VERINA Engineering, P.C.

2017 REMEDIAL ACTION PROGRESS REPORT

FORMER DOVER ELECTRONICS SITE
KIRKWOOD, NEW YORK
NYSDEC SITE NO. 7-04-026



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INTRODUCTION

On behalf of Dover Corporation (Dover), Verina Engineering, P.C. (VERINA) has prepared this Remedial Action Progress Report (RAPR) for the remedial activities conducted in 2017 at the former Dover Electronics site in Kirkwood, Broome County, New York, New York State Department of Environmental Conservation (NYSDEC) Site No.: 7-04-026. The work was implemented in accordance with the Record of Decision of March 2000; the Order on Consent executed on January 19, 2001; and the Record of Decision Amendment of March 2014.

The remedial activities implemented in 2017 include:

- In-Situ Chemical Oxidation (ISCO) remedial system operation and maintenance (O&M) activities;
- ISCO performance groundwater monitoring;
- Redevelopment of several monitoring and injection wells on-site;
- Active sub-slab depressurization (ASD) system O&M activities;
- Annual indoor air sampling; and,
- Inspection and maintenance of the engineering controls associated with the environmental Deed Restriction areas.

These activities were implemented in accordance with the scope-of-work in the February 2011 Final ISCO Construction Package submitted by ARCADIS of New York, Inc. (ARCADIS) (ARCADIS 2011a) and subsequent approvals from the NYSDEC.

SITE HISTORY AND BACKGROUND

The former Dover Electronics site is located at 29 Industrial Park Drive, Kirkwood, Broome County, New York. The facility is located on approximately 9.58 acres in an industrial setting and consists of an industrial building with associated parking areas. The site is presently occupied by Modern Marketing Concepts, Inc. (MMC). A regional site location map and a site plan are shown on Figures 1 and 2, respectively.

The site had served as one of Universal Instruments Corporation's (UIC) service facilities for product training, research and development, and Odd Form Assembly (OFA), which involves the engineering and assembly of non-standard/specialty circuit boards until 2007. In 2007 the facility was sold to MMC, which handles outsourced customer service and product ordering for other companies.

Several remedial investigations (RIs) at the site have been conducted since the 1990s. The RIs indicated that soil, groundwater, surface (storm) water and indoor air have been impacted by volatile organic compounds (VOCs), including tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-

dichloroethene (1,2-DCE), and vinyl chloride (VC). The RI results have been discussed in the Site Management Plan (SMP) dated February 2011 by ARCADIS (ARCADIS 2011b).

SOIL OPERABLE UNIT

The site soil was remediated in accordance with the NYSDEC-approved Remedial Design (RD) Package prepared by Blasland, Bouck and Lee, Inc. (BBL) in June 2003 (BBL 2003). The following is a summary of the remedial actions performed at the site to address the impacted soil:

- Removal of PCE-impacted soils from seven isolated areas beneath and adjacent to the facility building in June and July 2003;
- Abandonment and replacement of the roof leader from the roof drain system that handles storm water runoff from the front part of the roof for the original building section of the facility;
- Extension of the storm water outfall from the southwest catch basin (CB-1547);
- Construction of a soil cap system to eliminate the potential for human contact with fill material and remaining contaminated soil, and eliminate the potential for soil erosion and contaminated soil and storm water runoff from the property;
- Installation of an ASD system in 2003 to address indoor air quality within the facility building;
- Execution and recording of a Deed Restriction for the areas beneath the footprints of the 1978 and 1984 building additions, areas beneath parts of the original building (1973) and the 1982 addition, and for seven additional areas where complete removal of soil to below the NYSDEC criterion for PCE was not achieved. The Deed Restriction also included a restriction on using site groundwater; and
- Development and implementation of a Soil Management Plan for long term management of remaining contamination as required by the Deed Restriction.

GROUNDWATER OPERABLE UNIT

After a former aboveground 5,000-gallon flux tank that contained PCE was dismantled in March 1993, a groundwater extraction program was implemented as an Interim Remedial Measure (IRM). Recovery wells (RW-1 and RW-2) were installed near the former PCE tanks located at the rear of the facility building and the interim groundwater treatment system became operational in August 1994. The system operated on a limited schedule and it was shut down and abandoned in 1996. This IRM may have removed up to 12,000 gallons of groundwater. Another recovery well, RW-3, was installed in 1997 adjacent to monitoring well MW-7A as part of a second IRM groundwater extraction and treatment using granulated activated carbon (GAC). This groundwater extraction and treatment system was in operation from April 1998 through December 1998 and was intended to help control the migration of

the dissolved-phase PCE plume. During this time, approximately 41,000 gallons of groundwater were extracted from well RW-3.

The groundwater remediation-by-extraction attempts were unsuccessful because of the tight nature of the subsurface glacial till and the corresponding very low transmissivity across the site. For this reason two field pilot tests were conducted as part of an alternative groundwater remediation field study. These field tests consisted of an enhanced bioremediation field study and an ISCO field pilot testing. Enhanced biodegradation of PCE in the source area was found to have limited overall effectiveness while ISCO found to be much more effective in remediating the constituents of concern (COCs) in groundwater.

ISCO field testing using sodium permanganate was proposed in the September 2004 Groundwater Bioremediation Progress Report (GBRPR) by BBL for the remaining residual COCs within the central part of the groundwater plume. Sodium permanganate is a proven oxidizer of chlorinated ethenes and has a very high water solubility allowing high dissolved concentrations of the oxidant to be introduced into the aquifer. The field test objective was to reduce the PCE concentration within the area defined by the 1,000 micrograms per liter (µg/L) isoconcentration contour line as presented in the September 2004 report.

Three phases of ISCO field tests were conducted between 2005 and 2008 at the site to evaluate the effectiveness of ISCO using sodium permanganate as a full-scale groundwater remedy. The results of ISCO field tests indicated that the permanganate is effective at reducing the concentration of COCs in groundwater. A full-scale ISCO groundwater remedy using sodium permanganate was implemented in November 2011.

CURRENT REMEDIAL ACTIVITIES

ISCO was proposed as a full-scale remedy for the remaining residual COCs within the central part of the groundwater plume in the October 2007 Final Groundwater Remediation Progress Report (GRPR) submitted by ARCADIS (ARCADIS 2007) and was conceptually approved by NYSDEC in an e-mail to ARCADIS dated March 25, 2009. A full-scale ISCO Design Report (ARCADIS 2010) and ISCO Construction Package (ARCADIS 2011a) were prepared and submitted by ARCADIS to provide detailed scope of work, design, and operation specifications for the full-scale ISCO treatment system. The full-scale ISCO groundwater remedy was initiated in November 2011 and consisted of the injection of a 5% (by weight) solution of sodium permanganate by a gravity-feed system in the source area along with manual injection downgradient of the source area and associated groundwater performance monitoring. In March 2014, Record of Decision Amendment was issued by the NYSDEC including ISCO as the remedy to remediate the residual COCs in groundwater at the site.

In addition, Engineering Controls (EC) and Institutional Controls (IC) for the site have also been incorporated into the remedial program. The ECs include an ASD system and soil capping system to control exposure to remaining COCs in soils at the site and to ensure protection of public health and the environment. The ECs are inspected monthly to ensure that they are properly maintained and

operated. The IC for the site, which places restrictions on site use, is a Deed Restriction which was granted by the NYSDEC and recorded with the Broome County Clerk for the site. The Deed Restriction is in compliance with the approved SMP (ARCADIS 2011b).

At the end of 2013, permanganate solution was found to be leaking from the injection piping network of the ISCO system (VERINA 2014a). After remediating the release of the permanganate solution at the site and considering the effectiveness of the gravity-feed system, the use of the ISCO gravity-feed system was suspended. With NYSDEC's approval, monthly manual injections at selected injection points within the impacted groundwater area were implemented in 2014 to replace the gravity feed approach and continue the ISCO remedy. Since that time, all injection activities were performed via manual injection into select wells utilizing a 10% (by weight) sodium permanganate solution.

ISCO SYSTEM OPERATION, MAINTENANCE, AND MONITORING

The use of the gravity-feed system was suspended in January 2014 and a manual injection program was established in its place. During 2017, injection wells and points received a 10% by weight sodium permanganate oxidant solution. The 10% permanganate solution is stored on-site in the 6,500-gallon aboveground storage tank (AST). As outlined in the SMP (ARCADIS 2011b), the effectiveness of the ISCO remediation is being assessed by groundwater monitoring in both the source and downgradient areas.

ISCO INJECTION

This manual injection program utilizes a total of 19 injection wells and points in the source area and three injection points in the Pilot Truck Stop area. A summary of the wells and points and volumes of ISCO solution injected during 2017 is presented in Table 1. One of the injection wells, IJ-9, was proposed for use in the injection program but was not injected into during 2017 due to the high water table encountered at this well through the year.

Approximately 1,000 gallons of 10% permanganate ISCO solution was injected into these wells on a monthly basis except for the months of March 2017 and December 2017. Only 200 gallons of the ISCO solution was injected in March and only 600 gallons were injected in December due to the wintry conditions and freezing temperatures encountered at the site during both events. Therefore, during the April 2017 injection event, a total of 1,400 gallons of ISCO solution was injected to partially make-up for the limited injection amount from March 2017. Since the November 1, 2011 initiation of the ISCO remediation, approximately 67,635 gallons of sodium permanganate solution have been injected into the subsurface at the site, including approximately 11,200 gallons injected during 2017. The 2017 manual injection logs are enclosed in Appendix A.

GROUNDWATER MONITORING PROGRAM

Site-Wide Groundwater Elevation Measurements

Groundwater elevation measurements were collected in March and September 2017, prior to each month's respective sampling events, from all accessible on-site monitoring wells and points to assess the groundwater flow direction at the site. The groundwater elevations from March and September 2017 are summarized in Tables 2 and 3, respectively. Groundwater elevation isocontour maps for the shallow aquifer for March and September 2017 are presented on Figures 3 and 4, respectively, and those for the intermediate aquifer for March and September 2017 are presented on Figures 5 and 6, respectively.

The groundwater elevation isocontour maps indicated the groundwater flow direction for the shallow aquifer within the glacial till to be from the northeast towards the southwest in both March and September 2017, which is consistent with historical measurements. As for the intermediate aquifer, the groundwater flow for both March and September 2017 was also towards the southwest and is also consistent with historical measurements.

Well Redevelopment

In 2016 and 2017, VERINA personnel noted decreased injection rates at several select wells and, in response, conducted redevelopment activities at these wells. The purpose of the well redevelopment activities was to remove either sediment/solid material that had accumulated at the bottom of the well and/or break up and remove potential accumulated solids from the well screen and/or filter pack assumed to have been generated by chemical reactions during the injection activities. It was hoped that the redevelopment effort would enhance the hydraulic connectivity of the well to the aquifer and allow for more efficient injections. The redevelopment was accomplished by using a down-hole submersible pump and surging of the well. All purge water and solid material generated during the development activities were containerized in 55-gallon drums. In January 2017, VERINA performed redevelopment at well MW-25. Several months after this redevelopment activity, VERINA personnel noticed the injection rate at MW-25 had again decreased as well as that of several other wells. In October of 2017, VERINA conducted another redevelopment activity at wells MW-25, MW-7A, MP-12, MW-28, MW-24, MW-12, and MP-14. Since October 2017, the injection rate at MW-25 has decreased yet again.

Baseline Groundwater Monitoring

Prior to the initiation of the ISCO remediation, baseline groundwater conditions were established by the March 2010 site-wide groundwater sampling event (ARCADIS 2011c). The monitoring points MP-11, MP-12, MP-13, and MP-14 and injection well IJ-10 were sampled on October 28, 2011 to be part of the baseline groundwater conditions as they were installed after March 2010. The baseline groundwater samples were collected in accordance with the final In-Situ Chemical Oxidation Construction Package (ARCADIS 2011a). Details of the baseline groundwater sampling events are provided in the Groundwater Baseline Monitoring Report (ARCADIS 2011c). The baseline groundwater sampling results, as well as the historic sampling results, is summarized in Table 4.

In addition to the groundwater data collected during the baseline groundwater sampling events in March 2010 and October 2011, baseline field parameter data were collected from wells that were anticipated to show the arrival of injection solution within the first 90 days. Monitoring wells and points MP-4, MP-5, MP-6S, MP-6D, MW-7A, and injection wells IJ-1, IJ-4, and IJ-10 were used to establish the site baseline for field parameters. The field parameters collected included ORP, specific conductivity, and pH on October 31 and November 1, 2011 prior to initiation of ISCO infiltration. Field parameters were collected at 2-foot intervals using a down-hole water quality instrument at all selected monitoring wells and injection points except those points with 1" diameter casing. For the 1" diameter monitoring points, field parameters were recorded after one well volume was purged. Given that the water color was clear, no permanganate or manganese testing was conducted in the field. The baseline field parameters are provided in the vertical profiling monitoring logs in Appendix B.

Post-Injection Groundwater Monitoring

Groundwater performance monitoring (vertical profiling) was discontinued in 2017 is accordance with VERINA's 2016 RAPR.

Groundwater sampling occurred at both the source area and the Pilot Truck Stop area semi-annually in March and September 2017 in accordance with the schedule presented in Table 5. MP-11 was not sampled in March as several feet of snow and ice had been plowed on top of that well and was present during the sampling event. All of the groundwater sampling activities were performed following the same procedures utilized for the baseline groundwater sampling events. The samples were submitted to ALS Environmental of Rochester, New York for SSPL VOCs analysis. The groundwater sampling logs are presented in Appendix C.

Groundwater samples from those monitoring wells which had exhibited residual permanganate, as indicated by a pink or purple color of the purge water, were collected in laboratory-provided unpreserved vials pre-charged in the field with sodium thiosulfate. The sodium thiosulfate was added to neutralize the residual permanganate in the water as it may influence the performance of the laboratory's analytical instruments. The wells with pink or purple purge water also had their residual sodium permanganate concentration analyzed for in the field immediately subsequent to site-specific parameter list (SSPL) VOC sampling using a Hach® DR890 or DR2800 colorimeter. A summary of the residual sodium permanganate groundwater concentrations is presented in Table 6.

Groundwater Sampling Analytical Results

Analytical results for SSPL VOCs for the baseline through September 2017 sampling events are summarized in Table 7. The distribution of the PCE concentration in the shallow aquifer and in the intermediate aquifer detected during the September 2017 sampling event is shown on Figure 7 and Figure 8, respectively. The total molar concentration of PCE and daughter compounds detected in groundwater during the September 2017 sampling event is depicted on Figure 9 for the shallow aquifer and on Figure 10 for the intermediate aquifer. The laboratory data packages for the March and September 2017 groundwater sampling events are included in Appendix D. The electronic data deliverables (EDDs) for these groundwater sampling events were previously submitted to NYSDEC and are included as a separate submission on disk.

In comparing the September 2017 groundwater PCE plume maps (Figures 7 and Figure 8) and the total molar concentration of PCE and daughter compounds plume maps (Figures 9 and 10) to the baseline sampling plume maps presented in VERINA's 2012 RAPR (VERINA 2013) and to the September 2016 groundwater plume maps presented in VERINA's 2016 RAPR (VERINA 2017), the following observations are made:

- COC concentrations have generally decreased or remained stable in the shallow aquifer between 2016 and 2017. Decreasing concentration trends for PCE and its daughter products between 2016 and 2017 were noted at several source zone shallow aquifer wells, including MW-7A, MW-13, MW-24, MP-4, MP-5 and MP-14 and several shallow aquifer wells, including MW-19, MW-27 and MW-28 located at Pilot Truck Stop area.

- In comparing the 2016 and 2017 groundwater results, COC concentrations in the intermediate aquifer have generally decreased or remained stable. A decreasing concentration trend for PCE

and its daughter products was noted at MP-6D and MW-38 within the source area intermediate aquifer, and at MW-25, MW-26 and MW-37 within the Pilot Truck Stop area.

- The lateral extent of the COC plume has decreased since the ISCO implementation at the site for both shallow and intermediate aquifers. The concentrations of residual COCs in groundwater are also decreasing in both shallow and intermediate aquifers. As an example, PCE concentration trend analysis for both the shallow and intermediate aquifers at the site is presented in Figure 11.

- The mass reduction of COCs in groundwater in the shallow and intermediate aquifers was estimated at about 93% and 78%, respectively, since the full-scale ISCO remedy was implemented in November 2011. This represents an additional mass reduction of COCs in the shallow and intermediate aquifers of approximately 2% and 23%, respectively, between 2016 and 2017.

ENGINEERING AND INSTITUTIONAL CONTROLS COMPLIANCE

In accordance with the approved Operations, Maintenance, and Monitoring (OM&M) Plan (ARCADIS 2005), engineering and institutional controls (EC/IC) at the site were inspected monthly from January through December 2017, including

- Inspection of the ASD system operation and condition;
- Inspection of the soil and asphalt caps placed over former excavation areas where residual PCE-affected soils above NYSDEC standards remain; and
- Collection and analysis of annual indoor air samples.

SOIL AND ASPHALT CAP INSPECTIONS

The soil and asphalt caps placed over those areas where PCE-affected soil remains in place above NYSDEC standards (Figure 12) were inspected once per month by VERINA in 2017. The monthly inspections indicated that the engineering controls were in good condition. VERINA's 2017 cap inspection logs are provided in Appendix E.

ASD SYSTEM INSPECTIONS

The ASD system was installed in the MMC building in June 2003 to mitigate the adverse effects on indoor air quality caused by vapor intrusion. In December 2014, MMC initiated building renovations which required the relocation of two sub-slab depressurization points (ASD-2 and ASD-3). The proposed modification plan to the ASD system was approved by NYSDEC on December 11, 2014. The ASD modification work was summarized in VERINA's 2014 Annual Remedial Action Progress Report, submitted in January 2015. Additionally, during the ASD inspection of May 2015, it was discovered that three depressurization points, ASD-3 through 5, had no observed vacuum and that the fan which was connected to these points was not operating. In response, VERINA replaced the ASD fan and the ASD system was restarted on June 9, 2015.

The ASD system was checked once per month in 2017 to verify that the system was running properly and that the system was in good operating condition. The monthly inspections indicated that the system is operating as designed, is running satisfactorily, and that the ASD system vacuum readings collected in 2017 were consistent with the system data collected in 2016. The ASD system will continue to be monitored monthly to ensure proper operation of the system. The ASD Inspection Log showing the monthly ASD system inspection and vacuum readings is presented in Appendix F.

ANNUAL INDOOR AIR MONITORING

Indoor air sampling was conducted in March 2017 as part of the indoor air monitoring program. The indoor air sampling was conducted in accordance with the approved OM&M Plan (ARCADIS 2005) and Remedial Design Package (BBL 2003).

Indoor air samples were collected at the seven sampling locations within the facility building where facility employees regularly work or where SSPL VOC vapors were detected in previous sub-slab samples. The sampling points were labeled according to their location and are shown on Figure 13.

Four sampling points were located in the main building - two sampling points in the primary cubicle area (Office Area #1 and Office Area #2) and two points in Hallway and Cafeteria areas (former cafeteria for Universal Instruments Corporation, but now a work area). There were three sampling points in the rear additions, where construction renovation work was occurring at the time of sampling - one by the HVAC equipment (A/C Area), one by the electrical switch gear (Electrical Area), and one in the former computer server room (Computer Services) which is now used for general storage including some various cleaning chemicals and paints. An outdoor background sample was also collected by the buildings HVAC air intakes. Air samples were collected in stainless steel Summa canisters and shipped to Eurofins Laboratory of Lancaster, Pennsylvania for VOC analysis by USEPA Method TO-15.

The analytical results of the indoor air samples indicated that all detected compound concentrations were below their respective New York State Department of Health (NYSDOH) guidance values. The analytical results of the March 2017 indoor air sampling event are summarized in Table 8. Historical indoor air sampling results are presented in Table 9. A copy of the laboratory data package for the March 2017 indoor air sampling event is provided in Appendix G. The EDDs for the indoor air sampling event have previously been submitted to the NYSDEC and are included as a separate submission on disk.

CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

Based on the remediation status to date, the following conclusions are made:

- Ongoing groundwater elevation measurements indicate the direction of groundwater flow in both the shallow and intermediate aquifers remains consistent with the previously observed groundwater flow direction.

- The groundwater monitoring results indicate that the COCs in groundwater continue to be contained at the site without further migration.

- The total PCE concentration and the total molar concentration of PCE and its daughter compounds have generally decreased or remained stable in both the shallow and intermediate aquifers as compared to the 2016 data, with the largest reductions being observed in the intermediate aquifer.

- Monitoring of the COC concentrations indicate that the ISCO remedy is reducing the COC mass in both the source area and the Pilot Truck Stop area. The overall decrease in COC mass in both the shallow and intermediate aquifers indicate that the ISCO application is effective for the reduction of COC mass in both aquifers at the site. To date, the mass reduction of COCs in the shallow and intermediate aquifers is estimated to be about 93% and 78%, respectively, since the full-scale ISCO remedy was implemented in November 2011. This represents an additional mass reduction of COCs in the shallow and intermediate aquifers of approximately 2% and 23%, respectively, between 2016 and 2017.

- The analytical results of the annual indoor air sampling conducted in March 2017 indicate all detected compounds were below NYSDOH guidance values. The ASD system is therefore effective at mitigating indoor air COC concentrations.

- The EC/ICs at the site continue to be maintained in acceptable condition.

RECOMMENDATIONS FOR ISCO SYSTEM OPERATION

Based on the conclusions presented above and additional analysis of the site conditions, the following recommendations are proposed for the remedial activities in 2018:

- Due to the ongoing, persistent decrease in injection rate at MW-25, VERINA has concluded this well may have a malfunctioning or damaged well screen or filter pack. Therefore, VERINA recommends properly abandoning and reinstalling this well prior to the March 2018 sampling event.

- VERINA recommends continuing monthly manual injection events in 2018. The wells selected for manual injection will include: IJ-1, IJ-2, IJ-4, IJ-5, IJ-6, IJ-7, IJ-8, IJ-10, MW-7A, MW-16, MW-24, MW-25, MW-28, MP-4, MP-5, MP-8S, MP-11, MP-12 and MP-14. Two additional wells have been included into the planned 2018 injection events as compared to previous years – MP-8S and IJ-5. VERINA plans to inject a total of 1,000 gallons of ISCO solution per injection event.

- Based on review of the site data, ISCO injections will continue utilizing a 10% sodium permanganate solution in 2018, mixing and storing the solution in the AST at the site.

RECOMMENDATIONS FOR THE ASD SYSTEM & ENGINEERING CONTROLS

- In 2018, VERINA will continue the monitoring, sampling and analysis program for the ASD system to assure continued, proper operation; and,

- VERINA will continue the monthly inspection of the site engineering controls and will perform maintenance on the soil caps/covers on an as-needed basis, if conditions warrant such work.

RECOMMENDATIONS FOR SITE GROUNDWATER MONITORING & SITE REPORTING

During 2018 VERINA will perform the following groundwater sampling and monitoring programs:

- Continue to conduct semi-annual groundwater sampling event (March 2018) and annual groundwater sampling event (September 2018) at selected monitoring wells to assess the performance of the ISCO system and to aid in defining the extent of the COC plume. The selected wells to be sampled during the semi-annual and annual groundwater sampling events are summarized in Table 10.

- Remedial action progress reporting will continue for the site in 2018 as follows:

    - One semi-annual progress report will be prepared and submitted in July 2018 to provide a brief update on the site conditions and groundwater monitoring results and will identify any significant occurrences. This reports will be submitted via electronic mail; and,

- In January 2019, an annual report will be submitted to NYSDEC capturing all details of the activities performed and data collected in 2018 for the site. This report will also include conclusions and recommendations for future site activities in 2019.

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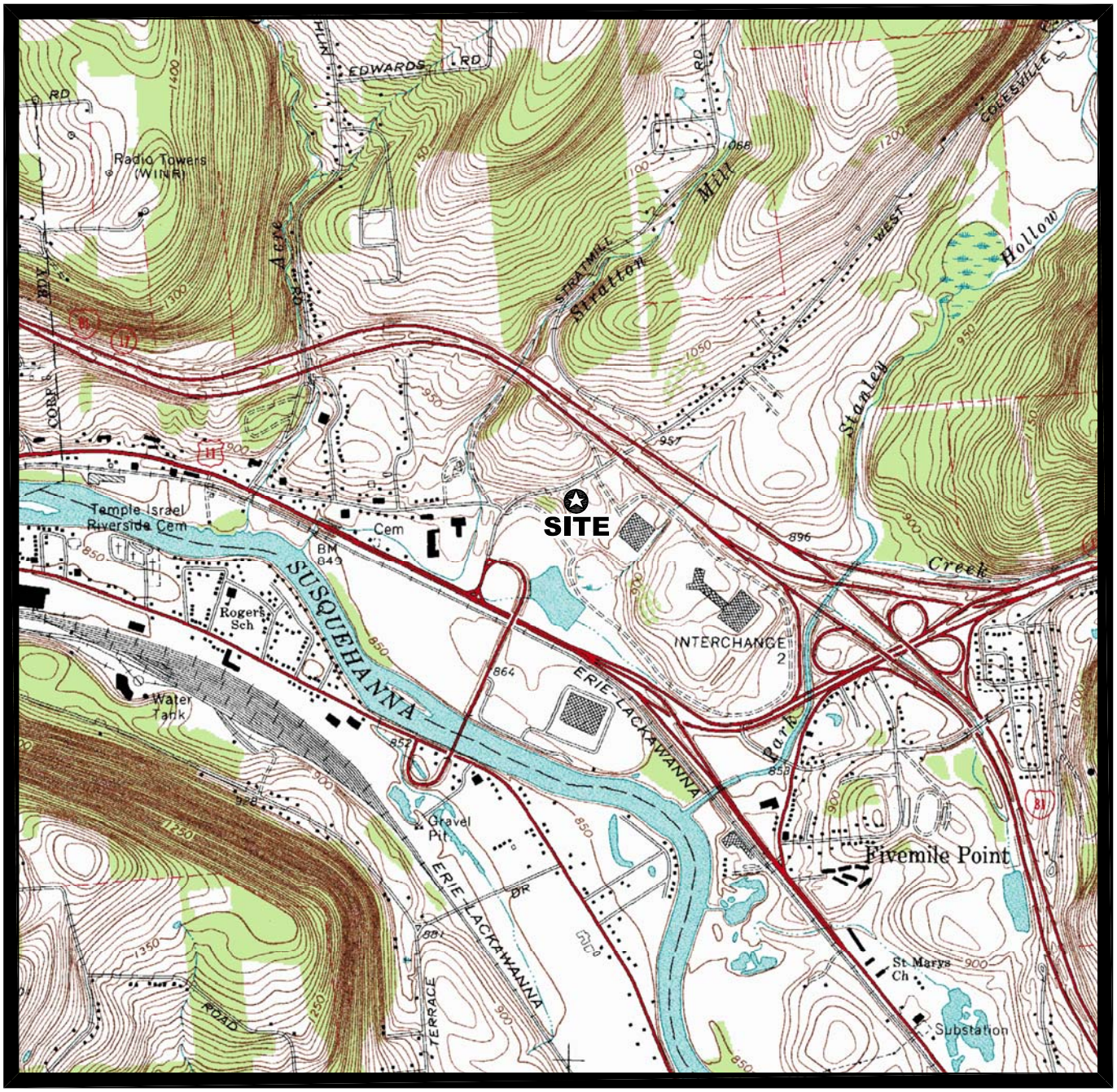
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Figures



BINGHAMTON EAST QUADRANGLE
7.5–MINUTE SERIES

N

0 2000
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

REGIONAL LOCATION MAP

VERINA Engineering, P.C.

1

N

MW-15
MW-21
MW-16
MW-5
MW-17
MW-2
MW-38
MW-18
MW-26
MW-19
MW-27
MW-30
MW-37
MW-31
MW-35
MW-32
MW-36
MW-3
MW-22
MW-20
MW-24
MW-28
MW-25
MW-34
MW-7A
MW-7
MW-29
MW-8
MW-6
MW-9
MW-14
MW-1
MW-23
MW-4
MW-10
MW-13
MW-12
MW-11
BUILDING

MP-2 (to approx. 45ft)
MP-1 (to approx. 45ft)
(to approx. 75ft) MP-3D
MP-11
MP-4
MP-12
MP-5
MP-13
MP-14
MP-6S
MP-6D (to approx. 55ft)
MP-7
MP-9
MP-8S
MP-10D (to approx. 55ft)
MP-10S
MP-8D (to approx. 55ft)

IJ-7
IJ-2
IJ-8
IJ-3
IJ-9
IJ-4
IJ-10
IJ-1
IJ-5
IJ-6

CABLE GUIDE RAIL
GRAVEL ROAD
PAVED SHOULDER

EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-6 — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW-INTERMEDIATE INJECTION WELL

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

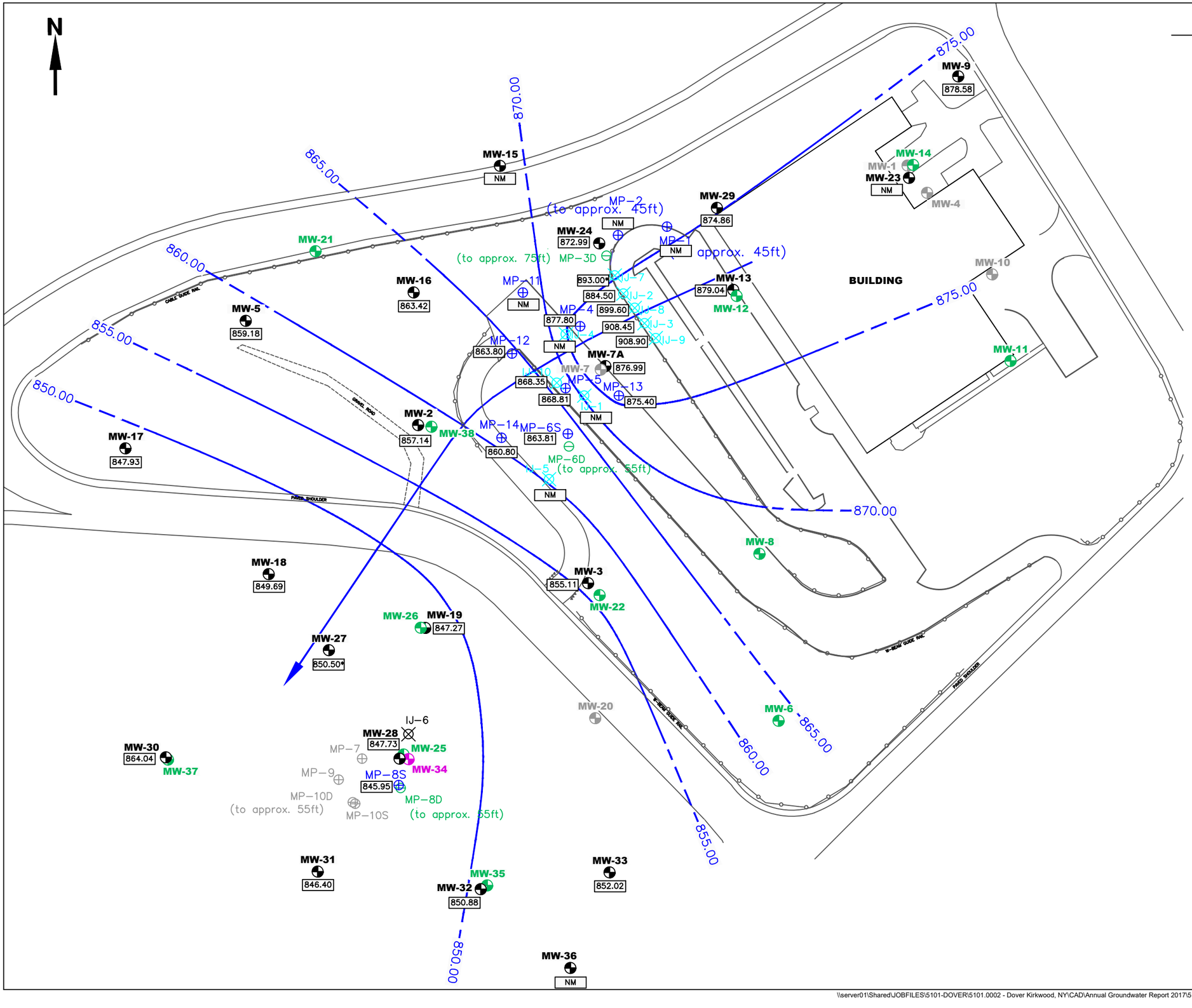
0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

SITE MAP WITH MONITORING WELL LOCATIONS

VERINA Engineering, P.C.

2



EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-1** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-6** — DESIGNATION AND LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND LOCATION OF DEEP MONITORING WELL

876.88 GROUNDWATER ELEVATION (FT., MSL)

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

ARROW INDICATES GENERALIZED GROUNDWATER FLOW DIRECTION

CONTOUR INTERVAL = 5.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.025 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED
3) * = INDICATES RESULT NOT INCLUDED IN GENERATION OF ISOCONTOURS

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

0 110 FT.
APPROXIMATE SCALE

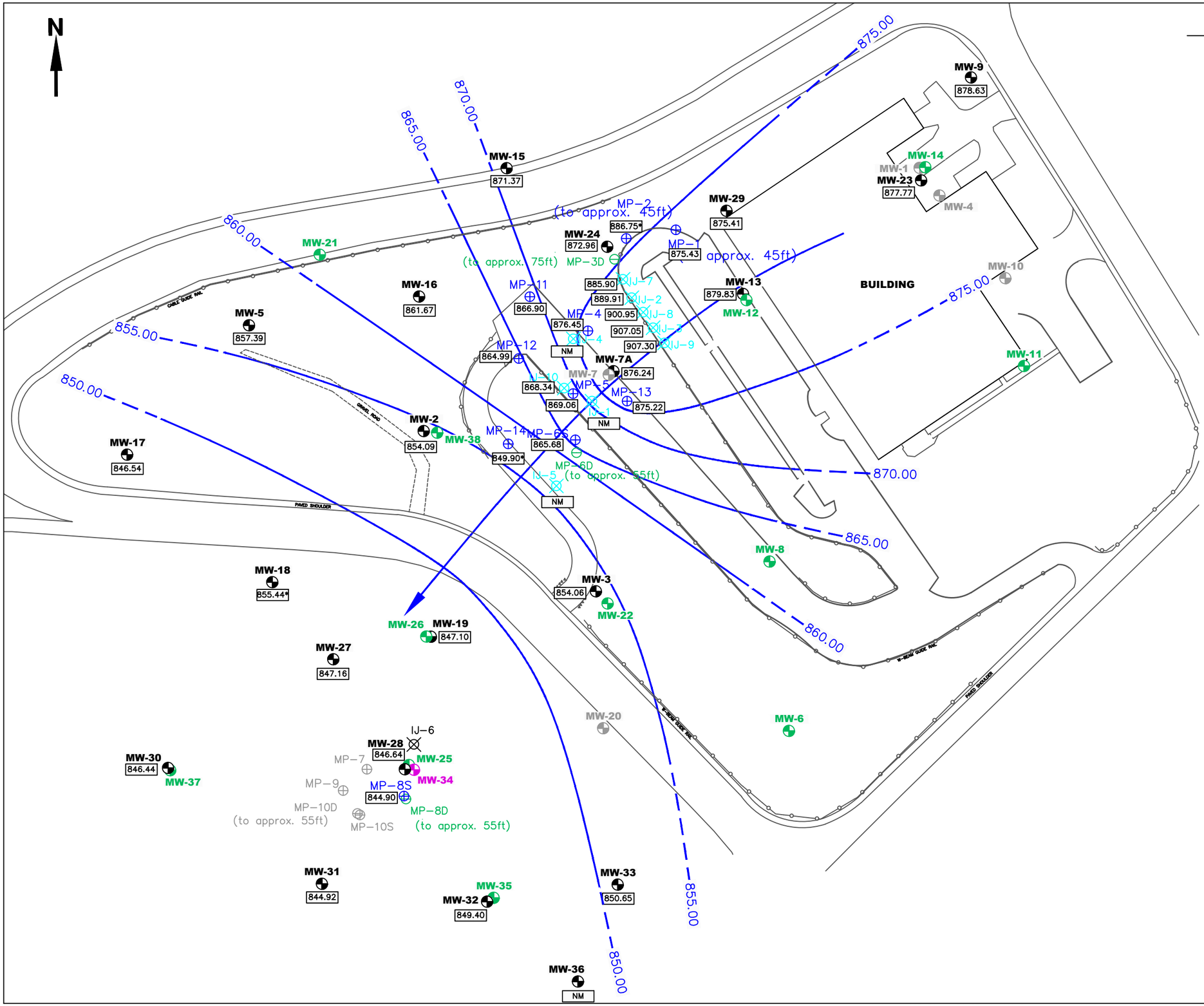
FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

SHALLOW GROUNDWATER ELEVATION ISOCONTOURS MARCH 2017

VERINA Engineering, P.C.

3

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EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- MW-6 — DESIGNATION AND LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND LOCATION OF DEEP MONITORING WELL

876.88 GROUNDWATER ELEVATION (FT., MSL)

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

ARROW INDICATES GENERALIZED GROUNDWATER FLOW DIRECTION

CONTOUR INTERVAL = 5.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.025 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED
3) * = INDICATES RESULT NOT INCLUDED IN GENERATION OF ISOCONTOURS

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

SHALLOW GROUNDWATER ELEVATION ISOCONTOURS SEPTEMBER 2017

VERINA Engineering, P.C.

4

\\server01\Shared\JOBFILES\5101-DOVER\5101.0002 - Dover Kirkwood, NY\CAD\Annual Groundwater Report 2017\5101.0002-Figure-004-ISO-SH-2017-01.dwg LAYOUT: ISO SAVED: 1/23/2018 11:16 AM BY: CLAUDIO STABILE

N

MW-15
MW-21
NM
MW-5
MW-16
MW-17
MW-2
MW-38
859.20
MW-18
MW-26
846.74
MW-19
MW-27
MW-30
MW-37
845.36
MW-31
MW-32
MW-35
845.64
MW-33
MW-36
MW-24
MP-3D
874.64
MP-2
(to approx. 45ft)
(to approx. 75ft)
MP-1
(to approx. 45ft)
MP-11
MP-4
MP-12
MW-7A
MW-7
MP-5
MP-13
IJ-10
IJ-1
MP-14
MP-6S
MP-6D
866.92
(to approx. 55ft)
IJ-5
IJ-7
IJ-2
IJ-8
IJ-3
IJ-9
MW-29
MW-13
MW-12
874.50
MW-9
MW-14
876.40
MW-1
MW-23
MW-4
BUILDING
MW-10
MW-11
887.97
MW-8
872.24
MW-3
MW-22
857.32
MW-20
MW-6
862.12
IJ-6
MW-28
MW-25
845.73
MW-34
MP-7
MP-9
MP-8S
MP-10S
MP-8D
(to approx. 55ft)
MP-10D
(to approx. 55ft)
845.50
875.00
880.00
870.00
865.00
860.00
855.00
850.00

EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW-INTERMEDIATE INJECTION WELL
- MW-6 — DESIGNATION AND LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND LOCATION OF DEEP MONITORING WELL

880.04 GROUNDWATER ELEVATION (FT., MSL)

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

CONTOUR INTERVAL = 5.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.031 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED
3) * = INDICATES RESULT NOT INCLUDED IN GENERATION OF ISOCONTOURS

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

INTERMEDIATE GROUNDWATER ELEVATION ISOCONTOURS MARCH 2017

VERINA Engineering, P.C.

5

N

MW-15
MW-21
NM
MW-5
MW-16
MW-17
MW-2
MW-38 MP-14
859.62
MW-18
MW-26 MW-19
845.59
MW-27
MW-30
MW-37
844.10
MW-31
MW-32
MW-35
844.47
MW-36
MW-24
MP-3D
874.64
MP-2
(to approx. 45ft)
(to approx. 75ft)
MP-1
(to approx. 45ft)
MP-11
MP-4
MP-12
MW-7A
MW-7
MP-5
MP-13
IJ-1
MP-6S
MP-6D
866.98
(to approx. 55ft)
IJ-5
IJ-10
IJ-7
IJ-2
IJ-8
IJ-3
IJ-9
MW-29
MW-13
MW-12
875.41
MW-9
MW-14
876.68
MW-1
MW-23
MW-4
MW-10
BUILDING
MW-11
879.91
MW-8
872.41
MW-3
MW-22
856.81
MW-20
MW-6
858.69
IJ-6
MW-28
MW-25
843.80
MW-34
MP-7
MP-9
MP-8S
MP-8D
(to approx. 55ft)
MP-10S
MP-10D
(to approx. 55ft)
844.30
MW-33
875.00
870.00
865.00
860.00
855.00
850.00
845.00
GRAVEL GUIDE RAIL
PAVED SHOULDER

EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- MW-6 — DESIGNATION AND LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND LOCATION OF DEEP MONITORING WELL

880.04 GROUNDWATER ELEVATION (FT., MSL)

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

CONTOUR INTERVAL = 5.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.031 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

INTERMEDIATE GROUNDWATER ELEVATION ISOCONTOURS SEPTEMBER 2017

VERINA Engineering, P.C.

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N

MW-15 ND

MW-21

MW-16 60

MW-5 44

MW-17 3.7

MW-2 4.0

MW-38

MW-18 ND

MW-26

MW-19 23

MW-27 1.3

MW-30 ND

MW-37

MW-31 ND

MW-32 ND

MW-35

MW-33 2.3J

MW-36 ND

MW-20 4

MW-28 ND*

MW-25

MW-34

MW-3 130

MW-22

MW-24 0.3

MW-29 ND

MW-9 ND

MW-14

MW-1

MW-23 ND

MW-4

MW-10

MW-13 19

MW-12

MW-11

MW-7A 6

MW-7 ND

MW-8

MW-6

BUILDING

MP-1 ND

MP-2 (to approx. 45ft)

MP-3D (to approx. 75ft)

MP-4 820

MP-5 7.8

MP-6S 280

MP-6D (to approx. 55ft)

MP-7 0.2J

MP-8S 26

MP-8D (to approx. 55ft)

MP-9 3

MP-10D (to approx. 55ft)

MP-10S ND

MP-11 7.7

MP-12 4.6

MP-13 ND

MP-14 26

IJ-1 ND*

IJ-2 15

IJ-3 10

IJ-4 ND*

IJ-5 ND*

IJ-6

IJ-7 NM

IJ-8 NM

IJ-9 NM

IJ-10 ND

2.5J

(to approx. 45ft)

5

10

100

101

CABLE GUIDE RAIL

GRAVEL ROAD

PAVED SHOULDER

T-BEAM GUIDE RAIL

EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- MW-6 — DESIGNATION AND LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND LOCATION OF DEEP MONITORING WELL

17 PCE CONCENTRATION IN ppb

- PCE > 5 ppb
- PCE > 10 ppb
- PCE > 100 ppb

NOTES:
1) PCE = TETRACHLOROETHENE
2) ppb = PARTS PER BILLION
3) * = SAMPLED BUT NOT INCLUDED IN ISOCONCENTRATION MAP
4) ND = NOT DETECTED
5) NM = NOT MEASURED
6) D = INDICATES RESULT OBTAINED FROM SAMPLE DILUTION
7) J = INDICATES ESTIMATED VALUE
8) ND INDICATES RESULT OBTAINED FROM HISTORIC DATA

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

ESTIMATED PCE ISOCONCENTRATION MAP SHALLOW AQUIFER SEPTEMBER 2017

VERINA Engineering, P.C.

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N

MW-15
MW-21 ND
MW-16
MW-5
MW-17
MW-18
MW-27
MW-26 29
MW-19
MW-30 MW-37 1.1
MW-31
MW-32 MW-35 ND
MW-33
MW-36
MW-20
MW-22 ND
MW-3
MW-8 ND
MW-6 ND
MW-24 ND
MW-29
MW-9
MW-14 15
MW-1
MW-23
MW-4
MW-10
MW-13
MW-12 ND
MW-11 ND
MW-7A
MW-7
MW-2
MW-38 98
MW-28 MW-25 ND
MW-34 ND

MP-2 (to approx. 45ft)
MP-1 (to approx. 45ft)
(to approx. 75ft) MP-3D
MP-11
MP-4
MP-12
MP-5
MP-13
MP-14
MP-6S
MP-6D (to approx. 55ft) 0.33
MP-7
MP-9
MP-8S
MP-8D (to approx. 55ft)
MP-10D (to approx. 55ft) ND
MP-10S

IJ-7
IJ-2
IJ-8
IJ-3
IJ-9
IJ-10
IJ-1
IJ-5
IJ-6

BUILDING

GIBBS RIDGE RD.
GRAVEL ROAD
PAVED SHOULDER

10
5

EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-6 — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL

17 PCE CONCENTRATION IN ppb

PCE > 5 ppb

PCE > 10 ppb

NOTES:
1) PCE = TETRACHLOROETHENE
2) ppb = PARTS PER BILLION
3) ND = NOT DETECTED
4) J = INDICATES ESTIMATED VALUE
5) 10 INDICATES RESULT OBTAINED FROM HISTORIC DATA

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

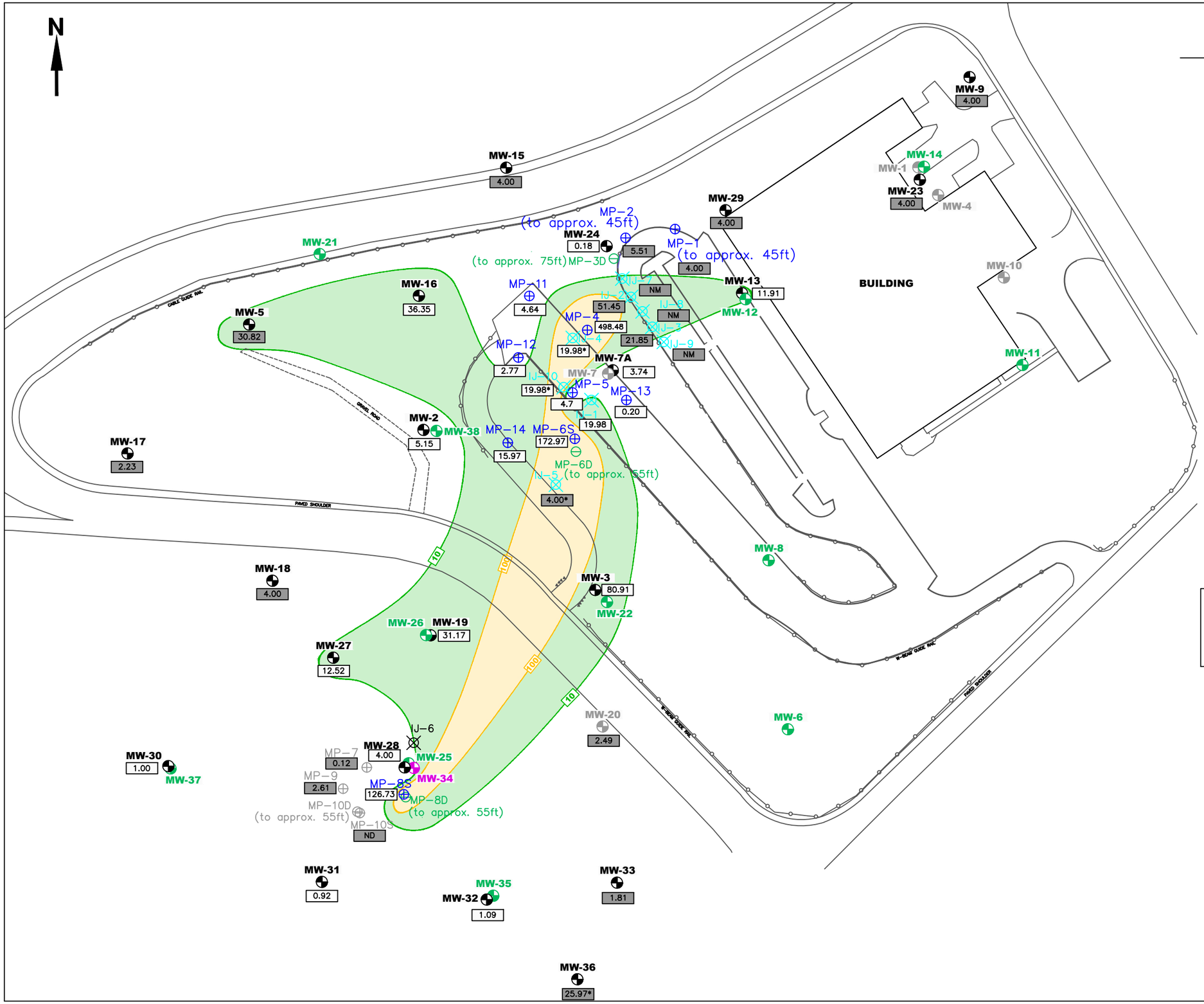
0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

ESTIMATED PCE ISOCONCENTRATION MAP INTERMEDIATE AQUIFER SEPTEMBER 2017

VERINA Engineering, P.C.

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EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- **MW-1** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL

4.0 MOLAR CONCENTRATION IN (mol x 10^8)/L

NOTES:
1) PCE = TETRACHLOROETHENE
2) DAUGTER COMPOUNDS INCLUDE TCE, 1,2–DCE AND VC
3) TCE = TRICHLOROETHENE
4) 1,2–DCE = 1,2–DICHLOROETHENE
5) * = SAMPLED BUT NOT INCLUDED IN ISOCONCENTRATION MAP
6) J = INDICATES ESTIMATED VALUE
7) NM = NOT MEASURED
8) VC = VINYL CHLORIDE
9) ND = NOT DETECTED
10) UNITS = (mol x 10^8)/L
11) IF RESULT CONCENTRATION IS BELOW REPORTING LIMIT (RL) AND REPORTING LIMIT IS ABOVE GWQS, ½ OF THE REPORTING LIMIT USED IN THE MOLAR CALCULATIONS. IF THE CONCENTRATION IS BELOW THE RL AND RL IS LESS THAN GWQS, 0 WAS USED IN THE CALCULATION.
12) GWQS = NYSDEC's GROUNDWATER QUALITY STANDARDS
13) ND INDICATES RESULT OBTAINED FROM HISTORIC DATA

MOLAR CONCENTRATION > 10 (mol x 10^8)/L

MOLAR CONCENTRATION > 100 (mol x 10^8)/L

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

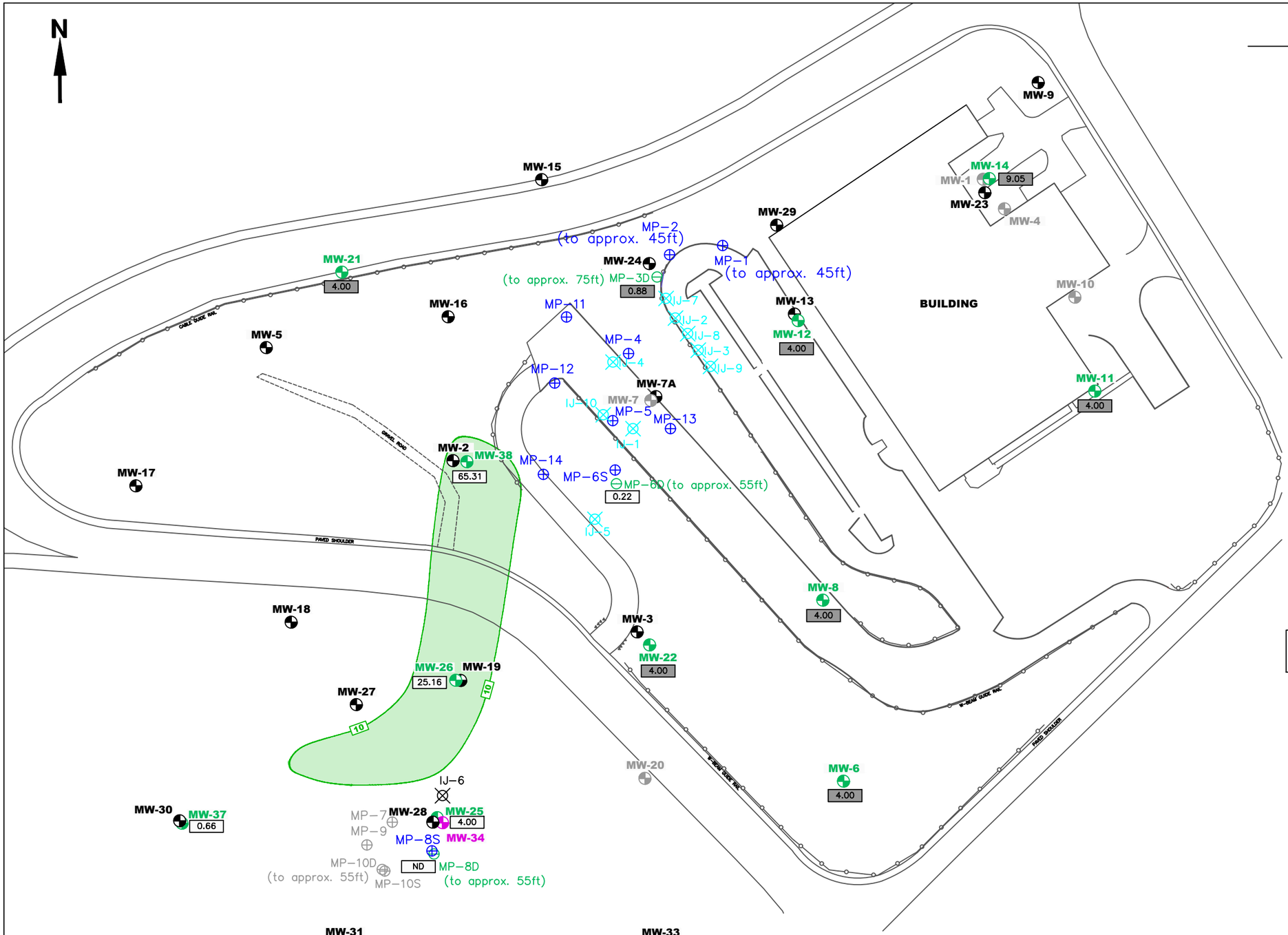
0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

ESTIMATED PCE AND DAUGHTER COMPOUND TOTAL MOLAR ISOCONCENTRATION MAP SHALLOW AQUIFER SEPTEMBER 2017

VERINA Engineering, P.C.

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EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-6 — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- 1.88 — MOLAR CONCENTRATION IN (mol x 10^8)/L

NOTES:
1) PCE = TETRACHLOROETHENE
2) DAUGTER COMPOUNDS INCLUDE TCE, 1,2–DCE AND VC
3) TCE = TRICHLOROETHENE
4) 1,2–DCE = 1,2–DICHLOROETHENE
5) VC = VINYL CHLORIDE
6) * = SAMPLED BUT NOT INCLUDED IN ISOCONCENTRATION MAP
7) ND = NOT DETECTED
8) J = INDICATES ESTIMATED VALUE
9) UNITS = (mol x 10^8)/L
10) IF RESULT CONCENTRATION IS BELOW REPORTING LIMIT (RL) AND REPORTING LIMIT IS ABOVE GWQS, ½ OF THE REPORTING LIMIT USED IN THE MOLAR CALCULATIONS. IF THE CONCENTRATION IS BELOW THE RL AND RL IS LESS THAN GWQS, 0 WAS USED IN THE CALCULATION.
11) GWQS = NYSDEC's GROUNDWATER QUALITY STANDARDS
12) 133.0 INDICATES RESULT OBTAINED FROM HISTORIC DATA

MOLAR CONCENTRATION > 10 (mol x 10^8)/L

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

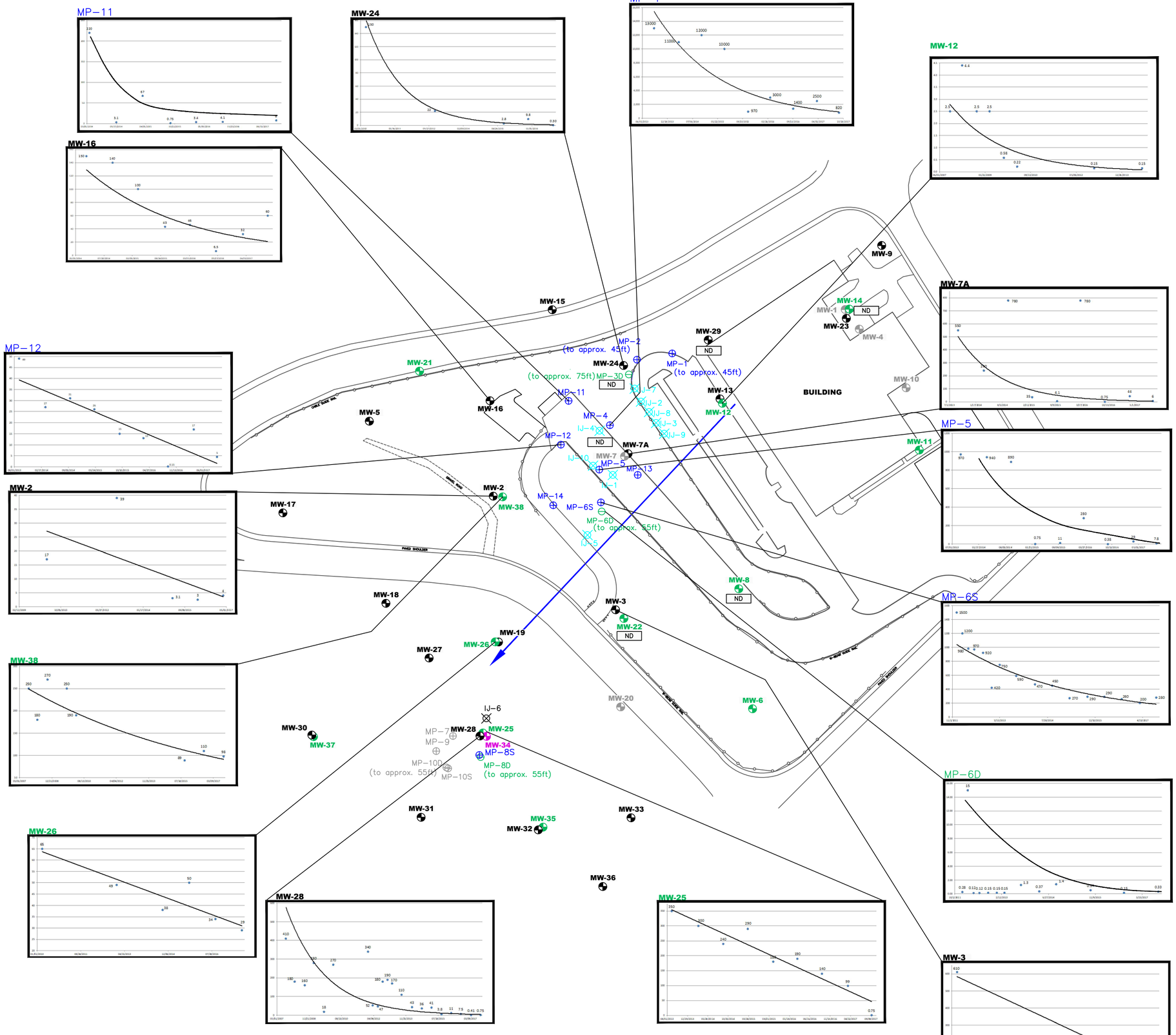
0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

ESTIMATED PCE AND DAUGHTER COMPOUND TOTAL MOLAR ISOCONCENTRATION MAP INTERMEDIATE AQUIFER SEPTEMBER 2017

VERINA Engineering, P.C.

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EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- **MW-1** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW-INTERMEDIATE INJECTION WELL
- GENERALIZED GROUNDWATER FLOW DIRECTION IN BOTH SHALLOW AND INTERMEDIATE AQUIFERS
- ND — NON-DETECT FOR PCE SINCE START OF INJECTONS

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE.* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

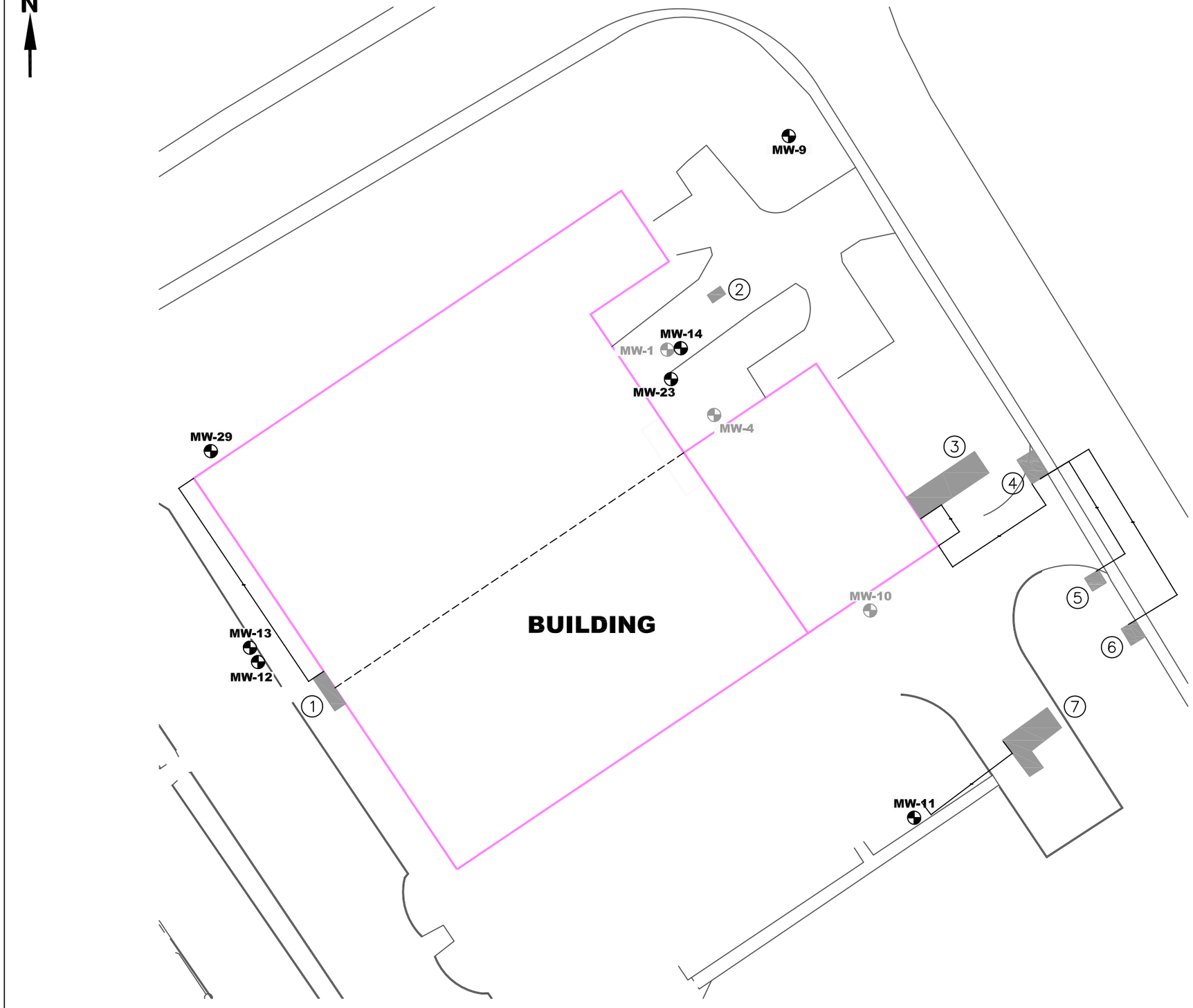
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APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

PCE TREND ANALYSIS IN SHALLOW AND INTERMEDIATE AQUIFERS

VERINA Engineering, P.C.

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EXPLANATION

MW-2 DESIGNATION AND APPROXIMATE LOCATION OF MONITORING WELL

MW-1 DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL

BUILDING DEED NOTICE AREAS

EXTERIOR DEED NOTICE AREAS

DEPTH TO PCE–AFFECTED SOIL

1. 4 FEET
2. 6 FEET
3. 8 FEET
4. 8 FEET
5. 5 FEET
6. 7 FEET
7. 3 FEET

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

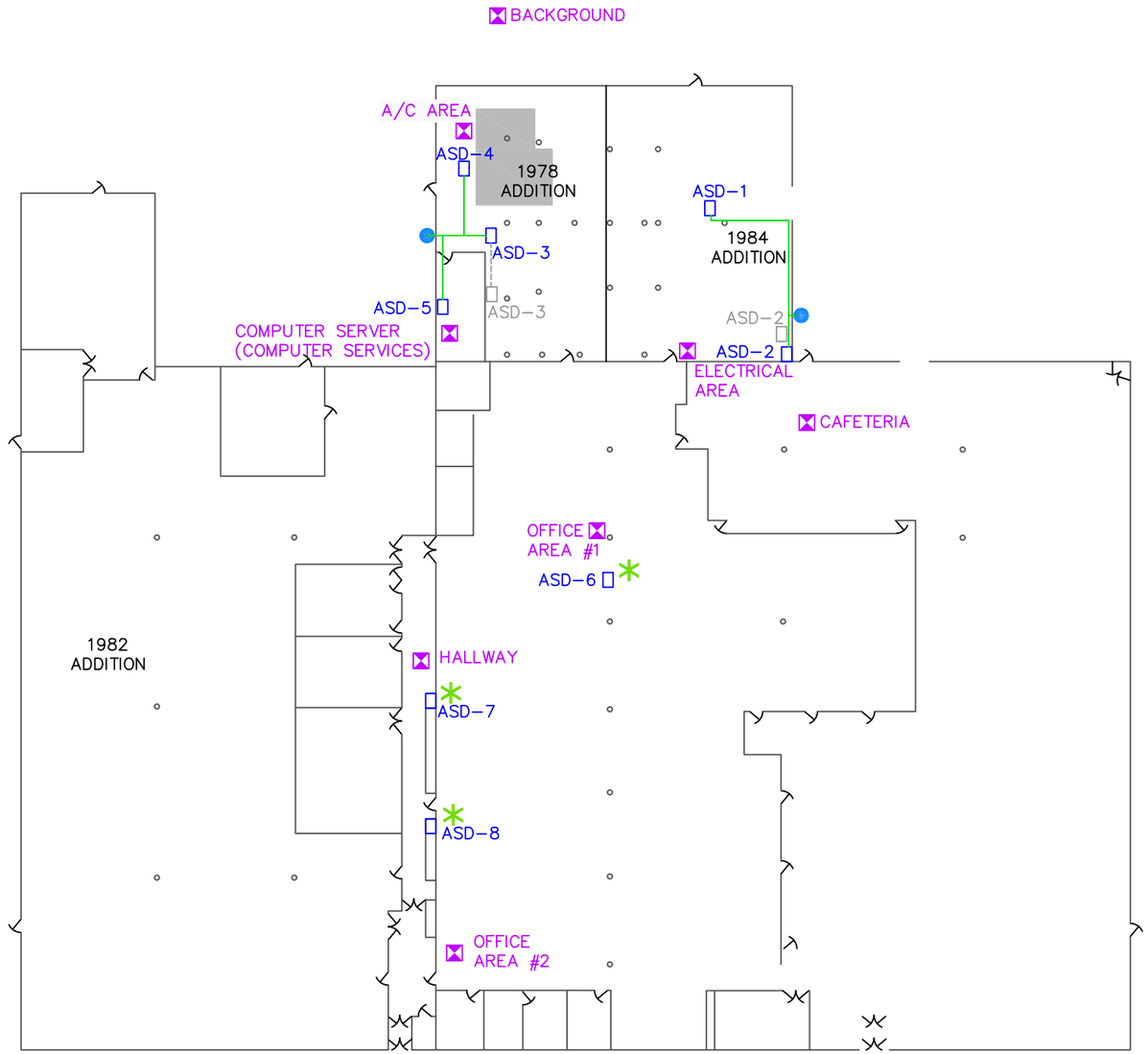
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APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

SOIL CAP AREAS

VERINA Engineering, P.C.

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N

EXPLANATION

- EXISTING SUB-SLAB DEPRESSURIZATION POINT LOCATION
- EXISTING ASD PIPING RUN
- PREVIOUS SUB-SLAB DEPRESSURIZATION POINT LOCATION
- PREVIOUS ASD PIPING RUN
- EXTERIOR FAN AND EXHAUST LOCATION
- VERTICAL BUILDING POST
- INACCESSIBLE AREA
- INDOOR AIR SAMPLING LOCATION AND DESIGNATION
- DEDICATED FAN LOCATED ON RISER PIPE

SOURCE:
BUILDING LAYOUT DIGITIZED FROM PHOTOCOPY OF DRAWING FAXED FROM UNIVERSAL INSTRUMENTS CORPORATION FACILITIES DEPARTMENT.
NO FILE NAME OR SCALE PROVIDED.

DRAWING NOT TO SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

ASD SYSTEM AND INDOOR AIR SAMPLING LOCATIONS

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S:\JOBFILES\5101-DOVER\5101.0002 - Dover Kirkwood, NY\CAD\Annual Groundwater Report 2017\5101.0002-Figure-013-ASD-00-Annual-GW-Report-2017.dwg LAYOUT: ASD-00 SAVED: 12/18/2017 12:21 PM BY: VERINAUSER

Tables

Table 1 ISCO Manual Injection Summary, January - December 2017, Former Dover Electronics Site, Kirkwood, New York

Injection Well ID	Injection Date(s)					
	January 11-12, 2017	February 21-23, 2017	March 24, 2017	April 10-12, 2017	May 10-11, 2017	June 19-22, 2017
	Volume Injected (gal)	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**
MW-7A	30	30	15	70	30	40
MW-16	80	80	0	155	120	120
MW-24	40	45	10	80	40	50
MW-25	291	275	20	290	230	120
MW-28	50	50	0	70	50	50
MP-4	70	50	15	90	70	70
MP-5	50	60	0	65	50	50
MP-11	5	5	0	10	5	10
MP-12	80	80	20	120	80	100
MP-14	50	50	10	50	50	50
IJ-1	50	60	20	110	50	73
IJ-2	35	41	35	70	33	22
IJ-3	0	0	0	0	0	0
IJ-4	7	10	0	5	0	15
IJ-6	100	100	15	95	100	110
IJ-7	7	0	15	0	20	30
IJ-8	5	4	5	10	2	5
IJ-9	0	0	0	0	0	0
IJ-10	50	60	20	110	70	85
Total Injected Volume (gal)	**1000**	**1000**	**200**	**1400**	**1000**	**1000**

NOTES:

gal = Gallons

ISCO injection solution is a 10% by weight sodium permanganate solution.

Table 1 (Continued) ISCO Manual Injection Summary, January - December 2017 - Former Dover Electronics Site, Kirkwood, New York

Injection Well ID	Injection Date(s)					
	July 11-13, 2017	August 22-24, 2017	September 19-20, 2017	October 25-26, 2017	November 14-15,2017	December 11-13, 2017
	Volume Injected (gal)	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**
MW-7A	40	40	45	30	30	30
MW-16	120	120	110	80	80	0
MW-24	55	50	55	40	40	40
MW-25	55	60	100	234	245	100
MW-28	50	60	50	50	50	50
MP-4	75	75	80	70	70	60
MP-5	50	65	70	50	50	0
MP-11	10	10	5	5	5	5
MP-12	110	95	90	80	80	80
MP-14	50	55	50	50	50	0
IJ-1	100	65	70	60	70	45
IJ-2	40	65	40	36	32	35
IJ-3	2	0	0	0	0	0
IJ-4	11	10	10	10	0	10
IJ-6	105	102	110	100	100	60
IJ-7	33	47	35	33	26	30
IJ-8	4	0	10	12	5	10
IJ-9	0	0	0	0	0	0
IJ-10	90	81	70	60	67	45
Total Injected Volume (gal)	**1000**	**1000**	**1000**	**1000**	**1000**	**600**

NOTES:

gal = Gallons

ISCO injection solution is a 10% by weight sodium permanganate solution.

Table 2 Groundwater Elevation Data - March 2017, Former Dover Electronics Site, Kirkwood, New York

Monitoring Well/Point	Top of Casing (ft, msl)	Date	Depth to Water (ft, btoc)	Groundwater Elevation (ft, msl)	Total Depth (ft, btoc)	Screened Interval (ft, btoc)	Water Bearing Unit
MW-2	863.28	3/20/2017	6.14	857.14	16.40	5-15	Shallow
MW-3	859.16	3/20/2017	4.05	855.11	14.21	5-15	Shallow
MW-5	864.68	3/20/2017	5.50	859.18	10.70	5-20	Shallow
MW-6	863.67	3/20/2017	1.55	862.12	34.65	15-35	Intermediate
MW-7A	882.74	3/20/2017	5.75	876.99	15.75	7-17	Shallow
MW-8	899.21	3/20/2017	26.97	872.24	58.90	30-60	Intermediate
MW-9	923.94	3/20/2017	45.36	878.58	61.25	30-60	Shallow
MW-11	918.87	3/20/2017	30.90	887.97	61,53	52-62	Intermediate
MW-12	912.31	3/20/2017	37.81	874.50	72.50	63-73	Intermediate
MW-13	912.14	3/20/2017	33.10	879.04	48.31	39-49	Shallow
MW-14	915.40	3/20/2017	39.00	876.40	71.85	62-72	Intermediate
MW-15	899.38	3/20/2017	-	-	-	36-46	Shallow
MW-16	878.87	3/20/2017	15.45	863.42	29.85	18-28	Shallow
MW-17	859.29	3/20/2017	11.36	847.93	20.05	8-18	Shallow
MW-18	857.34	3/20/2017	7.65	849.69	14.50	8-18	Shallow
MW-19	859.59	3/20/2017	12.32	847.27	18.96	8-18	Shallow
MW-21	883.22	3/20/2017	-	-	-	31-41	Intermediate
MW-22	861.62	3/20/2017	4.30	857.32	21.36	17-22	Intermediate
MW-23	916.62	3/20/2017	-	-	50.15	40.5-50.5	Shallow
MW-24	907.66	3/20/2017	34.67	872.99	42.60	35-45	Shallow
MW-25*	857.01	3/20/2017	11.28	845.73	38.95	34-39	Intermediate
MW-26	859.04	3/20/2017	12.30	846.74	28.00	22.5-27.5	Intermediate
MW-27	860.01	3/20/2017	9.51	850.50	26.71	16.5-26.5	Shallow
MW-28	859.09	3/20/2017	11.36	847.73	25.75	15-25	Shallow
MW-29	917.36	3/20/2017	42.50	874.86	48.70	39-49	Shallow
MW-30*	857.69	3/20/2017	11.65	846.04	20.80	15-25	Shallow
MW-31	856.90	3/20/2017	10.50	846.40	21.10	13-23	Shallow
MW-32	861.18	3/20/2017	10.30	850.88	23.22	15.1-25.1	Shallow
MW-33	863.64	3/20/2017	11.62	852.02	22.45	15-25	Shallow
MW-34	857.03	3/20/2017	0.00	857.03	54.10	53-58	Deep
MW-35	856.89	3/20/2017	11.25	845.64	36.50	32-37	Intermediate
MW-36	857.19	3/20/2017	-	-	-	14-24	Shallow
MW-37	857.71	3/20/2017	12.35	845.36	35.95	31-36	Intermediate
MW-38*	862.70	3/20/2017	3.50	859.20	23.80	20-25	Intermediate
MP-1	912.63	3/20/2017	-	-	40.00	31-41	Shallow
MP-2	911.00	3/20/2017	-	-	36.17	34-44	Shallow
MP-3D	910.59	3/20/2017	35.95	874.64	73.40	46-56	Intermediate
MP-4	883.65	3/20/2017	5.85	877.80	25.58	17-27	Shallow
MP-5	881.66	3/20/2017	12.85	868.81	23.45	14-24	Shallow
MP-6S	875.67	3/20/2017	11.86	863.81	24.75	14-24	Shallow
MP-6D	873.83	3/20/2017	6.91	866.92	48.31	39-49	Intermediate
MP-8S	857.40	3/20/2017	11.45	845.95	15.51	13-23	Shallow
MP-8D	857.20	3/20/2017	11.70	845.50	53.60	44-54	Intermediate
MP-11	875.80	3/20/2017	-	-	29.09	20-30	Shallow
MP-12	876.60	3/20/2017	12.80	863.80	24.37	15-25	Shallow
MP-13	884.30	3/20/2017	8.90	875.40	24.50	15-25	Shallow
MP-14	867.80	3/20/2017	7.00	860.80	23.40	15-25	Shallow
IJ-1	-	3/20/2017	13.39	-	24.20	15-25	Shallow
IJ-2	908.90	3/20/2017	24.40	884.50	44.60	30-45	Shallow
IJ-3	909.40	3/20/2017	0.95	908.45	44.35	30-45	Shallow
IJ-4	-	3/20/2017	3.60	-	24.90	10-25	Shallow
IJ-5	-	3/20/2017	1.83	-	24.82	10-25	Shallow
IJ-6	-	3/20/2017	11.44	-	37.20	10-20, 30-40	Shallow-Intermediate
IJ-7	909.00	3/20/2017	16.00	893.00	40.45	30-45	Shallow
IJ-8	909.20	3/20/2017	9.60	899.60	42.20	30-45	Shallow
IJ-9	909.50	3/20/2017	0.60	908.90	43.53	30-45	Shallow
IJ-10	880.70	3/20/2017	12.35	868.35	23.60	10-25	Shallow

Notes:

-: Not Applicable

* = Well resurveyed by Hulbert Enginerring in August 2015.

All wells gauged within a 24-hour period.

ft, btoc = Feet below top of inner well casing.

ft, msl = Feet above mean sea level.

Table 3 Groundwater Elevation Data - September 2017, Former Dover Electronics Site, Kirkwood, New York

Monitoring Well/Point	Top of Casing (ft, msl)	Date	Depth to Water (ft, btoc)	Groundwater Elevation (ft, msl)	Total Depth (ft, btoc)	Screened Interval (ft, btoc)	Water Bearing Unit
MW-2	863.28	9/11/2017	9.19	854.09	16.65	5-15	Shallow
MW-3	859.16	9/11/2017	5.10	854.06	14.45	5-15	Shallow
MW-5	864.68	9/11/2017	7.29	857.39	10.15	5-20	Shallow
MW-6	863.67	9/11/2017	4.98	858.69	34.50	15-35	Intermediate
MW-7A	882.74	9/11/2017	6.50	876.24	15.90	7-17	Shallow
MW-8	899.21	9/11/2017	26.80	872.41	59.05	30-60	Intermediate
MW-9	923.94	9/11/2017	45.31	878.63	59.95	30-60	Shallow
MW-11	918.87	9/11/2017	38.96	879.91	61.10	52-62	Intermediate
MW-12	912.31	9/11/2017	36.90	875.41	72.55	63-73	Intermediate
MW-13	912.14	9/11/2017	32.31	879.83	48.55	39-49	Shallow
MW-14	915.40	9/11/2017	38.72	876.68	71.89	62-72	Intermediate
MW-15	899.38	9/11/2017	28.01	871.37	35.00	36-46	Shallow
MW-16	878.87	9/11/2017	17.20	861.67	30.15	18-28	Shallow
MW-17	859.29	9/11/2017	12.75	846.54	20.25	8-18	Shallow
MW-18	857.34	9/11/2017	1.90	855.44	14.30	8-18	Shallow
MW-19	859.59	9/11/2017	12.49	847.10	19.20	8-18	Shallow
MW-21	883.22	9/11/2017	-	-	-	31-41	Intermediate
MW-22	861.62	9/11/2017	4.81	856.81	21.60	17-22	Intermediate
MW-23	916.62	9/11/2017	38.85	877.77	50.20	40.5-50.5	Shallow
MW-24	907.66	9/11/2017	34.70	872.96	43.20	35-45	Shallow
MW-25*	857.01	9/11/2017	13.21	843.80	38.90	34-39	Intermediate
MW-26	859.04	9/11/2017	13.45	845.59	28.24	22.5-27.5	Intermediate
MW-27	860.01	9/11/2017	12.85	847.16	26.95	16.5-26.5	Shallow
MW-28	859.09	9/11/2017	12.45	846.64	26.95	15-25	Shallow
MW-29	917.36	9/11/2017	41.95	875.41	48.90	39-49	Shallow
MW-30*	857.69	9/11/2017	11.25	846.44	20.80	15-25	Shallow
MW-31	856.90	9/11/2017	11.98	844.92	21.60	13-23	Shallow
MW-32	861.18	9/11/2017	11.78	849.40	23.50	15.1-25.1	Shallow
MW-33	863.64	9/11/2017	12.99	850.65	23.70	15-25	Shallow
MW-34	857.03	9/11/2017	0.00	857.03	54.20	53-58	Deep
MW-35	856.89	9/11/2017	12.42	844.47	37.80	32-37	Intermediate
MW-36	857.19	9/11/2017	-	-	-	14-24	Shallow
MW-37	857.71	9/11/2017	13.61	844.10	35.81	31-36	Intermediate
MW-38*	862.70	9/11/2017	3.08	859.62	23.91	20-25	Intermediate
MP-1	912.63	9/11/2017	37.20	875.43	39.51	31-41	Shallow
MP-2	911.00	9/11/2017	24.25	886.75	36.16	34-44	Shallow
MP-3D	910.59	9/11/2017	35.95	874.64	73.80	46-56	Intermediate
MP-4	883.65	9/11/2017	7.20	876.45	25.20	17-27	Shallow
MP-5	881.66	9/11/2017	12.60	869.06	23.70	14-24	Shallow
MP-6S	875.67	9/11/2017	9.99	865.68	24.95	14-24	Shallow
MP-6D	873.83	9/11/2017	6.85	866.98	48.55	39-49	Intermediate
MP-8S	857.40	9/11/2017	12.50	844.90	15.75	13-23	Shallow
MP-8D	857.20	9/11/2017	12.90	844.30	53.51	44-54	Intermediate
MP-11	875.80	9/11/2017	8.90	866.90	29.05	20-30	Shallow
MP-12	876.60	9/11/2017	11.61	864.99	24.35	15-25	Shallow
MP-13	884.30	9/11/2017	9.08	875.22	24.55	15-25	Shallow
MP-14	867.80	9/11/2017	17.90	849.90	23.30	15-25	Shallow
IJ-1	-	9/11/2017	13.40	-	24.30	15-25	Shallow
IJ-2	908.90	9/11/2017	18.99	889.91	44.80	30-45	Shallow
IJ-3	909.40	9/11/2017	2.35	907.05	44.50	30-45	Shallow
IJ-4	-	9/11/2017	4.20	-	25.10	10-25	Shallow
IJ-5	-	9/11/2017	4.50	-	24.95	10-25	Shallow
IJ-6	-	9/11/2017	12.60	-	37.40	10-20, 30-40	Shallow-Intermediate
IJ-7	909.00	9/11/2017	23.10	885.90	41.30	30-45	Shallow
IJ-8	909.20	9/11/2017	8.25	900.95	42.21	30-45	Shallow
IJ-9	909.50	9/11/2017	2.20	907.30	43.49	30-45	Shallow
IJ-10	880.70	9/11/2017	12.36	868.34	23.90	10-25	Shallow

Notes:

-: Not Applicable

* = Well resurveyed by Hulbert Enginerring in August 2015.

All wells gauged within a 24-hour period.

ft, btoc = Feet below top of inner well casing.

ft, msl = Feet above mean sea level.

Table 4 Historical Groundwater Analytical Results, Former Dover Electronics Site, Kirkwood, New York

Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MW-1	11/18/1998	TAL/TCL	170	11	21	8.1
MW-2	11/13/1998	SSPL VOCs	320	3.6J	4.4J	NA
	09/21/2001	SSPL VOCs	22	1J	1J	<1.8
	12/04/2001	SSPL VOCs	150	5	5	<6
	01/29/2002	SSPL VOCs	10	0.3J	0.05J	<0.5
	04/03/2002	SSPL VOCs	7	0.2J	<0.5	<0.5
	09/11/2002	SSPL VOCs	100	6	<3	<3
	03/26/2003	SSPL VOCs	9	0.2J	0.09J	<0.5
	09/17/2003	SSPL VOCs	22	0.75	0.63	<0.5
	04/07/2004	SSPL VOCs	14	0.26J	<0.5	<0.5
	09/21/2004	SSPL VOCs	9.5	1.2	0.8	<0.5
	09/28/2005	SSPL VOCs	160	13	5.4	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/03/2006	SSPL VOCs	6.3	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	9.7	0.66J	<5.0	<5.0
	04/03/2007	SSPL VOCs	10	0.61J	0.33J	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	160	11	3.2J	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	3.0 J	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	120	8	2.0J	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	16	1.0J	<5.0	<5.0
	09/23/2009	SSPL VOCs	160	11	2.5 J	<5.0
	03/17/2010	SSPL VOCs	17.0	2.0 J	1.2 J	<5.0
	12/27/2012	SSPL VOCs	39	5.3	3.3 J	<5.0
	03/16/2015	SSPL VOCs	3.1 J	1.8 J	1.6 J	<5.0
	03/15/2016	SSPL VOCs	2.5	4.1	4.9	<5.0
	03/20/2017	SSPL VOCs	4.0	2.6	0.74 J	<1.0
MW-3	11/12/1998	SSPL VOCs	200	<5.0	<5.0	ND
	09/20/2001	SSPL VOCs	11	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	110	3J	5	<2.0
	03/12/2010	SSPL VOCs	610 D	7.2	10.0	<5.0
	09/20/2015	SSPL VOCs	100	1.4 J	2.8 J	<5.0
	09/14/2016	SSPL VOCs	75	1.3	1.1	<1.0
	09/12/2017	SSPL VOCs	130	.60 J	2.0	<1.0
MW-5	11/13/1998	SSPL VOCs	14	<5.0	<5.0	ND
	09/21/2001	SSPL VOCs	12	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	13 B	0.2 J	<0.5	<0.5
	03/18/2010	SSPL VOCs	31	<5.0	<5.0	<5.0
	11/18/2014	SSPL VOCs	45	2.3 J	<5.0	<5.0
	09/21/2015	SSPL VOCs	44	0.38 J	<5.0	<5.0
MW-6	11/11/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/21/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	0.2JB	<0.5	<0.5	<0.5
	03/18/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/14/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/24/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/18/2014	SSPL VOCs	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)
MW-7A	11/16/1998	SSPL VOCs	1,300	<5.0	<50	ND
	09/19/2001	SSPL VOCs	3,600	<130	<130	<130
	12/04/2001	SSPL VOCs	6,000	<160	<160	<160
	01/28/2002	SSPL VOCs	3,900	<84	<84	<84
	04/02/2002	SSPL VOCs	3,800	38J	<170	<170
	09/11/2002	SSPL VOCs	3,600	<83	<83	<83
	03/25/2003	SSPL VOCs	7,700	53J	<250	<250
	09/17/2003	SSPL VOCs	2,700	9.9J	<83	<83
	04/07/2004	SSPL VOCs	6,200	3.2J	0.6J	<130
	09/24/2004	SSPL VOCs	4,100	<130	<130	<130
	09/28/2005	SSPL VOCs	2,700	2.4	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	2,900D	<50	<50	<50
	03/08/2006			Phase II ISCO Field Test		
	04/03/2006	SSPL VOCs	1,000	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	1,900	<50	3.9 J	<50
	04/03/2007	SSPL VOCs	2,400D	4.5 J	<50	<50
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	2,000	<100	<100	<100
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	< 5.0	<5.0	< 5.0	< 5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	1,600D	1.8 J	2.2 J	<25
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	2,100D	<50	<50	<50
	09/24/2009	SSPL VOCs	3,700	<100	<100	<100
	03/17/2010	SSPL VOCs	1,700	<50	<50	<50
	12/19/2011	SSPL VOCs	2300 D	3.7 J	<50	<100
	02/14/2012	SSPL VOCs	2,700	5.8 J	<100	<100
	04/18/2012	SSPL VOCs	2,500	<100	<100	<100
	06/19/2012	SSPL VOCs	2,700	<100	<100	<100
	09/20/2012	SSPL VOCs	1,600	<50	<50	<50
	12/20/2012	SSPL VOCs	1,100	<50	<50	<50
	03/15/2013	SSPL VOCs	1900 D	<100	<100	<100
	09/04/2013	SSPL VOCs	550	<25	<25	<25
	03/18/2014	SSPL VOCs	240	<10	<10	<10
	09/17/2014	SSPL VOCs	780 D	<25	<25	<25
	03/17/2015	SSPL VOCs	35 (37)	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)
	09/22/2015	SSPL VOCs	4.1 J	<25	<25	<25
	03/15/2016	SSPL VOCs	780 D	0.22 J	<5.0	<5.0
	09/15/2016	SSPL VOCs	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)
	03/23/2017	SSPL VOCs	44	<5.0	<5.0	<5.0
	09/13/2017	SSPL VOCs	6	<1.0	<1.0	<1.0
MW-8	11/16/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/21/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	03/18/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/28/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/24/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-9	11/18/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/19/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	0.07 JB	<0.5	<0.5	<0.5
	03/16/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-11	11/13/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/19/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	0.1JB	<0.5	<0.5	<0.5
	03/18/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/18/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-12	11/17/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	02/02/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/19/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	12/03/2001	SSPL VOCs	0.09J	<0.5	<0.5	<0.5
	01/28/2002	SSPL VOCs	0.09J	<0.5	<0.5	<0.5
	04/02/2002	SSPL VOCs	<0.5	0.03J	<0.5	<0.5
	09/10/2002	SSPL VOCs	0.2J	<0.5	<0.5	<0.5
	03/25/2003	SSPL VOCs	0.1J	<0.5	<0.5	<0.5
	09/17/2003	SSPL VOCs	0.16J	<0.5	<0.5	<0.5
	04/08/2004	SSPL VOCs	0.26J	<0.5	<0.5	<0.5
	09/24/2004	SSPL VOCs	0.27J	<0.5	<0.5	<0.5
	09/28/2005	SSPL VOCs	<1.0	<1.0	<2.0	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/03/2006	SSPL VOCs	1.1 J	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	0.46J	<5.0	<5.0	<5.0
	04/03/2007	SSPL VOCs	0.55J	<5.0	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	4.4J	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/02/2008	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/25/2009	SSPL VOCs	0.58J	<5.0	<5.0	<5.0
	03/19/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/27/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/18/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0

See notes on last page

Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MW-13	11/12/1998	SSPL VOCs	13	<5.0	<5.0	ND
	02/02/1999	SSPL VOCs	9.7	<5.0	<5.0	ND
	09/19/2001	SSPL VOCs	13	0.3J	<0.5	<0.5
	12/03/2001	SSPL VOCs	14	0.3J	0.06J	<0.5
	01/28/2002	SSPL VOCs	13	<0.5	<0.5	<0.5
	04/02/2002	SSPL VOCs	8	0.2J	<0.5	<0.5
	09/10/2002	SSPL VOCs	7	0.2J	<0.5	<0.5
	03/25/2003	SSPL VOCs	20	0.5J	0.9	<0.5
	09/17/2003	SSPL VOCs	12	0.25J	<0.5	<0.5
	04/08/2004	SSPL VOCs	23	0.16J	<0.5	<0.5
	09/24/2004	SSPL VOCs	10	0.26J	<0.5	<0.5
	09/28/2005	SSPL VOCs	4	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/03/2006	SSPL VOCs	1.4 J	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	11	<5.0	<5.0	<5.0
	04/03/2007	SSPL VOCs	14	0.31J	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	11	0.32 J	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	3.6J	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/02/2008	SSPL VOCs	5.2	<5.0	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	21	<5.0	<5.0	<5.0
	09/25/2009	SSPL VOCs	13	<5.0	<5.0	<5.0
	03/19/2010	SSPL VOCs	15	<5.0	<5.0	<5.0
	09/22/2015	SSPL VOCs	17	0.59 J	<5.0	<5.0
	09/14/2016	SSPL VOCs	33	1.4	<1.0	<1.0
	09/11/2017	SSPL VOCs	19	0.60 J	<1.0	<1.0
MW-14	11/17/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/19/2001	SSPL VOCs	0.3J	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	0.5J	<0.5	<0.5	<0.5
	03/18/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/23/2017	SSPL VOCs	15	<1.0	<1.0	<1.0
MW-15	02/04/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	03/11/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/26/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	12/03/2001	SSPL VOCs	0.2J	<0.5	0.03J	<0.5
	01/28/2002	SSPL VOCs	<0.5	0.03J	<0.5	<0.5
	04/02/2002	SSPL VOCs	0.2	0.05J	0.08J	NA
	09/12/2002	SSPL VOCs	0.2J	<0.5	<0.5	<0.5
	03/25/2003	SSPL VOCs	0.1J	<0.5	<0.5	<0.5
	09/17/2003	SSPL VOCs	0.023J	0.086J	0.051J	<0.5
	04/08/2004	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/24/2004	SSPL VOCs	0.18J	<0.5	<0.5	<0.5
	09/28/2005	SSPL VOCs	<1	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/21/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/04/2007	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-16	11/12/1998	SSPL VOCs	570	11J	16J	NA
	02/01/1999	SSPL VOCs	470	15J	12J	NA
	09/19/2001	SSPL VOCs	2	<0.5	<0.5	<0.5
	12/03/2001	SSPL VOCs	92	2J	4	<3
	01/28/2002	SSPL VOCs	8	0.3J	0.3J	<0.5
	04/02/2002	SSPL VOCs	180	5J	6J	<6
	09/11/2002	SSPL VOCs	160	7J	6	<0.5
	3/252003	SSPL VOCs	45	1J	1J	<0.5
	09/17/2003	SSPL VOCs	160	4.5J	5.4J	<6.3
	04/07/2004	SSPL VOCs	530	8.7J	11J	<13
	09/24/2004	SSPL VOCs	220	5.1	5.3	<8.3
	09/28/2005	SSPL VOCs	53	1.4	2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	380D	<10	<10	<10
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	23	<5.0	<5.0	<5.0
	04/03/2007	SSPL VOCs	420D	13	10	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	240	5.4J	5.1J	<10.0
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	300	9.1 J	8.4J	< 13.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	NS	NS	NS	NS
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	NS	NS	NS	NS
	09/24/2009	SSPL VOCs	260	6.2J	4.6J	<10
	03/17/2010	SSPL VOCs	260	5.8 J	4.0 J	<10
	12/21/2011	SSPL VOCs	280	6.5 J	4.5 J	< 10
	02/15/2012	SSPL VOCs	250	5.3 J	4.7 J	< 10
	04/19/2012	SSPL VOCs	200	4.3 DJ	3.8 DJ	<10
	06/21/2012	SSPL VOCs	210	4.4 J	2.8 J	<10
	09/20/2012	SSPL VOCs	200	4.5 J	2.7 J	<5.0
	12/18/2012	SSPL VOCs	180	4.3 J	2.9 J	< 5.0
	03/13/2013	SSPL VOCs	200 D	4.2 DJ	2.9 DJ	<13
	09/04/2013	SSPL VOCs	160	3.3 J	2.0 J	<5.0
	03/18/2014	SSPL VOCs	150	3.6 J	1.9 J	<5.0
	09/18/2014	SSPL VOCs	140	2.4 J	1.3 J	<5.0
	03/16/2015	SSPL VOCs	100	2.1 J	1.1 J	<5.0
	09/22/2015	SSPL VOCs	43	0.39 J	<5.0	<5.0
	03/15/2016	SSPL VOCs	46	0.69	0.34 J	<5.0
	09/14/2016	SSPL VOCs	6.5	<1.0	<1.0	<1.0
	03/23/2017	SSPL VOCs	32.0	<1.0	<1.0	<1.0
	09/13/2017	SSPL VOCs	60.0	0.28 J	<1.0	<1.0
MW-17	11/11/1998	SSPL VOCs	4.7J	<5.0	<5.0	ND
	02/04/1999	SSPL VOCs	3 J	<5.0	<5.0	ND
	09/25/2001	SSPL VOCs	3	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	3B	0.2J	0.08J	<0.5
	03/18/2010	SSPL VOCs	1.9	<5.0	<5.0	<5.0
	12/27/2012	SSPL VOCs	1.5 J	<5.0	<5.0	<5.0
	09/24/2013	SSPL VOCs	1.8 J	0.24 J	<5.0	<5.0
	11/18/2014	SSPL VOCs	1.8 J	0.28 J	<5.0	<5.0
	09/15/2016	SSPL VOCs	3.7	<1.0	<1.0	<1.0
MW-18	11/18/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	02/03/1999	SSPL VOCs	2.7J	0.81 J	<5.0	ND
	03/10/1999	SSPL VOCs	2J	<5.0	<5.0	ND
	DRY	------				
	3/15/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/29/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	9/24/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	9/19/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-19	11/11/1998	SSPL VOCs	68	8.8	9	NA
	02/05/1999	SSPL VOCs	160	18	17	NA
	03/10/1999	SSPL VOCs	160	17	16	NA
	09/24/2001	SSPL VOCs	88	20	<4.2	<4.2
	09/13/2002	SSPL VOCs	11	4.0	4.0	<0.5
	03/12/2010	SSPL VOCs	29	8.7	15.8	<5.0
	09/20/2015	SSPL VOCs	23	7.1	15.41 J	0.58 J
	09/14/2016	SSPL VOCs	44	9.3	14	<1.0
	09/12/2017	SSPL VOCs	23	5.9	11.49	0.60 J
MW-20	11/10/1998	SSPL VOCs	9.3	<5.0	<5.0	ND
	02/04/1999	SSPL VOCs	12	<5.0	<5.0	ND
	03/15/1999	SSPL VOCs	63	1.3 J	<5.0	ND
	09/26/2001	SSPL VOCs	8	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	4	0.1 J	<0.5	<0.5
MW-21	02/01/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	03/12/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/26/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	0.9J	<0.5	<0.5	<0.5
	03/12/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-22	11/13/1998	SSPL VOCs	<5.0	<5.0	<5.0	ND
	02/04/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/19/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	0.3J	<0.5	<0.3	<0.5
	03/12/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/28/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/24/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-23	11/18/1998	TAL/TCL	48	<50	<42	NA
	02/05/1999	SSPL VOCs	21	<5.0	<5.0	ND
	03/19/1999	SSPL VOCs	13	<5.0	<5.0	ND
	09/19/2001	SSPL VOCs	0.3J	2.0	5.0	<0.5
	09/13/2002	SSPL VOCs	2.0	2.0	0.3J	<0.5
	03/17/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0

See notes on last page

Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MW-24	11/13/1998	SSPL VOCs	2,100	8.8J	<5.0	NA
	02/03/1999	SSPL VOCs	2,700	<100	24J	NA
	09/19/2001	SSPL VOCs	2,500	26J	46J	<84
	12/03/2001	SSPL VOCs	1,600	12J	35J	<42
	01/28/2002	SSPL VOCs	1,500	12J	31J	<42
	04/02/2002	SSPL VOCs	1,600	40J	610	<63
	09/10/2002	SSPL VOCs	660	330	1,200	<36
	03/25/2003	SSPL VOCs	42	23	1,100	42
	09/17/2003	SSPL VOCs	2.5J	0.5J	180	19
	04/07/2004	SSPL VOCs	2.4J	2J	87	22
	09/24/2004	SSPL VOCs	4	2.2	57	37
	09/28/2005	SSPL VOCs	2.1	1.2	23.8	14
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	<50	<50	<50	<50
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	310	17	69	1.8J
	04/03/2007	SSPL VOCs	470D	30	78	6.8J
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	58	<5.0	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	100	7.6	19.62J	0.99 J
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	NS	NS	NS	NS
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	NS	NS	NS	NS
	09/23/2009	SSPL VOCs	240	11	23	<10
	03/19/2010	SSPL VOCs	150	5.0 J	4.2 J	<5.0
	12/21/2012	SSPL VOCs	22	< 5.0	< 5.0	< 5.0
	09/22/2015	SSPL VOCs	2.8 J	<5.0	<5.0	<5.0
	09/13/2016	SSPL VOCs	9.8	<1.0	<1.0	<1.0
	09/12/2017	SSPL VOCs	0.30	<1.0	<1.0	<1.0
MW-25	03/19/1999	SSPL VOCs	1,200	6.7 J	20 J	ND
	04/23/1999	SSPL VOCs	1,100	<50	<33	ND
	09/25/2001	SSPL VOCs	630	<25	<25	<25
	12/05/2001	SSPL VOCs	960	6 J	5 J	<25
	01/30/2002	SSPL VOCs	250	250	10	<6
	04/04/2002	SSPL VOCs	670	13 J	4 J	<25
	09/16/2002	SSPL VOCs	610	6 J	6 J	<25
	03/27/2003	SSPL VOCs	620	7 J	11 J	<14
	09/17/2003	SSPL VOCs	990	13 J	24	<21
	04/07/2004	SSPL VOCs	760	9.7 J	24 J	<31
	09/24/2004	SSPL VOCs	1,110	14	24	<36
	09/28/2005	SSPL VOCs	770	10	21	<2
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	250D	5.8J	12	<10
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	630D	9.2J	16	<13
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	470	8.4J	14	<13
	04/03/2007	SSPL VOCs	160	140	130	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	390D	6.0J	8.7J	<25.0
	11/27/2007			Phase III ISCO Field Test		
	03/27/2008	SSPL VOCs	390D	7.3	9.2	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	09/30/2008	SSPL VOCs	400D	7.8	10	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	170D	<5.0	4.0 J	<5.0
	09/22/2009	SSPL VOCs	530	8.2 J	8.5 J	<25
	03/17/2010	SSPL VOCs	450	6.5 J	8.2 J	<13
	12/20/2011	SSPL VOCs	43	44	63.9 J	0.82 J
	03/15/2012	SSPL VOCs	360 D	6.5 DJ	4.8 DJ	<25
	06/20/2012	SSPL VOCs	350	6.5 J	4.4 J	<13
	09/21/2012	SSPL VOCs	400	6.0 J	4.5 J	<13
	12/19/2012	SSPL VOCs	360	6.3 J	5.1 J	< 13
	03/15/2013	SSPL VOCs	370	5.9 J	4.6 J	<13
	09/04/2013	SSPL VOCs	350	5.4 J	3.3 J	<13
	03/20/2014	SSPL VOCs	300	5.3 J	2.5 J	<13
	09/19/2014	SSPL VOCs	240	3.0 J	1.4 J	<13
	03/17/2015	SSPL VOCs	290	4.4 J	1.8 J	<10
	09/21/2015	SSPL VOCs	180	1.9 J	0.90 J	<10
	03/16/2016	SSPL VOCs	190	2.0	1.3	<5.0
	09/14/2016	SSPL VOCs	140	1.5	0.83 J	<1.0
	03/23/2017	SSPL VOCs	99	2.2	1.5	<1.0
	09/13/2017	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-26	02/05/1999	SSPL VOCs	200	6J	<50	NA
	03/10/1999	SSPL VOCs	150	4.1J	8.9	NA
	09/24/2001	SSPL VOCs	94	5.0	5.0	<5.0
	09/13/2002	SSPL VOCs	11	1.0	0.9	<0.5
	03/06/2006	SSPL VOCs	1.6J	<5.0	<5.0	<5.0
	03/12/2010	SSPL VOCs	65	4.5 J	5.3	<5.0
	12/29/2012	SSPL VOCs	49	4.8 J	5.9	<5.0
	09/19/2014	SSPL VOCs	38	3.5 J	4.0 J	<5.0
	09/20/2015	SSPL VOCs	50	4.3 J	6.7	<5.0
	09/14/2016	SSPL VOCs	34	3.3	4.8	<1.0
	09/12/2017	SSPL VOCs	29	3.4	4.93	<1.0
MW-27	02/03/1999	SSPL VOCs	73	2.5J	5.3	NA
	03/11/1999	SSPL VOCs	100	2.6J	<5.0	NA
	09/26/2001	SSPL VOCs	56	5.0	6.0	<2.5
	09/13/2002	SSPL VOCs	29	11	10	<1.0
	03/15/2010	SSPL VOCs	72	3.4 J	1.2 J	<5.0
	09/20/2015	SSPL VOCs	20	7.7	15	<5.0
	09/14/2016	SSPL VOCs	34	5.7	14	<1.0
	09/12/2017	SSPL VOCs	1.3	0.51 J	11	<1.0
MW-28	02/03/1999	SSPL VOCs	1,200	10J	<5.0	NA
	03/17/1999	SSPL VOCs	<5.0	10J	14J	NA
	09/25/2001	SSPL VOCs	70	1J	3J	<3.6
	12/05/2001	SSPL VOCs	440	5J	10J	<17
	01/30/2002	SSPL VOCs	550	9J	8J	<18
	04/04/2002	SSPL VOCs	930	12J	17J	<31
	09/16/2002	SSPL VOCs	44	39	85	<3.0
	03/27/2003	SSPL VOCs	140	170	290	<13
	09/17/2003	SSPL VOCs	100	58	89	<3.1
	04/07/2004	SSPL VOCs	110	54	72	<3.6
	09/24/2004	SSPL VOCs	240	2.6	4.6	<8.3
	09/29/2005	SSPL VOCs	6.8	7.4	30	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	160	62	120	<5.0
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	200D	56	68	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	48	22	39	0.44J
	04/03/2007	SSPL VOCs	480D	7.6J	11	<10
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	410	78	71.5J	<13
	11/27/2007			Phase III ISCO Field Test		
	03/27/2008	SSPL VOCs	180	98	97.1J	< 5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	09/30/2008	SSPL VOCs	160	57	68.2J	< 5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	280	130	85.8J	<10
	09/25/2009	SSPL VOCs	18	20	37.9J	< 5.0
	03/15/2010	SSPL VOCs	270	110	66	<13
	12/20/2011	SSPL VOCs	340	5.5 J	4.3	<13
	03/15/2012	SSPL VOCs	52	49	58.5 J	0.55 J
	06/20/2012	SSPL VOCs	47	48	57.4 J	0.58 J
	09/21/2012	SSPL VOCs	180	77	57.2 J	0.32 J
	12/19/2012	SSPL VOCs	190	64	41.8 J	< 5.0
	03/15/2013	SSPL VOCs	170	60	49.4 J	0.41 J
	09/04/2013	SSPL VOCs	110	53	53.3 J	0.42 J
	03/20/2014	SSPL VOCs	43	50	57.4 J	<5.0
	09/19/2014	SSPL VOCs	36	27	26.65 J	<5.0
	03/17/2015	SSPL VOCs	41	12	12.56 J	<5.0
	09/21/2015	SSPL VOCs	3.8 J	3.1 J	2.2 J	<5.0
	03/16/2016	SSPL VOCs	11	2.1	2.4	<5.0
	09/13/2016	SSPL VOCs	7.5	0.31 J	<1.0	<1.0
	03/23/2017	SSPL VOCs	0.41 J	<1.0	<1.0	<1.0
	09/12/2017	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MW-29	02/03/1999	SSPL VOCs	<5.0	<5.0	15J	ND
	03/12/1999	SSPL VOCs	<5.0	<5.0	< 5	ND
	09/19/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/13/2002	SSPL VOCs	0.1J	<0.5	<0.5	<0.5
	03/19/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/27/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/25/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0

See notes on last page

Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MW-30	03/19/1999	SSPL VOCs	<5.0	0.8 J	<5.0	ND
	04/23/1999	SSPL VOCs	<5.0	0.97 J	<5.0	ND
	09/26/2001	SSPL VOCs	<0.5	1	0.6	<0.5
	12/05/2001	SSPL VOCs	2	0.4J	0.4J	<0.5
	01/29/2002	SSPL VOCs	0.07J	0.7	0.5	<0.5
	04/04/2002	SSPL VOCs	0.06J	0.6	0.5	<0.5
	09/17/2002	SSPL VOCs	0.1J	0.6	0.5	<0.5
	03/26/2003	SSPL VOCs	0.3J	0.5J	0.4J	<0.5
	09/18/2003	SSPL VOCs	1.7	0.55J	0.49J	<0.5
	04/08/2004	SSPL VOCs	<0.5	0.36J	0.34J	<0.5
	09/24/2004	SSPL VOCs	<0.5	0.51	0.64	<0.5
	09/29/2005	SSPL VOCs	<1	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006	SSPL VOCs	<5.0	0.58J	0.54J	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/21/2006	SSPL VOCs	<5.0	0.43J	0.60J	<5.0
	04/04/2007	SSPL VOCs	1.6J	0.78J	0.58J	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	8.5	0.71 J	0.64 J	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	12	1.0J	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	09/30/2008	SSPL VOCs	14	0.65J	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	24	0.89J	<5.0	<5.0
	09/23/2009	SSPL VOCs	18	0.73J	<5.0	<5.0
	03/17/2010	SSPL VOCs	7.5	<5.0	<5.0	<5.0
	12/21/2011	SSPL VOCs	<5.0	0.37 J	0.32 J	<5.0
	03/15/2012	SSPL VOCs	<5.0	< 5.0	<5.0	<5.0
	06/20/2012	SSPL VOCs	<5.0	0.35 J	0.30 J	<5.0
	09/20/2012	SSPL VOCs	<5.0	0.28 J	<5.0	<5.0
	12/20/2012	SSPL VOCs	<5.0	0.28 J	<5.0	<5.0
	09/24/2013	SSPL VOCs	<5.0	< 5.0	<5.0	<5.0
	09/19/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/20/2015	SSPL VOCs	<5.0	0.59 J	0.51 J	<5.0
	09/12/2016	SSPL VOCs	<1.0	0.57 J	0.93 J	<1.0
	09/12/2017	SSPL VOCs	<1.0	0.51 J	0.59 J	<1.0
MW-31	03/18/1999	SSPL VOCs	1.3J	1.9 J	<5.0	ND
	04/22/1999	SSPL VOCs	<5.0	1.4 J	<5.0	ND
	09/26/2001	SSPL VOCs	1	3	1	<0.5
	12/05/2001	SSPL VOCs	0.7	1	0.8	<0.5
	01/31/2002	SSPL VOCs	1	2	1	0.07J
	04/04/2002	SSPL VOCs	1	2	1	<0.5
	09/16/2002	SSPL VOCs	0.7	2	2	<0.5
	03/27/2003	SSPL VOCs	0.9	1.0	2.0	<0.5
	09/18/2003	SSPL VOCs	0.26J	1.5	2..3	<0.5
	04/08/2004	SSPL VOCs	<0.5	0.56	1.3	<0.5
	09/24/2004	SSPL VOCs	<0.5	0.81	1.3	<0.5
	09/29/2005	SSPL VOCs	<1.0	<1.0	<2.0	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	<5.0	0.61 J	1.7 J	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	<5.0	0.56 J	1.4 J	<5.0
	04/04/2007	SSPL VOCs	<5.0	0.33 J	0.42 J	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	<5.0	0.33 J	1.20 J	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/27/2008	SSPL VOCs	0.75 J	0.67 J	1.1 J	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	<5.0	<5.0	0.97 J	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/18/2009	SSPL VOCs	<5.0	<5.0	1.1 J	<5.0
	09/22/2009	SSPL VOCs	<5.0	<5.0	0.98 J	<5.0
	03/16/2010	SSPL VOCs	<5.0	<5.0	0.73 J	<5.0
	12/28/2012	SSPL VOCs	<5.0	0.47 J	0.85 J	<5.0
	09/24/2013	SSPL VOCs	<5.0	0.33 J	0.42 J	<5.0
	11/18/2014	SSPL VOCs	<5.0 (<5.0)	0.38 J (0.39 J)	0.38 J (0.37 J)	<5.0 (<5.0)
	12/22/2015	SSPL VOCs	<1.0	0.80 J	0.49 J	<1.0
	09/12/2016	SSPL VOCs	<1.0	0.44 J	<1.0	<1.0
	09/11/2017	SSPL VOCs	<1.0	0.61 J	0.44 J	<1.0
MW-32	03/19/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	04/22/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/25/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	12/05/2001	SSPL VOCs	0.5J	<0.5	0.07J	<0.5
	01/29/2002	SSPL VOCs	<0.5	<0.5	0.2J	<0.5
	04/03/2002	SSPL VOCs	0.4J	0.07J	0.1J	<0.5
	09/13/2002	SSPL VOCs	0.2J	0.03J	<0.5	<0.5
	03/27/2003	SSPL VOCs	0.4J	0.2J	<0.5	<0.5
	09/17/2003	SSPL VOCs	0.33J	0.031J	0.15J	<0.5
	04/07/2004	SSPL VOCs	0.39J	<0.5	<0.5	<0.5
	09/24/2004	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/29/2005	SSPL VOCs	<1.0	<1.0	<2.0	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/03/2007	SSPL VOCs	<5.0	<5.0	0.32J	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	0.43 J	<5.0	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	1.2 J	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	<10	<10	<10	<10
	10/03/2008			Phase III ISCO Field Test		
	03/18/2009	SSPL VOCs	<5.0	<5.0	0.53 J	<5.0
	09/22/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/12/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/28/2012	SSPL VOCs	<5.0	<5.0	0.38 J	<5.0
	09/20/2015	SSPL VOCs	<5.0	<5.0	0.57 J	<5.0
	09/12/2016	SSPL VOCs	<1.0	0.38 J	0.89 J	<1.0
	09/11/2017	SSPL VOCs	<1.0	0.30 J	0.84 J	<1.0
MW-33	03/18/1999	SSPL VOCs	37	1.1 J	< 5	ND
	04/22/1999	SSPL VOCs	27	0.74 J	< 5	ND
	09/26/2001	SSPL VOCs	13	0.6	0.8	<0.5
	09/13/2002	SSPL VOCs	6	0.8	0.2 J	<0.05
	03/15/2010	SSPL VOCs	0.91 J	<5.0	<5.0	<5.0
	09/24/2013	SSPL VOCs	1.8 J	<5.0	<5.0	<5.0
	09/20/2014	SSPL VOCs	2.3 J	0.56 J	<5.0	<5.0
MW-34	04/21/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/25/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	12/05/2001	SSPL VOCs	0.05J	<0.5	<0.5	<0.5
	01/30/2002	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	04/04/2002	SSPL VOCs	0.2J	<0.5	<0.5	<0.5
	09/16/2002	SSPL VOCs	0.2J	0.05J	<0.5	<0.5
	03/27/2003	SSPL VOCs	0.2J	<0.5	<0.5	<0.5
	09/17/2003	SSPL VOCs	0.68	0.086J	0.076J	<0.5
	04/07/2004	SSPL VOCs	0.31J	<0.5	<0.5	<0.5
	09/24/2004	SSPL VOCs	0.39J	<0.5	<0.5	<0.5
	09/29/2005	SSPL VOCs	<1	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/03/2007	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/27/2008	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	09/30/2008	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/22/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/15/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0

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Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MW-35	04/21/1999	SSPL VOCs	<5.0	<5.0	<5.0	ND
	09/25/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	12/05/2001	SSPL VOCs	0.04J	<0.5	0.04J	<0.5
	01/29/2002	SSPL VOCs	<0.5	<0.5	0.09J	<0.5
	04/03/2002	SSPL VOCs	<0.5	<0.5	0.1J	<0.5
	09/16/2002	SSPL VOCs	0.08J	<0.5	<0.5	<0.5
	03/27/2003	SSPL VOCs	0.2J	<0.5	<0.5	<0.5
	09/17/2003	SSPL VOCs	0.17J	<0.5	0.12J	<0.5
	04/07/2004	SSPL VOCs	0.18J	<0.5	1.1	<0.5
	09/24/2004	SSPL VOCs	0.37J	<0.5	<0.5	<0.5
	09/29/2005	SSPL VOCs	<1	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	<2.4	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/03/2007	SSPL VOCs	0.72J	<5.0	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	1.5J	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/18/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/22/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/12/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/12/2017	SSPL VOCs	<1.0	<1.0	0.43 J	<1.0
MW-36	04/21/1999	SSPL VOCs	<5.0	<5.0	0.97 J	
	09/26/2001	SSPL VOCs	<0.5	<0.5	0.5	<0.5
	09/13/2002	SSPL VOCs	0.07J	<0.5	0.3J	<0.5
	03/16/2010	SSPL VOCs	<13	<13	<13	<13
MW-37	09/28/2001	SSPL VOCs	24	0.7	<0.5	<0.5
	12/05/2001	SSPL VOCs	43	0.9J	0.2J	<2
	01/29/2002	SSPL VOCs	30	1	<0.8	<0.8
	04/03/2002	SSPL VOCs	44	1J	<1	<1
	09/17/2002	SSPL VOCs	16	0.8	0.07J	<0.05
	03/25/2003	SSPL VOCs	40	1	<0.5	<0.5
	09/18/2003	SSPL VOCs	18	0.98	0.026J	<0.5
	04/08/2004	SSPL VOCs	41	1.6	<0.5	<0.5
	09/24/2004	SSPL VOCs	18	0.85	<0.5	<0.5
	09/29/2005	SSPL VOCs	11	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006	SSPL VOCs	15	0.87J	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/21/2006	SSPL VOCs	14	0.92J	<5.0	<5.0
	04/04/2007	SSPL VOCs	36	1.2J	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	19	1.2J	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	0.34J	0.34J	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	09/30/2008	SSPL VOCs	0.99J	0.75J	0.85J	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/23/2009	SSPL VOCs	4.1J	<5.0	<5.0	<5.0
	03/16/2010	SSPL VOCs	<13	<13	<13	<13
	09/24/2013	SSPL VOCs	18	0.78 J	<5.0	<5.0
	09/19/2014	SSPL VOCs	8.0	0.38 J	<5.0	<5.0
	09/20/2015	SSPL VOCs	17	0.52 J	<5.0	<5.0
	09/12/2016	SSPL VOCs	27	1.3	<1.0	<1.0
	09/12/2017	SSPL VOCs	1.1	<1.0	<1.0	<1.0
MW-38	09/28/2001	SSPL VOCs	140	10	10	<6.3
	12/04/2001	SSPL VOCs	330	21	23	<10
	01/29/2002	SSPL VOCs	400	28	19	<8
	04/03/2002	SSPL VOCs	320	21	18	<8
	09/11/2002	SSPL VOCs	350	40	20	<13
	03/26/2003	SSPL VOCs	290	24	15	<13
	09/17/2003	SSPL VOCs	300	23	16	<9.6
	04/07/2004	SSPL VOCs	310	27	16	<13
	09/24/2004	SSPL VOCs	300	20	13	<10
	09/29/2005	SSPL VOCs	330	26	17	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	6.3	<5.0	<5.0	<5.0
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	290	21	9.5J	<10
	04/03/2007	SSPL VOCs	240	19	10J	<10
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	250	20	10	<10
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	180	15	7.8	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	270D	19	8.6	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	6.1	0.69J	<5.0	<5.0
	09/23/2009	SSPL VOCs	250D	20	6.7	<5.0
	03/17/2010	SSPL VOCs	190	13	4.4 J	<5.0
	09/21/2015	SSPL VOCs	89	5.2	1.3 J	<5.0
	09/14/2016	SSPL VOCs	110	7.0	1.2	<1.0
	09/12/2017	SSPL VOCs	98	6.4	1.3	<1.0
MP-1	03/18/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MP-2	01/28/2002	SSPL VOCs	350	10 J	22	<16
	04/02/2002	SSPL VOCs	290	4 J	9	<8.0
	03/25/2003	SSPL VOCs	16	0.3 J	0.6	<0.5
	04/08/2004	SSPL VOCs	21	0.49 J	0.75 J	<0.8
	09/24/2004	SSPL VOCs	30	0.71	0.62	<1.0
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006			Phase II ISCO Field Test		
	04/03/2007	SSPL VOCs	3.5 J	<5.0	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	11/27/2007			Phase III ISCO Field Test		
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/03/2008			Phase III ISCO Field Test		
	03/18/2010	SSPL VOCs	10	<5.0	<5.0	<5.0
	12/21/2012	SSPL VOCs	2.5 J	< 5.0	< 5.0	< 5.0
MP-3D	09/28/2001	SSPL VOCs	1	<0.5	<0.5	<0.5
	12/03/2001	SSPL VOCs	0.1 J	0.03 J	0.06 J	<0.5
	01/28/2002	SSPL VOCs	0.2 J	<0.5	<0.5	<0.5
	04/02/2002	SSPL VOCs	0.03 J	<0.5	<0.5	<0.5
	09/10/2002	SSPL VOCs	<0.5	<0.5	0.02 J	<0.5
	03/25/2003	SSPL VOCs	0.2 J	0.06 J	0.4 J	<0.5
	09/17/2003	SSPL VOCs	1.1	0.062 J	0.2 J	<0.5
	04/08/2004	SSPL VOCs	0.44 J	<0.5	0.94	1.5
	09/24/2004	SSPL VOCs	2.6	<0.5	0.96	<0.5
	09/28/2005	SSPL VOCs	<1	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/03/2006	SSPL VOCs	3.1 J	<5.0	<5.0	0.58 J
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	0.41 J	<5.0	<5.0	0.86 J
	04/30/2007	SSPL VOCs	0.46 J	<5.0	0.45 J	2.0 J
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	0.4 J	<5.0	<5.0	1.2 J
	11/27/2007			Phase III ISCO Field Test		
	03/26/2008	SSPL VOCs	<5.0	<5.0	<5.0	0.98 J
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/02/2008	SSPL VOCs	<50	<50	<50	<50
	10/03/2008			Phase III ISCO Field Test		
	03/18/2009	SSPL VOCs	<5.0	<5.0	<5.0	0.81J
	09/24/2009	SSPL VOCs	<5.1	<5.0	<5.0	0.72J
	03/18/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/23/2013	SSPL VOCs	<5.0	<5.0	1.2 J	0.40 J
	09/18/2014	SSPL VOCs	<5.0	<5.0	0.85 J	<5.0

See notes on last page

Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MP-4	09/27/2001	SSPL VOCs	7,700	<250	<250	<250
	12/04/2001	SSPL VOCs	1,100	4J	3J	<25
	01/29/2002	SSPL VOCs	9,300	47J	<310	<310
	04/02/2002	SSPL VOCs	7,500	82J	13J	<250
	09/11/2002	SSPL VOCs	7,800	23J	<250	<250
	03/25/2003	SSPL VOCs	5,600	<160	<160	<160
	09/17/2003	SSPL VOCs	2,900	22J	10J	<130
	04/08/2004	SSPL VOCs	8,100	4.6J	1.3J	<250
	09/24/2004	SSPL VOCs	9,900	<250	<250	<250
	09/28/2005	SSPL VOCs	6,200	6.1	2.2	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	13,000 D	<250	<250	<250
	03/08/2006			Phase II ISCO Field Test		
	04/03/2006	SSPL VOCs	11,000 D	<250	<250	<250
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	7,900	<250	<250	<250
	04/03/2007	SSPL VOCs	7,000	<250	<250	<250
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	17,000D	<500	<500	<500
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	3,600	<130	<130	<130
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	9,100 D	<250	<250	<250
	10/03/2008			Phase III ISCO Field Test		
	03/18/2009	SSPL VOCs	9,100	<250	<250	<250
	09/22/2009	SSPL VOCs	17,000 D	<100	<100	<100
	03/16/2010	SSPL VOCs	9,700	<250	<250	<250
	02/19/2011	SSPL VOCs	11,000	32	<500	<500
	02/15/2012	SSPL VOCs	6,500	<250	<250	<250
	04/18/2012	SSPL VOCs	6,600	<250	<250	<250
	06/19/2012	SSPL VOCs	8,200	<250	<250	<250
	09/19/2012	SSPL VOCs	11,000 D	<500	<500	<500
	12/20/2012	SSPL VOCs	7,700	<250	<250	<250
	03/14/2013	SSPL VOCs	8,600	<250	<250	<250
	09/04/2013	SSPL VOCs	13000 D	26 DJ	<500	<500
	03/19/2014	SSPL VOCs	11,000	<500	<500	<500
	09/17/2014	SSPL VOCs	12,000	<500	<500	<500
	03/17/2015	SSPL VOCs	10,000	<500	<500	<500
	09/22/2015	SSPL VOCs	970 (1200)	<50 (<50)	<50 (<50)	<50 (<50)
	03/16/2016	SSPL VOCs	3,000 D	<50	<50	<50
	09/14/2016	SSPL VOCs	1,400 (1300)	<10 (<10)	<10 (<10)	<10 (<10)
	03/23/2017	SSPL VOCs	2500 D (2800 D)	<10 (<10)	<10 (<10)	<10 (<10)
	09/13/2017	SSPL VOCs	820	<5.0	<5.0	<5.0
MP-5	09/27/2001	SSPL VOCs	1,500	<50	<50	<50
	12/04/2001	SSPL VOCs	410	0.8J	1J	<13
	01/29/2002	SSPL VOCs	1,100	4J	11J	<42
	04/02/2002	SSPL VOCs	1,300	100	130	<42
	09/11/2002	SSPL VOCs	1,300	150	150	<36
	03/25/2003	SSPL VOCs	1,200	33	110	<36
	09/17/2003	SSPL VOCs	1,100	33	87	<42
	04/08/2004	SSPL VOCs	1,700	28J	120	<63
	09/24/2004	SSPL VOCs	710	16	67	<31
	5/10 to 6/14/2005			Phase I ISCO Field Test		
	09/28/2005	SSPL VOCs	510	19	95	8.6
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	<10	<10	<10	<10
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006	SSPL VOCs	130	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	830D	33	85	7.9
	04/03/2007	SSPL VOCs	710D	27	98	20
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	880	23.0J	102J	1.6J
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	530	24 J	76	17 J
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	NS	NS	NS	NS
	10/03/2008			Phase III ISCO Field Test		
	03/18/2009	SSPL VOCs	720 D	13	53	17
	09/24/2009	SSPL VOCs	560	28	66	23J
	03/17/2010	SSPL VOCs	860	28	31	6.7 J
	12/19/2011	SSPL VOCs	1,100 D	42	38	13 J
	02/16/2012	SSPL VOCs	830 D	29 DJ	27 DJ	8.5 DJ
	04/18/2012	SSPL VOCs	730	32	33	11 J
	06/19/2012	SSPL VOCs	950	42	29	6.6 J
	09/20/2012	SSPL VOCs	750	31	23 J	3.9 J
	12/20/2012	SSPL VOCs	620	25	15 J	2.0 J
	03/14/2013	SSPL VOCs	920	28	19 J	3.0 J
	09/03/2013	SSPL VOCs	970	36	23 J	4.1 J
	03/19/2014	SSPL VOCs	940 (940)	33 J (33)	20 J (20 J)	4.7 J (5.1 J)
	09/17/2014	SSPL VOCs	890	32	14 J	1.7 J
	03/17/2015	SSPL VOCs	<25	<25	<25	<25
	09/21/2015	SSPL VOCs	11	<5.0	<5.0	<5.0
	03/15/2016	SSPL VOCs	280 D	0.58 J	<5.0	<5.0
	09/13/2016	SSPL VOCs	<2.5	<2.5	<2.5	<2.5
	03/23/2017	SSPL VOCs	29	<2.5	<2.5	<2.5
	09/13/2017	SSPL VOCs	7.8	<2.0	<2.0	<2.0
MP-6S	09/24/2001	SSPL VOCs	120	<5.0	<5.0	<5.0
	12/04/2001	SSPL VOCs	37	<2	0.2J	<2
	01/29/2002	SSPL VOCs	890	50J	9J	<31
	04/03/2002	SSPL VOCs	2,100	39J	100	<84
	09/12/2002	SSPL VOCs	150	6	16	<4
	03/26/2003	SSPL VOCs	1,900	46	110	<63
	09/17/2003	SSPL VOCs	1,500	48	130	<63
	04/07/2004	SSPL VOCs	3,200	43J	110	<83
	09/24/2004	SSPL VOCs	2,400	34	63	<100
	5/10 to 6/14/2005			Phase I ISCO Field Test		
	09/28/2005	SSPL VOCs	2,700	26	34	<2
	02/01/2006			Phase II ISCO Field Test		
	03/06/2006	SSPL VOCs	1,200D	10J	11J	<25
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006	SSPL VOCs	1,800	<50	<50	<50
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	2,100D	20J	15J	<50
	04/03/2007	SSPL VOCs	1,300	<50	<50	<50
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	2,300D	18J	15 J	<100
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	NS	NS	NS	NS
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	2,200	11J	9.4 J	<100
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	NS	NS	NS	NS
	09/23/2009	SSPL VOCs	1,000	7.2 J	6.5 J	<50
	03/17/2010	SSPL VOCs	1,100	<50	<50	<50
	12/19/2011	SSPL VOCs	1500 (1000)	8.0 J (6.3 J)	5.4 J (4.7 J)	< 50 (<50)
	02/16/2012	SSPL VOCs	1,200	7.8 J	5.5 J	<50
	04/18/2012	SSPL VOCs	980	5.9 J	5.1 J	<50
	06/19/2012	SSPL VOCs	970	6.1 J	3.6 J	<50
	09/19/2012	SSPL VOCs	920	6.5 J	4.8 J	<25
	12/20/2012	SSPL VOCs	420	4.2 J	3.0 J	< 13
	03/14/2013	SSPL VOCs	750 D	4.5 DJ	3.2 DJ	<25
	09/03/2013	SSPL VOCs	590	2.2 J	<25	<25
	03/19/2014	SSPL VOCs	470	2.7 J	1.4 J	<13
	09/17/2014	SSPL VOCs	450	3.4 J	1.8 J	<13
	03/17/2015	SSPL VOCs	270	1.1 J	<13	<13
	09/21/2015	SSPL VOCs	290	1.5 J	1.4 J	<13
	03/16/2016	SSPL VOCs	290 D	1.0	0.81 J	<5.0
	09/13/2016	SSPL VOCs	260	1.8 J	2.3 J	<2.5
	03/23/2017	SSPL VOCs	200 (200)	0.66 J (0.73 J)	<2.0 (0.57 J)	<2.0 (<1.0)
	09/12/2017	SSPL VOCs	280 D	2.3	2.3	<1.0

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Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MP-6D	09/24/2001	SSPL VOCs	2	<0.5	<0.5	<0.5
	12/04/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	01/29/2002	SSPL VOCs	1	0.3J	<0.5	<0.5
	04/03/2002	SSPL VOCs	0.6	<0.5	<0.5	<0.5
	09/12/2002	SSPL VOCs	14	0.06J	<0.5	<0.5
	03/26/2003	SSPL VOCs	0.4J	<0.5	<0.5	<0.5
	09/18/2003	SSPL VOCs	0.81	<0.5	<0.5	<0.5
	04/07/2004	SSPL VOCs	1.3	<0.5	<0.5	<0.5
	09/24/2004	SSPL VOCs	1.1	<0.5	<0.5	<0.5
	5/10 to 6/14/2005			Phase I ISCO Field Test		
	09/28/2005	SSPL VOCs	<1	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/05/2006	SSPL VOCs	0.62J	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/20/2006	SSPL VOCs	0.38J	<5.0	<5.0	<5.0
	04/03/2007	SSPL VOCs	1.2J	<5.0	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	5.4	<5.0	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/25/2008	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	1.5J	<5.0	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/19/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/23/2009	SSPL VOCs	140	<5.0	<5.0	<5.0
	03/17/2010	SSPL VOCs	<13	<13	<13	<13
	12/19/2011	SSPL VOCs	0.28 J	<5.0	<5.0	<5.0
	02/16/2012	SSPL VOCs	15	<5.0	<5.0	<5.0
	04/18/2012	SSPL VOCs	< 5.0	< 5.0	< 5.0	< 5.0
	06/19/2012	SSPL VOCs	< 5.0	< 5.0	< 5.0	< 5.0
	09/20/2012	SSPL VOCs	< 5.0	< 5.0	< 5.0	< 5.0
	12/21/2012	SSPL VOCs	< 5.0	< 5.0	< 5.0	< 5.0
	03/14/2013	SSPL VOCs	< 5.0	< 5.0	< 5.0	< 5.0
	09/05/2013	SSPL VOCs	1.3 J	< 5.0	< 5.0	< 5.0
	03/20/2014	SSPL VOCs	0.37 J	<5.0	<5.0	<5.0
	09/17/2014	SSPL VOCs	1.4 J	<5.0	<5.0	<5.0
	09/20/2015	SSPL VOCs	0.54 J	<5.0	<5.0	<5.0
	09/12/2016	SSPL VOCs	<1.0	<1.0	<1.0	<1.0
	09/12/2017	SSPL VOCs	0.33 J	<1.0	<1.0	<1.0
MP-7	12/06/2001	SSPL VOCs	25	0.5J	2.0	<1.0
	01/31/2002	SSPL VOCs	0.3J	<0.5	<0.5	<0.5
	04/05/2002	SSPL VOCs	0.2J	<0.5	<0.5	<0.5
MP-8S	09/27/2001	SSPL VOCs	150	2.0 J	6.0	0.2J
	12/04/2001	SSPL VOCs	10	1.0	2.0	<0.5
	01/30/2002	SSPL VOCs	100	3.0 J	6.0 J	<3
	04/04/2002	SSPL VOCs	260	7.0 J	12	<8
	09/17/2002	SSPL VOCs	0.02J	<0.5	<0.5	<0.5
	03/26/2003	SSPL VOCs	110	8.0	5.0	<0.5
	09/18/2003	SSPL VOCs	17	6.7	8.4	<0.5
	04/09/2004	SSPL VOCs	72	36	16	<2.8
	09/22/2004	SSPL VOCs	76	22	7.8	<2.8
	09/29/2005	SSPL VOCs	1.6	8.8	16	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	3.0J	12	17	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/21/2006	SSPL VOCs	1.2J	4.2J	6.8	<5.0
	04/04/2007	SSPL VOCs	2.9J	11	15	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	5.5	6.0	14.4 J	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/27/2008	SSPL VOCs	1.0 J	4.7 J	8.08 J	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	09/30/2008	SSPL VOCs	1.6 J	19	43.1J	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	1.1 J	15	27	0.83 J
	09/23/2009	SSPL VOCs	NS	NS	NS	NS
	03/15/2010	SSPL VOCs	13	36	75.6	1.5 J
	12/20/2011	SSPL VOCs	49	51	88.5	1.9 J
	03/16/2012	SSPL VOCs	31	34	69.6	1.5 J
	06/20/2012	SSPL VOCs	31	58	91.6	1.7 J
	09/21/2012	SSPL VOCs	64	63	102	1.7 J
	12/19/2012	SSPL VOCs	51	59	86.3	1.8 J
	03/15/2013	SSPL VOCs	68	61	94.9	1.9 J
	09/04/2013	SSPL VOCs	68	61	92.3	1.2 J
	09/19/2014	SSPL VOCs	65	59	87.3	0.84 J
	09/21/2015	SSPL VOCs	23	25	67.7 J	0.46 J
	09/13/2016	SSPL VOCs	25	30	55.1	0.36 J
	09/12/2017	SSPL VOCs	26	32	82.9	0.74 J
MP-8D	09/27/2001	SSPL VOCs	2	<0.5	<0.5	<0.5
	12/04/2001	SSPL VOCs	26	0.6J	0.3J	<0.8
	01/30/2002	SSPL VOCs	0.3J	0.03J	<0.5	<0.5
	04/04/2002	SSPL VOCs	0.2J	0.04J	<0.5	<0.5
	09/17/2002	SSPL VOCs	1.0	<0.5	<0.5	<0.5
	03/26/2003	SSPL VOCs	0.7	<0.5	<0.5	<0.5
	09/18/2003	SSPL VOCs	3.2	0.067J	<0.5	<0.5
	04/09/2004	SSPL VOCs	1.6	<0.5	<0.5	<0.5
	09/22/2004	SSPL VOCs	0.8	<0.5	<0.5	<0.5
	09/29/2005	SSPL VOCs	1.5	<1.0	<2.0	<2.0
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/21/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/04/2007	SSPL VOCs	1.6 J	<5.0	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	12	0.3 J	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/27/2008	SSPL VOCs	1.9J	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	09/30/2008	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/24/2009	SSPL VOCs	8.1	8.6	19.7J	<5.0
	03/15/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/20/2011	SSPL VOCs	0.45 J	< 5.0	< 5.0	< 5.0
	03/16/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	06/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/21/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/19/2012	SSPL VOCs	0.89	<5.0	<5.0	<5.0
	09/23/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/19/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/21/2015	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/13/2016	SSPL VOCs	<1.0	<1.0	<1.0	<1.0
	09/12/2017	SSPL VOCs	<1.0	<1.0	<1.0	<1.0
MP-9	12/06/2001	SSPL VOCs	18	0.3J	2	<0.8
	01/31/2002	SSPL VOCs	5	0.2J	0.7	<0.5
	04/05/2002	SSPL VOCs	3	0.1J	0.7	<0.5
MP-10S	12/06/2001	SSPL VOCs	1	<0.5	0.05J	<0.5
	01/30/2002	SSPL VOCs	1	0.03J	0.03J	<0.5
	04/04/2002	SSPL VOCs	0.8	<0.5	0.06J	<0.5
	09/17/2002	SSPL VOCs	0.4J	<0.5	<0.5	<0.5
	03/27/2003	SSPL VOCs	<0.5	<0.5	<0.5	<0.5

See notes on last page

Sample Location	Sampling Date	Method	PCE (µg/L)	TCE (µg/L)	1,2-DCE Total (µg/L)	Vinyl Chloride (µg/L)
MP-10D	09/27/2001	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	12/06/2002	SSPL VOCs	0.07J	<0.5	<0.5	<0.5
	01/30/2002	SSPL VOCs	0.1J	<0.5	<0.5	<0.5
	04/04/2002	SSPL VOCs	0.3J	0.04J	<0.5	<0.5
	09/17/2002	SSPL VOCs	0.3J	<0.5	<0.5	<0.5
	03/27/2003	SSPL VOCs	0.5	<0.5	<0.5	<0.5
	09/18/2003	SSPL VOCs	1.8	<0.5	<0.5	<0.5
	04/09/2004	SSPL VOCs	<0.5	<0.5	<0.5	<0.5
	09/22/2004	SSPL VOCs	0.83	<0.5	<0.5	<0.5
	09/29/2005	SSPL VOCs	<1	<1	<2	<2
	02/01/2006			Phase II ISCO Field Test		
	03/08/2006			Phase II ISCO Field Test		
	04/04/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/05/2006			Phase II ISCO Field Test		
	09/21/2006	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	04/04/2007	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	06/13/2007			Phase III ISCO Field Test		
	08/29/2007			Phase III ISCO Field Test		
	10/16/2007	SSPL VOCs	2.5J	<5.0	<5.0	<5.0
	11/27/2007			Phase III ISCO Field Test		
	03/27/2008	SSPL VOCs	2.5J	<5.0	<5.0	<5.0
	04/01/2008			Phase III ISCO Field Test		
	07/24/2008			Phase III ISCO Field Test		
	10/01/2008	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	10/03/2008			Phase III ISCO Field Test		
	03/17/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/25/2009	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/15/2010	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/20/2011	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/15/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	06/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/21/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/19/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/23/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
MP-11	10/28/2011	SSPL VOCs	11	0.28 J	5.4	9.2
	12/19/2011	SSPL VOCs	25	0.36 J	15	18
	02/15/2012	SSPL VOCs	32	0.36 J	24	22
	04/19/2012	SSPL VOCs	41	0.34 J	30	32
	06/21/2012	SSPL VOCs	52	0.49 J	23 J	31
	09/19/2012	SSPL VOCs	86	0.99 J	38	32
	12/18/2012	SSPL VOCs	110	1.0 J	50.35 J	44
	03/13/2013	SSPL VOCs	170	1.4 J	52.36 J	23
	09/04/2013	SSPL VOCs	200 D	1.8 DJ	43.80 DJ	26 D
	03/18/2014	SSPL VOCs	220	1.6 J	34	17
	09/17/2014	SSPL VOCs	3.1 J	<5.0	<5.0	<5.0
	03/16/2015	SSPL VOCs	67	<5.0	2.3 J	<5.0
	09/22/2015	SSPL VOCs	<25	<25	<25	<25
	03/15/2016	SSPL VOCs	3.4 J	<5.0	<5.0	<5.0
	09/13/2016	SSPL VOCs	4.1	<1.0	<1.0	<1.0
	09/13/2017	SSPL VOCs	7.7	<1.0	<1.0	<1.0
MP-12	10/28/2011	SSPL VOCs	78	4.4 J	4.5 J	<5.0
	12/20/2011	SSPL VOCs	77	3.9 J	4.5 J	<5.0
	02/15/2012	SSPL VOCs	51	2.8 J	2.7 J	<5.0
	04/19/2012	SSPL VOCs	36	2.1 J	2.2J	<5.0
	06/19/2012	SSPL VOCs	28	1.6 J	1.4 J	<5.0
	09/19/2012	SSPL VOCs	79	3.7 J	2.9 J	<5.0
	12/18/2012	SSPL VOCs	48	2.7 J	2.5 J	<5.0
	03/14/2013	SSPL VOCs	34	1.8 J	2.0 J	<5.0
	09/04/2013	SSPL VOCs	49	2.7 J	2.2 J	<5.0
	03/18/2014	SSPL VOCs	27	1.4 J	1.9 J	<5.0
	09/18/2014	SSPL VOCs	31	1.2 J	1.1 J	<5.0
	03/16/2015	SSPL VOCs	26	0.88 J	0.93 J	<5.0
	09/21/2015	SSPL VOCs	15	0.54 J	0.78 J	<5.0
	03/15/2016	SSPL VOCs	13	0.44 J	0.71 J	<5.0
	09/13/2016	SSPL VOCs	<1.0	<1.0	<1.0	<1.0
	03/23/2017	SSPL VOCs	17	<1.0	<1.0	<1.0
	09/12/2017	SSPL VOCs	4.6	<2.0	<2.0	<2.0
MP-13	10/28/2011	SSPL VOCs	< 5.0	1.2 J	< 5.0	<5.0
	12/19/2011	SSPL VOCs	1.2 J	0.9 J	<5.0	<5.0
	02/15/2012	SSPL VOCs	3.7 J	0.50 J	<5.0	<5.0
	04/18/2012	SSPL VOCs	0.82 J	0.38 J	<5.0	<5.0
	06/19/2012	SSPL VOCs	0.6 J	0.51 J	<5.0	<5.0
	09/20/2012	SSPL VOCs	<5.0	0.51	<5.0	<5.0
	12/21/2012	SSPL VOCs	0.61 J	0.41 J	<5.0	<5.0
	09/25/2013	SSPL VOCs	<5.0	0.32 J	<5.0	<5.0
	09/17/2014	SSPL VOCs	<5.0	0.33 J	<5.0	<5.0
	09/22/2015	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/13/2016	SSPL VOCs	<1.0	<1.0	<1.0	<1.0
	09/11/2017	SSPL VOCs	<1.0	0.26 J	<1.0	<1.0
MP-14	10/31/2011	SSPL VOCs	30	1.6 J	0.98 J	< 5.0
	12/21/2011	SSPL VOCs	37	2.0 J	1.1 J	< 5.0
	02/15/2012	SSPL VOCs	29	1.7 J	1.3 J	<5.0
	04/19/2012	SSPL VOCs	25	1.2 J	1.1 J	<5.0
	06/20/2012	SSPL VOCs	30	1.6 J	1.2 J	<5.0
	09/20/2012	SSPL VOCs	30	1.6 J	1.1 J	<5.0
	12/18/2012	SSPL VOCs	27	1.5 J	1.2 J	< 5.0
	03/14/2013	SSPL VOCs	32	1.6 J	1.6 J	<5.0
	09/05/2013	SSPL VOCs	32	1.5 J	1.2 J	< 5.0
	03/19/2014	SSPL VOCs	37	1.9 J	1.9 J	<5.0
	09/18/2014	SSPL VOCs	45	1.9 J	1.2 J	<5.0
	03/16/2015	SSPL VOCs	53	1.7 J	1.2 J	<5.0
	09/21/2015	SSPL VOCs	50	0.71 J	0.66 J	<5.0
	03/16/2016	SSPL VOCs	89	1.9	1.3	<5.0
	09/14/2016	SSPL VOCs	10	<1.0	<1.0	<1.0
	09/12/2017	SSPL VOCs	26	0.38 J	<1.0	<1.0
IJ-1	01/30/2006	SSPL VOCs	<50	<50	<50	<50
	12/20/2011	SSPL VOCs	180	1.6 J	1 J	<5.0
	02/14/2012	SSPL VOCs	180D	2.0 DJ	1.2 DJ	<10
	04/18/2012	SSPL VOCs	<10	<10	<10	<10
	06/21/2012	SSPL VOCs	< 5.0	< 5.0	< 5.0	< 5.0
	09/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/03/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/17/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/22/2015	SSPL VOCs	<50	<50	<50	<50
	09/13/2016	SSPL VOCs	<10	<10	<10	<10
	09/12/2017	SSPL VOCs	<10	<10	<10	<10
IJ-2	01/30/2006	SSPL VOCs	15J	<25	<25	<25
IJ-3	01/30/2006	SSPL VOCs	10	3.5J	<10	<10
IJ-4	01/30/2006	SSPL VOCs	6,700	40J	55J	<250
	12/21/2011	SSPL VOCs	7,300	100 J	200 J	<250
	02/15/2012	SSPL VOCs	7,200	120 J	240 J	<250
	04/18/2012	SSPL VOCs	<10	<10	<10	<10
	06/21/2012	SSPL VOCs	1200 D	4.0 J	2.8 J	<10
	09/19/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/14/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/04/2013	SSPL VOCs	<10	<10	<10	<10
	03/18/2014	SSPL VOCs	190	0.39 J	0.34 J	<5.0
	09/17/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/17/2015	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/22/2015	SSPL VOCs	<25	<25	<25	<25
	03/15/2016	SSPL VOCs	<25	<25	<25	<25
	09/13/2016	SSPL VOCs	<2.5	<2.5	<2.5	<2.5
	03/23/2017	SSPL VOCs	<10	<10	<10	<10
	09/12/2017	SSPL VOCs	<10	<10	<10	<10
IJ-5	01/30/2006	SSPL VOCs	<5.0	6.7	8.5	<5.0
	12/21/2011	SSPL VOCs	0.90 J	<5.0	<5.0	<5.0
	02/15/2012	SSPL VOCs	0.44 J	<5.0	<5.0	<5.0
	04/19/2012	SSPL VOCs	< 5.0	<5.0	<5.0	<5.0
	06/20/2012	SSPL VOCs	0.22 J	<5.0	<5.0	<5.0
	09/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/18/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/15/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/05/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/19/2014	SSPL VOCs	0.32 J	<5.0	<5.0	<5.0
	09/18/2014	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
IJ-6	01/30/2006	SSPL VOCs	390	4 J	9.7J	<13
IJ-10	10/28/2011	SSPL VOCs	200	150	380.7 J	1.1 J
	12/20/2011	SSPL VOCs	310	110	302.5 J	2.0 J
	02/14/2012	SSPL VOCs	230	88	364.1 J	3.0 J
	04/18/2012	SSPL VOCs	<13	<13	<13	<13
	06/21/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	12/20/2012	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	03/14/2013	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/03/2013	SSPL VOCs	2.0 J	<5.0	<5.0	<5.0
	03/19/2014	SSPL VOCs	0.92 J	<5.0	<5.0	<5.0
	09/17/2014	SSPL VOCs	1.5 J	<5.0	<5.0	<5.0
	03/17/2015	SSPL VOCs	<5.0	<5.0	<5.0	<5.0
	09/22/2015	SSPL VOCs	<50	<50	<50	<50
	03/15/2016	SSPL VOCs	<50 (<50)	<50 (<50)	<50 (<50)	<50 (<50)
	09/13/2016	SSPL VOCs	<10	<10	<10	<10
	03/23/2017	SSPL VOCs	7.6 J	<10	<10	<10
	09/12/2017	SSPL VOCs	<10	<10	<10	<10

Notes:

= Baseline sample before full-scale ISCO system initiation

J = Estimated concentration

D = Dilution

1,2 DCE = Sum of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene isomers

PCE = Tetrachloroethene

< = Compound not detected above laboratory reporting limit given

TCE = Trichloroethene

NS = Not sampled

µg/L = Micrograms per liter

SSPL VOCs VOCs = Site specific parameter list volatile organic compounds

( ) = Data in parentheses indicates duplicate result

Table 5 2017 Groundwater Monitoring Matrix, Former Dover Electronics Site, Kirkwood, New York

Monitoring Well ID	Water Bearing Unit	DISCONTINUED - Well Formerly Included in Quarterly Field Parameter Collection Program	Well Included in Semi-Annual Sampling Program (March)	Well Included in Annual Sampling Program (Sept.) *
MW-2	Shallow		X	
MW-3	Shallow			X
MW-5	Shallow			
MW-6	Intermediate			
MW-7A	Shallow	X	X	X
MW-8	Intermediate			
MW-9	Shallow			
MW-11	Intermediate			
MW-12	Intermediate			
MW-13	Shallow			X
MW-14	Intermediate			
MW-15	Shallow			
MW-16	Shallow	X	X	X
MW-17	Shallow			
MW-18	Shallow			
MW-19	Shallow			X
MW-20	Abandoned			
MW-21	Intermediate			
MW-22	Intermediate			
MW-23	Shallow			
MW-24	Shallow			X
MW-25	Intermediate		X	X
MW-26	Intermediate			X
MW-27	Shallow			X
MW-28	Shallow		X	X
MW-29	Shallow			
MW-30	Shallow			X
MW-31	Shallow			X
MW-32	Shallow			X
MW-33	Shallow			
MW-34	Deep			
MW-35	Intermediate			X
MW-36	Shallow			
MW-37	Intermediate			X
MW-38	Intermediate			X
MP-1	Shallow			
MP-2	Shallow			
MP-3D	Intermediate			
MP-4	Shallow	X	X	X
MP-5	Shallow	X	X	X
MP-6S	Shallow	X	X	X
MP-6D	Intermediate			X
MP-7	Abandoned			
MP-8S	Shallow			X
MP-8D	Intermediate			X
MP-9	Abandoned			
MP-10S	Abandoned			
MP-10D	Abandoned			
MP-11	Shallow	X	X	X
MP-12	Shallow	X	X	X
MP-13	Shallow	X		X
MP-14	Shallow	X	X	X
IJ-1	Shallow	X		X
IJ-2	Shallow			
IJ-3	Shallow			
IJ-4	Shallow	X	X	X
IJ-5	Shallow			
IJ-6	Shallow-Intermediate	X		
IJ-7	Shallow			
IJ-8	Shallow			
IJ-9	Shallow			
IJ-10	Shallow	X	X	X

Notes:

X = Well is sampled according to the frequency noted at the top of the respective column.

* = The second semi-annual sampling event will be combined with the annual sampling event in September.

Table 6 2017 Summary of Residual Permanganate Concentrations in Groundwater, Former Dover Electronics Site, Kirkwood, New York

Monitoring Well ID	Water Bearing Unit	Permanganate Concentration March 2017 (mg/L)	Permanganate Concentration September 2017 (mg/L)
MW-2	Shallow	NA	NS
MW-3	Shallow	NS	0.8
MW-5	Shallow	NS	NS
MW-6	Intermediate	NS	NS
MW-7A	Shallow	188.1	114.8
MW-8	Intermediate	NS	NS
MW-9	Shallow	NS	NS
MW-11	Intermediate	NS	NS
MW-12	Intermediate	NS	NS
MW-13	Shallow	NS	NA
MW-14	Intermediate	NS	NS
MW-15	Shallow	NS	NS
MW-16	Shallow	158.4	188.5
MW-17	Shallow	NS	NS
MW-18	Shallow	NS	NS
MW-19	Shallow	NS	NA
MW-20	Abandoned	NS	NS
MW-21	Intermediate	NS	NS
MW-22	Intermediate	NS	NS
MW-23	Shallow	NS	NS
MW-24	Shallow	NS	349.2
MW-25	Intermediate	NA	165.1
MW-26	Intermediate	NS	NA
MW-27	Shallow	NS	NA
MW-28	Shallow	260	157.3
MW-29	Shallow	NS	NS
MW-30	Shallow	NS	NA
MW-31	Shallow	NS	NA
MW-32	Shallow	NS	NA
MW-33	Shallow	NS	NS
MW-34	Deep	NS	NS
MW-35	Intermediate	NS	NA
MW-36	Shallow	NS	NS
MW-37	Intermediate	NS	NA
MW-38	Intermediate	NS	NA
MP-1	Shallow	NS	NS
MP-2	Shallow	NS	NS
MP-3D	Intermediate	NS	NS
MP-4	Shallow	120.6	122.4
MP-5	Shallow	206.8	272.4
MP-6S	Shallow	118.8	2.8
MP-6D	Intermediate	NS	NA
MP-7	Abandoned	NS	NS
MP-8S	Shallow	NS	NA
MP-8D	Intermediate	NS	NA
MP-9	Abandoned	NS	NS
MP-10S	Abandoned	NS	NS
MP-10D	Abandoned	NS	NS
MP-11	Shallow	NS	175.5
MP-12	Shallow	181.8	169.6
MP-13	Shallow	NS	NA
MP-14	Shallow	NA	96
IJ-1	Shallow	NS	126
IJ-2	Shallow	NS	NS
IJ-3	Shallow	NS	NS
IJ-4	Shallow	373.8	271.2
IJ-5	Shallow	NS	NS
IJ-6	Shallow-Intermediate	NS	NS
IJ-7	Shallow	NS	NS
IJ-8	Shallow	NS	NS
IJ-9	Shallow	NS	NS
IJ-10	Shallow	206	209

Notes:

mg/L = Miligrams per liter

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

NS = Well not sampled during given sampling event

Table 7 Summary of SSPL VOC Groundwater Analytical Results - MP-1, 2, 3D
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-1		MP-2			
Sampling Date		3/18/2010		3/18/2010		12/21/2012	
Laboratory ID	NYSDEC	R1001332-047		R1001332-048		R1208755-026	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.45	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.64	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.59	U	0.57	U
Tetrachloroethene	5	0.43	U	**10**		2.50	J
Trichloroethene	5	0.63	U	0.63	U	0.22	U
Vinyl Chloride	2	0.52	U	0.52	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.48	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.45	U	0.33	U

Sample Location		MP-3D					
Sampling Date		3/18/2010		9/23/2013		9/18/2014	
Laboratory ID	NYSDEC	R1001332-051		R1207148-002		R1407413-014	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.22	U	0.22	U
Vinyl Chloride	2	0.52	U	0.40	J	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	1.2	J	0.85	J
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-4
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-4									
Sampling Date		3/16/2010		12/19/2011		2/15/2012		4/18/2012		6/19/2012	
Laboratory ID	NYSDEC	R1001332-030		R1107129-004		R1201111-011		R1202511-007		R1203991-003	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	23	U	23	U	12	U	12	U	12	U
1,1-Dichloroethane	5	32	U	20	U	10	U	10	U	10	U
1,1-Dichloroethene	5	30	U	29	U	15	U	15	U	15	U
Tetrachloroethene	5	**9500**		**11000**		**6500**		**6600**		**8200**	
Trichloroethene	5	32	U	**32**	J	12	U	12	U	12	U
Vinyl Chloride	2	26	U	23	U	12	U	12	U	12	U
cis-1,2-Dichloroethene	5	24	U	20	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	5	23	U	20	U	10	U	10	U	10	U

Sample Location		MP-4									
Sampling Date		9/19/2012		12/20/2012		3/14/2013		DUP-031413		9/4/2013	
Laboratory ID	NYSDEC	R1206380-003		R1208755-018		R1301745-008		R1301745-015		R1306560-008	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	36	U	18	U	18	U	18	U	36	U
1,1-Dichloroethane	5	20	U	10	U	10	U	10	U	20	U
1,1-Dichloroethene	5	57	U	29	U	29	U	29	U	57	U
Tetrachloroethene	5	**11000**	D	**7700**		**8600**		**9000**		**13000**	D
Trichloroethene	5	22	U	11	U	11	U	**12**	J	**26**	DJ
Vinyl Chloride	2	32	U	16	U	16	U	16	U	32	U
cis-1,2-Dichloroethene	5	30	U	15	U	15	U	15	U	30	U
trans-1,2-Dichloroethene	5	33	U	17	U	17	U	17	U	33	U

Sample Location		MP-4									
Sampling Date		3/19/2014		9/17/2014		3/17/2015		9/22/2015		DUP-092215	
Laboratory ID	NYSDEC	R1402018-009		R1407413-005		R1501913-016		R1507987-025		R1507987-033	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	36	U	36	U	36	U	3.6	U	3.6	U
1,1-Dichloroethane	5	20	U	20	U	20	U	2.0	U	2.0	U
1,1-Dichloroethene	5	57	U	57	U	57	U	5.7	U	5.7	U
Tetrachloroethene	5	**11000**		**12000**		**10000**		**970**		**1200**	
Trichloroethene	5	22	U	22	U	22	U	2.2	U	2.2	U
Vinyl Chloride	2	32	U	32	U	32	U	3.2	U	3.2	U
cis-1,2-Dichloroethene	5	30	U	30	U	30	U	3.0	U	3.0	U
trans-1,2-Dichloroethene	5	33	U	33	U	33	U	3.4	U	3.4	U

Sample Location		MP-4									
Sampling Date		3/16/2016		9/14/2016		DUP-091416		3/21/2017		DUP-032117-02	
Laboratory ID	NYSDEC	R1602496-015		R1609765-002		R1609765-013		R1702492-011		R1702492-015	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	1.8	U	3.6	U	3.6	U	3.6	U	3.6	U
1,1-Dichloroethane	5	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	5	2.9	U	5.7	U	5.7	U	5.7	U	5.7	U
Tetrachloroethene	5	**3000**	D	**1400**		**1300**		**2500**	**D**	**2800**	**D**
Trichloroethene	5	1.1	U	2.2	U	2.2	U	2.2	U	2.2	U
Vinyl Chloride	2	1.6	U	3.2	U	3.2	U	3.2	U	3.2	U
cis-1,2-Dichloroethene	5	1.5	U	3.0	U	3.0	U	3.0	U	3.0	U
trans-1,2-Dichloroethene	5	1.7	U	3.3	U	3.3	U	3.3	U	3.3	U

Sample Location		MP-4			
Sampling Date		9/13/2017		DUP-091317	
Laboratory ID	NYSDEC	R1708648-014		R1708648-016	
Units	GWQS	µg/L		µg/L	
Volatile Organic Compounds					
1,1,1-Trichloroethane	5	1.8	U	1.8	U
1,1-Dichloroethane	5	1.0	U	1.0	U
1,1-Dichloroethene	5	2.9	U	2.9	U
Tetrachloroethene	5	**820**		**610**	
Trichloroethene	5	1.1	U	1.1	U
Vinyl Chloride	2	1.6	U	1.6	U
cis-1,2-Dichloroethene	5	1.5	U	1.5	U
trans-1,2-Dichloroethene	5	1.7	U	1.7	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-5
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-5									
Sampling Date		3/17/2010		12/19/2011		2/16/2012		4/18/2012		6/19/2012	
Laboratory ID	NYSDEC	R1001332-036		R1107129-003		R1201111-015		R1202511-005		R1203991-002	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	2.3	U	2.4	U	2.4	U	1.2	U	1.2	U
1,1-Dichloroethane	5	3.2	U	2.0	U	2.0	U	1.0	U	1.0	U
1,1-Dichloroethene	5	3.0	U	2.9	U	3.2	DJ	3.1	J	3.3	J
Tetrachloroethene	5	**860.0**		**1100.0**	D	**830.0**	D	**730**		**950**	
Trichloroethene	5	**28.0**		**46.0**	DJ	**29.0**	DJ	**32**		**42**	
Vinyl Chloride	2	**6.7**	J	**8.9**	DJ	**8.5**	DJ	**11**	J	**6.6**	J
cis-1,2-Dichloroethene	5	**31**		**43**	DJ	**27**	DJ	**33**		**29**	
trans-1,2-Dichloroethene	5	2.3	U	2.0	U	2.0	U	1.0	U	1.0	U

Sample Location		MP-5									
Sampling Date		9/20/2012		DUP-092012		12/20/2012		3/14/2013		9/3/2013	
Laboratory ID	NYSDEC	R1206830-011		R1206380-019		R1208755-016		R1301745-006		R1306560-002	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
1,1-Dichloroethane	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	5	2.9	U	2.9	U	2.9	U	2.9	U	3.0	J
Tetrachloroethene	5	**710**		**750**		**620.0**		**920**		**970.0**	
Trichloroethene	5	**29**		**31**		**25.0**		**28**		**36.0**	
Vinyl Chloride	2	**3.0**	J	**3.9**	J	2.0	J	**3.0**	J	**4.1**	J
cis-1,2-Dichloroethene	5	**21**	J	**23**	J	**15**	J	**19**	J	**23**	J
trans-1,2-Dichloroethene	5	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U

Sample Location		MP-5									
Sampling Date		3/19/2014		DUP-031914		9/17/2014		3/17/2015		9/21/2015	
Laboratory ID	NYSDEC	R1402018-012		R1402018-015		R1407413-003		R1501913-010		R1507987-019	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	3.6	U	1.8	U	1.8	U	1.8	U	0.36	U
1,1-Dichloroethane	5	2.0	U	1.0	U	1.0	U	1.0	U	0.20	U
1,1-Dichloroethene	5	5.7	U	3.1	J	2.9	U	2.9	U	0.57	U
Tetrachloroethene	5	**940.0**		**940.0**		**890.0**		1.5	U	**11**	
Trichloroethene	5	**33.0**	J	**33.0**		**32.0**		1.1	U	0.22	U
Vinyl Chloride	2	**4.7**	J	**5.1**	J	1.7	J	1.6	U	0.32	U
cis-1,2-Dichloroethene	5	**20**	J	**20**	J	**14**	J	1.5	U	0.30	U
trans-1,2-Dichloroethene	5	3.4	U	1.7	U	1.7	U	1.7	U	0.33	U

Sample Location		MP-5							
Sampling Date		3/15/2016		9/13/2016		3/20/2017		9/13/2017	
Laboratory ID	NYSDEC	R1602496-008		R1609682-015		R1702492-002		R1708648-012	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.36	U	0.90	U	0.90	U	0.72	U
1,1-Dichloroethane	5	0.20	U	0.50	U	0.50	U	0.40	U
1,1-Dichloroethene	5	0.57	U	1.5	U	1.5	U	1.2	U
Tetrachloroethene	5	**280**	D	0.75	U	**29**		**7.8**	
Trichloroethene	5	0.58	J	0.55	U	0.55	U	0.44	U
Vinyl Chloride	2	0.32	U	0.80	U	0.80	U	0.64	U
cis-1,2-Dichloroethene	5	0.30	U	0.75	U	0.75	U	0.60	U
trans-1,2-Dichloroethene	5	0.33	U	0.83	U	0.83	U	0.66	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-6D
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-6D									
Sampling Date		3/17/2010		12/19/2011		2/16/2012		4/18/2012		6/19/2012	
Laboratory ID	NYSDEC	R1001332-037		R1107129-002		R1201111-014		R1202511-003		R1203991-005	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	1.2	U	0.23	U	0.23	U	0.23	U	0.23	U
1,1-Dichloroethane	5	1.6	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	1.5	U	0.29	U	0.29	U	0.29	U	0.29	U
Tetrachloroethene	5	1.1	U	0.28	J	**15**		0.23	U	0.23	U
Trichloroethene	5	1.6	U	0.23	U	0.20	U	0.20	U	0.20	U
Vinyl Chloride	2	1.3	U	0.23	U	0.23	U	0.23	U	0.23	U
cis-1,2-Dichloroethene	5	1.2	U	0.20	U	0.20	U	0.20	U	0.20	U
trans-1,2-Dichloroethene	5	1.2	U	0.20	U	0.20	U	0.20	U	0.20	U

Sample Location		MP-6D									
Sampling Date		9/20/2012		12/21/2012		3/14/2013		9/5/2013		3/20/2014	
Laboratory ID	NYSDEC	R1206380-009		R1208755-024		R1301745-012		R1306560-018		R1402018-019	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U	0.30	U	1.30	J	0.37	J
Trichloroethene	5	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MP-6D							
Sampling Date		9/17/2014		9/20/2015		9/12/2016		9/12/2017	
Laboratory ID	NYSDEC	R1407413-009		R1507987-008		R1609682-005		R1708647-014	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	1.40	J	0.54	J	0.30	U	0.33	J
Trichloroethene	5	0.22	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-6S
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-6S									
Sampling Date		3/17/2010		12/19/2011		BD-121911		2/16/2012		4/18/2012	
Laboratory ID	NYSDEC	R1001332-038		R1107129-001		R1107129-008		R1201111-013		R1202511-002	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	4.5	U	2.4	U	2.4	U	2.4	U	2.4	U
1,1-Dichloroethane	5	6.4	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	5	5.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Tetrachloroethene	5	**1100.0**		**1500.0**		**1000.0**		**1200**		**980**	
Trichloroethene	5	**6.3**	U	**8.0**	J	**6.3**	J	**7.8**	J	**5.9**	J
Vinyl Chloride	2	5.2	U	2.4	U	2.4	U	2.4	U	2.4	U
cis-1,2-Dichloroethene	5	4.8	U	**5.4**	J	4.7	J	**5.5**	J	**5.1**	J
trans-1,2-Dichloroethene	5	4.5	U	2.0	U	2.0	U	2.0	U	2.0	U

Sample Location		MP-6S									
Sampling Date		6/19/2012		9/19/2012		12/20/2012		3/14/2013		9/3/2013	
Laboratory ID	NYSDEC	R1203991-004		R1206380-005		R1208755-021		R1301745-010		R1306560-005	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	2.4	U	1.8	U	0.90	U	1.8	U	1.8	U
1,1-Dichloroethane	5	2.0	U	1.0	U	0.50	U	1.0	U	1.0	U
1,1-Dichloroethene	5	2.9	U	2.9	U	1.5	U	2.9	U	2.9	U
Tetrachloroethene	5	**970**		**920**		**420**		**750**	D	**590**	
Trichloroethene	5	**6.1**	J	**6.5**	J	4.2	J	4.5	DJ	2.2	J
Vinyl Chloride	2	2.4	U	1.6	U	0.80	U	1.6	U	1.6	U
cis-1,2-Dichloroethene	5	3.6	J	4.8	J	3.0	J	3.2	DJ	1.5	U
trans-1,2-Dichloroethene	5	2.0	U	1.7	U	0.83	U	1.7	U	1.7	U

Sample Location		MP-6S									
Sampling Date		3/19/2014		9/17/2014		3/17/2015		9/21/2015		3/16/2016	
Laboratory ID	NYSDEC	R1402018-014		R1407413-006		R1501913-013		R1507987-018		R1602496-012	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.90	U	0.90	U	0.90	U	0.90	U	0.36	U
1,1-Dichloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.20	U
1,1-Dichloroethene	5	1.5	U	1.5	U	1.5	U	1.5	U	0.57	U
Tetrachloroethene	5	**470**		**450**		**270**		**290**		**290**	D
Trichloroethene	5	2.7	J	3.4	J	1.1	J	1.5	J	1.0	
Vinyl Chloride	2	0.80	U	0.80	U	0.80	U	0.80	U	0.32	U
cis-1,2-Dichloroethene	5	1.4	J	1.8	J	0.75	U	1.4	J	0.81	J
trans-1,2-Dichloroethene	5	0.75	U	0.83	U	0.83	U	0.83	U	0.33	U

Sample Location		MP-6S							
Sampling Date		9/13/2016		3/21/2017		DUP-032117		9/12/2017	
Laboratory ID	NYSDEC	R1609682-018		R1702492		R1702492-014		R1078648-002	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.90	U	0.72	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.50	U	0.40	U	0.20	U	0.20	U
1,1-Dichloroethene	5	1.5	U	1.2	U	0.57	U	0.57	U
Tetrachloroethene	5	**260**		**200**		**200**		**280**	D
Trichloroethene	5	1.8	J	0.66	J	0.73	J	2.3	
Vinyl Chloride	2	0.80	U	0.64	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	2.3	J	0.60	U	0.57	J	2.30	
trans-1,2-Dichloroethene	5	0.83	U	0.66	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-8D
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-8D									
Sampling Date		3/15/2010		12/20/2011		3/16/2012		DUP-031612		6/20/2012	
Laboratory ID	NYSDEC	R1001332-022		R1107129-011		R1201757-007		R1201757-008		R1203991-017	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.23	U	0.23	U	0.23	U	0.23	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.29	U	0.29	U	0.29	U	0.29	U
Tetrachloroethene	5	0.43	U	0.45	J	0.20	U	0.20	U	0.20	U
Trichloroethene	5	0.63	U	0.23	U	0.23	U	0.23	U	0.23	U
Vinyl Chloride	2	0.52	U	0.23	U	0.23	U	0.23	U	0.23	U
cis-1,2-Dichloroethene	5	0.48	U	0.20	U	0.20	U	0.20	U	0.20	U
trans-1,2-Dichloroethene	5	0.45	U	0.20	U	0.20	U	0.20	U	0.20	U

Sample Location		MP-8D									
Sampling Date		9/21/2012		12/19/2012		9/23/2013		9/19/2014		9/21/2015	
Laboratory ID	NYSDEC	R1206380-022		R1208755-007		R1307148-004		R1407413-030		R1507987-013	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.89	J	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MP-8D			
Sampling Date		9/13/2016		9/12/2017	
Laboratory ID	NYSDEC	R1609682-007		R1708647-012	
Units	GWQS	µg/L		µg/L	
Volatile Organic Compounds					
1,1,1-Trichloroethane	5	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U
Trichloroethene	5	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-8S
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-8S									
Sampling Date		3/15/2010		12/20/2011		3/16/2012		6/20/2012		9/21/2012	
Laboratory ID	NYSDEC	R1001332-016		R1107129-012		R1201757-006		R1203991-014		R1206380-021	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.23	U	0.23	U	0.23	U	5	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	1.4	J	1.3	J	0.95	J	1.1	J	1.3	J
Tetrachloroethene	5	**13**		**49**		**31**		**31**		**64**	
Trichloroethene	5	**36**		**51**		**34**		**58**		**63**	
Vinyl Chloride	2	1.5	J	1.9	J	1.5	J	1.7	J	1.7	J
cis-1,2-Dichloroethene	5	**69**		**81**		**64**		**86**		**93**	
trans-1,2-Dichloroethene	5	**6.6**		**7.5**		**5.6**		**5.6**		**9.0**	

Sample Location		MP-8S									
Sampling Date		12/19/2012		3/15/2013		9/4/2013		9/19/2014		9/21/2015	
Laboratory ID	NYSDEC	R1208755-010		R1301745-021		R1306560-012		R1407413-028		R1507987-015	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	1.4	J	1.3	J	1.2	J	0.88	J	0.57	U
Tetrachloroethene	5	**51**		**68**		**68**		**65**		**23**	
Trichloroethene	5	**59**		**61**		**61**		**59**		**25**	
Vinyl Chloride	2	1.8	J	1.9	J	1.2	J	0.84	J	0.46	J
cis-1,2-Dichloroethene	5	**79**		**87**		**85**		**81**		**64**	
trans-1,2-Dichloroethene	5	**7.3**		**7.9**		**7.3**		**6.3**		3.7	J

Sample Location		MP-8S			
Sampling Date		9/13/2016		9/12/2017	
Laboratory ID	NYSDEC	R1609682-010		R1708647-009	
Units	GWQS	µg/L		µg/L	
Volatile Organic Compounds					
1,1,1-Trichloroethane	5	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U
1,1-Dichloroethene	5	0.69	J	0.64	J
Tetrachloroethene	5	**25**		**26**	
Trichloroethene	5	**30**		**32**	
Vinyl Chloride	2	0.36	J	0.74	J
cis-1,2-Dichloroethene	5	**52**		**78**	
trans-1,2-Dichloroethene	5	3.1		4.9	

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-10D
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-10D									
Sampling Date		3/15/2010		12/20/2011		3/15/2012		6/20/2012		9/21/2012	
Laboratory ID	NYSDEC	R1001332-017		R1107129-013		R1201757-005		R1203991-018		R1206380-025	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.23	U	0.23	U	0.23	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.29	U	0.29	U	0.29	U	0.57	U
Tetrachloroethene	5	0.43	U	0.20	U	0.20	U	0.20	U	0.30	U
Trichloroethene	5	0.63	U	0.23	U	0.23	U	0.23	U	0.22	U
Vinyl Chloride	2	0.52	U	0.23	U	0.23	U	0.23	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.20	U	0.20	U	0.20	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.20	U	0.20	U	0.20	U	0.33	U

Sample Location		MP-10D			
Sampling Date		12/19/2012		9/23/2013	
Laboratory ID	NYSDEC	R1208755-012		R1307148-003	
Units	GWQS	µg/L		µg/L	
Volatile Organic Compounds					
1,1,1-Trichloroethane	5	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U
Trichloroethene	5	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-11
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-11									
Sampling Date		10/28/2011		12/19/2011		2/15/2012		4/19/2012		6/21/2012	
Laboratory ID	NYSDEC	R1106103-002		R1107129-007		R1201111-005		R1202511-012		R1203991-023	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.29	U	0.29	J	0.29	U	0.31	J
Tetrachloroethene	5	**11**		**25**		**32**		**41**		**52**	
Trichloroethene	5	0.28	J	0.36	J	0.36	J	0.34	J	0.49	J
Vinyl Chloride	2	**9.2**		**18**		**22**		**32**		**31**	
cis-1,2-Dichloroethene	5	**5.4**		**15**		**24**		**30**		**29**	
trans-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.23	J

Sample Location		MP-11									
Sampling Date		9/19/2012		12/18/2012		3/13/2013		9/4/2013		3/18/2014	
Laboratory ID	NYSDEC	R1206380-004		R1208755-001		R1301745-002		R1306560-013		R1402018-002	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.4	U	0.36	U	0.72	U	0.72	U
1,1-Dichloroethane	5	0.20	U	0.2	U	0.20	U	0.40	U	0.40	U
1,1-Dichloroethene	5	0.57	U	0.6	U	0.57	U	1.2	U	1.2	U
Tetrachloroethene	5	**86**		**110**		**170**		**200**	D	**220**	
Trichloroethene	5	0.99	J	1.0	J	1.4	J	1.8	DJ	1.6	J
Vinyl Chloride	2	**32**		**44**		**23**		**26**	D	**17**	
cis-1,2-Dichloroethene	5	**38**		**50**		**52**		**43**	D	**34**	
trans-1,2-Dichloroethene	5	0.33	U	0.35	J	0.36	J	0.80	DJ	0.66	U

Sample Location		MP-11									
Sampling Date		9/17/2014		3/16/2015		9/22/2015		3/15/2016		9/13/2016	
Laboratory ID	NYSDEC	R1407413-010		R1501913-004		R1507987-028		R1602496-003		R1609682-013	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	1.8	U	1.8	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	1.0	U	1.0	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	2.9	U	2.9	U	0.57	U
Tetrachloroethene	5	3.1	J	**67**		1.5	U	3.4	J	4.1	
Trichloroethene	5	0.22	U	0.22	U	1.1	U	1.1	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	1.6	U	1.6	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	2.3	J	1.5	J	1.5	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	1.7	U	1.7	U	0.33	U

Sample Location		MP-11	
Sampling Date		9/13/2017	
Laboratory ID	NYSDEC	R1708648-015	
Units	GWQS	µg/L	
Volatile Organic Compounds			
1,1,1-Trichloroethane	5	0.36	U
1,1-Dichloroethane	5	0.20	U
1,1-Dichloroethene	5	0.57	U
Tetrachloroethene	5	**7.7**	
Trichloroethene	5	0.22	U
Vinyl Chloride	2	0.32	U
cis-1,2-Dichloroethene	5	0.30	U
trans-1,2-Dichloroethene	5	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-12
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-12									
Sampling Date		10/28/2011		12/20/2011		2/15/2012		4/19/2012		6/19/2012	
Laboratory ID	NYSDEC	R1106103-001		R1107129-016		R1201111-007		R1202511-014		R1203991-008	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
Tetrachloroethene	5	**78**		**77**		**51**		**36**		**28**	
Trichloroethene	5	4.4	J	3.9	J	2.8	J	2.1	J	1.6	J
Vinyl Chloride	2	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
cis-1,2-Dichloroethene	5	4.5	J	4.5	J	2.7	J	2.2	J	1.4	J
trans-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Sample Location		MP-12									
Sampling Date		9/19/2012		12/18/2012		3/14/2013		9/4/2013		3/18/2014	
Laboratory ID	NYSDEC	R1206380-002		R1208755-002		R1301745-011		R1306560-016		R1402018-005	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**79**		**48**		**34**		**49**		**27**	
Trichloroethene	5	3.7	J	2.7	J	1.8	J	2.7	J	1.4	J
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	2.9	J	2.5	J	2.0	J	2.2	J	1.9	J
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MP-12									
Sampling Date		9/18/2014		3/16/2015		9/21/2015		3/15/2016		9/13/2016	
Laboratory ID	NYSDEC	R1407413-016		R1501913-006		R1507987-017		R1602496-007		R1609682-017	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**31**		**26**		**15**		**13**		0.30	U
Trichloroethene	5	1.2	J	0.88	J	0.54	J	0.44	J	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.1	J	0.93	J	0.78	J	0.71	J	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MP-12			
Sampling Date		3/20/2017		9/13/2017	
Laboratory ID	NYSDEC	R1702492		R107648-008	
Units	GWQS	µg/L		µg/L	
Volatile Organic Compounds					
1,1,1-Trichloroethane	5	0.36	U	0.72	U
1,1-Dichloroethane	5	0.20	U	0.40	U
1,1-Dichloroethene	5	0.57	U	1.20	U
Tetrachloroethene	5	**17**		**4.6**	
Trichloroethene	5	0.22	U	0.44	U
Vinyl Chloride	2	0.32	U	0.64	U
cis-1,2-Dichloroethene	5	0.30	U	0.60	U
trans-1,2-Dichloroethene	5	0.33	U	0.66	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-13
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-13									
Sampling Date		10/28/2011		12/19/2011		2/15/2012		4/18/2012		6/19/2012	
Laboratory ID	NYSDEC	R1106103-004		R1107129-005		R1201111-008		R1202511-009		R1203991-006	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
Tetrachloroethene	5	0.20	U	1.2	J	3.7	J	0.82	J	0.60	J
Trichloroethene	5	1.2	J	0.90	J	0.50	J	0.38	J	0.50	J
Vinyl Chloride	2	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
cis-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
trans-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Sample Location		MP-13									
Sampling Date		DUP-061912		9/20/2012		12/21/2012		9/25/2013		9/17/2014	
Laboratory ID	NYSDEC	R1203991-010		R1206380-008		R1208755-023		R1307148-017		R1407413-012	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.50	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.44	J	0.30	U	0.61	J	0.30	U	0.30	U
Trichloroethene	5	0.51	J	0.51	J	0.41	J	0.32	J	0.33	J
Vinyl Chloride	2	0.23	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.20	U	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.20	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MP-13					
Sampling Date		9/22/2015		9/13/2016		9/11/2017	
Laboratory ID	NYSDEC	R1507987-022		R1609682-008		R1708647-002	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.22	U	0.22	U	0.26	J
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MP-14
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MP-14									
Sampling Date		10/31/2011		12/21/2011		2/15/2012		DUP-021512		4/19/2012	
Laboratory ID	NYSDEC	R1106103-007		R1107129-025		R1201111-009		R120111-019		R1202511-015	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
Tetrachloroethene	5	**30**		**37**		**29**		**27**		**25**	
Trichloroethene	5	1.6	J	2.0	J	1.7	J	1.5	J	1.2	J
Vinyl Chloride	2	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
cis-1,2-Dichloroethene	5	0.98	J	1.1	J	1.2	J	1.3	J	1.1	J
trans-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Sample Location		MP-14									
Sampling Date		6/20/2012		9/20/2012		12/18/2012		3/14/2013		9/5/2013	
Laboratory ID	NYSDEC	R1203991-016		R1206380-010		R1208755-003		R1301745-013		R1306560-019	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**30**		**30**		**27**		**32**		**32**	
Trichloroethene	5	1.6	J	1.6	J	1.5	J	1.6	J	1.5	J
Vinyl Chloride	2	0.23	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.2	J	1.1	J	1.2	J	1.6	J	1.2	J
trans-1,2-Dichloroethene	5	0.20	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MP-14									
Sampling Date		3/19/2014		9/18/2014		3/16/2015		9/21/2015		3/16/2016	
Laboratory ID	NYSDEC	R1402018-011		R1407413-018		R1501913-003		R1507987-010		R1602496-017	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**37**		**45**		**53**		**50**		**89**	
Trichloroethene	5	1.9	J	1.9	J	1.7	J	0.71	J	1.9	
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.9	J	1.2	J	1.2	J	0.66	J	1.3	
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MP-14					
Sampling Date		9/14/2016		3/21/2017*		9/13/2017	
Laboratory ID	NYSDEC	R1609765-007		R1702492		R1708648-009	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**10**		**15**		**26**	
Trichloroethene	5	0.22	U	0.22	U	0.38	J
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

* = Sample shown as "MW-14" in lab report

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-2, 3, 5, 6
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-2									
Sampling Date		3/17/2010		12/27/2012		3/16/2015		3/15/2016		3/20/2017	
Laboratory ID	NYSDEC	R1001332-034		R1208843-005		R1501913-005		R1602496-006		R1702492-005	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**17**		**39.0**		3.1	J	2.5		**4.0**	
Trichloroethene	5	2.0	J	**5.3**		1.8	J	4.1		**2.6**	
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.2	J	3.3	J	1.6	J	4.9		0.74	J
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-3							
Sampling Date		3/12/2010		9/20/2015		9/14/2016		9/12/2017	
Laboratory ID	NYSDEC	R1001332-002		R1507987-009		R1609765-011		R1708648-001	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	4.5	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	6.4	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	5.9	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	6.3	U	**100**		**75**		**130**	
Trichloroethene	5	6.3	U	1.4	J	1.3		0.6	J
Vinyl Chloride	2	5.2	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	**7.6**	DJ	2.8	J	1.1		2	
trans-1,2-Dichloroethene	5	**610**	D	0.33	U	0.33	U	0.33	U

Sample Location		MW-5					
Sampling Date		3/18/2010		11/18/2014		9/21/2015	
Laboratory ID	NYSDEC	R1001332-043		R1409379-002		R1507987-020	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U
Tetrachloroethene	5	**31**		**45**		**44**	
Trichloroethene	5	0.63	U	2.3	J	0.38	J
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U

Sample Location		MW-6									
Sampling Date		3/18/2010		3/14/2013		9/24/2013		9/18/2014		DUP-091814	
Laboratory ID	NYSDEC	R1001332-045		R1301745-005		R1307148-009		R1407413-021		R1407413-022	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.22	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.38	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-7A
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-7A									
Sampling Date		3/16/2010		12/19/2011		2/14/2012		4/18/2012		6/19/2012	
Laboratory ID	NYSDEC	R1001332-028		R1107129-006		R1201111-003		R1202511-011		R1203991-009	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	4.5	U	4.7	U	4.7	U	4.7	U	4.7	U
1,1-Dichloroethane	5	6.4	U	4.0	U	4.0	U	4.0	U	4.0	U
1,1-Dichloroethene	5	5.9	U	5.8	U	5.8	U	5.8	U	5.8	U
Tetrachloroethene	5	**1700**		**2300**	D	**2700**		**2500**		**2700**	
Trichloroethene	5	6.3	U	**5.2**	DJ	**5.8**	J	4.7	U	4.7	U
Vinyl Chloride	2	5.2	U	4.7	U	4.7	U	4.7	U	4.7	U
cis-1,2-Dichloroethene	5	4.8	U	4.0	U	4.0	U	4.0	U	4.0	U
trans-1,2-Dichloroethene	5	4.5	U	4.0	U	4.0	U	4.0	U	4.0	U

Sample Location		MW-7A									
Sampling Date		9/20/2012		12/20/2012		DUP-122012		3/15/2013		9/4/2013	
Laboratory ID	NYSDEC	R1206380-015		R1208755-019		R1208755-022		R1301745-017		R1306560-011	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	3.6	U	3.6	U	3.6	U	7.2	U	1.8	U
1,1-Dichloroethane	5	2.0	U	2.0	U	2.0	U	4.0	U	1.0	U
1,1-Dichloroethene	5	5.7	U	5.7	U	5.7	U	12	U	2.9	U
Tetrachloroethene	5	**1600**		**1100**		**1200**		**1900**	D	**550**	
Trichloroethene	5	2.2	U	2.2	U	2.2	U	4.4	U	1.1	U
Vinyl Chloride	2	3.2	U	3.2	U	3.2	U	6.4	U	1.6	U
cis-1,2-Dichloroethene	5	3.0	U	3.0	U	3.0	U	6.0	U	1.5	U
trans-1,2-Dichloroethene	5	3.4	U	3.4	U	3.4	U	6.7	U	1.7	U

Sample Location		MW-7A									
Sampling Date		DUP-090413		3/18/2014		9/17/2014		3/17/2015		DUP-031715	
Laboratory ID	NYSDEC	R1306560-017		R1402018-006		R1407413-008		R1501913-009		R1501913-017	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	1.8	U	0.72	U	1.8	U	0.36	U	0.36	U
1,1-Dichloroethane	5	1.0	U	0.40	U	1.0	U	0.20	U	0.20	U
1,1-Dichloroethene	5	2.9	U	1.2	U	2.9	U	0.57	U	0.57	U
Tetrachloroethene	5	**560**	D	240	U	**780**	D	**35**		**37**	
Trichloroethene	5	1.1	U	0.44	U	1.1	U	0.22	U	0.22	U
Vinyl Chloride	2	1.6	U	0.64	U	1.6	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.5	U	0.60	U	1.5	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	1.7	U	0.66	U	1.7	U	0.33	U	0.33	U

Sample Location		MW-7A									
Sampling Date		9/22/2015		3/15/2016		9/15/2016		DUP-091516		3/20/2017	
Laboratory ID	NYSDEC	R1507987-023		R1602496-010		R1609765-015		R1609765-015		R1702492-004	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	1.8	U	0.36	U	1.8	U	1.8	U	1.8	U
1,1-Dichloroethane	5	1.0	U	0.20	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	5	2.9	U	0.57	U	2.9	U	2.9	U	2.9	U
Tetrachloroethene	5	4.1	J	**780**	D	1.5	U	1.5	U	**44**	
Trichloroethene	5	1.1	U	0.22	J	1.1	U	1.1	U	1.1	U
Vinyl Chloride	2	1.6	U	0.32	U	1.6	U	1.6	U	1.6	U
cis-1,2-Dichloroethene	5	1.5	U	0.30	U	1.5	U	1.5	U	1.5	U
trans-1,2-Dichloroethene	5	1.7	U	0.33	U	1.7	U	1.7	U	1.7	U

Sample Location		MW-7A	
Sampling Date		9/13/2017	
Laboratory ID	NYSDEC	R1708648-013	
Units	GWQS	µg/L	
Volatile Organic Compounds			
1,1,1-Trichloroethane	5	1.8	U
1,1-Dichloroethane	5	1.0	U
1,1-Dichloroethene	5	2.9	U
Tetrachloroethene	5	6.2	
Trichloroethene	5	1.1	U
Vinyl Chloride	2	1.6	U
cis-1,2-Dichloroethene	5	1.5	U
trans-1,2-Dichloroethene	5	1.7	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-8, 9, 11, 12, 13, 14
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-8							
Sampling Date		3/18/2010		12/28/2012		9/24/2013		DUP-092413	
Laboratory ID	NYSDEC	R1001332-046		R1208843-008		R1307148-014		R1307148-015	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-9		MW-11			
Sampling Date		3/16/2010		3/18/2010		9/18/2014	
Laboratory ID	NYSDEC	R1001332-027		R1001332-050		R1407413-019	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.45	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.64	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.45	U	0.57	U
Tetrachloroethene	5	0.43	U	0.43	U	0.30	U
Trichloroethene	5	0.63	U	0.63	U	0.22	U
Vinyl Chloride	2	0.52	U	0.52	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.48	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.45	U	0.33	U

Sample Location		MW-12					
Sampling Date		3/19/2010		12/27/2012		9/18/2014	
Laboratory ID	NYSDEC	R1001332-054		R1208843-002		R1407413-013	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.22	U	0.22	U
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U

Sample Location		MW-13								MW-14	
Sampling Date		3/19/2010		9/22/2015		9/14/2016		9/11/2017		3/18/2010	
Laboratory ID	NYSDEC	R1001332-055		R1507987-031		R1609765-003		R1708647-004		R1001332-049	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U	0.45	
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.64	
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U	0.59	
Tetrachloroethene	5	**15**		**17**		**33**		19	J	0.43	U
Trichloroethene	5	0.63	U	0.59	J	1.4		0.60	J	0.63	
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U	0.52	
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U	0.30	U	0.48	
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U	0.45	

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-16
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-16									
Sampling Date		3/17/2010		12/21/2011		2/15/2012		4/19/2012		DUP-041912	
Laboratory ID	NYSDEC	R1001332-042		R1107129-021		R1201111-010		R1202511-013		R1202511-018	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.90	U	0.46	U	0.46	U	0.46	U	0.46	U
1,1-Dichloroethane	5	1.3	U	0.40	U	0.40	U	0.40	U	0.40	U
1,1-Dichloroethene	5	1.2	U	0.58	U	0.58	U	0.58	U	0.58	U
Tetrachloroethene	5	**260**		**280**		**250**		**200**		**190**	D
Trichloroethene	5	**5.8**	J	**6.5**	J	**5.3**	J	4.0	J	4.3	DJ
Vinyl Chloride	2	1.1	U	0.46	U	0.46	U	0.46	U	0.46	U
cis-1,2-Dichloroethene	5	4.0	J	4.5	J	4.7	J	3.4	J	3.8	DJ
trans-1,2-Dichloroethene	5	0.90	U	0.40	U	0.40	U	0.40	U	0.40	U

Sample Location		MW-16									
Sampling Date		6/21/2012		9/20/2012		12/18/2012		3/13/2013		9/4/2013	
Laboratory ID	NYSDEC	R1203991-024		R1206380-017		R1208755-006		R1301745-003		R1306560-010	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.46	U	0.36	U	0.36	U	0.90	U	0.36	U
1,1-Dichloroethane	5	0.40	U	0.20	U	0.20	U	0.50	U	0.20	U
1,1-Dichloroethene	5	0.58	U	0.57	U	0.57	U	1.5	U	0.57	U
Tetrachloroethene	5	**210**		**200**		**180**		**200**	D	**160**	
Trichloroethene	5	4.4	J	4.5	J	4.3	J	4.2	DJ	3.3	J
Vinyl Chloride	2	0.46	U	0.32	U	0.32	U	0.80	U	0.32	U
cis-1,2-Dichloroethene	5	2.8	J	2.7	J	2.9	J	2.9	DJ	2.0	J
trans-1,2-Dichloroethene	5	0.40	U	0.33	U	0.33	U	0.83	U	0.33	U

Sample Location		MW-16									
Sampling Date		3/18/2014		9/18/2014		3/16/2015		9/22/2015		3/15/2016	
Laboratory ID	NYSDEC	R1402018-003		R1407413-015		R1501913-002		R1507987-027		R1602496-009	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**150**		**140**		**100**		**43**		**46**	
Trichloroethene	5	3.6	J	2.4	J	2.1	J	0.39	J	0.69	J
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.9	J	1.3	J	1.1	J	0.30	U	0.34	J
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-16					
Sampling Date		9/14/2016		3/20/2017		9/13/2017	
Laboratory ID	NYSDEC	R1609765-006		R1702492-006		R1708648-011	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**6.5**		**32**		**60**	
Trichloroethene	5	0.22	U	0.22	U	0.28	J
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-17, 18, 19
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-17									
Sampling Date		3/18/2010		12/27/2012		9/24/2013		11/18/2014		9/15/2016	
Laboratory ID	NYSDEC	R1001332-044		R1208843-004		R1307148-013		R1409379-003		R1609765-016	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	1.90	J	1.5	J	1.8	J	1.8	J	3.7	
Trichloroethene	5	0.63	U	0.22	U	0.24	J	0.28	J	0.22	U
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-18							
Sampling Date		3/15/2010		12/29/2012		9/24/2013		9/19/2014	
Laboratory ID	NYSDEC	R1001332-019		R1208843-012		R1307148-012		R1407413-026	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-19							
Sampling Date		3/12/2010		9/20/2015		9/14/2016		9/12/2017	
Laboratory ID	NYSDEC	R1001332-012		R1507987-006		R1609765-004		R1708647-011	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**29**		**23**		**44**		**23**	
Trichloroethene	5	**8.7**		**7.1**		**9.3**		**5.9**	
Vinyl Chloride	2	0.52	U	0.58	J	0.32	U	0.6	J
cis-1,2-Dichloroethene	5	**15**		**15**		**14**		**11**	
trans-1,2-Dichloroethene	5	0.79	J	0.41	J	0.33	U	0.49	J

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-21, 22, 23, 24
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-21	MW-22		
Sampling Date		3/12/2010	3/12/2010	12/28/2012	9/24/2013
Laboratory ID	NYSDEC	R1001332-005	R1001332-001	R1208843-007	R1307148-008
Units	GWQS	µg/L	µg/L	µg/L	µg/L
Volatile Organic Compounds					
1,1,1-Trichloroethane	5	0.45 U	0.45 U	0.36 U	0.36 U
1,1-Dichloroethane	5	0.64 U	0.64 U	0.20 U	0.20 U
1,1-Dichloroethene	5	0.59 U	0.59 U	0.57 U	0.57 U
Tetrachloroethene	5	0.43 U	0.43 U	0.30 U	0.30 U
Trichloroethene	5	0.63 U	0.63 U	0.22 U	0.22 U
Vinyl Chloride	2	0.52 U	0.52 U	0.32 U	0.32 U
cis-1,2-Dichloroethene	5	0.48 U	0.48 U	0.30 U	0.38 U
trans-1,2-Dichloroethene	5	0.45 U	0.45 U	0.33 U	0.33 U

Sample Location		MW-23	MW-24				
Sampling Date		3/17/2010	3/19/2010	12/21/2012	9/22/2015	9/13/2016	9/13/2017
Laboratory ID	NYSDEC	R1001332-039	R1001332-056	R1208755-025	R1507987-030	R1609682-011	R1708648-006
Units	GWQS	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45 U	0.45 U	0.36 U	0.36 U	0.36 U	0.36 U
1,1-Dichloroethane	5	0.64 U	0.64 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	5	0.59 U	0.59 U	0.57 U	0.57 U	0.57 U	0.57 U
Tetrachloroethene	5	0.43 U	**150**	**22**	2.8 J	**9.8**	**0.30** J
Trichloroethene	5	0.63 U	5.0 J	0.22 U	0.22 U	0.22 U	0.22 U
Vinyl Chloride	2	0.52 U	0.52 U	0.32 U	0.32 U	0.32 U	0.32 U
cis-1,2-Dichloroethene	5	0.48 U	4.2 J	0.30 U	0.30 U	0.30 U	0.30 U
trans-1,2-Dichloroethene	5	0.45 U	0.45 U	0.33 U	0.33 U	0.33 U	0.33 U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-25
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-25									
Sampling Date		3/15/2010		12/20/2011		3/15/2012		6/20/2012		9/21/2012	
Laboratory ID	NYSDEC	R1001332-013		R1107129-014		R1201757-003		R1203991-011		R1206380-020	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	1.2	U	0.23	U	1.2	U	0.58	U	0.90	U
1,1-Dichloroethane	5	1.6	U	0.20	U	1.0	U	0.50	U	0.50	U
1,1-Dichloroethene	5	1.5	U	0.97	J	1.5	U	0.73	U	1.5	U
Tetrachloroethene	5	**450**		**43**		**360**	D	**350**		**400**	
Trichloroethene	5	**6.5**	J	**44**		**6.5**	DJ	**6.5**	J	**6.0**	J
Vinyl Chloride	2	1.3	U	0.82	J	1.2	U	0.58	U	0.80	U
cis-1,2-Dichloroethene	5	**8.2**	J	**60**		4.8	DJ	4.4	J	4.5	J
trans-1,2-Dichloroethene	5	1.2	U	3.9	J	1.0	U	0.50	U	0.83	U

Sample Location		MW-25									
Sampling Date		12/19/2012		3/15/2013		9/4/2013		3/20/2014		9/19/2014	
Laboratory ID	NYSDEC	R1208755-008		R1301745-018		R1306560-014		R1402018-017		R1407413-027	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.90	U	0.90	U	0.90	U	0.90	U	0.90	U
1,1-Dichloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	5	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Tetrachloroethene	5	**360**		**370**		**350**		**300**		**240**	
Trichloroethene	5	**6.3**	J	**5.9**	J	**5.4**	J	**5.3**	J	3.0	J
Vinyl Chloride	2	0.80	U	0.80	U	0.80	U	0.80	U	0.80	U
cis-1,2-Dichloroethene	5	**5.1**	J	4.6	J	3.3	J	2.5	J	1.4	J
trans-1,2-Dichloroethene	5	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U

Sample Location		MW-25									
Sampling Date		3/17/2015		9/21/2015		3/16/2016		9/14/2016		3/21/2017	
Laboratory ID	NYSDEC	R1501913-008		R1507987-016		R1602496-016		R1609765-009		R1702492	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.72	U	0.72	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.40	U	0.40	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	1.2	U	1.2	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**290**		**180**		**190**		**140**		**99**	
Trichloroethene	5	4.4	J	1.9	J	2.0		1.5		**2.2**	
Vinyl Chloride	2	0.64	U	0.64	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.8	J	0.90	J	1.3		0.83	J	**1.5**	
trans-1,2-Dichloroethene	5	0.66	U	0.66	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-25	
Sampling Date		9/13/2017	
Laboratory ID	NYSDEC	R1708648-010	
Units	GWQS	µg/L	
Volatile Organic Compounds			
1,1,1-Trichloroethane	5	1.80	U
1,1-Dichloroethane	5	1.00	U
1,1-Dichloroethene	5	2.9	U
Tetrachloroethene	5	1.5	U
Trichloroethene	5	1.1	U
Vinyl Chloride	2	1.60	U
cis-1,2-Dichloroethene	5	1.5	U
trans-1,2-Dichloroethene	5	1.7	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-26, 27
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-26					
Sampling Date		3/12/2010		12/29/2012		DUP-122912	
Laboratory ID	NYSDEC	R1001332-006		R1208843-013		R1208843-015	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U
Tetrachloroethene	5	**65**		**49**		**50**	
Trichloroethene	5	4.5	J	4.8	J	4.8	J
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	**5.3**		**5.9**		**6.1**	
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U

Sample Location		MW-26							
Sampling Date		9/19/2014		9/20/2015		9/14/2016		9/12/2017	
Laboratory ID	NYSDEC	R1407413-025		R1507987-007		R1609765-008		R1708647-010	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**38**		**50**		**34**		**29**	
Trichloroethene	5	3.5	J	4.3	J	3.3		3.4	
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	4.0	J	**6.7**		4.8		4.6	
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	J

Sample Location		MW-27							
Sampling Date		3/15/2010		9/20/2015		9/14/2016		9/12/2017	
Laboratory ID	NYSDEC	R1001332-015		R1507987-003		R1609765-005		R1708647-013	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**72**		**20**		**34**		**1.3**	
Trichloroethene	5	3.4	J	**7.7**		**5.7**		**0.51**	J
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.2	J	**15**		**14**		**11**	
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-28
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-28									
Sampling Date		3/15/2010		12/20/2011		3/15/2012		6/20/2012		9/21/2012	
Laboratory ID	NYSDEC	R1001332-021		R1107129-015		R1201757-004		R1203991-013		R1206380-023	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	1.2	U	0.58	U	0.23	U	0.23	U	0.36	U
1,1-Dichloroethane	5	1.6	U	0.50	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	1.5	U	0.73	U	0.82	J	1.1	J	0.69	J
Tetrachloroethene	5	**270**		**340**		**52**		**47**		**180**	
Trichloroethene	5	**110**		**5.5**	J	**49**		**48**		**77**	
Vinyl Chloride	2	1.3	U	0.58	U	0.55	J	0.58	J	0.32	J
cis-1,2-Dichloroethene	5	**66**		4.3	J	**53**		**54**		**52**	
trans-1,2-Dichloroethene	5	1.2	U	0.50	U	3.5	J	3.4	J	2.2	J

Sample Location		MW-28									
Sampling Date		12/19/2012		3/15/2013		9/4/2013		3/20/2014		9/19/2014	
Laboratory ID	NYSDEC	R1208755-009		R1301745-019		R1306560-015		R1402018-016		R1407413-029	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.50	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.60	J	0.69	J	0.76	J	0.93	J	0.57	U
Tetrachloroethene	5	**190**		**170**		**110**		**43**		**36**	
Trichloroethene	5	**64**		**60**		**53**		**50**		**27**	
Vinyl Chloride	2	0.32	U	0.41	J	0.42	J	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	**40**		**47**		**50**		**55**		**26**	
trans-1,2-Dichloroethene	5	1.8	J	2.4	J	3.3	J	2.4	J	0.65	J

Sample Location		MW-28									
Sampling Date		3/17/2015		9/21/2015		3/16/2016		9/13/2016		3/21/2017	
Laboratory ID	NYSDEC	R1501913-011		R1507987-014		R1602496-013		R1609682-016		R1702492-013	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**41**		3.8	J	**11**		**7.5**		**0.41**	J
Trichloroethene	5	**12**		3.1	J	2.1		0.31	J	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	**12**		2.2	J	2.4		0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.56	J	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-28	
Sampling Date		9/13/2017	
Laboratory ID	NYSDEC	R1708648-007	
Units	GWQS	µg/L	
Volatile Organic Compounds			
1,1,1-Trichloroethane	5	1.80	U
1,1-Dichloroethane	5	1.00	U
1,1-Dichloroethene	5	2.90	U
Tetrachloroethene	5	1.5	U
Trichloroethene	5	1.1	U
Vinyl Chloride	2	1.60	U
cis-1,2-Dichloroethene	5	1.5	U
trans-1,2-Dichloroethene	5	1.7	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-29, 30
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-29					
Sampling Date		3/19/2010		12/27/2012		9/25/2013	
Laboratory ID	NYSDEC	R1001332-057		R1208843-003		R1307148-019	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.22	U	0.22	U
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U

Sample Location		MW-30									
Sampling Date		3/15/2010		12/21/2011		3/15/2012		6/20/2012		9/20/2012	
Laboratory ID	NYSDEC	R1001332-018		R1107129-022		R1201757-001		R1203991-012		R1206380-013	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.23	U	0.23	U	0.23	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.29	U	0.29	U	0.29	U	0.57	U
Tetrachloroethene	5	**7.5**		0.20	U	0.20	U	0.20	U	0.30	U
Trichloroethene	5	0.63	U	0.37	J	0.23	U	0.35	J	0.28	J
Vinyl Chloride	2	0.52	U	0.23	U	0.23	U	0.23	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.32	J	0.20	U	0.30	J	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.20	U	0.20	U	0.20	U	0.33	U

Sample Location		MW-30									
Sampling Date		12/20/2012		9/24/2013		9/19/2014		9/20/2015		9/12/2016	9/12/2017
Laboratory ID	NYSDEC	R1208755-014		R1307148-006		R1407413-024		R1507987-002		R1609682-002	R1708647-008
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	µg/L
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36 U	0.36 U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20 U	0.20 U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57 U	0.57 U
Tetrachloroethene	5	0.30	U	0.30	U	0.30	U	0.30	U	0.30 U	0.30 U
Trichloroethene	5	0.28	J	0.22	U	0.22	U	0.59	J	0.57 J	0.51 J
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32 U	0.32 U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U	0.51	J	0.93 J	0.59 J
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33 U	0.33 U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-31, 32, 33
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-31							
Sampling Date		3/16/2010		12/28/2012		9/24/2013		11/18/2014	
Laboratory ID	NYSDEC	R1001332-026		R1208843-010		R1307148-011		R1409379-004	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.47	J	0.33	J	0.38	J
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.73	J	0.85	J	0.42	J	0.38	J
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-31							
Sampling Date		DUP-111814		12/18/2015		9/12/2016		9/11/2017	
Laboratory ID	NYSDEC	R1409379-006		R1511708-002		R1609682-004		R1708647-003	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.39	J	0.80	J	0.44	J	0.61	J
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.37	J	0.49	J	0.30	U	0.44	J
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-32									
Sampling Date		3/12/2010		12/28/2012		9/20/2015		9/12/2016		9/11/2017	
Laboratory ID	NYSDEC	R1001332-008		R1208843-009		R1507987-004		R1609682-003		R1708647-005	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.43	U	0.30	U	0.30	U	0.30	U	0.30	U
Trichloroethene	5	0.63	U	0.22	U	0.22	U	0.38	J	0.30	J
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.38	J	0.57	J	0.89	J	0.84	J
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-33					
Sampling Date		3/15/2010		9/24/2013		9/20/2014	
Laboratory ID	NYSDEC	R1001332-014		R1307148-010		R1407413-032	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U
Tetrachloroethene	5	0.91	J	1.8	J	2.3	J
Trichloroethene	5	0.63	U	0.82	J	0.56	J
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.48	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - MW-34, 35, 36, 37, 38
Former Dover Electronics Site, Kirkwood, New York

Sample Location		MW-34		MW-35				MW-36	
Sampling Date		3/26/2010		3/12/2010		9/12/2017		3/16/2010	
Laboratory ID	NYSDEC	R1001332-020		R1001332-007		R1708647-016		R1001332-025	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.45	U	0.47	J	1.2	U	1.2	U
1,1-Dichloroethane	5	0.64	U	0.64	U	1.6	U	1.6	U
1,1-Dichloroethene	5	0.59	U	0.59	U	1.5	U	1.5	U
Tetrachloroethene	5	0.43	U	0.43	U	1.1	U	1.1	U
Trichloroethene	5	0.63	U	0.63	U	1.6	U	1.6	U
Vinyl Chloride	2	0.52	U	0.52	U	1.3	U	1.3	U
cis-1,2-Dichloroethene	5	0.48	U	0.48	U	0.43	J	1.2	U
trans-1,2-Dichloroethene	5	0.45	U	0.45	U	1.2	U	1.2	U

Sample Location		MW-37									
Sampling Date		3/16/2010		9/24/2013		9/19/2014		9/20/2015		9/12/2016		9/12/2017	
Laboratory ID	NYSDEC	R1001332-029		R1307148-007		R1407413-023		R1507987-001		R1609682-001		R1708647-006	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds													
1,1,1-Trichloroethane	5	1.2	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	1.6	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	1.5	U	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	1.1	U	**18**		**8.0**		**17**		**27**		1.1	J
Trichloroethene	5	1.6	U	0.78	J	0.38	J	0.52	J	1.3		0.22	U
Vinyl Chloride	2	1.3	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	1.2	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	1.2	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		MW-38							
Sampling Date		3/17/2010		9/21/2015		9/14/2016		9/12/2017	
Laboratory ID	NYSDEC	R1001332-035		R1507987-011		R1609765-010		R1708647-015	
Units	GWQS	µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds									
1,1,1-Trichloroethane	5	0.45	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.64	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.59	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	**190**		**89**		**110**		**98**	
Trichloroethene	5	**13**		**5.2**		**7.0**		**6.4**	
Vinyl Chloride	2	0.52	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	4.4	J	1.3	J	1.2		1.3	
trans-1,2-Dichloroethene	5	0.45	U	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - IJ-1
Former Dover Electronics Site, Kirkwood, New York

Sample Location		IJ-1									
Sampling Date		12/20/2011		2/14/2012		4/18/2012		6/21/2012		9/20/2012	
Laboratory ID	NYSDEC	R1107129-018		R1201111-004		R1202511-004		R1203991-021		R1206380-014	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.46	U	0.46	U	0.23	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.40	U	0.40	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.58	U	0.58	U	0.29	U	0.57	U
Tetrachloroethene	5	**180**		**180**	D	0.40	U	0.20	U	0.30	U
Trichloroethene	5	1.6	J	2.0	DJ	0.46	U	0.23	U	0.22	U
Vinyl Chloride	2	0.23	U	0.46	U	0.46	U	0.23	U	0.32	U
cis-1,2-Dichloroethene	5	1.0	J	0.40	DJ	0.40	U	0.20	U	0.30	U
trans-1,2-Dichloroethene	5	0.20	U	0.40	U	0.40	U	0.20	U	0.33	U

Sample Location		IJ-1									
Sampling Date		12/20/2012		9/3/2013		9/17/2014		9/22/2015		9/13/2016	
Laboratory ID	NYSDEC	R1208755-015		R1306560-003		R1407413-004		R1507987-021		R1609682-012	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	3.6	U	3.6	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	2.0	U	2.0	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	5.7	U	5.7	U
Tetrachloroethene	5	0.30	U	0.30	U	0.30	U	3.0	U	3.0	U
Trichloroethene	5	0.22	U	0.22	U	0.22	U	2.2	U	2.2	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	3.2	U	3.2	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U	3.0	U	3.0	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	3.4	U	3.4	U

Sample Location		IJ-1	
Sampling Date		9/12/2017	
Laboratory ID	NYSDEC	R1708648-003	
Units	GWQS	µg/L	
Volatile Organic Compounds			
1,1,1-Trichloroethane	5	0.36	U
1,1-Dichloroethane	5	0.20	U
1,1-Dichloroethene	5	0.57	U
Tetrachloroethene	5	0.30	U
Trichloroethene	5	0.22	U
Vinyl Chloride	2	0.32	U
cis-1,2-Dichloroethene	5	0.30	U
trans-1,2-Dichloroethene	5	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - IJ-4
Former Dover Electronics Site, Kirkwood, New York

Sample Location		IJ-4									
Sampling Date		12/21/2011		2/15/2012		4/18/2012		6/21/2012		9/19/2012	
Laboratory ID	NYSDEC	R1107129-023		R1201111-006		R1202511-008		R1203991-022		R1206380-007	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	12	U	12	U	0.46	U	0.64	J	0.39	J
1,1-Dichloroethane	5	10	U	10	U	0.40	U	4.0	U	0.20	U
1,1-Dichloroethene	5	15	U	15	U	0.58	U	5.8	U	0.57	U
Tetrachloroethene	5	**7300**		**7200**		0.40	U	**1200**	D	0.30	U
Trichloroethene	5	**100**	J	**120**	J	0.46	U	4.0	J	0.22	U
Vinyl Chloride	2	12	U	12	U	0.46	U	4.7	U	0.32	U
cis-1,2-Dichloroethene	5	**200**	J	**240**	J	0.40	U	2.8	J	0.30	U
trans-1,2-Dichloroethene	5	10	U	10	U	0.40	U	4.0	U	0.33	U

Sample Location		IJ-4									
Sampling Date		12/20/2012		3/14/2013		9/4/2013		3/18/2014		9/17/2014	
Laboratory ID	NYSDEC	R1208755-017		R1301745-009		R1306560-007		R1402018-004		R1407413-007	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.72	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.40	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	1.2	U	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U	0.60	U	**190**		0.32	U
Trichloroethene	5	0.22	U	0.22	U	0.44	U	0.39	J	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.64	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.60	U	0.34	J	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.66	U	0.33	U	0.33	U

Sample Location		IJ-4									
Sampling Date		3/17/2015		9/22/2015		3/15/2016		9/13/2016		3/20/2017	
Laboratory ID	NYSDEC	R1501913-015		R1507987-026		R1602496-002		R1609682-014		R-1702492-003	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.43	J	1.8	U	1.8	U	0.90	U	3.6	U
1,1-Dichloroethane	5	0.20	U	1.0	U	1.0	U	0.50	U	2.0	U
1,1-Dichloroethene	5	0.57	U	2.9	U	2.9	U	1.5	U	5.7	U
Tetrachloroethene	5	0.30	U	1.5	U	1.5	U	0.75	U	3.0	U
Trichloroethene	5	0.22	U	1.1	U	1.1	U	0.55	U	2.2	U
Vinyl Chloride	2	0.32	U	1.6	U	1.6	U	0.80	U	3.2	U
cis-1,2-Dichloroethene	5	0.30	U	1.5	U	1.5	U	0.75	U	3.0	U
trans-1,2-Dichloroethene	5	0.33	U	1.7	U	1.7	U	0.83	U	3.3	U

Sample Location		IJ-4	
Sampling Date		9/13/2017	
Laboratory ID	NYSDEC	R1708648-005	
Units	GWQS	µg/L	
Volatile Organic Compounds			
1,1,1-Trichloroethane	5	1.8	U
1,1-Dichloroethane	5	1.0	U
1,1-Dichloroethene	5	2.9	U
Tetrachloroethene	5	1.5	U
Trichloroethene	5	1.1	U
Vinyl Chloride	2	1.6	U
cis-1,2-Dichloroethene	5	1.5	U
trans-1,2-Dichloroethene	5	1.7	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - IJ-5
Former Dover Electronics Site, Kirkwood, New York

Sample Location		IJ-5									
Sampling Date		12/21/2011		2/15/2012		4/19/2012		6/20/2012		9/20/2012	
Laboratory ID	NYSDEC	R1107129-024		R1201111-012		R1202511-017		R1203991-015		R1206380-012	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.23	U	0.23	U	0.23	U	0.23	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.29	U	0.29	U	0.29	U	0.29	U	0.57	U
Tetrachloroethene	5	0.90	J	0.44	J	0.20	U	0.22	J	0.30	U
Trichloroethene	5	0.23	U	0.23	U	0.23	U	0.23	U	0.22	U
Vinyl Chloride	2	0.23	U	0.23	U	0.23	U	0.23	U	0.32	U
cis-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.30	U
trans-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.33	U

Sample Location		IJ-5									
Sampling Date		12/18/2012		3/15/2013		9/5/2013		3/19/2014		9/18/2014	
Laboratory ID	NYSDEC	R1208755-005		R1301745-016		R1306560-020		R1402018-013		R1407413-017	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U	0.30	U	0.32	J	0.30	U
Trichloroethene	5	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 7 (Continued) Summary of SSPL VOC Groundwater Analytical Results - IJ-10
Former Dover Electronics Site, Kirkwood, New York

Sample Location		IJ-10									
Sampling Date		10/28/2011		12/20/2011		2/14/2012		4/18/2012		6/21/2012	
Laboratory ID	NYSDEC	R1106103-003		R1107129-017		R1201111-001		R1202511-006		R1203991-020	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.58	U	0.58	U	0.58	U	0.58	U	0.23	U
1,1-Dichloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.20	U
1,1-Dichloroethene	5	2.1	J	1.7	J	1.6	J	0.73	U	0.29	U
Tetrachloroethene	5	**200**		**310**		**230**		0.50	U	0.20	U
Trichloroethene	5	**150**		**110**		**88**		0.58	U	0.23	U
Vinyl Chloride	2	1.1	J	2.0	J	**3.0**	J	0.58	U	0.23	U
cis-1,2-Dichloroethene	5	**380**		**300**		**260**		0.50	U	0.20	U
trans-1,2-Dichloroethene	5	0.70	J	2.5	J	4.1	J	0.50	U	0.20	U

Sample Location		IJ-10									
Sampling Date		9/20/2012		12/20/2012		3/14/2013		9/3/2013		3/19/2014	
Laboratory ID	NYSDEC	R1206380-016		R1208755-013		R1301745-007		R1306560-004		R1402018-008	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
Tetrachloroethene	5	0.30	U	0.30	U	0.30	U	2.0	J	0.92	J
Trichloroethene	5	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U

Sample Location		IJ-10									
Sampling Date		9/17/2014		3/17/2015		9/22/2015		3/15/2016		DUP-031516	
Laboratory ID	NYSDEC	R1407413-002		R1501913-012		R1507987-024		R1602496-005		R1602496-011	
Units	GWQS	µg/L		µg/L		µg/L		µg/L		µg/L	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	0.36	U	0.36	U	3.6	U	0.36	U	0.36	U
1,1-Dichloroethane	5	0.20	U	0.20	U	2.0	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.57	U	0.57	U	5.7	U	0.57	U	0.57	U
Tetrachloroethene	5	1.50	J	0.30	U	3.0	U	0.30	U	0.30	U
Trichloroethene	5	0.22	U	0.22	U	2.2	U	0.22	U	0.22	U
Vinyl Chloride	2	0.32	U	0.32	U	3.2	U	0.32	U	0.32	U
cis-1,2-Dichloroethene	5	0.30	U	0.30	U	3.0	U	0.30	U	0.30	U
trans-1,2-Dichloroethene	5	0.33	U	0.33	U	3.4	U	0.33	U	0.33	U

Sample Location		IJ-10					
Sampling Date		9/13/2016		3/21/2017		9/12/2017	
Laboratory ID	NYSDEC	R1609686-009		R1702492-010		R1708648-004	
Units	GWQS	µg/L		µg/L		µg/L	
Volatile Organic Compounds							
1,1,1-Trichloroethane	5	3.6	U	3.6	U	3.6	U
1,1-Dichloroethane	5	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	5	5.7	U	5.7	U	5.7	U
Tetrachloroethene	5	3.0	U	**7.6**	**J**	3.0	U
Trichloroethene	5	2.2	U	2.2	U	2.2	U
Vinyl Chloride	2	3.2	U	3.2	U	3.2	U
cis-1,2-Dichloroethene	5	3.0	U	3.0	U	3.0	U
trans-1,2-Dichloroethene	5	3.3	U	3.3	U	3.3	U

Notes:

All results presented in micrograms per liter (µg/l).

D = Compound identified in an analysis at a secondary dilution factor

J = Estimated value, reported concentration is less than sample quantitation limit but greater than the method detection limit

U = Constituent analyzed for but not detected above the method detection limit presented

NS = Not sampled

Table 8 Indoor Air Sampling Analytical Results, March 2017 - Former Dover Electronics Site, Kirkwood, New York

Sample Location	Background				AC Area				Cafeteria			
Sampling Date	3/22/2017				3/22/2017				3/22/2017			
Laboratory Sample ID	8906229				8906230				8906225			
Units	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
1,1,1-Trichloroethane	0.20	U	1.1	U	0.20	U	1.1	U	0.20	U	1.1	U
1,1,2,2-Tetrachloroethane	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
1,1,2-Trichloroethane	0.20	U	1.1	U	0.20	U	1.1	U	0.20	U	1.1	U
1,1-Dichloroethane	0.20	U	0.81	U	0.20	U	0.81	U	0.20	U	0.81	U
1,1-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U	0.20	U	0.79	U
1,2,3-Trichloropropane	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
1,2,4-Trimethylbenzene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
1,2-Dibromoethane	0.20	U	1.5	U	0.20	U	1.5	U	0.20	U	1.5	U
1,2-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
1,2-Dichloroethane	0.20	U	0.81	U	0.20	U	0.81	U	0.20	U	0.81	U
1,2-Dichloropropane	0.20	U	0.92	U	0.20	U	0.92	U	0.20	U	0.92	U
1,3,5-Trimethylbenzene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
1,3-Butadiene	0.40	U	0.88	U	0.40	U	0.88	U	0.40	U	0.88	U
1,3-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
1,4-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
2-Butanone	**2.5**		**7.2**		**2.3**		**6.7**		**9.8**		**29**	
2-Hexanone	0.50	U	2	U	0.50	U	2	U	**1.3**	**J**	**5.3**	**J**
3-Chloropropene	0.2	U	0.63	U	0.2	U	0.63	U	0.2	U	0.63	U
4-Ethyltoluene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
4-Methyl-2-Pentanone	0.50	U	2	U	0.50	U	2	U	0.50	U	2	U
Acetone	**10**		**24**		**14**		**34**		**14**		**34**	
Benzene	0.2	U	0.64	U	0.2	U	0.64	U	0.2	U	0.64	U
Bromobenzene	0.2	U	1.3	U	0.2	U	1.3	U	0.2	U	1.3	U
Bromodichloromethane	0.20	U	1.3	U	0.20	U	1.3	U	0.20	U	1.3	U
Bromoform	0.20	U	2.1	U	0.20	U	2.1	U	0.20	U	2.1	U
Bromomethane	0.20	U	0.78	U	0.20	U	0.78	U	0.20	U	0.78	U
Carbon Disulfide	0.50	U	1.6	U	0.50	U	1.6	U	0.50	U	1.6	U
Carbon Tetrachloride	0.20	U	1.3	U	0.20	U	1.3	U	0.20	U	1.3	U
Chlorobenzene	0.20	U	0.92	U	0.20	U	0.92	U	0.20	U	0.92	U
Chlorodifluoromethane	0.20	U	0.71	U	0.20	U	0.71	U	0.20	U	0.71	U
Chloroethane	0.20	U	0.53	U	0.20	U	0.53	U	0.20	U	0.53	U
Chloroform	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
Chloromethane	0.20	U	0.41	U	0.20	U	0.41	U	0.20	U	0.41	U
cis-1,2-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U	0.20	U	0.79	U
cis-1,3-Dichloropropene	0.20	U	0.91	U	0.20	U	0.91	U	0.20	U	0.91	U
Cumene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
Dibromochloromethane	0.20	U	1.7	U	0.20	U	1.7	U	0.20	U	1.7	U
Dibromomethane	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
Dichlorodifluoromethane	**0.62**	**J**	**3.1**	**J**	**0.76**	**J**	**3.7**	**J**	**0.64**	**J**	**3.2**	**J**
Dichlorofluoromethane	0.20	U	0.84	U	0.20	U	0.84	U	0.20	U	0.84	U
Ethylbenzene	0.20	U	0.87	U	0.20	U	0.87	U	0.20	U	0.87	U
Freon 113	0.50	U	3.8	U	0.50	U	3.8	U	0.50	U	3.8	U
Freon 114	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
Heptane	0.20	U	0.82	U	0.20	U	0.82	U	0.20	U	0.82	U
Hexachloroethane	0.20	U	1.9	U	0.20	U	1.9	U	0.20	U	1.9	U
Hexane	0.20	U	0.7	U	0.20	U	0.7	U	0.20	U	0.7	U
Isooctane	0.20	U	0.93	U	0.20	U	0.93	U	0.20	U	0.93	U
m/p-Xylene	0.20	U	0.87	U	0.20	U	0.87	U	**0.20**	**J**	**0.88**	**J**
Methyl t-Butyl Ether	0.20	U	0.72	U	0.20	U	0.72	U	0.20	U	0.72	U
Methylene Chloride	0.20	U	0.69	U	0.20	U	0.69	U	0.20	U	0.69	U
Octane	0.20	U	0.93	U	**0.29**	**J**	**1.4**	**J**	**0.57**	**J**	**2.7**	**J**
o-Xylene	0.20	U	0.87	U	0.20	U	0.87	U	0.20	U	0.87	U
Pentane	**0.29**	**J**	**0.86**	**J**	**0.25**	J	**0.72**	J	**0.28**	**J**	**0.84**	**J**
Styrene	0.20	U	0.85	U	0.20	U	0.85	U	0.20	U	0.85	U
Tetrachloroethene	0.20	U	1.4	U	**1.6**		**11**		**0.23**	**J**	**1.6**	**J**
Toluene	0.20	U	0.75	U	**0.34**	**J**	**1.3**	**J**	**0.27**	**J**	**1**	**J**
trans-1,2-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U	0.20	U	0.79	U
trans-1,3-Dichloropropene	0.20	U	0.91	U	0.20	U	0.91	U	0.20	U	0.91	U
Trichloroethene	0.20	U	1.1	U	0.20	U	1.1	U	0.20	U	1.1	U
Trichlorofluoromethane	**0.27**	**J**	**1.5**	**J**	**0.44**	**J**	**2.5**	**J**	**0.51**	**J**	**2.9**	**J**
Vinyl Chloride	0.20	U	0.51	U	0.20	U	0.51	U	0.20	U	0.51	U

Notes:

Bold = compound detected in sample

Red = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

All samples analyzed by Eurofins Laboratory of Lancaster, PA

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 60

PCE - 100

TCE - 5

Table 8 (Continued) Indoor Air Sampling Analytical Results, March 2017 - Former Dover Electronics Site, Kirkwood, New York

Sample Location	Electrical Area				Office Area 1				Office Area 2			
Sampling Date	3/22/2017				3/22/2017				3/22/2017			
Laboratory Sample ID	8906232				8906226				8906227			
Units	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
1,1,1-Trichloroethane	0.20	U	1.1	U	0.20	U	1.1	U	0.20	U	1.1	U
1,1,2,2-Tetrachloroethane	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
1,1,2-Trichloroethane	0.20	U	1.1	U	0.20	U	1.1	U	0.20	U	1.1	U
1,1-Dichloroethane	0.20	U	0.81	U	0.20	U	0.81	U	0.20	U	0.81	U
1,1-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U	0.20	U	0.79	U
1,2,3-Trichloropropane	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
1,2,4-Trimethylbenzene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
1,2-Dibromoethane	0.20	U	1.5	U	0.20	U	1.5	U	0.20	U	1.5	U
1,2-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
1,2-Dichloroethane	0.20	U	0.81	U	0.20	U	0.81	U	0.20	U	0.81	U
1,2-Dichloropropane	0.20	U	0.92	U	0.20	U	0.92	U	0.20	U	0.92	U
1,3,5-Trimethylbenzene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
1,3-Butadiene	0.40	U	0.88	U	0.40	U	0.88	U	0.40	U	0.88	U
1,3-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
1,4-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U	0.20	U	1.2	U
2-Butanone	**3.6**		**11**		**1.7**	**J**	**5**	**J**	**2**	**J**	**5.8**	**J**
2-Hexanone	**0.55**	**J**	**2.3**	**J**	0.50	U	2	U	0.50	U	2	U
3-Chloropropene	0.2	U	0.63	U	0.2	U	0.63	U	0.2	U	0.63	U
4-Ethyltoluene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
4-Methyl-2-Pentanone	0.50	U	2	U	0.50	U	2	U	0.50	U	2	U
Acetone	**20**		**47**		**14.00**		**33**		**17**		**40**	
Benzene	0.2	U	0.64	U	0.2	U	0.64	U	**0.21**	**J**	**0.66**	**J**
Bromobenzene	0.2	U	1.3	U	0.2	U	1.3	U	0.2	U	1.3	U
Bromodichloromethane	0.20	U	1.3	U	0.20	U	1.3	U	0.20	U	1.3	U
Bromoform	0.20	U	2.1	U	0.20	U	2.1	U	0.20	U	2.1	U
Bromomethane	0.20	U	0.78	U	0.20	U	0.78	U	0.20	U	0.78	U
Carbon Disulfide	0.50	U	1.6	U	0.50	U	1.6	U	0.50	U	1.6	U
Carbon Tetrachloride	0.20	U	1.3	U	0.20	U	1.3	U	0.20	U	1.3	U
Chlorobenzene	0.20	U	0.92	U	0.20	U	0.92	U	0.20	U	0.92	U
Chlorodifluoromethane	0.20	U	0.71	U	0.20	U	0.71	U	0.20	U	0.71	U
Chloroethane	0.20	U	0.53	U	0.20	U	0.53	U	0.20	U	0.53	U
Chloroform	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
Chloromethane	0.20	U	0.41	U	0.20	U	0.41	U	0.20	U	0.41	U
cis-1,2-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U	0.20	U	0.79	U
cis-1,3-Dichloropropene	0.20	U	0.91	U	0.20	U	0.91	U	0.20	U	0.91	U
Cumene	0.20	U	0.98	U	0.20	U	0.98	U	0.20	U	0.98	U
Dibromochloromethane	0.20	U	1.7	U	0.20	U	1.7	U	0.20	U	1.7	U
Dibromomethane	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
Dichlorodifluoromethane	**0.83**	**J**	**4.1**	**J**	**0.72**	**J**	**3.6**	**J**	**0.68**	**J**	**3.4**	**J**
Dichlorofluoromethane	0.20	U	0.84	U	0.20	U	0.84	U	0.20	U	0.84	U
Ethylbenzene	0.20	U	0.87	U	0.20	U	0.87	U	0.20	U	0.87	U
Freon 113	0.50	U	3.8	U	0.50	U	3.8	U	0.50	U	3.8	U
Freon 114	0.20	U	1.4	U	0.20	U	1.4	U	0.20	U	1.4	U
Heptane	0.20	U	0.82	U	0.20	U	0.82	U	0.20	U	0.82	U
Hexachloroethane	0.20	U	1.9	U	0.20	U	1.9	U	0.20	U	1.9	U
Hexane	0.20	U	0.7	U	0.20	U	0.7	U	0.20	U	0.7	U
Isooctane	0.20	U	0.93	U	0.20	U	0.93	U	0.20	U	0.93	U
m/p-Xylene	0.20	U	0.87	U	0.20	U	0.87	U	0.20	U	0.87	U
Methyl t-Butyl Ether	0.20	U	0.72	U	0.20	U	0.72	U	0.20	U	0.72	U
Methylene Chloride	0.20	U	0.69	U	0.20	U	0.69	U	0.20	U	0.69	U
Octane	0.20	U	0.93	U	0.20	U	0.93	U	0.20	U	0.93	U
o-Xylene	0.20	U	0.87	U	0.20	U	0.87	U	0.20	U	0.87	U
Pentane	0.20	U	0.59	U	**0.23**	**J**	**0.68**	**J**	**0.26**	**J**	**0.77**	**J**
Styrene	0.20	U	0.85	U	0.20	U	0.85	U	0.20	U	0.85	U
Tetrachloroethene	**1.8**		**12**		**0.25**	**J**	**1.7**	**J**	0.20	U	1.4	U
Toluene	**0.37**	**J**	**1.4**	**J**	0.20	U	0.75	U	**0.24**	**J**	**0.89**	**J**
trans-1,2-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U	0.20	U	0.79	U
trans-1,3-Dichloropropene	0.20	U	0.91	U	0.20	U	0.91	U	0.20	U	0.91	U
Trichloroethene	0.20	U	1.1	U	0.20	U	1.1	U	0.20	U	1.1	U
Trichlorofluoromethane	**0.49**	**J**	**2.8**	**J**	**0.53**	**J**	**3**	**J**	**0.54**	**J**	**3**	**J**
Vinyl Chloride	0.20	U	0.51	U	0.20	U	0.51	U	0.20	U	0.51	U

Notes:

Bold = compound detected in sample

Red = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

All samples analyzed by Eurofins Laboratory of Lancaster, PA

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 60

PCE - 100

TCE - 5

Table 8 (Continued) Indoor Air Sampling Analytical Results, March 2017 - Former Dover Electronics Site, Kirkwood, New York

Sample Location	Hallway				Computer Servers			
Sampling Date	3/22/2017				3/22/2017			
Laboratory Sample ID	8906228				8906231			
Units	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.20	U	1.4	U	0.20	U	1.4	U
1,1,1-Trichloroethane	0.20	U	1.1	U	0.20	U	1.1	U
1,1,2,2-Tetrachloroethane	0.20	U	1.4	U	0.20	U	1.4	U
1,1,2-Trichloroethane	0.20	U	1.1	U	0.20	U	1.1	U
1,1-Dichloroethane	0.20	U	0.81	U	0.20	U	0.81	U
1,1-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U
1,2,3-Trichloropropane	0.20	U	1.2	U	0.20	U	1.2	U
1,2,4-Trimethylbenzene	0.20	U	0.98	U	0.20	U	0.98	U
1,2-Dibromoethane	0.20	U	1.5	U	0.20	U	1.5	U
1,2-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U
1,2-Dichloroethane	0.20	U	0.81	U	0.20	U	0.81	U
1,2-Dichloropropane	0.20	U	0.92	U	0.20	U	0.92	U
1,3,5-Trimethylbenzene	0.20	U	0.98	U	0.20	U	0.98	U
1,3-Butadiene	0.40	U	0.88	U	0.40	U	0.88	U
1,3-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U
1,4-Dichlorobenzene	0.20	U	1.2	U	0.20	U	1.2	U
2-Butanone	**4.8**		**14**		**2.1**		**6.2**	
2-Hexanone	**0.89**	**J**	**3.6**	**J**	0.50	U	2	U
3-Chloropropene	0.2	U	0.63	U	0.2	U	0.63	U
4-Ethyltoluene	0.20	U	0.98	U	0.20	U	0.98	U
4-Methyl-2-Pentanone	0.50	U	2	U	0.50	U	2	U
Acetone	**21**		**49**		**13**		**31**	
Benzene	0.2	U	0.64	U	0.2	U	0.64	U
Bromobenzene	0.2	U	1.3	U	0.2	U	1.3	U
Bromodichloromethane	0.20	U	1.3	U	0.20	U	1.3	U
Bromoform	0.20	U	2.1	U	0.20	U	2.1	U
Bromomethane	0.20	U	0.78	U	0.20	U	0.78	U
Carbon Disulfide	0.50	U	1.6	U	0.50	U	1.6	U
Carbon Tetrachloride	0.20	U	1.3	U	0.20	U	1.3	U
Chlorobenzene	0.20	U	0.92	U	0.20	U	0.92	U
Chlorodifluoromethane	0.20	U	0.71	U	0.20	U	0.71	U
Chloroethane	0.20	U	0.53	U	0.20	U	0.53	U
Chloroform	0.20	U	0.98	U	0.20	U	0.98	U
Chloromethane	0.20	U	0.41	U	0.20	U	0.41	U
cis-1,2-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U
cis-1,3-Dichloropropene	0.20	U	0.91	U	0.20	U	0.91	U
Cumene	0.20	U	0.98	U	0.20	U	0.98	U
Dibromochloromethane	0.20	U	1.7	U	0.20	U	1.7	U
Dibromomethane	0.20	U	1.4	U	0.20	U	1.4	U
Dichlorodifluoromethane	**0.84**	**J**	**4.2**	**J**	**0.77**	**J**	**3.8**	**J**
Dichlorofluoromethane	0.20	U	0.84	U	0.20	U	0.84	U
Ethylbenzene	0.20	U	0.87	U	0.20	U	0.87	U
Freon 113	0.50	U	3.8	U	0.50	U	3.8	U
Freon 114	0.20	U	1.4	U	0.20	U	1.4	U
Heptane	0.20	U	0.82	U	0.20	U	0.82	U
Hexachloroethane	0.20	U	1.9	U	0.20	U	1.9	U
Hexane	0.20	U	0.7	U	0.20	U	0.7	U
Isooctane	0.20	U	0.93	U	0.20	U	0.93	U
m/p-Xylene	0.20	U	0.87	U	0.20	U	0.87	U
Methyl t-Butyl Ether	0.20	U	0.72	U	0.20	U	0.72	U
Methylene Chloride	0.20	U	0.69	U	0.20	U	0.69	U
Octane	**0.43**	**J**	**2**	**J**	**0.24**	**J**	**1.1**	**J**
o-Xylene	0.20	U	0.87	U	0.20	U	0.87	U
Pentane	0.20	U	0.59	U	**0.25**	**J**	**0.73**	**J**
Styrene	0.20	U	0.85	U	0.20	U	0.85	U
Tetrachloroethene	0.20	U	1.4	U	**1.8**		**12**	
Toluene	**0.26**	**J**	**0.99**	**J**	**0.36**	**J**	**1.4**	**J**
trans-1,2-Dichloroethene	0.20	U	0.79	U	0.20	U	0.79	U
trans-1,3-Dichloropropene	0.20	U	0.91	U	0.20	U	0.91	U
Trichloroethene	0.20	U	1.1	U	0.20	U	1.1	U
Trichlorofluoromethane	**0.57**	**J**	**3.2**	**J**	**0.43**	**J**	**2.4**	**J**
Vinyl Chloride	0.20	U	0.51	U	0.20	U	0.51	U

Notes:

Bold = compound detected in sample

Red = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

All samples analyzed by Eurofins Laboratory of Lancaster, PA

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 60

PCE - 100

TCE - 5

Table 9 Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York

Sample Location	PCE µg/m^3	TCE µg/m^3	Cis-1,2-DCE µg/m^3	Vinyl Chloride µg/m^3
OFFICE AREA #1				
Nov-98	61	-	-	-
Dec-98	35	-	-	-
Mar-99	58	-	-	-
Feb-02	36	-	-	-
Apr-02	68	-	-	-
May-02	27	-	-	-
Sep-02	60	1.3	-	-
Aug-03	20	-	-	-
Sep-03	52	-	-	-
Jan-04	110	1.3	-	-
Apr-04	79	-	-	-
Sep-04	66	-	-	-
Mar-05	51	-	-	-
Sep-05	120	-	-	-
Apr-06	47	0.2	-	-
Sep-06	31	0.9	16	0.8
Mar-07	8.3	-	-	-
Aug-07	11	-	-	-
Mar-08	4.1	-	-	-
Dec-08	6.0	-	-	-
Mar-09	3.9	0.24	-	-
Oct-09	1.7	-	-	-
Mar-10	2.6	-	-	-
Mar-11	4.0	-	-	-
Mar-12	2.8	-	-	-
Mar-13	3.5	-	-	-
Mar-14	1.6	-	-	-
Mar-15	1.1	-	-	-
Mar-16	0.93	-	-	-
OFFICE AREA #2				
Aug-03	28	-	-	-
Sep-03	24	-	-	-
Jan-04	87	-	-	-
Apr-04	44	-	-	-
Sep-04	41	-	-	-
Mar-05	39	-	-	-
Sep-05	120	-	-	-
Apr-06	40	0.3	-	-
Sep-06	24	0.2	-	-
Mar-07	5.3	-	-	-
Aug-07	2.9	0.1	-	-
Mar-08	2.6	-	-	-
Dec-08	4.9	0.3	-	-
Mar-09	3.0	0.19	-	-
Oct-09	1.2	-	-	-
Mar-10	2.2	-	-	-
Mar-11	3.0	-	-	-
Mar-12	2.4	-	-	-
Mar-13	1.6	-	-	-
Mar-14	1.3	0.14	-	-
Mar-15	1.1	-	-	-
Mar-16	-	-	-	-

See Notes on last page

Table 9 (Continued) Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York

Sample Location	PCE µg/m^3	TCE µg/m^3	Cis-1,2-DCE µg/m^3	Vinyl Chloride µg/m^3
CAFETERIA				
Aug-03	17	-	-	-
Sep-03	23	-	-	-
Jan-04	110	1.7	3.5	-
Apr-04	43	-	1.5	-
Sep-04	27	-	-	-
Mar-05	40	-	-	-
Sep-05	120	-	-	-
Apr-06	43	0.2	-	-
Sep-06	27	0.7	3.3	-
Mar-07	5.2	-	-	-
Aug-07	8.6	-	-	-
Mar-08	3.0	-	-	-
Dec-08	5.1	-	-	-
Mar-09	3.3	-	-	-
Oct-09	1.9	-	-	-
Mar-10	2.3	-	-	-
Mar-11	3.7	-	-	-
Mar-12	2.9	-	-	-
Mar-13	1.8	0.33	-	-
Mar-14	2.8	0.24	-	-
Mar-15	1.5	-	-	-
Mar-16	1.5	-	-	-
ELECTRICAL ROOM/AREA				
Nov-98	1,017	-	17.8	-
Dec-98	678	-	9.5	-
Mar-99	387	-	6.3	-
Feb-02	186	4.4	6.1	-
Apr-02	406	8.2	14.1	1.6
May-02	165	1.9	4.8	-
Sep-02	124	2.6	3.7	-
Aug-03	64	-	-	-
Sep-03	62	-	-	-
Jan-04	75	-	-	-
Apr-04	88	2.7	2.1	-
Sep-04	70	-	-	-
Mar-05	60	-	-	-
Sep-05	110	-	1.5	-
Apr-06	61	0.5	0.9	-
Sep-06	84	0.6	1.2	-
Mar-07	9.8	-	-	-
Aug-07	14	0.2	-	-
Mar-08	5.8	-	-	-
Dec-08	6.7	-	-	-
Mar-09	5.3	0.17	-	-
Oct-09	5.0	-	-	-
Mar-10	4.1	-	-	-
Mar-11	6.0	-	-	-
Mar-12	4.1	-	-	-
Mar-13	3.8	-	-	-
Mar-14	2.7	-	-	-
Mar-15	12	-	-	-
Mar-16	4.9	-	-	-

See Notes on last page

Table 9 (Continued) Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York

Sample Location	PCE µg/m3	TCE µg/m3	Cis-1,2-DCE µg/m3	Vinyl Chloride µg/m3
A/C AREA				
Nov-98	482	6.5	15.9	-
Dec-98	244	3.6	7.5	-
Mar-99	183	-	5.6	-
Feb-02	165	4.9	8.1	-
Apr-02	248	4.9	10.5	-
May-02	138	2.1	5.2	-
Sep-02	110	2.6	3.6	-
Aug-03	94	-	1.4	-
Sep-03	88	-	-	-
Jan-04	85	1.7	3.6	-
Apr-04	100	1.4	2.1	-
Sep-04	62	-	-	-
Mar-05	85	-	1.4	-
Sep-05	11	-	-	-
Apr-06	74	0.8	1.5	-
Sep-06	76	0.6	2.1	-
Mar-07	9.7	-	-	-
Aug-07	14	0.3	-	-
Mar-08	4.4	-	-	-
Dec-08	5.3	-	-	-
Mar-09	5.9	0.25	-	-
Oct-09	4.1	-	-	-
Mar-10	3.9	-	-	-
Mar-11	5.9	-	-	-
Mar-12	3.1	-	-	-
Mar-13	2.9	-	-	-
Mar-14	2.8	-	-	-
Mar-15	9.9	0.71	-	-
Mar-16	5.8	-	-	-
HALLWAY				
Aug-07	3.9	-	-	-
Mar-08	-	-	-	-
Dec-08	-	-	-	-
Mar-09	1.7	-	-	-
Oct-09	-	-	-	-
Mar-10	1.2	-	-	-
Mar-11	-	-	-	-
Mar-12	1.0	-	-	-
Mar-13	-	-	-	-
Mar-14	-	-	-	-
Mar-15	-	2.2	1.6	-
Mar-16	-	-	-	-

See Notes on last page

Table 9 (Continued) Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York

Sample Location	PCE µg/m^3	TCE µg/m^3	Cis-1,2-DCE µg/m^3	Vinyl Chloride µg/m^3
COMPUTER SERVICES/SERVERS				
Aug-07	46	-	-	-
Mar-08	-	-	-	-
Dec-08	34	0.2	-	-
Mar-09	27	0.15	-	-
Oct-09	5.4	-	-	-
Mar-10	20	-	-	-
Mar-11	10	0.37	-	-
Mar-12	6.3	-	-	-
Mar-13	4.1	-	-	-
Mar-14	11	2	-	-
Mar-15	110	-	-	-
Jun-15	91	-	-	-
Mar-16	13	-	-	-
BACKGROUND				
Nov-98	-	-	-	-
Dec-98	-	-	-	-
Mar-99	-	-	-	-
Feb-02	-	-	-	-
Apr-02	13	4	-	-
May-02	-	-	-	-
Sep-02	-	-	-	-
Aug-03	-	-	-	-
Sep-03	2.2	-	-	-
Jan-04	-	-	-	-
Apr-04	1.8	-	-	-
Sep-04	-	-	-	-
Mar-05	-	-	-	-
Sep-05	-	-	-	-
Apr-06	-	-	-	-
Sep-06	-	-	-	-
Mar-07	1.1	-	-	-
Aug-07	1.0	-	-	-
Mar-08	-	-	-	-
Dec-08	-	-	-	-
Mar-09	-	0.55	-	-
Oct-09	-	-	-	-
Mar-10	-	-	-	-
Mar-11	-	-	-	-
Mar-12	-	-	-	-
Mar-13	-	-	-	-
Mar-14	-	-	-	-
Mar-15	-	-	-	-
Mar-16	2.2	-	-	-

Notes:

- = Non-detect

µg/m³ = micrograms per cubic meter

Table 10 2018 Groundwater Monitoring Matrix, Former Dover Electronics Site, Kirkwood, New York

Monitoring Well ID	Water Bearing Unit	Well Included in Semi-Annual Sampling Program (March)	Well Included in Annual Sampling Program (Sept.) *
MW-2	Shallow	X	
MW-3	Shallow		X
MW-5	Shallow		
MW-6	Intermediate		
MW-7A	Shallow	X	X
MW-8	Intermediate		
MW-9	Shallow		
MW-11	Intermediate		
MW-12	Intermediate		
MW-13	Shallow		X
MW-14	Intermediate		
MW-15	Shallow		
MW-16	Shallow	X	X
MW-17	Shallow	X	
MW-18	Shallow		
MW-19	Shallow		X
MW-20	Abandoned		
MW-21	Intermediate		
MW-22	Intermediate	X	
MW-23	Shallow		
MW-24	Shallow		X
MW-25	Intermediate	X	X
MW-26	Intermediate		X
MW-27	Shallow	X	
MW-28	Shallow	X	X
MW-29	Shallow		
MW-30	Shallow		X
MW-31	Shallow		X
MW-32	Shallow		X
MW-33	Shallow		
MW-34	Deep		
MW-35	Intermediate		
MW-36	Shallow		
MW-37	Intermediate		X
MW-38	Intermediate		X
MP-1	Shallow		
MP-2	Shallow		
MP-3D	Intermediate	X	
MP-4	Shallow	X	X
MP-5	Shallow	X	X
MP-6S	Shallow	X	X
MP-6D	Intermediate		X
MP-7	Abandoned		
MP-8S	Shallow		X
MP-8D	Intermediate		X
MP-9	Abandoned		
MP-10S	Abandoned		
MP-10D	Abandoned		
MP-11	Shallow	X	X
MP-12	Shallow	X	X
MP-13	Shallow		X
MP-14	Shallow	X	X
IJ-1	Shallow		X
IJ-2	Shallow		
IJ-3	Shallow		
IJ-4	Shallow	X	X
IJ-5	Shallow	X	
IJ-6	Shallow-Intermediate		
IJ-7	Shallow		
IJ-8	Shallow	X	
IJ-9	Shallow		
IJ-10	Shallow	X	X

Notes:

X = Well is sampled according to the frequency noted at the top of the respective column.

* = The second semi-annual sampling event will be combined with the annual sampling event in September.

Appendices

Appendix A

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Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - JANUARY 2017

Project Number: 5101.0002
Weather: 40s cloudy

Personnel: MWG +BSN

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	1/11/2017	1/11/2017	1/11/2017	1/12/2017	1/12/2017		Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5				
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	10	5	5	10			**30**	6.15	
MW-16				80			**80**	17.45	
MW-24	10	15	10	5			**40**	35.70	
MW-25	70		95		126		**291**	12.01	
MW-28	20		20		10		**50**	11.91	
MP-4	15	10	15	10	20		**70**	6.50	
MP-5		20		20	10		**50**	12.53	
MP-11		5					**5**	8.10	
MP-12		80					**80**	14.15	
MP-14	10	10		20	10		**50**	8.30	
IJ-1		20	13	17			**50**	13.20	
IJ-2	35						**35**	29.90	
IJ-3							**0**	5.90	can't inject
IJ-4		7					**7**	4.60	
IJ-6	18		32	26	24		**100**	11.81	
IJ-7	7						**7**	10.56	
IJ-8	5						**5**	9.28	
IJ-9							**0**	1.50	can't inject
IJ-10		28	10	12			**50**	12.53	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**		**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - FEBRUARY 2017

Project Number: 5101.0002
Weather: 40's, Cloudy

Personnel: BSN, CF

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	2/21/2017	2/21/2017	2/22/2017	2/22/2017	2/23/2017		Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5				
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	20	10					**30**	5.65	
MW-16					80		**80**	14.54	
MW-24	20	10	15				**45**	34.37	
MW-25		110		115	50		**275**	11.12	
MW-28		30		20			**50**	11.11	
MP-4	20	10	15	5			**50**	5.57	
MP-5	10		50				**60**	11.59	
MP-11	5						**5**	7.74	
MP-12	30		20	10	20		**80**	10.03	
MP-14	15	10	25				**50**	5.24	
IJ-1	18		27	5	10		**60**	12.82	
IJ-2	36		5				**41**	30.11	
IJ-3							**0**	1.16	Cannot Inject
IJ-4	5			5			**10**	3.48	
IJ-6		17	15	38	30		**100**	11.21	
IJ-7							**0**	1.87	Cannot Inject
IJ-8	4						**4**	8.20	
IJ-9							**0**	0.71	Cannot Inject
IJ-10	17	3	28	2	10		**60**	11.37	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**		**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - March 2017

Project Number: 5101.0002
Weather: 30's, Rainy, Wintery mix

Personnel: BSN, CF, MWG

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	3/24/2017						Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5				
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	15						**15**	5.75	
MW-16							**0**	15.45	
MW-24	10						**10**	34.26	
MW-25	20						**20**	11.28	
MW-28							**0**	11.36	
MP-4	15						**15**	5.85	
MP-5							**0**	12.85	
MP-11							**--**	--	Plowed Over
MP-12	20						**20**	12.80	
MP-14	10						**10**	7.00	
IJ-1	20						**20**	13.39	
IJ-2	35						**35**	28.40	
IJ-3							**0**	1.53	Can't inject
IJ-4							**0**	3.60	
IJ-6	15						**15**	11.44	
IJ-7	15						**15**	16.00	
IJ-8	5						**5**	9.60	
IJ-9							**0**	0.60	Can't inject
IJ-10	20						**20**	12.35	
Total Injected Volume	**200**						**200**		

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Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - April 2017

Project Number: 5101.0002
Weather: 50's, Sunny

Personnel: BSN, CF

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	4/10/2017	4/11/2017	4/11/2017	4/11/2017	4/12/2017	4/12/2017	4/12/2017	Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5	6	7			
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	15	15		10	15	5	10	**70**	5.32	
MW-16						120	35	**155**	11.67	
MW-24	20	20		10	15	5	10	**80**	32.81	
MW-25	30		100	70	20	20	50	**290**	9.07	
MW-28			50	10			10	**70**	8.89	
MP-4	15	25		20	15	10	5	**90**	5.56	
MP-5	10	40		10			5	**65**	11.63	
MP-11		10						**10**	5.78	
MP-12	20	30		30	15		25	**120**	8.74	
MP-14					50			**50**	3.82	
IJ-1	20	30	15	10	15	10	10	**110**	12.37	
IJ-2	30			10	20		10	**70**	25.32	
IJ-3								**0**	1.03	Can't Inject
IJ-4		5						**5**	3.15	
IJ-6	15		20	10	15	15	20	**95**	9.12	
IJ-7								**0**	2.55	Can't Inject
IJ-8	5				5			**10**	7.89	
IJ-9								**0**	1.23	Can't Inject
IJ-10	20	25	15	10	15	15	10	**110**	11.04	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**1400**		

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Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - May 2017

Project Number: 5101.0002
Weather: 50's, Sunny

Personnel: BSN, MWG

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	5/10/2017	5/10/2017	5/10/2017	5/11/2017	5/11/2017			Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5	6	7			
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	15		15					**30**	5.89	
MW-16				120				**120**	13.38	
MW-24	15	10	15					**40**	33.27	
MW-25			70	60	100			**230**	10.11	
MW-28			50					**50**	9.87	
MP-4	10		20	20	20			**70**	4.44	
MP-5		50						**50**	12.30	
MP-11	5							**5**	6.83	
MP-12	30	30			20			**80**	10.50	
MP-14		50						**50**	5.30	
IJ-1	20	10			20			**50**	12.75	
IJ-2	33							**33**	28.21	
IJ-3								**0**	1.52	Can't Inject
IJ-4								**0**	3.06	
IJ-6	30	20	30		20			**100**	10.31	
IJ-7	20							**20**	18.86	
IJ-8	2							**2**	6.87	
IJ-9								**0**	1.05	Can't Inject
IJ-10	20	30			20			**70**	11.90	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**			**1000**		

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Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - June 2017

Project Number: 5101.0002
Weather: 80's, humid

Personnel: BSN, CF

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	6/19/2017	6/20/2017	6/20/2017	6/22/2017	6/22/2017			Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5	6	7			
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	20	10	10					**40**	2.62	
MW-16					120			**120**	15.31	
MW-24	20	10	10	10				**50**	31.05	
MW-25		80		40				**120**	10.43	Needs abandonment or development. Cannot reach minimum
MW-28				50				**50**	10.71	
MP-4	20	20	20	10				**70**	5.39	
MP-5			50					**50**	10.88	
MP-11		5	5					**10**	7.72	
MP-12	30	25		25	20			**100**	13.57	
MP-14			50					**50**	7.47	
IJ-1	18	15	10	20	10			**73**	12.25	
IJ-2	22							**22**	20.55	
IJ-3								**0**	2.27	Can't Inject
IJ-4	5		5		5			**15**	3.49	
IJ-6	15	20	25	25	25			**110**	10.04	
IJ-7	30							**30**	26.46	
IJ-8	5							**5**	8.84	
IJ-9								**0**	1.89	Can't Inject
IJ-10	15	15	15	20	20			**85**	12.14	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**			**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - July 2017

Project Number: 5101.0002
Weather: 70's, cloudy, hunmid, chance of rain

Personnel: BSN, CF

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	7/11/2017	7/11/2017	7/12/2017	7/12/2017	7/13/2017			Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5	6	7			
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	10	10	10	10				**40**	5.02	
MW-16					120			**120**	16.11	
MW-24	20	10	10	15				**55**	34.29	
MW-25		50	5					**55**	10.73	Needs development or abandonment
MW-28				50				**50**	11.58	
MP-4	25	25	10	15				**75**	6.59	
MP-5			50					**50**	13.11	
MP-11		10						**10**	8.36	
MP-12		40		40	30			**110**	13.54	
MP-14			50					**50**	8.71	
IJ-1	20	20	25	20	15			**100**	13.22	
IJ-2	40							**40**	27.29	
IJ-3	2							**2**	7.44	
IJ-4	6			5				**11**	4.15	
IJ-6	20	20	20	25	20			**105**	13.22	
IJ-7	33							**33**	24.75	
IJ-8	4							**4**	8.41	
IJ-9								**0**	2.57	Cannot Inject
IJ-10	20	15	20	20	15			**90**	12.98	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**			**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - August 2017

Project Number: 5101.0002
Weather: 80's, sunny, hot

Personnel: BSN, MWG

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	8/22/2017	8/23/2017	8/23/2017	8/24/2017	8/24/2017			Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5	6	7			
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	10	10	10	10				**40**	4.80	
MW-16					120			**120**	15.89	
MW-24	15	10	15	10				**50**	34.20	
MW-25		40		20				**60**	10.00	Needs development/replacement
MW-28		50			10			**60**	11.05	
MP-4	15	15	15	20	10			**75**	6.45	
MP-5			50	15				**65**	12.20	
MP-11		5		5				**10**	7.49	
MP-12	45		20	30				**95**	13.44	
MP-14			50		5			**55**	7.70	
IJ-1	19	15		16	15			**65**	12.75	
IJ-2	35	15	10	5				**65**	29.60	
IJ-3								**0**	2.00	can't inject
IJ-4				10				**10**	3.60	
IJ-6	17	15	15	30	25			**102**	11.59	
IJ-7	27	10		10				**47**	24.00	
IJ-8								**0**	6.50	can't inject
IJ-9								**0**	1.80	can't inject
IJ-10	17	15	15	19	15			**81**	11.61	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**			**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - September 2017

Project Number: 5101.0002
Weather: 70's, Sunny

Personnel: MWG + CF

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	9/19/2017	9/19/2017	9/19/2017	9/20/2017	9/20/2017			Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5					
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	10	10	10	10	5			**45**	6.56	
MW-16				50	60			**110**	18.00	
MW-24	20	10		15	10			**55**	34.94	
MW-25			60		40			**100**	12.82	Needs development/ replacement
MW-28		15	10	25				**50**	12.84	
MP-4	20	15	15	15	15			**80**	7.16	
MP-5		50	10		10			**70**	12.92	
MP-11	5							**5**	9.15	
MP-12			60	20	10			**90**	16.12	
MP-14		50						**50**	9.98	
IJ-1	20	10	10	20	10			**70**	13.54	
IJ-2	40							**40**	28.47	
IJ-3								**0**	2.59	Cannot Inject
IJ-4		10						**10**	5.10	
IJ-6	20	20	15	25	30			**110**	12.90	
IJ-7	35							**35**	25.56	
IJ-8	10							**10**	9.83	
IJ-9								**0**	2.44	Cannot Inject
IJ-10	20	10	10	20	10			**70**	12.49	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**			**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - October 2017

Project Number: 5101.0002
Weather: 60s sunny

Personnel: MWG + BSN

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	10/25/2017	10/25/2017	10/25/2017	10/26/2017	10/26/2017			Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5					
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	10	10	10					**30**	6.71	
MW-16					80			**80**	20.20	
MW-24	15	10	15					**40**	33.60	
MW-25	48	76		40	70			**234**	13.15	
MW-28	15	35						**50**	13.65	
MP-4	10	10	20	20	10			**70**	7.71	
MP-5				50				**50**	13.20	
MP-11			5					**5**	10.04	
MP-12			80					**80**	17.51	
MP-14				50				**50**	10.85	
IJ-1		20	20	10	10			**60**	13.71	
IJ-2	36							**36**	30.40	
IJ-3								**0**	2.55	Cannot Inject
IJ-4			10					**10**	5.71	
IJ-6	21	19	20	20	20			**100**	14.21	
IJ-7	33							**33**	28.00	
IJ-8	12							**12**	14.11	
IJ-9								**0**	2.05	Cannot Inject
IJ-10		20	20	10	10			**60**	12.65	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**			**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - November 2017

Project Number: 5101.0002
Weather: 30's, Cloudy, Breezy

Personnel: MWG + BSN

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	11/14/2017	11/14/2017	11/15/2017	11/15/2017	11/15/2017			Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5					
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	15	15						**30**	6.55	
MW-16				80				**80**	21.81	
MW-24	15	25						**40**	35.82	
MW-25	30		50	20	145			**245**	13.00	
MW-28			50					**50**	13.05	
MP-4	15	25		20	10			**70**	7.35	
MP-5			50					**50**	12.90	
MP-11	5							**5**	14.70	
MP-12		80						**80**	15.80	
MP-14			50					**50**	11.38	
IJ-1	20	15		25	10			**70**	13.30	
IJ-2	32							**32**	27.55	
IJ-3								**0**	4.10	Cannot Inject
IJ-4								**0**	5.45	
IJ-6	20	25		30	25			**100**	13.10	
IJ-7	26							**26**	23.65	
IJ-8	5							**5**	9.45	
IJ-9								**0**	2.44	Cannot Inject
IJ-10	17	15		25	10			**67**	12.05	
Total Injected Volume	**200**	**200**	**200**	**200**	**200**			**1000**		

VERINA Consulting Group, LLC

Sch. 40 PVC conversion factors:
2" PVC = 0.171 gal/ft
4" PVC = 0.652 gal/ft
6" PVC = 1.484 gal/ft

SODIUM PERMANGANATE MANUAL INJECTION LOG - December 2017

Project Number: 5101.0002
Weather: 20-30's, Snowy, Rain

Personnel: BSN + CF

Injection Solution Characteristics:

NaMnO4 Concentration (%): 40

Concentration of Injection Solution (%): 10

Date:	12/12/2017	12/12/2017	12/12/2017					Total Injected Volume (gal)	Water Level (ft)	Comments
Tank #	1	2	3	4	5					
Injection Well ID	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)	Volume Injected (gal)			
MW-7A	15	15						**30**	**6.51**	
MW-16								**0**		
MW-24	15	15	10					**40**	**35.98**	
MW-25		70	30					**100**	**13.29**	
MW-28		50						**50**	**13.46**	
MP-4	20	20	20					**60**	**7.61**	
MP-5								**0**		
MP-11	5							**5**	**10.51**	
MP-12	20		60					**80**	**17.09**	
MP-14								**0**		
IJ-1	20		25					**45**	**13.39**	
IJ-2	35							**35**	**29.61**	
IJ-3								**0**	**2.51**	Cannot Inject
IJ-4	10							**10**	**6.87**	
IJ-6		30	30					**60**	**13.49**	
IJ-7	30							**30**	**26.33**	
IJ-8	10							**10**	**11.71**	
IJ-9								**0**	**2.23**	Cannot Inject
IJ-10	20		25					**45**	**12.47**	
Total Injected Volume	**200**	**200**	**200**					**600**		

Appendix B

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.45

Personnel: LGT/ JDL

Well ID **IJ-1**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

				Interval Depth (feet)														
Date	Time	Color	Water Level	1			2			3			4			5			NOTES:
				16 ft TOC			18 ft TOC			20 ft TOC			22 ft TOC			24 ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/1/2011	7:44	Brown	13.26	7.54	39.9	0.23	6.35	-51.7	0.251	7.39	-42	0.255	7.34	1.1	0.26	6.5	494.9	0.513	
11/11/2011	15:22	Brown	13.67	7.36	-51.1	0.415	7.39	-54.3	0.418	7.41	-55.5	0.417	7.14	205.9	0.441	7.05	504.2	1.924	
11/23/2011	13:15	Clear	13.93	7.38	-25.2	0.508	7.25	53.2	0.539	6.89	428	0.585	7.66	458.2	1.919	--	--	--	
12/2/2011	14:05	Clear	14.50	7.91	360.6	0.622	7.56	451.6	0.653	7.99	558.4	2.159	8.03	573.8	2.631	--	--	--	
12/6/2011	--	--	--	Car parked over well, no readings taken					--	--	--	--	--	--	--	--	--	--	
12/16/2011	10:20	Clear	13.41	8.78	-8.2	0.722	8.01	310.4	0.863	8.58	50.2	1.893	8.55	128	2.029	--	--	--	
12/20/2011	14:25	Clear	13.63	Refer to Groundwater Sampling Logs															
12/28/2011	12:05	Clear	13.09	7.10	229.0	0.848	7.1	220.8	0.866	7.08	220	0.988	7.42	457.7	1.856	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.97

Personnel: LGT

Well ID **IJ-4**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)																	NOTES:
				1			2			3			4			5			6			
				10 ft TOC			12 ft TOC			14 ft TOC			16 ft TOC			18 ft TOC			20 ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
10/31/2011	16:04	Clear	3.06	6.46	-48.9	0.635	6.15	-67.3	1.015	6.12	-72.4	1.052	6.13	-78.1	1.058	6.14	-79.1	1.053	6.14	-82.9	1.052	
11/11/2011	11:00	Clear	3.94	6.45	2.31	1.23	6.48	2.35	1.237	6.47	2.37	1.237	6.49	2.51	1.247	6.49	2.67	1.251	6.48	2.89	1.256	
11/17/2011	13:34	Clear	3.7	6.39	-55.5	1.208	6.37	-69	1.269	6.38	-75.6	1.287	6.39	-78	1.284	6.4	-79.7	1.277	6.41	-81	1.267	
11/23/2011	14:55	Clear	3.43	6.59	-19.2	0.562	6.34	-31.7	1.192	6.33	-34.9	1.228	6.34	-40.7	1.255	6.34	-41.6	1.27	6.35	-42.8	1.274	
12/2/2011	--	--	--	Car parked over well, no readings taken					--	--	--	--	--	--	--	--	--	--	--	--	--	
12/6/2011	13:30	Clear	3.21	6.35	205.1	0.914	6.39	89.6	0.919	6.44	52.1	0.924	6.43	29.3	0.926	6.41	22.6	0.927	6.4	17.1	0.926	
12/16/2011	11:25	Clear	3.27	6.61	12.2	0.96	6.56	9.1	0.97	6.54	7.3	0.974	6.5	7.6	0.978	6.49	3.1	0.98	6.48	3	0.98	
12/21/2011	7:55	Clear	3.53	Refer to Groundwater Sampling Logs																		
12/28/2011	10:55	Clear	2.81	6.28	147.8	1.012	6.26	148.2	1.023	6.23	149.1	1.029	6.17	152.0	1.037	6.13	154.2	1.041	6.12	155	1.042	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.81

Personnel: LGT/ JDL

Well ID **IJ-5**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)																		NOTES:
				1			2			3			4			5			6			
				10 ft TOC			12 ft TOC			14 ft TOC			16 ft TOC			18 ft TOC			20 ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/11/2011	12:50	Clear	5.02	7.76	-32.7	0.329	7.25	0.327	-40.7	7.23	-56.4	0.33	7.22	-63.2	0.328	7.21	0.325	-66.8	7.21	-68.9	0.324	
11/17/2011	15:06	Clear	4.66	Did not have time to take readings					--	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2011	12:10	Clear	4.15	7.47	-30.8	0.306	7.39	0.307	-31.5	7.35	-36.9	0.308	7.31	-38.9	0.315	7.28	0.312	-40.8	7.27	-41.9	0.311	
12/2/2011	12:00	Clear	3.93	7.36	-19.1	0.312	7.28	-29	0.312	7.28	-24.2	0.314	7.29	-26.9	0.314	7.31	25.8	0.316	7.35	24.4	0.321	
12/6/2011	17:00	Clear	3.82	7.09	-23.1	0.298	7.03	-21	0.299	7.02	-20.3	0.299	7.02	-20.6	0.299	7.01	-20.5	0.3	7.01	-20.5	0.302	
12/16/2011	14:00	Clear	3.29	6.98	-5.4	0.291	7.00	-5.7	0.294	7.03	-9.5	0.295	7.04	-10.0	0.296	7.04	-10.0	0.296	7.05	-10.5	0.295	
12/21/2011	11:28	Clear	3.81	Refer to Groundwater Sampling Logs																		
12/28/2011	16:00	Clear	2.57	7.35	119.3	0.234	7.24	114.3	0.238	7.19	113.2	0.24	7.13	112.7	0.241	7.09	112.5	0.243	7.06	112.5	0.244	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.86

Personnel: LGT/ JDL

Well ID **IJ-10**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1			2			3			4			5			6			NOTES:
				14 ft TOC			16 ft TOC			18 ft TOC			20 ft TOC			22 ft TOC			24 ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
10/31/2011	15:23	Clear	11.9	7.14	-79.7	1.045	7.3	-86.1	1.054	7.16	-94.3	1.049	6.86	-102.4	1.102	6.83	-111.5	1.289	6.93	-119.4	1.377	
11/11/2011	16:11	Clear	12.51	7.49	0	1.248	7.47	-90.8	1.261	7.22	-114.5	1.342	7.2	-117.9	1.609	7.19	-116.6	1.694	--	--	--	
11/23/2011	16:15	--	--	No readings taken, care parked over well		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/2/2011	15:30	Clear	11.99	7.2	120.6	1.245	6.83	135	1.283	6.68	-47.2	1.363	6.72	-88.5	1.651	6.63	-100.9	1.754	--	--	--	
12/6/2011	14:00	Clear	12.19	7.03	29.9	1.156	7.04	-2.4	1.162	6.94	-59.8	1.23	7.01	-98.4	1.46	6.97	-100.7	1.576	--	--	--	
12/16/2011	10:50	Clear	12.24	7.22	57.3	1.103	7.20	37.6	1.107	7.08	-15.6	1.193	7.26	-76.4	1.419	7.21	-98.2	1.569	--	--	--	
12/20/2011	13:00	Clear	12.40	Refer to Groundwater Sampling Logs																		
12/28/2011	12:45	Clear	11.95	6.97	352.2	1.09	6.90	350.8	1.103	6.89	348	1.106	6.67	143.3	1.334	6.54	18.0	1.536	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.47

Personnel: LGT/ MPA

Well ID **MP-4**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)*														NOTES:
				1			2			3			4			5		
				~23 ft TOC			ft TOC			ft TOC			ft TOC			ft TOC		
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
10/31/2011	18:17	Clear	6.37	5.94	547.4	1.339	--	--	--	--	--	--	--	--	--	--	--	--	*One well volume was purged prior to recording parameters
11/11/2011	10:20	Clear	9.82	6.39	4.1	1.678	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2011	14:40	Clear	5.62	6.17	127.6	1.539	--	--	--	--	--	--	--	--	--	--	--	--	
12/2/2011	12:10	Clear	6.17	5.77	139	1.195	--	--	--	--	--	--	--	--	--	--	--	--	
12/16/2011	11:40	Clear	6.65	6.26	20	1.03	--	--	--	--	--	--	--	--	--	--	--	--	
12/19/2011	13:30	Clear	6.69	Refer to Groundwater Sampling Logs															
12/28/2011	11:15	Clear	5.98	6.16	148.1	0.94	--	--	--	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.31

Personnel: LGT

Well ID **MP-5**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)*															NOTES:
				1			2			3			4			5			
				~19 ft TOC			ft TOC			ft TOC			ft TOC			ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/1/2011	8:03	Clear	12.74	5.99	149.1	0.882	--	--	--	--	--	--	--	--	--	--	--	--	*One well volume was purged prior to recording parameters
11/11/2011	15:20	Clear	13.67	5.54	114.1	1.273	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2011	15:30	Clear	12.91	5.74	109.6	1.013	--	--	--	--	--	--	--	--	--	--	--	--	
12/2/2011	11:45	Clear	12.8	6.09	91.8	1.082	--	--	--	--	--	--	--	--	--	--	--	--	
12/16/2011	10:35	Clear	13.09	6.63	134.9	0.772	--	--	--	--	--	--	--	--	--	--	--	--	
12/19/2011	11:40	Clear	13.05	Refer to Groundwater Sampling Logs															
12/28/2011	12:15	Clear	12.68	7.32	374.4	0.694	--	--	--	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.52

Personnel: MPA

Well ID **MP-6S**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)*														NOTES:
				1			2			3			4			5		
				~19 ft TOC			ft TOC			ft TOC			ft TOC			ft TOC		
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
10/31/2011	13:05	Clear	12.06	6.11	520.3	1.603	--	--	--	--	--	--	--	--	--	--	--	--	*One well volume was purged prior to recording parameters
11/11/2011	16:00	Clear	12.56	6.01	118.1	1.409	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2011	12:50	Clear	11.7	6.07	206.7	1.398	--	--	--	--	--	--	--	--	--	--	--	--	
12/2/2011	11:15	Clear	11.62	6.24	97.6	1.346	--	--	--	--	--	--	--	--	--	--	--	--	
12/6/2011	--	Clear	11.21	6.13	106.4	1.329	--	--	--	--	--	--	--	--	--	--	--	--	
12/16/2011	13:00	Clear	11.77	6.47	9.4	1.310	--	--	--	--	--	--	--	--	--	--	--	--	
12/19/2011	8:20	Clear	11.95	Refer to Groundwater Sampling Logs															
12/28/2011	15:15	Clear	11.44	6.38	102.2	1.287	--	--	--	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 49.95

Personnel: MPA

Well ID **MP-6D**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)*														NOTES:
				1			2			3			4			5		
				~44 ft TOC			ft TOC			ft TOC			ft TOC			ft TOC		
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
10/31/2011	15:30	Clear	6.4	6.48	25.7	0.118	--	--	--	--	--	--	--	--	--	--	--	--	*One well volume was purged prior to recording parameters
11/11/2011	16:00	Clear	6.8	6.5	71	0.210	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2011	13:15	Clear	6.29	6.49	69.7	0.231	--	--	--	--	--	--	--	--	--	--	--	--	
12/2/2011	11:30	Clear	5.95	6.85	45.1	0.309	--	--	--	--	--	--	--	--	--	--	--	--	
12/6/2011	--	Clear	6.17	6.67	43.6	0.367	--	--	--	--	--	--	--	--	--	--	--	--	
12/16/2011	13:20	Clear	5.81	6.94	3.7	0.231	--	--	--	--	--	--	--	--	--	--	--	--	
12/19/2011	10:20	Clear	6.04	Refer to Groundwater Sampling Logs															
12/28/2011	15:30	Clear	6.11	7.12	101.8	0.121	--	--	--	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 21.01

Personnel: LGT

Well ID **MP-8S**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1 ~18 ft TOC			2 ft TOC			3 ft TOC			4 ft TOC			NOTES:
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
12/16/2011	15:00	Clear	11.71	7.29	-4.6	0.239	--	--	--	--	--	--	--	--	--	*One well volume was purged prior to recording parameters
12/20/2011	11:25	Clear	11.77	Refer to Groundwater Sampling Logs												
12/28/2011	14:00	Clear	11.52	7.07	15.7	0.247	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 53.98

Personnel: LGT

Well ID **MP-8D**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1 ~49 ft TOC			2 ft TOC			3 ft TOC			4 ft TOC			NOTES:
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
12/16/2011	15:20	Clear	11.52	7.9	-26.4	0.156	--	--	--	--	--	--	--	--	--	*One well volume was purged prior to recording parameters
12/20/2011	8:15	Clear	11.87	Refer to Groundwater Sampling Logs												
12/28/2011	14:20	Clear	11.36	7.71	24.7	0.159	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG
Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 56.15
Personnel: LGT

Well ID **MP-10D**
Specific conductivity unit YSI-600
(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1 ~51 ft TOC			2 ft TOC			3 ft TOC			4 ft TOC			NOTES:
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
12/16/2011	15:40	Clear	10.81	7.56	-116.7	0.767	--	--	--	--	--	--	--	--	--	*One well volume was purged prior to recording parameters
12/20/2011	12:15	Clear	11.11	Refer to Groundwater Sampling Logs												
12/28/2011	14:40	Clear	10.53	7.17	10.7	0.771	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 29.22

Personnel: LGT/JDL

Well ID **MP-11**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1			2			3			4			NOTES:
				20 ft TOC			22 ft TOC			24 ft TOC			26 ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/11/2011	14:05	Clear	7.73	6.86	-62.4	0.468	6.82	-65.2	0.465	6.74	-68.3	0.463	6.75	-72	0.469	
11/17/2011	14:45	Clear	7.89	6.83	-51.5	0.464	6.74	-63.5	0.462	6.72	-68.1	0.461	6.72	-69.8	0.462	
11/23/2011	13:50	Clear	7.9	6.72	-34.4	0.46	6.78	-39.6	0.458	6.95	-41.1	0.455	6.7	-42.2	0.461	
12/2/2011	13:35	Clear	7.72	6.66	72.5	0.444	6.5	77.9	0.45	6.46	82.9	0.449	6.44	87.6	0.447	
12/6/2011	--	--	--	Car parked over well, no readings taken					--	--	--	--	--	--	--	
12/16/2011	11:55	Clear	7.22	6.67	-0.1	0.808	6.67	-1	0.795	6.68	1.8	0.785	6.68	-4.2	0.795	
12/19/2011	14:05	Clear	7.44	Refer to Groundwater Sampling Logs												
12/28/2011	11:25	Clear	6.28	6.78	160.0	0.469	6.67	158.2	0.468	6.54	158.2	0.466	6.46	158.6	0.472	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.59

Personnel: LGT/JDL

Well ID **MP-12**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1			2			3			4			NOTES:
				16 ft TOC			18 ft TOC			20 ft TOC			22 ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/11/2011	--	Clear	14.98	6.96	-16.1	0.734	6.87	-36.7	0.727	6.84	-56.4	0.724	7.21	-95.2	0.725	
11/17/2011	14:58	Clear	14.74	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2011	13:30	Clear	14.25	0.96	-20.8	0.679	6.88	-22.2	0.682	6.84	-29.1	0.676	7.08	-106	0.667	
12/2/2011	13:15	Clear	12.2	6.7	63.5	0.695	6.64	73.2	0.708	6.63	77.6	0.704	6.66	78.2	0.693	
12/6/2011	16:20	Clear	13.94	6.93	-3.3	0.671	6.82	-3.4	0.671	6.78	-4.4	0.667	6.9	-21.4	0.638	
12/16/2011	12:40	Clear	13.15	6.8	10.7	0.711	6.79	9.5	0.725	6.76	8.7	0.73	6.85	-0.7	0.703	
12/20/2011	14:10	Clear	13.75	Refer to Groundwater Sampling Logs												
12/28/2011	15:00	Clear	12.18	6.94	57.6	0.631	6.65	83.6	0.642	6.61	88.1	0.637	6.62	88.9	0.551	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.66

Personnel: LGT

Well ID **MP-13**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1			2			3			4			NOTES:
				16 ft TOC			18 ft TOC			20 ft TOC			22 ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/11/2011	15:51	Clear	9.08	8.81	111.4	1.158	8.55	5.1	0.961	8.47	-20.7	0.917	8.44	-32.2	0.939	
11/23/2011	16:00	Clear	8.74	8.97	52.2	0.934	8.67	20.5	0.95	8.53	6.8	0.943	8.43	21.3	0.937	
12/2/2011	14:15	Clear	8.72	10.51	-0.4	0.889	8.90	43.0	0.933	8.43	36.4	0.963	8.31	37.2	0.954	
12/6/2011	15:12	Clear	8.97	9.10	-28.4	0.833	8.41	-26.7	0.90	8.37	-31.5	0.893	8.34	-32.1	0.891	
12/16/2011	10:00	Clear	9.02	10.13	-19.5	0.797	9.26	-13.2	0.891	8.81	-14.6	0.893	8.66	-16.0	0.889	
12/19/2011	10:02	Clear	8.96	Refer to Groundwater Sampling Logs												
12/28/2011	10:15	Clear	8.69	8.21	151.3	0.793	8.18	199.0	0.803	8.11	149.3	0.813	8.04	146.0	0.838	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 24.55

Personnel: LGT/ JDL

Well ID **MP-14**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

				Interval Depth (feet)																		
Date	Time	Color	Water Level	1			2			3			4			5			6			NOTES:
				16 ft TOC			18 ft TOC			20 ft TOC			22 ft TOC			ft TOC			ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/11/2011	13:05	Clear	9.21	6.31	-22.7	1.154	6.31	-41.6	1.159	6.31	-48.5	1.148	6.3	-55	1.136	--	--	--	--	--	--	
11/23/2011	12:35	Clear	8.28	6.54	-22.5	1.141	6.42	-29.1	1.151	6.4	-31.4	1.143	6.36	-38.6	1.121	--	--	--	--	--	--	
12/2/2011	12:50	Clear	7.2	6.02	95.5	1.115	6.01	110.9	1.169	6	110.9	1.164	6.01	119.1	1.149	--	--	--	--	--	--	
12/6/2011	16:40	Clear	8.18	6.37	-1.3	1.064	6.28	-4.9	1.062	6.25	-6.3	1.059	6.24	-8.1	1.043	--	--	--	--	--	--	
12/16/2011	13:40	Clear	7.61	6.24	4.6	1.000	6.28	0.8	1.614	6.22	-0.3	1.009	6.22	-3.8	1.005	--	--	--	--	--	--	
12/21/2011	9:25	Clear	8.24	Refer to Groundwater Sampling Logs																		
12/28/2011	15:45	Clear	6.65	6.44	145.2	0.980	6.21	147.6	0.997	6.13	149.3	0.994	6.06	157.1	0.988	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 16.38

Personnel: LGT

Well ID **MW-7A**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)																		NOTES:
				1			2			3			4			5			6			
				8 ft TOC			10 ft TOC			12 ft TOC			14 ft TOC			16 ft TOC			ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
10/31/2011	11:57	Clear	6	6.5	-33.8	0.472	6.46	-43.3	0.479	6.45	-44.7	0.481	6.1	-46.7	0.926	6.16	-56.3	1.112	--	--	--	
11/11/2011	15:03	Clear	7.13	6.37	-34.7	1.192	6.31	-36	1.215	6.3	-38.4	1.224	6.38	-46.3	1.285	--	--	--	--	--	--	
11/17/2011	16:04	Clear	6.58	6.19	-34.6	1.254	6.17	-36.2	1.271	6.16	-36.4	1.277	6.37	-45.3	1.358	--	--	--	--	--	--	
11/23/2011	15:45	Clear	6.24	6.44	186.7	1.225	6.35	139.7	1.238	6.3	121	1.245	6.33	108.1	1.278	--	--	--	--	--	--	
12/2/2011	14:00	Clear	5.84	6.42	97.3	0.707	6.4	104.2	0.733	6.4	106.8	0.747	6.26	116.2	1.062	--	--	--	--	--	--	
12/6/2011	15:55	Clear	6.46	7.21	9.4	0.828	6.94	11.2	0.828	6.71	10.1	0.833	6.46	20.6	1.137	--	--	--	--	--	--	
12/16/2011	11:05	Clear	5.75	7.21	12.5	0.775	6.84	16.9	0.867	6.61	18.7	0.901	6.58	18.8	0.918	--	--	--	--	--	--	
12/19/2011	11:45	Clear	6.33	Refer to Groundwater Sampling Logs																		
12/28/2011	10:35	Clear	4.95	7.19	99.3	0.725	6.75	122.5	0.766	6.59	130.6	0.787	6.48	138.2	0.796	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 26.57 (very soft)

Personnel: LGT

Well ID **MW-16**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1			2			3			4			5			6			NOTES:
				18 ft TOC			20 ft TOC			22 ft TOC			ft TOC			ft TOC			ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
11/11/2011	14:36	Clear	15.65	6.87	-46.3	0.505	6.65	-46.7	0.735	6.6	-45.2	0.781	--	--	--	--	--	--	--	--	--	Sonde stopped at the 22' interval
11/23/2011	14:20	Clear	15.95	6.94	-23.5	0.511	6.71	-22.1	0.652	6.67	-21.1	0.075	--	--	--	--	--	--	--	--	--	
12/2/2011	11:45	Clear	15.4	7.79	4.2	0.505	7.22	4.4	0.543	7.01	5	0.655	--	--	--	--	--	--	--	--	--	
12/16/2011	12:15	Clear	14.97	6.91	5.4	0.519	6.77	8.2	0.606	6.63	9.1	0.613	--	--	--	--	--	--	--	--	--	
12/21/2011	8:20	Clear	15.31	Refer to Groundwater Sampling Logs																		
12/28/2011	11:45	Clear	14.53	7.04	199.6	0.497	6.77	200.8	1.584	6.61	199.7	0.593	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG
Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 39.79
Personnel: LGT

Well ID **MW-25**
Specific conductivity unit YSI-600
(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet) 1			2			3			4			NOTES:
				34 ft TOC			36 ft TOC			ft TOC			ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
12/16/2011	14:40	Clear	11.28	6.56	-4.6	0.892	6.56	-5.5	0.887	--	--	--	--	--	--	
12/20/2011	8:20	Clear	11.47	Refer to Groundwater Sampling Logs												
12/28/2011	13:30	Clear	10.99	7.22	33.0	0.889	7.10	135	0.884	--	--	--	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 25.84

Personnel: LGT

Well ID **MW-28**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

				Interval Depth (feet)																		
Date	Time	Color	Water Level	1			2			3			4			5			6			NOTES:
				16 ft TOC			18 ft TOC			20 ft TOC			22 ft TOC			24 ft TOC			ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
12/16/2011	14:20	Clear	11.2	6.00	-0.3	1.153	5.98	-3.7	1.172	5.99	-7.4	1.167	6.00	-9.7	1.156	6.13	-16.0	1.178	--	--	--	
12/20/2011	10:10	Clear	11.58	Refer to Groundwater Sampling Logs																		
12/28/2011	13:40	Clear	10.88	5.69	65.6	1.174	5.66	66.2	1.191	5.61	63.4	1.200	5.60	62.4	1.188	5.63	46.9	1.195	--	--	--	

ft TOC feet from top of casing

ARCADIS

VERTICAL PROFILING MONITORING LOG

Former Dover Electronics Site, Kirkwood, New York

Well Total Depth (ft): 20.75

Personnel: LGT

Well ID **MW-30**

Specific conductivity unit YSI-600

(keep unit consistent for each measurement round)

Date	Time	Color	Water Level	Interval Depth (feet)												NOTES:
				1			2			3			4			
				16 ft TOC			ft TOC			ft TOC			ft TOC			
			ft TOC	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	pH	Redox	Cond.	
12/16/2011	18:10	Clear	12.27	7.43	-121.6	0.899	--	--	--	--	--	--	--	--	--	
12/21/2011	10:15	Clear	11.71	Refer to Groundwater Sampling Logs												
12/28/2011	14:00	Clear	11.52	7.07	-76.3	0.891	--	--	--	--	--	--	--	--	--	

ft TOC feet from top of casing

Appendix C

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__	
Monitoring Well:	MW-2	Date:	3/20/2017		
Field Personnel:	BSN	Weather:	20's Cloudy		

PRE-PURGE INFO:

Well Depth (ft btoc):	16.36	Depth to Water (ft btoc):	6.07
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	--
Volume Purged (gal):	~3	Sample ID:	MW-2/ MS/ MSD
Final Depth to Water (ft btoc):	7.76	Sample Time:	15:40

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:55	8.06	6.20	0.818	348.6	109.26	24.6	6.10	0.40	400	Lower Flow
15:00	7.72	6.43	0.798	332.7	84.97	19.9	7.02	0.39	250	Lower Flow
15:05	7.57	6.50	0.796	388.5	69.92	13.3	7.12	0.39	200	
15:10	7.57	6.55	0.803	396.5	58.68	12.3	7.25	0.39	200	
15:15	7.61	6.55	0.801	385.3	57.81	10.76	7.33	0.39	200	
15:20	7.68	6.54	0.790	405.3	55.31	6.79	7.42	0.39	200	
15:25	7.70	6.54	0.779	409.2	53.21	5.53	7.51	0.38	200	
15:30	7.73	6.52	0.770	402.8	51.33	5.71	7.63	0.38	200	
15:35	7.73	6.53	0.764	399.8	51.21	5.63	7.71	0.38	200	

VERINA

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-7A	Date:	3/20/2017	
Field Personnel:	CF	Weather:	20's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	~ 17	Depth to Water (ft btoc):	6.02
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	7-17
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~12

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	94.6/188.1
Volume Purged (gal):	~ 2.5	Sample ID:	MW-7A
Final Depth to Water (ft btoc):	7.86	Sample Time:	14:15

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
13:40	8.60	7.73	4.410	606.9	4.59	1101	6.41	2.36	300	
13:45	8.53	7.16	4.141	624.1	6.04	957	6.77	2.23	250	
13:50	8.05	6.92	4.074	631.4	7.57	922	7.09	2.17	200	
13:55	7.79	6.84	4.068	636.0	7.64	784	7.28	2.16	175	
14:00	7.73	6.76	4.138	639.8	7.38	-121.0	7.53	2.21	175	
14:05	7.75	6.71	4.212	644.3	6.83	-121	7.72	2.24	175	
14:10	7.79	6.68	4.300	650.2	6.72	-121	7.80	2.24	175	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-16	Date:	3/20/2017	
Field Personnel:	CF	Weather:	20's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	~28	Depth to Water (ft btoc):	15.82
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	18-28
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~23

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	78.2/158.4
Volume Purged (gal):	~2	Sample ID:	MW-16
Final Depth to Water (ft btoc):	15.28	Sample Time:	16:30

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
15:55	8.51	6.64	3.583	664.2	5.52	2.9	15.34	1.89	125	
16:00	8.82	6.58	3.566	666.3	5.49	2.8	15.33	1.88	125	
16:05	8.98	6.55	3.557	668.6	5.39	1.6	15.32	1.88	125	
16:10	9.06	6.55	2.559	670.0	5.13	1.2	15.31	1.88	125	
16:15	9.1	6.55	3.564	671.5	4.47	0.9	15.30	1.88	125	
16:20	9.18	6.55	3.567	672.0	4.88	0.9	15.31	1.88	125	
16:25	9.21	6.55	3.572	673.9	4.79	0.7	15.31	1.88	125	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-25	Date:	3/20/2017	
Field Personnel:	BSN	Weather:	30's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	38.95	Depth to Water (ft btoc):	11.15
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	34-39
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~37

POST-PURGE INFO:

Color:	Brown/Clear	Mn/MnO4 (mg/L):	--
Volume Purged (gal):	~5	Sample ID:	MW-25
Final Depth to Water (ft btoc):	11.47	Sample Time:	13:10

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:25	12.55	7.48	2.601	280.6	*36.2*	Over range	11.25	1.37	400	Water too dark brown
12:30	13.16	7.91	3.287	269.7	*27.26*	Over range	11.34	1.76	400	Water too dark brown
12:35	13.16	7.66	2.607	260.9	20.61	Over range	11.34	1.38	400	Water too dark brown
12:40	13.12	7.28	3.196	271.1	1.44	39.8	11.25	1.66	400	Water beginging to clear up
12:45	13.17	7.19	2.844	268.4	1.33	770.0	11.31	1.5	400	
12:50	13.21	7.12	2.851	269.4	1.56	771	11.35	1.49	400	
12:55	13.32	7.03	2.854	268.5	1.55	769	11.38	1.52	400	
13:00	13.32	6.99	2.860	267.9	1.53	770.0	11.41	1.53	400	
13:05	13.34	6.94	2.865	266.7	1.52	767	11.45	1.53	400	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-28	Date:	3/21/2017	
Field Personnel:	CF	Weather:	40's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	~25	Depth to Water (ft btoc):	11.37
PID Beneath PVC Cap (ppm)	N/A	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~20

POST-PURGE INFO:

Color:	Purple/Black	Mn/MnO4 (mg/L):	124.9/260
Volume Purged (gal):	~2	Sample ID:	MW-28
Final Depth to Water (ft btoc):	11.43	Sample Time:	13:50

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
13:15	13.07	6.04	4.697	789.2	21.60	-122.0	11.86	2.50	100	
13:20	12.83	6.14	4.706	783.2	25.46	-122	11.83	2.53	100	
13:25	13.11	6.20	4.713	783.3	26.72	-122	11.82	2.54	100	
13:30	13.10	6.21	4.673	785.8	27.25	-122	11.79	2.52	100	
13:35	13.01	6.20	4.674	786.7	26.91	-122	11.77	2.52	100	
13:40	12.96	6.19	4.664	788.7	26.62	-122	11.75	2.51	100	
13:45	12.81	6.20	4.632	789.9	25.69	-122	11.72	2.49	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-4	Date:	3/21/2017	
Field Personnel:	MWG	Weather:	30's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	23.45	Depth to Water (ft btoc):	5.15
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	17/27
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~22

POST-PURGE INFO:

Color:	Dark Purple	Mn/MnO4 (mg/L):	59.8/120.6
Volume Purged (gal):	~1.5	Sample ID:	MP-4, DUP-032117-02
Final Depth to Water (ft btoc):	7.7	Sample Time:	12:30

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
11:55	9.80	6.81	4.143	677.5	3.58	Over Range	6.70	2.21	100	
12:00	9.95	6.62	4.151	688.3	3.67	Over Range	6.90	2.21	100	
12:05	10.02	6.54	4.158	693.3	3.75	Over Range	7.00	2.21	100	
12:10	10.09	6.52	4.161	695.6	3.79	Over Range	7.03	2.22	100	
12:15	9.94	6.5	4.163	698	3.86	Over Range	7.10	2.22	100	
12:20	9.87	6.5	4.165	699.5	4	Over Range	7.15	2.22	100	
12:25	9.79	6.5	4.161	700.7	4.09	Over Range	7.20	2.22	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-5	Date:	3/20/2017	
Field Personnel:	BSN	Weather:	20's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	23.45	Depth to Water (ft btoc):	12.85
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	14-24
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~19

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	102.8/206.8
Volume Purged (gal):	~1.5	Sample ID:	MP-5
Final Depth to Water (ft btoc):	13.01	Sample Time:	11:15

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
10:40	8.37	6.33	7.677	788.0	10.29	0.64	12.91	4.12	50	Purple Water
10:45	9.13	6.34	7.540	784.0	6.27	0.45	12.93	4.17	50	
10:50	9.27	6.35	7.457	782.6	5.59	0.36	12.95	4.12	50	
10:55	9.48	6.36	7.402	781.3	5.22	0.38	12.96	4.09	50	
11:00	9.70	6.36	7.383	780.7	3.59	0.41	12.97	4.08	50	
11:05	9.80	6.37	7.359	780.2	3.71	0.4	12.98	4.06	50	
11:10	9.89	6.38	7.335	780.1	3.49	0.38	12.99	4.06	50	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-6S	Date:	3/21/2017	
Field Personnel:	MWG	Weather:	30's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	24.75	Depth to Water (ft btoc):	11.79
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	14-24
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~19

POST-PURGE INFO:

Color:	Light Purple	Mn/MnO4 (mg/L):	57.8/118.8
Volume Purged (gal):	~1.5	Sample ID:	MP-6S, DUP-032117
Final Depth to Water (ft btoc):	12.00	Sample Time:	11:00

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
10:20	9.73	6.46	5.629	612.0	3.19	4.67	12.07	3.15	100	
10:25	9.71	6.49	5.774	645.4	2.62	3.90	12.15	3.15	100	
10:30	9.87	6.48	5.806	657.6	2.26	3.56	12.20	3.16	100	
10:35	10.05	6.47	5.804	662.1	2.12	2.58	12.25	3.17	100	
10:40	10.07	6.47	5.829	666.3	1.97	2.28	12.30	3.18	100	
10:45	10.00	6.46	5.838	671.8	1.90	2.12	12.36	3.18	100	
10:50	10.01	6.46	5.849	673.9	1.87	2.01	12.40	3.18	100	
10:55	10.03	6.45	5.853	675.1	1.91	1.93	12.44	3.19	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-12	Date:	3/20/2017	
Field Personnel:	CF	Weather:	20's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	~25	Depth to Water (ft btoc):	12.72
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~18

POST-PURGE INFO:

Color:	purple/black	Mn/MnO4 (mg/L):	92.6/181.8
Volume Purged (gal):	~3	Sample ID:	MP-12
Final Depth to Water (ft btoc):	12.72	Sample Time:	10:35

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
10:00	10.11	6.74	28.620	682.2	7.82	-122.00	12.84	17.42	150	
10:05	9.63	6.73	22.890	689.6	7.44	-0.54	12.83	13.44	150	
10:10	9.69	6.69	19.600	691.1	6.78	-0.54	12.83	11.53	150	
10:15	9.77	6.64	16.740	692.8	5.46	-0.54	12.82	9.74	150	
10:20	9.86	6.60	15.2	694.2	5.33	-0.53	12.82	8.85	150	
10:25	10.05	6.59	15.200	695.5	5.05	-0.54	12.82	8.84	150	
10:30	10.03	6.59	14.930	695.4	5.23	-0.53	12.82	8.41	150	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-14	Date:	3/21/2017	
Field Personnel:	CF	Weather:	30's, Sunny/Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	~25	Depth to Water (ft btoc):	6.78
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~20

POST-PURGE INFO:

Color:	Clear/Brown	Mn/MnO4 (mg/L):	--
Volume Purged (gal):	~1.5	Sample ID:	MP-14
Final Depth to Water (ft btoc):	7.07	Sample Time:	9:40

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:00	9.76	5.97	4.485	359.7	5.79	890.0	7.03	2.42	100	
9:05	9.51	6.05	4.614	371.5	5.49	760	7.07	2.48	100	
9:10	9.43	6.00	4.644	384.0	4.54	603	7.04	2.49	100	
9:15	9.35	5.98	4.664	385.1	3.67	60.2	7.07	2.50	100	
9:20	9.33	5.97	4.672	385.8	3.34	59.5	7.08	2.51	100	
9:25	9.39	5.95	4.682	386.7	2.98	55.2	7.06	2.51	100	
9:30	9.44	5.95	4.690	415.0	2.77	51.2	7.07	2.52	100	
9:35	9.44	5.89	4.697	467.8	2.73	49.9	7.07	2.52	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	IJ-4	Date:	3/20/2017	
Field Personnel:	BSN	Weather:	20's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	24.9	Depth to Water (ft btoc):	12.78
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	10-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~18

POST-PURGE INFO:

Color:	Dark purple	Mn/MnO4 (mg/L):	185.9/373.8
Volume Purged (gal):	~3	Sample ID:	IJ-4
Final Depth to Water (ft btoc):	13.63	Sample Time:	12:50

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:15	10.39	9.49	50.62	725.4	-1.78	Over range	12.85	34.98	400	Water Too Dark, Lower flow
12:20	10.76	9.76	53.57	690.5	3.98	Over range	12.91	35.22	350	Water Too Dark
12:25	10.74	9.78	53.61	679.8	5.44	Over range	12.95	35.23	350	Water Too Dark, Lower flow
12:30	10.55	9.78	53.71	671.1	5.82	Over range	13.15	35.28	300	Water Too Dark
12:35	10.50	9.78	53.66	665.8	5.73	Over range	13.35	35.25	300	Water Too Dark
12:40	10.72	9.77	53.62	660.5	5.62	Over range	13.48	35.23	300	Water Too Dark
12:45	10.70	9.78	53.63	657.6	5.81	Over range	13.62	35.22	300	Water Too Dark

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LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	IJ-10	Date:	3/21/2017	
Field Personnel:	CF	Weather:	40's, sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	~ 25	Depth to Water (ft btoc):	12.13
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	10-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~18

POST-PURGE INFO:

Color:	Purple/Black	Mn/MnO4 (mg/L):	103.4/206
Volume Purged (gal):	~2.5	Sample ID:	IJ-10
Final Depth to Water (ft btoc):	12.65	Sample Time:	11:50

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
11:15	10.51	9.35	53.440	635.0	4.67	-0.52	12.24	35.13	150	
11:20	10.39	9.38	53.670	637.9	4.77	-0.52	12.27	35.23	100	
11:25	10.33	9.38	53.670	641.7	4.95	-0.52	12.37	32.22	100	
11:30	10.33	9.33	53.610	650.9	8.17	-0.52	12.46	35.29	125	
11:35	10.18	9.34	53.520	651	6.77	-0.52	12.55	35.12	125	
11:40	10.18	9.32	53.440	652.7	6.84	-0.51	12.57	35.06	125	
11:45	10.16	9.25	53.310	656.2	7.17	-0.52	12.63	34.95	120	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-3	Date:	9/12/2017	
Field Personnel:	BSN	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	14.45	Depth to Water (ft btoc):	5.12
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	5-15
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~10

POST-PURGE INFO:

Color:	Clear/ Slight pink hue	Mn/MnO4 (mg/L):	0.4/0.8
Volume Purged (gal):	~4.5	Sample ID:	MW-3 (MS/MSD)
Final Depth to Water (ft btoc):	5.33	Sample Time:	11:15

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
10:25	13.28	6.90	1.442	116.8	5.88	17.7	5.24	0.73	400	
10:30	12.36	6.71	1.792	221.8	2.99	19.3	5.25	0.98	400	
10:35	12.32	6.53	2.621	419.8	5.44	16.2	5.25	1.40	400	
10:40	12.29	6.44	3.123	515.4	3.84	15.9	5.26	1.67	400	
10:45	12.24	6.36	3.595	612.7	3.75	18.1	5.27	1.91	400	
10:50	12.24	6.36	3.622	617.3	3.59	18.5	5.27	1.92	400	
10:55	12.22	6.34	3.710	630.2	3.56	18.6	5.28	1.97	400	
11:00	12.22	6.33	3.771	638.5	3.51	17.9	5.29	1.99	400	
11:05	12.20	6.32	3.757	641.6	3.56	17.7	5.30	1.99	400	
11:10	12.21	6.32	3.765	643.3	3.54	17.8	5.31	1.99	400	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover - Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-7A	Date:	9/13/2017	
Field Personnel:	CF	Weather:	70-80's, Sunny, warm	

PRE-PURGE INFO:

Well Depth (ft btoc):	16.38	Depth to Water (ft btoc):	6.48
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	7-17
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~12

POST-PURGE INFO:

Color:	Dark Purple/ Purple	Mn/MnO4 (mg/L):	53.2/114.8
Volume Purged (gal):	~2	Sample ID:	MW-7A
Final Depth to Water (ft btoc):	8.31	Sample Time:	14:20

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
13:40	20.42	8.08	3.420	690.3	13.11	959	6.59	1.81	125	
13:45	19.82	7.14	3.459	718.6	10.30	1000	6.72	1.82	125	
13:50	19.47	6.96	2.909	719.0	9.31	692.0	6.93	1.51	125	
13:55	19.32	6.87	2.653	717.0	9.89	-67.0	7.12	1.37	125	
14:00	19.12	6.84	2.530	715.4	8.18	-66.0	7.27	1.31	125	
14:05	18.93	6.96	2.531	715.3	8.16	-66.0	7.40	1.31	125	
14:10	18.82	6.93	2.539	717.4	8.11	-65.0	7.63	1.34	125	
14:15	18.91	6.91	2.600	718.2	8.12	-65.0	7.79	1.35	125	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-13	Date:	9/11/2017	
Field Personnel:	BSN	Weather:	70's, sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	48.55	Depth to Water (ft btoc):	32.53
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	39-49
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~ 44

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~ 3	Sample ID:	MW-13
Final Depth to Water (ft btoc):	33.93	Sample Time:	14:55

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:20	15.07	7.81	0.426	156.9	3.68	7.34	33.34	0.20	300	Lowered Flow Rate
14:25	13.04	7.53	0.389	160.3	2.65	6.38	33.41	0.19	200	
14:30	12.56	7.42	0.378	160.8	2.29	4.98	33.52	0.18	200	
14:35	12.85	7.40	0.376	159.3	2.20	3.99	33.61	0.18	200	
14:40	13.01	7.40	0.376	156.8	2.11	3.79	33.73	0.18	200	
14:45	12.75	7.38	0.376	155.8	2.09	3.81	33.81	0.18	200	
14:50	12.84	7.39	0.376	152.8	2.07	3.77	33.88	0.18	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover - Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-16	Date:	9/13/2017	
Field Personnel:	BSN	Weather:	70's, sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	30.15	Depth to Water (ft btoc):	17.41
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	18-28
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~23

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	87.1/188.5
Volume Purged (gal):	~3.5	Sample ID:	MW-16
Final Depth to Water (ft btoc):	17.57	Sample Time:	13:25

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:45	14.65	6.29	3.879	702.1	13.77	Over Range	17.51	2.08	300	
12:50	12.83	6.17	3.932	708.6	10.16	Over Range	17.51	2.09	300	
12:55	12.40	6.14	3.945	711.2	15.10	Over Range	17.52	2.10	300	
13:00	11.85	6.17	3.984	715.5	14.30	Over Range	17.53	2.12	300	
13:05	11.79	6.23	4.009	716.3	14.58	Over Range	17.53	2.14	300	
13:10	11.74	6.28	4.056	717.7	14.87	Over Range	17.53	2.17	300	
13:15	11.73	6.27	4.057	717.8	16.18	Over Range	17.55	2.17	300	
13:20	11.64	6.28	4.071	718.2	15.53	Over Range	17.56	2.17	300	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__	
Monitoring Well:	MW-19	Date:	9/12/2017		
Field Personnel:	MWG	Weather:	60's, Cloudy		

PRE-PURGE INFO:

Well Depth (ft btoc):	19.2	Depth to Water (ft btoc):	13.50
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	8-18
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~18

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~ 3	Sample ID:	MW-19
Final Depth to Water (ft btoc):	15.40	Sample Time:	10:00

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:10	14.58	6.40	1.727	70.0	3.85	1222	13.70	0.87	200	
9:15	14.32	6.27	1.677	131.2	1.28	149	14.10	0.85	200	
9:20	14.38	6.26	1.675	140.2	1.29	93.0	14.30	0.85	200	
9:25	14.50	6.26	1.701	149.9	1.28	63.2	14.45	0.87	200	
9:30	14.55	6.27	1.733	156.1	1.25	31.0	14.70	0.88	200	
9:35	14.50	6.27	1.712	155.9	1.18	17.6	14.90	0.87	200	
9:40	14.50	6.27	1.697	154.1	1.10	11.7	15.00	0.85	200	
9:45	14.41	6.27	1.649	153.2	1.14	10.9	15.11	0.84	200	
9:50	14.39	6.27	1.647	152.1	1.10	10.3	15.19	0.83	200	
9:55	14.38	6.27	1.639	151.0	1.11	11.0	15.25	0.82	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover - Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-24	Date:	9/13/2017	
Field Personnel:	BSN	Weather:	60-70's, partly cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	43.20	Depth to Water (ft btoc):	35.61
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	35-45
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~41

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	162/349.2
Volume Purged (gal):	~3	Sample ID:	MW-24
Final Depth to Water (ft btoc):	37.55	Sample Time:	10:10

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:15	10.27	5.59	4.860	733.8	30.90	Over Range	35.31	2.54	300	
9:20	9.45	5.79	4.618	733.5	17.64	Over Range	35.81	2.46	300	
9:25	8.74	6.02	5.719	738.2	22.90	Over Range	35.81	3.19	300	Turned Down Flow Rate
9:30	8.77	6.07	5.893	737.9	25.79	Over Range	37.31	3.20	200	
9:35	9.24	6.11	5.868	740.0	21.86	Over Range	37.35	3.20	200	
9:40	9.64	6.12	6.001	742.4	22.08	Over Range	37.36	3.36	200	
9:45	9.66	6.13	6.551	745.4	22.79	Over Range	37.38	3.63	200	
9:50	9.74	6.14	6.987	747.7	21.97	Over Range	37.43	3.90	200	
9:55	9.73	6.15	7.610	749.9	21.81	Over Range	37.45	3.93	200	
10:00	9.70	6.18	7.743	750.2	22.11	Over Range	37.48	3.99	200	
10:05	9.69	6.18	7.795	750.6	22.03	Over Range	37.51	4.08	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover - Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-25	Date:	9/12/2017	
Field Personnel:	CF	Weather:	Cloudy/Sunny, cool/warm, 60-70's	

PRE-PURGE INFO:

Well Depth (ft btoc):	38.69	Depth to Water (ft btoc):	12.54
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	34-39
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~36

POST-PURGE INFO:

Color:	Purple/Dark Purple	Mn/MnO4 (mg/L):	76.7/165.1
Volume Purged (gal):	~2.5-3	Sample ID:	MW-25
Final Depth to Water (ft btoc):	12.57	Sample Time:	12:25

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
11:30	16.75	8.45	1.465	320.2	4.93	-37.0	12.68	0.75	125	
11:35	16.31	8.83	1.018	324.8	7.61	-42.0	12.69	0.93	125	
11:40	16.22	8.91	2.036	357.3	6.17	-48	12.69	1.05	125	
11:45	16.55	8.77	2.208	608.1	7.23	-59	12.69	1.14	125	
11:50	16.75	8.62	2.507	660.8	7.10	690	12.69	1.32	125	
11:55	17.03	8.29	2.983	689.1	6.52	635	12.68	1.58	125	
12:00	17.15	7.92	3.533	704.0	5.52	-68	12.69	1.90	125	
12:05	17.21	7.75	3.576	708.9	5.51	-69	12.69	2.09	125	
12:10	16.41	7.71	4.127	718.9	5.1	-0.32	12.69	2.21	125	
12:15	16.72	7.69	4.157	732.9	4.96	-0.34	12.69	2.24	125	
12:20	16.88	7.67	4.203	725.7	5.02	-0.35	12.69	2.24	125	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__	
Monitoring Well:	MW-26	Date:	9/12/2017		
Field Personnel:	BSN	Weather:	60's, cloudy, foggy		

PRE-PURGE INFO:

Well Depth (ft btoc):	28.24	Depth to Water (ft btoc):	13.61
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	22.5-27.5
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~ 25

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~ 4.5	Sample ID:	MW-26
Final Depth to Water (ft btoc):	13.85	Sample Time:	9:50

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:10	10.39	8.51	0.559	83.7	3.94	35.6	13.65	0.28	400	
9:15	9.63	7.38	0.888	95.8	2.39	21.3	13.71	0.49	400	
9:20	9.55	6.97	0.999	96.4	2.25	16.4	13.73	0.50	400	
9:25	9.53	6.78	1.078	98.0	2.64	16.4	13.74	0.53	400	
9:30	9.51	6.68	1.116	99.3	2.72	13.0	13.75	0.57	400	
9:35	9.49	6.63	1.171	100.2	2.56	12.5	13.78	0.59	400	
9:40	9.47	6.60	1.181	101.1	2.61	11.49	13.81	0.61	400	
9:45	9.47	6.58	1.187	100.9	2.71	11.64	13.83	0.62	400	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-27	Date:	9/12/2017	
Field Personnel:	MWG	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	26.91	Depth to Water (ft btoc):	13.20
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	16.5-26.5
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~ 22

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~3	Sample ID:	MW-27
Final Depth to Water (ft btoc):	14.89	Sample Time:	11:10

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
10:20	16.01	6.86	0.444	-28.5	3.66	7.39	13.20	0.21	250	
10:25	15.71	6.75	0.450	-46.7	1.11	7.16	13.31	0.22	250	
10:30	15.30	6.69	0.456	-67.3	0.89	18.9	13.69	0.22	250	
10:35	14.80	6.69	0.463	-69.7	0.81	21.0	14.00	0.22	250	
10:40	14.57	6.72	0.521	-81.7	0.62	20.9	14.20	0.25	250	
10:45	14.42	6.73	0.546	-88.7	0.50	17.9	14.37	0.27	250	
10:50	14.34	6.74	0.566	-93.4	0.46	15.0	14.50	0.28	250	
10:55	14.41	6.75	0.572	-96.8	0.43	14.6	14.59	0.28	250	
11:00	14.41	6.76	0.579	-99.6	0.41	16.0	14.65	0.29	250	
11:05	14.41	6.76	0.580	-104.9	0.40	15.1	14.70	0.29	250	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-28	Date:	9/13/2017	
Field Personnel:	CF	Weather:	Cloudy, 60-70's	

PRE-PURGE INFO:

Well Depth (ft btoc):	26.13	Depth to Water (ft btoc):	12.66
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	QED 1.75" bladder pump	Depth of Pump (ft btoc):	~20

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	72.8/157.3
Volume Purged (gal):	~1.5	Sample ID:	MW-28
Final Depth to Water (ft btoc):	13.02	Sample Time:	10:15

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:30	16.83	6.94	1.866	586.8	12.86	700.0	13.79	0.96	350	
9:35	16.29	6.63	1.877	638.9	11.15	692.0	13.42	0.96	100	
9:40	16.55	6.60	1.913	671.2	12.40	-60.0	13.48	0.98	200	
9:45	16.32	6.62	2.024	694.3	10.03	-64.0	13.66	1.04	200	
9:50	16.30	6.62	2.063	702.2	10.63	-65.0	13.46	1.06	100	
9:55	16.75	6.66	2.097	706.0	9.46	-66.0	13.06	1.08	100	
10:00	17.11	6.68	2.126	713.3	9.53	-66.0	12.96	1.09	100	
10:05	17.33	6.70	2.108	719.4	9.48	-67.0	12.94	1.14	100	
10:10	17.57	6.71	2.159	722.0	9.46	-67.0	12.92	1.16	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-30	Date:	9/12/2017	
Field Personnel:	MWG	Weather:	60's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	20.80	Depth to Water (ft btoc):	11.75
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~18

POST-PURGE INFO:

Color:	Gray to Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~2	Sample ID:	MW-30
Final Depth to Water (ft btoc):	15.21	Sample Time:	8:25

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
7:40	15.56	5.98	3.567	-59.6	8.51	too dark	13.60	1.94	400	Lower Flow
7:45	15.57	6.04	3.846	-72.1	7.41	too dark	14.40	2.03	200	Lower Flow
7:50	15.66	6.10	3.767	-66.4	7.26	16.0	14.40	2.02	100	
7:55	15.72	6.13	3.645	-65.0	7.04	8.00	14.47	1.95	100	
8:00	15.74	6.18	3.508	-64.6	6.88	20.0	14.75	1.85	100	
8:05	15.74	6.24	3.362	-64.5	6.62	21.0	14.81	1.78	100	
8:10	15.74	6.25	3.359	-64.3	6.58	19.0	14.86	1.76	100	
8:15	15.75	6.27	3.339	-61.7	6.41	19.0	14.91	1.76	100	
8:20	15.75	6.29	3.345	-62.1	6.35	18.0	14.99	1.76	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-31	Date:	9/11/2017	
Field Personnel:	CF	Weather:	Warm, sunny, 70's	

PRE-PURGE INFO:

Well Depth (ft btoc):	21.60	Depth to Water (ft btoc):	11.98
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	13-23
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~ 17

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~ 3.5	Sample ID:	MW-31
Final Depth to Water (ft btoc):	12.58	Sample Time:	13:20

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:40	18.30	6.40	3.022	104.3	6.64	5.30	12.13	1.58	250	
12:45	17.64	6.46	3.025	95.0	8.42	2.51	12.13	1.58	250	
12:50	17.49	6.50	3.023	90.7	9.52	1.77	12.14	1.58	250	
12:55	17.46	6.52	3.022	86.7	9.89	1.46	12.13	1.58	250	
13:00	17.45	6.53	3.018	82.6	10.46	1.44	12.13	1.58	250	
13:05	17.39	6.55	3.019	79.2	10.54	1.09	12.13	1.58	250	
13:10	17.36	6.57	3.017	75.9	10.49	1.04	12.13	1.58	250	
13:15	17.34	6.60	3.017	71.6	10.44	0.97	12.13	1.58	250	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-32	Date:	9/11/2017	
Field Personnel:	CF	Weather:	Sunny, 70's	

PRE-PURGE INFO:

Well Depth (ft btoc):	23.50	Depth to Water (ft btoc):	11.78
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	15.1-25.1
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~17

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~2.5	Sample ID:	MW-32
Final Depth to Water (ft btoc):	15.08	Sample Time:	15:05

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:20	20.05	6.32	1.680	-37.5	10.25	28.8	12.48	0.86	200	
14:25	18.34	5.98	1.824	-46.6	9.71	19.4	13.64	0.43	175	
14:30	18.32	5.99	1.782	-50.2	8.83	26.7	14.07	0.41	175	
14:35	18.79	6.04	1.734	-53.1	10.79	20.8	14.04	0.88	150	
14:40	18.23	6.06	1.687	-52.0	61.4	21.2	14.24	0.85	150	
14:45	18.08	6.05	1.641	-51.9	8.20	18.3	14.44	0.83	150	
14:50	17.94	6.08	1.667	-53.3	8.06	15.3	14.64	0.85	150	
14:55	17.92	6.10	1.668	-55.6	8.10	14.8	14.84	0.87	150	
15:00	17.97	6.12	1.670	-52.6	8.14	14.2	15.04	0.88	150	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__	
Monitoring Well:	MW-35	Date:	9/12/2017		
Field Personnel:	MWG	Weather:	70's, Sunny		

PRE-PURGE INFO:

Well Depth (ft btoc):	36.5	Depth to Water (ft btoc):	12.50
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	32-37
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~34

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~4.5	Sample ID:	MW-35
Final Depth to Water (ft btoc):	12.48	Sample Time:	13:10

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:20	16.98	6.64	1.193	62.7	3.79	too dark	12.50	0.59	300	
12:25	15.51	6.45	1.307	42.8	6.90	892	12.50	0.67	300	
12:30	15.25	6.43	1.410	41.3	9.87	745	12.50	0.72	300	
12:35	14.86	6.35	1.652	52.9	9.51	too dark	12.50	0.85	300	
12:40	14.83	6.33	1.749	62.1	10.07	46.3	12.50	0.90	300	
12:45	14.70	6.33	1.779	68.3	9.98	42.3	12.50	0.91	300	
12:50	14.66	6.32	1.800	72.9	9.65	41.0	12.50	0.93	300	
12:55	14.60	6.32	1.819	82.5	9.52	38.1	12.50	0.95	300	
13:00	14.54	6.32	1.827	85.1	9.49	38.0	12.50	0.96	300	
13:05	14.53	6.32	1.870	87.5	9.42	36.1	12.50	0.97	300	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-37	Date:	9/12/2017	
Field Personnel:	BSN	Weather:	60's, cloudy, foggy	

PRE-PURGE INFO:

Well Depth (ft btoc):	35.81	Depth to Water (ft btoc):	13.61
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	31-36
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~ 33

POST-PURGE INFO:

Color:	Gray to Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~4	Sample ID:	MW-37
Final Depth to Water (ft btoc):	14.69	Sample Time:	8:20

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
7:40	11.11	6.75	0.441	7.5	1.79	Too Dark	14.13	0.21	400	
7:45	10.67	6.81	0.432	-46.3	0.76	Too Dark	14.59	0.21	400	
7:50	10.58	6.84	0.460	-41.8	1.34	Too Dark	14.59	0.22	400	
7:55	10.46	6.84	0.504	-34.9	0.82	Too Dark	14.55	0.25	400	
8:00	10.38	6.84	0.541	-28.8	0.79	Too Dark	14.58	0.27	400	
8:05	10.34	6.82	0.545	-25.1	0.70	Too Dark	14.58	0.29	400	
8:10	10.31	6.82	0.531	-22.1	0.67	Too Dark	14.61	0.31	400	
8:15	10.32	6.81	0.537	-21.6	0.69	Too Dark	14.65	0.32	400	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MW-38	Date:	9/12/2017	
Field Personnel:	BSN	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	23.91	Depth to Water (ft btoc):	5.67
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~23

POST-PURGE INFO:

Color:	Clear, slightly cloudy	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~ 3	Sample ID:	MW-38
Final Depth to Water (ft btoc):	8.16	Sample Time:	13:05

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:30	11.60	7.05	1.118	470.1	6.44	121	6.33	0.59	400	Turned Down Flow Rate
12:35	9.59	6.02	1.162	526.6	5.32	62.3	7.99	0.58	300	Turned Down Flow Rate
12:40	9.91	5.88	1.189	540.6	5.75	41.8	7.91	0.60	200	
12:45	9.20	5.74	1.276	545.8	6.96	37.7	7.98	0.62	200	
12:50	9.31	5.70	1.284	547.7	6.87	36.3	8.01	0.65	200	
12:55	9.28	5.68	1.278	549.8	7.09	35.3	8.08	0.68	200	
13:00	9.23	5.66	1.261	549.7	6.98	33.9	8.13	0.67	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-4	Date:	9/13/2017	
Field Personnel:	MWG	Weather:	70's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	25.2	Depth to Water (ft btoc):	7.60
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	17-27
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~21

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	56.8/122.4
Volume Purged (gal):	~1.5	Sample ID:	MP-4 (DUP-091317)
Final Depth to Water (ft bto	1.57	Sample Time:	14:55

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:20	23.92	6.01	2.979	746.7	22.07	Out of Range	7.70	1.55	100	
14:25	23.83	6.18	2.992	748.4	17.28	Out of Range	8.55	1.56	100	
14:30	22.56	6.23	3.006	749.7	13.26	Out of Range	8.67	1.57	100	
14:35	22.35	6.27	3.018	751.4	11.20	Out of Range	8.75	1.57	100	
14:40	22.14	6.28	3.018	752.3	10.26	Out of Range	8.75	1.57	100	
14:45	22.01	6.29	3.017	751.9	9.70	Out of Range	8.79	1.57	100	
14:50	21.98	6.30	3.014	751.1	9.33	Out of Range	8.85	1.57	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-5	Date:	9/13/2017	
Field Personnel:	MWG	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	23.7	Depth to Water (ft btoc):	12.65
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	14-24
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~21

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	126/272.4
Volume Purged (gal):	~1.5	Sample ID:	MP-5
Final Depth to Water (ft btoc):	12.75	Sample Time:	13:35

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:50	23.40	5.96	11.24	802.0	49.17	Over Range	12.70	6.30	100	
12:55	22.82	6.09	10.54	793.2	49.87	Over Range	12.70	5.96	100	
13:00	22.70	6.17	10.17	791.5	50.27	Over Range	12.70	5.78	100	
13:05	22.31	6.21	9.779	788.9	50.42	Over Range	12.70	5.59	100	
13:10	22.06	6.28	9.644	786.4	50.77	Over Range	12.70	5.42	100	
13:15	21.89	6.32	9.478	784.8	51.44	Over Range	12.73	5.30	100	
13:20	21.84	6.35	9.280	784.3	51.65	Over Range	12.73	5.20	100	
13:25	21.84	6.36	9.199	783.9	51.54	Over Range	12.74	5.14	100	
13:30	21.83	6.36	9.180	783.6	51.65	Over Range	12.74	5.13	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-6S	Date:	9/12/2017	
Field Personnel:	CF	Weather:	Sunny, 70's	

PRE-PURGE INFO:

Well Depth (ft btoc):	25.02	Depth to Water (ft btoc):	12.20
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	14-24
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~19

POST-PURGE INFO:

Color:	Clear, Peach	Mn/MnO4 (mg/L):	1.3/2.8
Volume Purged (gal):	~1	Sample ID:	MP-6S
Final Depth to Water (ft btoc):	12.31	Sample Time:	14:05

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
13:30	21.02	6.57	4.093	612.2	10.60	47.7	12.21	2.18	100	
13:35	20.73	6.46	4.166	624.4	14.19	46.1	12.23	2.22	100	
13:40	20.41	6.43	4.199	633.0	13.60	40.2	12.23	2.24	100	
13:45	20.35	6.40	4.203	637.3	13.07	29.9	12.29	2.24	100	
13:50	20.42	6.39	4.203	638.8	13.60	19.6	12.31	2.24	100	
13:55	20.39	6.40	4.209	642.1	13.82	19.1	12.33	2.24	100	
14:00	20.42	6.39	4.203	645.3	13.58	18.2	12.28	2.24	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-6D	Date:	9/12/2017	
Field Personnel:	CF	Weather:	Sunny, 70's	

PRE-PURGE INFO:

Well Depth (ft btoc):	48.70	Depth to Water (ft btoc):	7.16
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	39-49
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~44

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~1	Sample ID:	MP-6D
Final Depth to Water (ft btoc):	7.23	Sample Time:	12:20

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
11:45	18.06	7.84	0.208	108.8	3.71	71.0	7.39	0.10	100	
11:50	17.27	7.45	0.336	118.4	3.36	121	7.43	0.17	100	
11:55	16.92	7.37	0.426	119.1	3.46	60.0	7.43	0.21	100	
12:00	16.68	7.36	0.475	118.5	3.65	34.8	7.43	0.23	100	
12:05	16.64	7.36	0.496	116.7	3.46	23.2	7.43	0.24	100	
12:10	16.62	7.36	0.499	116.6	3.39	23.5	7.43	0.24	100	
12:15	16.62	7.33	0.501	117.6	3.42	21.7	7.43	0.25	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-8S	Date:	9/12/2017	
Field Personnel:	CF	Weather:	Cloudy, 60's	

PRE-PURGE INFO:

Well Depth (ft btoc):	15.8	Depth to Water (ft btoc):	12.77
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	13-23
Pump Used:	Bladder pump 0.75"	Depth of Pump (ft btoc):	~14

POST-PURGE INFO:

Color:	Cloudy, Brown	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~1	Sample ID:	MP-8S
Final Depth to Water (ft bto	13.34	Sample Time:	8:55

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
8:15	16.73	7.34	0.002	178.7	8.45	9999.9	13.33	0.00	100	
8:20	17.75	6.66	0.701	3.5	9.04	968	13.37	0.35	100	
8:25	17.76	6.43	1.230	0.3	11.59	2447	13.37	0.62	100	
8:30	17.75	6.41	1.250	0.8	11.79	2872	13.37	0.63	100	
8:35	17.7	6.39	1.376	0.6	10.57	2376	13.29	0.69	100	
8:40	17.66	6.37	1.450	1.8	13.42	1960	13.34	0.73	100	
8:45	17.63	6.36	1.467	3.0	13.88	1883	13.32	0.76	100	
8:50	17.61	6.36	1.483	4.1	13.81	1824	13.33	0.78	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-8D	Date:	9/12/2017	
Field Personnel:	CF	Weather:	cloudy, foggy, 60's	

PRE-PURGE INFO:

Well Depth (ft btoc):	53.69	Depth to Water (ft btoc):	12.94
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	44-54
Pump Used:	QED 0.75" bladder	Depth of Pump (ft btoc):	~49

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~1	Sample ID:	MP-8D
Final Depth to Water (ft btoc):	12.97	Sample Time:	10:20

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:40	17.33	7.36	0.204	-3.0	3.12	969	13.03	0.10	100	
9:45	17.25	7.45	0.387	-23.2	2.40	147	13.03	0.19	100	
9:50	17.17	7.52	0.398	-36.5	3.44	65.0	13.03	0.19	100	
9:55	16.86	7.56	0.408	-40.0	2.88	48.7	13.03	0.20	100	
10:00	16.73	7.60	0.412	-38.6	4.41	40.9	13.03	0.20	100	
10:05	16.54	7.65	0.420	-32.7	2.72	32.1	13.03	0.20	100	
10:10	16.57	7.68	0.427	-30.6	2.69	29.5	13.03	0.21	100	
10:15	16.53	7.72	0.432	-28.8	2.75	29.8	13.03	0.21	100	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-11	Date:	9/13/2017	
Field Personnel:	BSN	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	29.05	Depth to Water (ft btoc):	5.93
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	20-30
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~25

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	80.6/175.5
Volume Purged (gal):	~2.5	Sample ID:	MP-11
Final Depth to Water (ft btoc):	6.31	Sample Time:	15:05

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:25	15.43	5.94	6.414	777.6	23.63	Over Range	5.81	3.54	200	
14:30	13.62	6.44	6.499	742.0	17.47	Over Range	5.91	3.58	200	
14:35	13.06	6.64	6.633	728.4	14.71	Over Range	5.97	3.66	200	
14:40	13.01	6.76	6.778	720.6	13.62	Over Range	6.03	3.74	200	
14:45	12.95	6.85	6.960	714.2	12.67	Over Range	6.08	3.85	200	
14:50	12.74	6.93	7.147	710.7	12.74	Over Range	6.13	3.96	200	
14:55	12.67	6.95	7.179	710.5	12.87	Over Range	6.19	3.97	200	
15:00	12.56	6.97	7.216	709.1	13.04	Over Range	6.25	3.99	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-12	Date:	9/13/2017	
Field Personnel:	MWG	Weather:	70's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	24.35	Depth to Water (ft btoc):	15.61
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~22

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	78.4/169.6
Volume Purged (gal):	~4	Sample ID:	MP-12
Final Depth to Water (ft btoc):	15.70	Sample Time:	11:30

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
10:45	15.43	7.13	43.89	717.1	8.74	Over Range	15.63	28.47	300	
10:50	15.51	7.22	43.17	724.2	12.08	Over Range	15.65	27.55	300	
10:55	15.61	7.11	36.40	736.4	19.50	Over Range	15.70	22.82	300	
11:00	15.58	6.65	23.84	755.1	22.82	Over Range	15.70	13.61	300	
11:05	15.59	6.58	21.42	761.2	21.77	Over Range	15.70	12.77	300	
11:10	15.62	6.55	20.60	761.7	20.49	Over Range	15.70	12.35	300	
11:15	15.53	6.53	19.72	764.1	19.00	Over Range	15.70	11.78	300	
11:20	15.53	6.52	19.60	765.9	18.90	Over Range	15.70	10.60	300	
11:25	15.56	6.52	19.41	766.8	18.58	Over Range	15.70	10.43	300	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-13	Date:	9/11/2017	
Field Personnel:	BSN	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	24.55	Depth to Water (ft btoc):	9.08
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~ 20

POST-PURGE INFO:

Color:	Clear	Mn/MnO4 (mg/L):	NA
Volume Purged (gal):	~3	Sample ID:	MP-13
Final Depth to Water (ft btoc):	11.99	Sample Time:	13:00

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
12:25	13.97	6.99	1.430	179.0	2.62	13.9	9.11	0.81	300	
12:30	13.02	7.14	1.598	136.7	1.65	11.2	11.55	0.82	300	Turned Down Flow
12:35	13.22	7.29	1.627	106.2	2.00	8.65	11.42	0.83	200	
12:40	13.50	7.38	1.612	91.9	2.06	5.57	11.63	0.82	200	
12:45	13.56	7.41	1.603	91.8	2.01	5.48	11.71	0.81	200	
12:50	13.47	7.44	1.593	93.6	2.13	5.44	11.83	0.81	200	
12:55	13.48	7.44	1.589	93.1	2.02	5.38	11.93	0.81	200	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	MP-14	Date:	9/13/2017	
Field Personnel:	BSN	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	23.3	Depth to Water (ft btoc):	9.71
PID Beneath PVC Cap (ppm):	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	QED 1.75" bladder	Depth of Pump (ft btoc):	~20

POST-PURGE INFO:

Color:	Pink	Mn/MnO4 (mg/L):	44.8/96
Volume Purged (gal):	~4	Sample ID:	MP-14
Final Depth to Water (ft btoc):	10.55	Sample Time:	11:45

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
11:00	13.26	5.78	3.509	340.4	30.48	1731.0	9.91	1.85	300	
11:05	12.55	5.71	3.412	366.5	28.13	1540	9.99	1.79	300	
11:10	12.42	5.65	3.377	389.2	31.23	1146	10.02	1.78	300	
11:15	12.49	5.51	3.310	642.3	22.46	682	10.21	1.75	300	
11:20	12.45	5.47	3.293	693.4	29.61	Over Range	10.32	1.74	300	
11:25	12.40	5.46	3.293	720.0	29.36	30.1	10.35	1.73	300	
11:30	12.39	5.44	3.293	725.5	29.37	29.8	10.41	1.73	300	
11:35	12.33	5.43	3.290	734.1	29.18	28.7	10.45	1.73	300	
11:40	12.31	5.43	3.289	735.2	29.11	29.6	10.51	1.73	300	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	IJ-1	Date:	9/12/2017	
Field Personnel:	MWG	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	24.3	Depth to Water (ft btoc):	13.30
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	15-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~21

POST-PURGE INFO:

Color:	Dark Purple	Mn/MnO4 (mg/L):	57.6/126
Volume Purged (gal):	~5	Sample ID:	IJ-1
Final Depth to Water (ft bto	14.5	Sample Time:	14:40

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:05	17.76	7.59	60.21	664.1	8.82	Over Range	13.50	40.89	400	
14:10	16.16	7.51	61.43	675.9	8.55	Over Range	13.65	41.35	400	
14:15	16.06	7.48	61.31	678.1	8.61	Over Range	13.90	41.13	400	
14:20	16.12	7.43	61.00	679.8	8.82	Over Range	14.19	40.88	400	
14:25	16.20	7.40	60.54	680.4	9.15	Over Range	14.27	40.72	400	
14:30	16.22	7.39	60.12	680.9	9.41	Over Range	14.35	40.33	400	
14:35	16.31	7.38	59.90	681.4	9.62	Over Range	14.41	40.05	400	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	IJ-4	Date:	9/13/2017	
Field Personnel:	MWG	Weather:	60's, Cloudy	

PRE-PURGE INFO:

Well Depth (ft btoc):	25.1	Depth to Water (ft btoc):	4.90
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	10-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~16

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	126/271.2
Volume Purged (gal):	~5	Sample ID:	IJ-4
Final Depth to Water (ft btoc):	6.40	Sample Time:	10:00

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
9:00	16.67	6.40	7.808	711.9	5.48	Over Range	4.90	4.36	400	
9:05	16.50	6.25	8.033	719.1	8.05	Over Range	5.05	4.43	400	
9:10	16.37	6.32	8.010	726.6	7.88	Over Range	5.20	4.48	400	
9:15	16.27	6.33	7.927	742.0	9.10	Over Range	5.50	4.41	400	
9:20	16.31	6.34	7.801	746.3	10.32	Over Range	5.70	4.33	400	
9:25	16.41	6.36	7.576	749.6	11.41	Over Range	6.00	4.19	400	Lower Flow Rate
9:30	16.53	6.37	7.332	752.2	12.00	Over Range	6.10	4.04	300	
9:35	16.60	6.37	7.197	753.3	12.11	Over Range	6.17	3.98	300	
9:40	16.68	6.38	7.013	754.7	11.99	Over Range	6.22	3.86	300	
9:45	16.85	6.39	6.702	756.1	11.97	Over Range	6.30	3.68	300	
9:50	16.89	6.39	6.648	756.9	11.90	Over Range	6.34	3.64	300	
9:55	16.90	6.39	6.611	757.0	11.89	Over Range	6.37	3.63	300	

LOW FLOW GROUND WATER PURGE/SAMPLING LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Project Name:	Dover-Kirkwood	Project #:	5101.0002	Page: _1__ of _1__
Monitoring Well:	IJ-10	Date:	9/12/2017	
Field Personnel:	BSN	Weather:	70's, Sunny	

PRE-PURGE INFO:

Well Depth (ft btoc):	23.9	Depth to Water (ft btoc):	12.21
PID Beneath PVC Cap (ppm)	NA	Screened/Open Interval (ft btoc):	10-25
Pump Used:	Bladder pump 1.75"	Depth of Pump (ft btoc):	~20

POST-PURGE INFO:

Color:	Purple	Mn/MnO4 (mg/L):	96.9/209
Volume Purged (gal):	~3.5	Sample ID:	IJ-10
Final Depth to Water (ft btoc):	12.91	Sample Time:	14:40

WELL PURGE DATA:

Time 5 minute intervals	**Temperature (°C)**	**pH (units)**	**Conductivity (us/cm)**	**REDOX (Eh-mV)**	**DO (mg/L)**	**Turbidity (NTU)**	**Depth to Water (ft)**	**Salinity (PPT)**	**Pumping Rate (ml/min)**	**Comment**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	10%	10%	0.3 ft		100 - 500	
14:05	15.57	8.51	62.36	628.5	18.11	Over Range	12.28	50.58	400	
14:10	13.13	9.23	73.96	649.4	18.65	Over Range	12.41	50.85	400	
14:15	13.05	9.32	74.03	652.7	18.60	Over Range	12.51	50.90	400	
14:20	13.11	9.32	74.07	650.2	18.03	Over Range	12.61	50.89	400	
14:25	13.06	9.30	74.04	654.2	17.99	Over Range	12.71	50.90	400	
14:30	13.07	9.30	74.00	653.3	17.76	Over Range	12.79	50.90	400	
14:35	13.11	9.31	74.00	654.6	17.52	Over Range	12.83	50.90	400	

Appendix D

March 30, 2017 Service Request No:R1702492

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

Laboratory Results for: Dover - Kirkwood

Dear Ms.Tufaro,

Enclosed are the results of the sample(s) submitted to our laboratory March 23, 2017
For your reference, these analyses have been assigned our service request number **R1702492.**

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.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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Narrative Documents

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

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request:R1702492
Date Received:3/23/17

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

Seventeen water samples were received for analysis at ALS Environmental on 03/23/2017. 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 ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Method 8260, R1702492-002, 004: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method 8260, R1702492-003: Sample required dilution due to the very dark color of the matrix. The reporting limits are adjusted to reflect the dilution.

Approved by _____ Date 3/30/2017

SAMPLE DETECTION SUMMARY

CLIENT ID: MP-12	Lab ID: R1702492-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	17		0.30	1.0	ug/L	8260C

CLIENT ID: MP-5	Lab ID: R1702492-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	29		0.75	2.5	ug/L	8260C

CLIENT ID: MW-7A	Lab ID: R1702492-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	44		1.5	5.0	ug/L	8260C

CLIENT ID: MW-2	Lab ID: R1702492-005					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	4.0		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	2.6		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.74	J	0.30	1.0	ug/L	8260C

CLIENT ID: MW-16	Lab ID: R1702492-006					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	32		0.30	1.0	ug/L	8260C

CLIENT ID: MW-14	Lab ID: R1702492-007					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	15		0.30	1.0	ug/L	8260C

CLIENT ID: MP-6S	Lab ID: R1702492-008					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	200		0.60	2.0	ug/L	8260C
Trichloroethene (TCE)	0.66	J	0.44	2.0	ug/L	8260C

CLIENT ID: IJ-10	Lab ID: R1702492-010					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	7.6	J	3.0	10	ug/L	8260C

CLIENT ID: MP-4	Lab ID: R1702492-011					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	2500	D	6.0	20	ug/L	8260C

CLIENT ID: MW-25	Lab ID: R1702492-012					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	99		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	2.2		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.5		0.30	1.0	ug/L	8260C

CLIENT ID: MW-28	Lab ID: R1702492-013					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	0.41	J	0.30	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: DUP-032117	Lab ID: R1702492-014					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	200		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	0.73	J	0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.57	J	0.30	1.0	ug/L	8260C

CLIENT ID: DUP-032117-02	Lab ID: R1702492-015					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	2800	D	6.0	20	ug/L	8260C

Sample Receipt Information

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

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1702492-001	MP-12	3/20/2017	1035
R1702492-002	MP-5	3/20/2017	1115
R1702492-003	IJ-4	3/20/2017	1250
R1702492-004	MW-7A	3/20/2017	1415
R1702492-005	MW-2	3/20/2017	1540
R1702492-006	MW-16	3/20/2017	1630
R1702492-007	MW-14	3/21/2017	0940
R1702492-008	MP-6S	3/21/2017	1100
R1702492-009	FB-032017	3/20/2017	1200
R1702492-010	IJ-10	3/21/2017	1150
R1702492-011	MP-4	3/21/2017	1230
R1702492-012	MW-25	3/21/2017	1310
R1702492-013	MW-28	3/21/2017	1350
R1702492-014	DUP-032117	3/21/2017	
R1702492-015	DUP-032117-02	3/21/2017	
R1702492-016	Trip Blank 1	3/21/2017	
R1702492-017	Trip Blank 2	3/21/2017	

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

43746

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: Dover - Kirkwood	Project Number: 5101.0002
Project Manager: Sarah Tufaro	Report CC: Matt Gandy
Company/Address: Verina Consulting Group, LLC 1011 US Highway 22, Suite 302 Bridgewater, NJ 08807	
Phone #: 908-864-4400	Email: stufaro@vcg-llc.com
Sampler's Signature:	Sampler's Printed Name: Matt Gandy

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: X (1,8)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SSPL VOCs	REMARKS/ ALTERNATE DESCRIPTION
MP-12	X	3/20/17	10:35	GW	3	X	
MP-5	X	3/20/17	11:15	GW	3	X	
IJ-4	X	3/20/17	12:50	GW	3	X	***
MW-7A (MP-7A)	X	3/20/17	14:15	GW	3	X	
MW-2 (MS/MSD)		3/20/17	15:40	GW	9	X	
MW-16	X	3/20/17	16:30	GW	3	X	
MP-14		3/21/17	9:40	GW	3	X	
MP-65	X	3/21/17	11:00	GW	3	X	**
FB-032017		3/20/17	12:00	FB	3	X	
IJ-10	X	3/21/17	11:50	GW	3	X	
MP-4	X	3/21/17	12:30	GW	3	X	***

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other $Na_2S_2O_3$

SPECIAL INSTRUCTIONS/COMMENTS

Metals SSPL VOCs = 1,1-DCA, 1,1-DCE, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,11-TCA, and vinyl chloride (8 compands)

MW-7A (MP-7A) is MW-7A as per Sarah Tufaro dtd 3/24/17

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO # 5101.0002
BILL TO: Verina

STATE WHERE SAMPLES WERE COLLECTED: New York

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Matt Gandy					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Matt Gandy	Printed Name	Printed Name	Printed Name	Printe	
Firm: Verina Consulting	Firm: ALS	Firm	Firm	Firm	
Date/Time: 3/22/17 4:00	Date/Time: 3/23/17 0915	Date/Time	Date/Time	Date/T	

R1702492
Verina Consulting Group, LLC
Dover - Kirkwood

5

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

43747

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Project Name: Dover-Kirkwood	Project Number: 5101.0002
Project Manager: Sarah Tufaro	Report CC: Matt Gandy
Company/Address: 1011 US Highway 22, Suite 302 Verina Consulting Group, LLC Bridgewater, NJ 08807	
Phone #	Email: stufaro@vcg-llc.com
Sampler's Signature:	Sampler's Printed Name: Matt Gandy

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: X 1,8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	5SPL VOCs						REMARKS/ ALTERNATE DESCRIPTION
MW-25		3/21/17	13:10	GW	3								X						
MW-28	X	3/21/17	13:50	GW	3								X						**
DUP-032117	X	3/21/17	-	GW	3								X						**
DUP-032117-02	X	3/21/17	-	GW	3								X						***
Trip Blank	X	-	-	TB	3								X						***
Trip Blank		-	-	TB	6														

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other $Na_2S_2O_3$

SPECIAL INSTRUCTIONS/COMMENTS

Metals SSPL VOCs = 1,1-DCA, 1,1-DCE, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,11-TCA, and Vinyl chloride (8 compounds)

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: New York

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS

____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata X Yes ____ No

INVOICE INFORMATION

PO # 5101.0002
BILL TO: Verina

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Matt Gandy					
Signature	Signature	Signature	Signature	Signat	
Printed Name: Matt Gandy	Printed Name	Printed Name	Printed Name	Printed	
Firm: Verina Consulting	Firm: AES	Firm	Firm	Firm	
Date/Time: 3/22/17 4:00	Date/Time: 3/23/17 0915	Date/Time	Date/Time	Date/Time	Date/Time

R1702492
Verina Consulting Group, LLC
Dover - Kirkwood

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Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

R1702492 5
Verina Consulting Group, LLC
Dover - Kirkwood

Project/Client Verina Folder Number R17-2492

Cooler received on 3/23/17 by: @ COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	(X) N	5a	Perchlorate samples have required headspace?	Y N (NA)
2	Custody papers properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* bubbles?	(Y) N NA
3	Did all bottles arrive in good condition (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) Dry Ice Gel packs present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 3/23/17 Time: 0923 ID: (IR#7) IR#8 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.9						
Correction Factor (°C)	+1.0						
Corrected Temp (°C)	2.9						
Temp from:Type of bottle	cont tube						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed 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 @ on 3/23/17 at 0930
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 3/23/17 Time: 1940 by: dh

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 N/A
13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
		$Na_2S_2O_3$	-	-						
		ZnAcetate	-	-						
		HCl	**	**	4115022					

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

Bottle lot numbers: 6-195-co1, Client Label

Explain all Discrepancies/ Other Comments:

Headspace – see COC * = # of vials w/ headspace

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

Labels secondary reviewed by: dh

PC Secondary Review: JMS 3/24/17

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

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1702492-001.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1242	In Lab / KRUEST	
		3/24/2017	1711	R-001-S12 / KRUEST	
R1702492-001.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-001.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-002.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1242	In Lab / KRUEST	
		3/24/2017	1711	R-001-S12 / KRUEST	
R1702492-002.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-002.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-003.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1242	In Lab / KRUEST	
		3/24/2017	1711	R-001-S12 / KRUEST	
R1702492-003.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-003.03					
		3/23/2017	1939	R-001 / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		3/23/2017	1939	SMO / DWARD	
R1702492-004.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1242	In Lab / KRUEST	
		3/24/2017	1711	R-001-S12 / KRUEST	
R1702492-004.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-004.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-005.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-005.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-005.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-005.04					
		3/23/2017	1939	SMO / DWARD	
R1702492-005.05					
		3/23/2017	1939	SMO / DWARD	
R1702492-005.06					
		3/23/2017	1939	SMO / DWARD	
R1702492-005.07					

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		3/23/2017	1939	SMO / DWARD	
R1702492-005.08					
		3/23/2017	1939	SMO / DWARD	
R1702492-005.09					
		3/23/2017	1939	SMO / DWARD	
R1702492-006.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1242	In Lab / KRUEST	
		3/24/2017	1711	R-001-S12 / KRUEST	
R1702492-006.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-006.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-007.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-007.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-007.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-008.01					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-008.02					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/27/2017	1401	In Lab / KRUEST	
		3/27/2017	1424	R-001-S12 / KRUEST	
R1702492-008.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-009.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-009.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-009.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-010.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-010.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-010.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1702492-011.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-011.02					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/27/2017	1401	In Lab / KRUEST	
		3/27/2017	1424	R-001-S12 / KRUEST	
R1702492-011.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-012.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-012.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-012.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-013.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1242	In Lab / KRUEST	
		3/24/2017	1711	R-001-S12 / KRUEST	
R1702492-013.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1702492-013.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-014.01					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-014.02					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/27/2017	1401	In Lab / KRUEST	
		3/27/2017	1424	R-001-S12 / KRUEST	
R1702492-014.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-015.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
R1702492-015.02					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/27/2017	1401	In Lab / KRUEST	
		3/27/2017	1424	R-001-S12 / KRUEST	
R1702492-015.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-016.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
R1702492-016.02					

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-016.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-017.01					
	8260C				
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
		3/24/2017	1626	In Lab / KRUEST	
		3/24/2017	1631	R-001-S12 / KRUEST	
R1702492-017.02					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	
R1702492-017.03					
		3/23/2017	1939	R-001 / DWARD	
		3/23/2017	1939	SMO / DWARD	

Miscellaneous Forms

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

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
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

[1] Analyses were performed according to our laboratoryôs 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

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.

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Sample Name: MP-12 **Date Collected:** 03/20/17
Lab Code: R1702492-001 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MP-5 **Date Collected:** 03/20/17
Lab Code: R1702492-002 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: IJ-4 **Date Collected:** 03/20/17
Lab Code: R1702492-003 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-7A **Date Collected:** 03/20/17
Lab Code: R1702492-004 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-2 **Date Collected:** 03/20/17
Lab Code: R1702492-005 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Sample Name: MW-16 **Date Collected:** 03/20/17
Lab Code: R1702492-006 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-14 **Date Collected:** 03/21/17
Lab Code: R1702492-007 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MP-6S **Date Collected:** 03/21/17
Lab Code: R1702492-008 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: FB-032017 **Date Collected:** 03/20/17
Lab Code: R1702492-009 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: IJ-10 **Date Collected:** 03/21/17
Lab Code: R1702492-010 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002

Sample Name: MP-4 **Date Collected:** 03/21/17
Lab Code: R1702492-011 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-25 **Date Collected:** 03/21/17
Lab Code: R1702492-012 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-28 **Date Collected:** 03/21/17
Lab Code: R1702492-013 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: DUP-032117 **Date Collected:** 03/21/17
Lab Code: R1702492-014 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: DUP-032117-02 **Date Collected:** 03/21/17
Lab Code: R1702492-015 **Date Received:** 03/23/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002		

Sample Name:	Trip Blank 2	**Date Collected:**	03/21/17
Lab Code:	R1702492-017	**Date Received:**	03/23/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

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

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

Volatile Organic Compounds by GC/MS

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

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 15:40
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R1702492-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	03/25/17 03:43	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	03/25/17 03:43	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	03/25/17 03:43	
Tetrachloroethene (PCE)	**4.0**		1.0	0.30	1	03/25/17 03:43	
Trichloroethene (TCE)	**2.6**		1.0	0.22	1	03/25/17 03:43	
Vinyl Chloride	1.0	U	1.0	0.32	1	03/25/17 03:43	
cis-1,2-Dichloroethene	**0.74**	**J**	1.0	0.30	1	03/25/17 03:43	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	03/25/17 03:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	03/25/17 03:43	
Dibromofluoromethane	110	89 - 119	03/25/17 03:43	
Toluene-d8	111	87 - 121	03/25/17 03:43	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 09:40
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R1702492-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 04:13	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 04:13	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 04:13	
Tetrachloroethene (PCE)	**15**	1.0	0.30	1	03/25/17 04:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 04:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 04:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 04:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 04:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	03/25/17 04:13	
Dibromofluoromethane	109	89 - 119	03/25/17 04:13	
Toluene-d8	112	87 - 121	03/25/17 04:13	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 12:00
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	FB-032017	**Units:**	ug/L
Lab Code:	R1702492-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 02:13	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 02:13	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 02:13	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/25/17 02:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 02:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 02:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 02:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 02:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/25/17 02:13	
Dibromofluoromethane	107	89 - 119	03/25/17 02:13	
Toluene-d8	106	87 - 121	03/25/17 02:13	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 13:10
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-25	**Units:**	ug/L
Lab Code:	R1702492-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 04:43	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 04:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 04:43	
Tetrachloroethene (PCE)	**99**	1.0	0.30	1	03/25/17 04:43	
Trichloroethene (TCE)	**2.2**	1.0	0.22	1	03/25/17 04:43	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 04:43	
cis-1,2-Dichloroethene	**1.5**	1.0	0.30	1	03/25/17 04:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 04:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	03/25/17 04:43	
Dibromofluoromethane	110	89 - 119	03/25/17 04:43	
Toluene-d8	111	87 - 121	03/25/17 04:43	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	Trip Blank 2	**Units:**	ug/L
Lab Code:	R1702492-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 03:13	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 03:13	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 03:13	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/25/17 03:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 03:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 03:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 03:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 03:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	03/25/17 03:13	
Dibromofluoromethane	109	89 - 119	03/25/17 03:13	
Toluene-d8	110	87 - 121	03/25/17 03:13	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 10:35
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-12	**Units:**	ug/L
Lab Code:	R1702492-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/24/17 18:12	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/17 18:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/24/17 18:12	
Tetrachloroethene (PCE)	**17**	1.0	0.30	1	03/24/17 18:12	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/24/17 18:12	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/24/17 18:12	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/24/17 18:12	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/24/17 18:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/24/17 18:12	
Dibromofluoromethane	105	89 - 119	03/24/17 18:12	
Toluene-d8	108	87 - 121	03/24/17 18:12	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 11:15
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-5	**Units:**	ug/L
Lab Code:	R1702492-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.5 U	2.5	0.90	2.5	03/24/17 16:43	
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	0.50	2.5	03/24/17 16:43	
1,1-Dichloroethene (1,1-DCE)	2.5 U	2.5	1.5	2.5	03/24/17 16:43	
Tetrachloroethene (PCE)	**29**	2.5	0.75	2.5	03/24/17 16:43	
Trichloroethene (TCE)	2.5 U	2.5	0.55	2.5	03/24/17 16:43	
Vinyl Chloride	2.5 U	2.5	0.80	2.5	03/24/17 16:43	
cis-1,2-Dichloroethene	2.5 U	2.5	0.75	2.5	03/24/17 16:43	
trans-1,2-Dichloroethene	2.5 U	2.5	0.83	2.5	03/24/17 16:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/24/17 16:43	
Dibromofluoromethane	105	89 - 119	03/24/17 16:43	
Toluene-d8	109	87 - 121	03/24/17 16:43	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 12:50
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	IJ-4	**Units:**	ug/L
Lab Code:	R1702492-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	3.6	10	03/24/17 16:10	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	03/24/17 16:10	
1,1-Dichloroethene (1,1-DCE)	10 U	10	5.7	10	03/24/17 16:10	
Tetrachloroethene (PCE)	10 U	10	3.0	10	03/24/17 16:10	
Trichloroethene (TCE)	10 U	10	2.2	10	03/24/17 16:10	
Vinyl Chloride	10 U	10	3.2	10	03/24/17 16:10	
cis-1,2-Dichloroethene	10 U	10	3.0	10	03/24/17 16:10	
trans-1,2-Dichloroethene	10 U	10	3.3	10	03/24/17 16:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/24/17 16:10	
Dibromofluoromethane	110	89 - 119	03/24/17 16:10	
Toluene-d8	109	87 - 121	03/24/17 16:10	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 14:15
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-7A	**Units:**	ug/L
Lab Code:	R1702492-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	03/24/17 17:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	03/24/17 17:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	03/24/17 17:13	
Tetrachloroethene (PCE)	**44**	5.0	1.5	5	03/24/17 17:13	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	03/24/17 17:13	
Vinyl Chloride	5.0 U	5.0	1.6	5	03/24/17 17:13	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	03/24/17 17:13	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	03/24/17 17:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	03/24/17 17:13	
Dibromofluoromethane	110	89 - 119	03/24/17 17:13	
Toluene-d8	112	87 - 121	03/24/17 17:13	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 16:30
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1702492-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/24/17 17:42	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/17 17:42	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/24/17 17:42	
Tetrachloroethene (PCE)	**32**	1.0	0.30	1	03/24/17 17:42	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/24/17 17:42	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/24/17 17:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/24/17 17:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/24/17 17:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	03/24/17 17:42	
Dibromofluoromethane	107	89 - 119	03/24/17 17:42	
Toluene-d8	107	87 - 121	03/24/17 17:42	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 11:00
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-6S	**Units:**	ug/L
Lab Code:	R1702492-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	0.72	2	03/27/17 13:23	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.40	2	03/27/17 13:23	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	1.2	2	03/27/17 13:23	
Tetrachloroethene (PCE)	**200**	2.0	0.60	2	03/27/17 13:23	
Trichloroethene (TCE)	**0.66 J**	2.0	0.44	2	03/27/17 13:23	
Vinyl Chloride	2.0 U	2.0	0.64	2	03/27/17 13:23	
cis-1,2-Dichloroethene	2.0 U	2.0	0.60	2	03/27/17 13:23	
trans-1,2-Dichloroethene	2.0 U	2.0	0.66	2	03/27/17 13:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/27/17 13:23	
Dibromofluoromethane	108	89 - 119	03/27/17 13:23	
Toluene-d8	109	87 - 121	03/27/17 13:23	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 11:50
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	IJ-10	**Units:**	ug/L
Lab Code:	R1702492-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10	U	10	3.6	10	03/25/17 07:12	
1,1-Dichloroethane (1,1-DCA)	10	U	10	2.0	10	03/25/17 07:12	
1,1-Dichloroethene (1,1-DCE)	10	U	10	5.7	10	03/25/17 07:12	
Tetrachloroethene (PCE)	**7.6**	**J**	10	3.0	10	03/25/17 07:12	
Trichloroethene (TCE)	10	U	10	2.2	10	03/25/17 07:12	
Vinyl Chloride	10	U	10	3.2	10	03/25/17 07:12	
cis-1,2-Dichloroethene	10	U	10	3.0	10	03/25/17 07:12	
trans-1,2-Dichloroethene	10	U	10	3.3	10	03/25/17 07:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/25/17 07:12	
Dibromofluoromethane	108	89 - 119	03/25/17 07:12	
Toluene-d8	110	87 - 121	03/25/17 07:12	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 12:30
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-4	**Units:**	ug/L
Lab Code:	R1702492-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10	U	10	3.6	10	03/25/17 05:42	
1,1-Dichloroethane (1,1-DCA)	10	U	10	2.0	10	03/25/17 05:42	
1,1-Dichloroethene (1,1-DCE)	10	U	10	5.7	10	03/25/17 05:42	
Tetrachloroethene (PCE)	**2500**	**D**	20	6.0	20	03/27/17 13:53	
Trichloroethene (TCE)	10	U	10	2.2	10	03/25/17 05:42	
Vinyl Chloride	10	U	10	3.2	10	03/25/17 05:42	
cis-1,2-Dichloroethene	10	U	10	3.0	10	03/25/17 05:42	
trans-1,2-Dichloroethene	10	U	10	3.3	10	03/25/17 05:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	03/25/17 05:42	
Dibromofluoromethane	109	89 - 119	03/25/17 05:42	
Toluene-d8	110	87 - 121	03/25/17 05:42	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 13:50
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-28	**Units:**	ug/L
Lab Code:	R1702492-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/24/17 18:42	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/17 18:42	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/24/17 18:42	
Tetrachloroethene (PCE)	**0.41 J**	1.0	0.30	1	03/24/17 18:42	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/24/17 18:42	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/24/17 18:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/24/17 18:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/24/17 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/24/17 18:42	
Dibromofluoromethane	108	89 - 119	03/24/17 18:42	
Toluene-d8	110	87 - 121	03/24/17 18:42	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	DUP-032117	**Units:**	ug/L
Lab Code:	R1702492-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/27/17 12:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/27/17 12:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/27/17 12:53	
Tetrachloroethene (PCE)	**200**	1.0	0.30	1	03/27/17 12:53	
Trichloroethene (TCE)	**0.73 J**	1.0	0.22	1	03/27/17 12:53	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/27/17 12:53	
cis-1,2-Dichloroethene	**0.57 J**	1.0	0.30	1	03/27/17 12:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/27/17 12:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	03/27/17 12:53	
Dibromofluoromethane	105	89 - 119	03/27/17 12:53	
Toluene-d8	110	87 - 121	03/27/17 12:53	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	DUP-032117-02	**Units:**	ug/L
Lab Code:	R1702492-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10	U	10	3.6	10	03/25/17 06:42	
1,1-Dichloroethane (1,1-DCA)	10	U	10	2.0	10	03/25/17 06:42	
1,1-Dichloroethene (1,1-DCE)	10	U	10	5.7	10	03/25/17 06:42	
Tetrachloroethene (PCE)	**2800**	**D**	20	6.0	20	03/27/17 14:23	
Trichloroethene (TCE)	10	U	10	2.2	10	03/25/17 06:42	
Vinyl Chloride	10	U	10	3.2	10	03/25/17 06:42	
cis-1,2-Dichloroethene	10	U	10	3.0	10	03/25/17 06:42	
trans-1,2-Dichloroethene	10	U	10	3.3	10	03/25/17 06:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/25/17 06:42	
Dibromofluoromethane	107	89 - 119	03/25/17 06:42	
Toluene-d8	112	87 - 121	03/25/17 06:42	

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
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
www.alsglobal.com

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 89 - 119	Toluene-d8 87 - 121
MW-2	R1702492-005	103	110	111
MW-14	R1702492-007	102	109	112
FB-032017	R1702492-009	100	107	106
MW-25	R1702492-012	103	110	111
Trip Blank 2	R1702492-017	102	109	110
Lab Control Sample	RQ1702477-03	106	114	112
Method Blank	RQ1702477-04	101	108	111
MW-2 MS	RQ1702477-05	102	111	111
MW-2 DMS	RQ1702477-06	101	110	108

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17
Sample Matrix:	Water	**Date Received:**	03/23/17
		Date Analyzed:	03/25/17
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R1702492-005	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ1702477-05			Duplicate Matrix Spike RQ1702477-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	1.0 U	52.9	50.0	106	52.7	50.0	105	74-127	<1	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	56.6	50.0	113	54.7	50.0	109	74-132	3	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	51.0	50.0	102	52.9	50.0	106	74-139	4	30
Tetrachloroethene (PCE)	4.0	54.7	50.0	102	54.9	50.0	102	67-137	<1	30
Trichloroethene (TCE)	2.6	54.2	50.0	103	53.9	50.0	103	62-142	<1	30
Vinyl Chloride	1.0 U	58.6	50.0	117	58.0	50.0	116	60-157	1	30
cis-1,2-Dichloroethene	0.74 J	54.9	50.0	108	52.9	50.0	104	72-133	4	30
trans-1,2-Dichloroethene	1.0 U	51.1	50.0	102	49.4	50.0	99	77-125	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/25/17 01:43
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank **Instrument ID:** R-MS-12
Lab Code: RQ1702477-04 **File ID:** I:\ACQUDATA\msvoa12\Data\032417\P8686.D\

Analysis Method: 8260C **Analysis Lot:** 539313
Prep Method: EPA 5030C

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1702477-03	I:\ACQUDATA\msvoa12\Data\032417\P8684.D\	03/25/17 00:43
FB-032017	R1702492-009	I:\ACQUDATA\msvoa12\Data\032417\P8687.D\	03/25/17 02:13
Trip Blank 2	R1702492-017	I:\ACQUDATA\msvoa12\Data\032417\P8689.D\	03/25/17 03:13
MW-2	R1702492-005	I:\ACQUDATA\msvoa12\Data\032417\P8690.D\	03/25/17 03:43
MW-14	R1702492-007	I:\ACQUDATA\msvoa12\Data\032417\P8691.D\	03/25/17 04:13
MW-25	R1702492-012	I:\ACQUDATA\msvoa12\Data\032417\P8692.D\	03/25/17 04:43
MW-2	RQ1702477-05	I:\ACQUDATA\msvoa12\Data\032417\P8698.D\	03/25/17 07:41
MW-2	RQ1702477-06	I:\ACQUDATA\msvoa12\Data\032417\P8699.D\	03/25/17 08:11

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1702477-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 01:43	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 01:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 01:43	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/25/17 01:43	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 01:43	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 01:43	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 01:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 01:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/25/17 01:43	
Dibromofluoromethane	108	89 - 119	03/25/17 01:43	
Toluene-d8	111	87 - 121	03/25/17 01:43	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/25/17 00:43
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1702477-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\032417\P8684.D\
Analysis Method:	8260C	**Analysis Lot:**	539313
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1702477-04	I:\ACQUDATA\msvoa12\Data\032417\P8686.D\	03/25/17 01:43
FB-032017	R1702492-009	I:\ACQUDATA\msvoa12\Data\032417\P8687.D\	03/25/17 02:13
Trip Blank 2	R1702492-017	I:\ACQUDATA\msvoa12\Data\032417\P8689.D\	03/25/17 03:13
MW-2	R1702492-005	I:\ACQUDATA\msvoa12\Data\032417\P8690.D\	03/25/17 03:43
MW-14	R1702492-007	I:\ACQUDATA\msvoa12\Data\032417\P8691.D\	03/25/17 04:13
MW-25	R1702492-012	I:\ACQUDATA\msvoa12\Data\032417\P8692.D\	03/25/17 04:43
MW-2	RQ1702477-05	I:\ACQUDATA\msvoa12\Data\032417\P8698.D\	03/25/17 07:41
MW-2	RQ1702477-06	I:\ACQUDATA\msvoa12\Data\032417\P8699.D\	03/25/17 08:11

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1702492
Date Analyzed: 03/25/17

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1702477-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.3	20.0	107	74-120
1,1-Dichloroethane (1,1-DCA)	8260C	21.2	20.0	106	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	20.8	20.0	104	74-135
Tetrachloroethene (PCE)	8260C	20.7	20.0	103	78-124
Trichloroethene (TCE)	8260C	23.4	20.0	117	78-123
Vinyl Chloride	8260C	22.1	20.0	110	69-133
cis-1,2-Dichloroethene	8260C	21.3	20.0	106	80-121
trans-1,2-Dichloroethene	8260C	19.7	20.0	99	80-120

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/24/17 23:43

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8682.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 539313

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	22.02	38882	Pass
75	95	30	60	51.59	91100	Pass
95	95	100	100	100.00	176573	Pass
96	95	5	9	5.96	10515	Pass
173	174	0	2	1.69	2423	Pass
174	95	50	120	81.29	143536	Pass
175	174	5	9	7.94	11391	Pass
176	174	95	101	95.07	136460	Pass
177	176	5	9	6.61	9019	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1702477-02	I:\ACQUDATA\msvoa12\Data\032417\P8683.D\	03/25/17 00:13	
Lab Control Sample	RQ1702477-03	I:\ACQUDATA\msvoa12\Data\032417\P8684.D\	03/25/17 00:43	
Method Blank	RQ1702477-04	I:\ACQUDATA\msvoa12\Data\032417\P8686.D\	03/25/17 01:43	
FB-032017	R1702492-009	I:\ACQUDATA\msvoa12\Data\032417\P8687.D\	03/25/17 02:13	
Trip Blank 2	R1702492-017	I:\ACQUDATA\msvoa12\Data\032417\P8689.D\	03/25/17 03:13	
MW-2	R1702492-005	I:\ACQUDATA\msvoa12\Data\032417\P8690.D\	03/25/17 03:43	
MW-14	R1702492-007	I:\ACQUDATA\msvoa12\Data\032417\P8691.D\	03/25/17 04:13	
MW-25	R1702492-012	I:\ACQUDATA\msvoa12\Data\032417\P8692.D\	03/25/17 04:43	
MW-2	RQ1702477-05	I:\ACQUDATA\msvoa12\Data\032417\P8698.D\	03/25/17 07:41	
MW-2	RQ1702477-06	I:\ACQUDATA\msvoa12\Data\032417\P8699.D\	03/25/17 08:11	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/25/17 00:13

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

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8683.D\ **Lab Code:**RQ1702477-02
Instrument ID: R-MS-12 **Analysis Lot:**539313
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	658,522	12.01	1,358,223	6.76	1,254,929	9.99
	Upper Limit ==>	1,317,044	12.51	2,716,446	7.26	2,509,858	10.49
	Lower Limit ==>	329,261	11.51	679,112	6.26	627,465	9.49
Associated Analyses							
Lab Control Sample	RQ1702477-03	647894	12.02	1299667	6.76	1218486	9.99
Method Blank	RQ1702477-04	605271	12.01	1289089	6.76	1199107	9.99
FB-032017	R1702492-009	609102	12.01	1308889	6.76	1191804	9.99
Trip Blank 2	R1702492-017	603747	12.01	1276997	6.76	1184292	9.99
MW-2	R1702492-005	588525	12.01	1267855	6.76	1193807	9.99
MW-14	R1702492-007	601175	12.01	1276131	6.76	1187319	9.99
MW-25	R1702492-012	599143	12.01	1277379	6.76	1193817	9.99
MW-2	RQ1702477-05	630342	12.01	1315884	6.76	1217467	9.99
MW-2	RQ1702477-06	657959	12.01	1359298	6.76	1228220	9.99

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/25/17 00:13

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

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8683.D\ **Lab Code:**RQ1702477-02
Instrument ID: R-MS-12 **Analysis Lot:**539313
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	825,556	5.73
	Upper Limit ==>	1,651,112	6.23
	Lower Limit ==>	412,778	5.23
Associated Analyses			
Lab Control Sample	RQ1702477-03	821817	5.73
Method Blank	RQ1702477-04	797418	5.73
FB-032017	R1702492-009	788883	5.73
Trip Blank 2	R1702492-017	797771	5.72
MW-2	R1702492-005	790256	5.72
MW-14	R1702492-007	771661	5.73
MW-25	R1702492-012	792854	5.73
MW-2	RQ1702477-05	783652	5.72
MW-2	RQ1702477-06	826987	5.72

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

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

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 89 - 119	Toluene-d8 87 - 121
MP-12	R1702492-001	100	105	108
MP-5	R1702492-002	99	105	109
IJ-4	R1702492-003	101	110	109
MW-7A	R1702492-004	104	110	112
MW-16	R1702492-006	103	107	107
MP-6S	R1702492-008	101	108	109
IJ-10	R1702492-010	99	108	110
MP-4	R1702492-011	102	109	110
MW-28	R1702492-013	100	108	110
DUP-032117	R1702492-014	104	105	110
DUP-032117-02	R1702492-015	100	107	112
Lab Control Sample	RQ1702468-03	101	109	109
Method Blank	RQ1702468-04	103	106	110
Lab Control Sample	RQ1702477-03	106	114	112
Method Blank	RQ1702477-04	101	108	111
Lab Control Sample	RQ1702521-03	104	110	112
Method Blank	RQ1702521-04	101	107	111

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/24/17 13:41
Sample Matrix:	Water	**Date Extracted:**	

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

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1702468-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\032417\P8662.D\
Analysis Method:	8260C	**Analysis Lot:**	539250
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1702468-03	I:\ACQUDATA\msvoa12\Data\032417\P8660.D\	03/24/17 12:41
IJ-4	R1702492-003	I:\ACQUDATA\msvoa12\Data\032417\P8667.D\	03/24/17 16:10
MP-5	R1702492-002	I:\ACQUDATA\msvoa12\Data\032417\P8668.D\	03/24/17 16:43
MW-7A	R1702492-004	I:\ACQUDATA\msvoa12\Data\032417\P8669.D\	03/24/17 17:13
MW-16	R1702492-006	I:\ACQUDATA\msvoa12\Data\032417\P8670.D\	03/24/17 17:42
MP-12	R1702492-001	I:\ACQUDATA\msvoa12\Data\032417\P8671.D\	03/24/17 18:12
MW-28	R1702492-013	I:\ACQUDATA\msvoa12\Data\032417\P8672.D\	03/24/17 18:42

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/25/17 01:43
Sample Matrix:	Water	**Date Extracted:**	

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

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1702477-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\032417\P8686.D\
Analysis Method:	8260C	**Analysis Lot:**	539313
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1702477-03	I:\ACQUDATA\msvoa12\Data\032417\P8684.D\	03/25/17 00:43
MP-4	R1702492-011	I:\ACQUDATA\msvoa12\Data\032417\P8694.D\	03/25/17 05:42
DUP-032117-02	R1702492-015	I:\ACQUDATA\msvoa12\Data\032417\P8696.D\	03/25/17 06:42
IJ-10	R1702492-010	I:\ACQUDATA\msvoa12\Data\032417\P8697.D\	03/25/17 07:12

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/27/17 12:22
Sample Matrix:	Water	**Date Extracted:**	

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

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1702521-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\032717\P8707.D\
Analysis Method:	8260C	**Analysis Lot:**	539480
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1702521-03	I:\ACQUDATA\msvoa12\Data\032717\P8705.D\	03/27/17 11:22
DUP-032117	R1702492-014	I:\ACQUDATA\msvoa12\Data\032717\P8708.D\	03/27/17 12:53
MP-6S	R1702492-008	I:\ACQUDATA\msvoa12\Data\032717\P8709.D\	03/27/17 13:23
MP-4	R1702492-011	I:\ACQUDATA\msvoa12\Data\032717\P8710.D\	03/27/17 13:53
DUP-032117-02	R1702492-015	I:\ACQUDATA\msvoa12\Data\032717\P8711.D\	03/27/17 14:23

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1702468-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/24/17 13:41	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/17 13:41	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/24/17 13:41	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/24/17 13:41	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/24/17 13:41	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/24/17 13:41	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/24/17 13:41	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/24/17 13:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	03/24/17 13:41	
Dibromofluoromethane	106	89 - 119	03/24/17 13:41	
Toluene-d8	110	87 - 121	03/24/17 13:41	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1702477-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 01:43	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 01:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 01:43	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/25/17 01:43	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 01:43	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 01:43	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 01:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 01:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/25/17 01:43	
Dibromofluoromethane	108	89 - 119	03/25/17 01:43	
Toluene-d8	111	87 - 121	03/25/17 01:43	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1702521-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/27/17 12:22	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/27/17 12:22	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/27/17 12:22	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/27/17 12:22	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/27/17 12:22	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/27/17 12:22	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/27/17 12:22	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/27/17 12:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/27/17 12:22	
Dibromofluoromethane	107	89 - 119	03/27/17 12:22	
Toluene-d8	111	87 - 121	03/27/17 12:22	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/24/17 12:41
Sample Matrix:	Water	**Date Extracted:**	

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

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1702468-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\032417\P8660.D\
Analysis Method:	8260C	**Analysis Lot:**	539250
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1702468-04	I:\ACQUDATA\msvoa12\Data\032417\P8662.D\	03/24/17 13:41
IJ-4	R1702492-003	I:\ACQUDATA\msvoa12\Data\032417\P8667.D\	03/24/17 16:10
MP-5	R1702492-002	I:\ACQUDATA\msvoa12\Data\032417\P8668.D\	03/24/17 16:43
MW-7A	R1702492-004	I:\ACQUDATA\msvoa12\Data\032417\P8669.D\	03/24/17 17:13
MW-16	R1702492-006	I:\ACQUDATA\msvoa12\Data\032417\P8670.D\	03/24/17 17:42
MP-12	R1702492-001	I:\ACQUDATA\msvoa12\Data\032417\P8671.D\	03/24/17 18:12
MW-28	R1702492-013	I:\ACQUDATA\msvoa12\Data\032417\P8672.D\	03/24/17 18:42

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/25/17 00:43
Sample Matrix:	Water	**Date Extracted:**	

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

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1702477-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\032417\P8684.D\
Analysis Method:	8260C	**Analysis Lot:**	539313
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1702477-04	I:\ACQUDATA\msvoa12\Data\032417\P8686.D\	03/25/17 01:43
MP-4	R1702492-011	I:\ACQUDATA\msvoa12\Data\032417\P8694.D\	03/25/17 05:42
DUP-032117-02	R1702492-015	I:\ACQUDATA\msvoa12\Data\032417\P8696.D\	03/25/17 06:42
IJ-10	R1702492-010	I:\ACQUDATA\msvoa12\Data\032417\P8697.D\	03/25/17 07:12

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	03/27/17 11:22
Sample Matrix:	Water	**Date Extracted:**	

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

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1702521-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\032717\P8705.D\
Analysis Method:	8260C	**Analysis Lot:**	539480
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1702521-04	I:\ACQUDATA\msvoa12\Data\032717\P8707.D\	03/27/17 12:22
DUP-032117	R1702492-014	I:\ACQUDATA\msvoa12\Data\032717\P8708.D\	03/27/17 12:53
MP-6S	R1702492-008	I:\ACQUDATA\msvoa12\Data\032717\P8709.D\	03/27/17 13:23
MP-4	R1702492-011	I:\ACQUDATA\msvoa12\Data\032717\P8710.D\	03/27/17 13:53
DUP-032117-02	R1702492-015	I:\ACQUDATA\msvoa12\Data\032717\P8711.D\	03/27/17 14:23

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1702492
Date Analyzed: 03/24/17

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

Units:ug/L
Basis:NA

Lab Control Sample
RQ1702468-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.5	20.0	98	74-120
1,1-Dichloroethane (1,1-DCA)	8260C	20.5	20.0	102	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	20.3	20.0	101	74-135
Tetrachloroethene (PCE)	8260C	18.0	20.0	90	78-124
Trichloroethene (TCE)	8260C	19.0	20.0	95	78-123
Vinyl Chloride	8260C	21.0	20.0	105	69-133
cis-1,2-Dichloroethene	8260C	19.9	20.0	100	80-121
trans-1,2-Dichloroethene	8260C	19.0	20.0	95	80-120

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1702492
Date Analyzed: 03/25/17

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

Units:ug/L
Basis:NA

Lab Control Sample
RQ1702477-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.3	20.0	107	74-120
1,1-Dichloroethane (1,1-DCA)	8260C	21.2	20.0	106	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	20.8	20.0	104	74-135
Tetrachloroethene (PCE)	8260C	20.7	20.0	103	78-124
Trichloroethene (TCE)	8260C	23.4	20.0	117	78-123
Vinyl Chloride	8260C	22.1	20.0	110	69-133
cis-1,2-Dichloroethene	8260C	21.3	20.0	106	80-121
trans-1,2-Dichloroethene	8260C	19.7	20.0	99	80-120

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1702492
Date Analyzed: 03/27/17

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

Units:ug/L
Basis:NA

Lab Control Sample
RQ1702521-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.5	20.0	102	74-120
1,1-Dichloroethane (1,1-DCA)	8260C	21.0	20.0	105	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	21.0	20.0	105	74-135
Tetrachloroethene (PCE)	8260C	18.7	20.0	93	78-124
Trichloroethene (TCE)	8260C	20.9	20.0	105	78-123
Vinyl Chloride	8260C	22.3	20.0	112	69-133
cis-1,2-Dichloroethene	8260C	19.4	20.0	97	80-121
trans-1,2-Dichloroethene	8260C	19.6	20.0	98	80-120

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/24/17 11:42

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8658.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 539250

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	21.25	82381	Pass
75	95	30	60	51.09	198068	Pass
95	95	100	100	100.00	387648	Pass
96	95	5	9	6.96	26963	Pass
173	174	0	2	1.35	4410	Pass
174	95	50	120	84.08	325952	Pass
175	174	5	9	7.94	25888	Pass
176	174	95	101	95.07	309867	Pass
177	176	5	9	6.83	21149	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1702468-02	I:\ACQUDATA\msvoa12\Data\032417\P8659.D\	03/24/17 12:11	
Lab Control Sample	RQ1702468-03	I:\ACQUDATA\msvoa12\Data\032417\P8660.D\	03/24/17 12:41	
Method Blank	RQ1702468-04	I:\ACQUDATA\msvoa12\Data\032417\P8662.D\	03/24/17 13:41	
IJ-4	R1702492-003	I:\ACQUDATA\msvoa12\Data\032417\P8667.D\	03/24/17 16:10	
MP-5	R1702492-002	I:\ACQUDATA\msvoa12\Data\032417\P8668.D\	03/24/17 16:43	
MW-7A	R1702492-004	I:\ACQUDATA\msvoa12\Data\032417\P8669.D\	03/24/17 17:13	
MW-16	R1702492-006	I:\ACQUDATA\msvoa12\Data\032417\P8670.D\	03/24/17 17:42	
MP-12	R1702492-001	I:\ACQUDATA\msvoa12\Data\032417\P8671.D\	03/24/17 18:12	
MW-28	R1702492-013	I:\ACQUDATA\msvoa12\Data\032417\P8672.D\	03/24/17 18:42	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/24/17 23:43

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8682.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 539313

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	22.02	38882	Pass
75	95	30	60	51.59	91100	Pass
95	95	100	100	100.00	176573	Pass
96	95	5	9	5.96	10515	Pass
173	174	0	2	1.69	2423	Pass
174	95	50	120	81.29	143536	Pass
175	174	5	9	7.94	11391	Pass
176	174	95	101	95.07	136460	Pass
177	176	5	9	6.61	9019	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1702477-02	I:\ACQUDATA\msvoa12\Data\032417\P8683.D\	03/25/17 00:13	
Lab Control Sample	RQ1702477-03	I:\ACQUDATA\msvoa12\Data\032417\P8684.D\	03/25/17 00:43	
Method Blank	RQ1702477-04	I:\ACQUDATA\msvoa12\Data\032417\P8686.D\	03/25/17 01:43	
MP-4	R1702492-011	I:\ACQUDATA\msvoa12\Data\032417\P8694.D\	03/25/17 05:42	
DUP-032117-02	R1702492-015	I:\ACQUDATA\msvoa12\Data\032417\P8696.D\	03/25/17 06:42	
IJ-10	R1702492-010	I:\ACQUDATA\msvoa12\Data\032417\P8697.D\	03/25/17 07:12	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/27/17 10:21

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\msvoa12\Data\032717\P8703.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 539480

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	22.00	85003	Pass
75	95	30	60	52.11	201365	Pass
95	95	100	100	100.00	386411	Pass
96	95	5	9	6.48	25024	Pass
173	174	0	2	1.44	4608	Pass
174	95	50	120	82.87	320213	Pass
175	174	5	9	8.26	26440	Pass
176	174	95	101	97.10	310912	Pass
177	176	5	9	6.26	19458	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1702521-02	I:\ACQUDATA\msvoa12\Data\032717\P8704.D\	03/27/17 10:51	
Lab Control Sample	RQ1702521-03	I:\ACQUDATA\msvoa12\Data\032717\P8705.D\	03/27/17 11:22	
Method Blank	RQ1702521-04	I:\ACQUDATA\msvoa12\Data\032717\P8707.D\	03/27/17 12:22	
DUP-032117	R1702492-014	I:\ACQUDATA\msvoa12\Data\032717\P8708.D\	03/27/17 12:53	
MP-6S	R1702492-008	I:\ACQUDATA\msvoa12\Data\032717\P8709.D\	03/27/17 13:23	
MP-4	R1702492-011	I:\ACQUDATA\msvoa12\Data\032717\P8710.D\	03/27/17 13:53	
DUP-032117-02	R1702492-015	I:\ACQUDATA\msvoa12\Data\032717\P8711.D\	03/27/17 14:23	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/24/17 12:11

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

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8659.D\ **Lab Code:**RQ1702468-02
Instrument ID: R-MS-12 **Analysis Lot:**539250
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	656,950	12.02	1,352,719	6.76	1,243,548	9.99
	Upper Limit ==>	1,313,900	12.52	2,705,438	7.26	2,487,096	10.49
	Lower Limit ==>	328,475	11.52	676,360	6.26	621,774	9.49
Associated Analyses							
Lab Control Sample	RQ1702468-03	631868	12.01	1385870	6.76	1265677	9.99
Method Blank	RQ1702468-04	610173	12.01	1315150	6.76	1221134	9.99
IJ-4	R1702492-003	608371	12.01	1294865	6.77	1205505	9.99
MP-5	R1702492-002	575521	12.01	1288883	6.76	1182824	9.99
MW-7A	R1702492-004	596762	12.01	1276307	6.76	1189488	9.99
MW-16	R1702492-006	590474	12.01	1291743	6.76	1179610	9.99
MP-12	R1702492-001	565263	12.02	1291368	6.76	1168187	9.99
MW-28	R1702492-013	585139	12.01	1299243	6.76	1178707	9.99

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/24/17 12:11

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

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8659.D\ **Lab Code:**RQ1702468-02
Instrument ID: R-MS-12 **Analysis Lot:**539250
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	850,770	5.73
	Upper Limit ==>	1,701,540	6.23
	Lower Limit ==>	425,385	5.23
Associated Analyses			
Lab Control Sample	RQ1702468-03	848404	5.73
Method Blank	RQ1702468-04	813734	5.73
IJ-4	R1702492-003	798466	5.73
MP-5	R1702492-002	795066	5.72
MW-7A	R1702492-004	803250	5.72
MW-16	R1702492-006	782958	5.73
MP-12	R1702492-001	789923	5.73
MW-28	R1702492-013	792761	5.73

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/25/17 00:13

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

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8683.D\ **Lab Code:**RQ1702477-02
Instrument ID: R-MS-12 **Analysis Lot:**539313
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	658,522	12.01	1,358,223	6.76	1,254,929	9.99
	Upper Limit ==>	1,317,044	12.51	2,716,446	7.26	2,509,858	10.49
	Lower Limit ==>	329,261	11.51	679,112	6.26	627,465	9.49
Associated Analyses							
Lab Control Sample	RQ1702477-03	647894	12.02	1299667	6.76	1218486	9.99
Method Blank	RQ1702477-04	605271	12.01	1289089	6.76	1199107	9.99
MP-4	R1702492-011.R01	595669	12.01	1286645	6.76	1169249	9.99
DUP-032117-02	R1702492-015.R01	597366	12.01	1285871	6.76	1179059	9.99
IJ-10	R1702492-010	582818	12.01	1270142	6.76	1158646	9.99

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/25/17 00:13

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

File ID: I:\ACQUDATA\msvoa12\Data\032417\P8683.D\ **Lab Code:**RQ1702477-02
Instrument ID: R-MS-12 **Analysis Lot:**539313
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	825,556	5.73
	Upper Limit ==>	1,651,112	6.23
	Lower Limit ==>	412,778	5.23
Associated Analyses			
Lab Control Sample	RQ1702477-03	821817	5.73
Method Blank	RQ1702477-04	797418	5.73
MP-4	R1702492-011.R01	779556	5.72
DUP-032117-02	R1702492-015.R01	785028	5.72
IJ-10	R1702492-010	796873	5.72

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/27/17 10:51

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

File ID: I:\ACQUDATA\msvoa12\Data\032717\P8704.D\ **Lab Code:**RQ1702521-02
Instrument ID: R-MS-12 **Analysis Lot:**539480
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	671,666	12.02	1,361,424	6.76	1,300,183	9.99
	Upper Limit ==>	1,343,332	12.52	2,722,848	7.26	2,600,366	10.49
	Lower Limit ==>	335,833	11.52	680,712	6.26	650,092	9.49
Associated Analyses							
Lab Control Sample	RQ1702521-03	677082	12.01	1376536	6.76	1282827	9.99
Method Blank	RQ1702521-04	633229	12.01	1336190	6.76	1222010	9.99
DUP-032117	R1702492-014	612205	12.01	1338529	6.76	1239415	9.99
MP-6S	R1702492-008	612755	12.01	1342165	6.76	1224346	9.99
MP-4	R1702492-011	617446	12.01	1316154	6.76	1215470	9.99
DUP-032117-02	R1702492-015	614490	12.01	1299850	6.76	1216761	9.99

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**03/27/17 10:51

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

File ID: I:\ACQUDATA\msvoa12\Data\032717\P8704.D\ **Lab Code:**RQ1702521-02
Instrument ID: R-MS-12 **Analysis Lot:**539480
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	827,804	5.73
	Upper Limit ==>	1,655,608	6.23
	Lower Limit ==>	413,902	5.23
Associated Analyses			
Lab Control Sample	RQ1702521-03	853728	5.73
Method Blank	RQ1702521-04	813330	5.73
DUP-032117	R1702492-014	808275	5.72
MP-6S	R1702492-008	820501	5.72
MP-4	R1702492-011	813262	5.73
DUP-032117-02	R1702492-015	810944	5.72

Raw Data

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

Volatile Organic Compounds by GC/MS

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

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 10:35
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-12	**Units:**	ug/L
Lab Code:	R1702492-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/24/17 18:12	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/17 18:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/24/17 18:12	
Tetrachloroethene (PCE)	**17**	1.0	0.30	1	03/24/17 18:12	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/24/17 18:12	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/24/17 18:12	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/24/17 18:12	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/24/17 18:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/24/17 18:12	
Dibromofluoromethane	105	89 - 119	03/24/17 18:12	
Toluene-d8	108	87 - 121	03/24/17 18:12	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 11:15
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-5	**Units:**	ug/L
Lab Code:	R1702492-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.5 U	2.5	0.90	2.5	03/24/17 16:43	
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	0.50	2.5	03/24/17 16:43	
1,1-Dichloroethene (1,1-DCE)	2.5 U	2.5	1.5	2.5	03/24/17 16:43	
Tetrachloroethene (PCE)	**29**	2.5	0.75	2.5	03/24/17 16:43	
Trichloroethene (TCE)	2.5 U	2.5	0.55	2.5	03/24/17 16:43	
Vinyl Chloride	2.5 U	2.5	0.80	2.5	03/24/17 16:43	
cis-1,2-Dichloroethene	2.5 U	2.5	0.75	2.5	03/24/17 16:43	
trans-1,2-Dichloroethene	2.5 U	2.5	0.83	2.5	03/24/17 16:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/24/17 16:43	
Dibromofluoromethane	105	89 - 119	03/24/17 16:43	
Toluene-d8	109	87 - 121	03/24/17 16:43	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 12:50
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	IJ-4	**Units:**	ug/L
Lab Code:	R1702492-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	3.6	10	03/24/17 16:10	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	03/24/17 16:10	
1,1-Dichloroethene (1,1-DCE)	10 U	10	5.7	10	03/24/17 16:10	
Tetrachloroethene (PCE)	10 U	10	3.0	10	03/24/17 16:10	
Trichloroethene (TCE)	10 U	10	2.2	10	03/24/17 16:10	
Vinyl Chloride	10 U	10	3.2	10	03/24/17 16:10	
cis-1,2-Dichloroethene	10 U	10	3.0	10	03/24/17 16:10	
trans-1,2-Dichloroethene	10 U	10	3.3	10	03/24/17 16:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/24/17 16:10	
Dibromofluoromethane	110	89 - 119	03/24/17 16:10	
Toluene-d8	109	87 - 121	03/24/17 16:10	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 14:15
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-7A	**Units:**	ug/L
Lab Code:	R1702492-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	03/24/17 17:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	03/24/17 17:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	03/24/17 17:13	
Tetrachloroethene (PCE)	**44**	5.0	1.5	5	03/24/17 17:13	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	03/24/17 17:13	
Vinyl Chloride	5.0 U	5.0	1.6	5	03/24/17 17:13	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	03/24/17 17:13	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	03/24/17 17:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	03/24/17 17:13	
Dibromofluoromethane	110	89 - 119	03/24/17 17:13	
Toluene-d8	112	87 - 121	03/24/17 17:13	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 16:30
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1702492-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/24/17 17:42	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/17 17:42	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/24/17 17:42	
Tetrachloroethene (PCE)	**32**	1.0	0.30	1	03/24/17 17:42	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/24/17 17:42	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/24/17 17:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/24/17 17:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/24/17 17:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	03/24/17 17:42	
Dibromofluoromethane	107	89 - 119	03/24/17 17:42	
Toluene-d8	107	87 - 121	03/24/17 17:42	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 11:00
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-6S	**Units:**	ug/L
Lab Code:	R1702492-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	0.72	2	03/27/17 13:23	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.40	2	03/27/17 13:23	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	1.2	2	03/27/17 13:23	
Tetrachloroethene (PCE)	**200**	2.0	0.60	2	03/27/17 13:23	
Trichloroethene (TCE)	**0.66 J**	2.0	0.44	2	03/27/17 13:23	
Vinyl Chloride	2.0 U	2.0	0.64	2	03/27/17 13:23	
cis-1,2-Dichloroethene	2.0 U	2.0	0.60	2	03/27/17 13:23	
trans-1,2-Dichloroethene	2.0 U	2.0	0.66	2	03/27/17 13:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/27/17 13:23	
Dibromofluoromethane	108	89 - 119	03/27/17 13:23	
Toluene-d8	109	87 - 121	03/27/17 13:23	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 11:50
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	IJ-10	**Units:**	ug/L
Lab Code:	R1702492-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	3.6	10	03/25/17 07:12	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	03/25/17 07:12	
1,1-Dichloroethene (1,1-DCE)	10 U	10	5.7	10	03/25/17 07:12	
Tetrachloroethene (PCE)	**7.6 J**	10	3.0	10	03/25/17 07:12	
Trichloroethene (TCE)	10 U	10	2.2	10	03/25/17 07:12	
Vinyl Chloride	10 U	10	3.2	10	03/25/17 07:12	
cis-1,2-Dichloroethene	10 U	10	3.0	10	03/25/17 07:12	
trans-1,2-Dichloroethene	10 U	10	3.3	10	03/25/17 07:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/25/17 07:12	
Dibromofluoromethane	108	89 - 119	03/25/17 07:12	
Toluene-d8	110	87 - 121	03/25/17 07:12	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 12:30
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MP-4	**Units:**	ug/L
Lab Code:	R1702492-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10	U	10	3.6	10	03/25/17 05:42	
1,1-Dichloroethane (1,1-DCA)	10	U	10	2.0	10	03/25/17 05:42	
1,1-Dichloroethene (1,1-DCE)	10	U	10	5.7	10	03/25/17 05:42	
Tetrachloroethene (PCE)	**2500**	**D**	20	6.0	20	03/27/17 13:53	
Trichloroethene (TCE)	10	U	10	2.2	10	03/25/17 05:42	
Vinyl Chloride	10	U	10	3.2	10	03/25/17 05:42	
cis-1,2-Dichloroethene	10	U	10	3.0	10	03/25/17 05:42	
trans-1,2-Dichloroethene	10	U	10	3.3	10	03/25/17 05:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	03/25/17 05:42	
Dibromofluoromethane	109	89 - 119	03/25/17 05:42	
Toluene-d8	110	87 - 121	03/25/17 05:42	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 13:50
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-28	**Units:**	ug/L
Lab Code:	R1702492-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/24/17 18:42	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/17 18:42	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/24/17 18:42	
Tetrachloroethene (PCE)	**0.41 J**	1.0	0.30	1	03/24/17 18:42	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/24/17 18:42	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/24/17 18:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/24/17 18:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/24/17 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/24/17 18:42	
Dibromofluoromethane	108	89 - 119	03/24/17 18:42	
Toluene-d8	110	87 - 121	03/24/17 18:42	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	DUP-032117	**Units:**	ug/L
Lab Code:	R1702492-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/27/17 12:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/27/17 12:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/27/17 12:53	
Tetrachloroethene (PCE)	**200**	1.0	0.30	1	03/27/17 12:53	
Trichloroethene (TCE)	**0.73 J**	1.0	0.22	1	03/27/17 12:53	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/27/17 12:53	
cis-1,2-Dichloroethene	**0.57 J**	1.0	0.30	1	03/27/17 12:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/27/17 12:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	03/27/17 12:53	
Dibromofluoromethane	105	89 - 119	03/27/17 12:53	
Toluene-d8	110	87 - 121	03/27/17 12:53	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	DUP-032117-02	**Units:**	ug/L
Lab Code:	R1702492-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10	U	10	3.6	10	03/25/17 06:42	
1,1-Dichloroethane (1,1-DCA)	10	U	10	2.0	10	03/25/17 06:42	
1,1-Dichloroethene (1,1-DCE)	10	U	10	5.7	10	03/25/17 06:42	
Tetrachloroethene (PCE)	**2800**	**D**	20	6.0	20	03/27/17 14:23	
Trichloroethene (TCE)	10	U	10	2.2	10	03/25/17 06:42	
Vinyl Chloride	10	U	10	3.2	10	03/25/17 06:42	
cis-1,2-Dichloroethene	10	U	10	3.0	10	03/25/17 06:42	
trans-1,2-Dichloroethene	10	U	10	3.3	10	03/25/17 06:42	

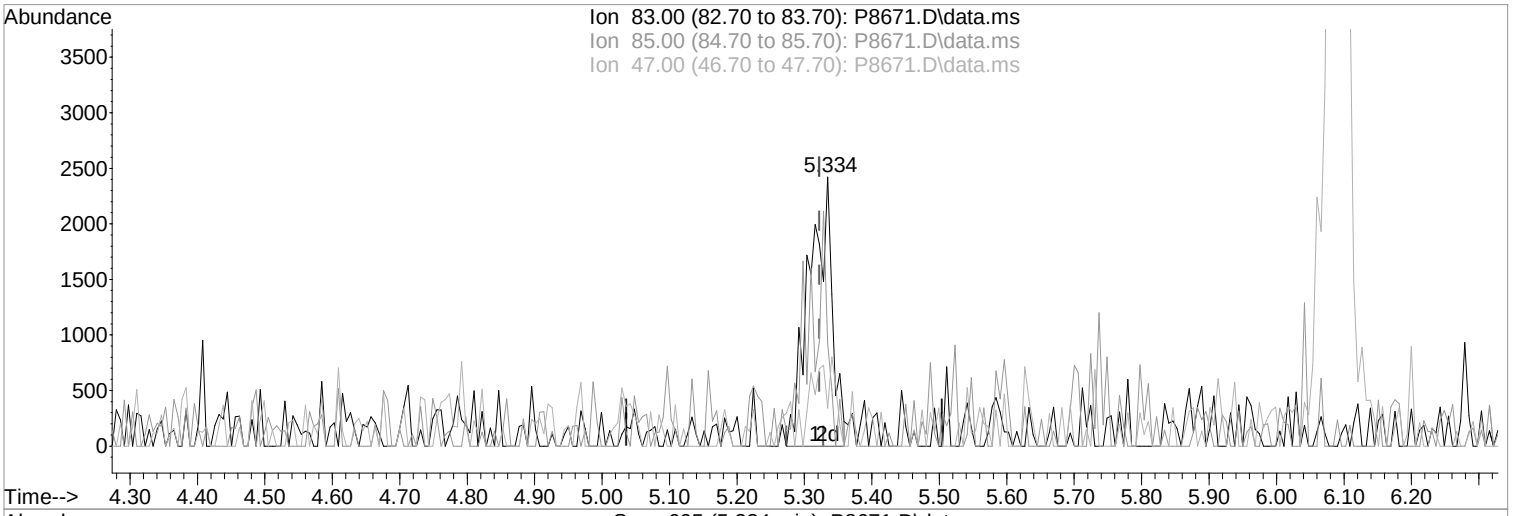
Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/25/17 06:42	
Dibromofluoromethane	107	89 - 119	03/25/17 06:42	
Toluene-d8	112	87 - 121	03/25/17 06:42	

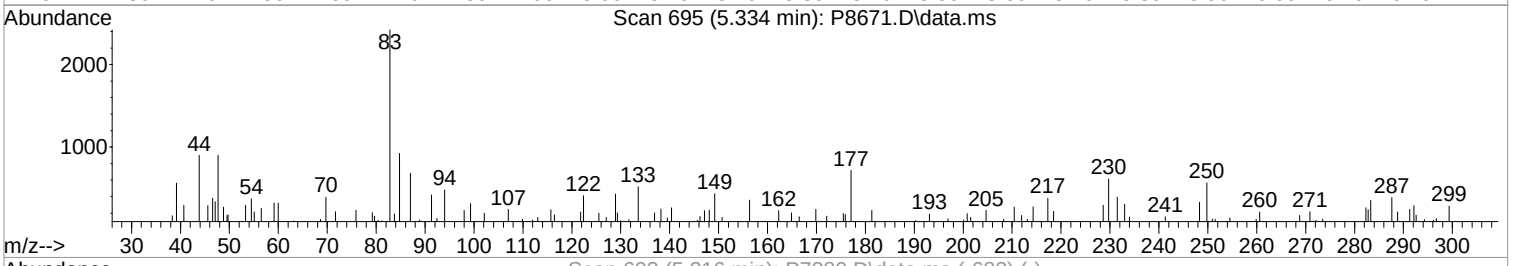
1st 03/27/17
2nd 03/28/17

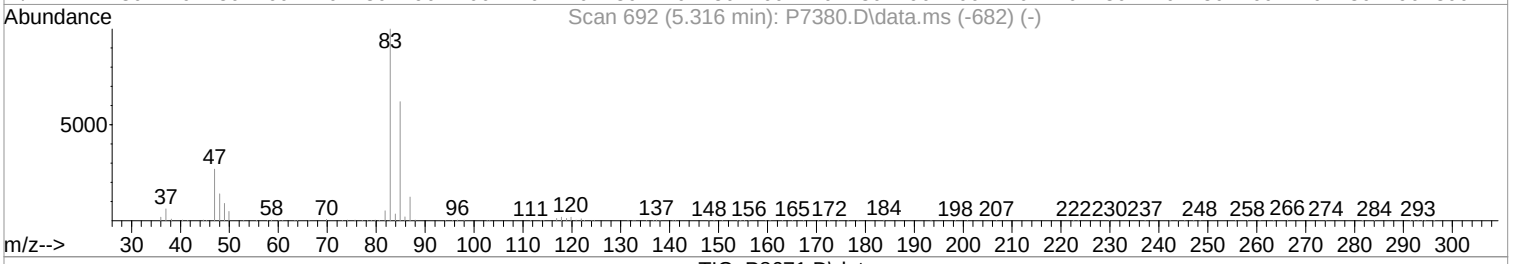
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8671.D
Acq On : 24 Mar 2017 6:12 pm
Operator : K.Ruest
Sample : R1702492-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 27 09:03:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8671.D\data.ms

(40) Chloroform (P)

5.334min (+0.012) 0.55 ppb m

response 5778

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	38.17#
47.00	26.90	37.17
0.00	0.00	0.00

Manual Integration:

After

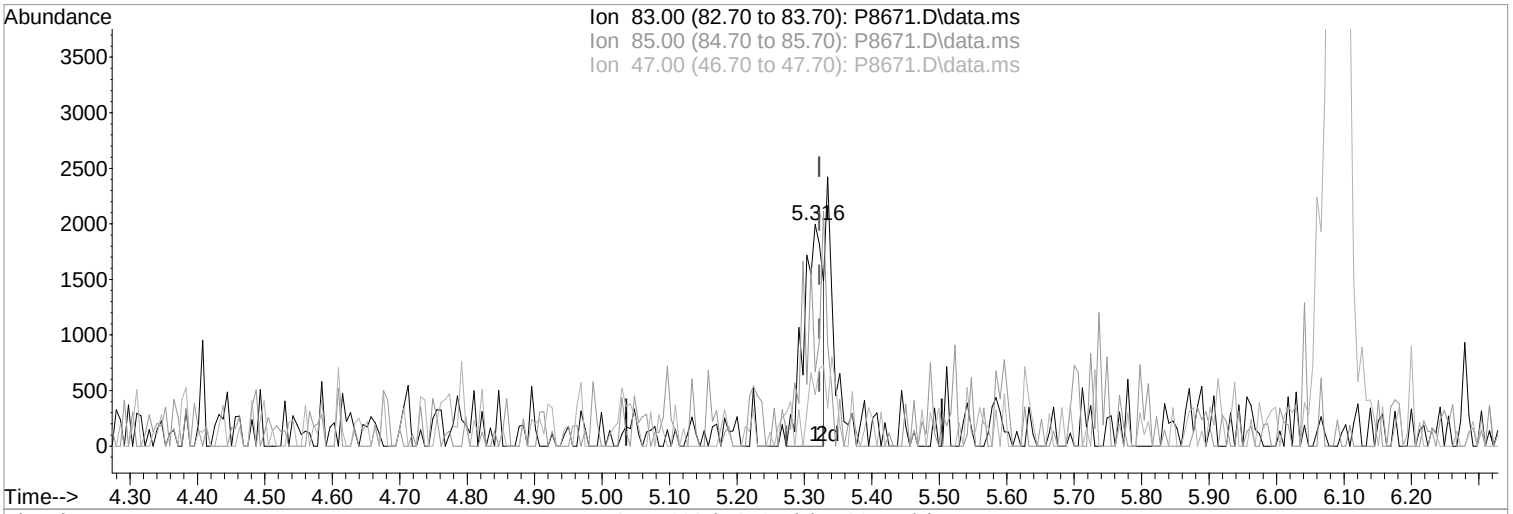
Split Peak

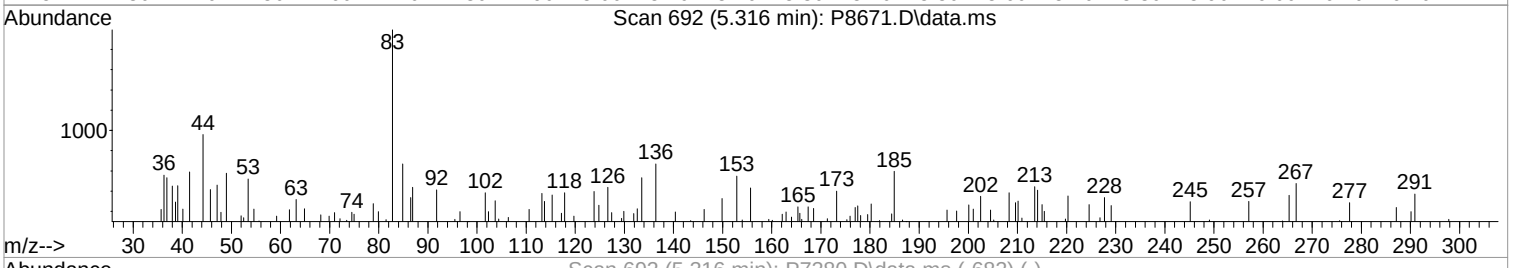
03/27/17

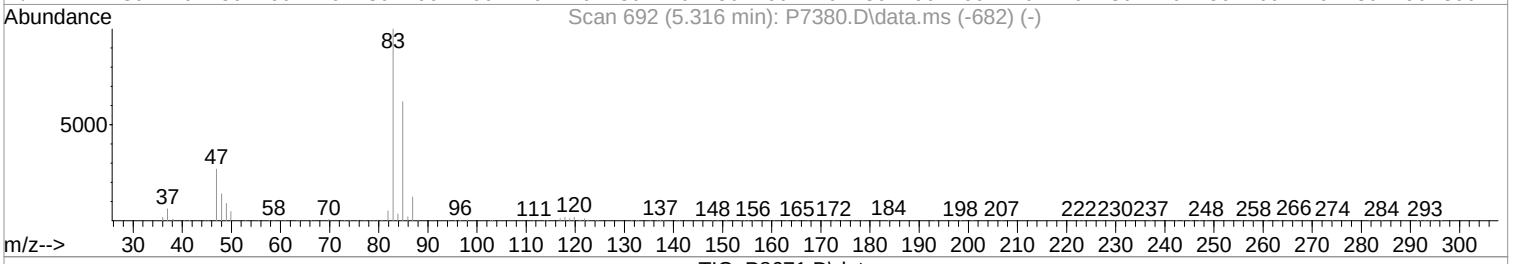
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8671.D
Acq On : 24 Mar 2017 6:12 pm
Operator : K.Ruest
Sample : R1702492-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 27 09:03:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8671.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.37 ppb

response 3908

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	33.53#
47.00	26.90	23.11
0.00	0.00	0.00

Manual Integration:

Before

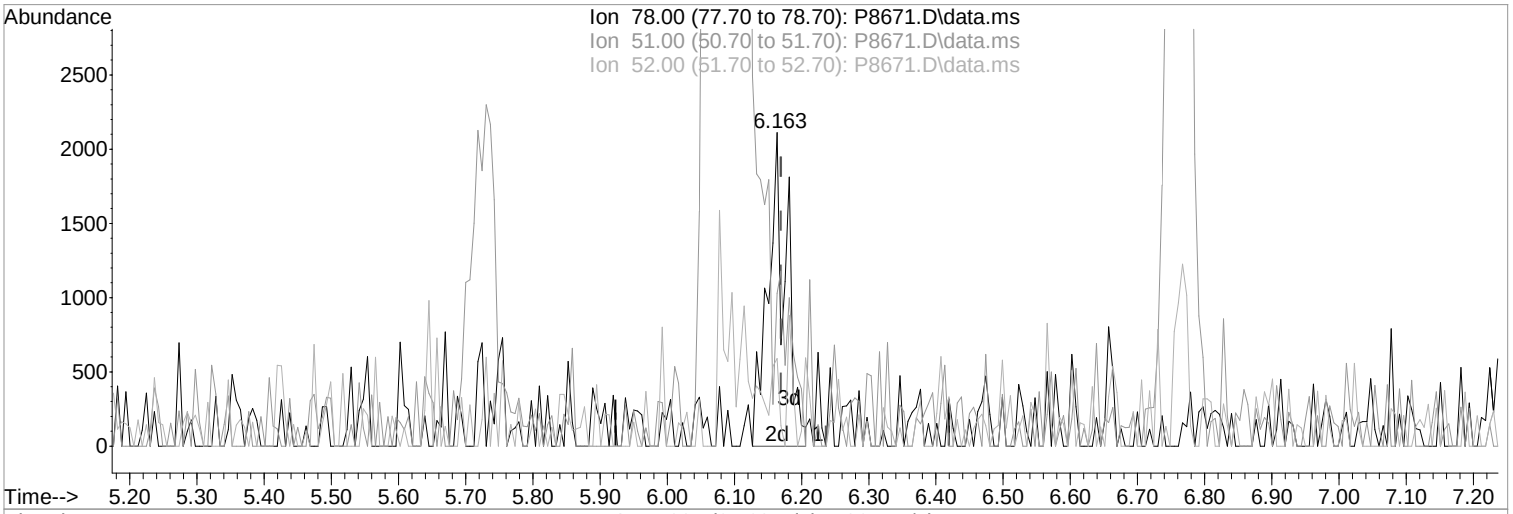
03/27/17

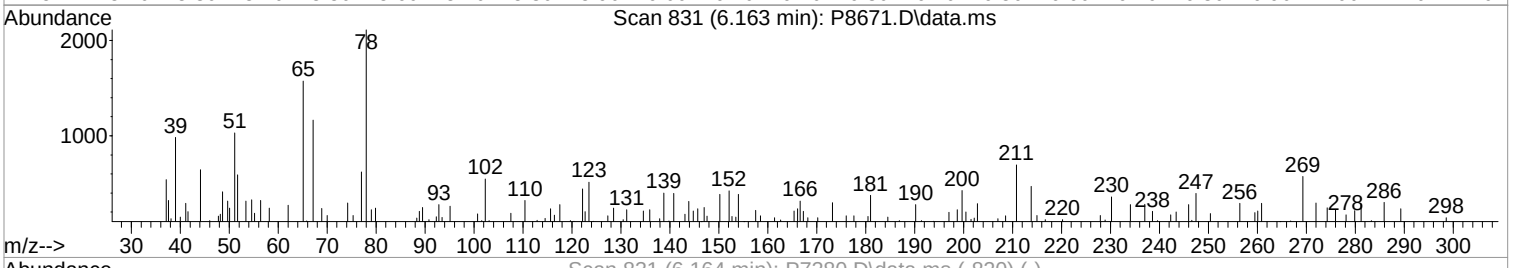
1st 03/27/17
2nd 03/28/17

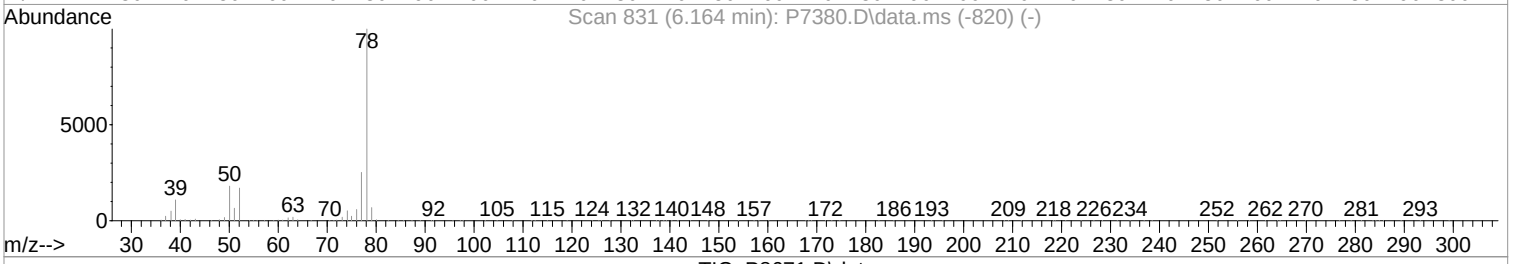
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8671.D
Acq On : 24 Mar 2017 6:12 pm
Operator : K.Ruest
Sample : R1702492-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 27 09:03:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8671.D\data.ms

(49) Benzene (P)

6.163min (-0.006) 0.18 ppb m

response 4036

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	48.77#
52.00	16.90	27.94
0.00	0.00	0.00

Manual Integration:

After

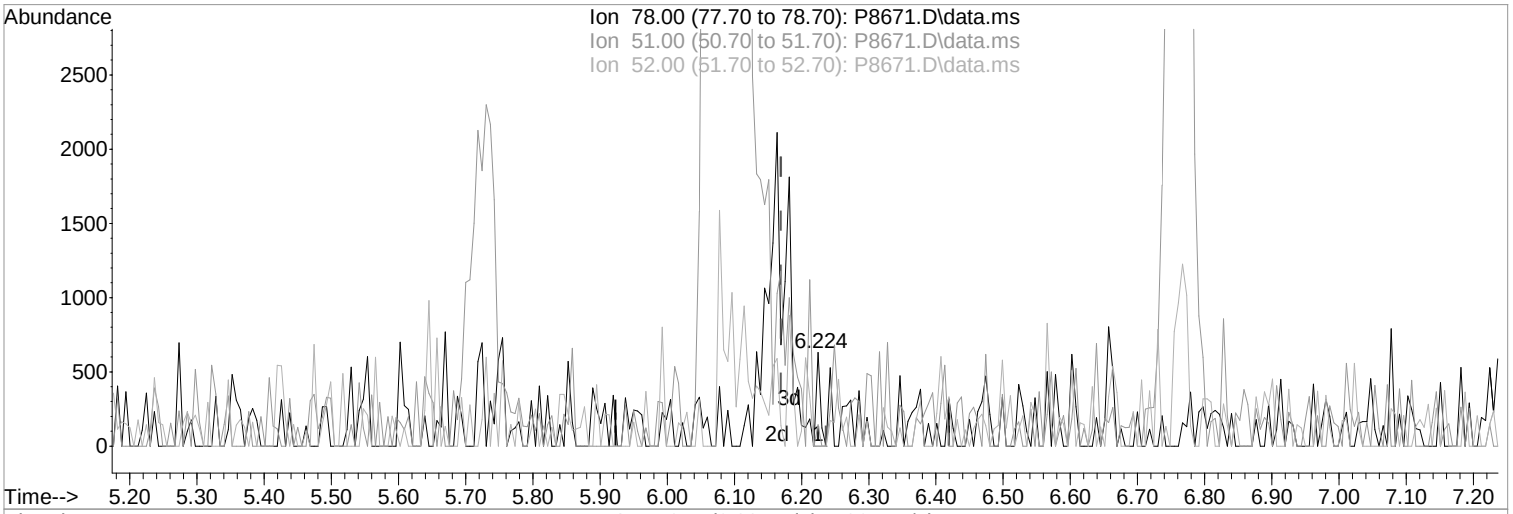
Peak not found.

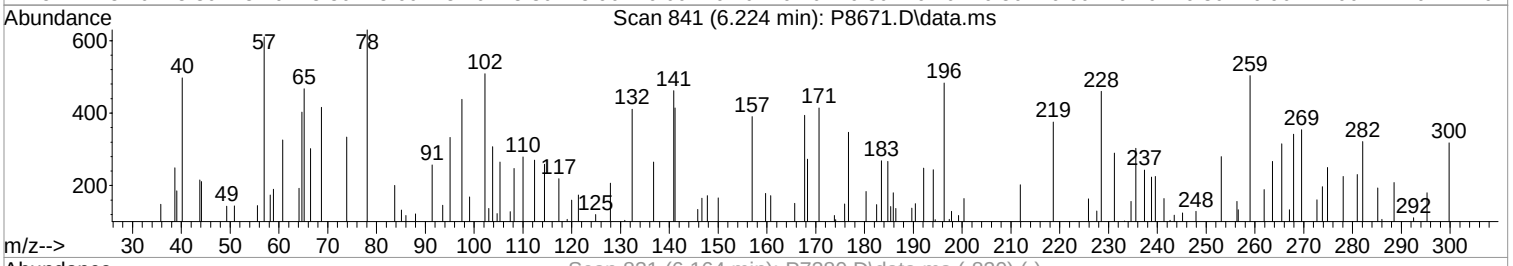
03/27/17

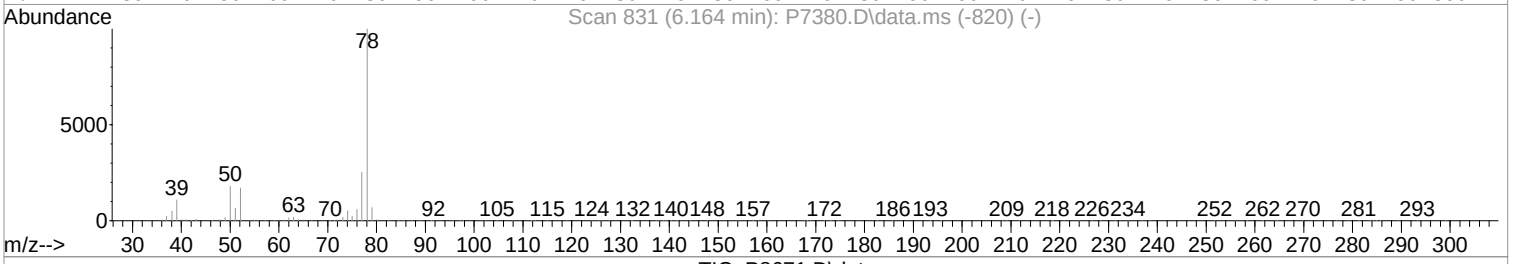
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8671.D
Acq On : 24 Mar 2017 6:12 pm
Operator : K.Ruest
Sample : R1702492-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 27 09:03:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8671.D\data.ms

(49) Benzene (P)

6.224min (+0.055) 0.01 ppb

response 275

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	22.86
52.00	16.90	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8671.D
Acq On : 24 Mar 2017 6:12 pm
Operator : K.Ruest
Sample : R1702492-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 27 11:18:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

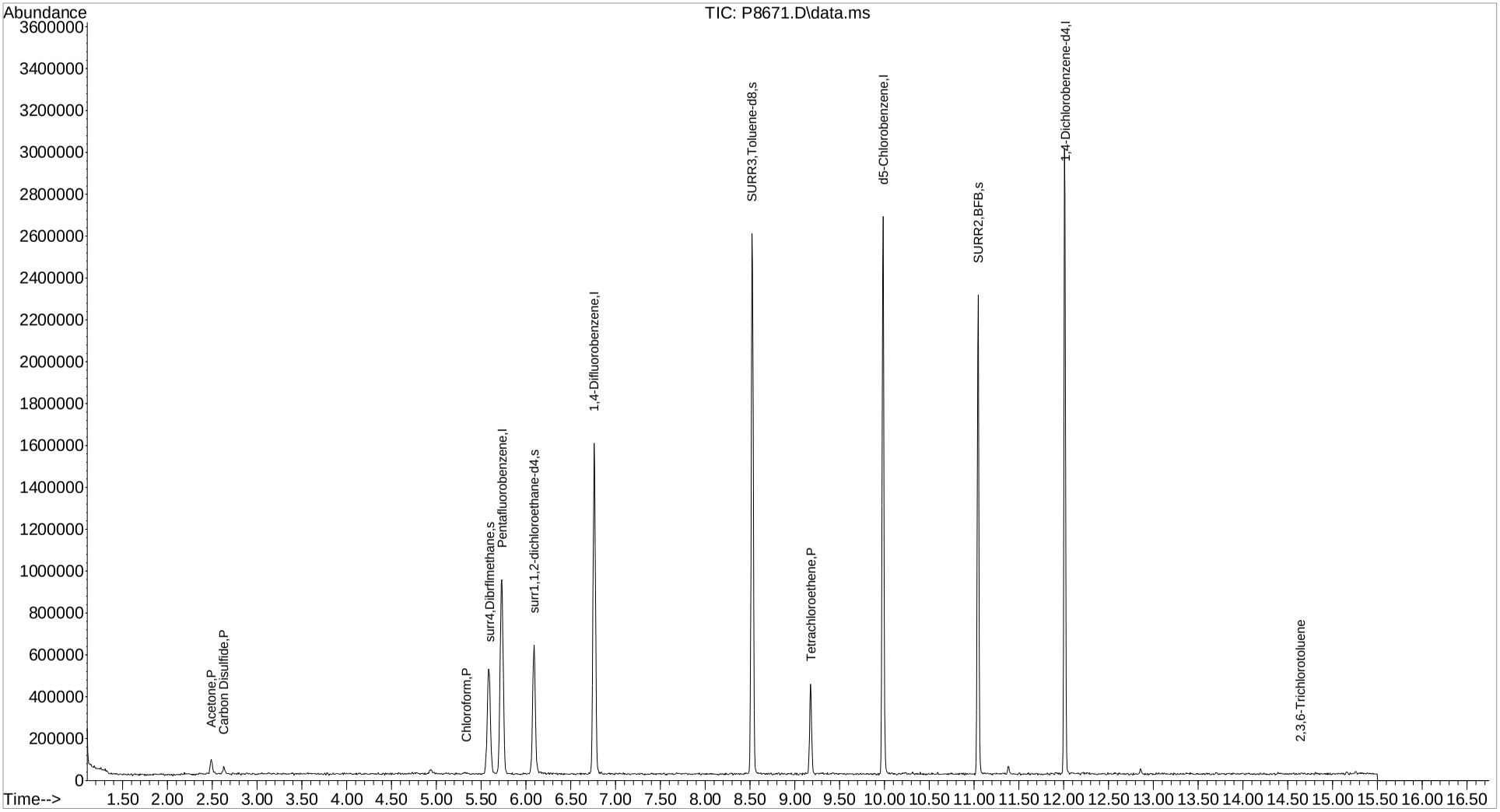
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	789923	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1291368	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1168187	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	565263	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	367512	52.74	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.48%				
48) surr1,1,2-dichloroetha...	6.090	65	459143	59.35	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 118.70%				
65) SURR3,Toluene-d8	8.523	98	1552778	53.90	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.80%				
70) SURR2,BFB	11.047	95	556615	49.86	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.72%				
Target Compounds							Qvalue
15) Acetone	2.487	43	81576	70.31	ppb		96
18) Carbon Disulfide	2.627	76	34064	2.00	ppb		98
40) Chloroform	5.334	83	5778m	0.55	ppb		
72) Tetrachloroethene	9.181	164	86530	17.08	ppb	#	88
120) 2,3,6-Trichlorotoluene	14.643	159	918	0.23	ppb	#	79

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

Quantitation Report (QT Reviewed)

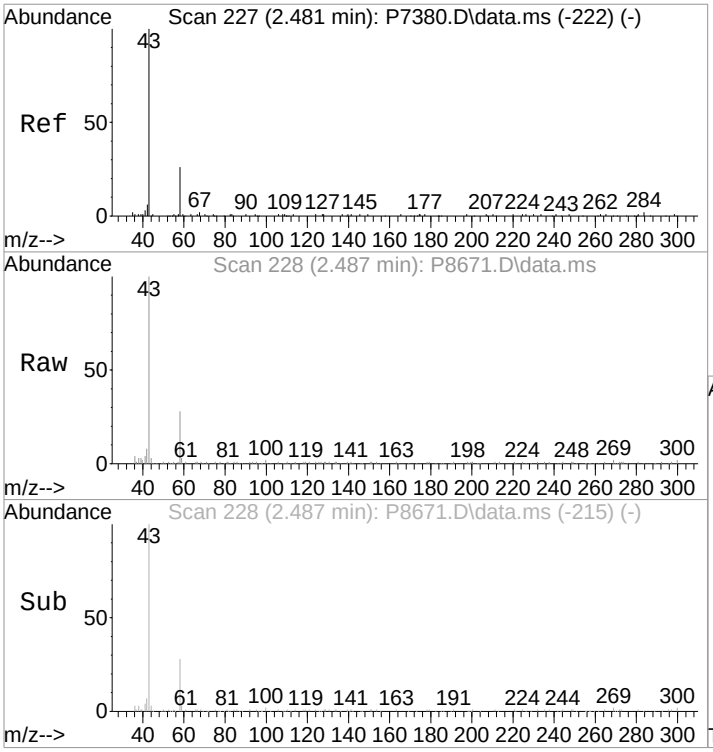
Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8671.D
Acq On : 24 Mar 2017 6:12 pm
Operator : K.Ruest
Sample : R1702492-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 27 11:18:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



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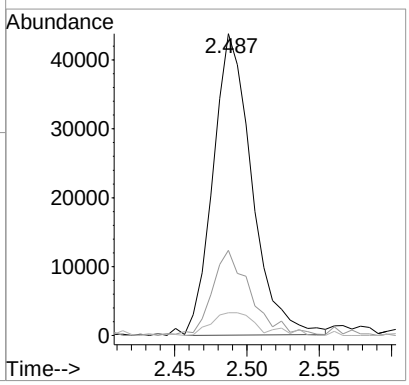
1st KR 03/27/17
2nd BA 03/28/17

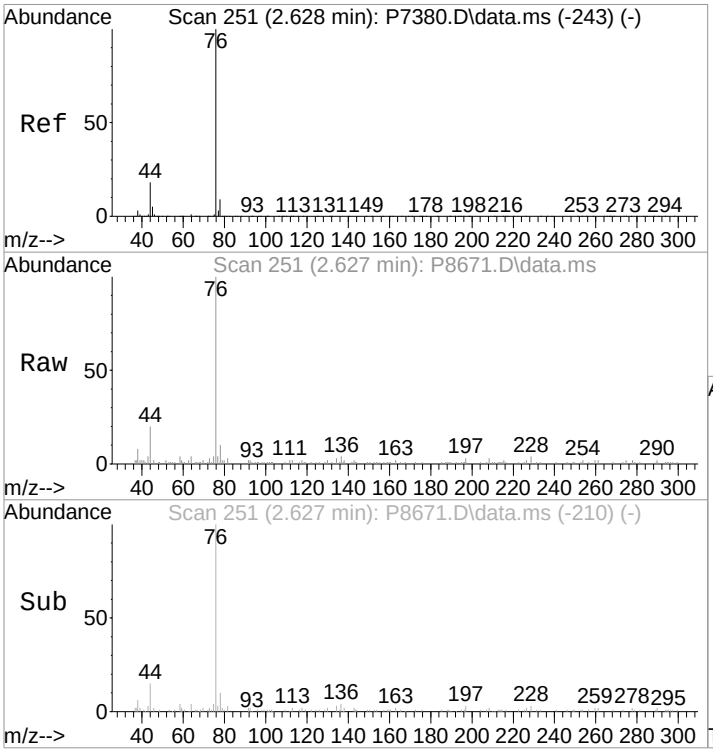


#15
Acetone
Concen: 70.31 ppb
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P8671.D
Acq: 24 Mar 2017 6:12 pm

Tgt Ion: 43 Resp: 81576

Ion	Ratio	Lower	Upper
43	100		
58	28.2	6.2	46.2
42	7.6	0.0	26.9

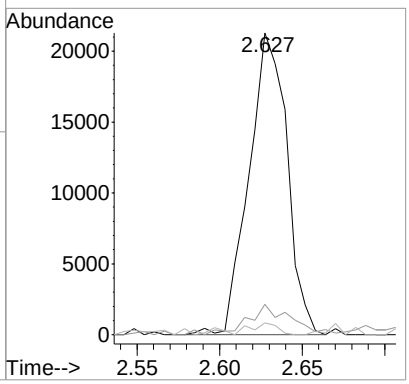


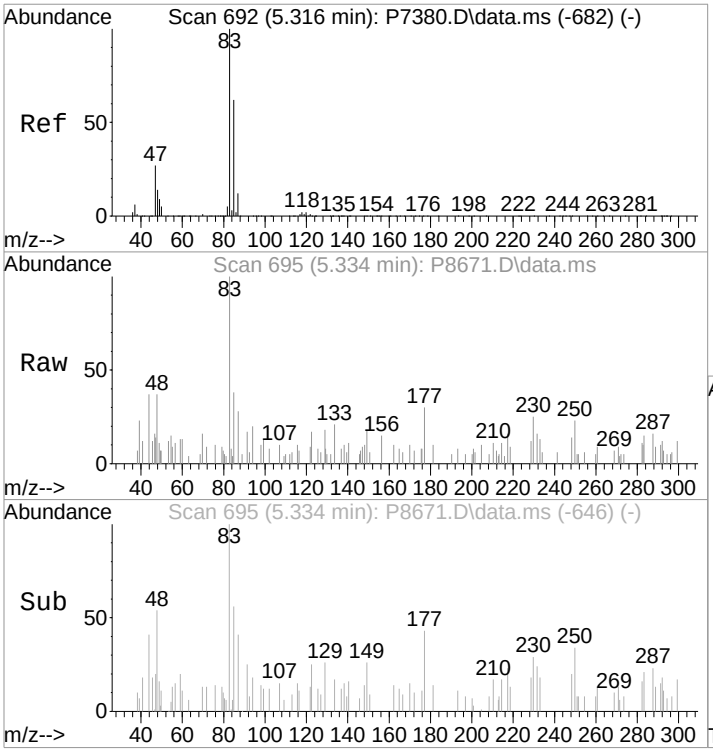


#18
Carbon Disulfide
Concen: 2.00 ppb
RT: 2.627 min Scan# 251
Delta R.T. -0.006 min
Lab File: P8671.D
Acq: 24 Mar 2017 6:12 pm

Tgt Ion: 76 Resp: 34064

Ion	Ratio	Lower	Upper
76	100		
78	10.0	0.0	29.5
77	4.0	0.0	22.7

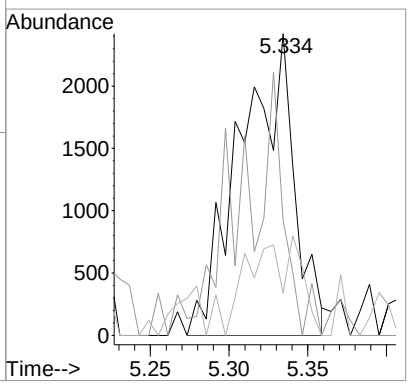


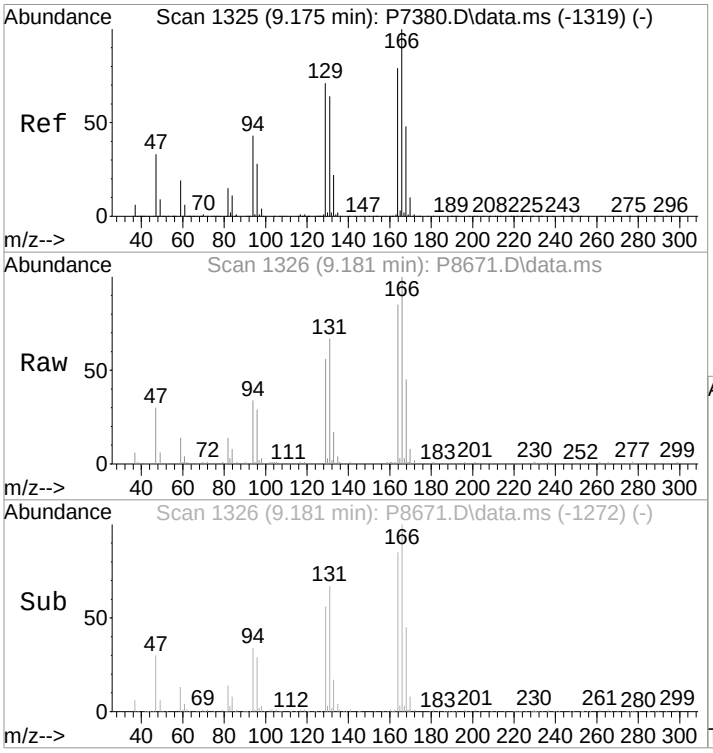


#40
Chloroform
Concen: 0.55 ppb m
RT: 5.334 min Scan# 695
Delta R.T. 0.012 min
Lab File: P8671.D
Acq: 24 Mar 2017 6:12 pm

Tgt Ion: 83 Resp: 5778

Ion	Ratio	Lower	Upper
83	100		
85	38.2	42.3	82.3#
47	37.2	6.9	46.9

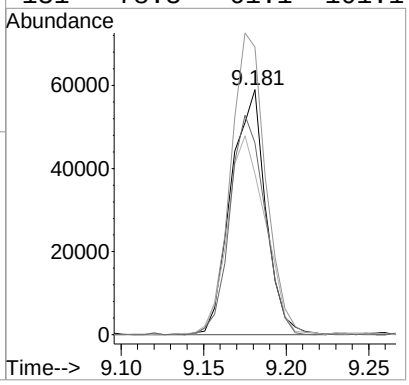


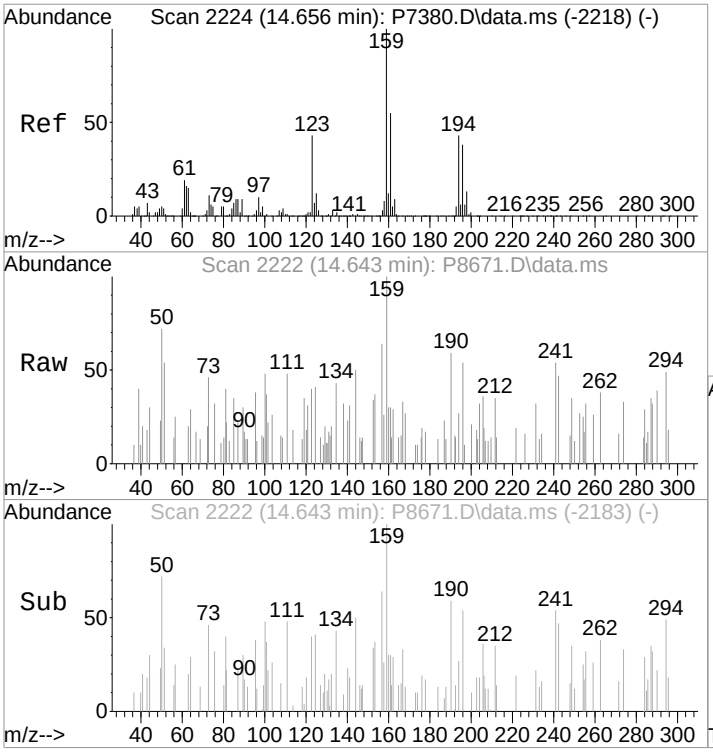


#72
Tetrachloroethene
Concen: 17.08 ppb
RT: 9.181 min Scan# 1326
Delta R.T. 0.000 min
Lab File: P8671.D
Acq: 24 Mar 2017 6:12 pm

Tgt Ion:164 Resp: 86530

Ion	Ratio	Lower	Upper
164	100		
166	117.4	106.8	146.8
129	65.7	69.7	109.7#
131	78.3	61.1	101.1

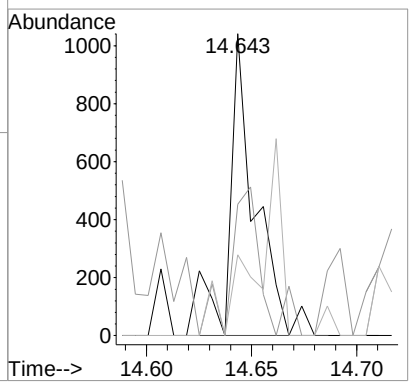




#120
2,3,6-Trichlorotoluene
Concen: 0.23 ppb
RT: 14.643 min Scan# 2222
Delta R.T. -0.012 min
Lab File: P8671.D
Acq: 24 Mar 2017 6:12 pm

Tgt Ion:159 Resp: 918

Ion	Ratio	Lower	Upper
159	100		
161	43.5	44.3	66.5#
194	26.8	34.8	52.2#

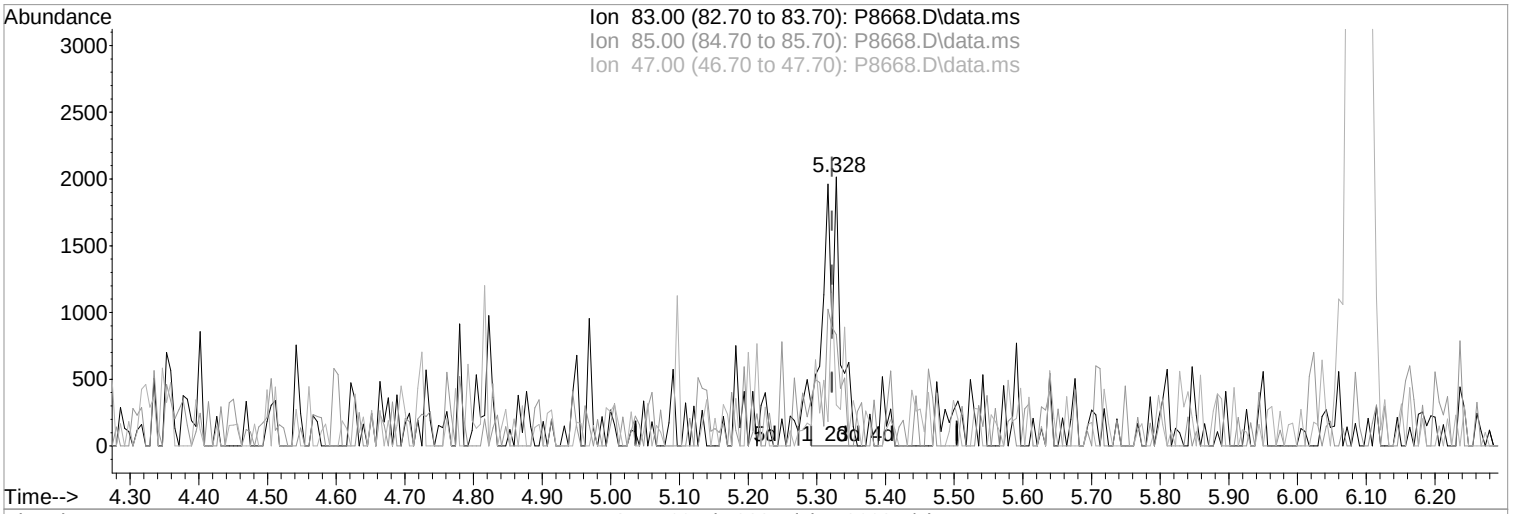


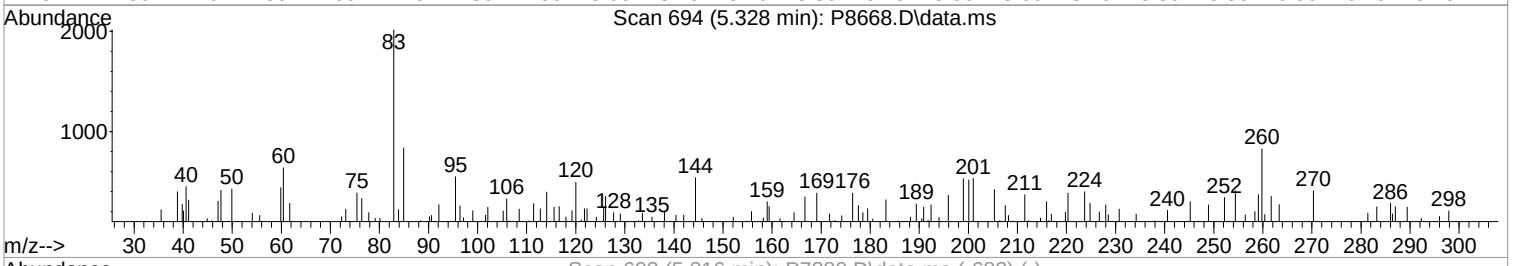
1st 03/24/17
2nd 03/28/17

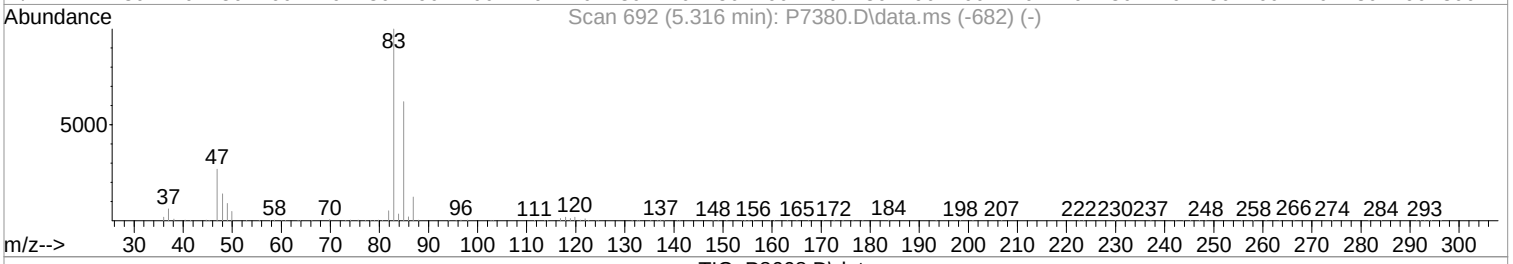
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8668.D
Acq On : 24 Mar 2017 4:43 pm
Operator : K.Ruest
Sample : R1702492-002|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 24 17:00:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8668.D\data.ms

(40) Chloroform (P)

5.328min (+0.006) 0.31 ppb m

response 3294

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	41.44#
47.00	26.90	20.55
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

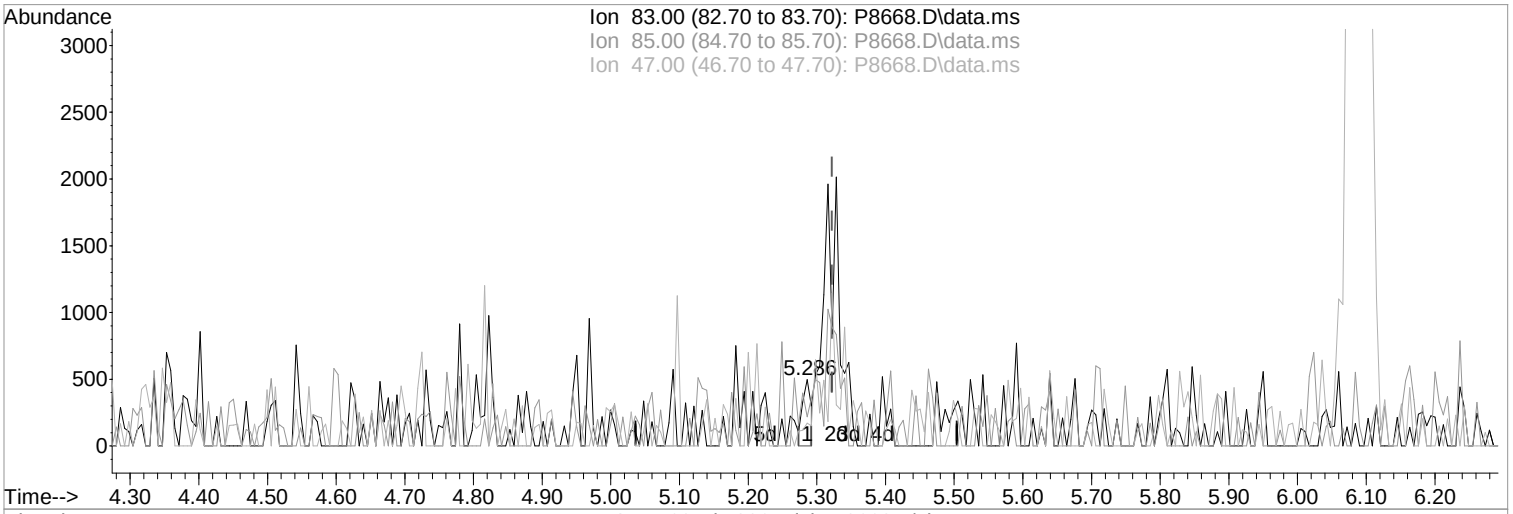
03/24/17

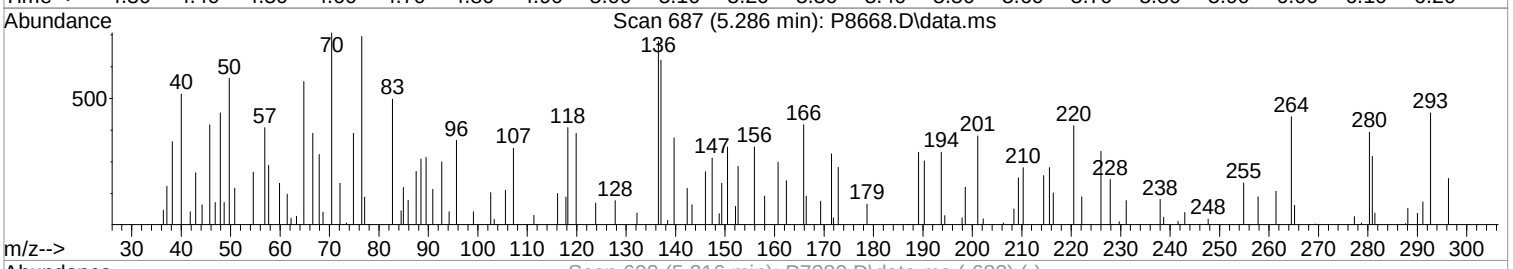
1st 03/24/17
2nd 03/28/17

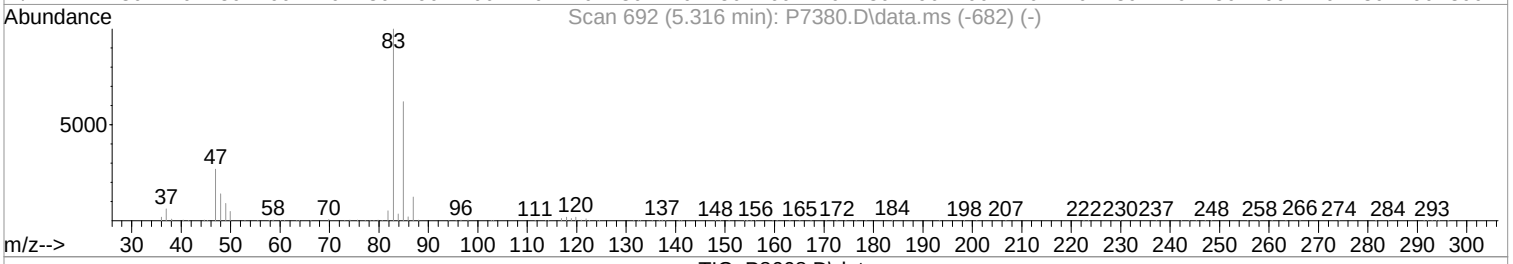
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8668.D
Acq On : 24 Mar 2017 4:43 pm
Operator : K.Ruest
Sample : R1702492-002|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 24 17:00:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8668.D\data.ms

(40) Chloroform (P)

5.286min (-0.036) 0.04 ppb

response 411

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	43.98
47.00	26.90	34.54
0.00	0.00	0.00

Manual Integration:

Before

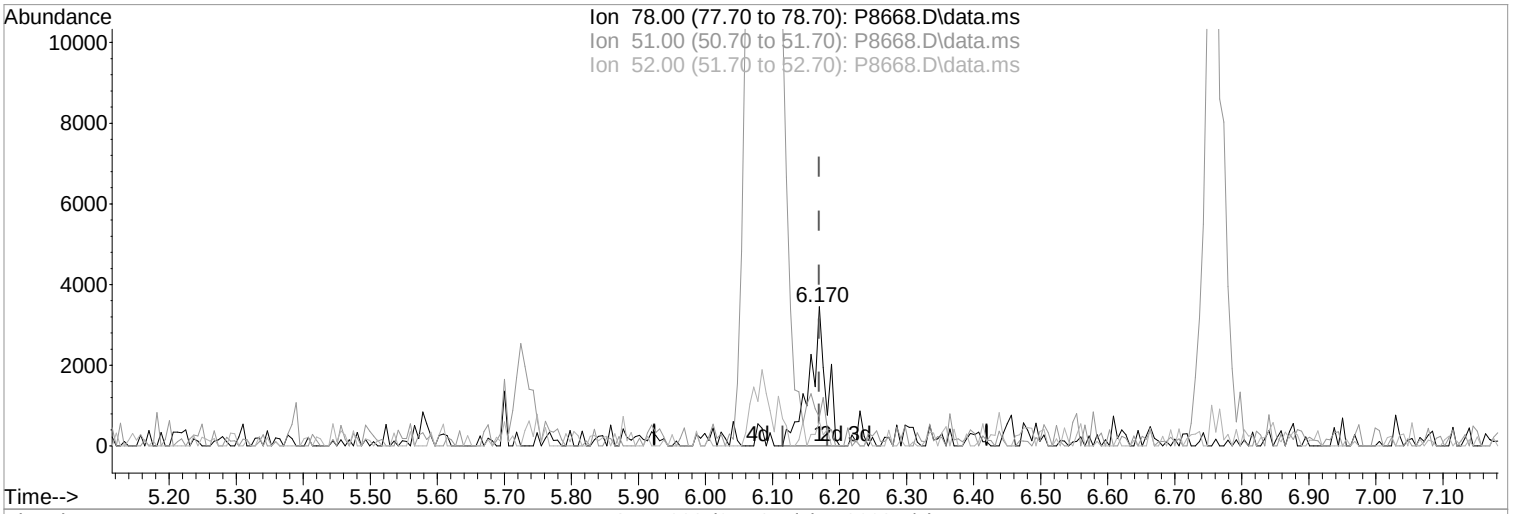
03/24/17

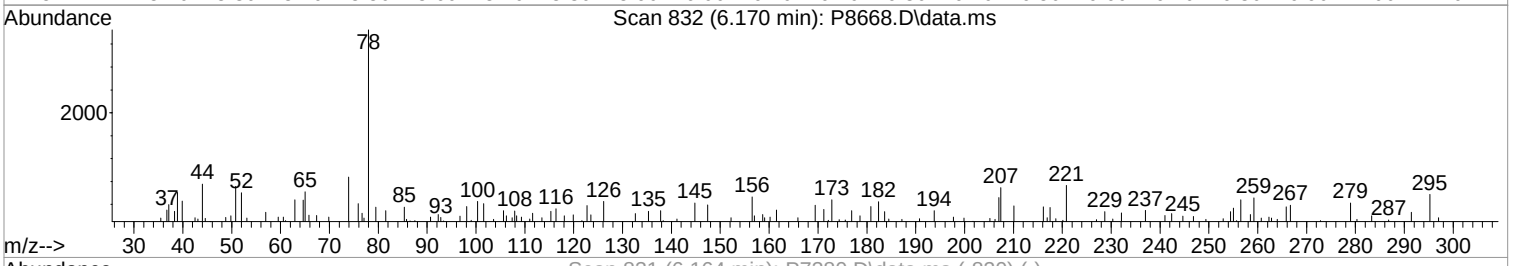
1st 03/24/17
2nd 03/28/17

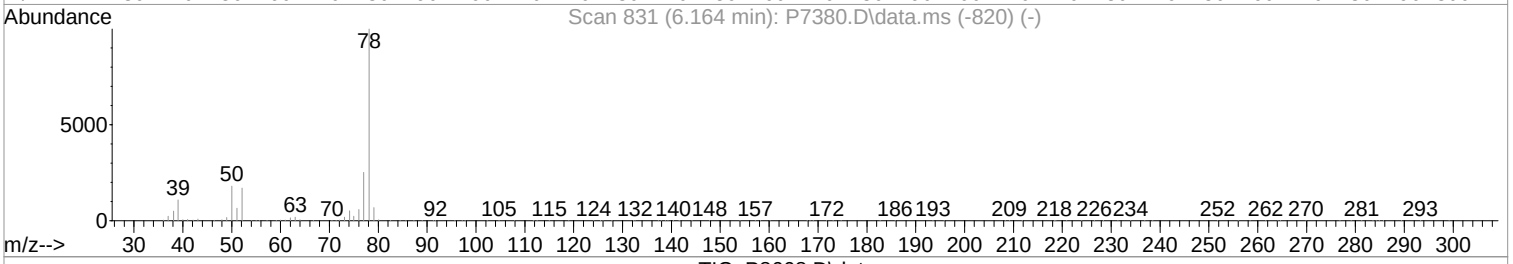
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8668.D
Acq On : 24 Mar 2017 4:43 pm
Operator : K.Ruest
Sample : R1702492-002|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 24 17:00:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8668.D\data.ms

(49) Benzene (P)

6.170min (+0.000) 0.26 ppb m

response 5976

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	20.69
52.00	16.90	17.50
0.00	0.00	0.00

Manual Integration:

After

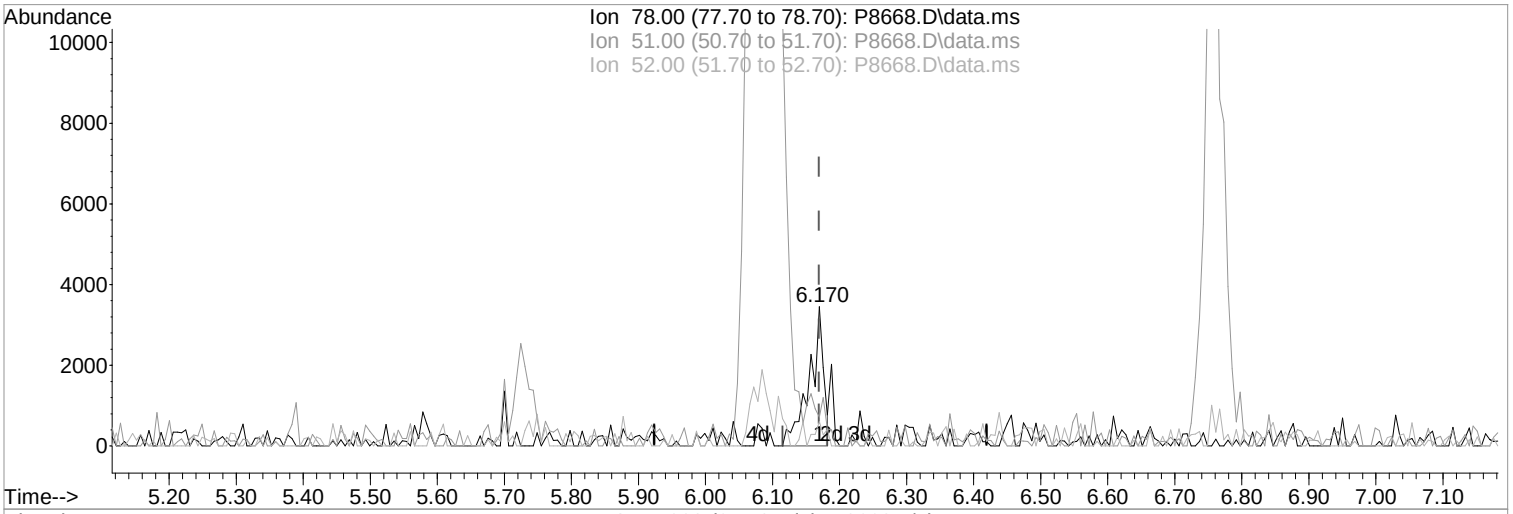
Split Peak

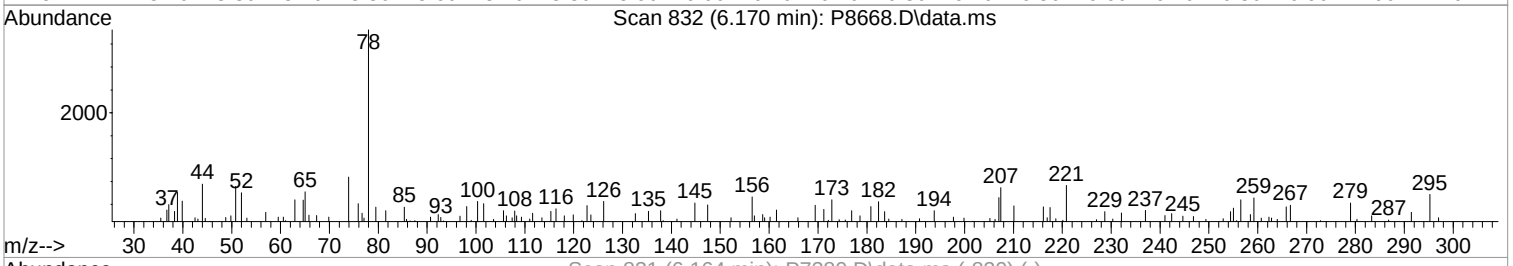
03/24/17

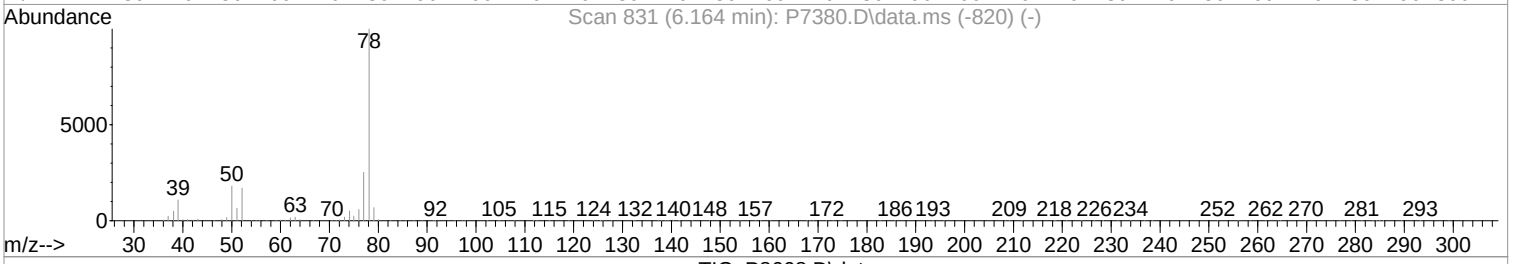
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8668.D
Acq On : 24 Mar 2017 4:43 pm
Operator : K.Ruest
Sample : R1702492-002|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 24 17:00:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8668.D\data.ms

(49) Benzene (P)

6.170min (+0.000) 0.23 ppb

response 5173

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	20.69
52.00	16.90	17.50
0.00	0.00	0.00

Manual Integration:

Before

03/24/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8668.D
Acq On : 24 Mar 2017 4:43 pm
Operator : K.Ruest
Sample : R1702492-002|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

foamy sample

Quant Time: Mar 24 17:04:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

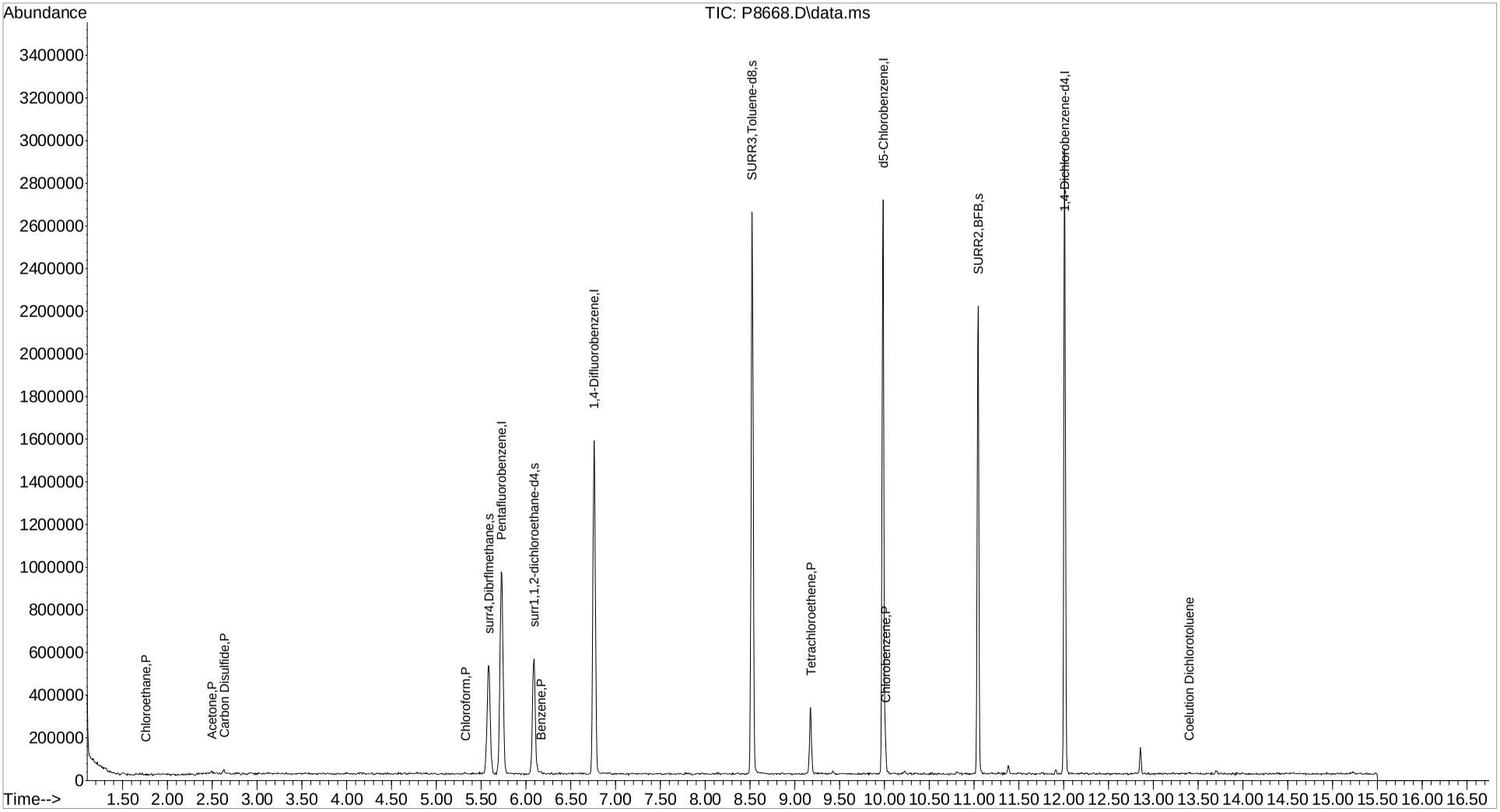
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.725	168	795066	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1288883	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1182824	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	575521	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	365952	52.62	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.24%				
48) surr1,1,2-dichloroetha...	6.090	65	428283	55.46	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 110.92%				
65) SURR3,Toluene-d8	8.523	98	1573864	54.73	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.46%				
70) SURR2,BFB	11.047	95	552138	49.55	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.10%				
Target Compounds							Qvalue
6) Chloroethane	1.762	64	1032	0.25	ppb		93
15) Acetone	2.494	43	13357	11.44	ppb		88
18) Carbon Disulfide	2.634	76	21621	1.26	ppb		92
40) Chloroform	5.328	83	3294m	0.31	ppb		
49) Benzene	6.170	78	5976m	0.26	ppb		
72) Tetrachloroethene	9.175	164	59471	11.59	ppb		94
78) Chlorobenzene	10.010	112	48150	2.90	ppb		88
114) Coelution Dichlorotoluene	13.394	125	2177	0.21	ppb	#	74

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

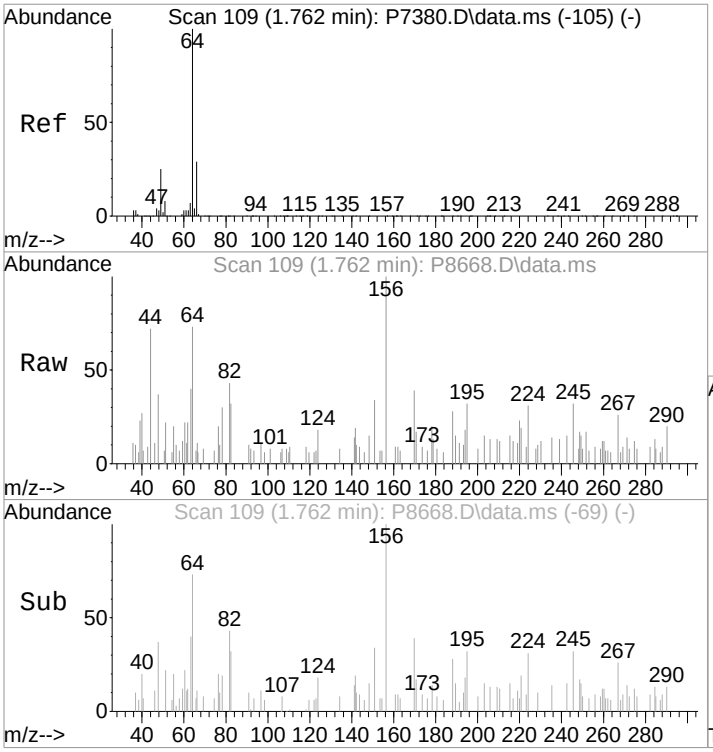
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8668.D
Acq On : 24 Mar 2017 4:43 pm
Operator : K.Ruest
Sample : R1702492-002|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 24 17:04:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



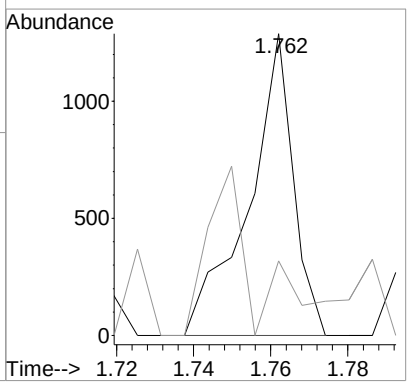
1st KR 03/24/17
2nd BA 03/28/17

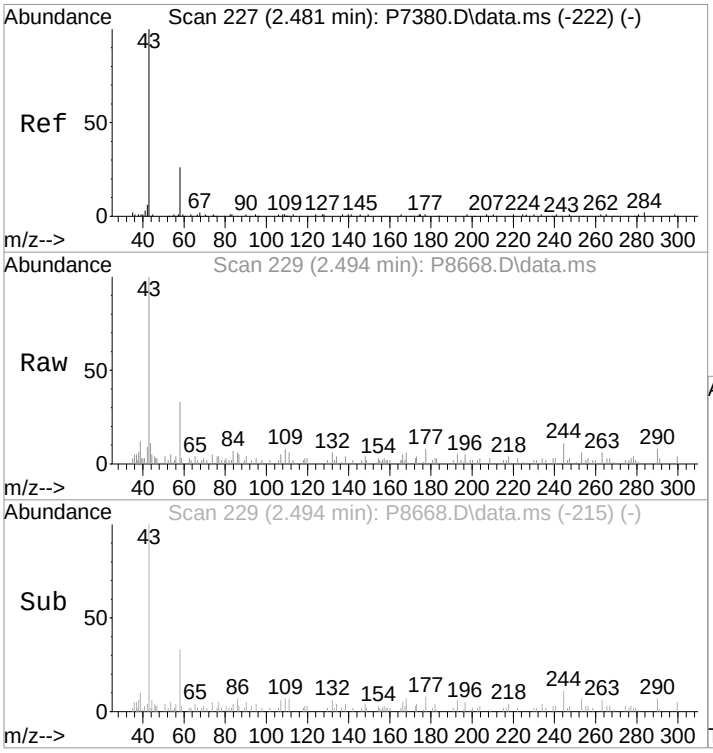


#6
Chloroethane
Concen: 0.25 ppb
RT: 1.762 min Scan# 109
Delta R.T. 0.000 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion: 64 Resp: 1032

Ion	Ratio	Lower	Upper
64	100		
66	33.2	9.4	49.4

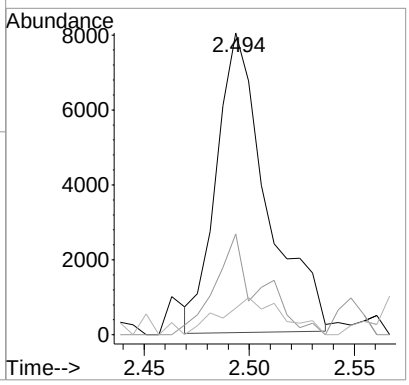


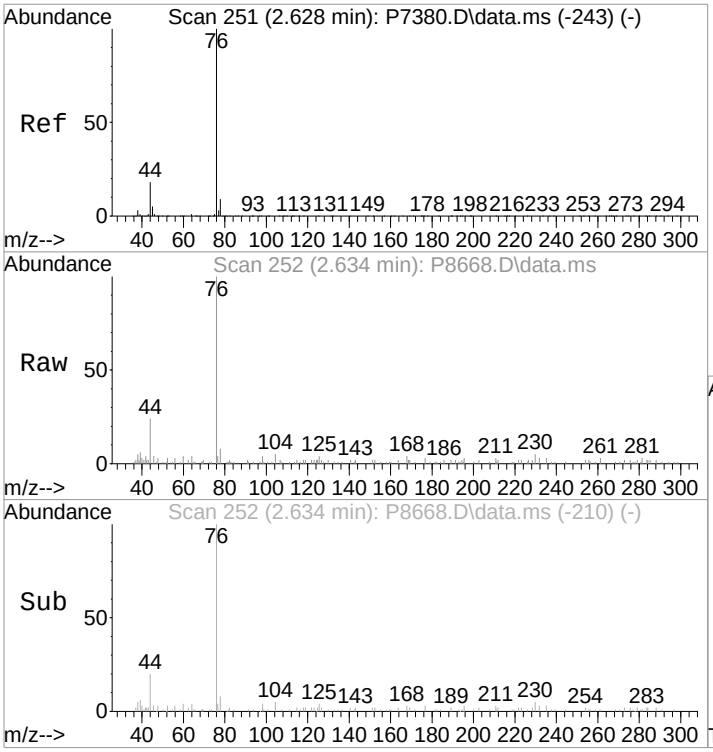


#15
Acetone
Concen: 11.44 ppb
RT: 2.494 min Scan# 229
Delta R.T. 0.012 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion: 43 Resp: 13357

Ion	Ratio	Lower	Upper
43	100		
58	33.4	6.2	46.2
42	8.8	0.0	26.9

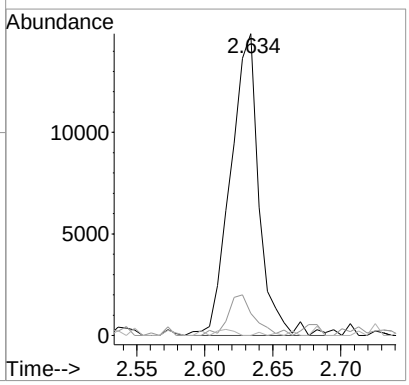


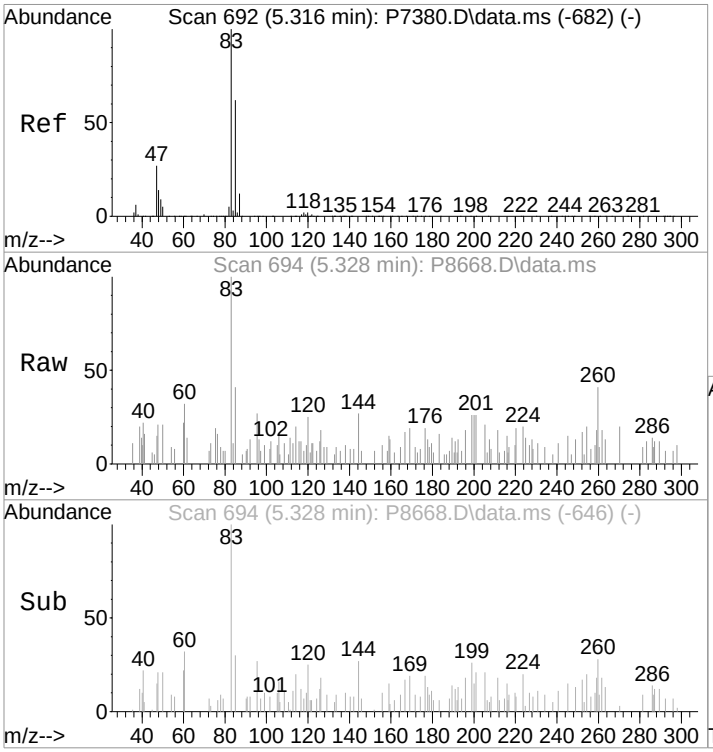


#18
Carbon Disulfide
Concen: 1.26 ppb
RT: 2.634 min Scan# 252
Delta R.T. 0.000 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion: 76 Resp: 21621

Ion	Ratio	Lower	Upper
76	100		
78	7.3	0.0	29.5
77	7.3	0.0	22.7

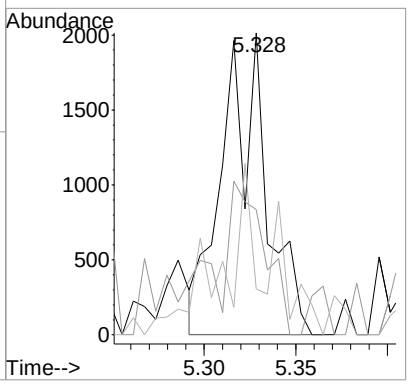


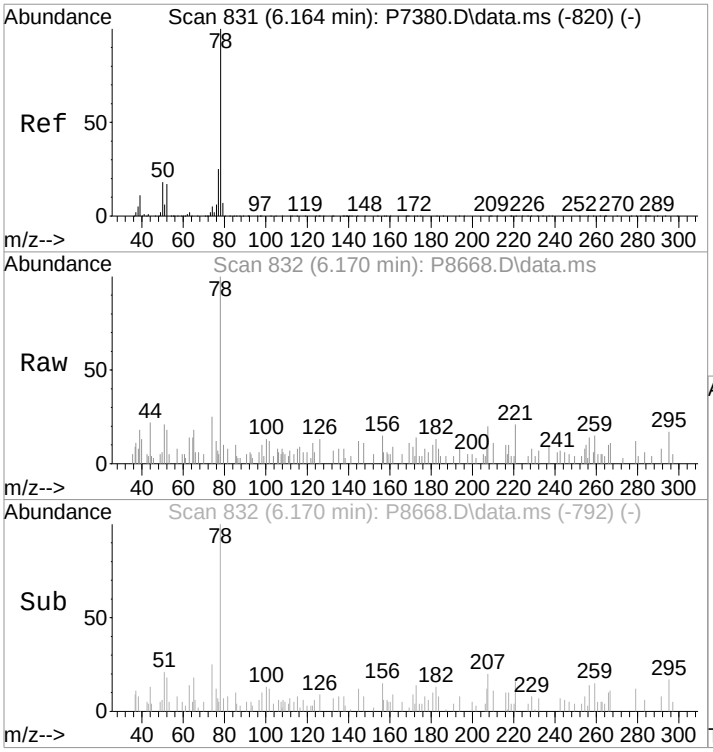


#40
Chloroform
Concen: 0.31 ppb m
RT: 5.328 min Scan# 694
Delta R.T. 0.006 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion: 83 Resp: 3294

Ion	Ratio	Lower	Upper
83	100		
85	41.4	42.3	82.3#
47	20.5	6.9	46.9

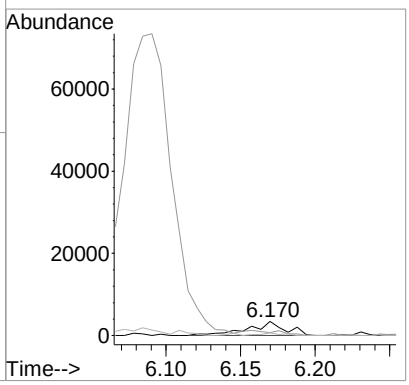


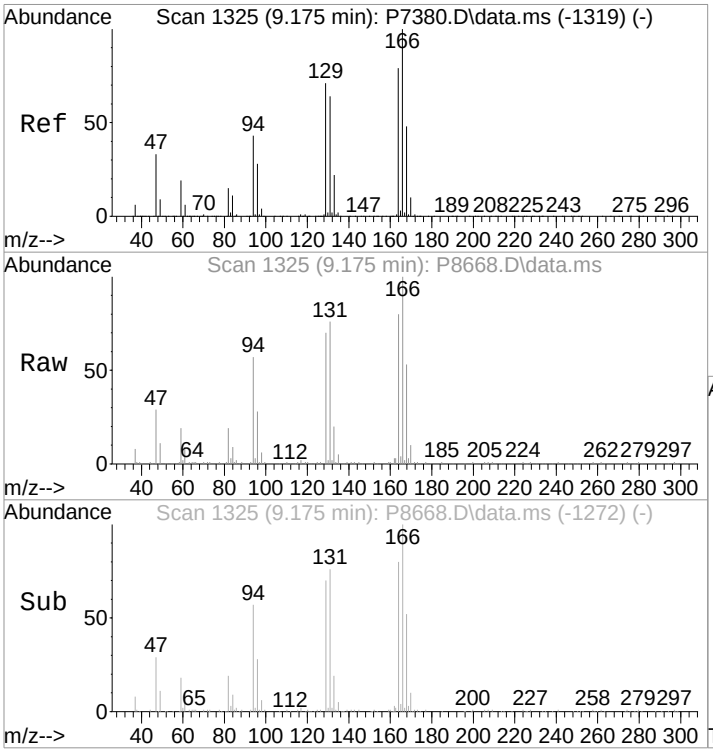


#49
Benzene
Concen: 0.26 ppb m
RT: 6.170 min Scan# 832
Delta R.T. 0.000 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion: 78 Resp: 5976

Ion	Ratio	Lower	Upper
78	100		
51	20.7	0.0	38.8
52	17.5	0.0	36.9

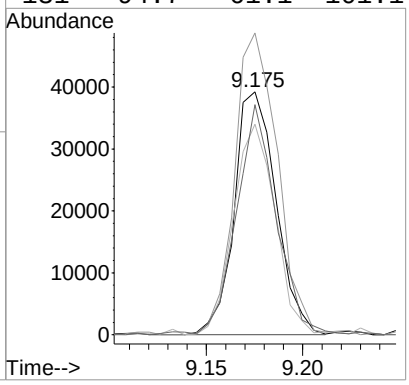


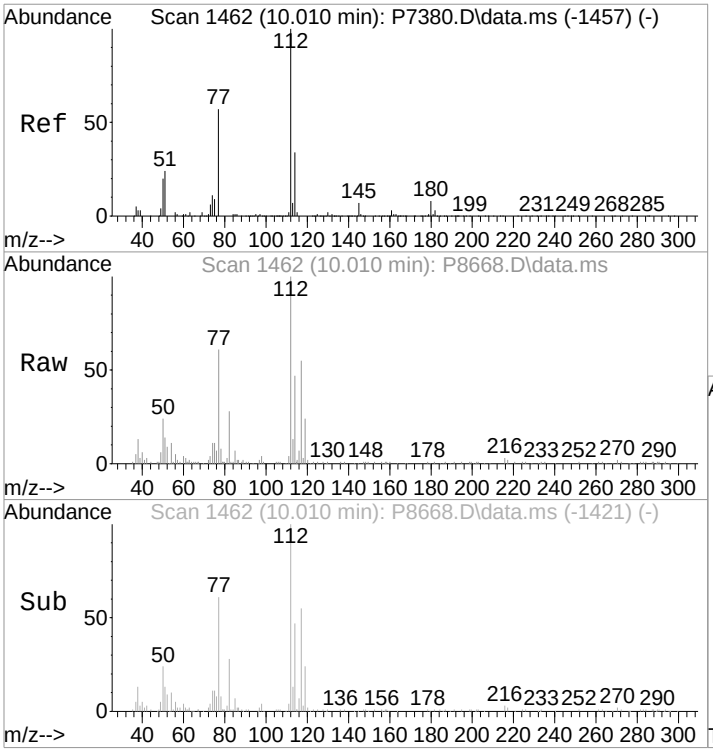


#72
Tetrachloroethene
Concen: 11.59 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion:164 Resp: 59471

Ion	Ratio	Lower	Upper
164	100		
166	124.3	106.8	146.8
129	86.7	69.7	109.7
131	94.7	61.1	101.1

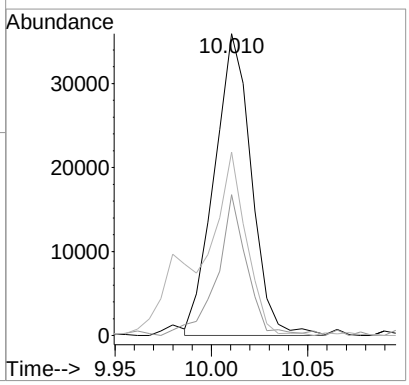


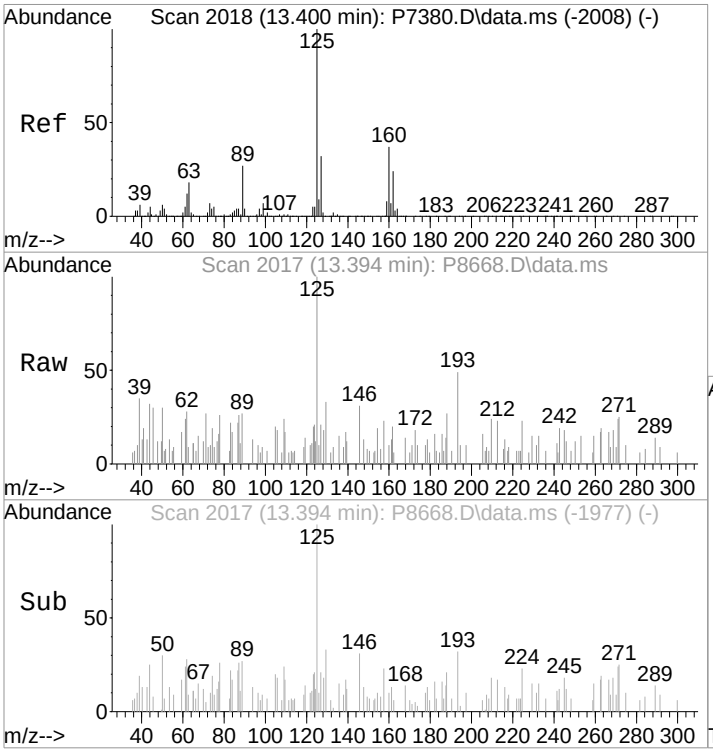


#78
Chlorobenzene
Concen: 2.90 ppb
RT: 10.010 min Scan# 1462
Delta R.T. 0.000 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion:112 Resp: 48150

Ion	Ratio	Lower	Upper
112	100		
114	47.8	13.9	53.9
77	60.8	37.7	77.7

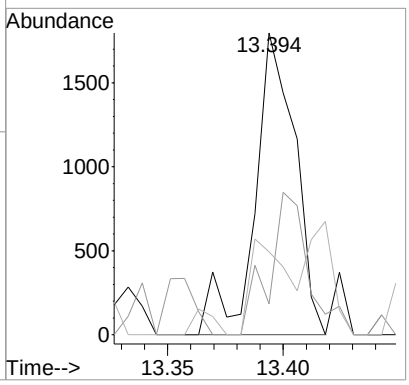




#114
Coelution Dichlorotoluene
Concen: 0.21 ppb
RT: 13.394 min Scan# 2017
Delta R.T. -0.006 min
Lab File: P8668.D
Acq: 24 Mar 2017 4:43 pm

Tgt Ion:125 Resp: 2177

Ion	Ratio	Lower	Upper
125	100		
160	10.2	29.8	44.6#
89	27.5	21.7	32.5

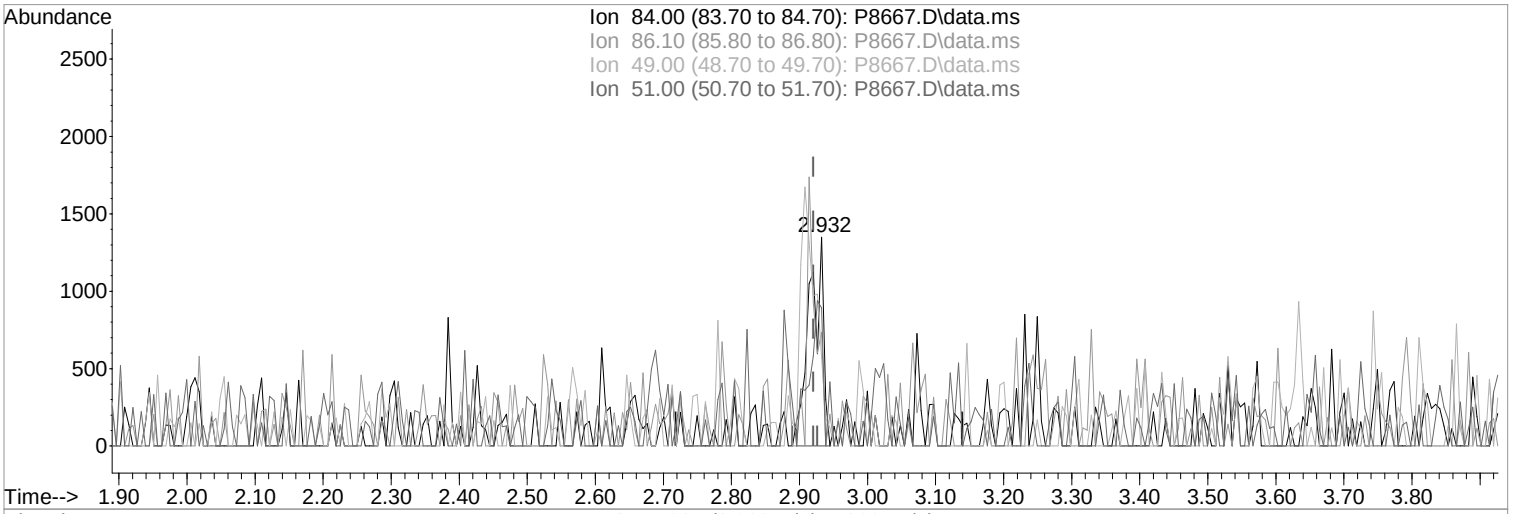


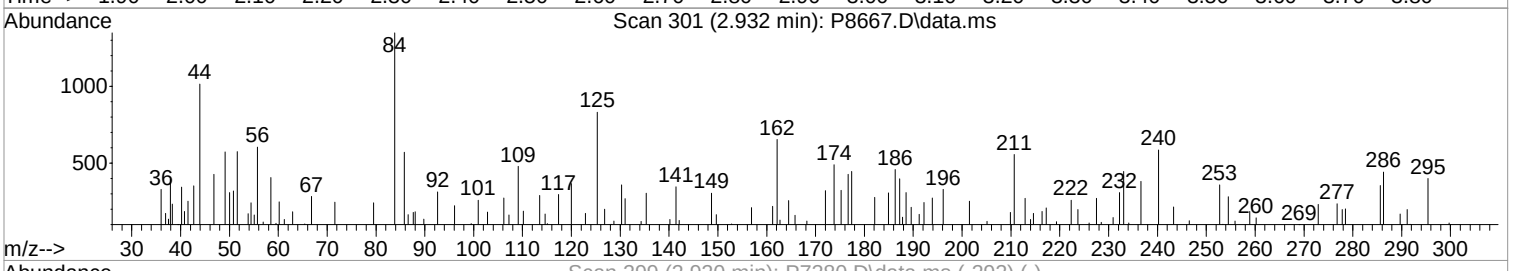
1st KR 03/24/17
2nd BA 03/28/17

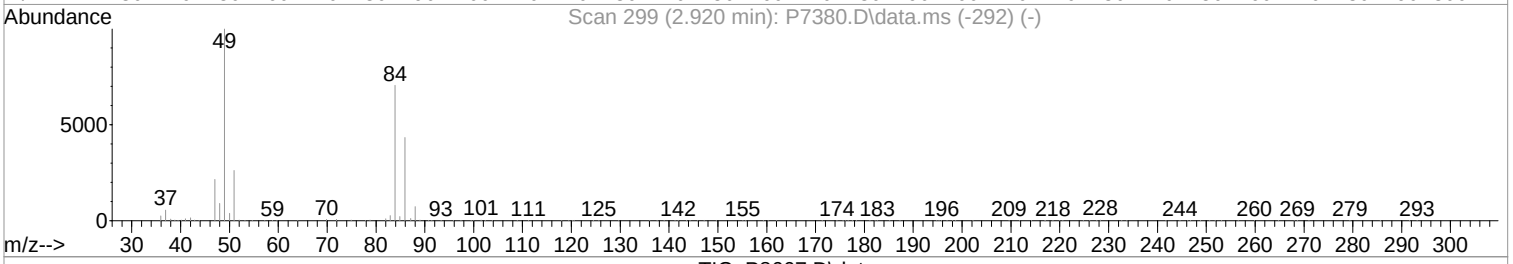
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8667.D
Acq On : 24 Mar 2017 4:10 pm
Operator : K.Ruest
Sample : R1702492-003|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 24 16:33:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8667.D\data.ms

(22) Methylene Chloride (P)

2.932min (+0.012) 0.30 ppb m

response 1885

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	42.33
49.00	142.00	42.48#
51.00	37.20	42.55

Manual Integration:

After

Split Peak

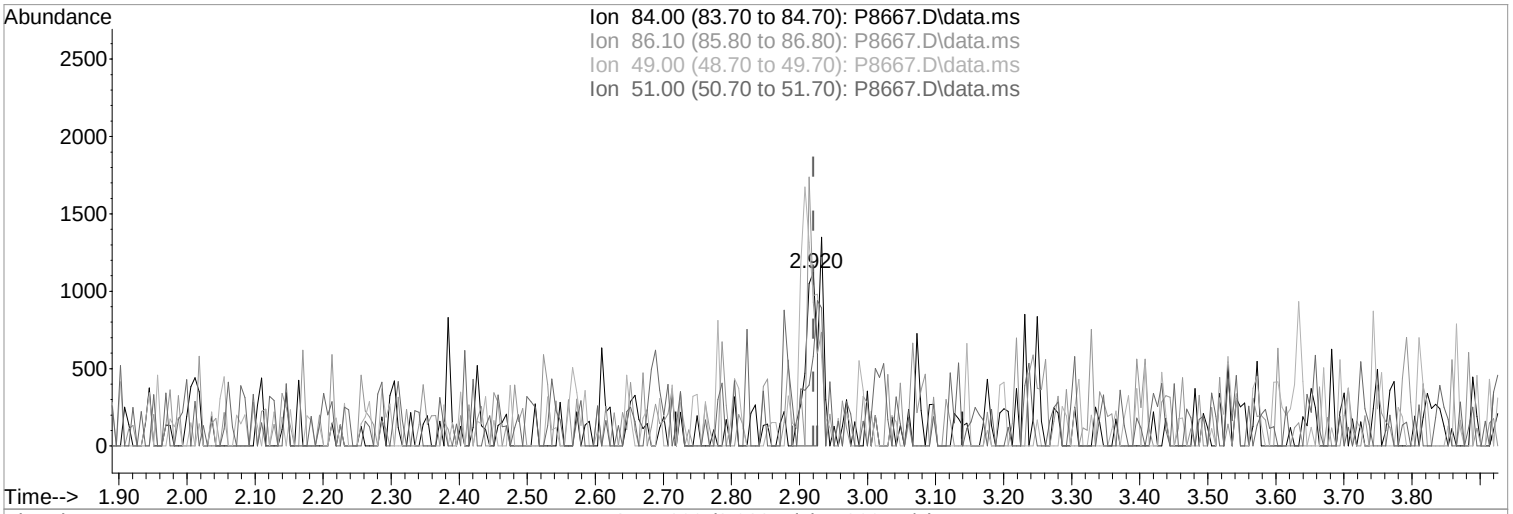
03/24/17

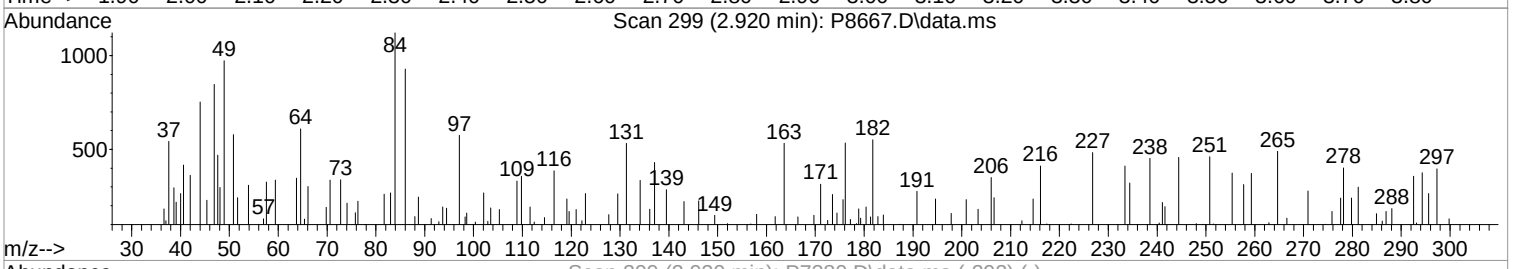
1st 03/24/17
2nd 03/28/17

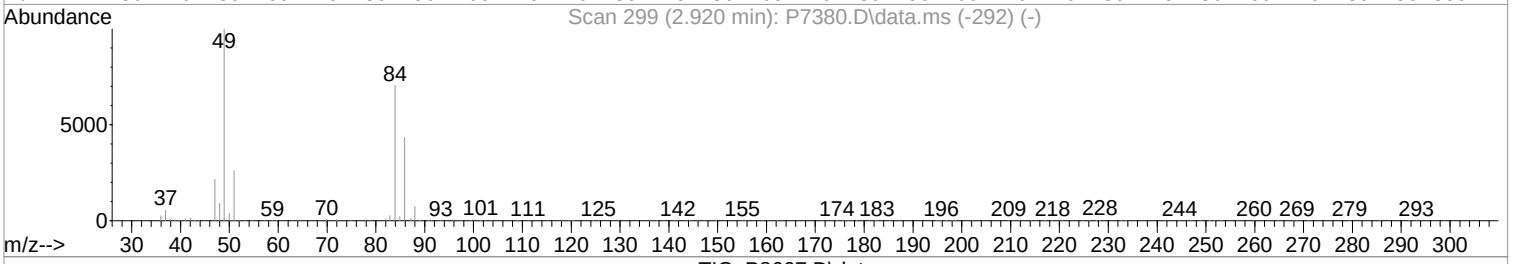
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8667.D
Acq On : 24 Mar 2017 4:10 pm
Operator : K.Ruest
Sample : R1702492-003|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 24 16:33:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8667.D\data.ms

(22) Methylene Chloride (P)

2.920min (+0.000) 0.22 ppb

response 1343

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	82.80#
49.00	142.00	86.72#
51.00	37.20	73.17#

Manual Integration:

Before

03/24/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8667.D
Acq On : 24 Mar 2017 4:10 pm
Operator : K.Ruest
Sample : R1702492-003|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 12 Sample Multiplier: 1

purple matrix

Quant Time: Mar 24 16:34:20 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

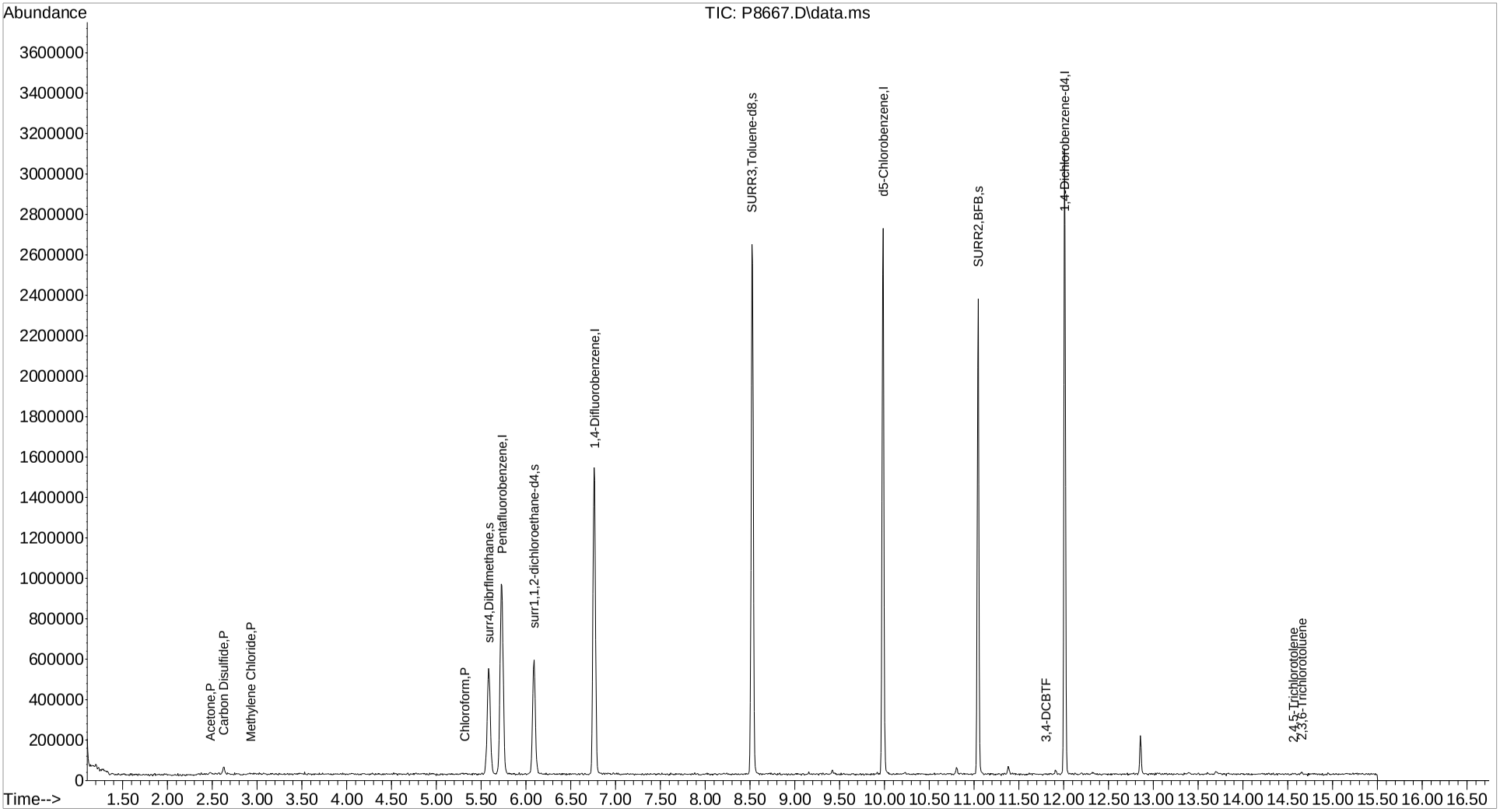
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	798466	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1294865	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1205505	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	608371	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	384140	54.98	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.96%				
48) surr1,1,2-dichloroetha...	6.090	65	444921	57.35	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 114.70%				
65) SURR3,Toluene-d8	8.523	98	1581013	54.73	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.46%				
70) SURR2,BFB	11.047	95	566463	50.60	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.20%				
Target Compounds							Qvalue
15) Acetone	2.481	43	6044	5.15	ppb		87
18) Carbon Disulfide	2.628	76	41093	2.38	ppb		94
22) Methylene Chloride	2.932	84	1885m	0.30	ppb		
40) Chloroform	5.316	83	2595	0.24	ppb	#	68
102) 3,4-DCBTF	11.796	214	1491	0.23	ppb	#	38
119) 2,4,5-Trichlorotolene	14.564	159	1654	0.32	ppb	#	86
120) 2,3,6-Trichlorotoluene	14.656	159	1114	0.26	ppb	#	60

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

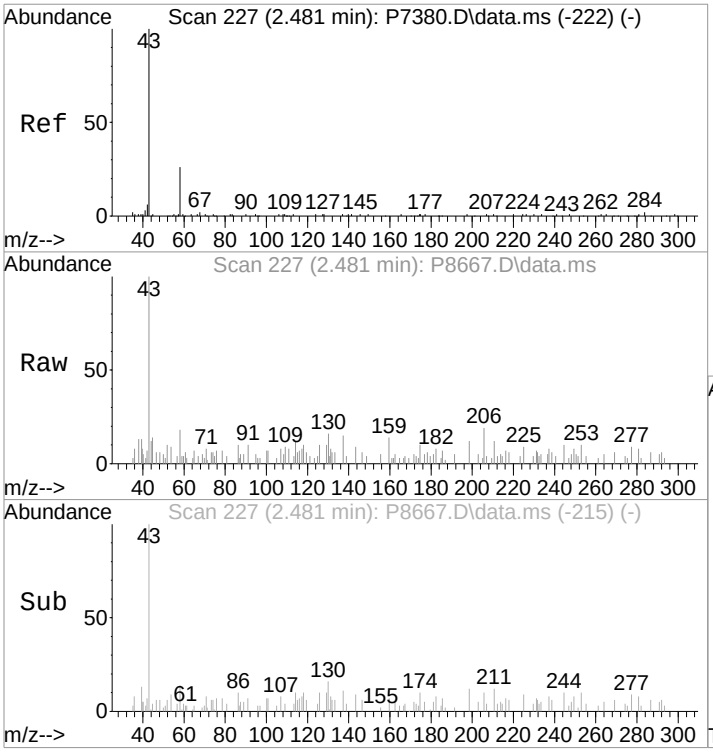
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8667.D
Acq On : 24 Mar 2017 4:10 pm
Operator : K.Ruest
Sample : R1702492-003|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 24 16:34:20 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



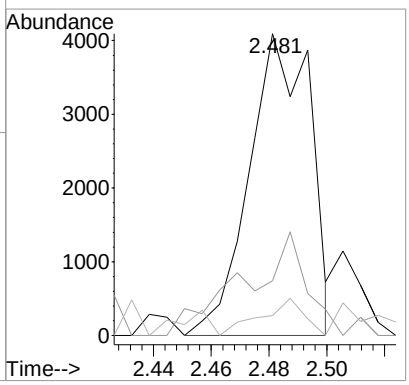
1st 03/24/17
2nd 03/28/17

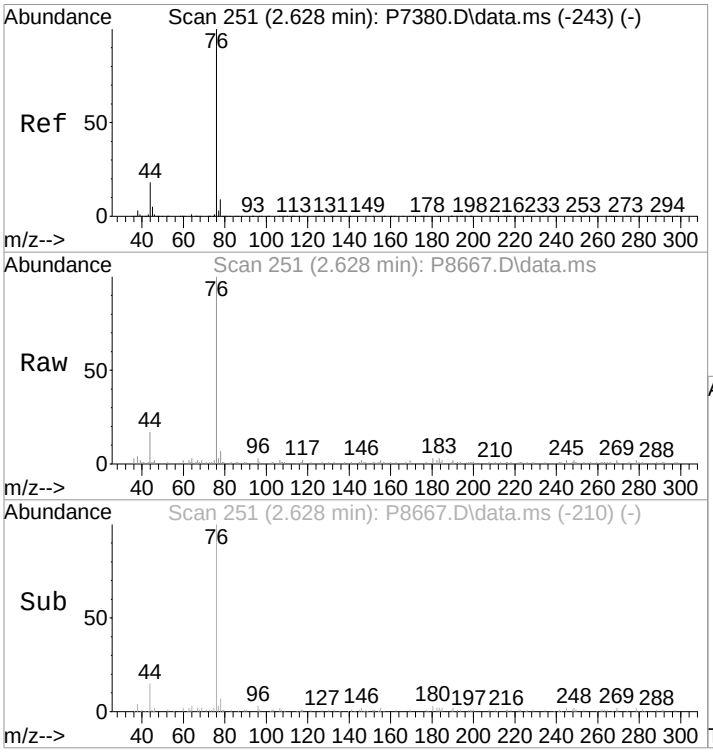


#15
Acetone
Concen: 5.15 ppb
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P8667.D
Acq: 24 Mar 2017 4:10 pm

Tgt Ion: 43 Resp: 6044

Ion	Ratio	Lower	Upper
43	100		
58	18.2	6.2	46.2
42	6.6	0.0	26.9

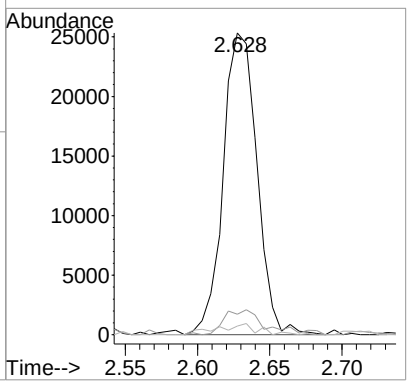


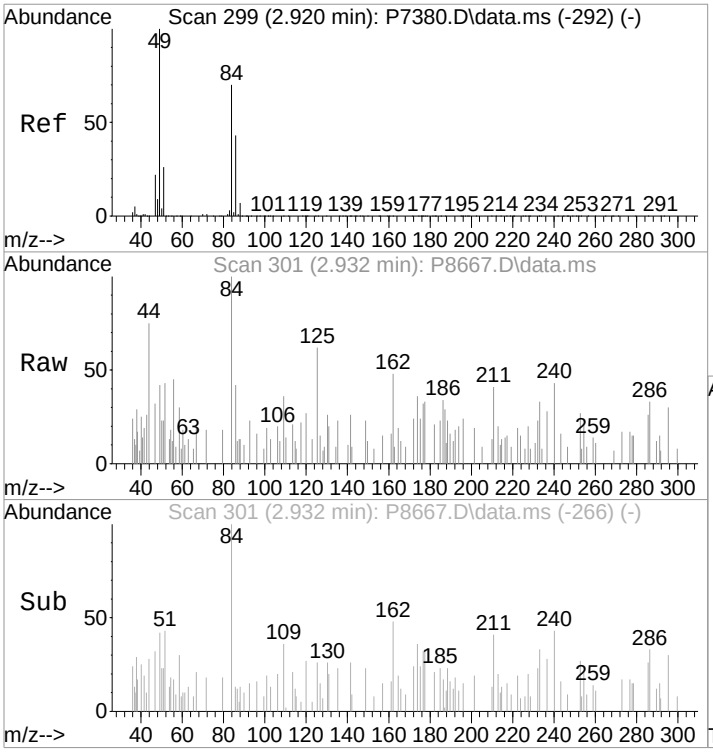


#18
Carbon Disulfide
Concen: 2.38 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P8667.D
Acq: 24 Mar 2017 4:10 pm

Tgt Ion: 76 Resp: 41093

Ion	Ratio	Lower	Upper
76	100		
78	6.8	0.0	29.5
77	2.9	0.0	22.7

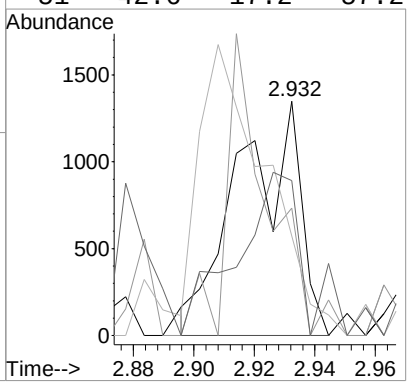


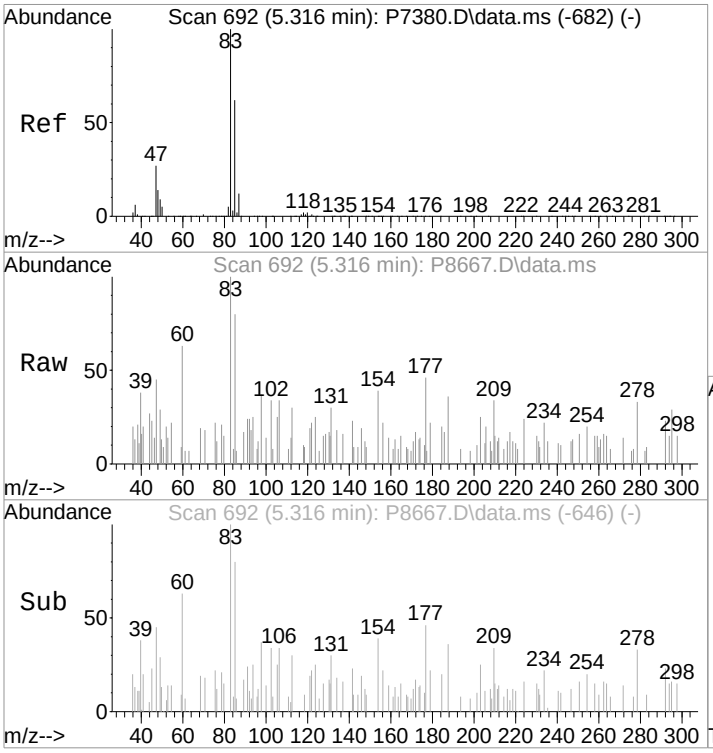


#22
Methylene Chloride
Concen: 0.30 ppb m
RT: 2.932 min Scan# 301
Delta R.T. 0.012 min
Lab File: P8667.D
Acq: 24 Mar 2017 4:10 pm

Tgt Ion: 84 Resp: 1885

Ion	Ratio	Lower	Upper
84	100		
86	42.3	41.5	81.5
49	42.5	122.0	162.0#
51	42.6	17.2	57.2

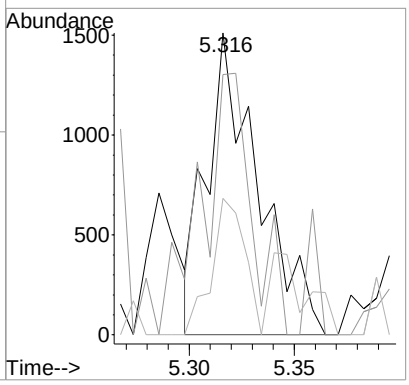


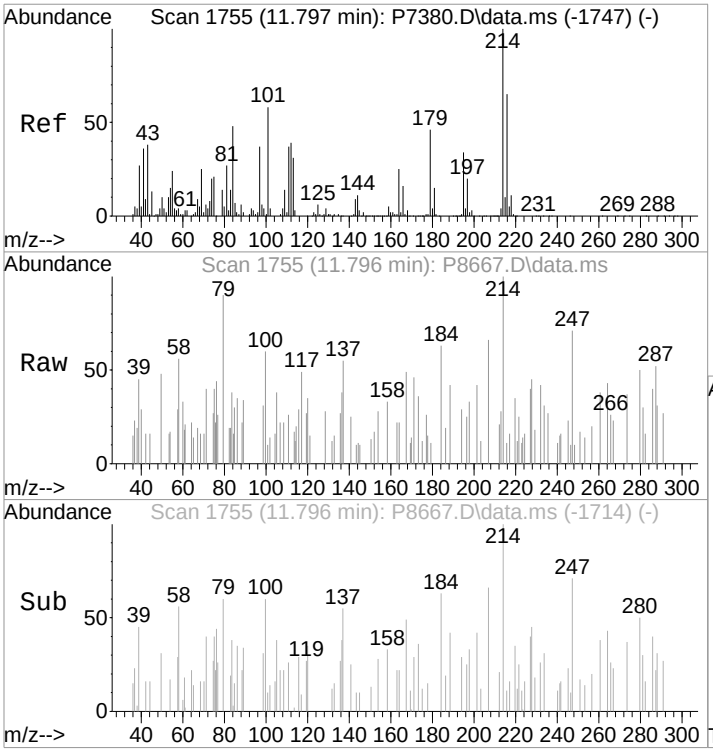


#40
Chloroform
Concen: 0.24 ppb
RT: 5.316 min Scan# 692
Delta R.T. -0.006 min
Lab File: P8667.D
Acq: 24 Mar 2017 4:10 pm

Tgt Ion: 83 Resp: 2595

Ion	Ratio	Lower	Upper
83	100		
85	86.2	42.3	82.3#
47	45.2	6.9	46.9

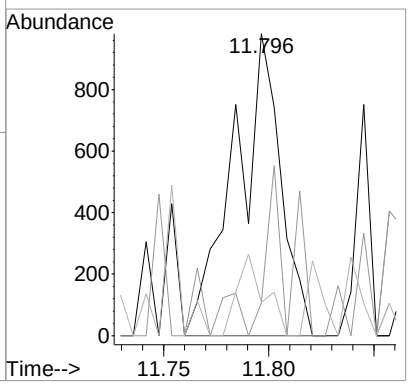


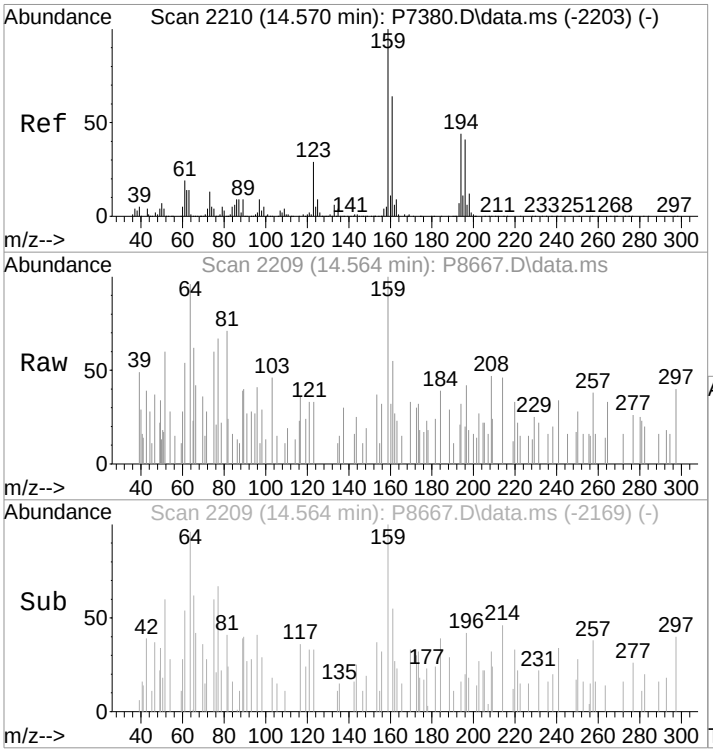


#102
3,4-DCBTF
Concen: 0.23 ppb
RT: 11.796 min Scan# 1755
Delta R.T. 0.000 min
Lab File: P8667.D
Acq: 24 Mar 2017 4:10 pm

Tgt Ion:214 Resp: 1491

Ion	Ratio	Lower	Upper
214	100		
216	10.9	52.2	78.2#
179	11.1	37.1	55.7#

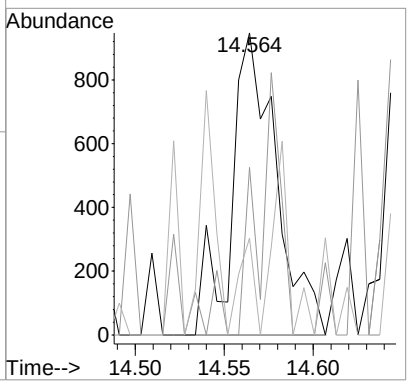


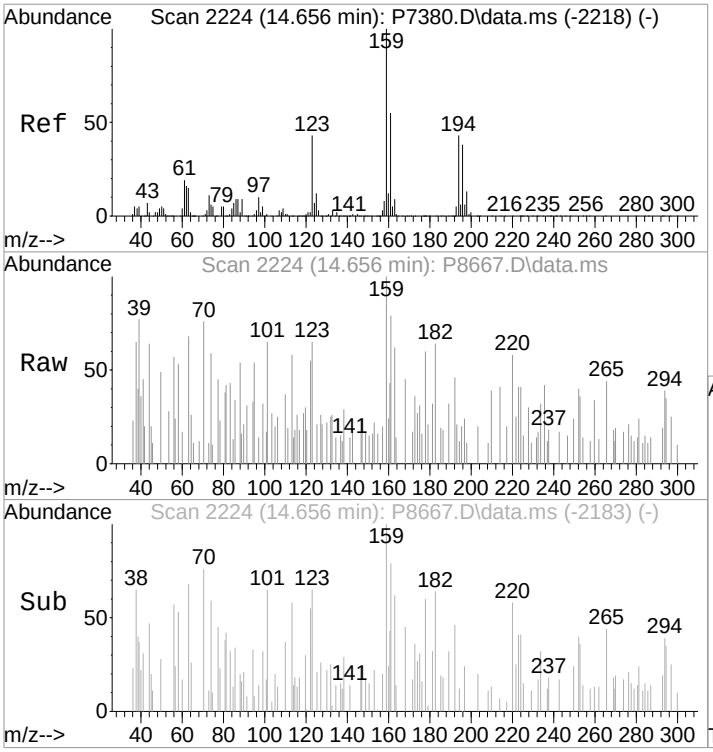


#119
2,4,5-Trichlorotolene
Concen: 0.32 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P8667.D
Acq: 24 Mar 2017 4:10 pm

Tgt Ion:159 Resp: 1654

Ion	Ratio	Lower	Upper
159	100		
161	55.5	51.0	76.4
194	32.1	35.4	53.2#

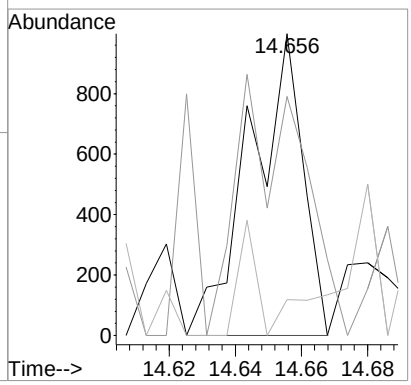




#120
2,3,6-Trichlorotoluene
Concen: 0.26 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P8667.D
Acq: 24 Mar 2017 4:10 pm

Tgt Ion:159 Resp: 1114

Ion	Ratio	Lower	Upper
159	100		
161	79.2	44.3	66.5#
194	11.9	34.8	52.2#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8669.D
Acq On : 24 Mar 2017 5:13 pm
Operator : K.Ruest
Sample : R1702492-004|5.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 14 Sample Multiplier: 1

foamy sample

Quant Time: Mar 24 17:42:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

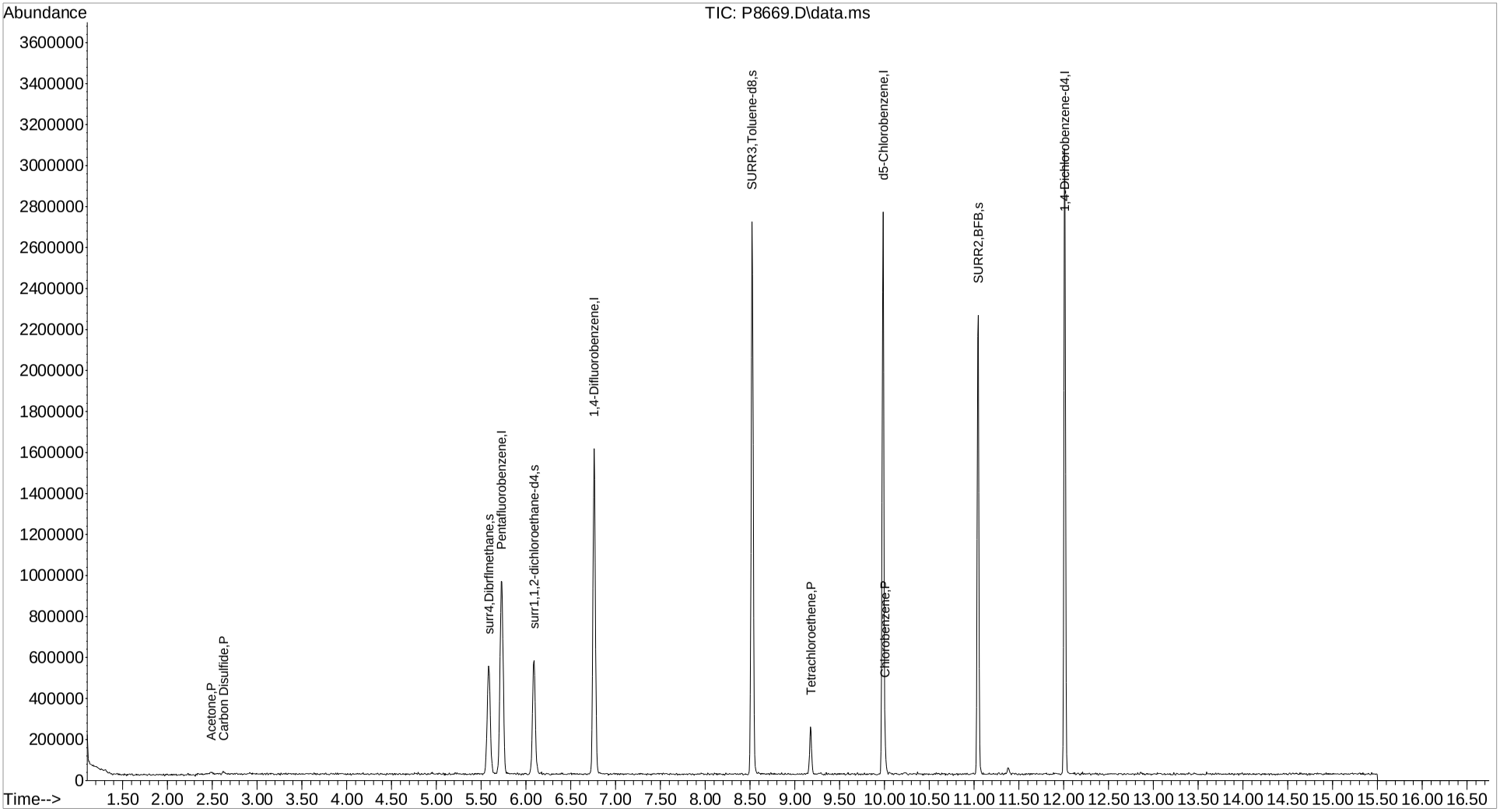
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.724	168	803250	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1276307	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1189488	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	596762	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	378748	54.99	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.98%				
48) surr1,1,2-dichloroetha...	6.090	65	432932	56.62	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 113.24%				
65) SURR3,Toluene-d8	8.523	98	1595682	56.04	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.08%				
70) SURR2,BFB	11.047	95	573099	51.94	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.88%				
Target Compounds							Qvalue
15) Acetone	2.487	43	9581	8.12	ppb		75
18) Carbon Disulfide	2.627	76	13481	0.78	ppb		97
72) Tetrachloroethene	9.175	164	44948	8.71	ppb	#	88
78) Chlorobenzene	10.004	112	24144	1.44	ppb		85

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

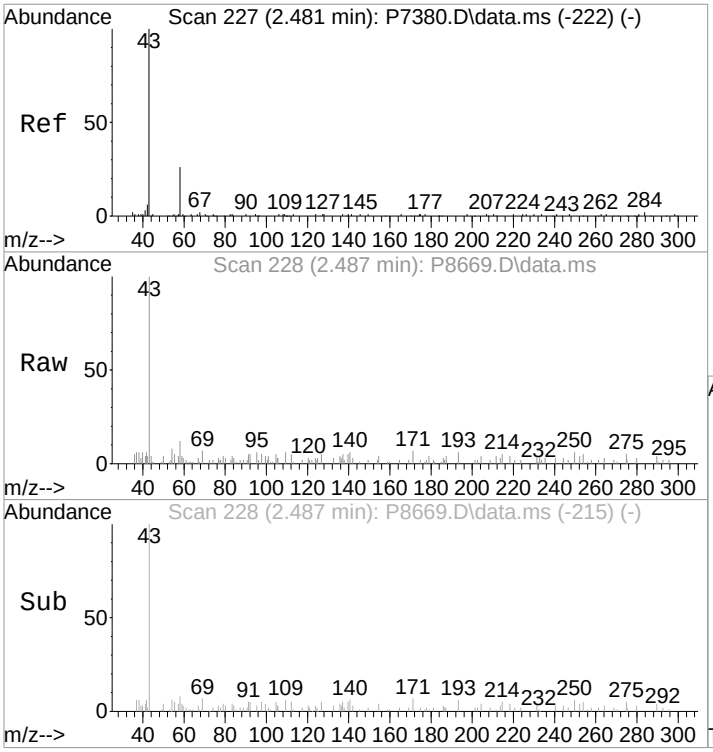
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8669.D
Acq On : 24 Mar 2017 5:13 pm
Operator : K.Ruest
Sample : R1702492-004|5.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 24 17:42:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



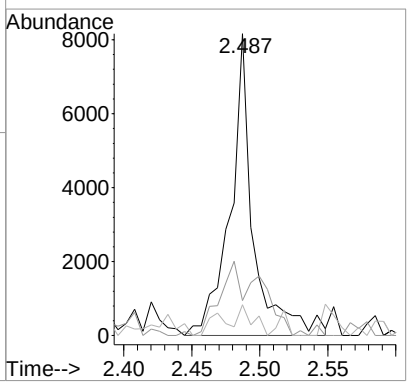
1st KR 03/24/17
2nd BA 03/28/17

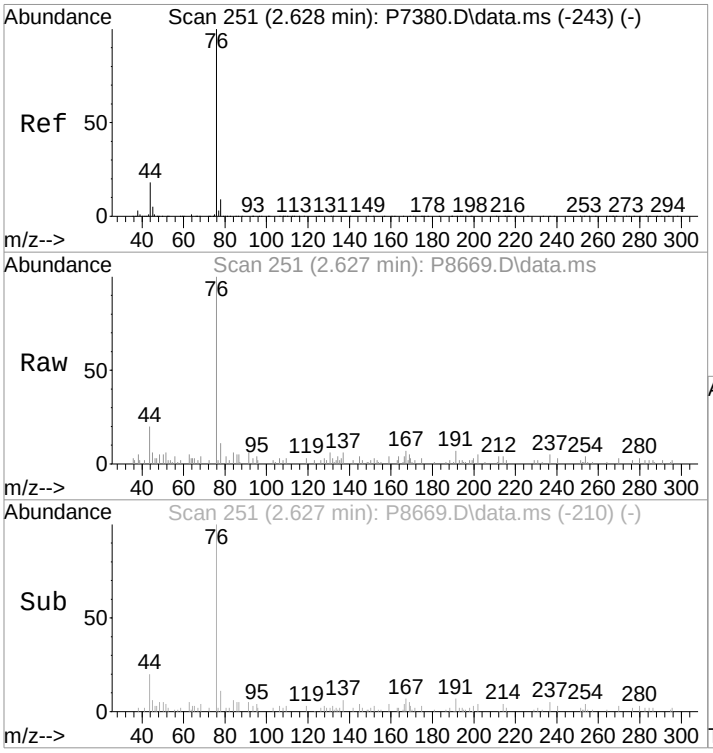


#15
Acetone
Concen: 8.12 ppb
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P8669.D
Acq: 24 Mar 2017 5:13 pm

Tgt Ion: 43 Resp: 9581

Ion	Ratio	Lower	Upper
43	100		
58	11.5	6.2	46.2
42	10.2	0.0	26.9

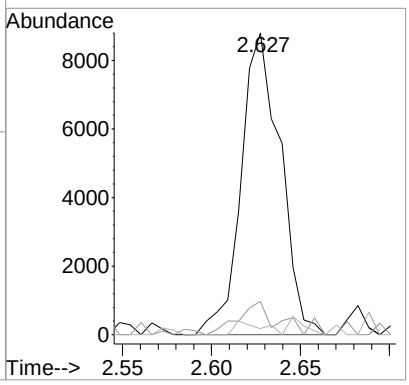


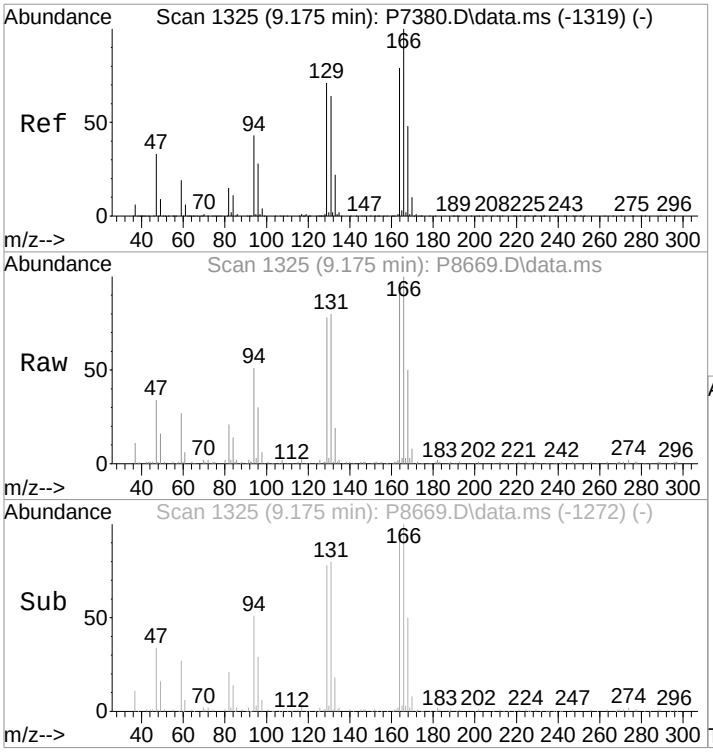


#18
Carbon Disulfide
Concen: 0.78 ppb
RT: 2.627 min Scan# 251
Delta R.T. -0.006 min
Lab File: P8669.D
Acq: 24 Mar 2017 5:13 pm

Tgt Ion: 76 Resp: 13481

Ion	Ratio	Lower	Upper
76	100		
78	10.9	0.0	29.5
77	2.0	0.0	22.7

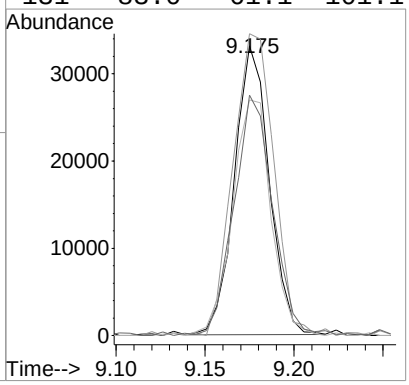


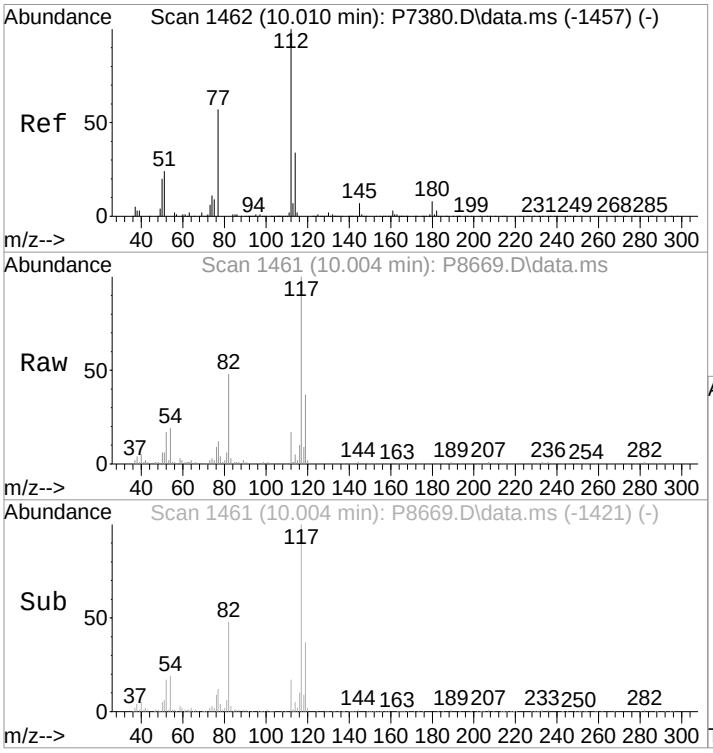


#72
Tetrachloroethene
Concen: 8.71 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8669.D
Acq: 24 Mar 2017 5:13 pm

Tgt Ion:164 Resp: 44948

Ion	Ratio	Lower	Upper
164	100		
166	104.2	106.8	146.8#
129	81.3	69.7	109.7
131	83.0	61.1	101.1

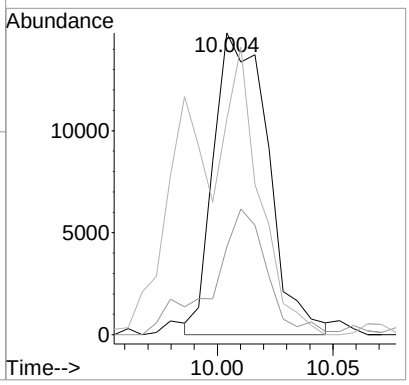




#78
Chlorobenzene
Concen: 1.44 ppb
RT: 10.004 min Scan# 1461
Delta R.T. -0.006 min
Lab File: P8669.D
Acq: 24 Mar 2017 5:13 pm

Tgt Ion:112 Resp: 24144

Ion	Ratio	Lower	Upper
112	100		
114	29.0	13.9	53.9
77	71.2	37.7	77.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8670.D
Acq On : 24 Mar 2017 5:42 pm
Operator : K.Ruest
Sample : R1702492-006|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 24 18:01:46 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

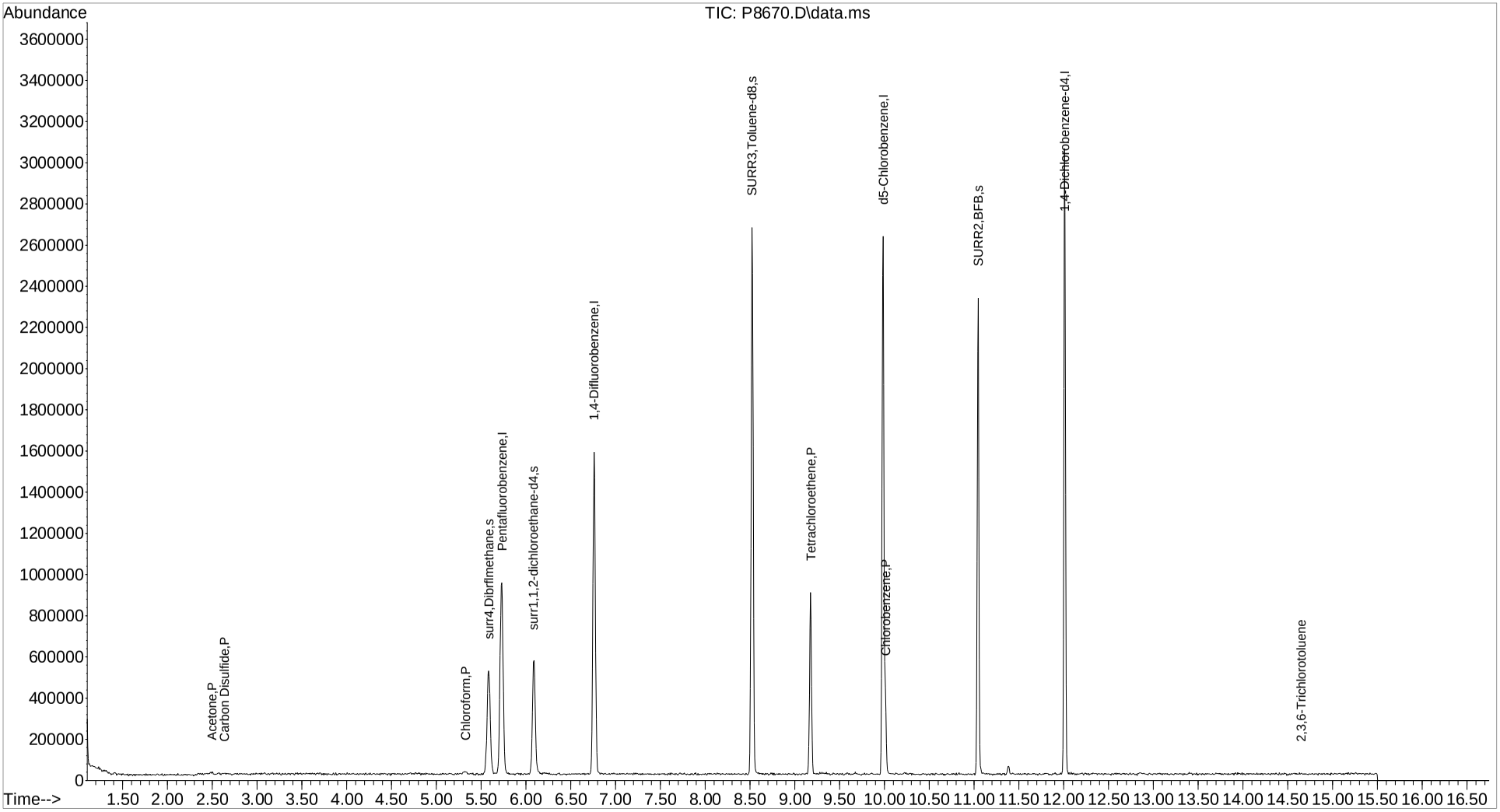
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	782958	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1291743	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1179610	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	590474	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	371189	53.25	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.50%				
48) surr1,1,2-dichloroetha...	6.084	65	442416	57.17	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 114.34%				
65) SURR3,Toluene-d8	8.523	98	1548821	53.74	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.48%				
70) SURR2,BFB	11.047	95	572485	51.27	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.54%				
Target Compounds							Qvalue
15) Acetone	2.494	43	11051	9.61	ppb		79
18) Carbon Disulfide	2.634	76	6276	0.37	ppb		79
40) Chloroform	5.322	83	13397	1.28	ppb		89
72) Tetrachloroethene	9.175	164	161391	31.54	ppb		90
78) Chlorobenzene	10.010	112	156083	9.42	ppb		96
120) 2,3,6-Trichlorotoluene	14.650	159	1601	0.39	ppb	#	82

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

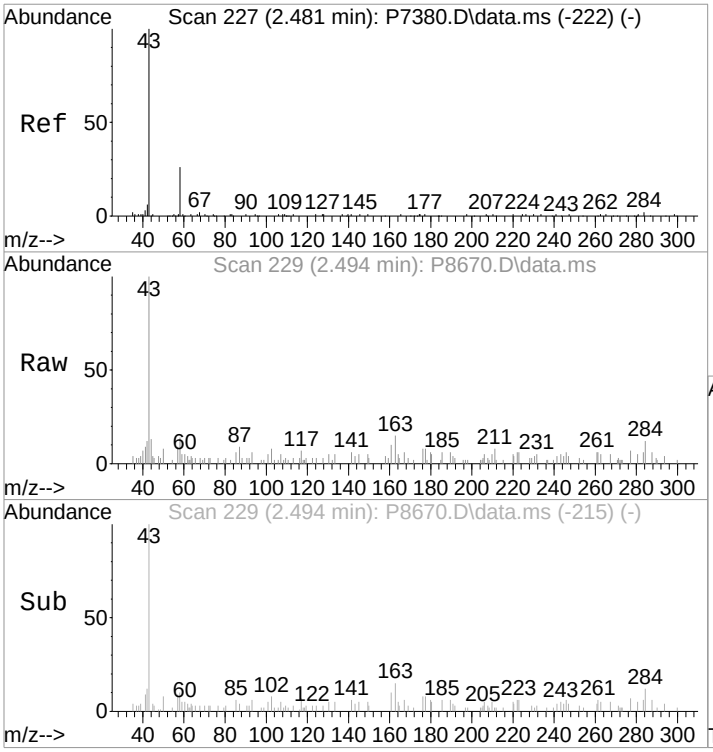
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8670.D
Acq On : 24 Mar 2017 5:42 pm
Operator : K.Ruest
Sample : R1702492-006|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 24 18:01:46 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



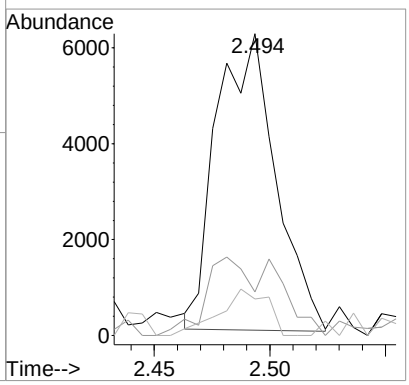
1st KR 03/24/17
2nd BA 03/28/17

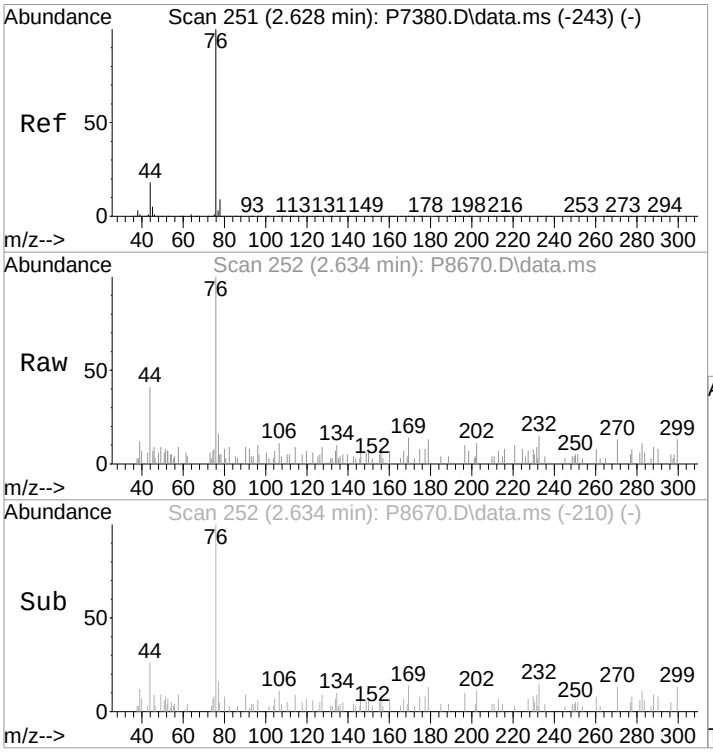


#15
Acetone
Concen: 9.61 ppb
RT: 2.494 min Scan# 229
Delta R.T. 0.012 min
Lab File: P8670.D
Acq: 24 Mar 2017 5:42 pm

Tgt Ion: 43 Resp: 11051

Ion	Ratio	Lower	Upper
43	100		
58	14.4	6.2	46.2
42	12.1	0.0	26.9

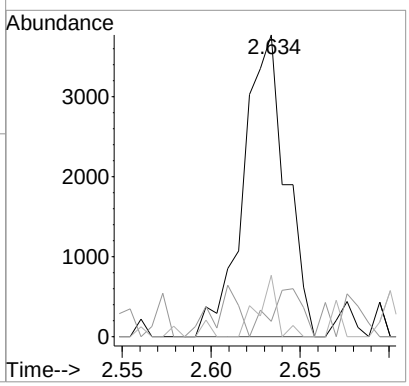


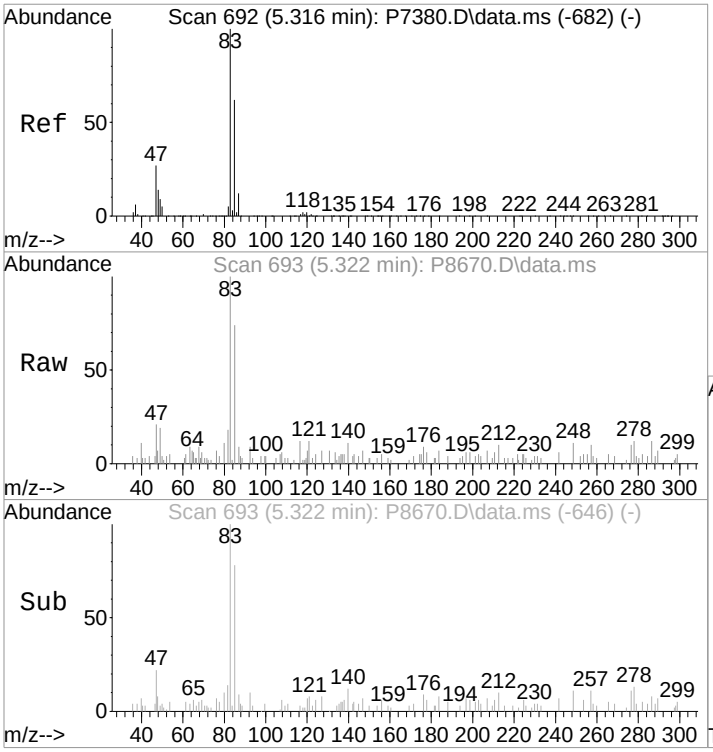


#18
Carbon Disulfide
Concen: 0.37 ppb
RT: 2.634 min Scan# 252
Delta R.T. 0.000 min
Lab File: P8670.D
Acq: 24 Mar 2017 5:42 pm

Tgt Ion: 76 Resp: 6276

Ion	Ratio	Lower	Upper
76	100		
78	5.1	0.0	29.5
77	20.3	0.0	22.7

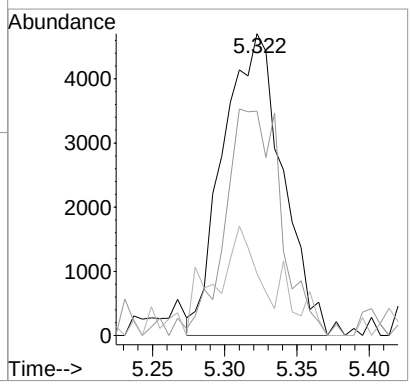


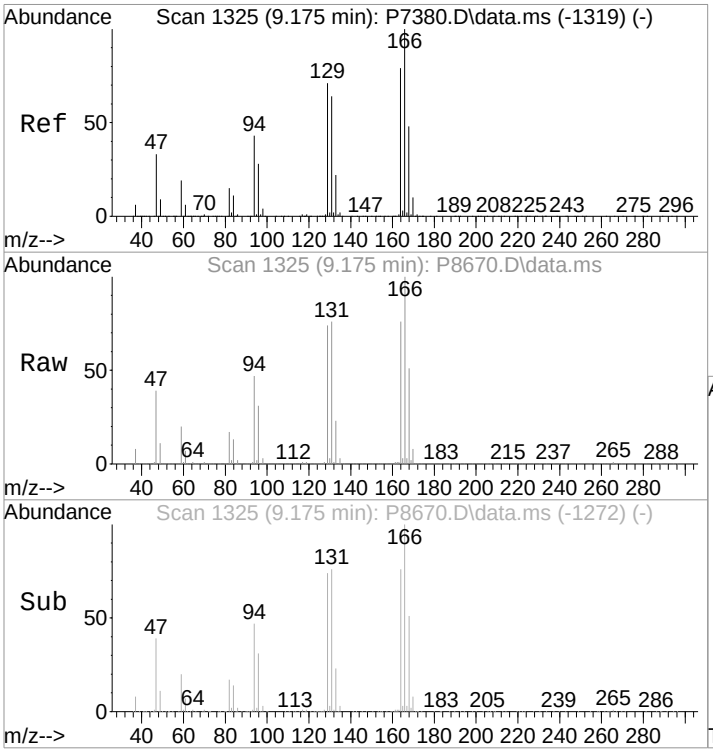


#40
Chloroform
Concen: 1.28 ppb
RT: 5.322 min Scan# 693
Delta R.T. 0.000 min
Lab File: P8670.D
Acq: 24 Mar 2017 5:42 pm

Tgt Ion: 83 Resp: 13397

Ion	Ratio	Lower	Upper
83	100		
85	74.3	42.3	82.3
47	27.8	6.9	46.9

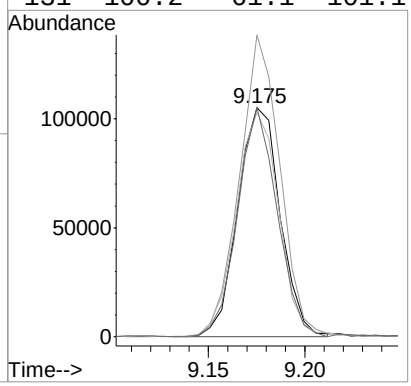


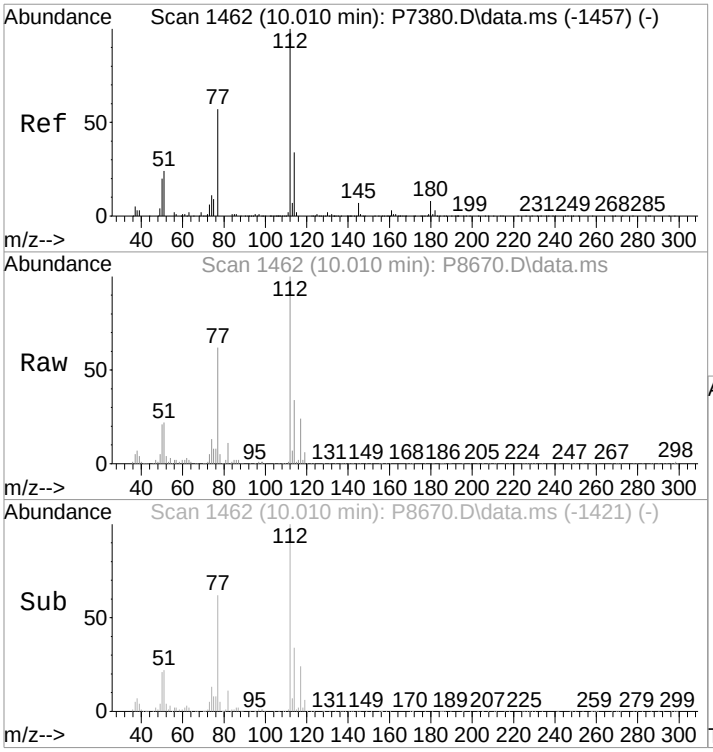


#72
Tetrachloroethene
Concen: 31.54 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8670.D
Acq: 24 Mar 2017 5:42 pm

Tgt Ion:164 Resp: 161391

Ion	Ratio	Lower	Upper
164	100		
166	131.8	106.8	146.8
129	97.9	69.7	109.7
131	100.2	61.1	101.1

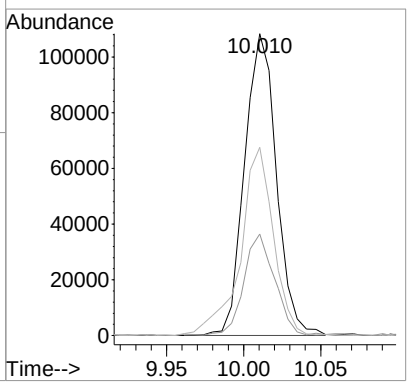


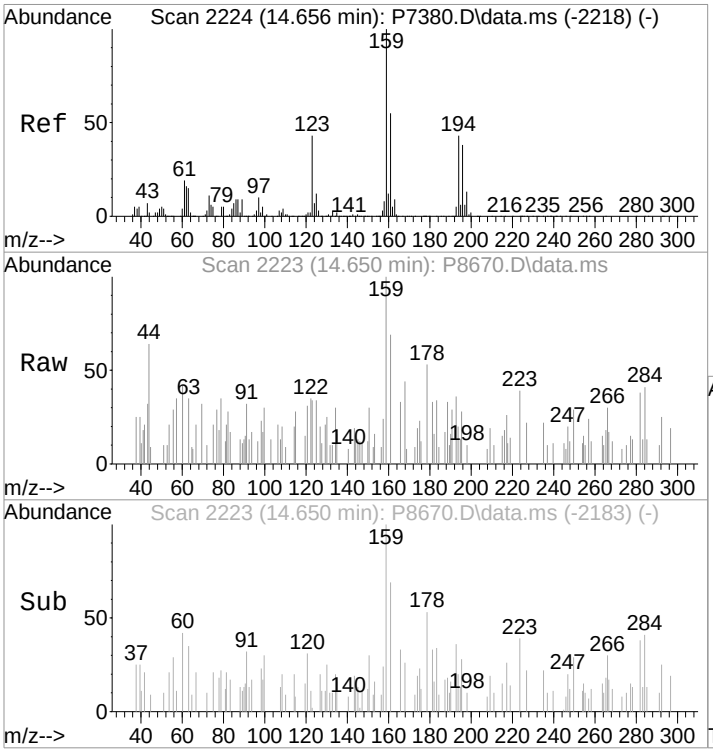


#78
Chlorobenzene
Concen: 9.42 ppb
RT: 10.010 min Scan# 1462
Delta R.T. 0.000 min
Lab File: P8670.D
Acq: 24 Mar 2017 5:42 pm

Tgt Ion:112 Resp: 156083

Ion	Ratio	Lower	Upper
112	100		
114	33.6	13.9	53.9
77	62.3	37.7	77.7

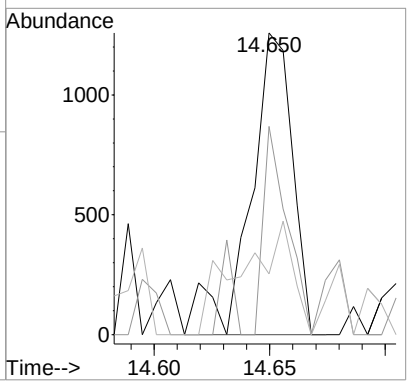




#120
2,3,6-Trichlorotoluene
Concen: 0.39 ppb
RT: 14.650 min Scan# 2223
Delta R.T. -0.006 min
Lab File: P8670.D
Acq: 24 Mar 2017 5:42 pm

Tgt Ion:159 Resp: 1601

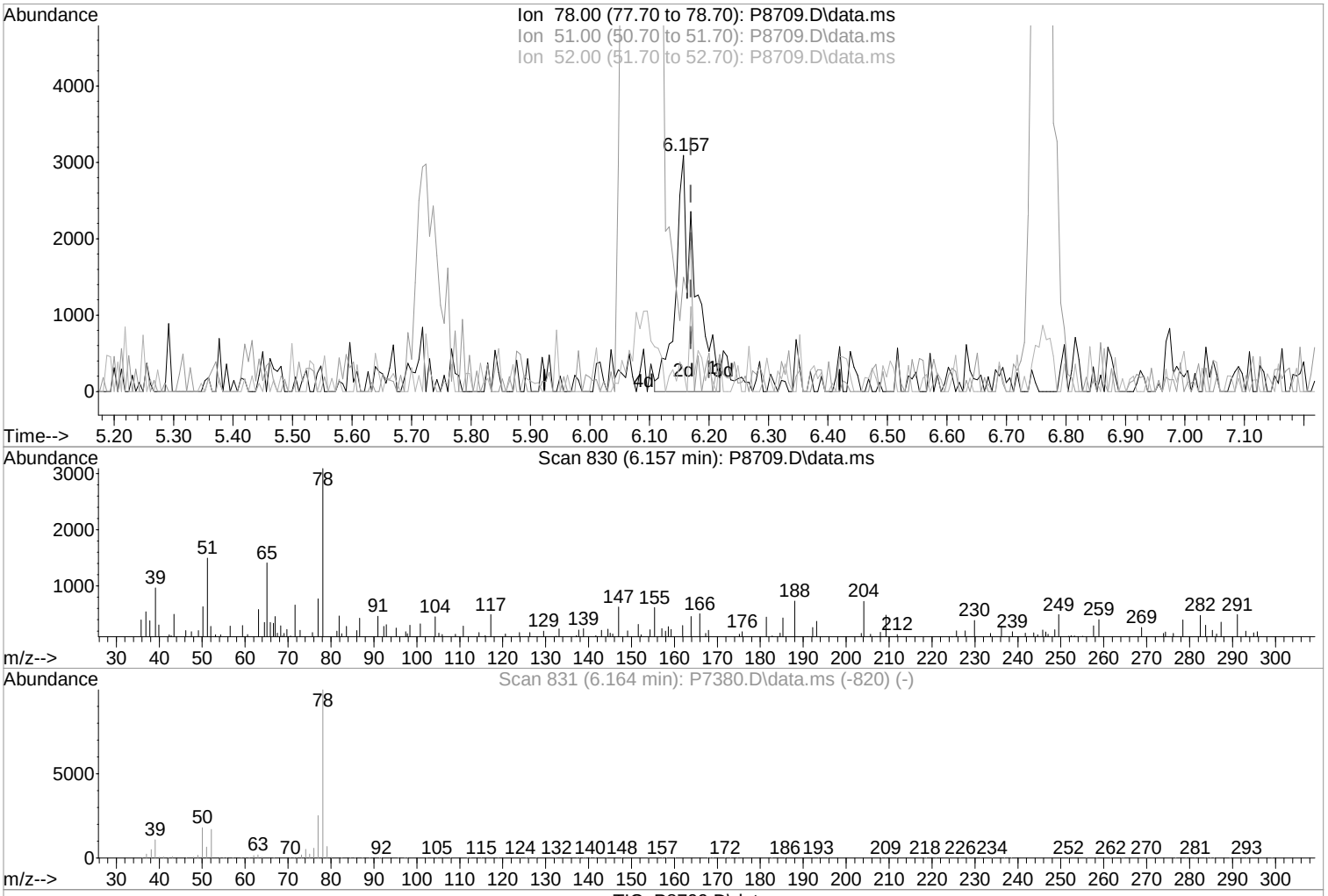
Ion	Ratio	Lower	Upper
159	100		
161	69.0	44.3	66.5#
194	33.3	34.8	52.2#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8709.D
Acq On : 27 Mar 2017 1:23 pm
Operator : K.Ruest
Sample : R1702492-008|2.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 27 13:55:26 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8709.D\data.ms

(49) Benzene (P)

6.157min (-0.012) 0.29 ppb m

response 6985

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	48.35#
52.00	16.90	9.06
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

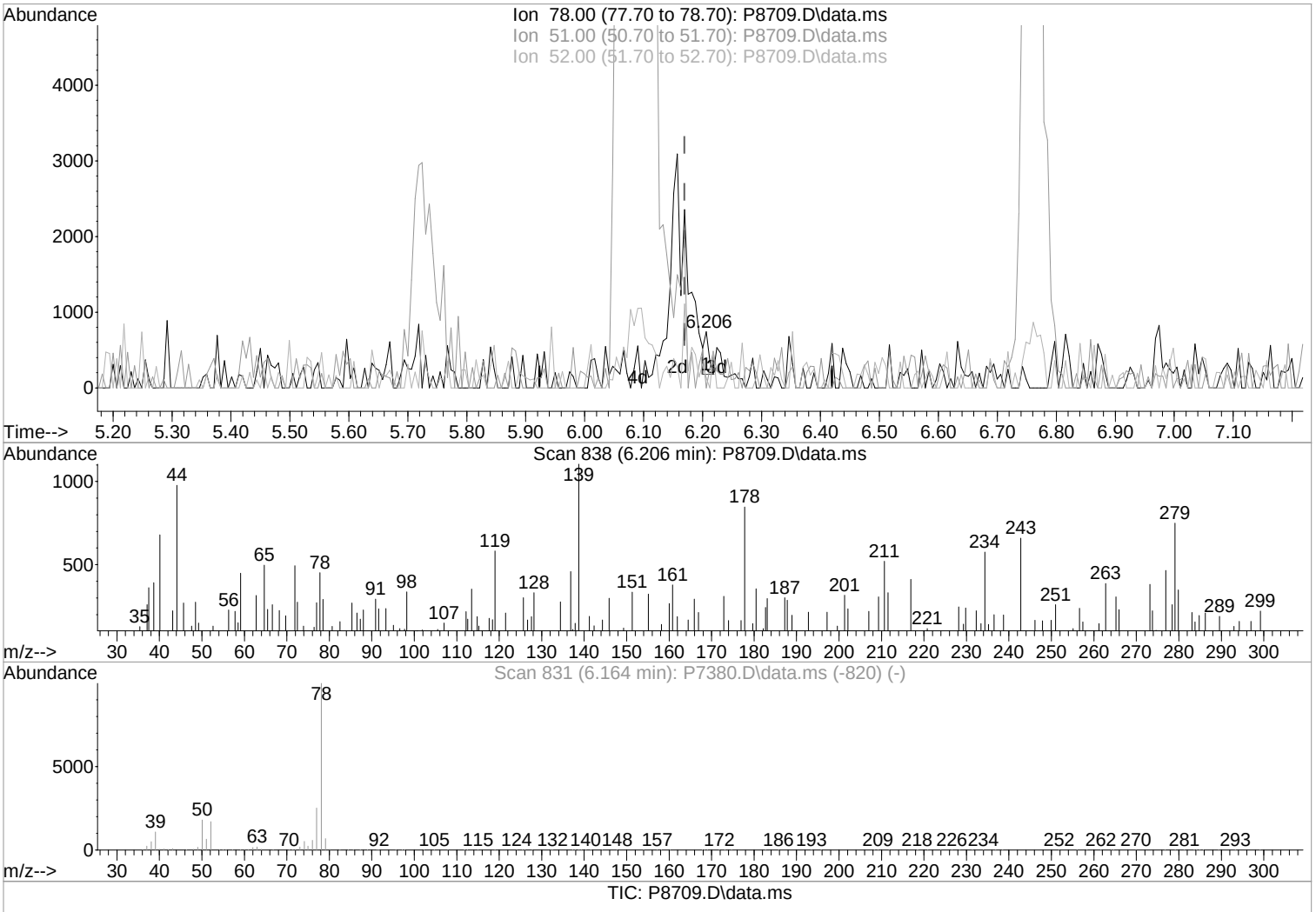
03/28/17

1st 03/28/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8709.D
Acq On : 27 Mar 2017 1:23 pm
Operator : K.Ruest
Sample : R1702492-008|2.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 27 13:55:26 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8709.D\data.ms

(49) Benzene (P)

6.206min (+0.037) 0.01 ppb

response 271

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	0.00
52.00	16.90	17.50
0.00	0.00	0.00

Manual Integration:

Before

03/28/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8709.D
Acq On : 27 Mar 2017 1:23 pm
Operator : K.Ruest
Sample : R1702492-008|2.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 28 10:41:31 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

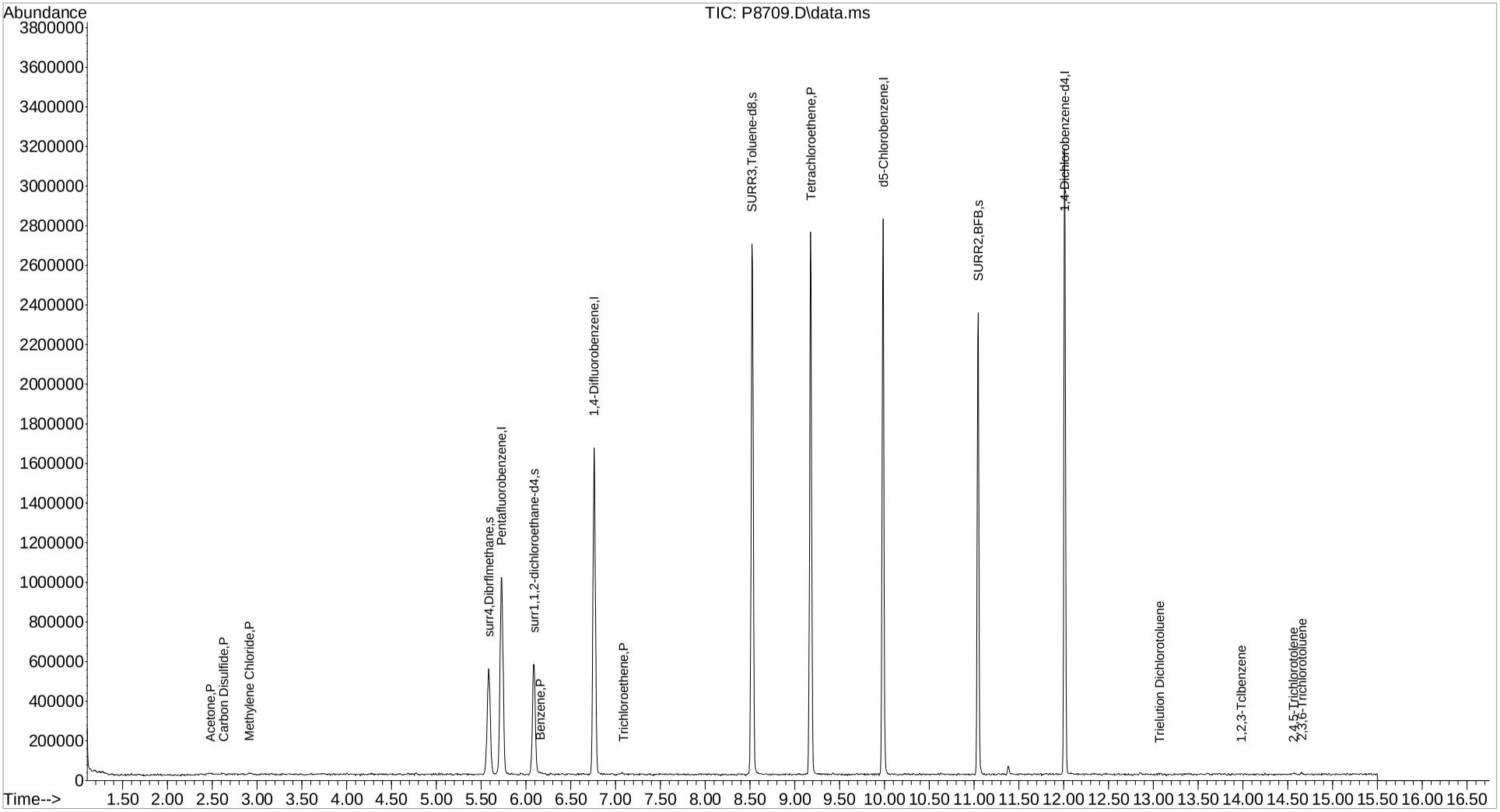
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.724	168	820501	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1342165	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1224346	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	612755	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	391801	54.10	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.20%				
48) surr1,1,2-dichloroetha...	6.090	65	441108	54.86	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.72%				
65) SURR3,Toluene-d8	8.523	98	1635840	54.63	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.26%				
70) SURR2,BFB	11.047	95	586108	50.51	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.02%				
Target Compounds							Qvalue
15) Acetone	2.475	43	6775	5.62	ppb		89
18) Carbon Disulfide	2.621	76	7786	0.44	ppb		75
22) Methylene Chloride	2.914	84	2978	0.47	ppb	#	42
49) Benzene	6.157	78	6985m	0.29	ppb		
54) Trichloroethene	7.084	130	2298	0.33	ppb	#	79
72) Tetrachloroethene	9.175	164	526880	99.21	ppb		95
112) Trielution Dichlorotol...	13.071	125	2957	0.28	ppb	#	77
118) 1,2,3-Tclbenzene	13.985	180	1370	0.21	ppb	#	81
119) 2,4,5-Trichlorotolene	14.558	159	1905	0.37	ppb	#	61
120) 2,3,6-Trichlorotoluene	14.656	159	1198	0.28	ppb	#	41

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

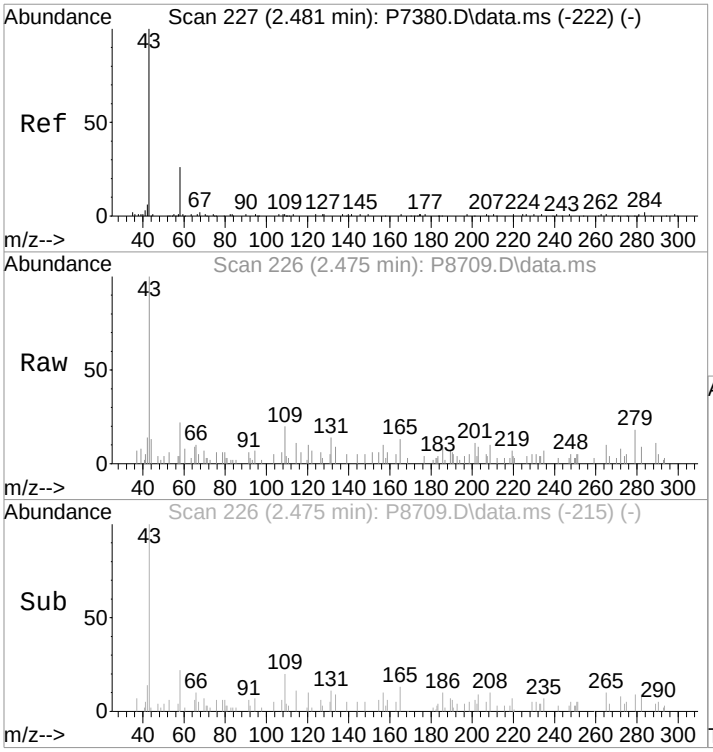
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8709.D
Acq On : 27 Mar 2017 1:23 pm
Operator : K.Ruest
Sample : R1702492-008|2.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 28 10:41:31 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



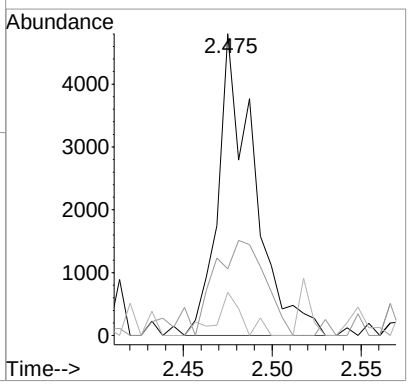
1st 03/28/17
2nd 03/28/17

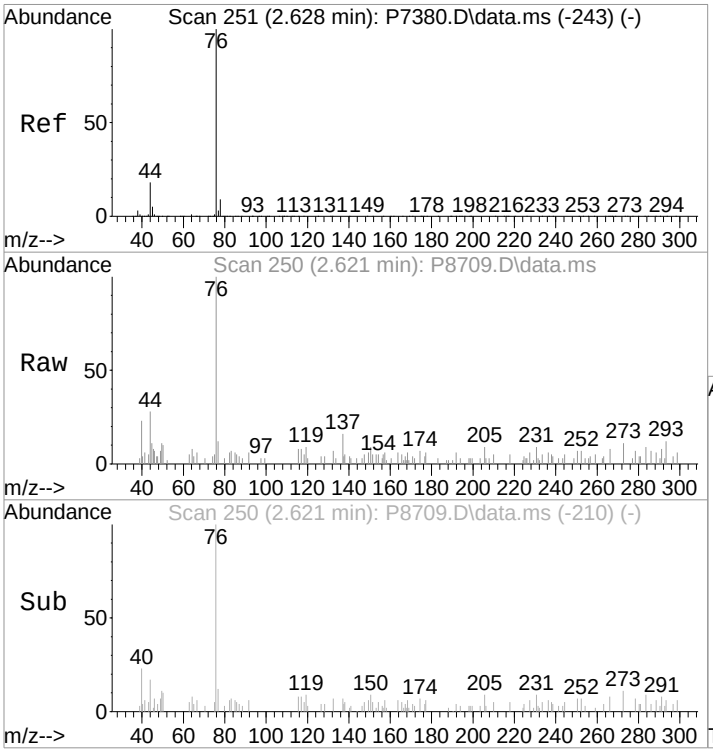


#15
Acetone
Concen: 5.62 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion: 43 Resp: 6775

Ion	Ratio	Lower	Upper
43	100		
58	22.1	6.2	46.2
42	14.4	0.0	26.9

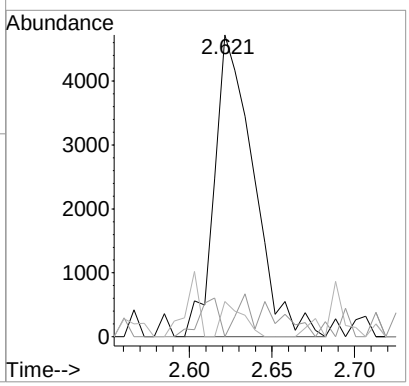


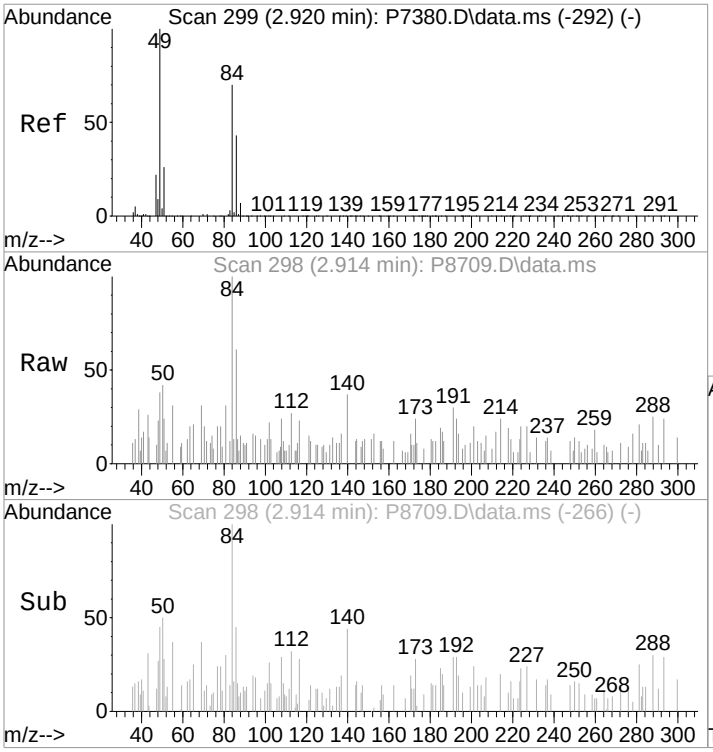


#18
Carbon Disulfide
Concen: 0.44 ppb
RT: 2.621 min Scan# 250
Delta R.T. -0.012 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion: 76 Resp: 7786

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	29.5
77	10.5	0.0	22.7

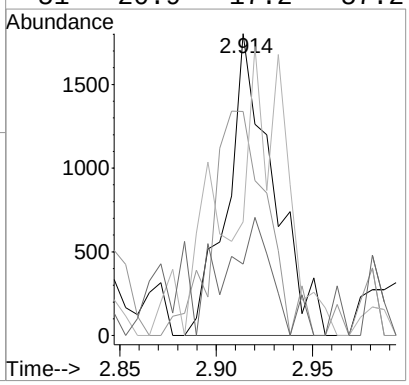


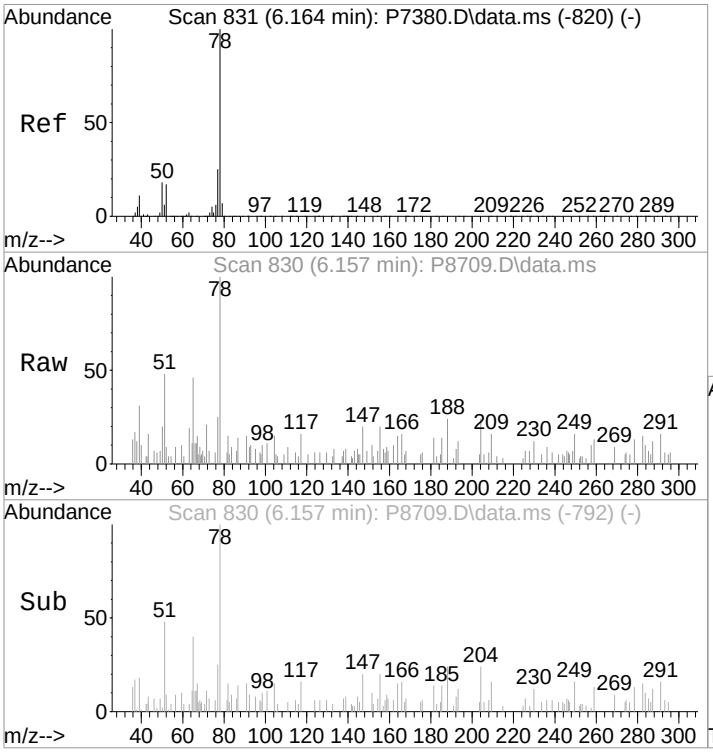


#22
Methylene Chloride
Concen: 0.47 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion: 84 Resp: 2978

Ion	Ratio	Lower	Upper
84	100		
86	65.4	41.5	81.5
49	33.2	122.0	162.0#
51	20.9	17.2	57.2

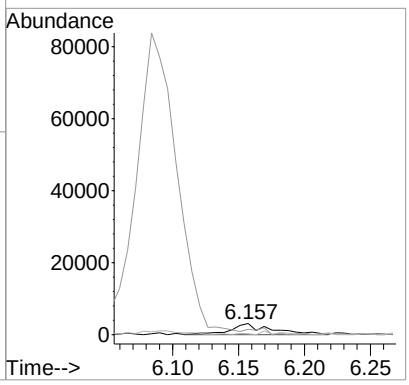


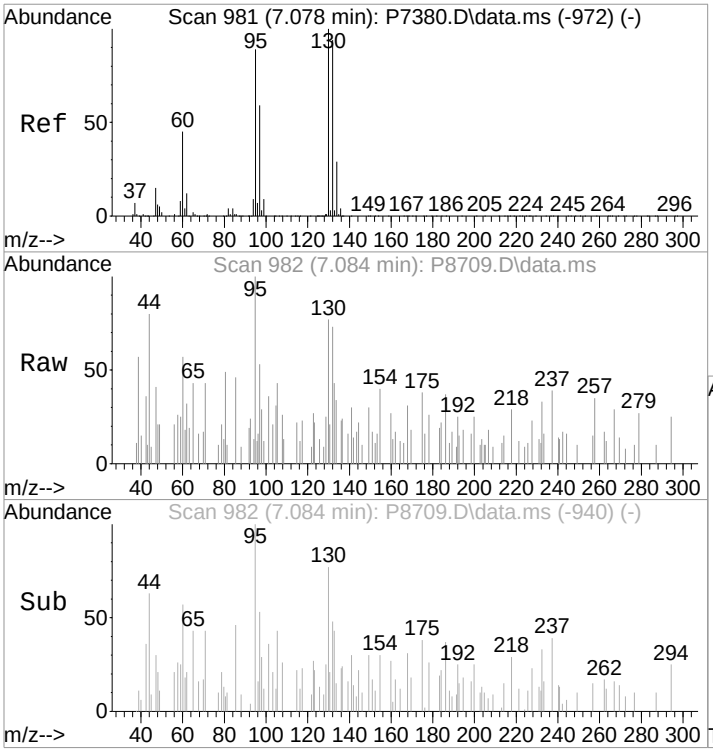


#49
Benzene
Concen: 0.29 ppb m
RT: 6.157 min Scan# 830
Delta R.T. -0.012 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion: 78 Resp: 6985

Ion	Ratio	Lower	Upper
78	100		
51	48.4	0.0	38.8#
52	9.1	0.0	36.9

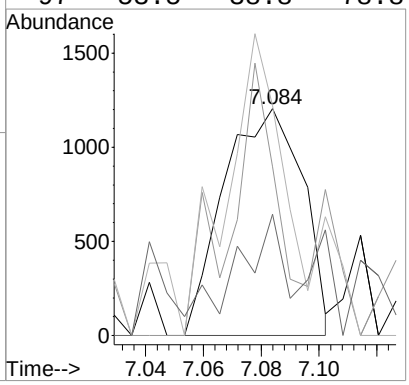


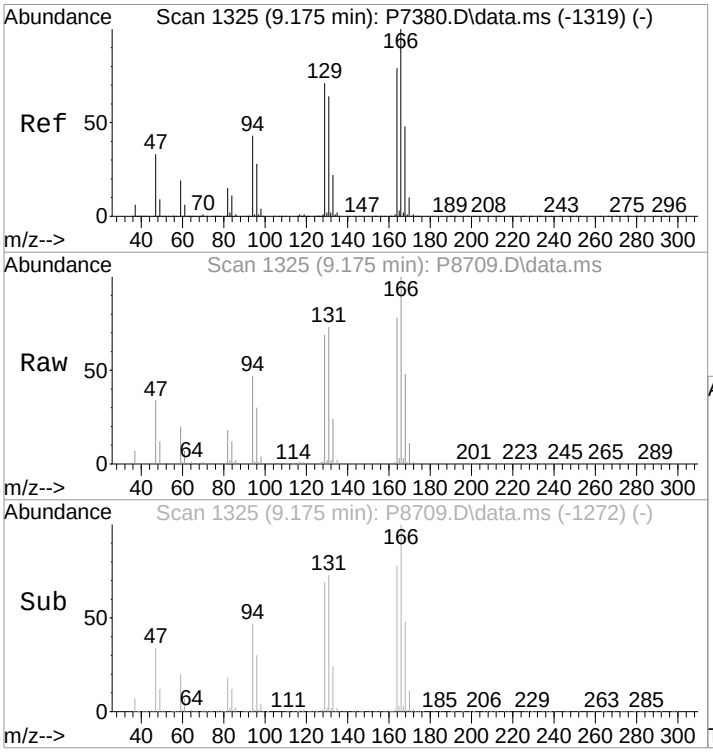


#54
Trichloroethene
Concen: 0.33 ppb
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion:130 Resp: 2298

Ion	Ratio	Lower	Upper
130	100		
132	117.7	74.2	114.2#
95	113.8	69.4	109.4#
97	53.5	38.8	78.8

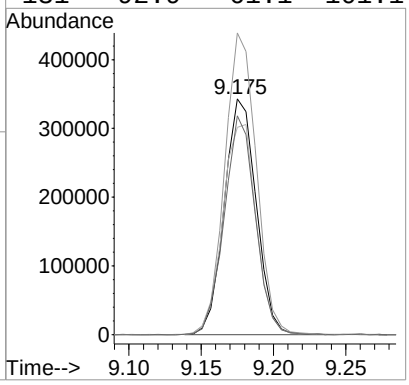


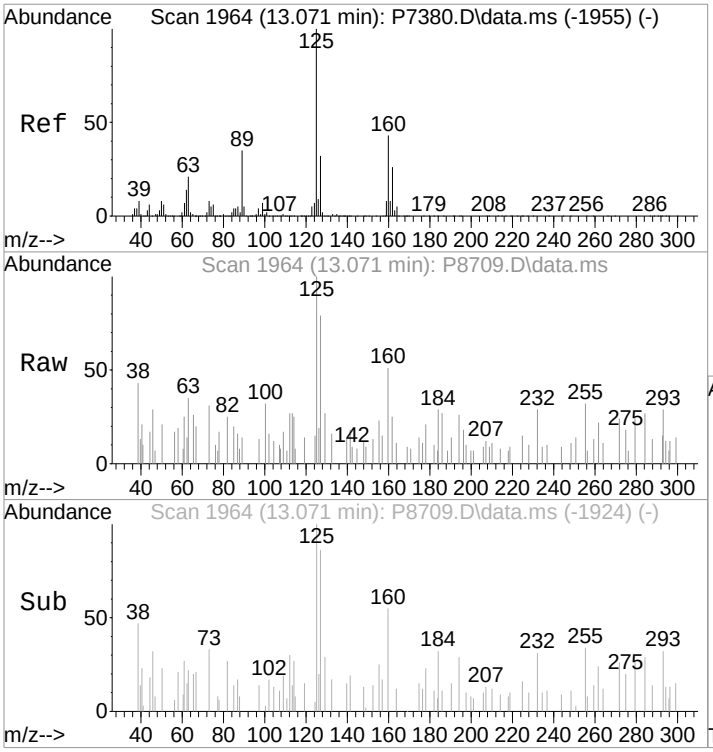


#72
Tetrachloroethene
Concen: 99.21 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion:164 Resp: 526880

Ion	Ratio	Lower	Upper
164	100		
166	128.1	106.8	146.8
129	88.0	69.7	109.7
131	92.9	61.1	101.1

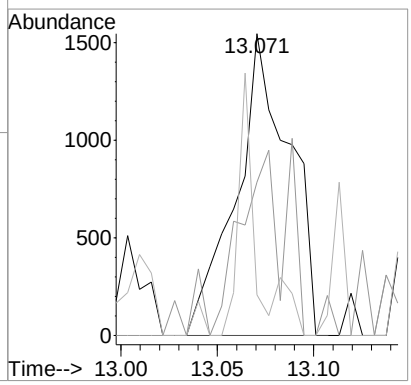


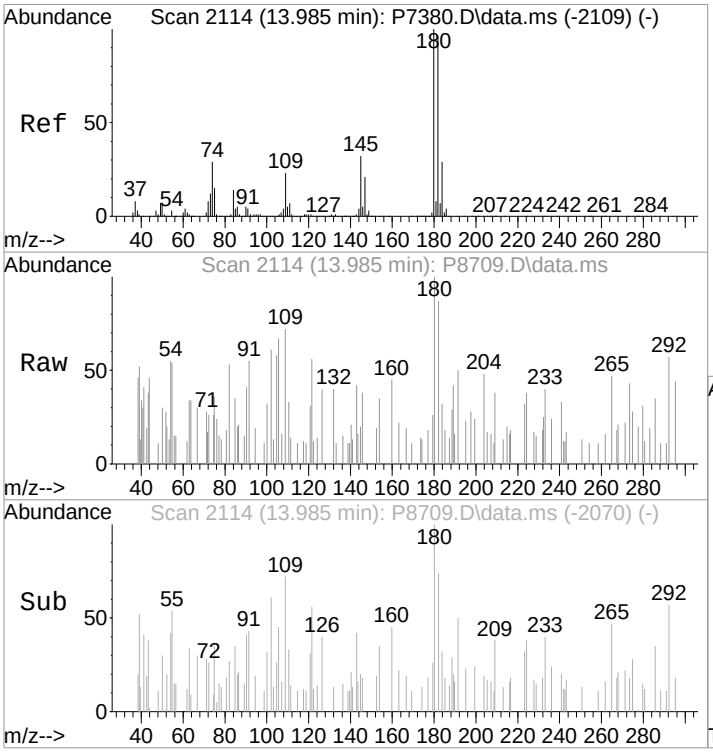


#112
Trielution Dichlorotoluene
Concen: 0.28 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion:125 Resp: 2957

Ion	Ratio	Lower	Upper
125	100		
160	50.8	34.6	51.8
89	13.5	28.0	42.0#

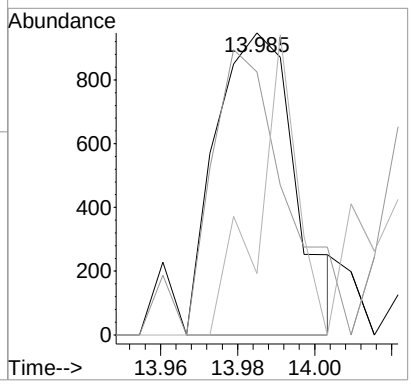


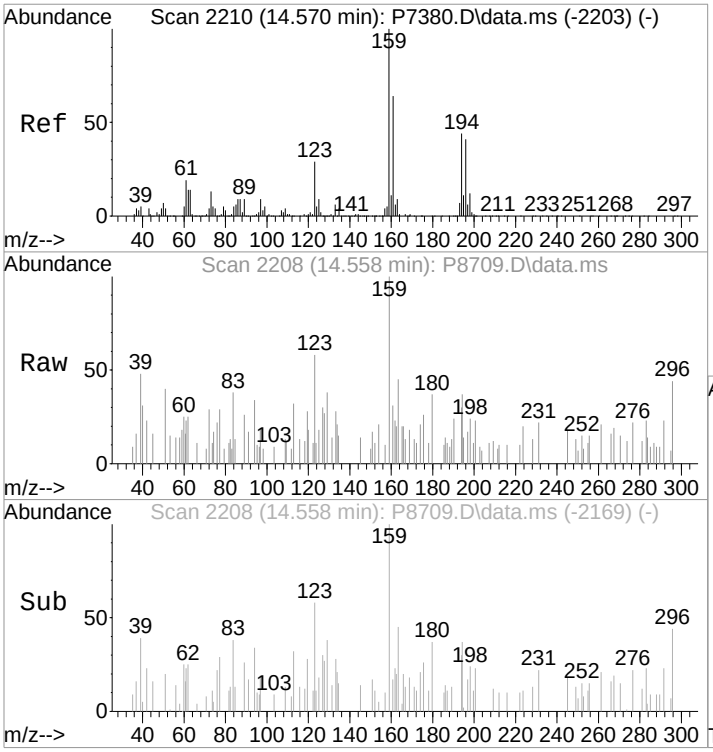


#118
1,2,3-Tclbenzene
Concen: 0.21 ppb
RT: 13.985 min Scan# 2114
Delta R.T. -0.000 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion:180 Resp: 1370

Ion	Ratio	Lower	Upper
180	100		
182	87.0	75.9	115.9
145	58.5	11.8	51.8#

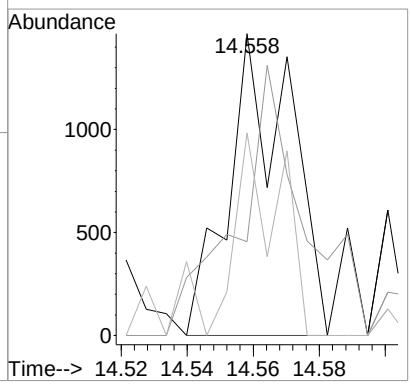


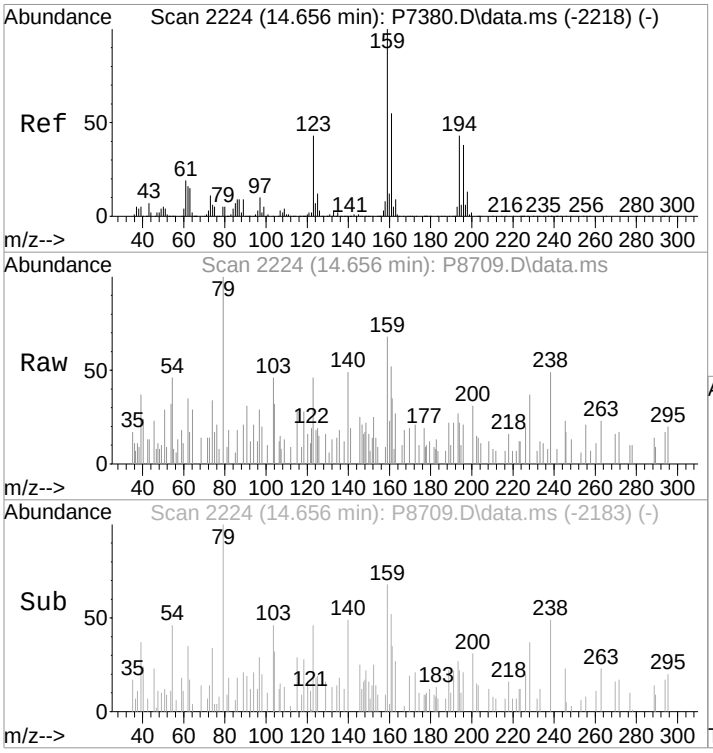


#119
2,4,5-Trichlorotolene
Concen: 0.37 ppb
RT: 14.558 min Scan# 2208
Delta R.T. -0.012 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion:159 Resp: 1905

Ion	Ratio	Lower	Upper
159	100		
161	31.0	51.0	76.4#
194	67.1	35.4	53.2#

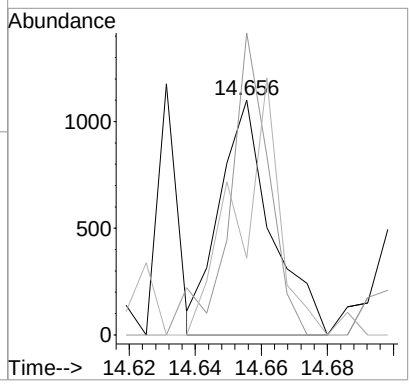




#120
2,3,6-Trichlorotoluene
Concen: 0.28 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P8709.D
Acq: 27 Mar 2017 1:23 pm

Tgt Ion:159 Resp: 1198

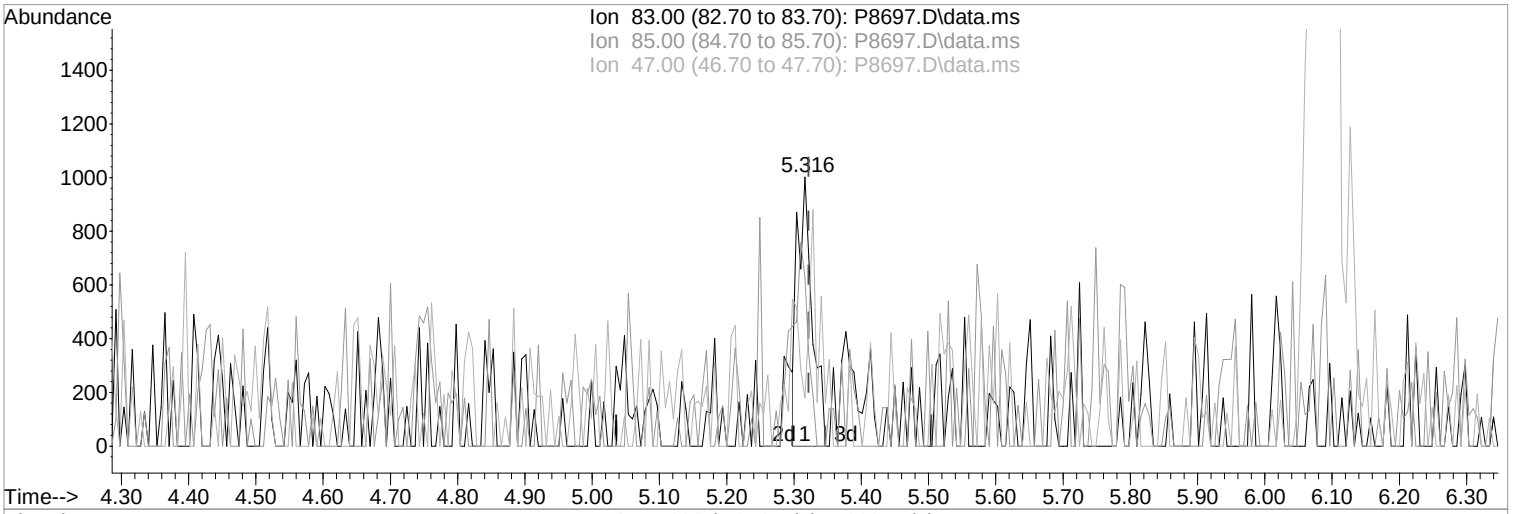
Ion	Ratio	Lower	Upper
159	100		
161	128.7	44.3	66.5#
194	47.1	34.8	52.2

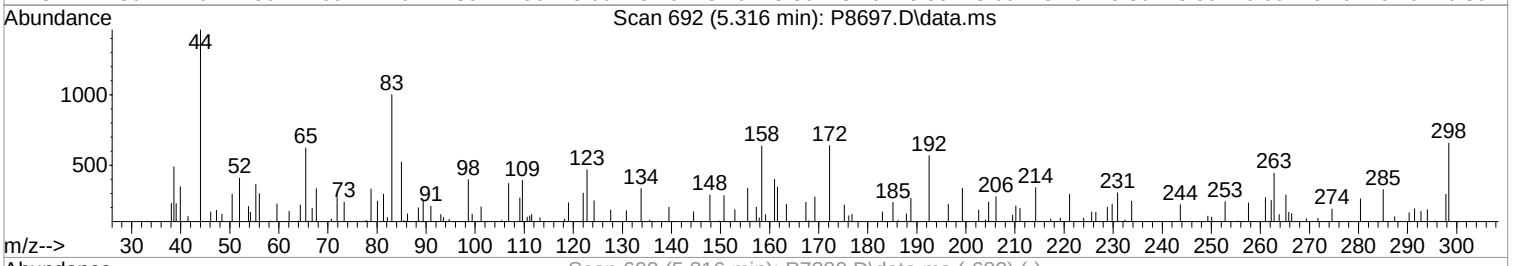


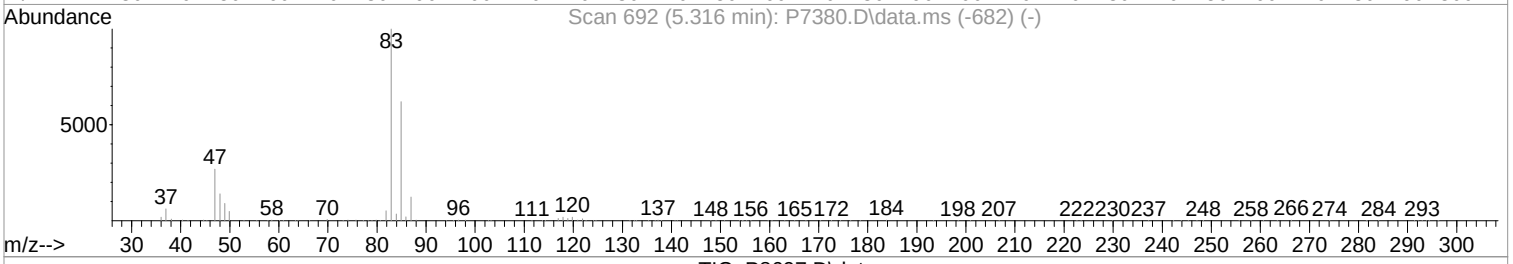
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8697.D
Acq On : 25 Mar 2017 7:12 am
Operator : K.Ruest
Sample : R1702492-010|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 27 09:41:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8697.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.14 ppb

response 1538

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	62.77
47.00	26.90	17.86
0.00	0.00	0.00

Manual Integration:

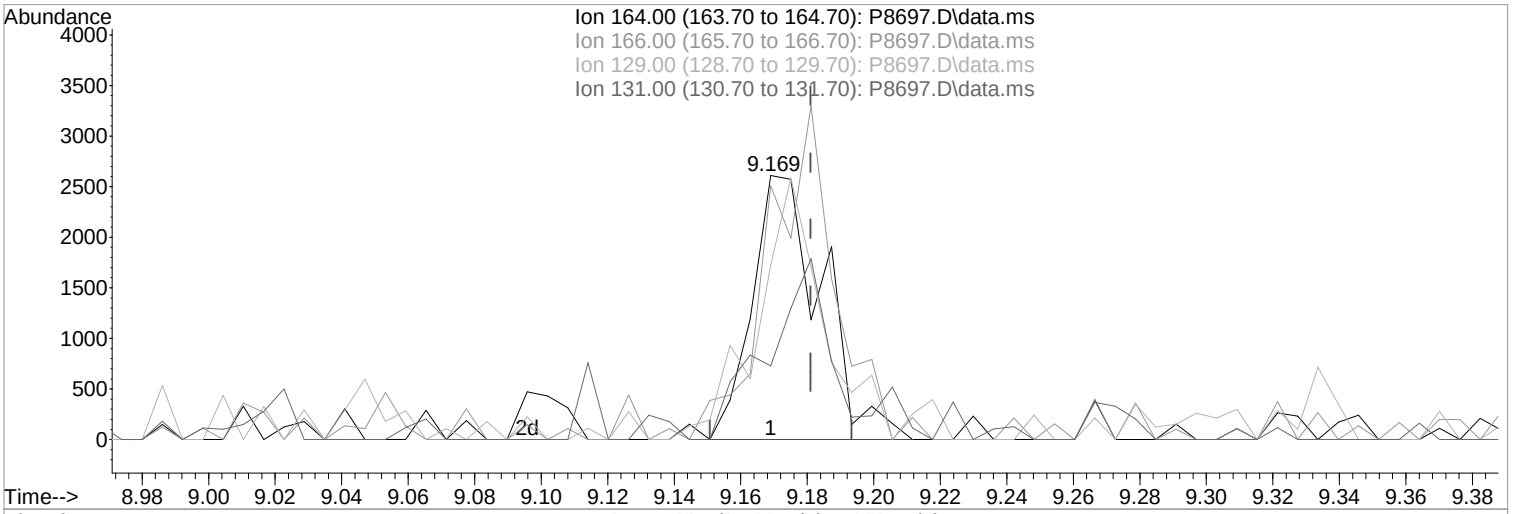
Before

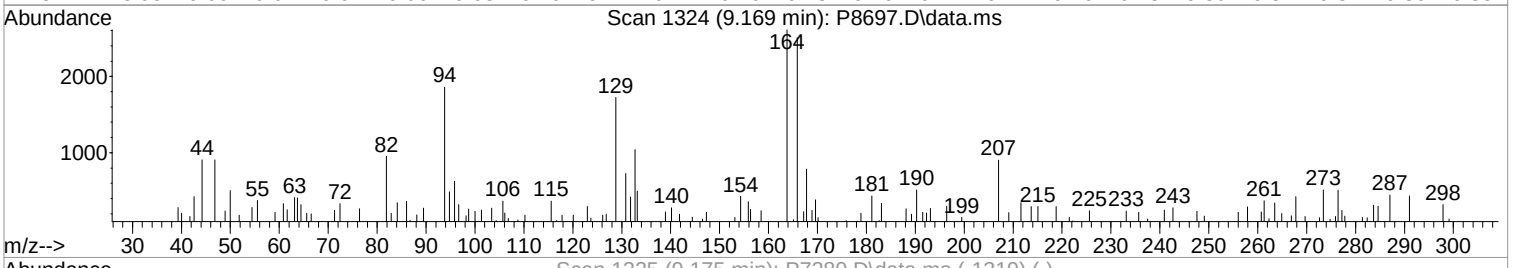
03/27/17

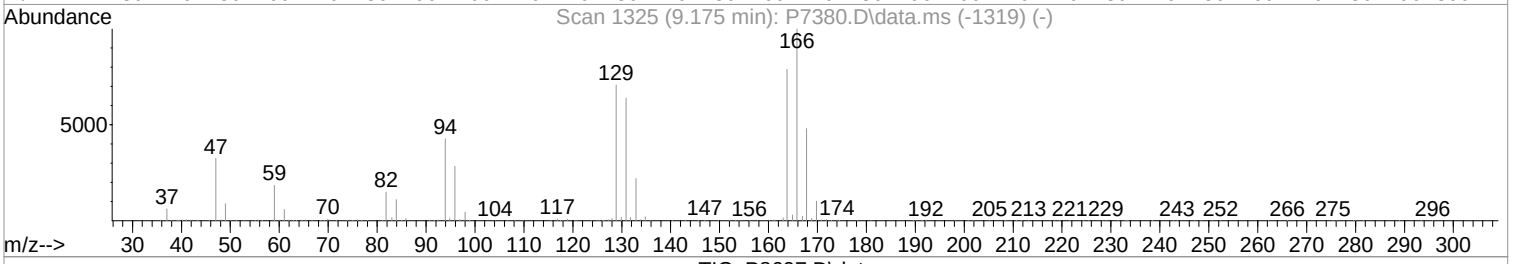
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8697.D
Acq On : 25 Mar 2017 7:12 am
Operator : K.Ruest
Sample : R1702492-010|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 27 09:41:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8697.D\data.ms

(72) Tetrachloroethene (P)

9.169min (-0.012) 0.76 ppb m

response 3837

Ion	Exp%	Act%
164.00	100	100
166.00	126.80	96.13#
129.00	89.70	66.03#
131.00	81.10	27.88#

Manual Integration:

After

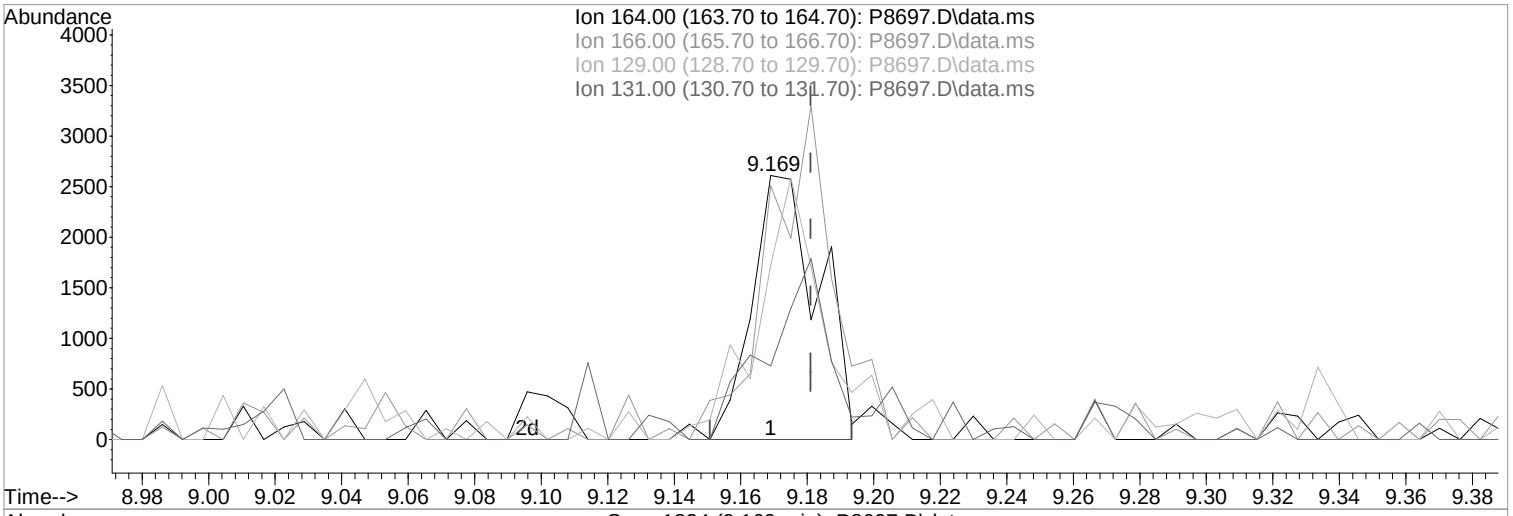
Split Peak

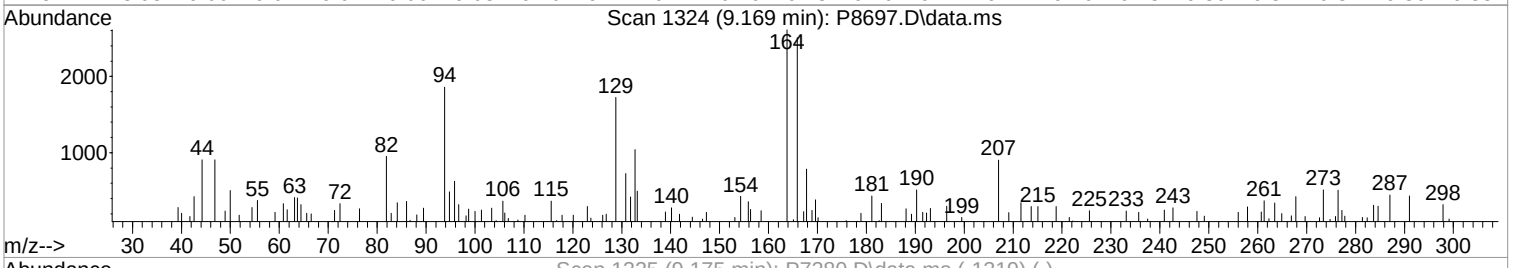
03/27/17

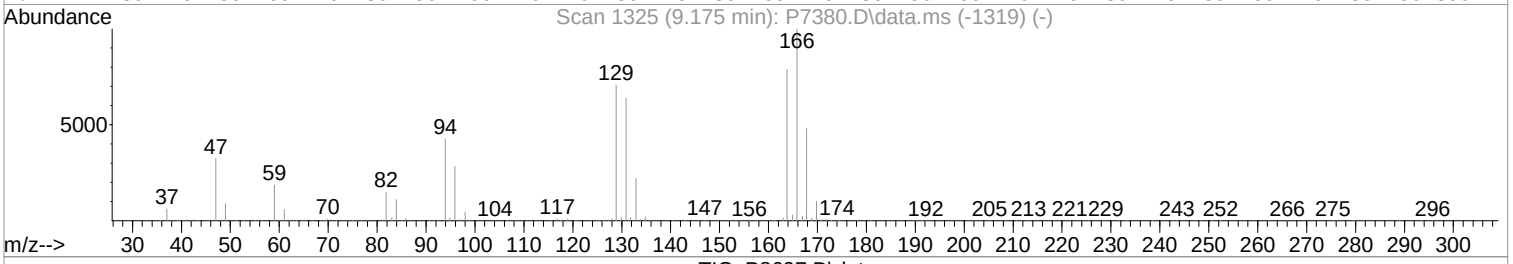
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8697.D
Acq On : 25 Mar 2017 7:12 am
Operator : K.Ruest
Sample : R1702492-010|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 27 09:41:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8697.D\data.ms

(72) Tetrachloroethene (P)

9.169min (-0.012) 0.73 ppb

response 3658

Ion	Exp%	Act%
164.00	100	100
166.00	126.80	96.13#
129.00	89.70	66.03#
131.00	81.10	27.88#

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8697.D
Acq On : 25 Mar 2017 7:12 am
Operator : K.Ruest
Sample : R1702492-010|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 27 15:49:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

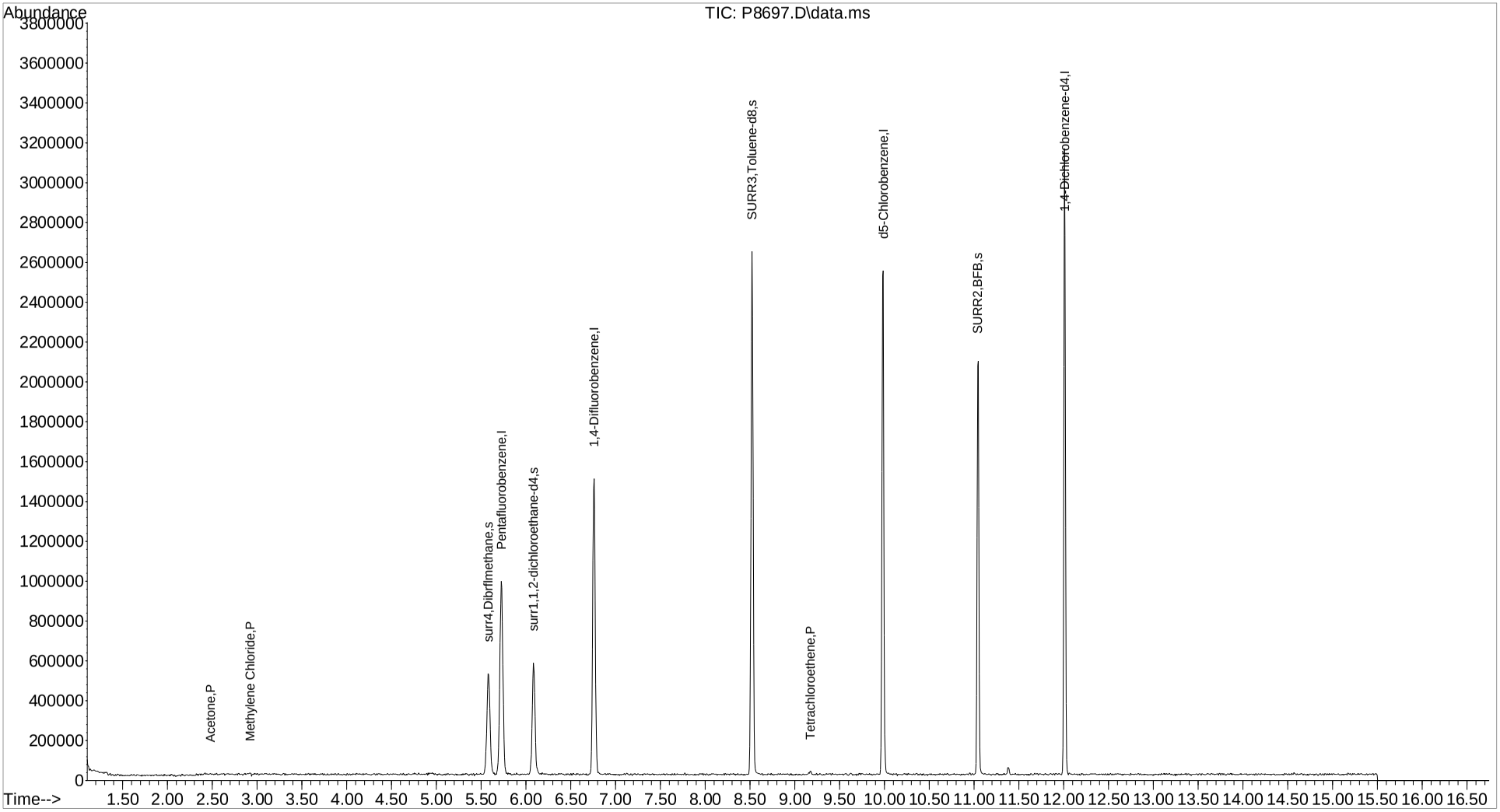
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.725	168	796873	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1270142	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1158646	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	582818	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.578	113	370624	54.08	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.16%				
48) surr1,1,2-dichloroetha...	6.084	65	428982	56.37	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 112.74%				
65) SURR3,Toluene-d8	8.523	98	1554975	54.88	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.76%				
70) SURR2,BFB	11.041	95	540802	49.25	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.50%				
Target Compounds							Qvalue
15) Acetone	2.475	43	3622	3.09	ppb		89
22) Methylene Chloride	2.920	84	1791	0.29	ppb	#	35
72) Tetrachloroethene	9.169	164	3837m	0.76	ppb		

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

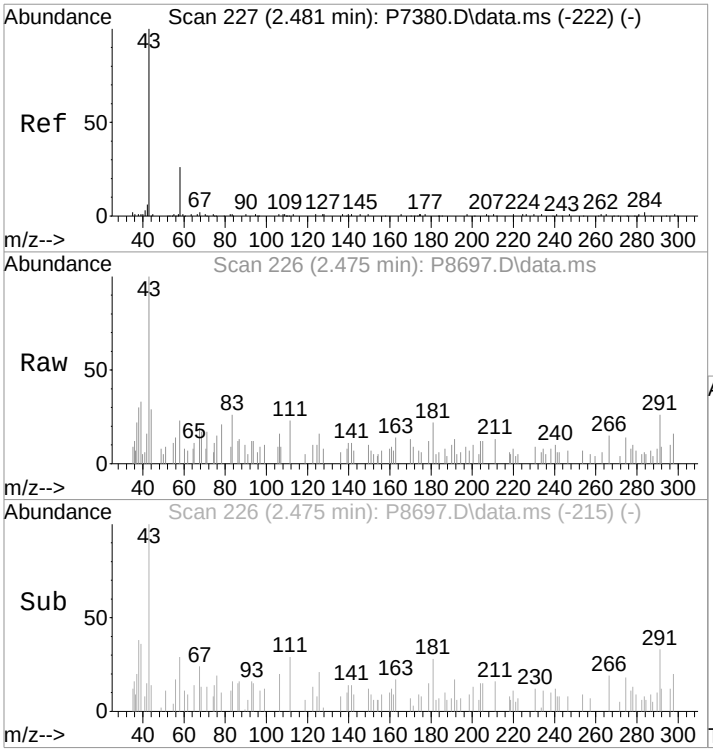
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8697.D
Acq On : 25 Mar 2017 7:12 am
Operator : K.Ruest
Sample : R1702492-010|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 27 15:49:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



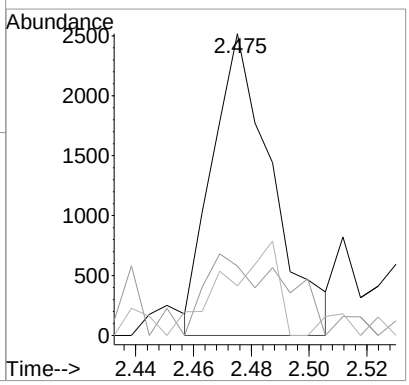
1st 03/27/17
2nd 03/28/17

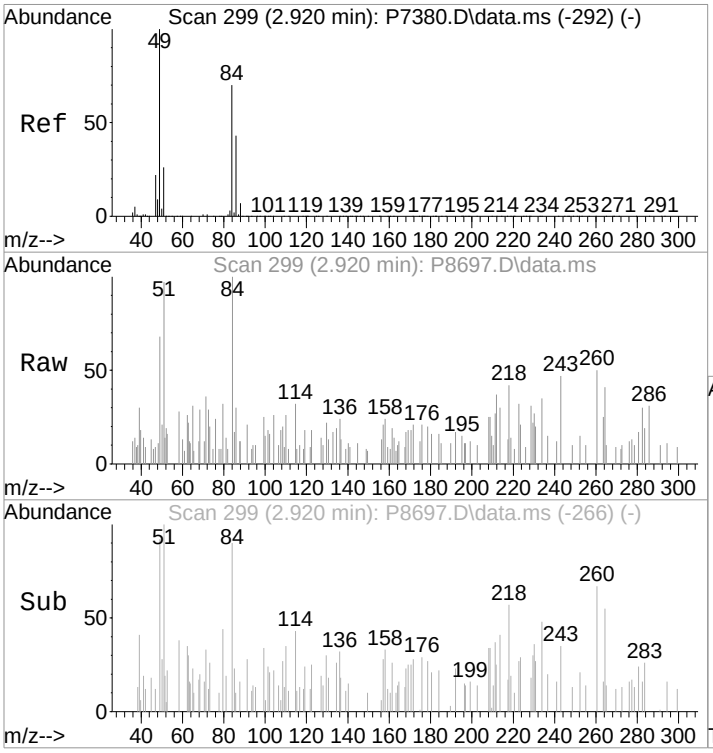


#15
Acetone
Concen: 3.09 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P8697.D
Acq: 25 Mar 2017 7:12 am

Tgt Ion: 43 Resp: 3622

Ion	Ratio	Lower	Upper
43	100		
58	23.0	6.2	46.2
42	16.4	0.0	26.9

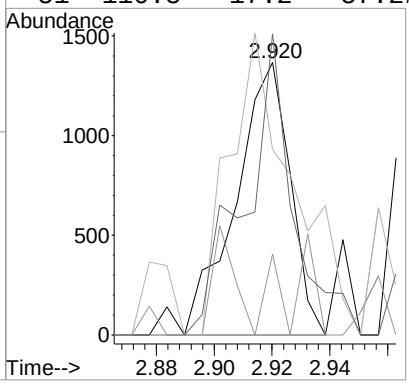


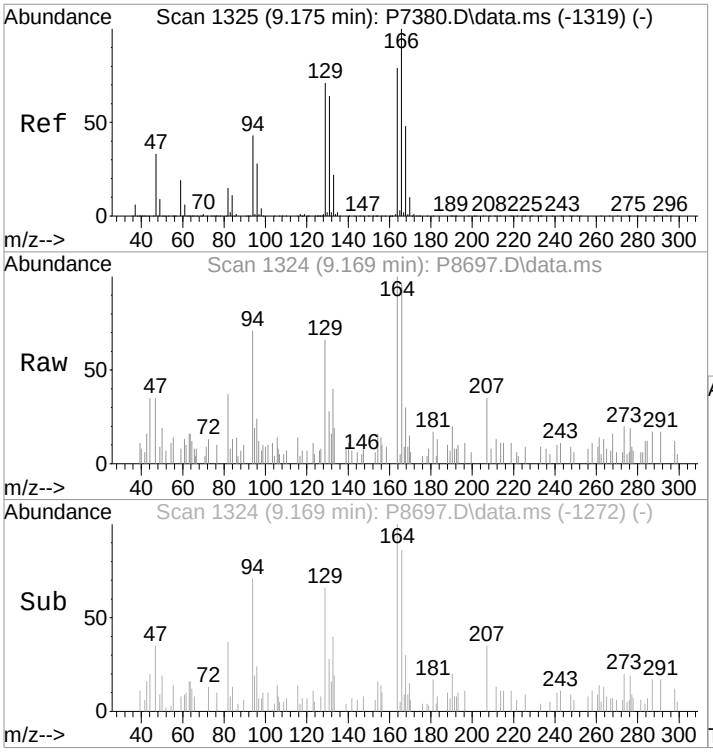


#22
Methylene Chloride
Concen: 0.29 ppb
RT: 2.920 min Scan# 299
Delta R.T. 0.000 min
Lab File: P8697.D
Acq: 25 Mar 2017 7:12 am

Tgt Ion: 84 Resp: 1791

Ion	Ratio	Lower	Upper
84	100		
86	29.7	41.5	81.5#
49	68.0	122.0	162.0#
51	110.5	17.2	57.2#

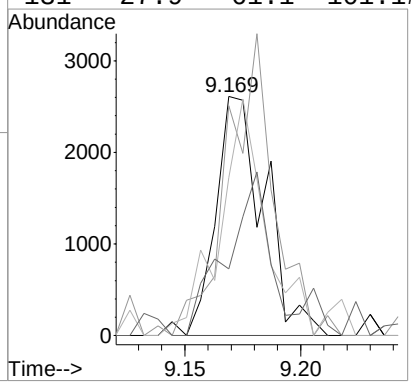




#72
Tetrachloroethene
Concen: 0.76 ppb m
RT: 9.169 min Scan# 1324
Delta R.T. -0.012 min
Lab File: P8697.D
Acq: 25 Mar 2017 7:12 am

Tgt Ion:164 Resp: 3837

Ion	Ratio	Lower	Upper
164	100		
166	96.1	106.8	146.8#
129	66.0	69.7	109.7#
131	27.9	61.1	101.1#

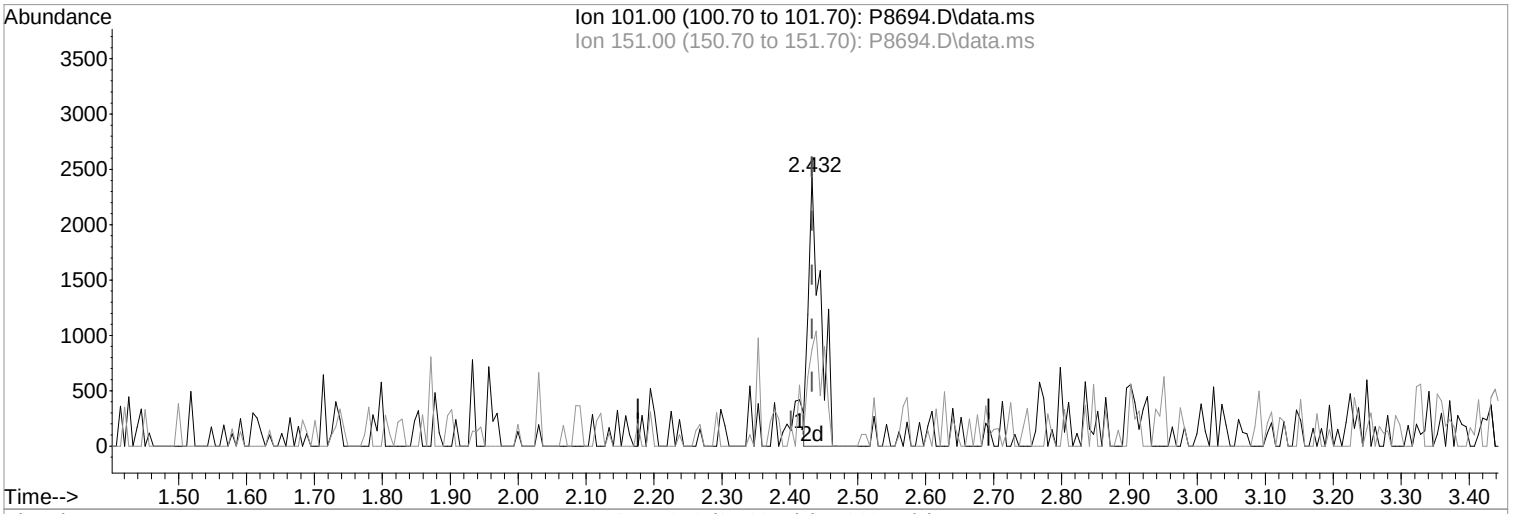


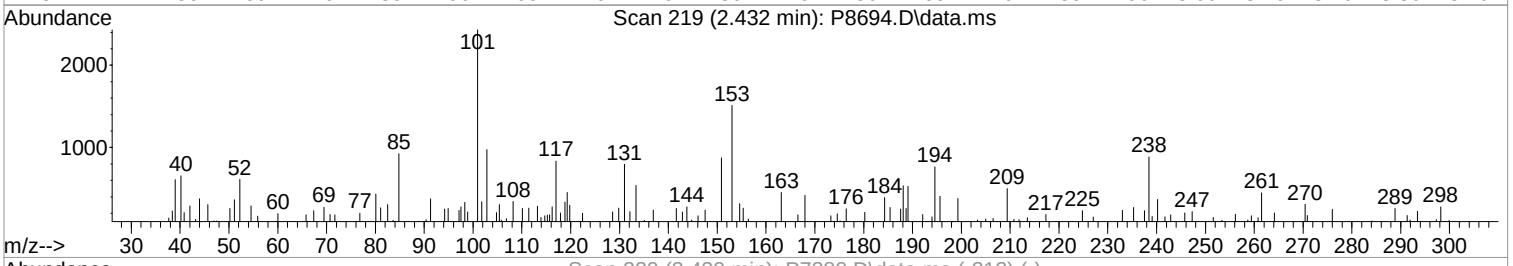
1st 03/27/17
2nd 03/28/17

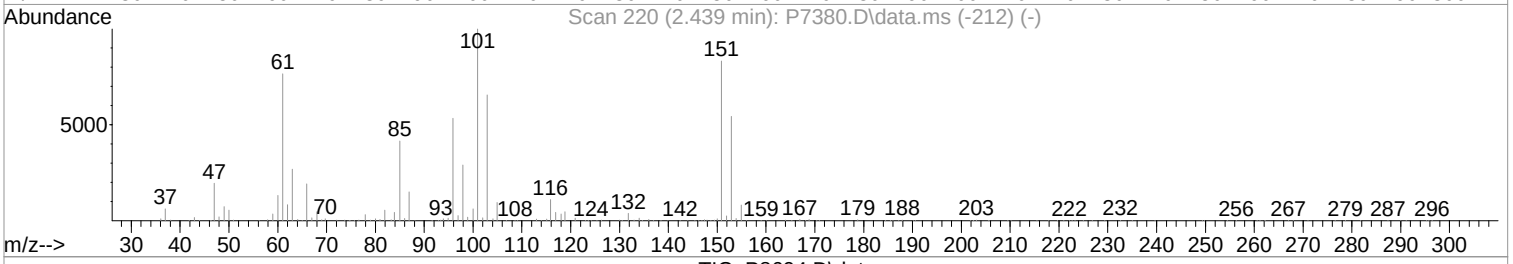
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8694.D
Acq On : 25 Mar 2017 5:42 am
Operator : K.Ruest
Sample : R1702492-011|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 27 09:38:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8694.D\data.ms

(14) Freon 113 (P)

2.432min (+0.000) 0.50 ppb m

response 3006

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	35.95#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

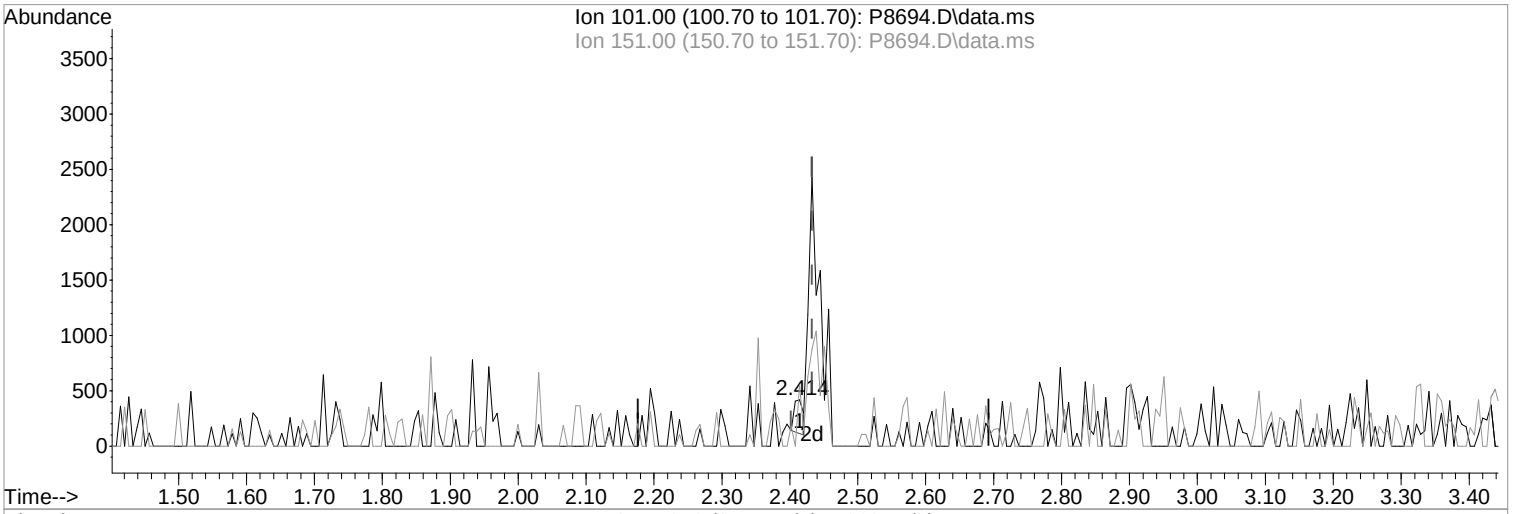
Peak not found.

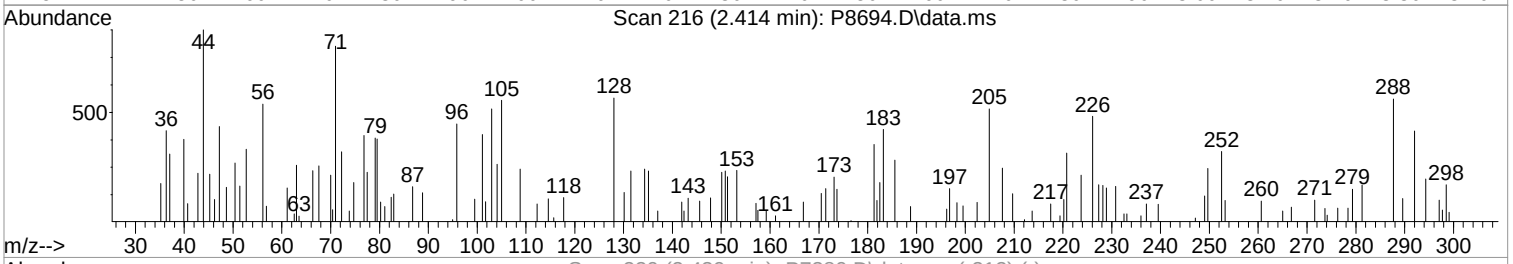
03/27/17

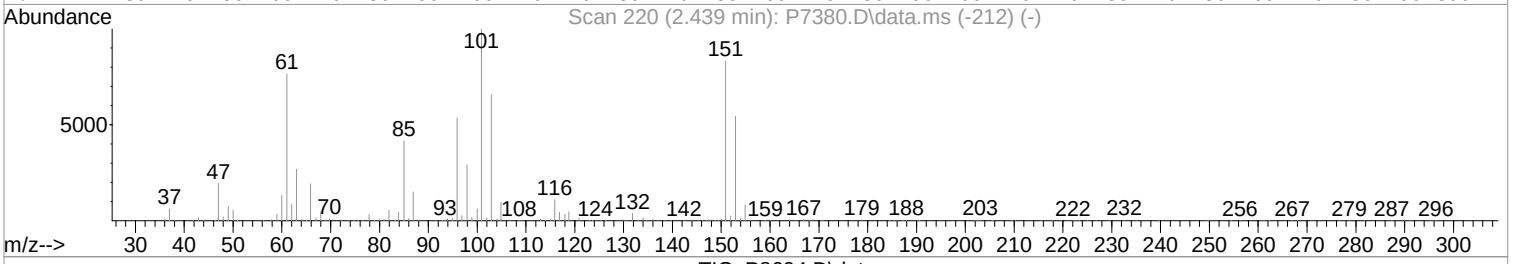
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8694.D
Acq On : 25 Mar 2017 5:42 am
Operator : K.Ruest
Sample : R1702492-011|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 27 09:38:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8694.D\data.ms

(14) Freon 113 (P)

2.414min (-0.018) 0.05 ppb

response 278

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	92.93
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

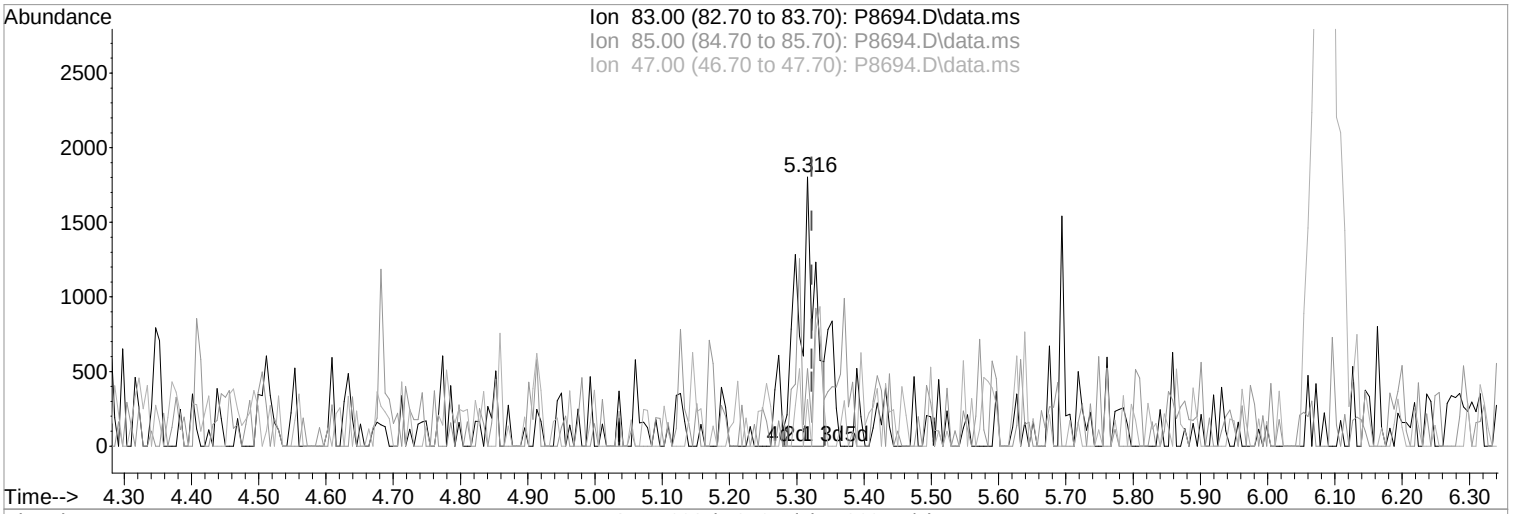
03/27/17

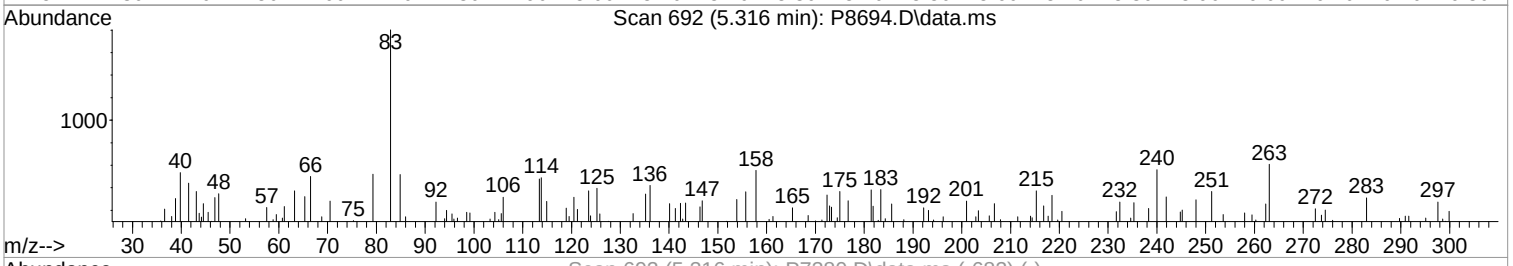
1st 03/27/17
2nd 03/28/17

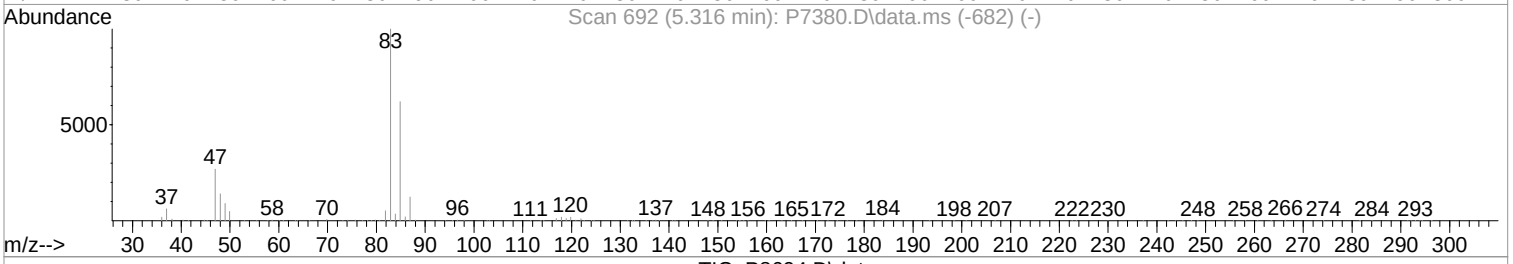
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8694.D
Acq On : 25 Mar 2017 5:42 am
Operator : K.Ruest
Sample : R1702492-011|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 27 09:38:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8694.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.30 ppb m

response 3133

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	28.73#
47.00	26.90	19.25
0.00	0.00	0.00

Manual Integration:

After

Split Peak

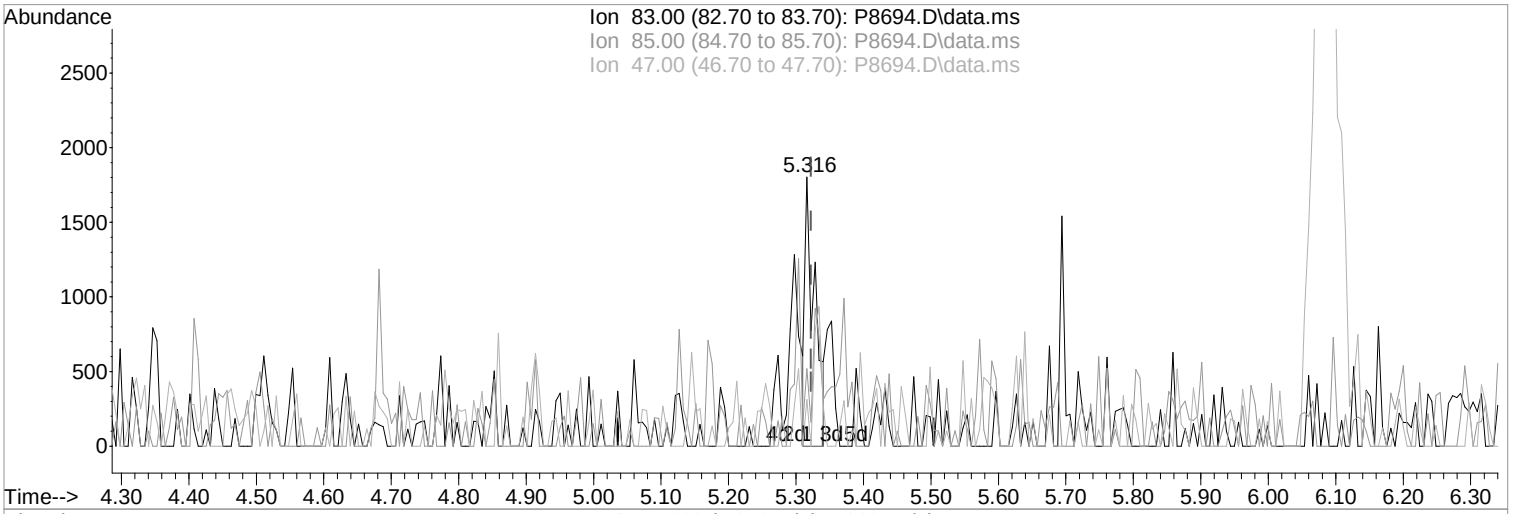
03/27/17

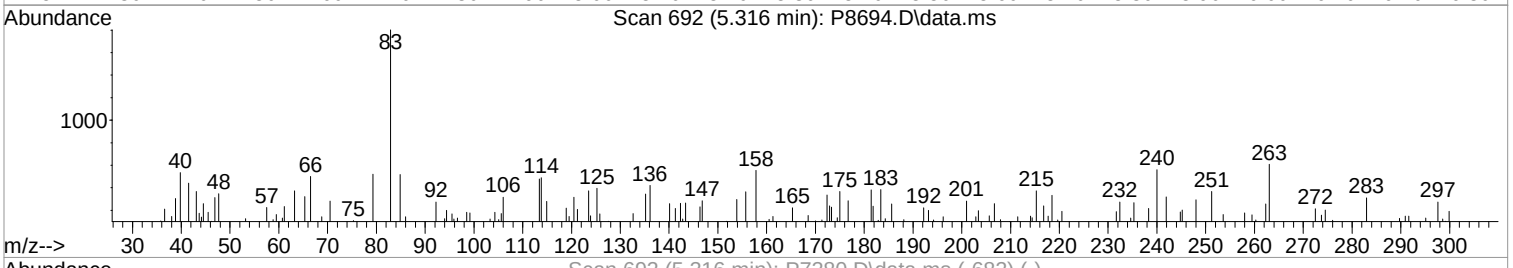
1st 03/27/17
2nd 03/28/17

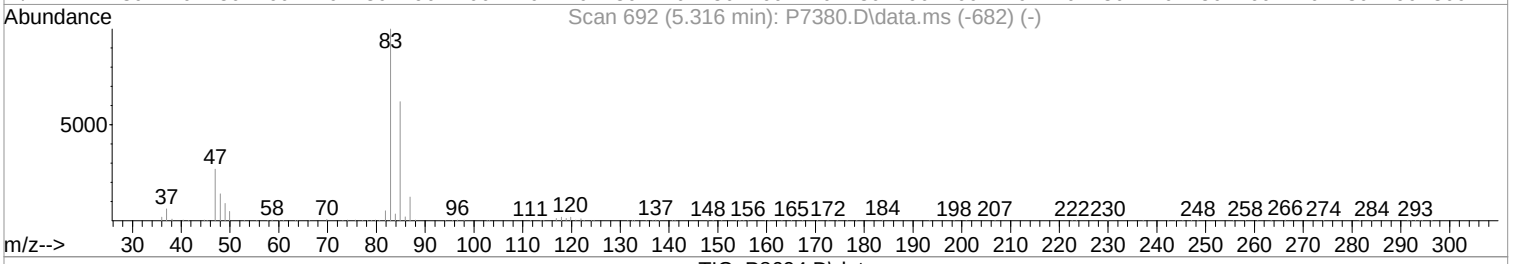
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8694.D
Acq On : 25 Mar 2017 5:42 am
Operator : K.Ruest
Sample : R1702492-011|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 27 09:38:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8694.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.17 ppb

response 1811

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	28.73#
47.00	26.90	36.61
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8694.D
Acq On : 25 Mar 2017 5:42 am
Operator : K.Ruest
Sample : R1702492-011|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

rpt 20

Quant Time: Mar 27 15:44:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.724	168	779556	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1286645	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1169249	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	595669	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	379754	54.70	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.40%				
48) surr1,1,2-dichloroetha...	6.084	65	440439	57.14	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 114.28%				
65) SURR3,Toluene-d8	8.523	98	1578767	55.00	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.00%				
70) SURR2,BFB	11.047	95	569418	51.19	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.38%				
Target Compounds							Qvalue
10) Freon 123a	2.219	67	1380	0.23	ppb	#	8
14) Freon 113	2.432	101	3006m	0.50	ppb		
15) Acetone	2.481	43	3434	3.00	ppb		90
18) Carbon Disulfide	2.634	76	9656	0.57	ppb		93
22) Methylene Chloride	2.908	84	1835	0.30	ppb	#	15
40) Chloroform	5.316	83	3133m	0.30	ppb		
72) Tetrachloroethene	9.175	164	1217060	239.97	ppb		95

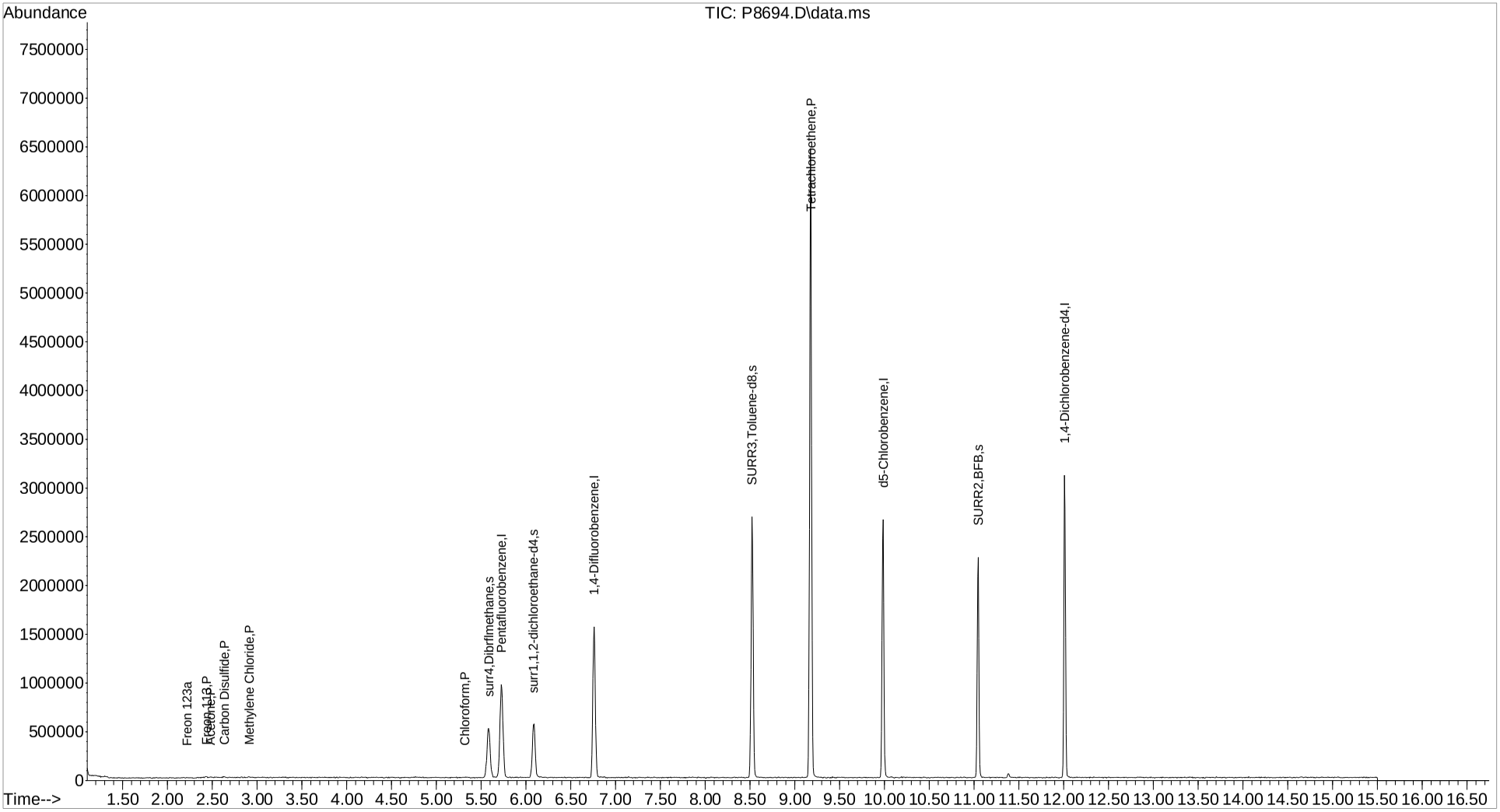
E-Over Calibration

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

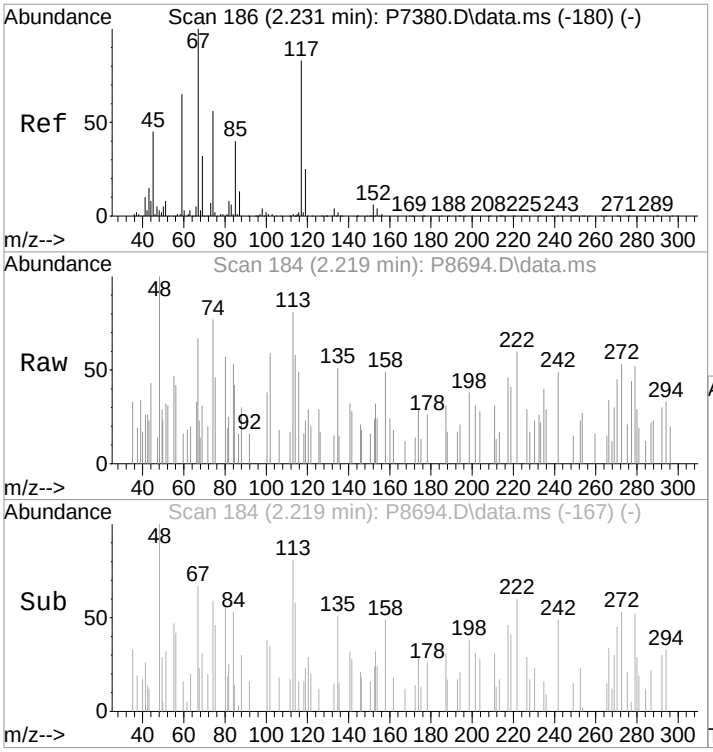
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8694.D
Acq On : 25 Mar 2017 5:42 am
Operator : K.Ruest
Sample : R1702492-011|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 27 15:44:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



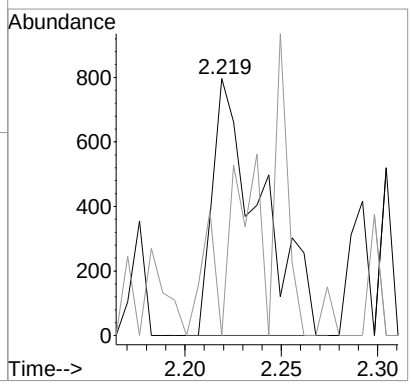
1st 03/27/17
2nd 03/28/17

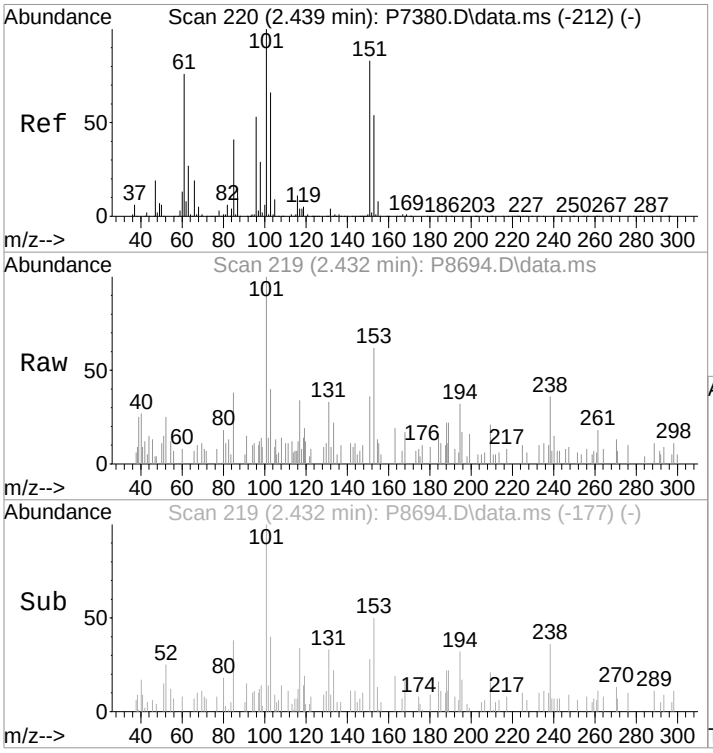


#10
Freon 123a
Concen: 0.23 ppb
RT: 2.219 min Scan# 184
Delta R.T. -0.012 min
Lab File: P8694.D
Acq: 25 Mar 2017 5:42 am

Tgt Ion: 67 Resp: 1380

Ion	Ratio	Lower	Upper
67	100		
117	0.0	63.4	103.4#

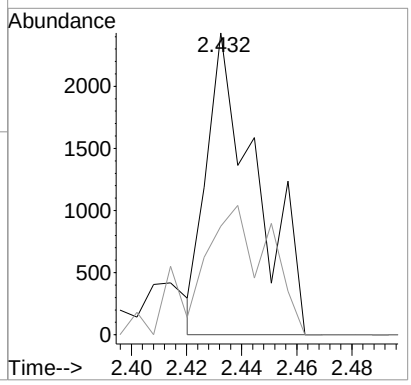


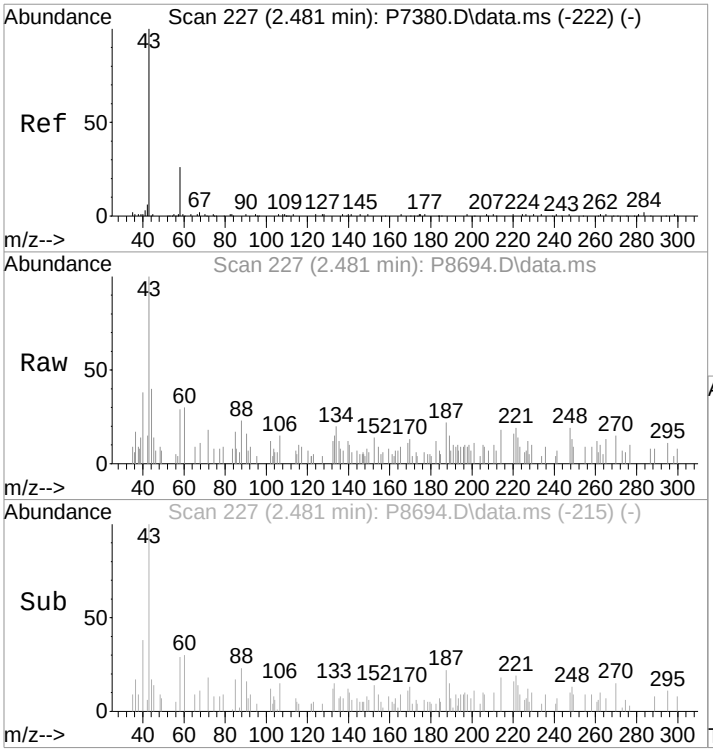


#14
Freon 113
Concen: 0.50 ppb m
RT: 2.432 min Scan# 219
Delta R.T. 0.000 min
Lab File: P8694.D
Acq: 25 Mar 2017 5:42 am

Tgt Ion:101 Resp: 3006

Ion	Ratio	Lower	Upper
101	100		
151	36.0	63.3	103.3#

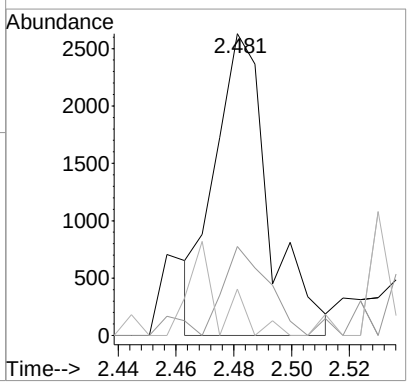


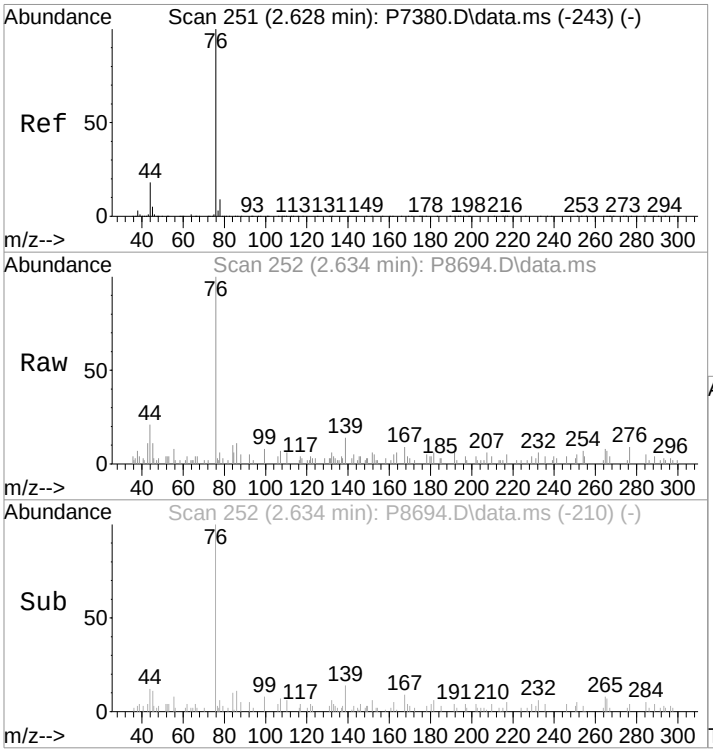


#15
Acetone
Concen: 3.00 ppb
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P8694.D
Acq: 25 Mar 2017 5:42 am

Tgt Ion: 43 Resp: 3434

Ion	Ratio	Lower	Upper
43	100		
58	29.5	6.2	46.2
42	15.4	0.0	26.9

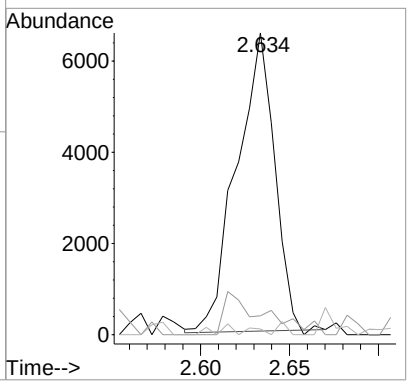


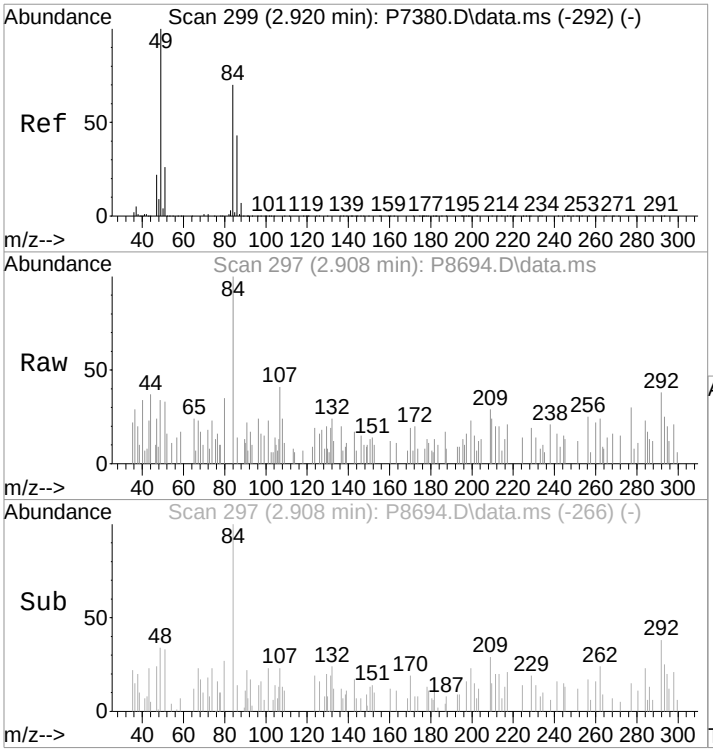


#18
Carbon Disulfide
Concen: 0.57 ppb
RT: 2.634 min Scan# 252
Delta R.T. 0.000 min
Lab File: P8694.D
Acq: 25 Mar 2017 5:42 am

Tgt Ion: 76 Resp: 9656

Ion	Ratio	Lower	Upper
76	100		
78	6.3	0.0	29.5
77	2.0	0.0	22.7

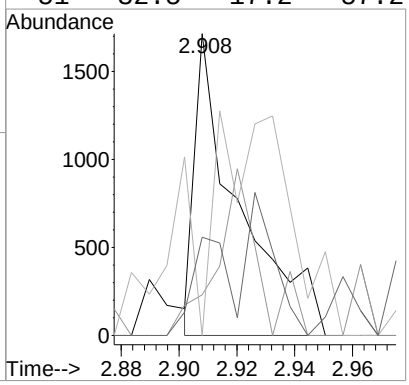


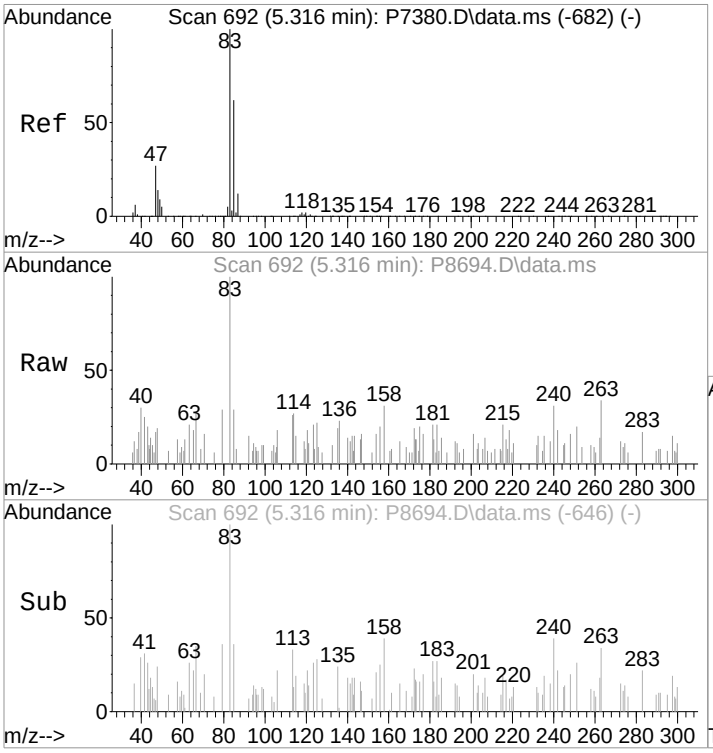


#22
Methylene Chloride
Concen: 0.30 ppb
RT: 2.908 min Scan# 297
Delta R.T. -0.012 min
Lab File: P8694.D
Acq: 25 Mar 2017 5:42 am

Tgt Ion: 84 Resp: 1835

Ion	Ratio	Lower	Upper
84	100		
86	13.5	41.5	81.5#
49	0.0	122.0	162.0#
51	32.5	17.2	57.2

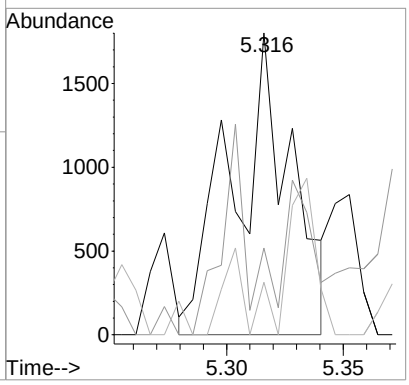


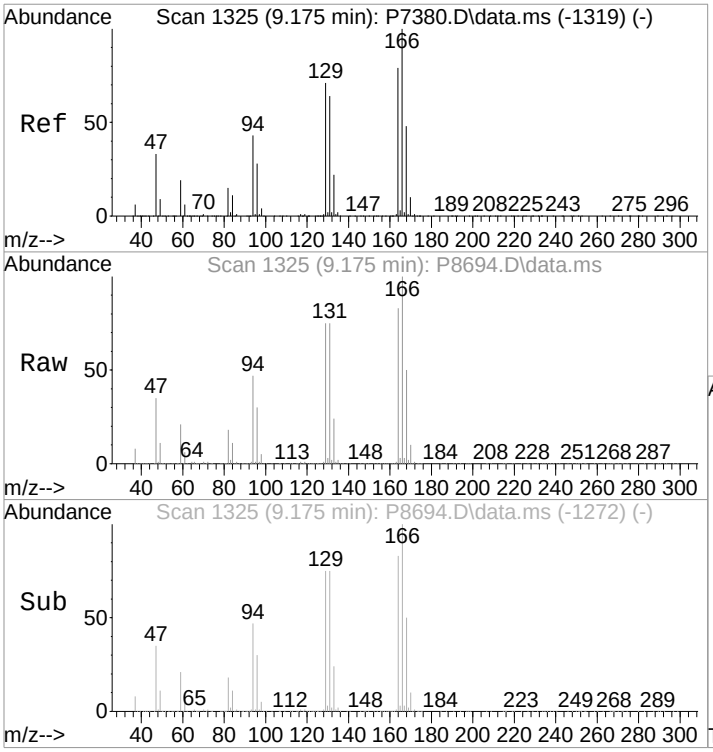


#40
Chloroform
Concen: 0.30 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.006 min
Lab File: P8694.D
Acq: 25 Mar 2017 5:42 am

Tgt Ion: 83 Resp: 3133

Ion	Ratio	Lower	Upper
83	100		
85	28.7	42.3	82.3#
47	19.2	6.9	46.9

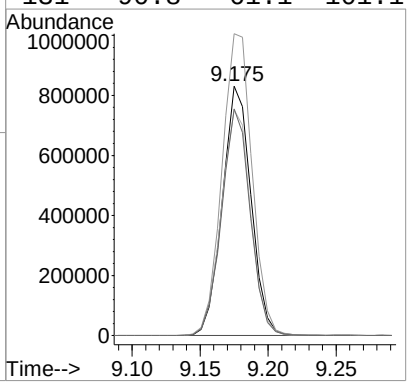




#72
Tetrachloroethene
Concen: 239.97 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8694.D
Acq: 25 Mar 2017 5:42 am

Tgt Ion:164 Resp: 1217060

Ion	Ratio	Lower	Upper
164	100		
166	121.0	106.8	146.8
129	90.5	69.7	109.7
131	90.8	61.1	101.1

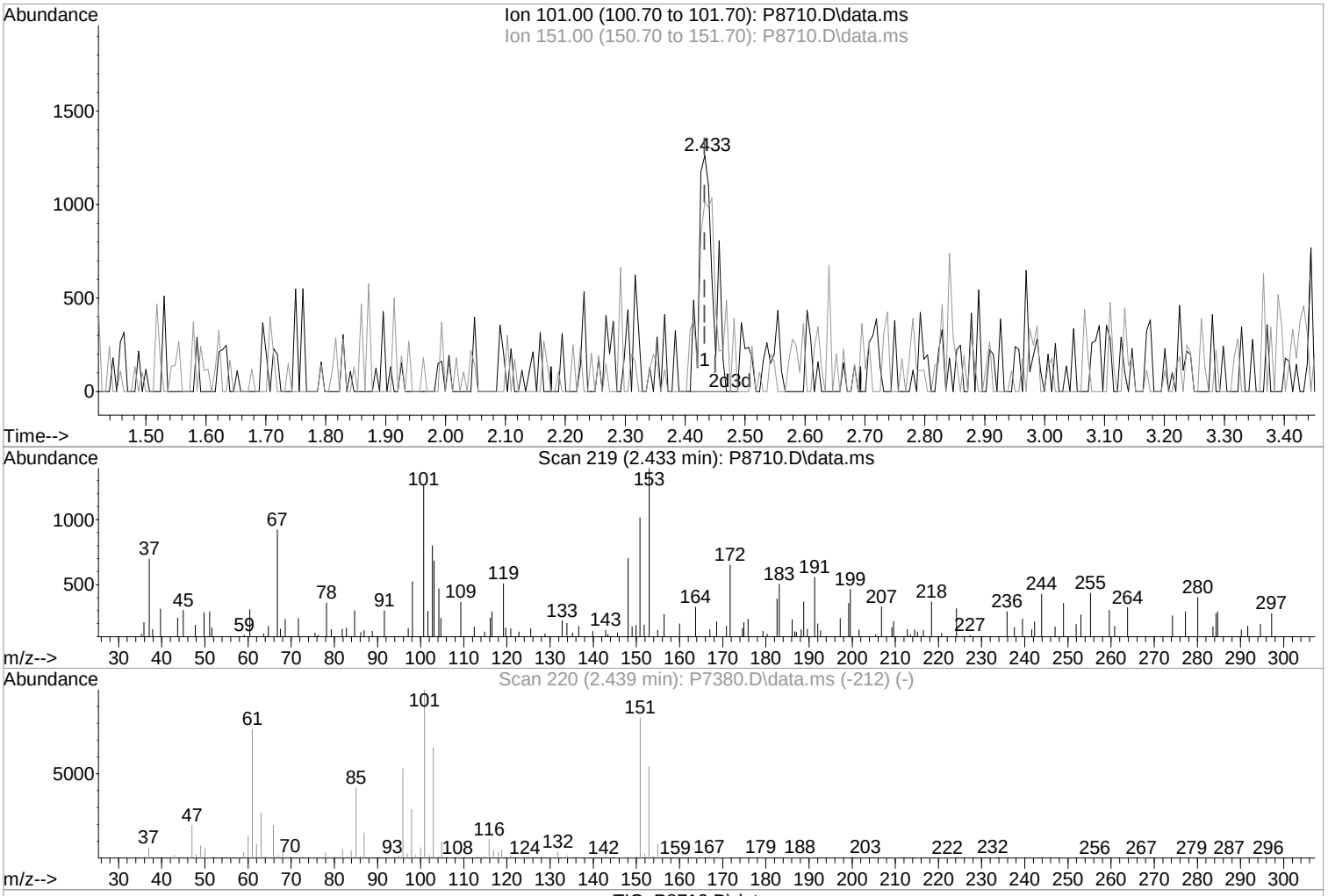


1st 03/28/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 14:25:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8710.D\data.ms

(14) Freon 113 (P)

2.433min (+0.000) 0.35 ppb m

response 2171

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	80.36
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

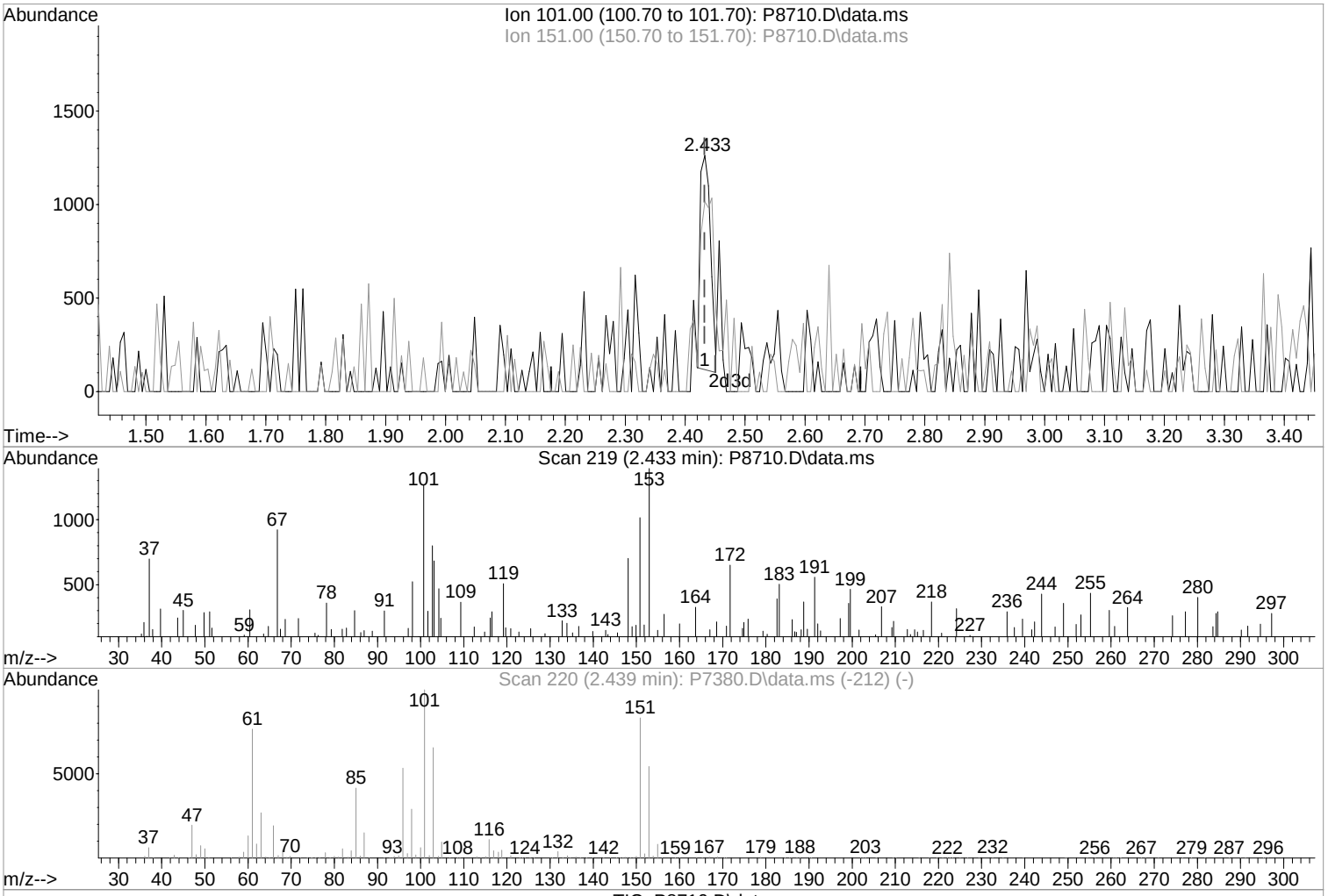
03/28/17

1st 03/28/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 14:25:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8710.D\data.ms

(14) Freon 113 (P)

2.433min (+0.000) 0.22 ppb

response 1381

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	65.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

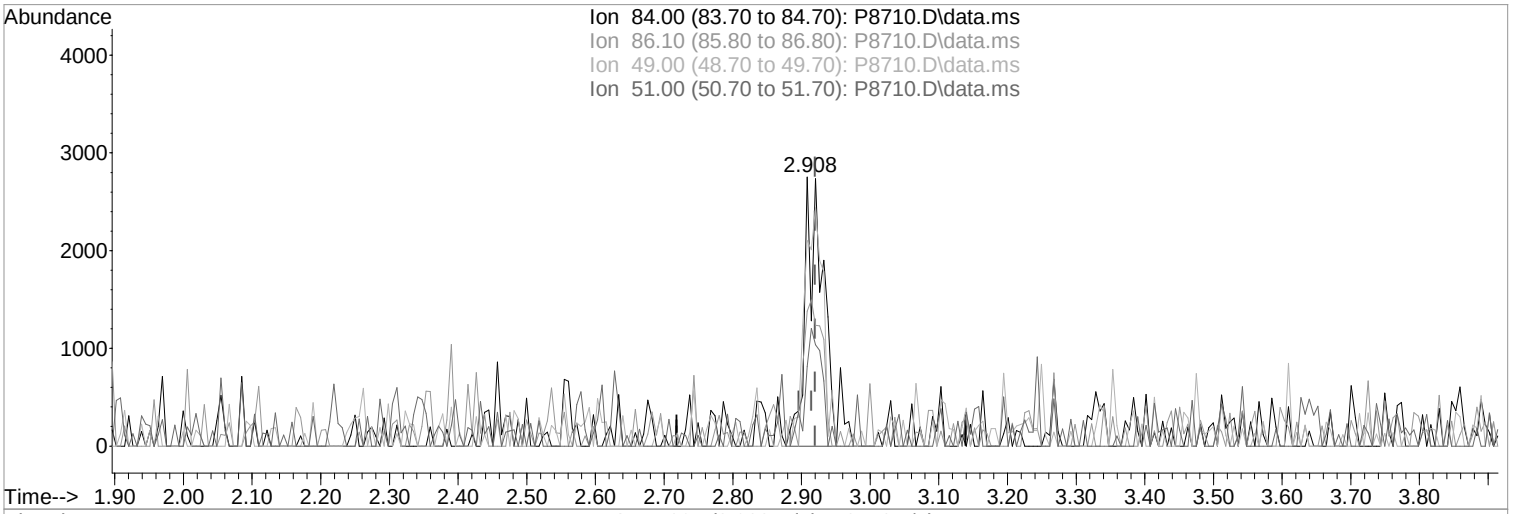
Before

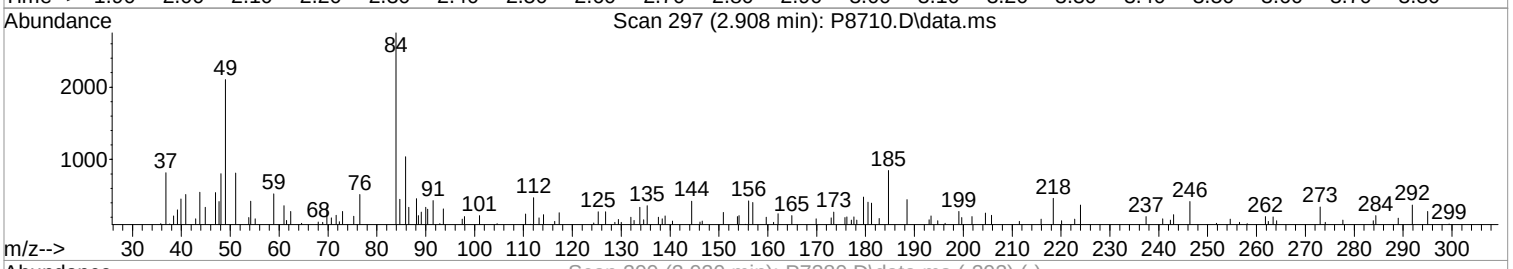
03/28/17

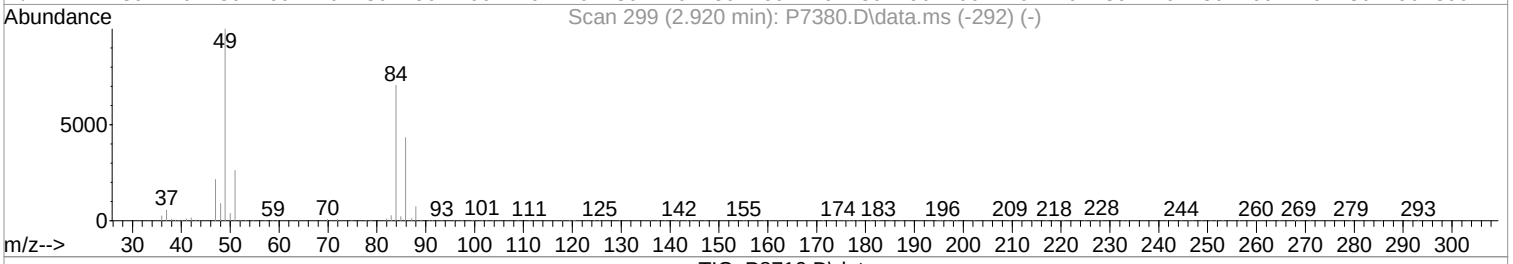
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 14:25:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8710.D\data.ms

(22) Methylene Chloride (P)

2.908min (-0.012) 0.77 ppb m

response 4844

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	37.74#
49.00	142.00	76.43#
51.00	37.20	29.53

Manual Integration:

After

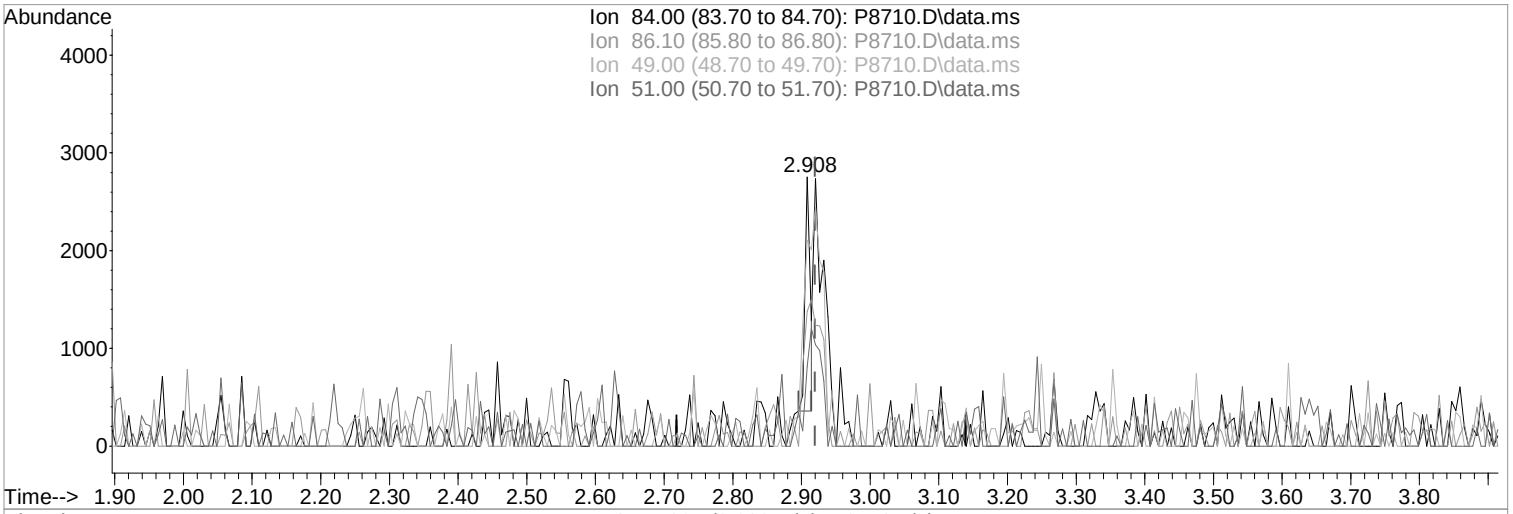
Split Peak

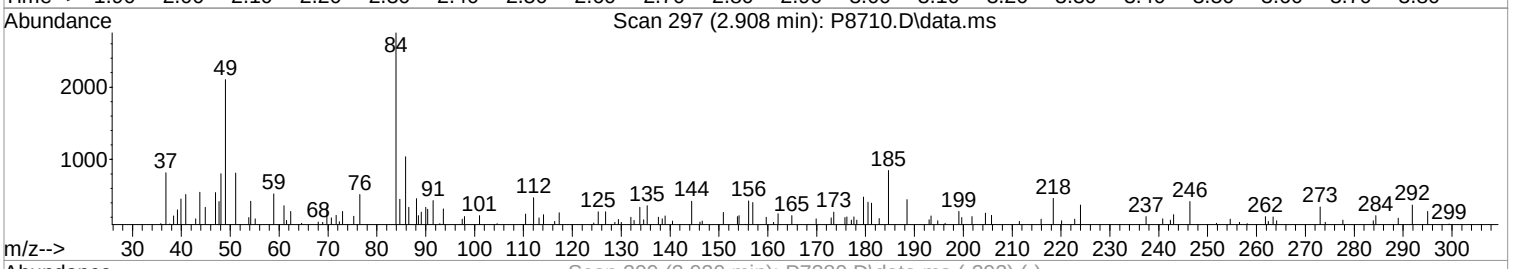
03/28/17

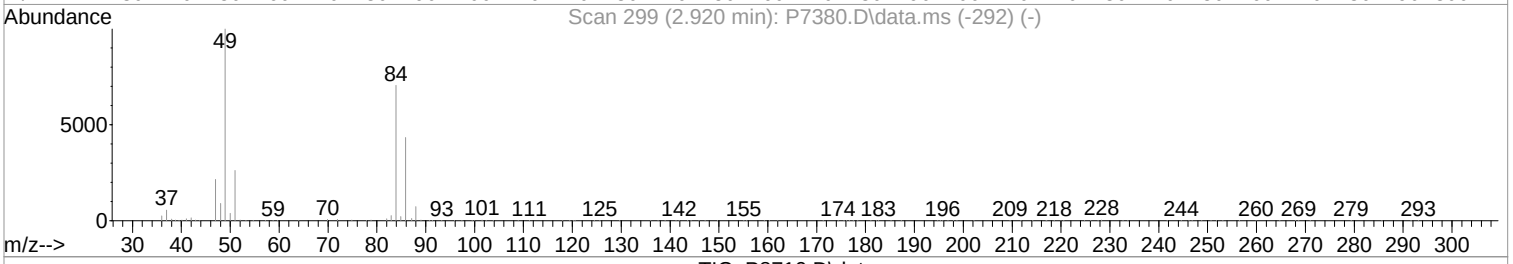
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 14:25:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8710.D\data.ms

(22) Methylene Chloride (P)

2.908min (-0.012) 0.20 ppb

response 1274

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	43.05
49.00	142.00	65.69#
51.00	37.20	25.38

Manual Integration:

Before

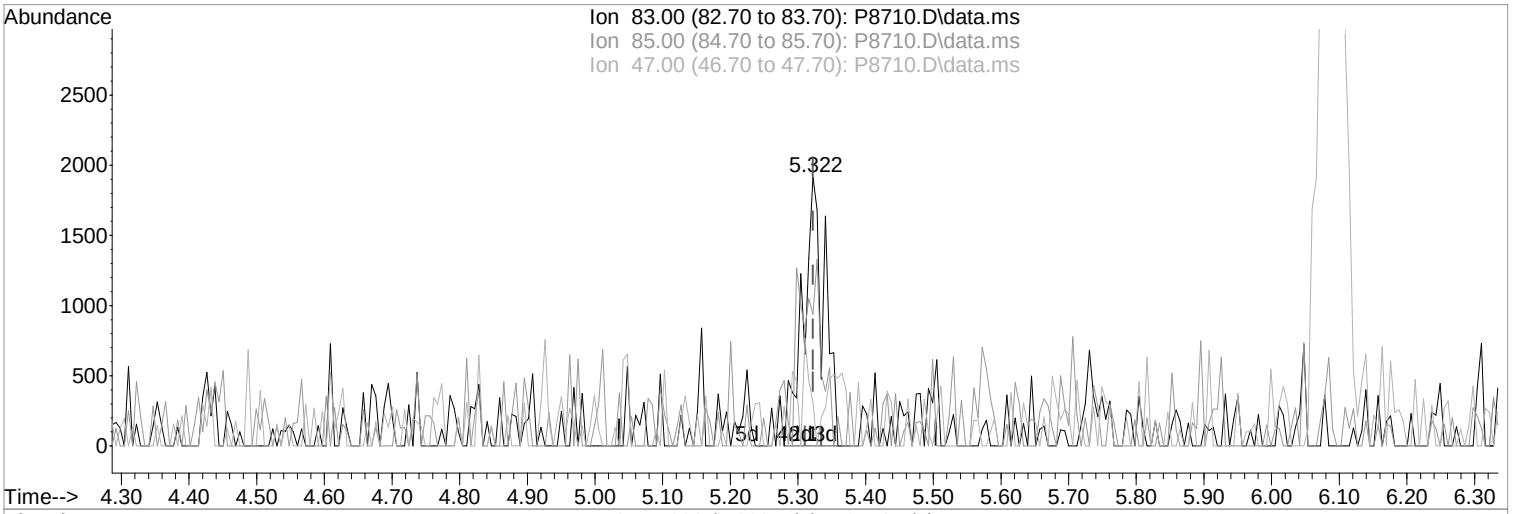
03/28/17

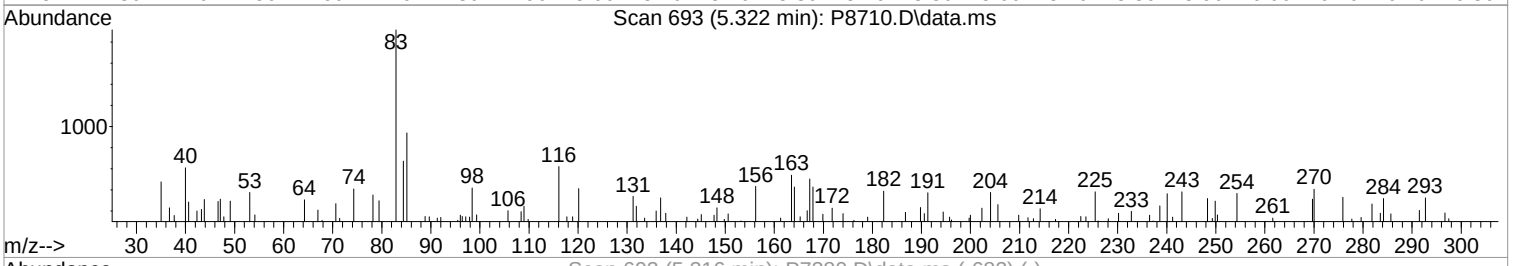
1st 03/28/17
2nd 03/28/17

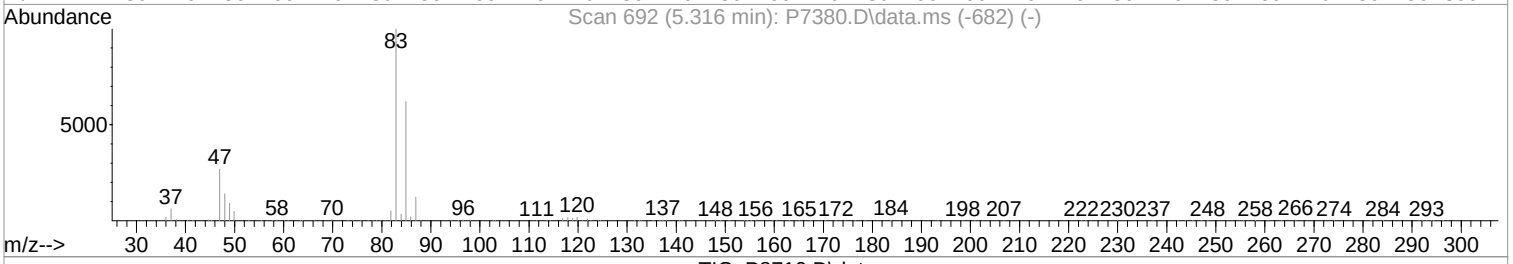
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 14:25:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8710.D\data.ms

(40) Chloroform (P)

5.322min (+0.000) 0.38 ppb m

response 4186

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	48.90
47.00	26.90	16.18
0.00	0.00	0.00

Manual Integration:

After

Split Peak

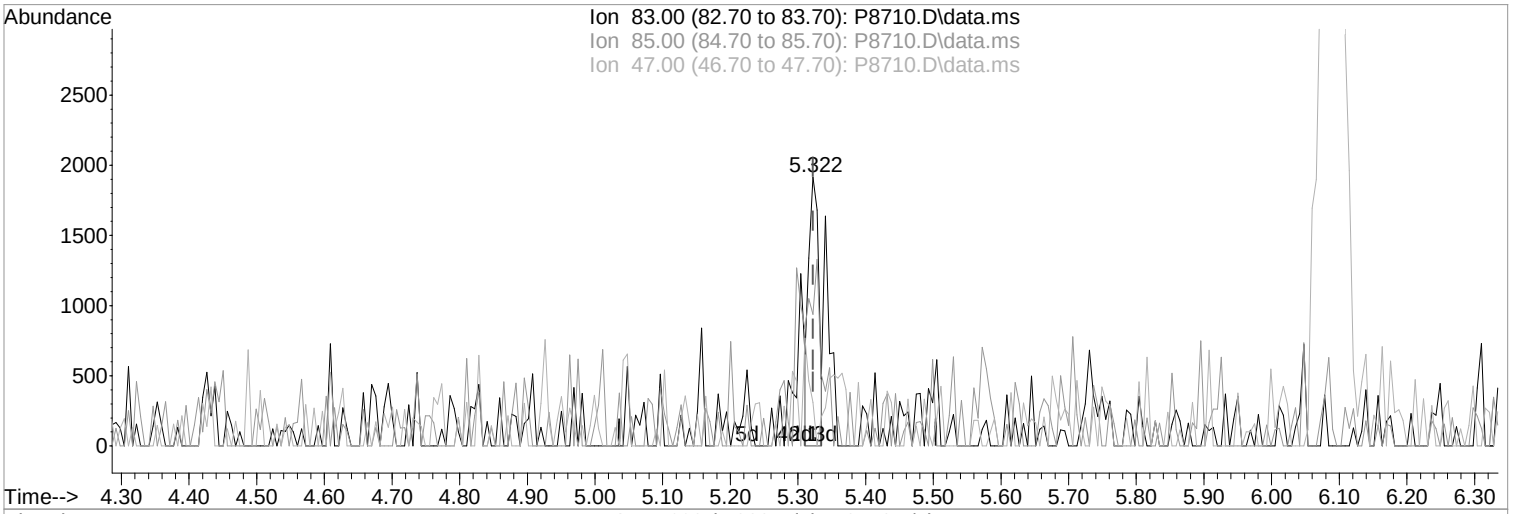
03/28/17

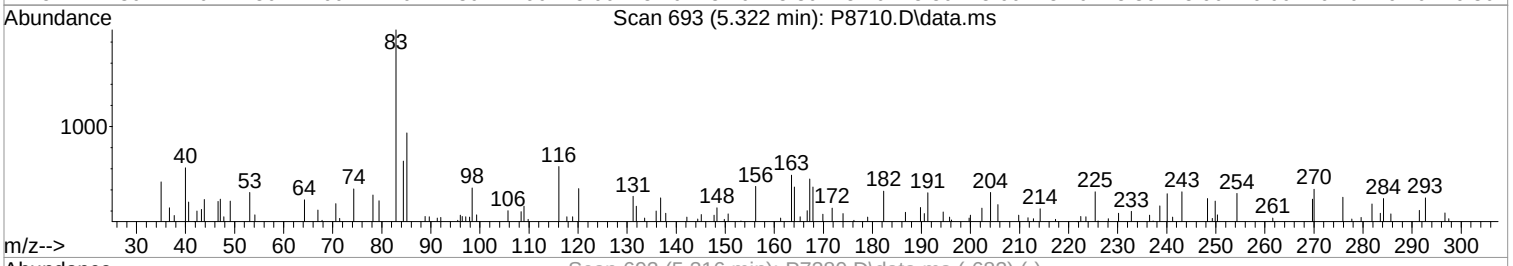
1st 03/28/17
2nd 03/28/17

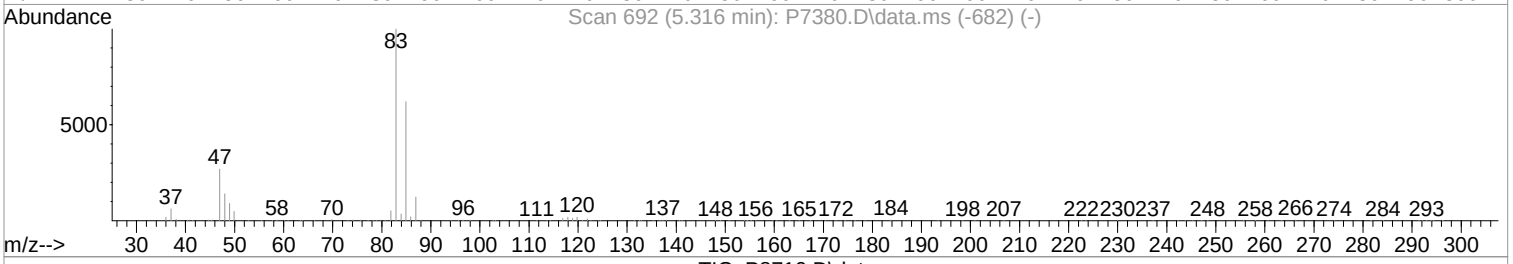
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 14:25:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8710.D\data.ms

(40) Chloroform (P)

5.322min (+0.000) 0.18 ppb

response 1981

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	48.90
47.00	26.90	16.18
0.00	0.00	0.00

Manual Integration:

Before

03/28/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

dil

Quant Time: Mar 28 11:52:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

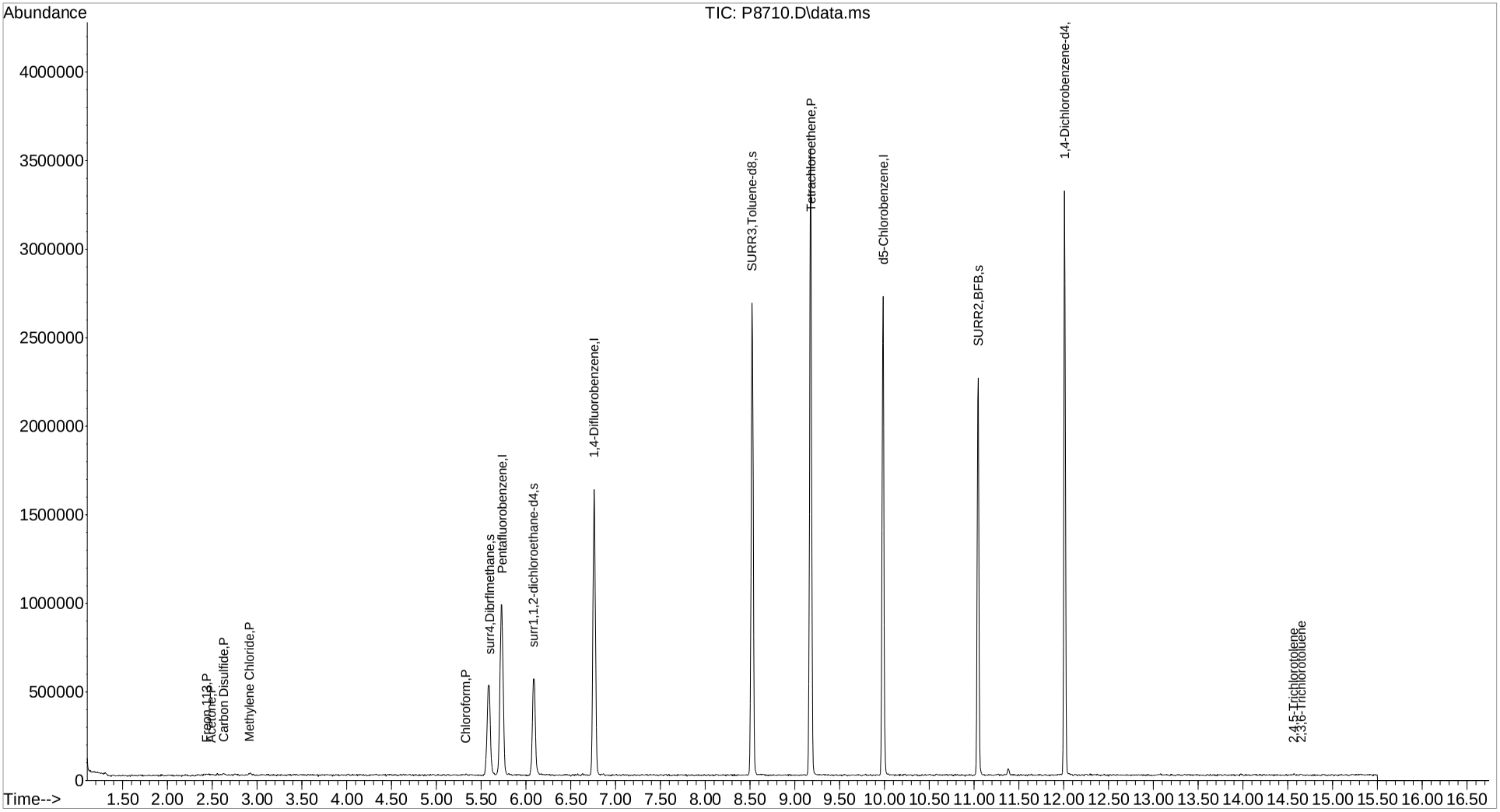
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	813262	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1316154	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1215470	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	617446	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.591	113	380912	53.63	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.26%				
48) surr1,1,2-dichloroetha...	6.084	65	439341	55.72	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.44%				
65) SURR3,Toluene-d8	8.523	98	1603159	54.60	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.20%				
70) SURR2,BFB	11.047	95	589040	51.77	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.54%				
Target Compounds							Qvalue
14) Freon 113	2.433	101	2171m	0.35	ppb		
15) Acetone	2.487	43	3854	3.23	ppb		78
18) Carbon Disulfide	2.628	76	9205	0.52	ppb		94
22) Methylene Chloride	2.908	84	4844m	0.77	ppb		
40) Chloroform	5.322	83	4186m	0.38	ppb		
72) Tetrachloroethene	9.175	164	671297	127.33	ppb		97
119) 2,4,5-Trichlorotolene	14.564	159	1348	0.26	ppb	#	85
120) 2,3,6-Trichlorotoluene	14.650	159	1712	0.40	ppb	#	67

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

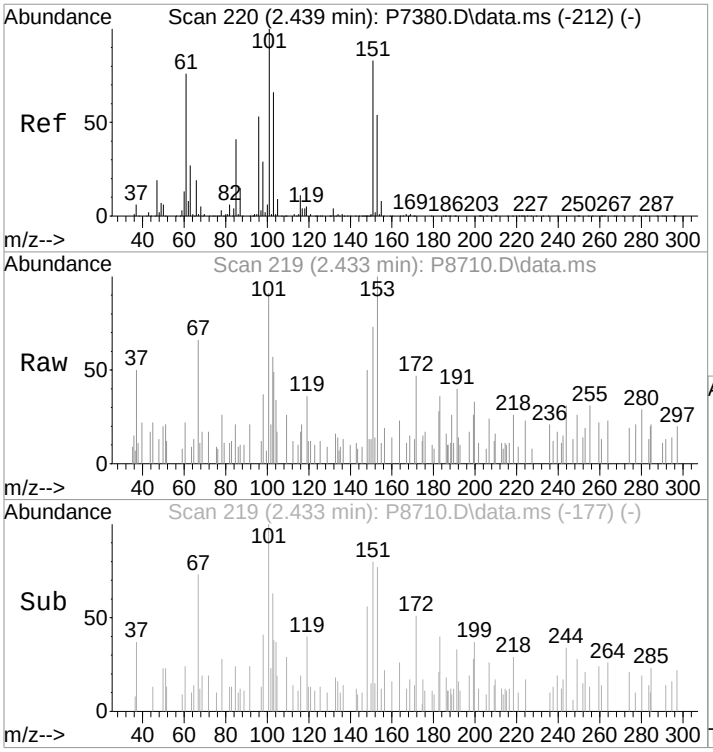
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8710.D
Acq On : 27 Mar 2017 1:53 pm
Operator : K.Ruest
Sample : R1702492-011|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 28 11:52:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



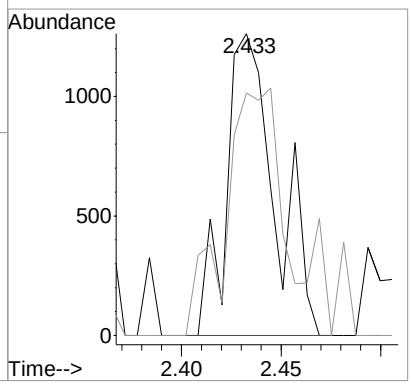
1st 03/28/17
2nd 03/28/17

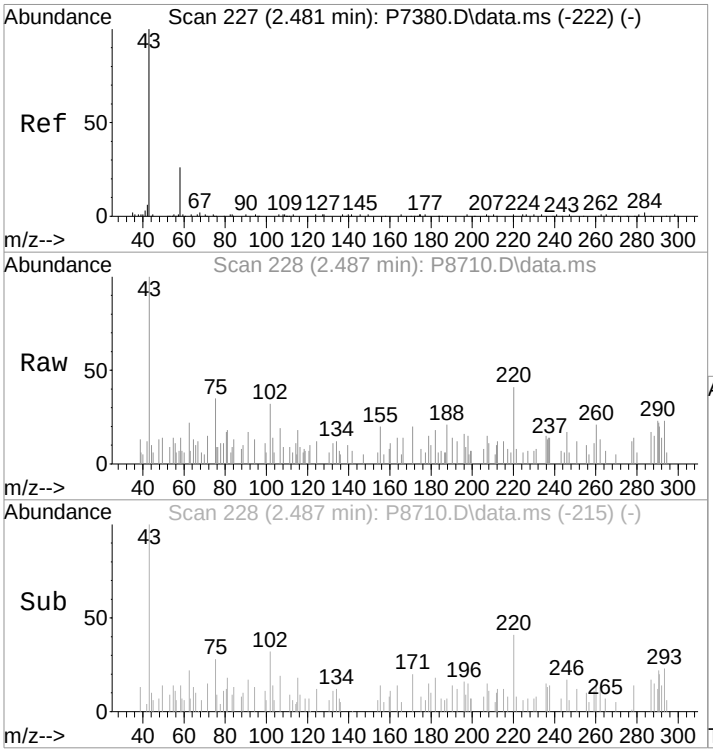


#14
Freon 113
Concen: 0.35 ppb m
RT: 2.433 min Scan# 219
Delta R.T. 0.000 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion:101 Resp: 2171

Ion	Ratio	Lower	Upper
101	100		
151	80.4	63.3	103.3

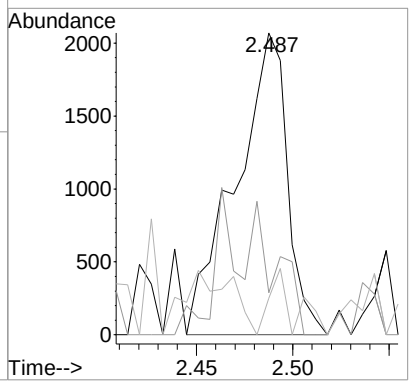


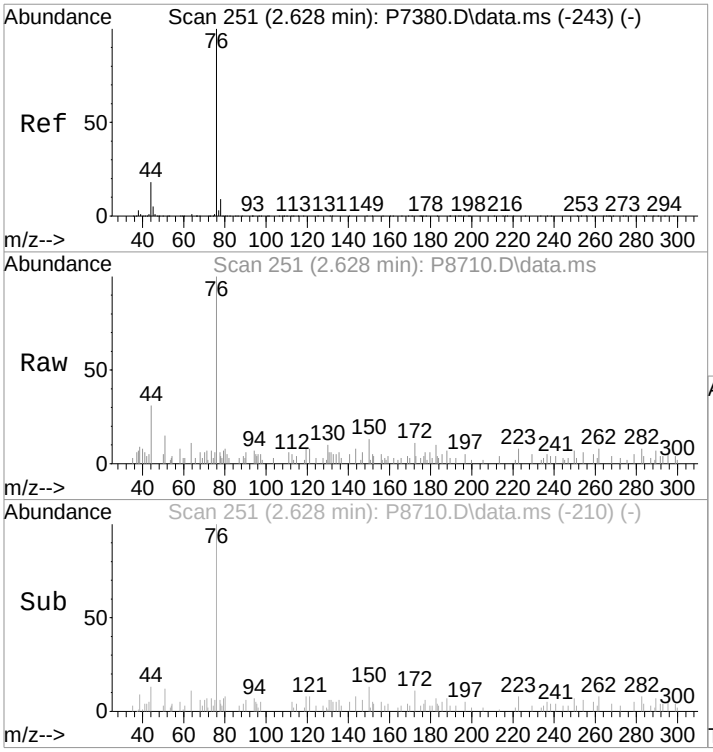


#15
Acetone
Concen: 3.23 ppb
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion: 43 Resp: 3854

Ion	Ratio	Lower	Upper
43	100		
58	13.9	6.2	46.2
42	12.1	0.0	26.9

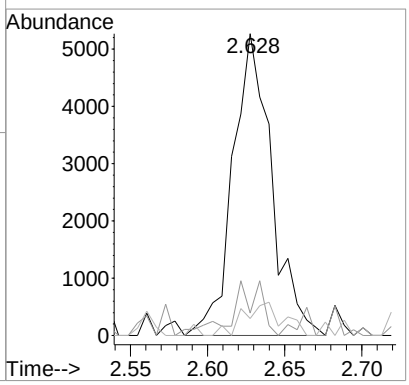


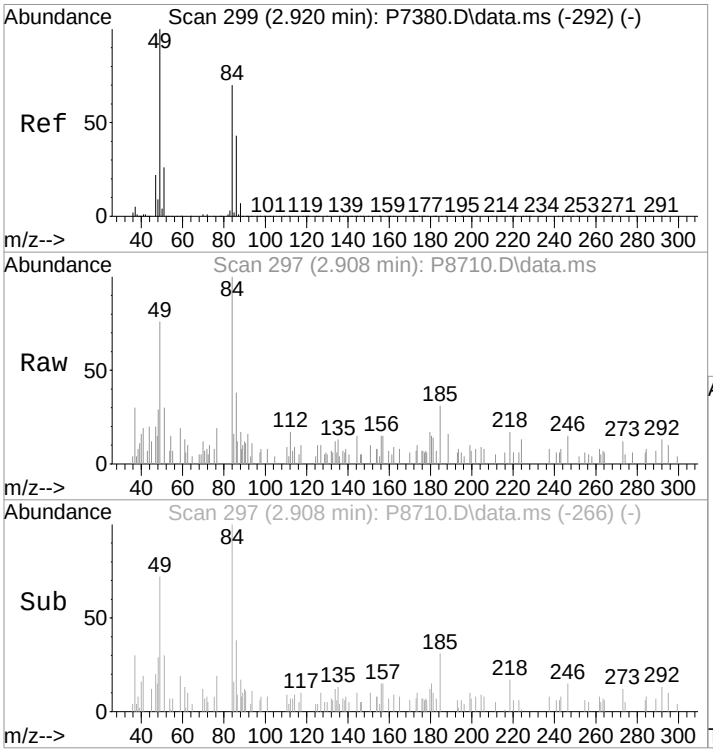


#18
Carbon Disulfide
Concen: 0.52 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion: 76 Resp: 9205

Ion	Ratio	Lower	Upper
76	100		
78	7.4	0.0	29.5
77	5.6	0.0	22.7

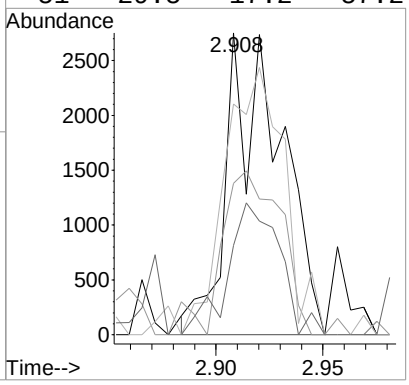


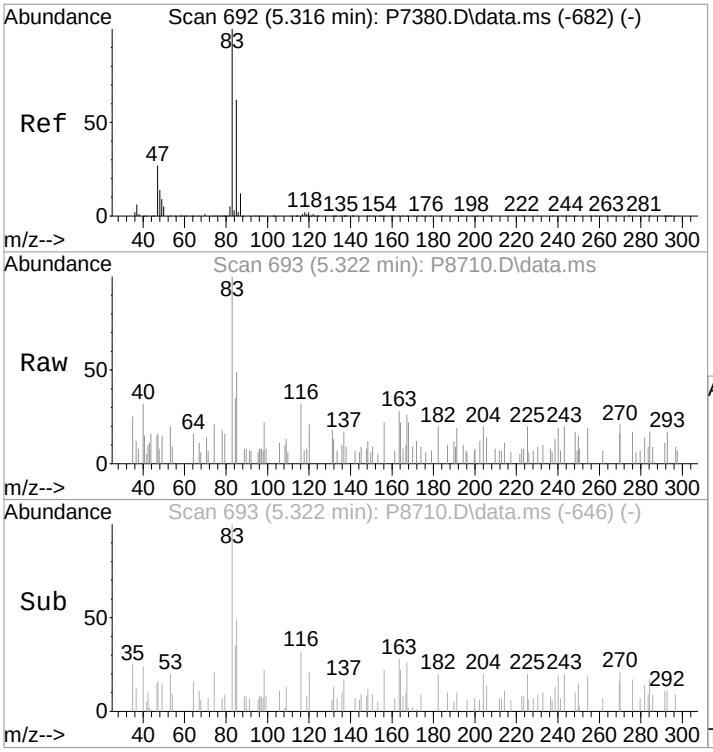


#22
Methylene Chloride
Concen: 0.77 ppb m
RT: 2.908 min Scan# 297
Delta R.T. -0.012 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion: 84 Resp: 4844

Ion	Ratio	Lower	Upper
84	100		
86	37.7	41.5	81.5#
49	76.4	122.0	162.0#
51	29.5	17.2	57.2

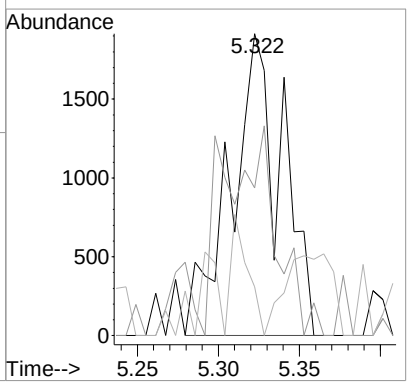


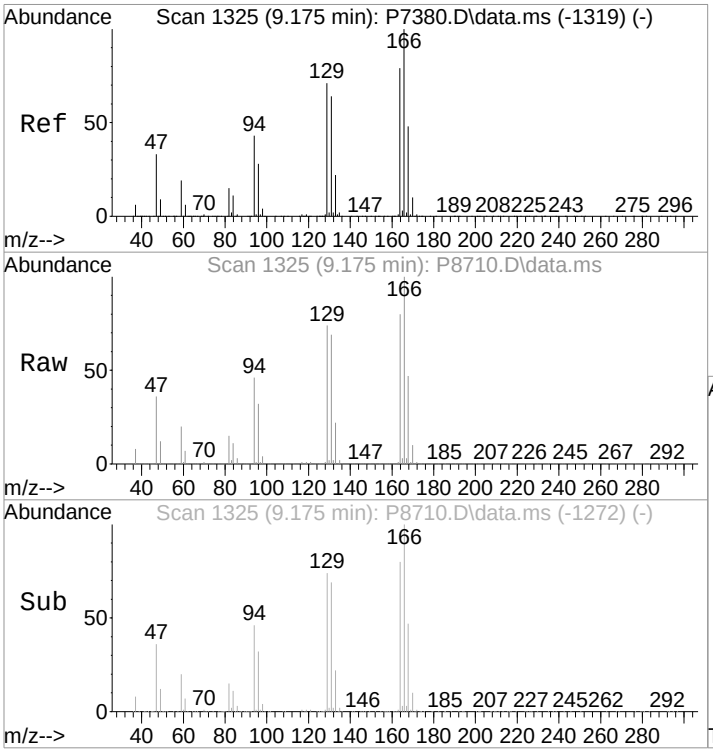


#40
Chloroform
Concen: 0.38 ppb m
RT: 5.322 min Scan# 693
Delta R.T. 0.000 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion: 83 Resp: 4186

Ion	Ratio	Lower	Upper
83	100		
85	48.9	42.3	82.3
47	16.2	6.9	46.9

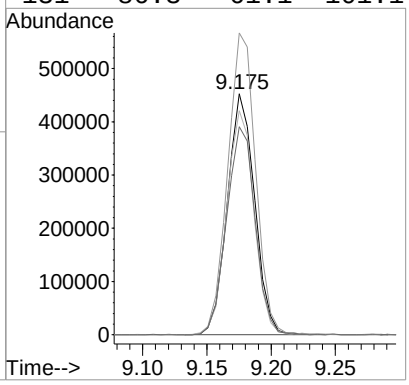


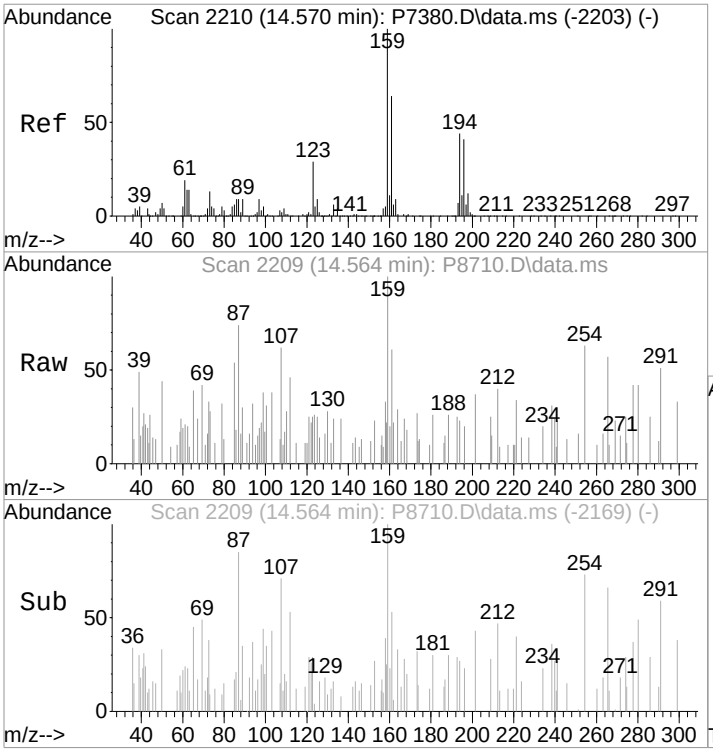


#72
Tetrachloroethene
Concen: 127.33 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion:164 Resp: 671297

Ion	Ratio	Lower	Upper
164	100		
166	125.2	106.8	146.8
129	92.9	69.7	109.7
131	86.3	61.1	101.1

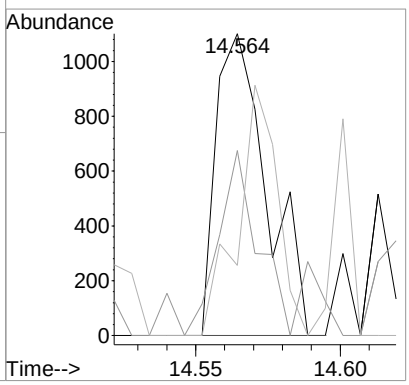


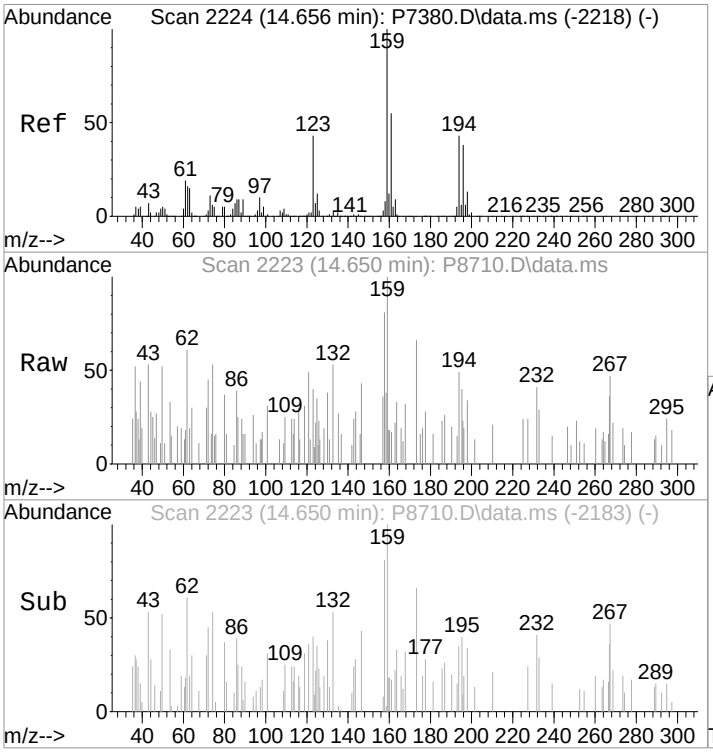


#119
2,4,5-Trichlorotolene
Concen: 0.26 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion:159 Resp: 1348

Ion	Ratio	Lower	Upper
159	100		
161	61.3	51.0	76.4
194	23.2	35.4	53.2#

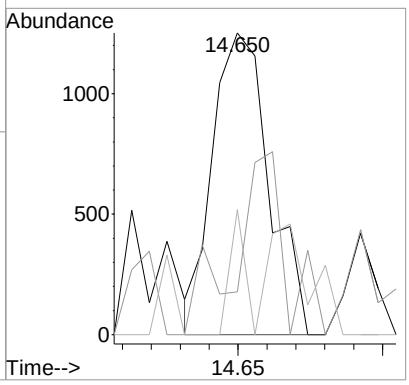




#120
2,3,6-Trichlorotoluene
Concen: 0.40 ppb
RT: 14.650 min Scan# 2223
Delta R.T. -0.006 min
Lab File: P8710.D
Acq: 27 Mar 2017 1:53 pm

Tgt Ion:159 Resp: 1712

Ion	Ratio	Lower	Upper
159	100		
161	14.2	44.3	66.5#
194	41.4	34.8	52.2

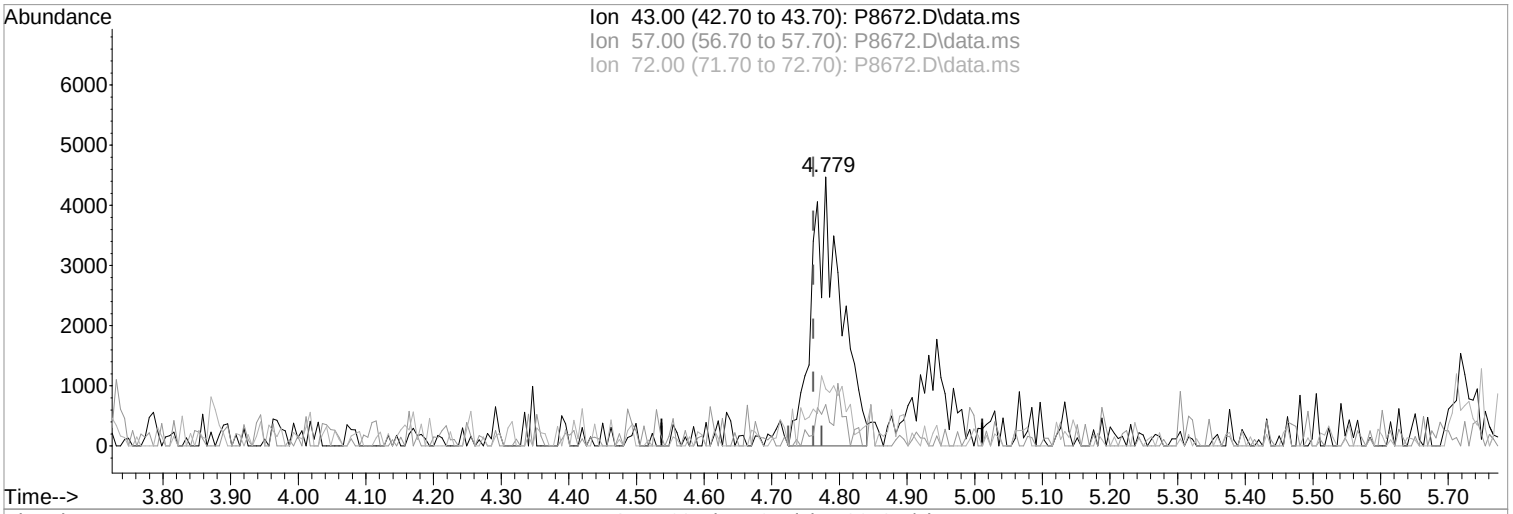


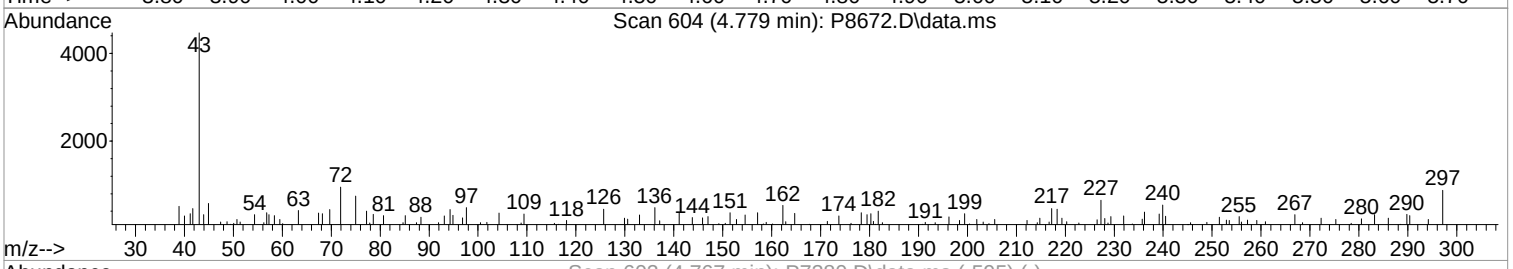
1st 03/27/17
2nd 03/28/17

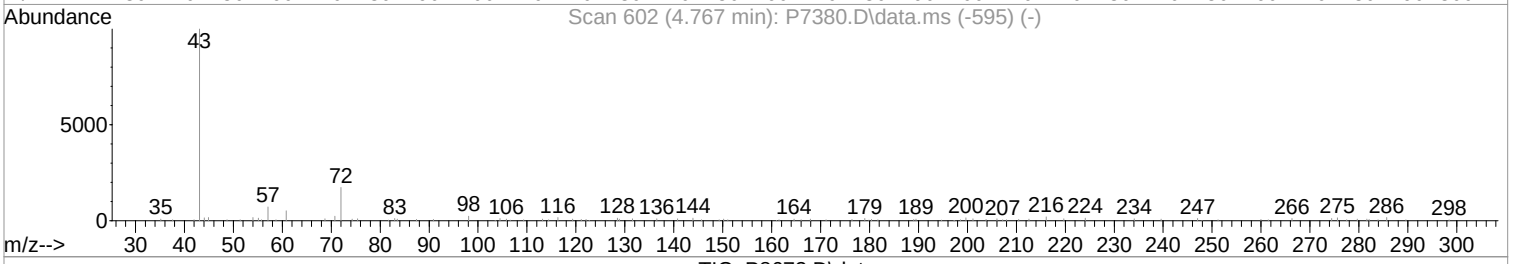
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8672.D
Acq On : 24 Mar 2017 6:42 pm
Operator : K.Ruest
Sample : R1702492-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 27 09:06:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8672.D\data.ms

(35) 2-Butanone (P)

4.779min (+0.018) 7.81 ppb m

response 13368

Ion	Exp%	Act%
43.00	100	100
57.00	6.70	8.19
72.00	20.10	21.25
0.00	0.00	0.00

Manual Integration:

After

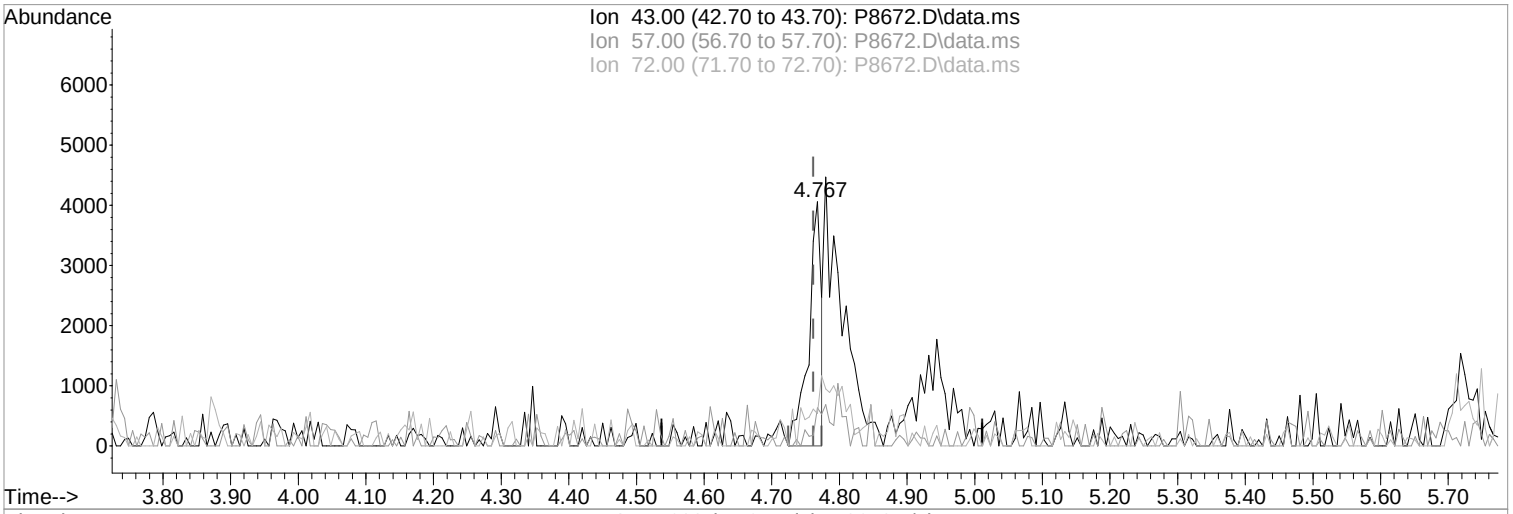
Split Peak

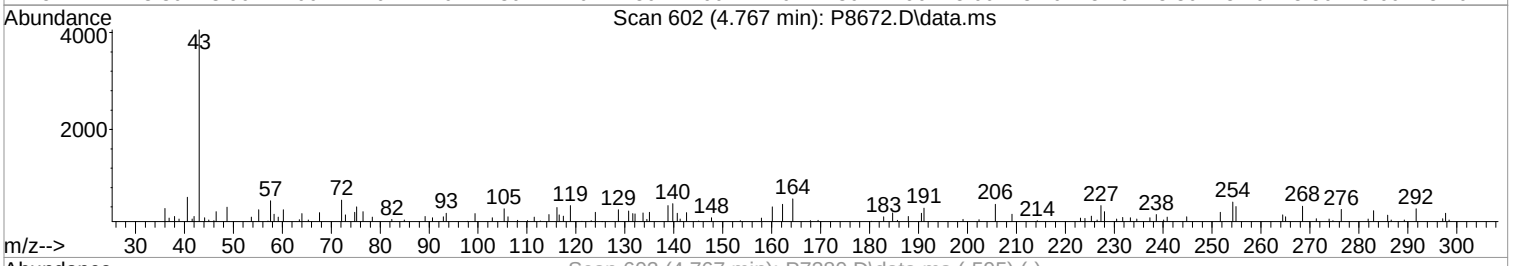
03/27/17

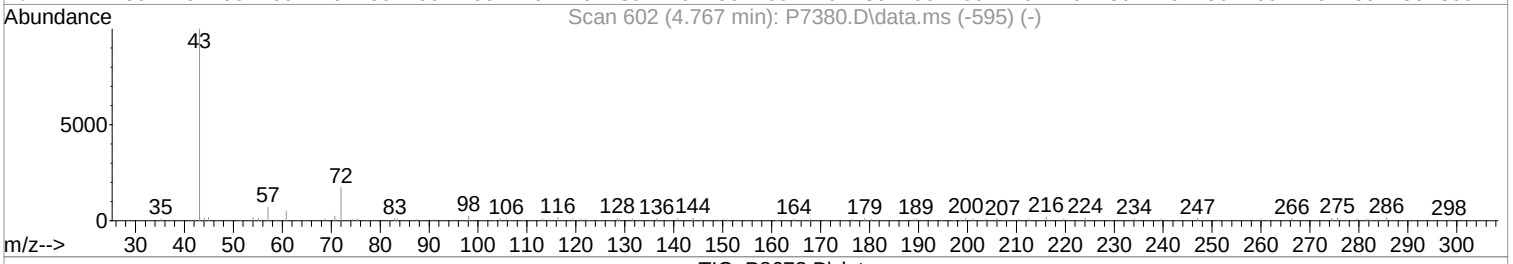
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8672.D
Acq On : 24 Mar 2017 6:42 pm
Operator : K.Ruest
Sample : R1702492-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 27 09:06:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8672.D\data.ms

(35) 2-Butanone (P)

4.767min (+0.006) 3.03 ppb

response 5193

Ion	Exp%	Act%
43.00	100	100
57.00	6.70	15.67
72.00	20.10	13.35
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8672.D
Acq On : 24 Mar 2017 6:42 pm
Operator : K.Ruest
Sample : R1702492-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 27 11:20:35 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

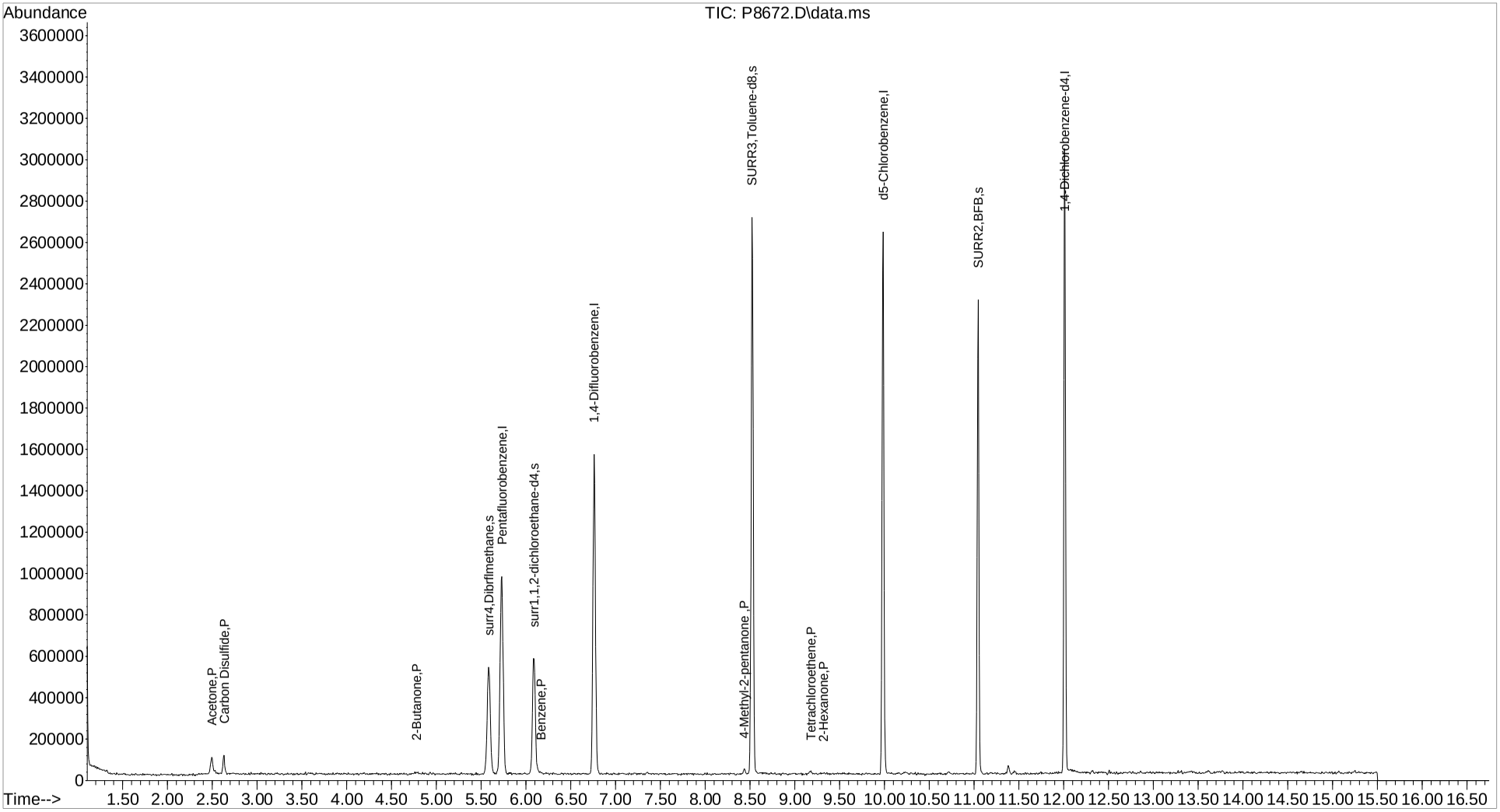
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	792761	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1299243	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1178707	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	585139	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	379734	54.16	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.32%				
48) surr1,1,2-dichloroetha...	6.090	65	452922	58.19	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 116.38%				
65) SURR3,Toluene-d8	8.523	98	1590727	54.88	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.76%				
70) SURR2,BFB	11.047	95	562197	50.05	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.10%				
Target Compounds							Qvalue
15) Acetone	2.493	43	104338	89.61	ppb		85
18) Carbon Disulfide	2.634	76	99709	5.82	ppb		91
35) 2-Butanone	4.779	43	13368m	7.81	ppb		
49) Benzene	6.163	78	5212	0.23	ppb		92
64) 4-Methyl-2-pentanone	8.431	43	12755	3.11	ppb		89
72) Tetrachloroethene	9.175	164	2099	0.41	ppb	#	80
73) 2-Hexanone	9.321	43	1954	0.74	ppb		77

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

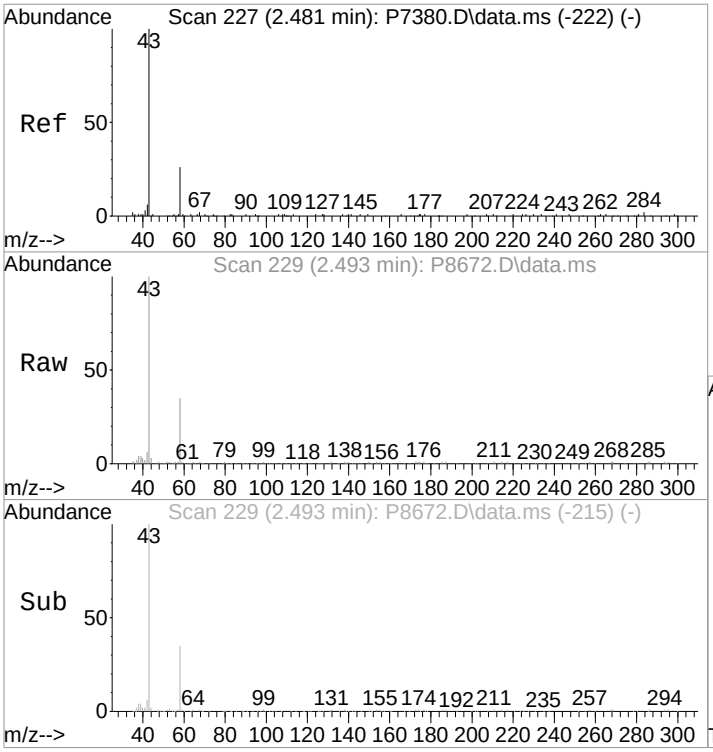
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8672.D
Acq On : 24 Mar 2017 6:42 pm
Operator : K.Ruest
Sample : R1702492-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 27 11:20:35 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



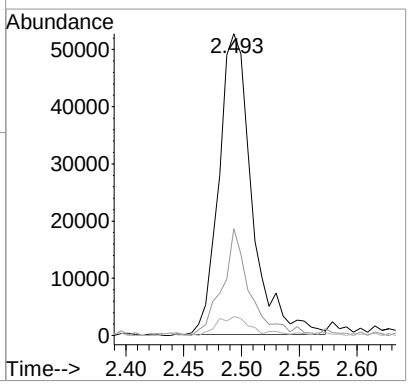
1st 03/27/17
2nd 03/28/17

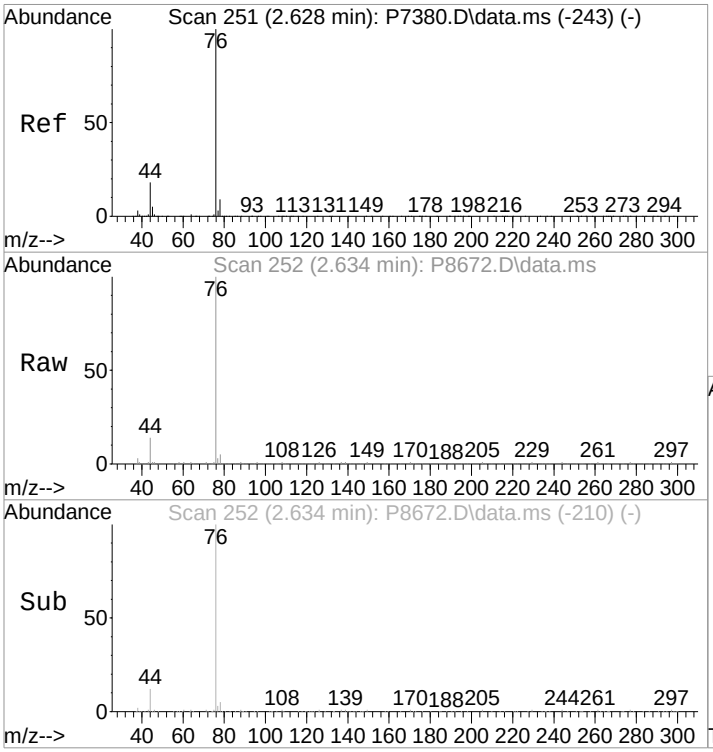


#15
Acetone
Concen: 89.61 ppb
RT: 2.493 min Scan# 229
Delta R.T. 0.012 min
Lab File: P8672.D
Acq: 24 Mar 2017 6:42 pm

Tgt Ion: 43 Resp: 104338

Ion	Ratio	Lower	Upper
43	100		
58	35.4	6.2	46.2
42	6.2	0.0	26.9

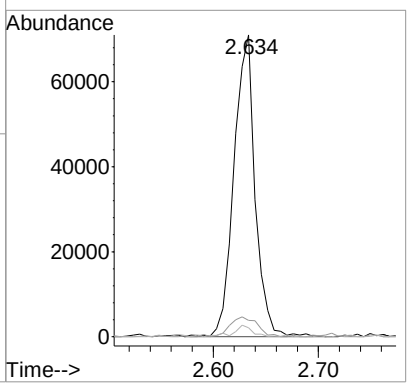


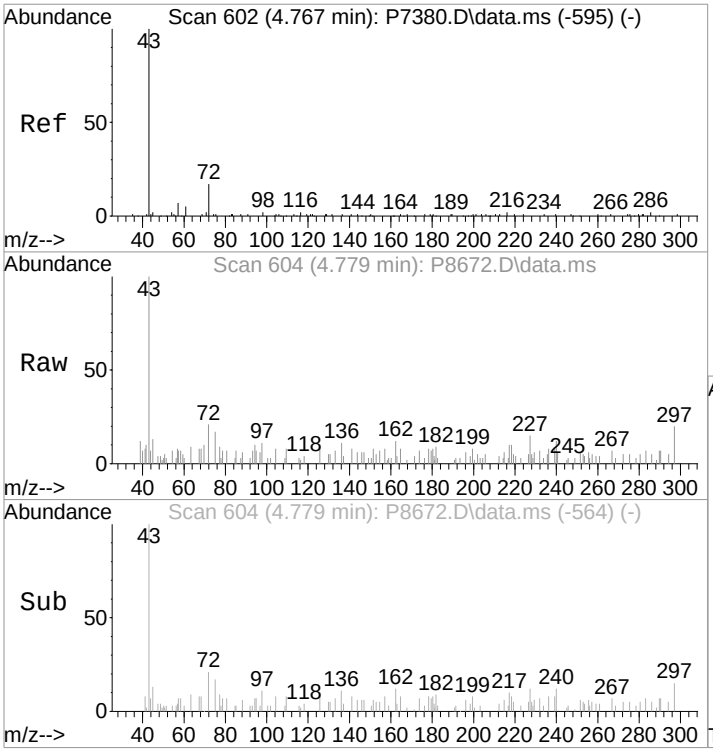


#18
Carbon Disulfide
Concen: 5.82 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.000 min
Lab File: P8672.D
Acq: 24 Mar 2017 6:42 pm

Tgt Ion: 76 Resp: 99709

Ion	Ratio	Lower	Upper
76	100		
78	5.4	0.0	29.5
77	3.0	0.0	22.7

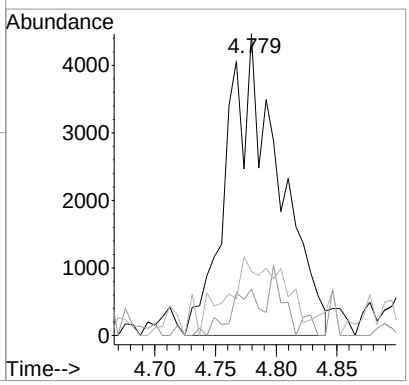


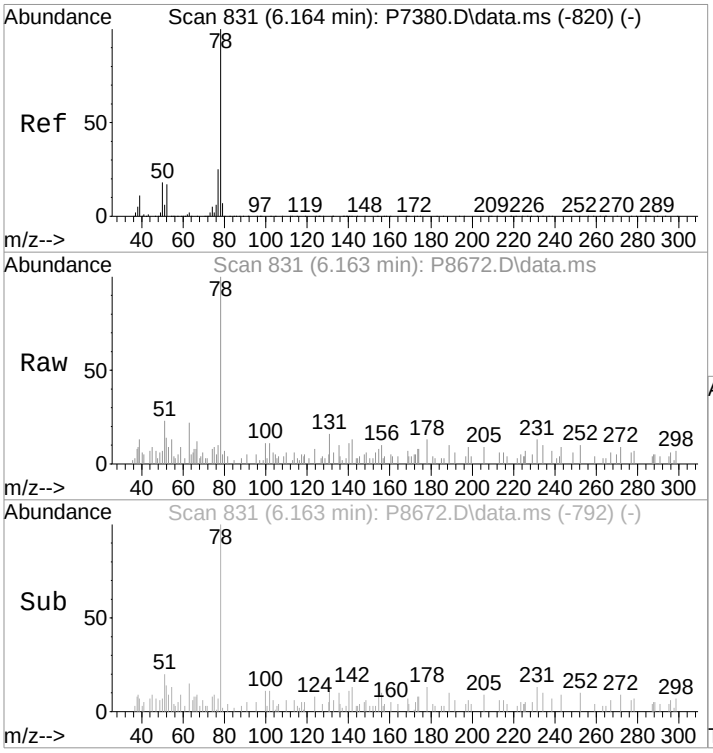


#35
2-Butanone
Concen: 7.81 ppb m
RT: 4.779 min Scan# 604
Delta R.T. 0.018 min
Lab File: P8672.D
Acq: 24 Mar 2017 6:42 pm

Tgt Ion: 43 Resp: 13368

Ion	Ratio	Lower	Upper
43	100		
57	8.2	0.0	26.7
72	21.2	0.1	40.1

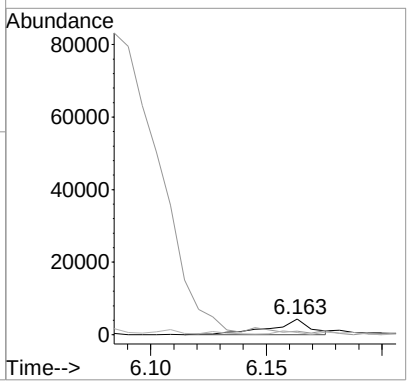


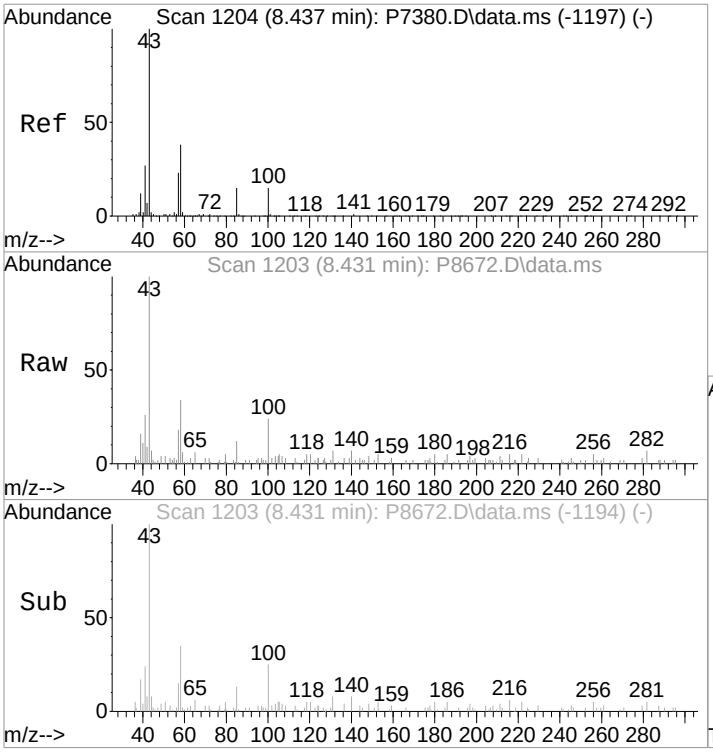


#49
Benzene
Concen: 0.23 ppb
RT: 6.163 min Scan# 831
Delta R.T. -0.006 min
Lab File: P8672.D
Acq: 24 Mar 2017 6:42 pm

Tgt Ion: 78 Resp: 5212

Ion	Ratio	Lower	Upper
78	100		
51	22.7	0.0	38.8
52	14.1	0.0	36.9

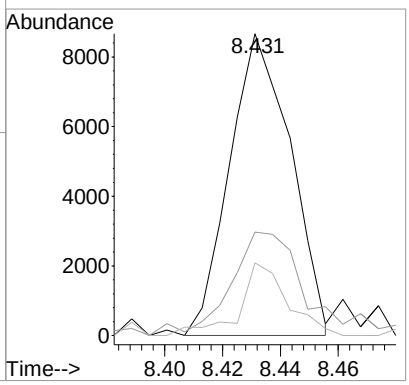


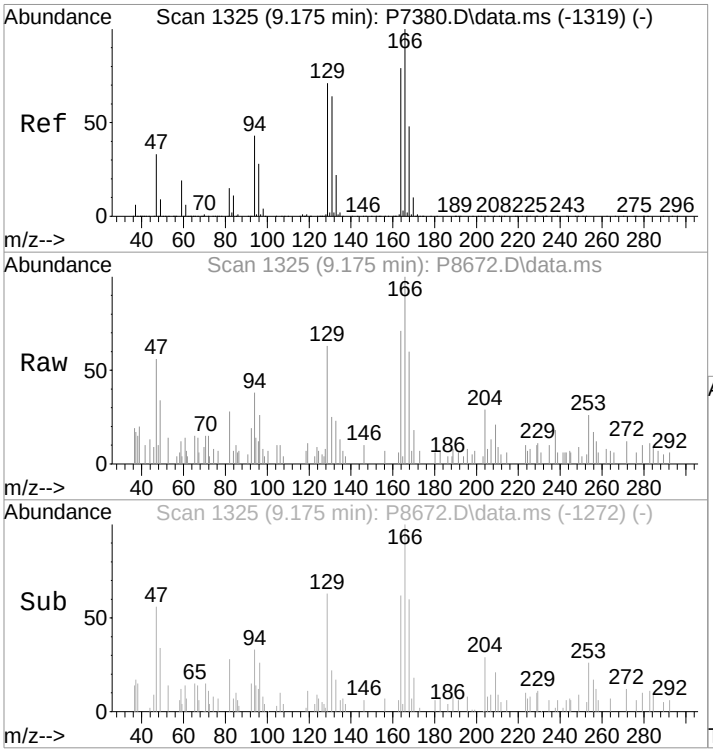


#64
4-Methyl-2-pentanone
Concen: 3.11 ppb
RT: 8.431 min Scan# 1203
Delta R.T. -0.006 min
Lab File: P8672.D
Acq: 24 Mar 2017 6:42 pm

Tgt Ion: 43 Resp: 12755

Ion	Ratio	Lower	Upper
43	100		
58	34.2	18.3	58.3
100	24.0	0.0	34.7

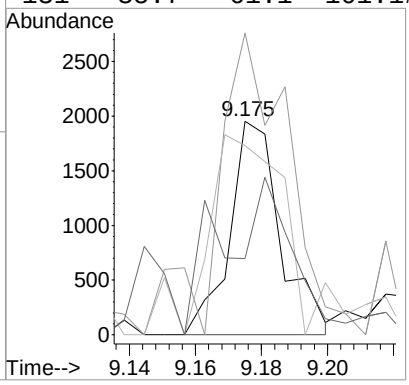


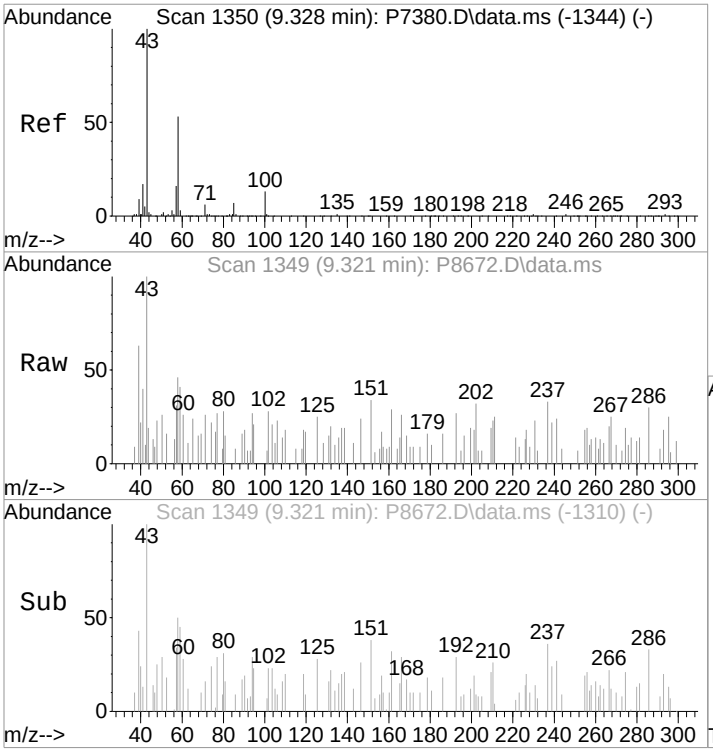


#72
Tetrachloroethene
Concen: 0.41 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8672.D
Acq: 24 Mar 2017 6:42 pm

Tgt Ion:164 Resp: 2099

Ion	Ratio	Lower	Upper
164	100		
166	141.4	106.8	146.8
129	88.5	69.7	109.7
131	35.7	61.1	101.1#

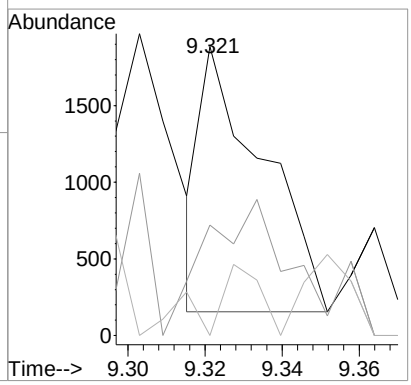




#73
2-Hexanone
Concen: 0.74 ppb
RT: 9.321 min Scan# 1349
Delta R.T. -0.006 min
Lab File: P8672.D
Acq: 24 Mar 2017 6:42 pm

Tgt Ion: 43 Resp: 1954

Ion	Ratio	Lower	Upper
43	100		
58	38.2	33.3	73.3
100	0.0	0.0	33.0

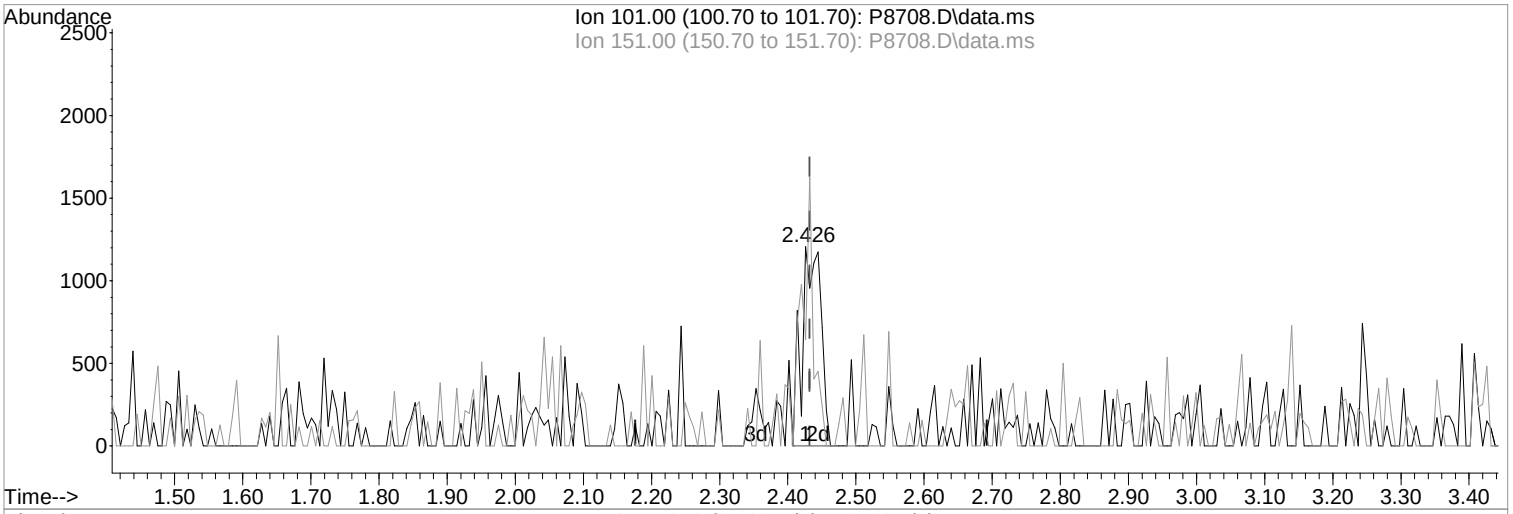


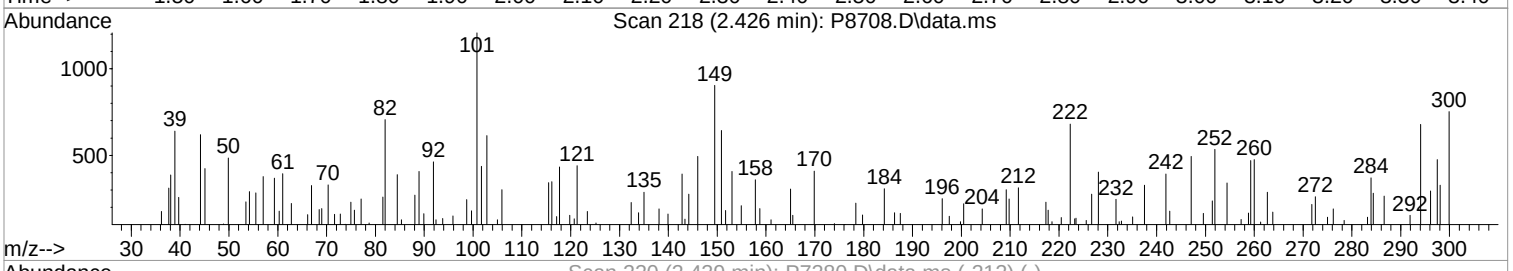
1st 03/28/17
2nd 03/28/17

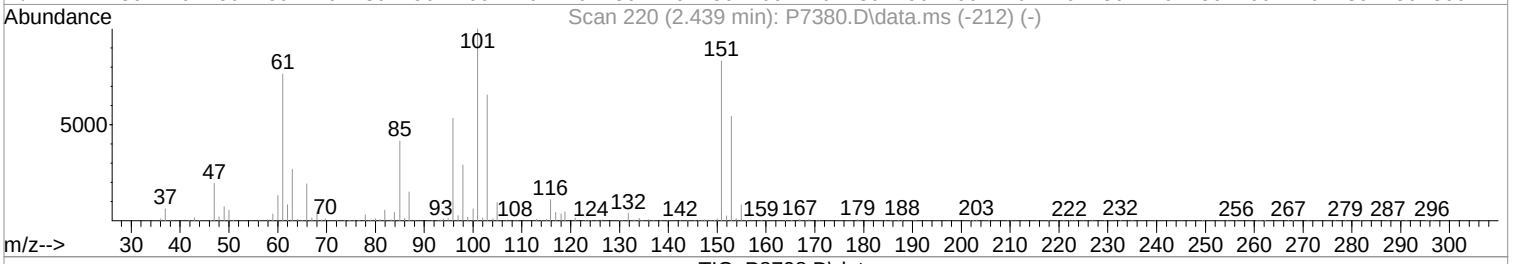
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(14) Freon 113 (P)

2.426min (-0.006) 0.38 ppb m

response 2333

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	53.23#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

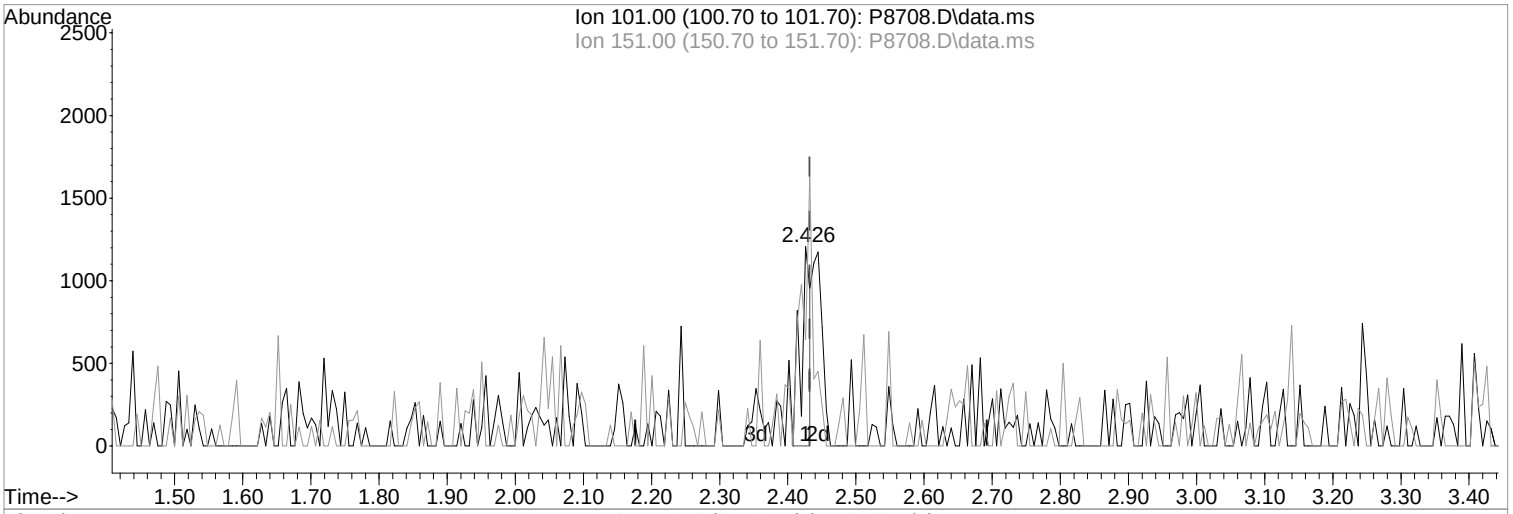
Split Peak

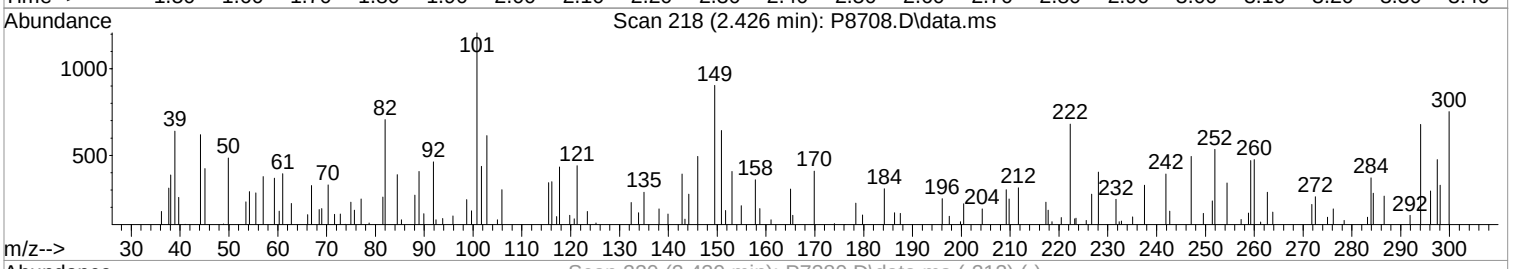
03/28/17

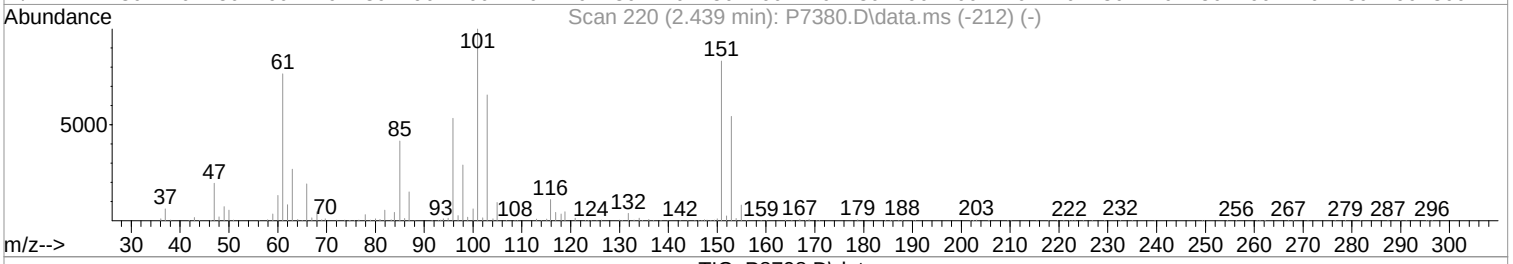
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(14) Freon 113 (P)

2.426min (-0.006) 0.19 ppb

response 1157

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	50.15#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

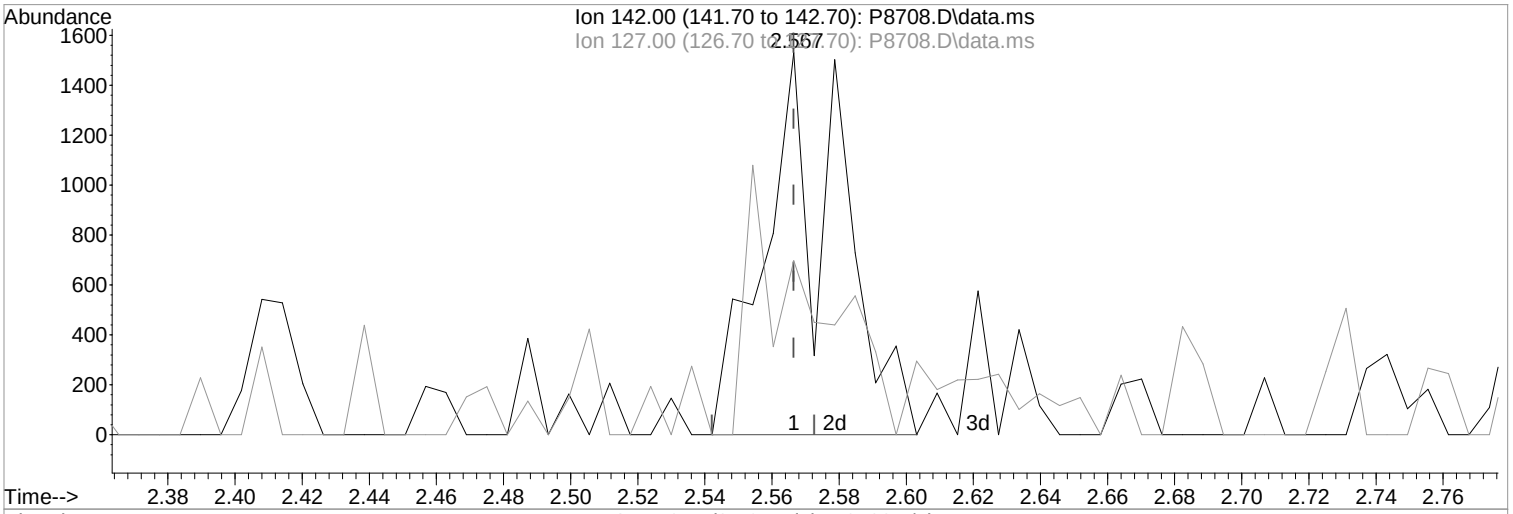
03/28/17

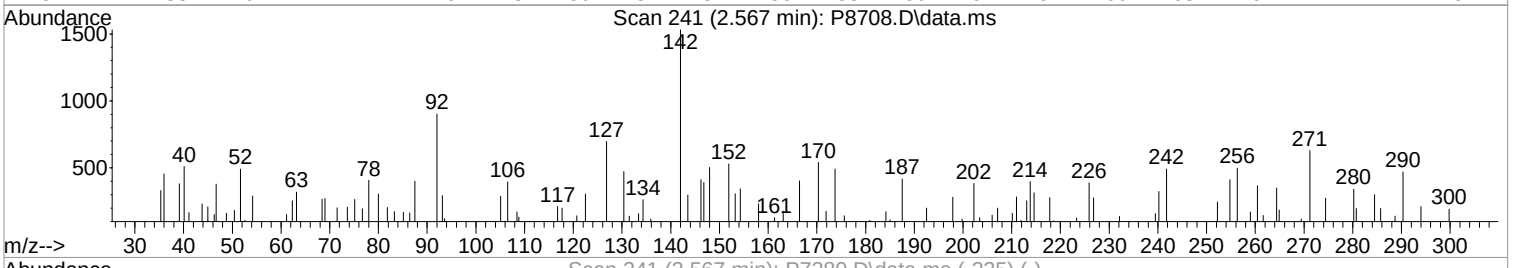
1st 03/28/17
2nd 03/28/17

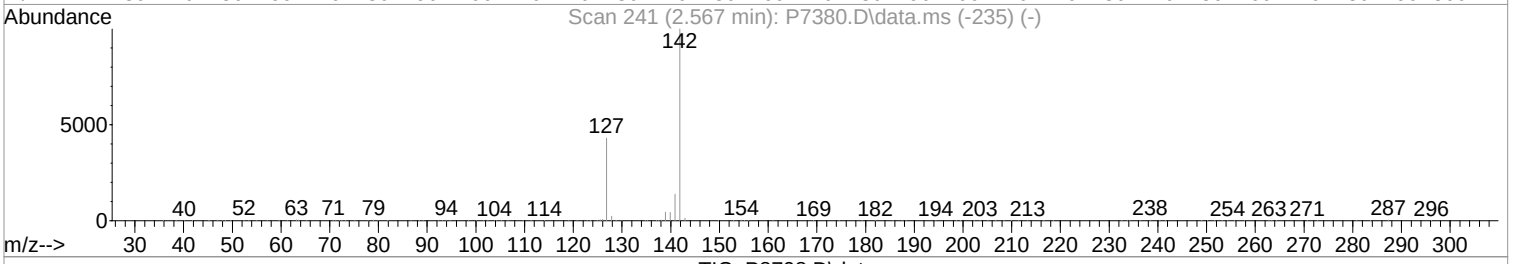
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(17) Iodomethane

2.567min (0.000) 0.28 ppb m

response 2382

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	45.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

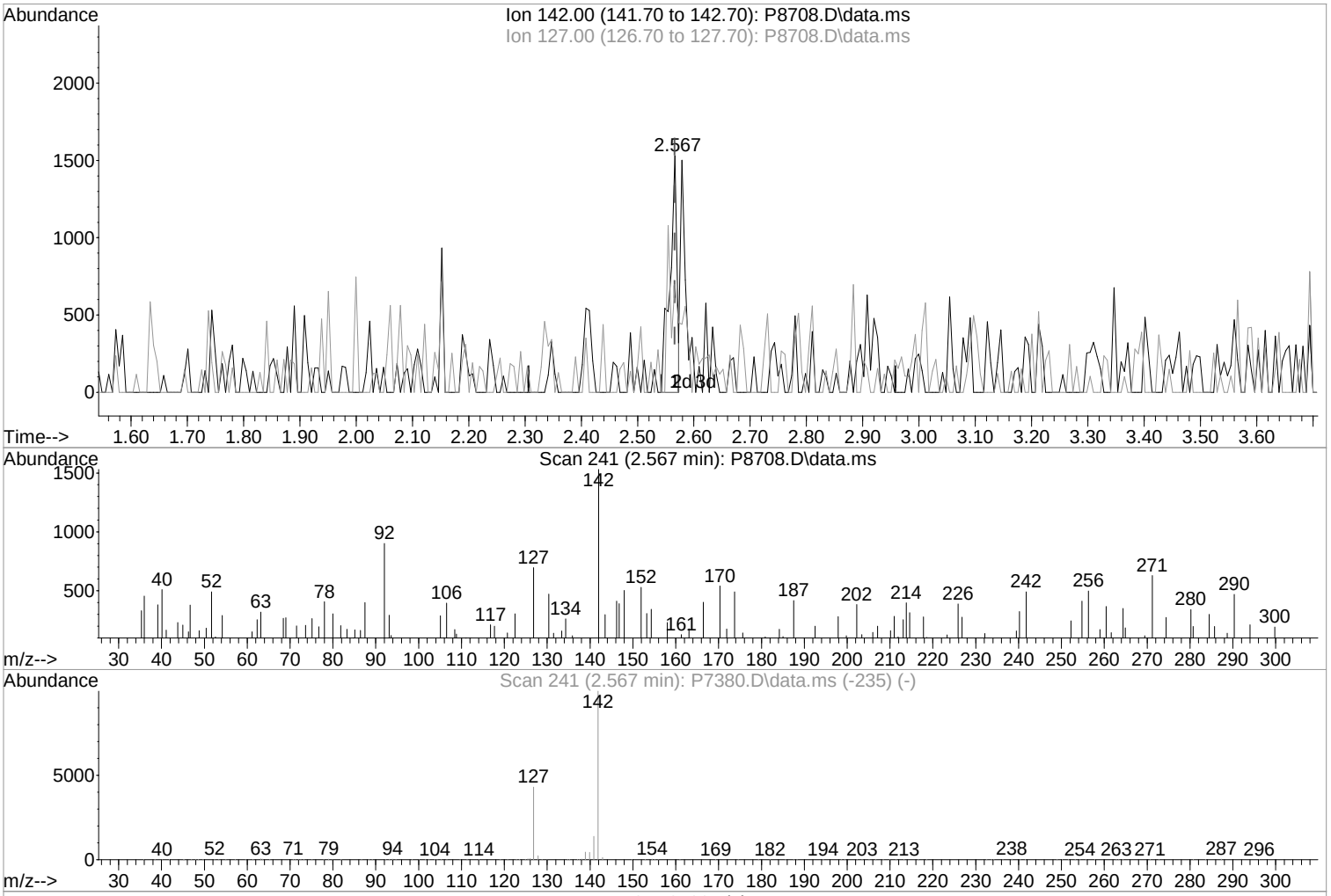
03/28/17

1st 03/28/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8708.D\data.ms

(17) Iodomethane

2.567min (0.000) 0.16 ppb

response 1360

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	45.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

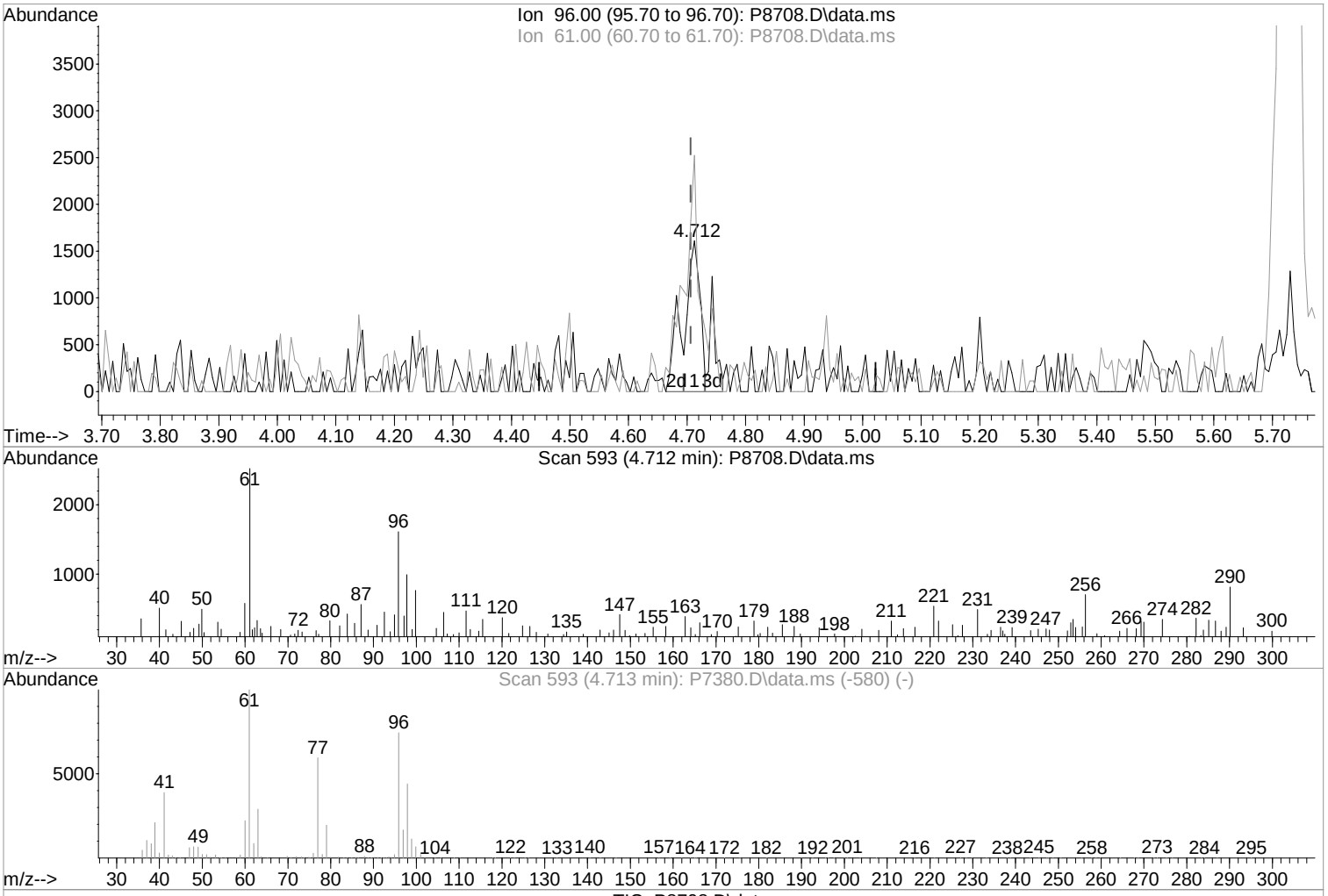
Before

03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8708.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.712min (+0.006) 0.57 ppb m

response 4043

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	156.58#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

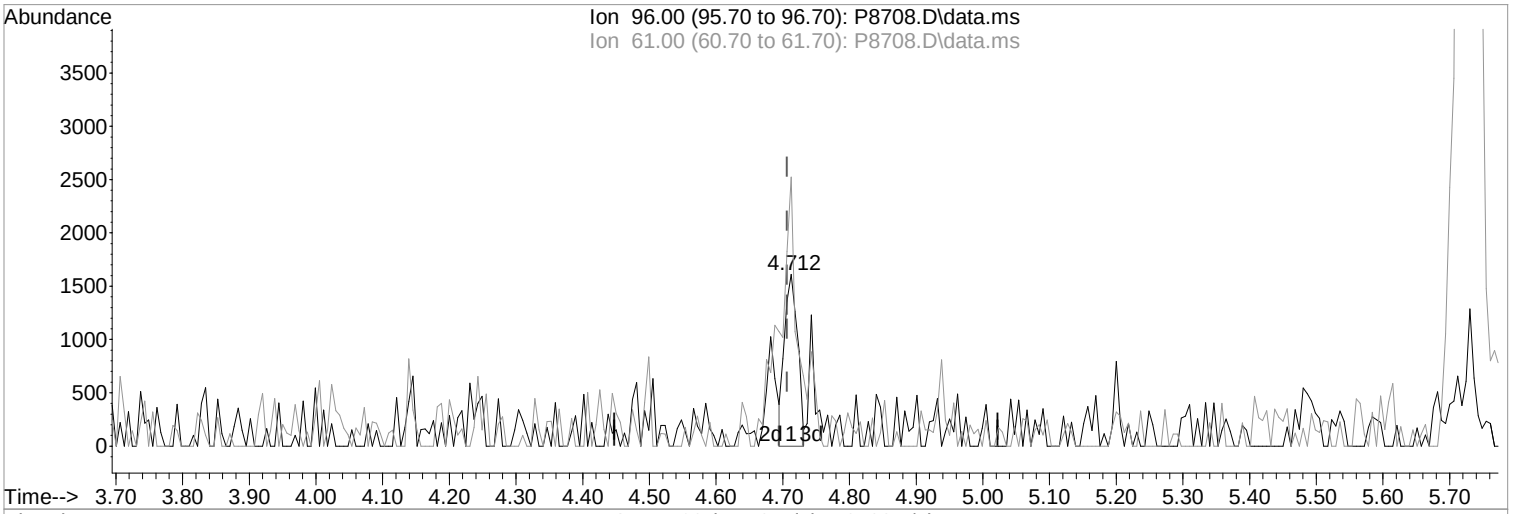
03/28/17

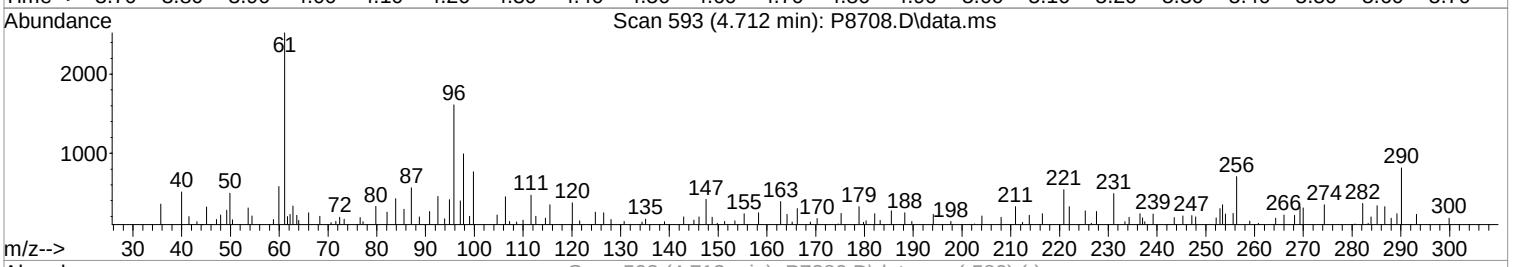
1st 03/28/17
2nd 03/28/17

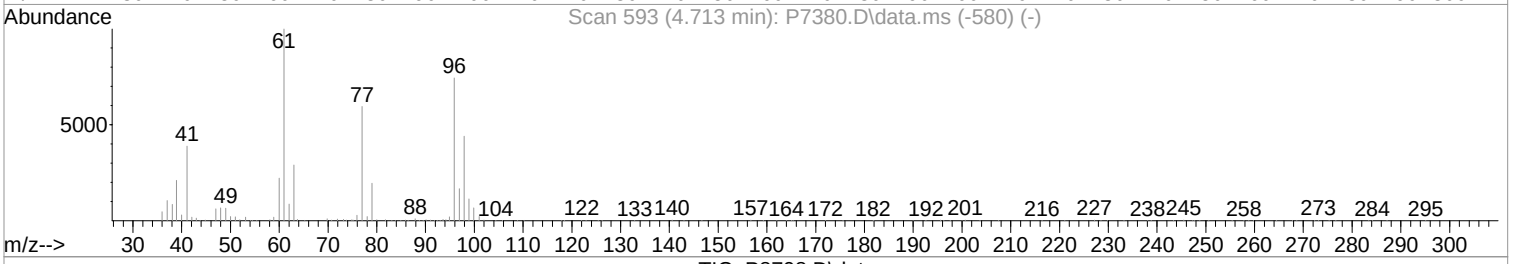
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.712min (+0.006) 0.32 ppb

response 2227

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	168.98#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

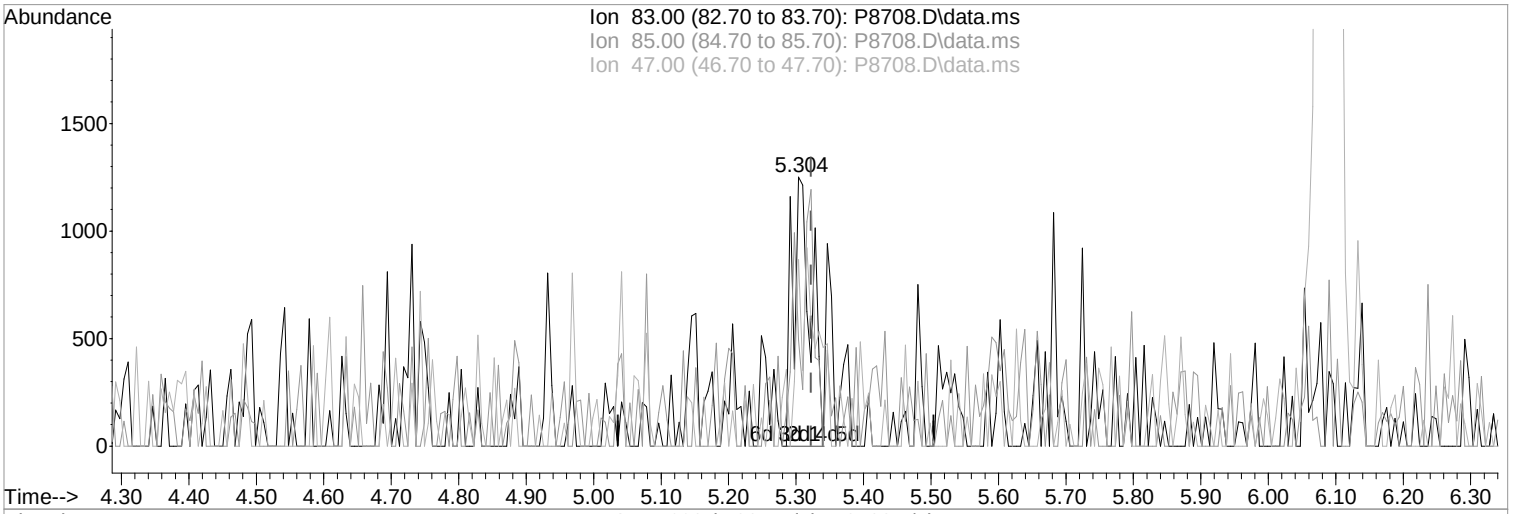
Before

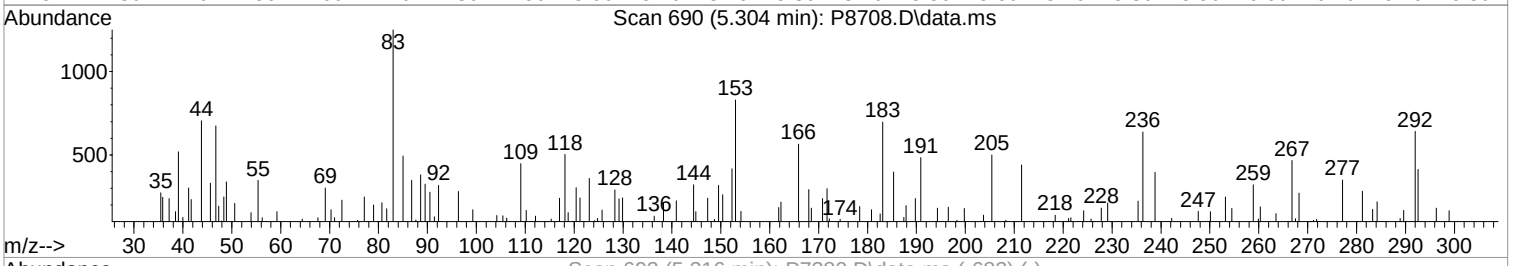
03/28/17

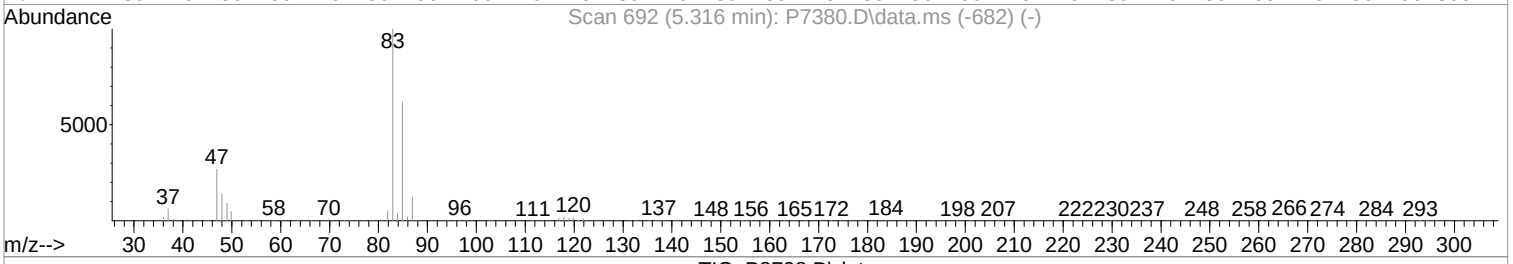
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(40) Chloroform (P)

5.304min (-0.018) 0.22 ppb m

response 2352

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	39.49#
47.00	26.90	53.96#
0.00	0.00	0.00

Manual Integration:

After

Split Peak

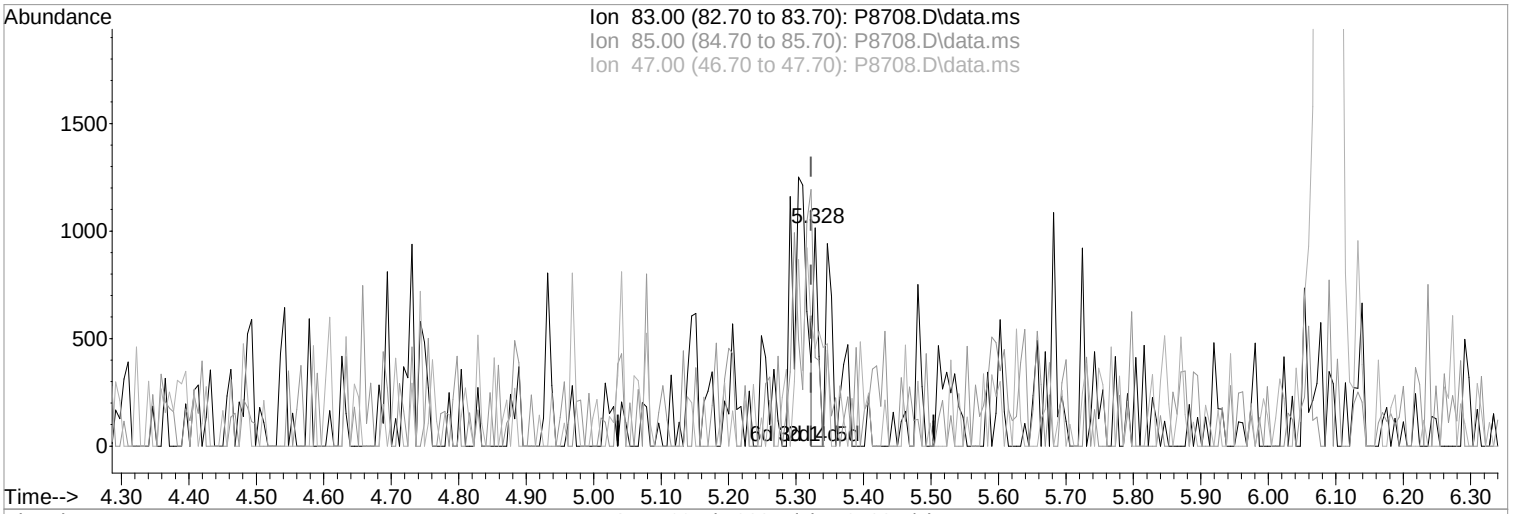
03/28/17

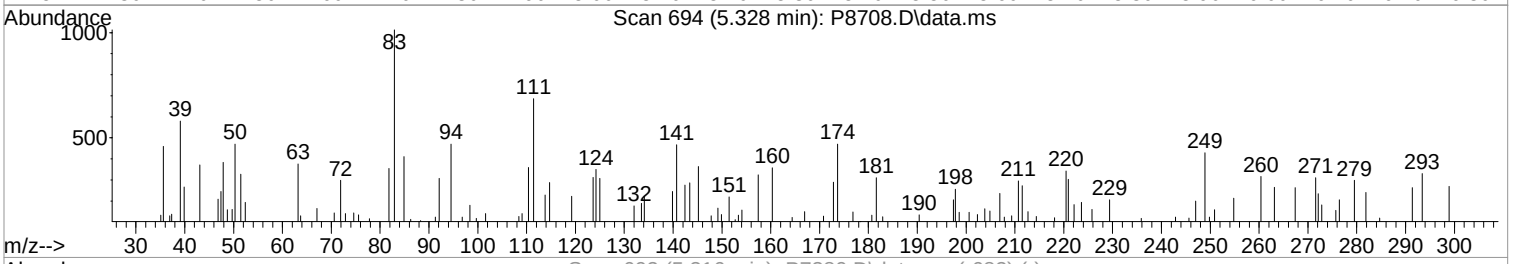
1st 03/28/17
2nd 03/28/17

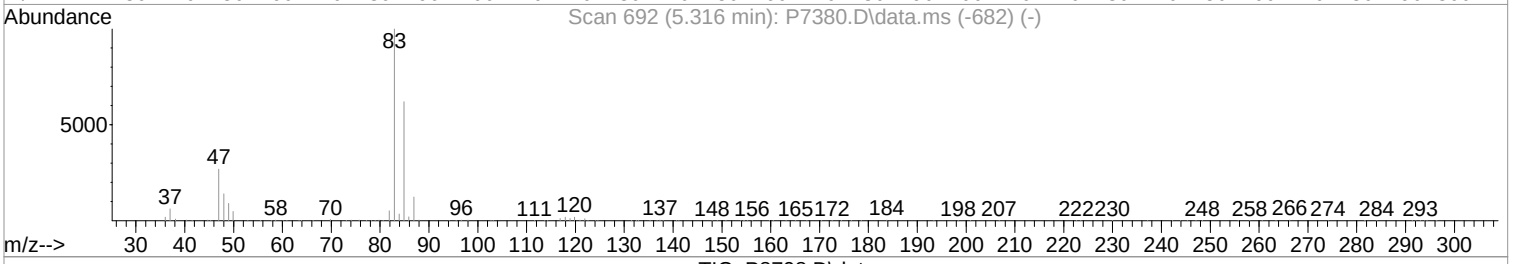
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(40) Chloroform (P)

5.328min (+0.006) 0.05 ppb

response 524

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	40.53#
47.00	26.90	44.77
0.00	0.00	0.00

Manual Integration:

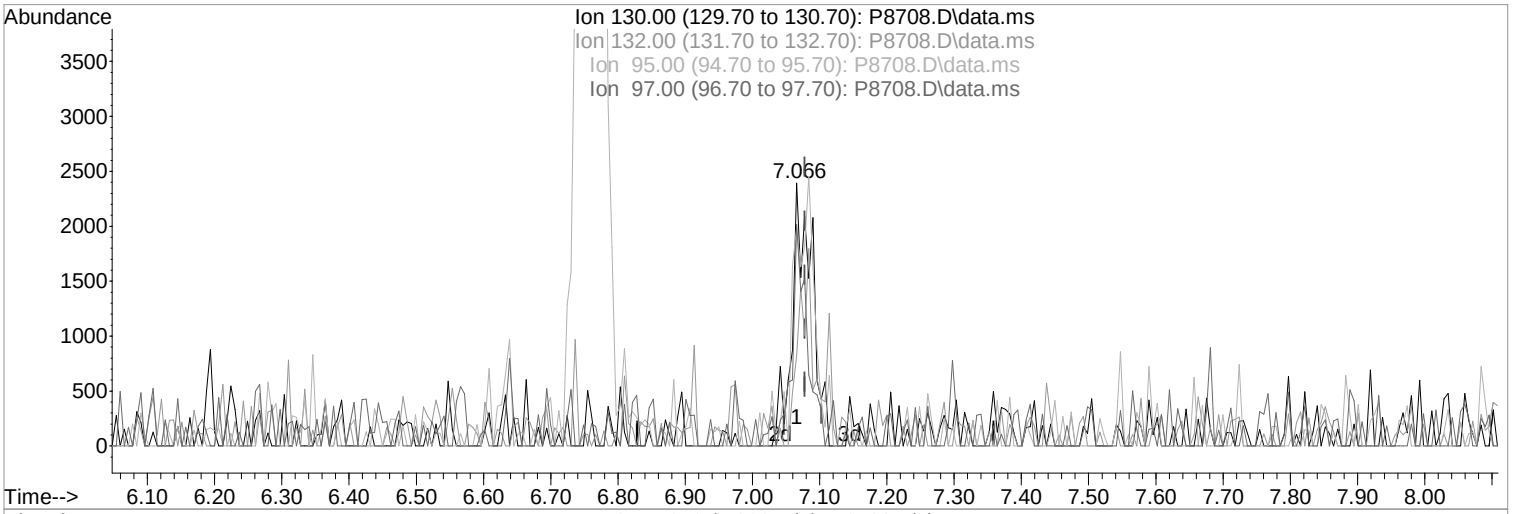
Before

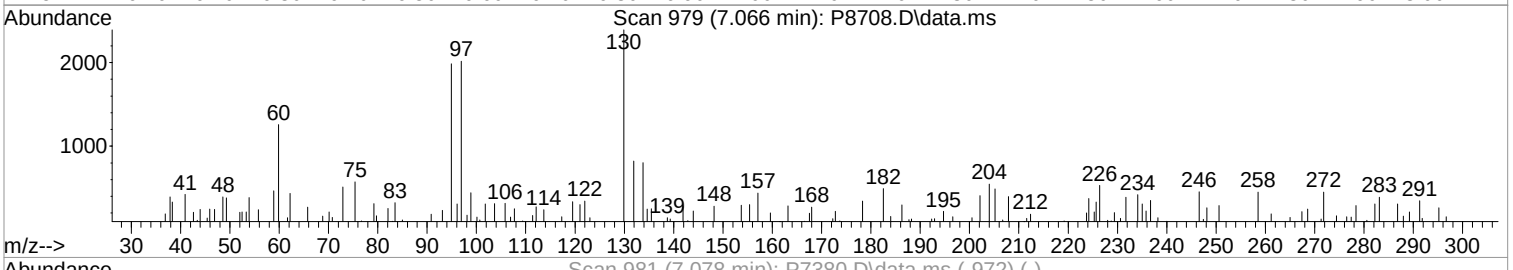
03/28/17

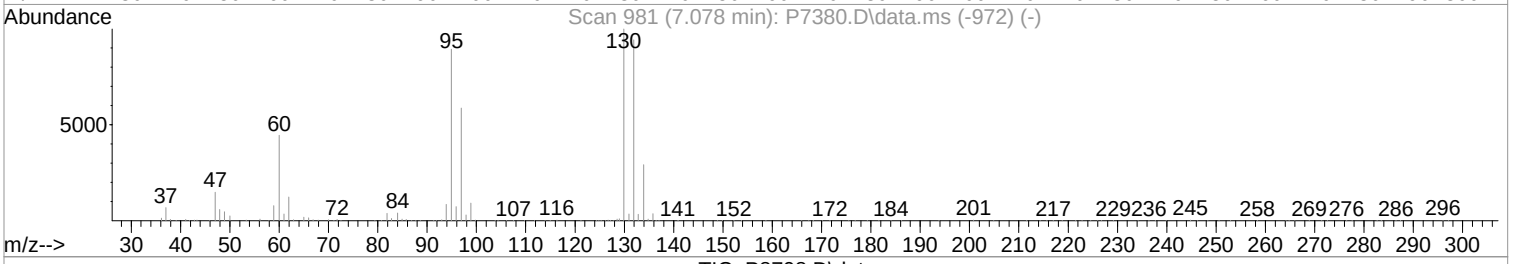
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(54) Trichloroethene (P)

7.066min (-0.012) 0.73 ppb m

response 5045

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	34.28#
95.00	89.40	82.90
97.00	58.80	84.28#

Manual Integration:

After

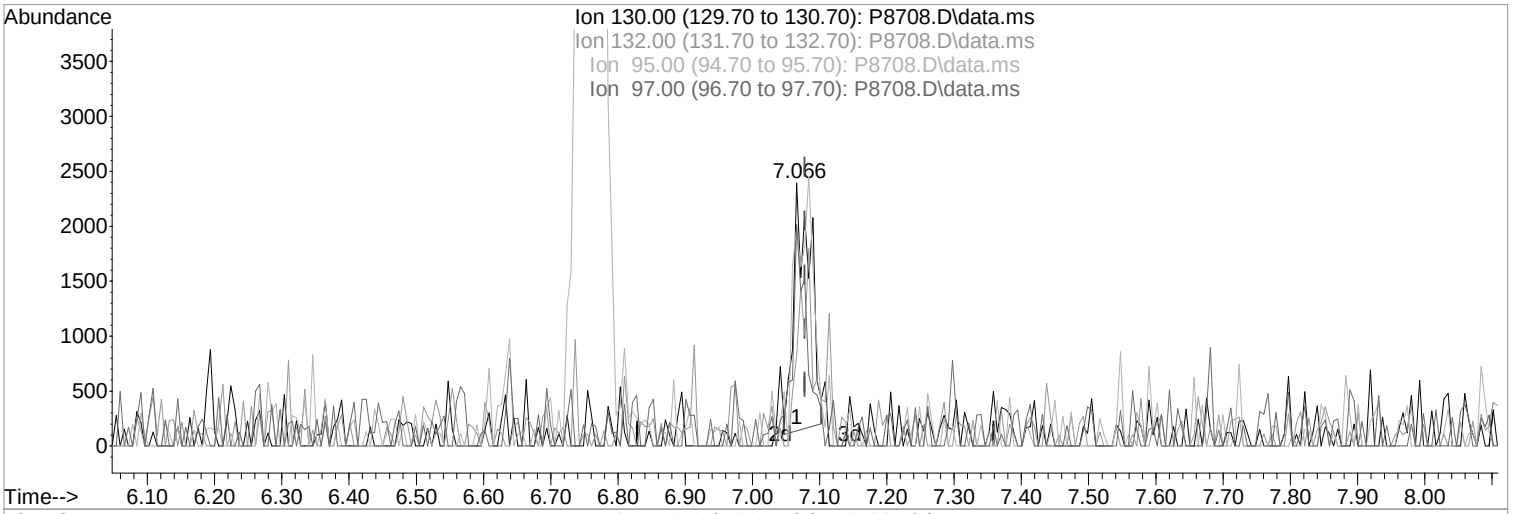
Split Peak

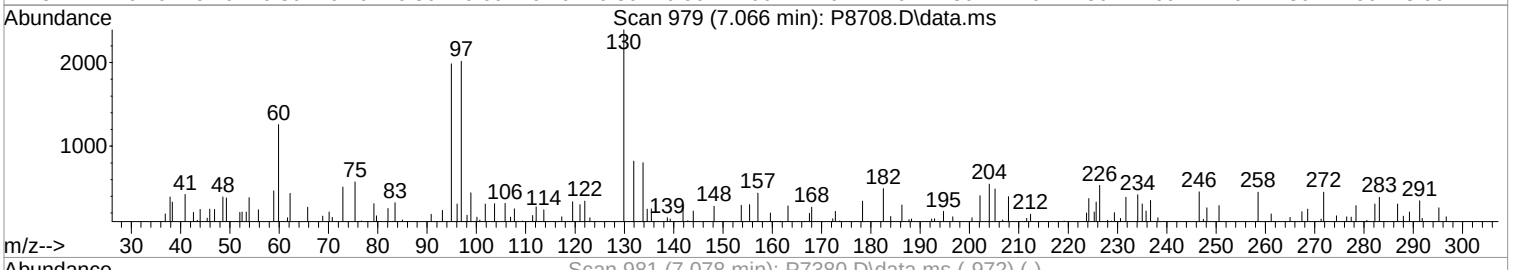
03/28/17

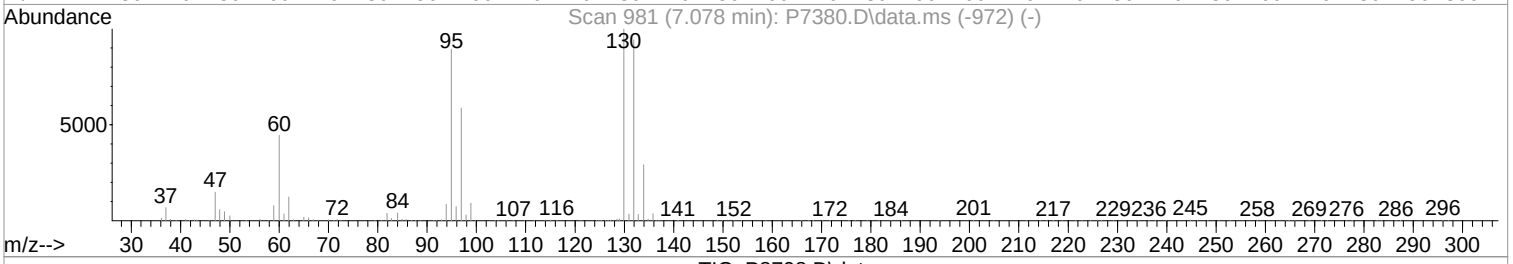
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 13:54:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8708.D\data.ms

(54) Trichloroethene (P)

7.066min (-0.012) 0.57 ppb

response 3926

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	34.28#
95.00	89.40	82.90
97.00	58.80	84.28#

Manual Integration:

Before

03/28/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 10:38:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

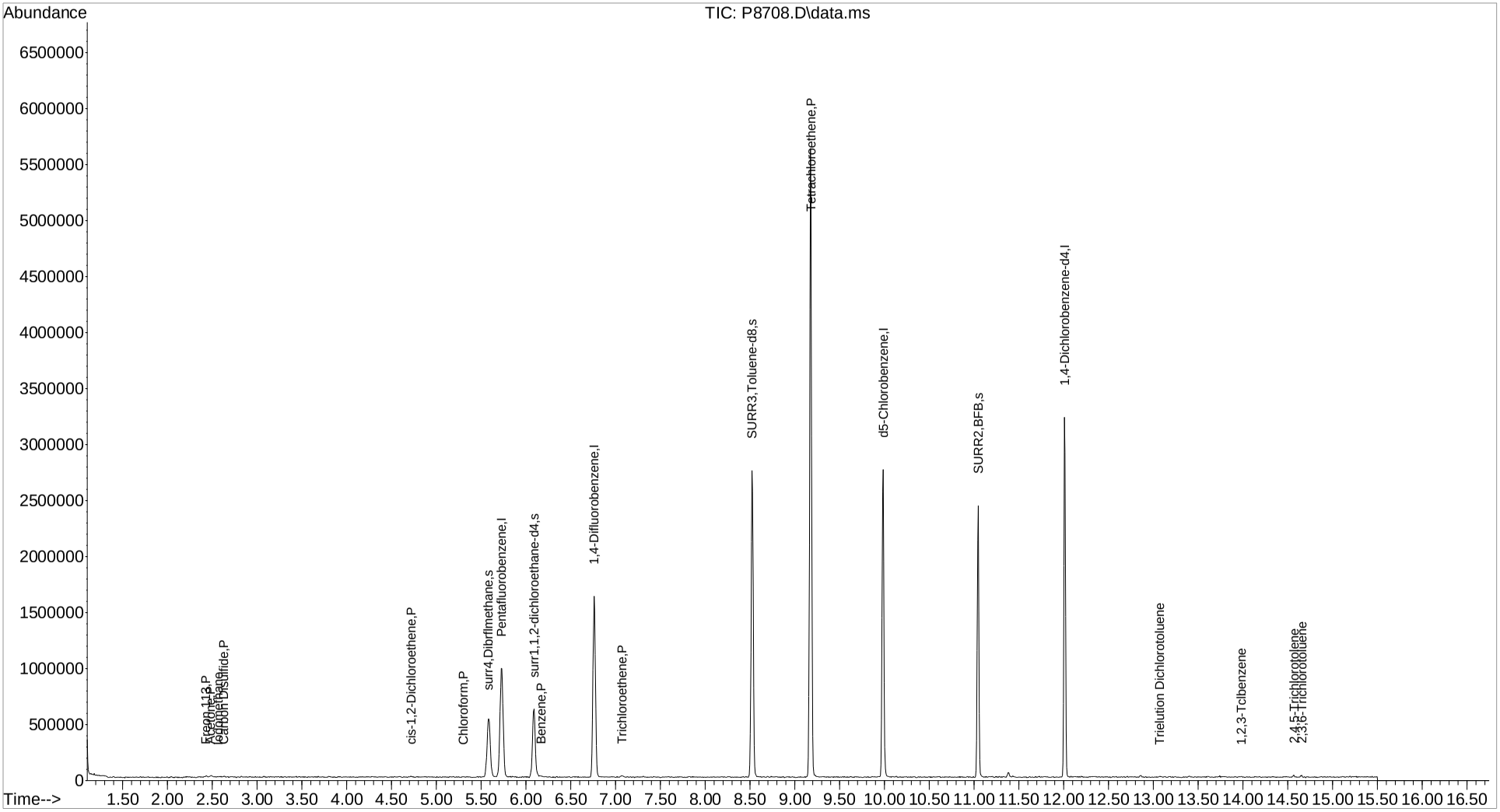
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.724	168	808275	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1338529	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1239415	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	612205	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.578	113	378010	52.34	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.68%				
48) surr1,1,2-dichloroetha...	6.090	65	468244	58.39	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 116.78%				
65) SURR3,Toluene-d8	8.523	98	1649222	55.23	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.46%				
70) SURR2,BFB	11.047	95	600455	51.89	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.78%				
Target Compounds							Qvalue
14) Freon 113	2.426	101	2333m	0.38	ppb		
15) Acetone	2.481	43	13606	11.46	ppb		87
17) Iodomethane	2.567	142	2382m	0.28	ppb		
18) Carbon Disulfide	2.627	76	7444	0.43	ppb		70
34) cis-1,2-Dichloroethene	4.712	96	4043m	0.57	ppb		
40) Chloroform	5.304	83	2352m	0.22	ppb		
49) Benzene	6.163	78	8537	0.36	ppb		84
54) Trichloroethene	7.066	130	5045m	0.73	ppb		
72) Tetrachloroethene	9.175	164	1052756	195.83	ppb		95
112) Trielution Dichlorotol...	13.071	125	2957	0.28	ppb	#	79
118) 1,2,3-Tclbenzene	13.979	180	1493	0.23	ppb	#	55
119) 2,4,5-Trichlorotolene	14.570	159	3174	0.62	ppb	#	61
120) 2,3,6-Trichlorotoluene	14.656	159	3389	0.79	ppb	#	61

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

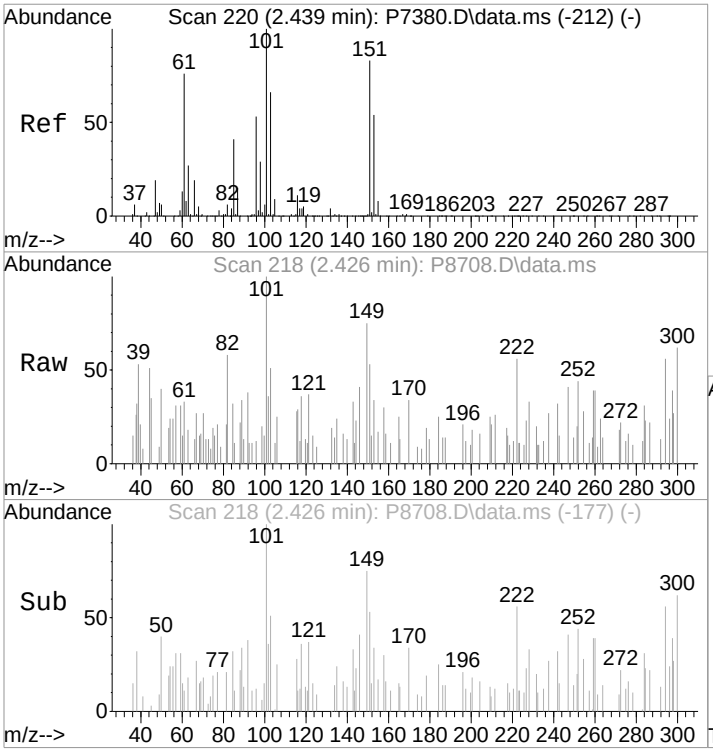
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8708.D
Acq On : 27 Mar 2017 12:53 pm
Operator : K.Ruest
Sample : R1702492-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 10:38:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



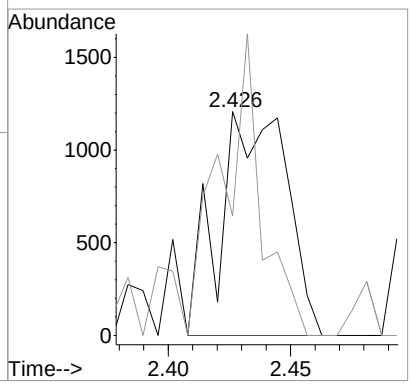
1st 03/28/17
2nd 03/28/17

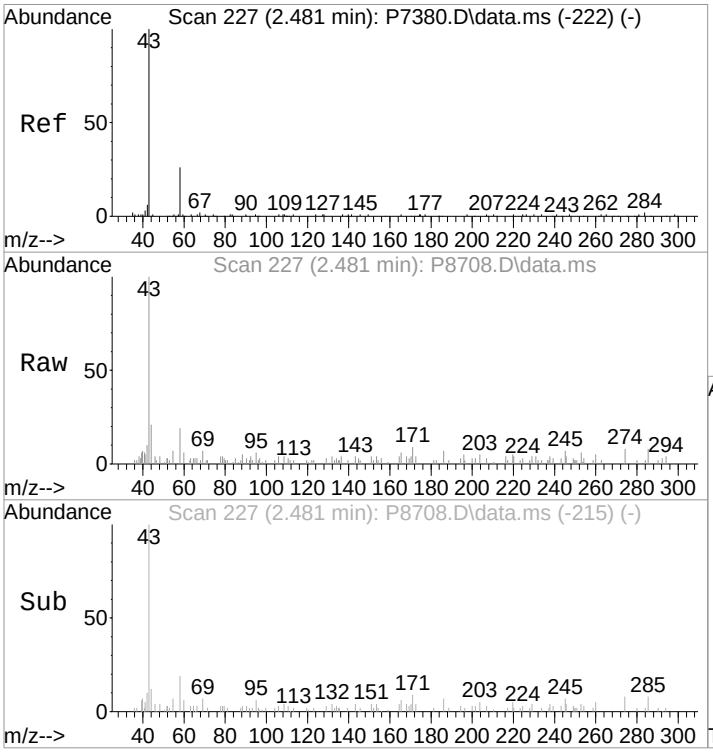


#14
Freon 113
Concen: 0.38 ppb m
RT: 2.426 min Scan# 218
Delta R.T. -0.006 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:101 Resp: 2333

Ion	Ratio	Lower	Upper
101	100		
151	53.2	63.3	103.3#

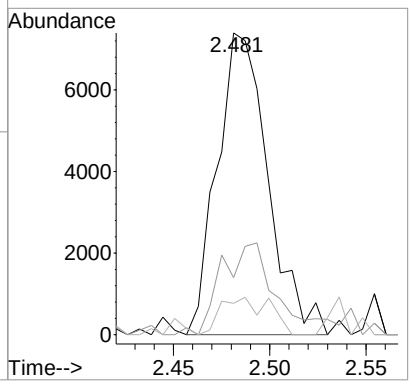


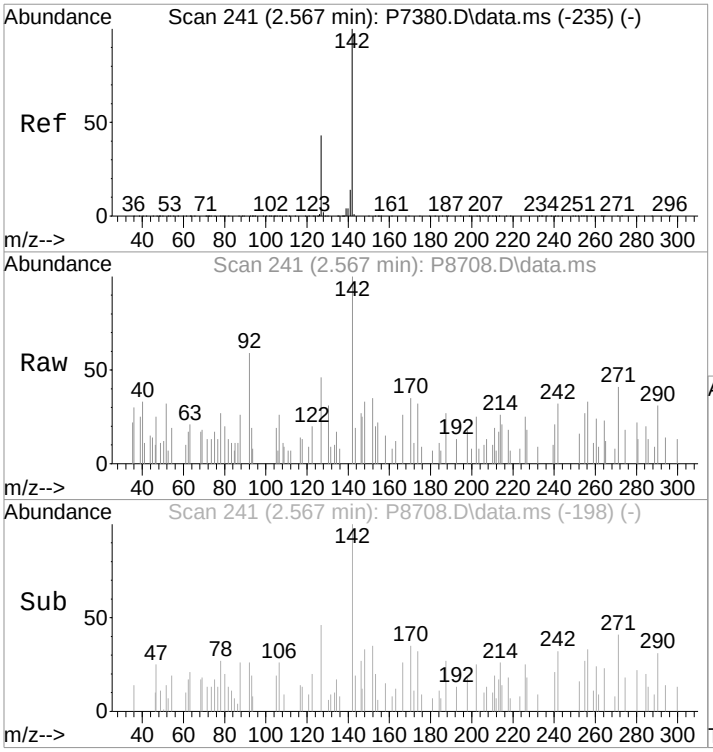


#15
Acetone
Concen: 11.46 ppb
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion: 43 Resp: 13606

Ion	Ratio	Lower	Upper
43	100		
58	18.9	6.2	46.2
42	10.4	0.0	26.9

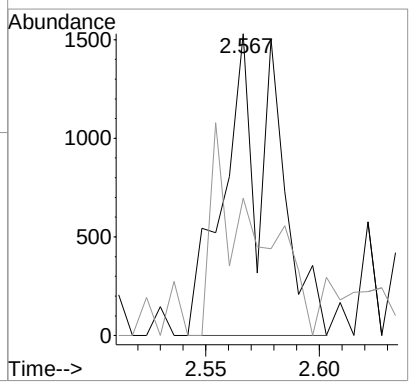


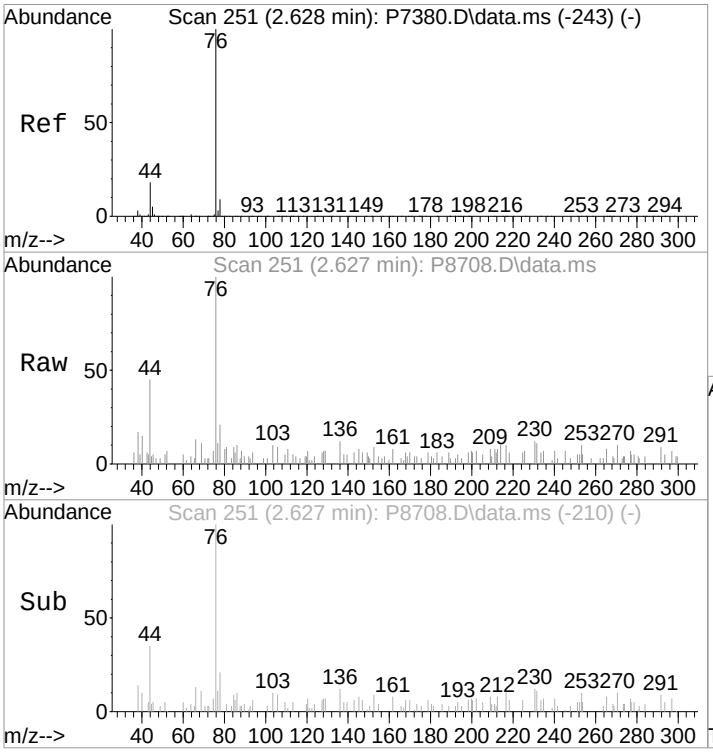


#17
Iodomethane
Concen: 0.28 ppb m
RT: 2.567 min Scan# 241
Delta R.T. 0.000 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:142 Resp: 2382

Ion	Ratio	Lower	Upper
142	100		
127	45.5	23.1	63.1

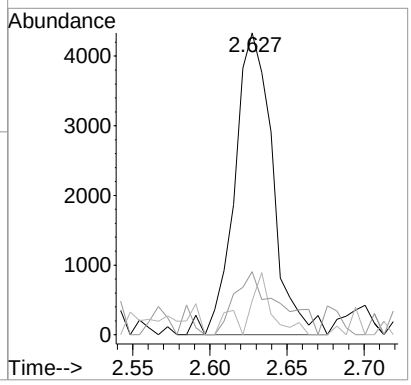


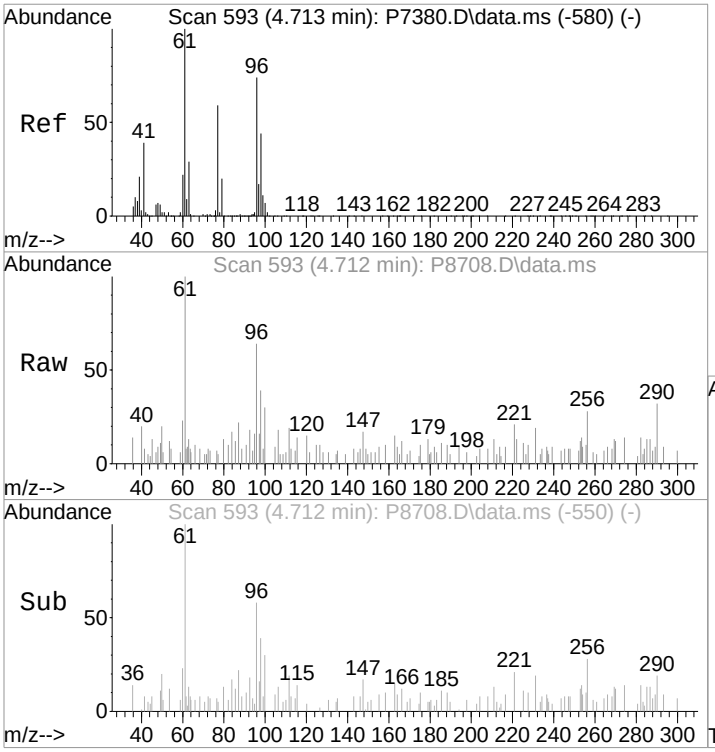


#18
Carbon Disulfide
Concen: 0.43 ppb
RT: 2.627 min Scan# 251
Delta R.T. -0.006 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion: 76 Resp: 7444

Ion	Ratio	Lower	Upper
76	100		
78	20.9	0.0	29.5
77	11.3	0.0	22.7

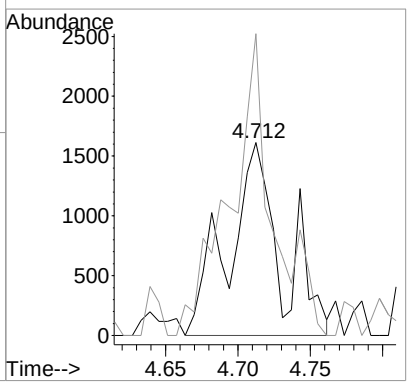


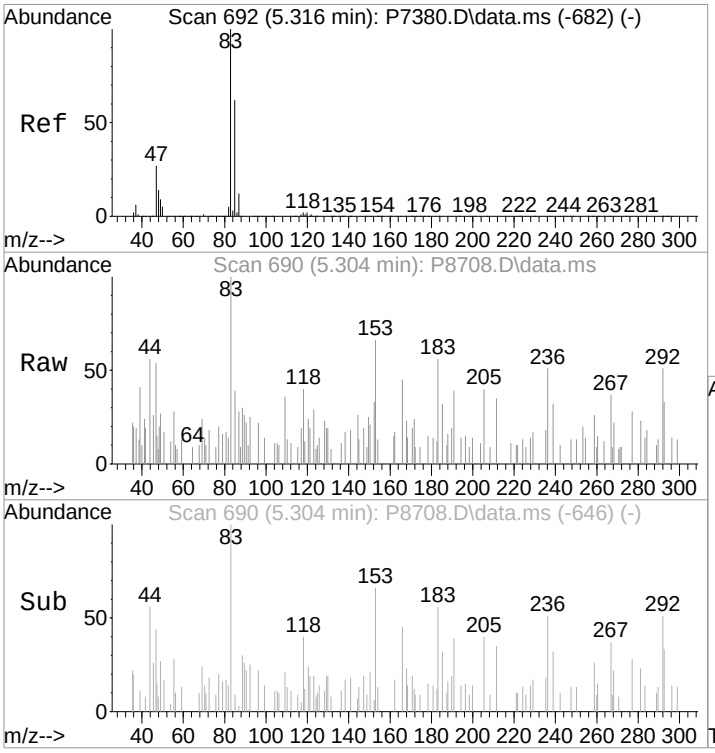


#34
cis-1,2-Dichloroethene
Concen: 0.57 ppb m
RT: 4.712 min Scan# 593
Delta R.T. 0.006 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion: 96 Resp: 4043

Ion	Ratio	Lower	Upper
96	100		
61	156.6	114.8	154.8#

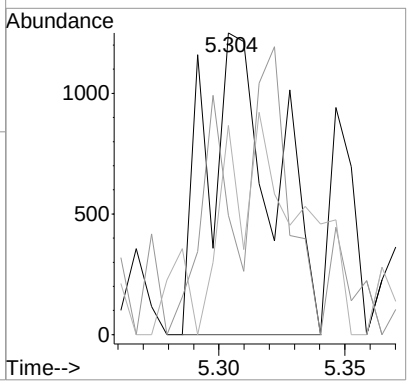


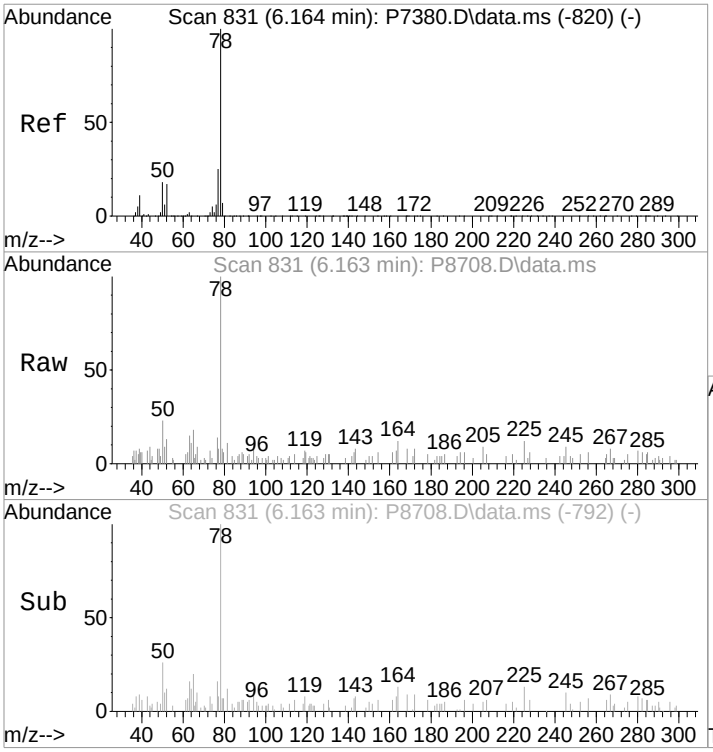


#40
Chloroform
Concen: 0.22 ppb m
RT: 5.304 min Scan# 690
Delta R.T. -0.018 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion: 83 Resp: 2352

Ion	Ratio	Lower	Upper
83	100		
85	39.5	42.3	82.3#
47	54.0	6.9	46.9#

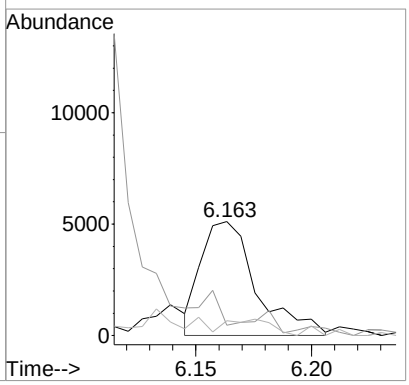


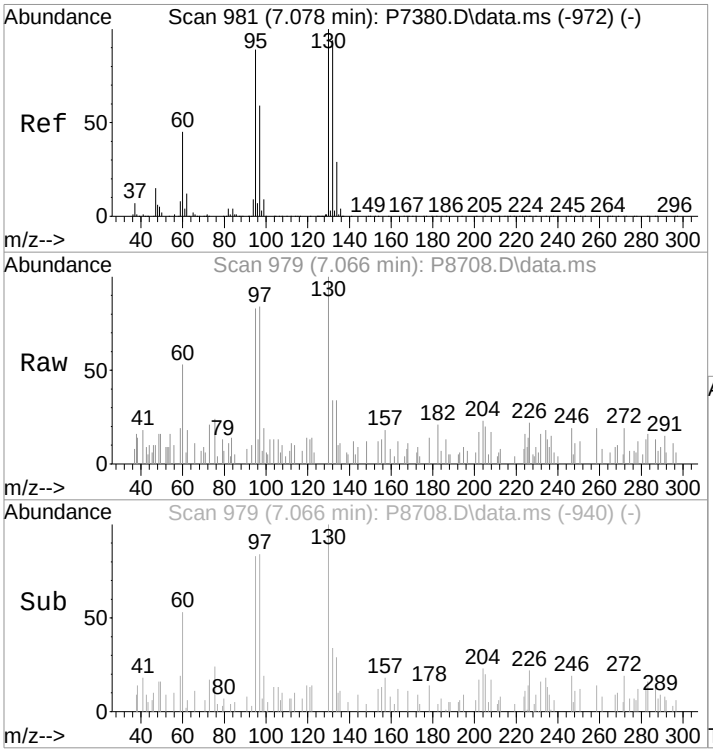


#49
Benzene
Concen: 0.36 ppb
RT: 6.163 min Scan# 831
Delta R.T. -0.006 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion: 78 Resp: 8537

Ion	Ratio	Lower	Upper
78	100		
51	9.0	0.0	38.8
52	12.9	0.0	36.9

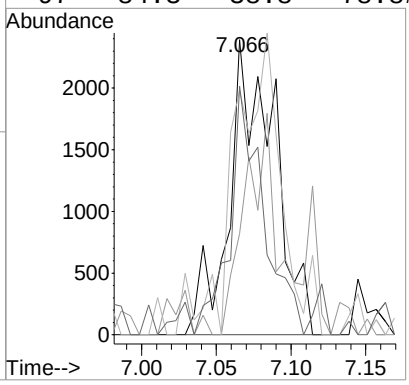


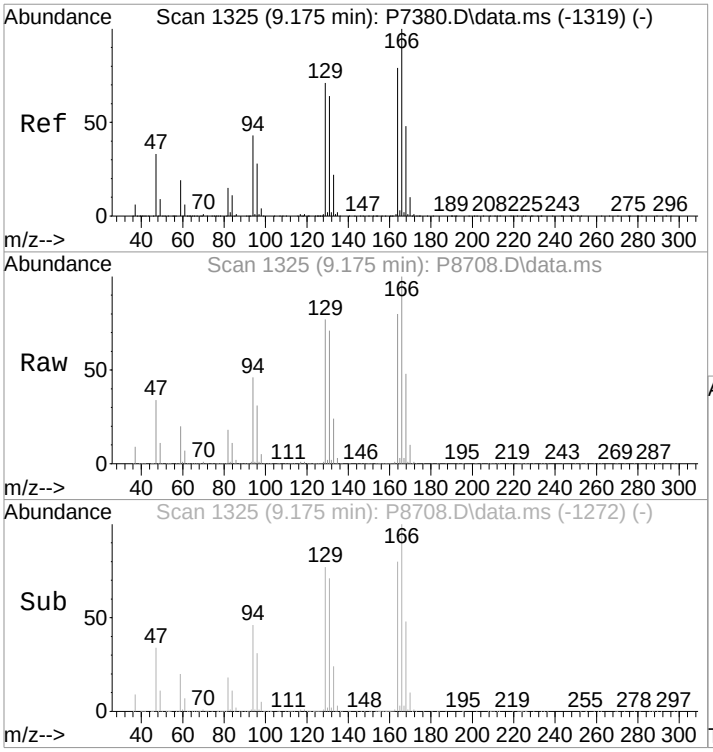


#54
Trichloroethene
Concen: 0.73 ppb m
RT: 7.066 min Scan# 979
Delta R.T. -0.012 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:130 Resp: 5045

Ion	Ratio	Lower	Upper
130	100		
132	34.3	74.2	114.2#
95	82.9	69.4	109.4
97	84.3	38.8	78.8#

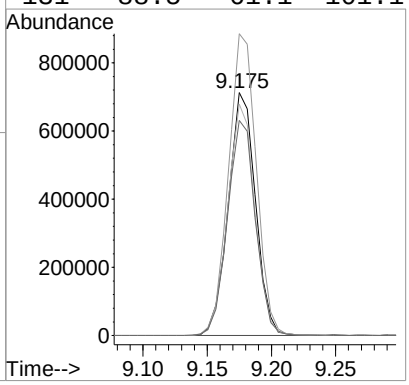


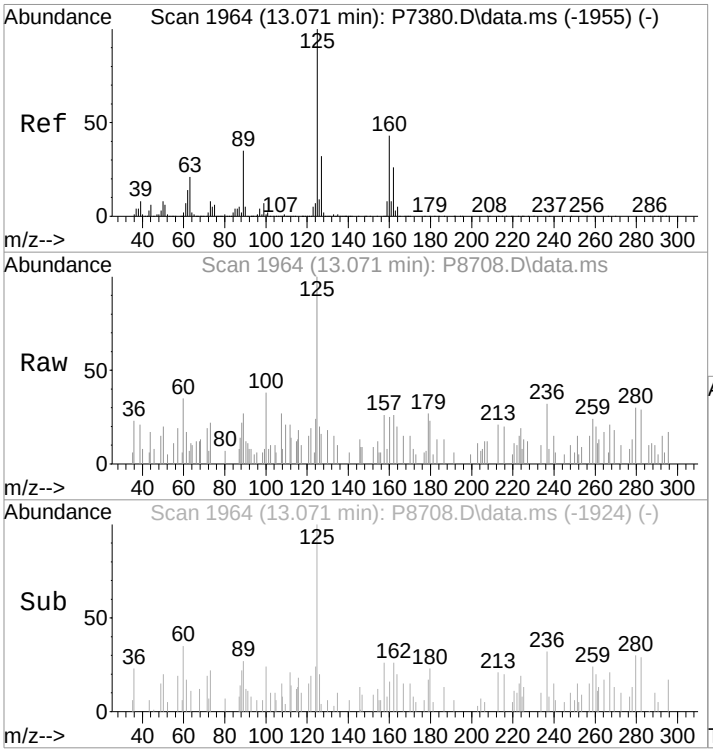


#72
Tetrachloroethene
Concen: 195.83 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:164 Resp: 1052756

Ion	Ratio	Lower	Upper
164	100		
166	124.3	106.8	146.8
129	95.3	69.7	109.7
131	88.5	61.1	101.1

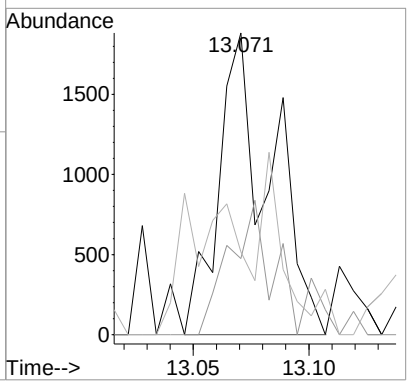


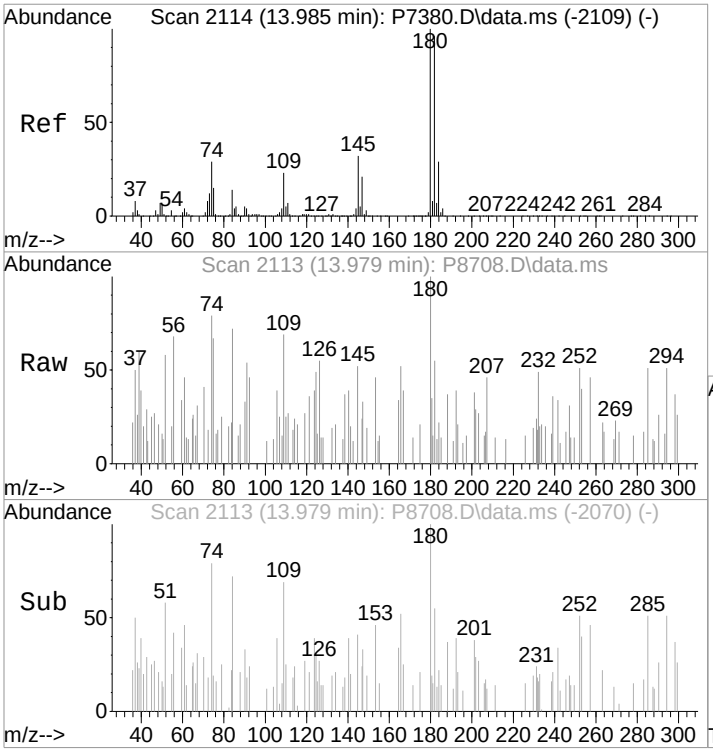


#112
Trielution Dichlorotoluene
Concen: 0.28 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:125 Resp: 2957

Ion	Ratio	Lower	Upper
125	100		
160	25.2	34.6	51.8#
89	27.4	28.0	42.0#

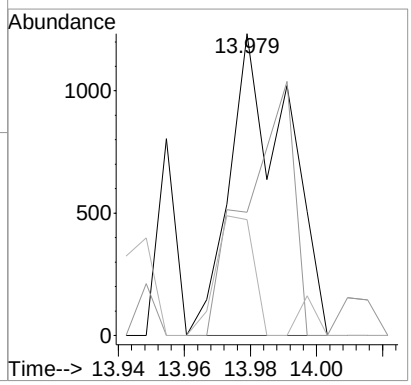


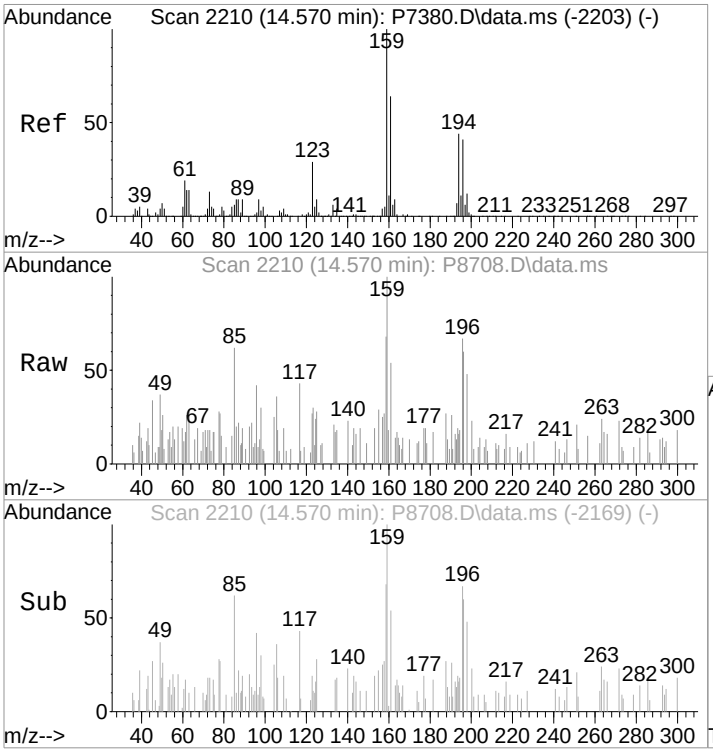


#118
1,2,3-Tclbenzene
Concen: 0.23 ppb
RT: 13.979 min Scan# 2113
Delta R.T. -0.006 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:180 Resp: 1493

Ion	Ratio	Lower	Upper
180	100		
182	40.8	75.9	115.9#
145	38.4	11.8	51.8

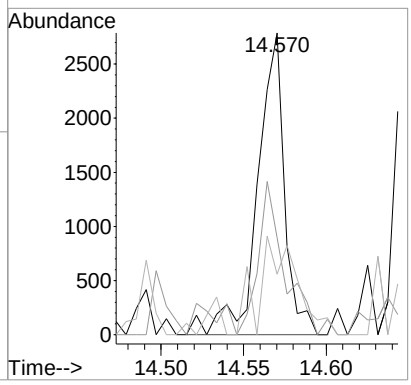


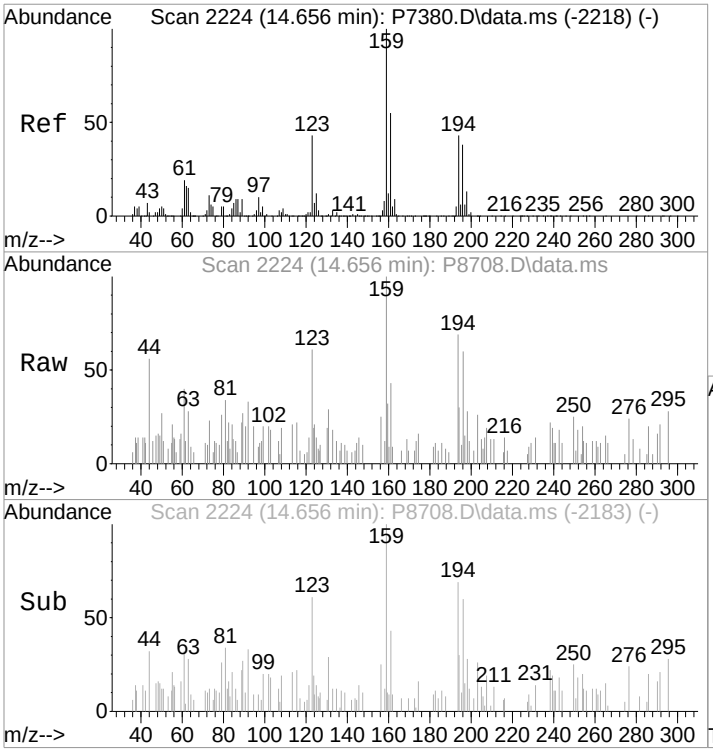


#119
2,4,5-Trichlorotolene
Concen: 0.62 ppb
RT: 14.570 min Scan# 2210
Delta R.T. 0.000 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:159 Resp: 3174

Ion	Ratio	Lower	Upper
159	100		
161	32.1	51.0	76.4#
194	20.0	35.4	53.2#

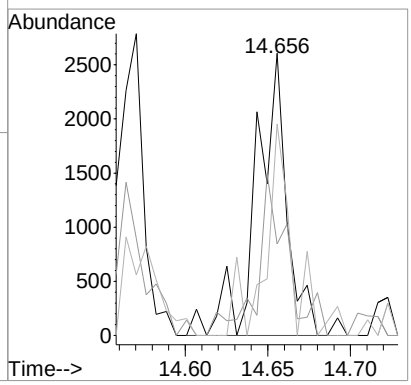




#120
2,3,6-Trichlorotoluene
Concen: 0.79 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P8708.D
Acq: 27 Mar 2017 12:53 pm

Tgt Ion:159 Resp: 3389

Ion	Ratio	Lower	Upper
159	100		
161	32.5	44.3	66.5#
194	75.0	34.8	52.2#

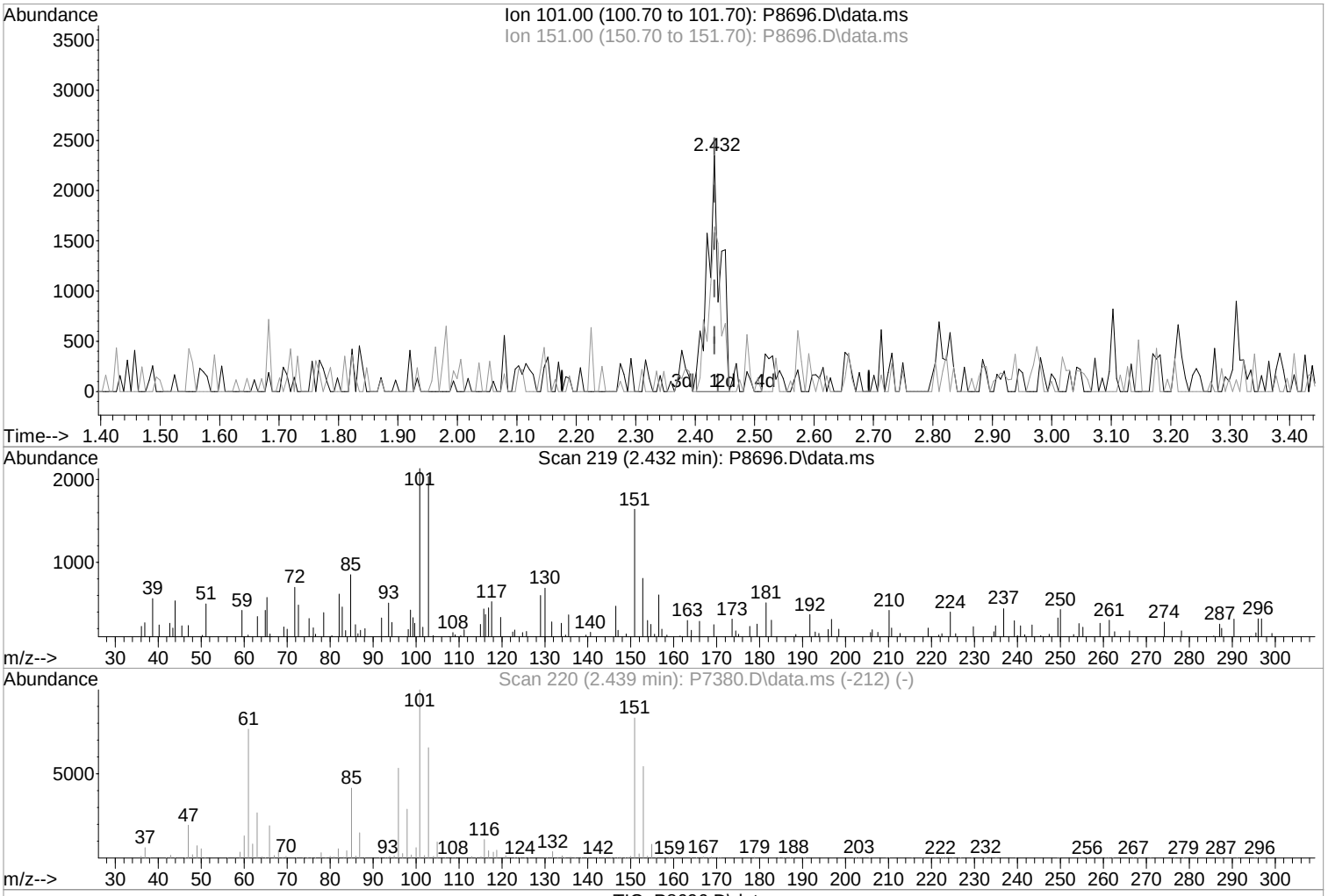


1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8696.D
Acq On : 25 Mar 2017 6:42 am
Operator : K.Ruest
Sample : R1702492-015|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 27 09:40:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8696.D\data.ms

(14) Freon 113 (P)

2.432min (+0.000) 0.59 ppb m

response 3572

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	76.85
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

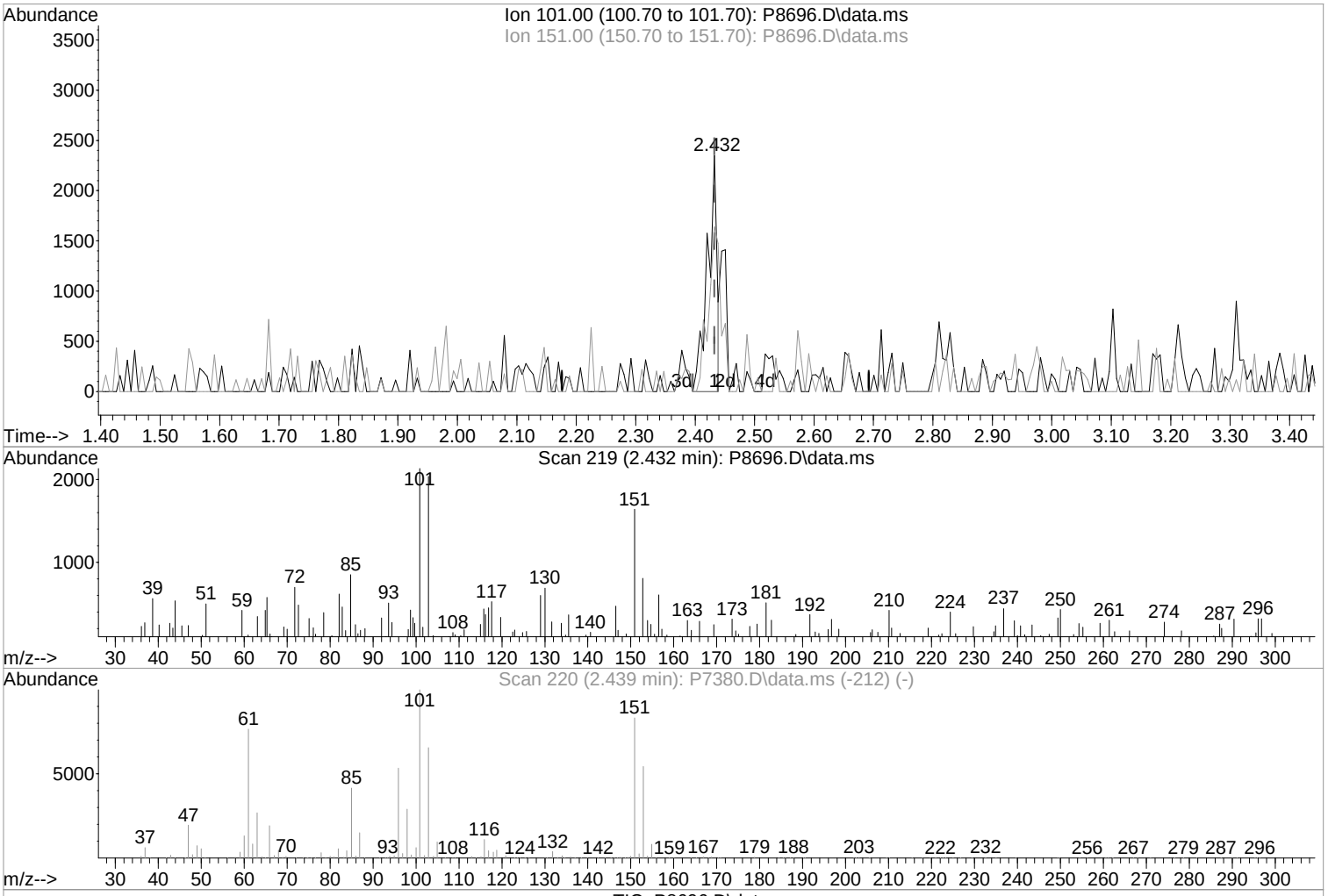
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8696.D
Acq On : 25 Mar 2017 6:42 am
Operator : K.Ruest
Sample : R1702492-015|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 27 09:40:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8696.D\data.ms

(14) Freon 113 (P)

2.432min (+0.000) 0.44 ppb

response 2620

Ion	Exp%	Act%
101.00	100	100
151.00	83.30	69.76
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

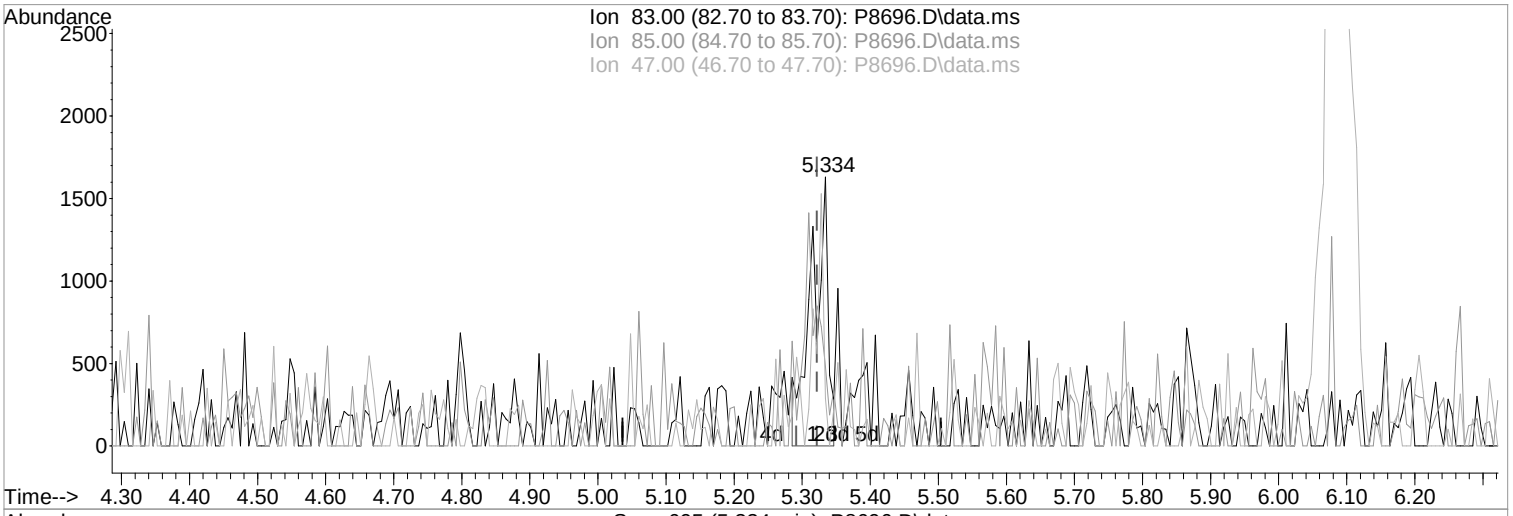
Before

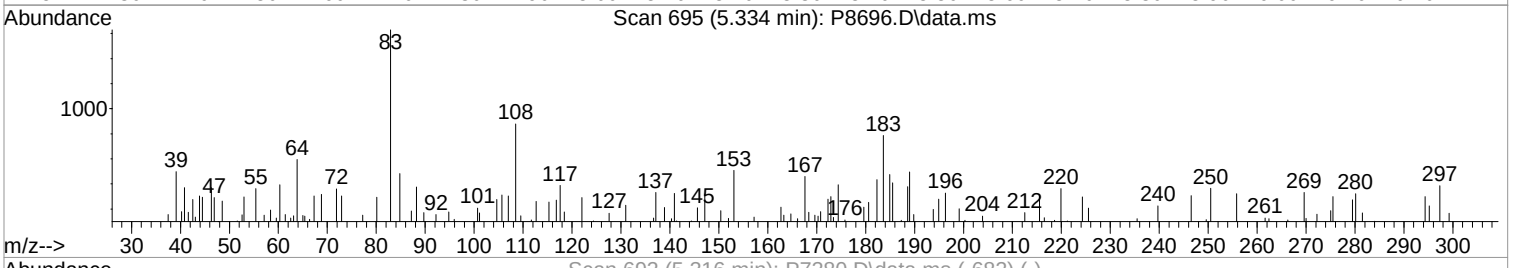
03/27/17

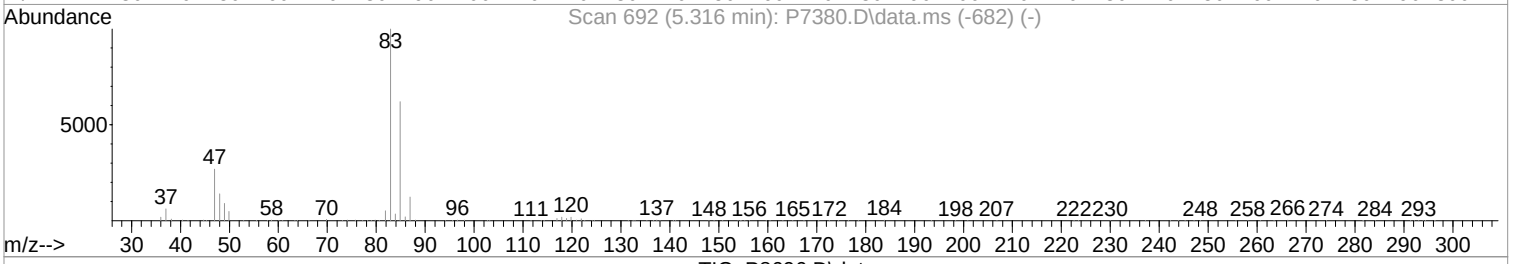
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8696.D
Acq On : 25 Mar 2017 6:42 am
Operator : K.Ruest
Sample : R1702492-015|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 27 09:40:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8696.D\data.ms

(40) Chloroform (P)

5.334min (+0.012) 0.26 ppb m

response 2681

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	29.57#
47.00	26.90	17.79
0.00	0.00	0.00

Manual Integration:

After

Split Peak

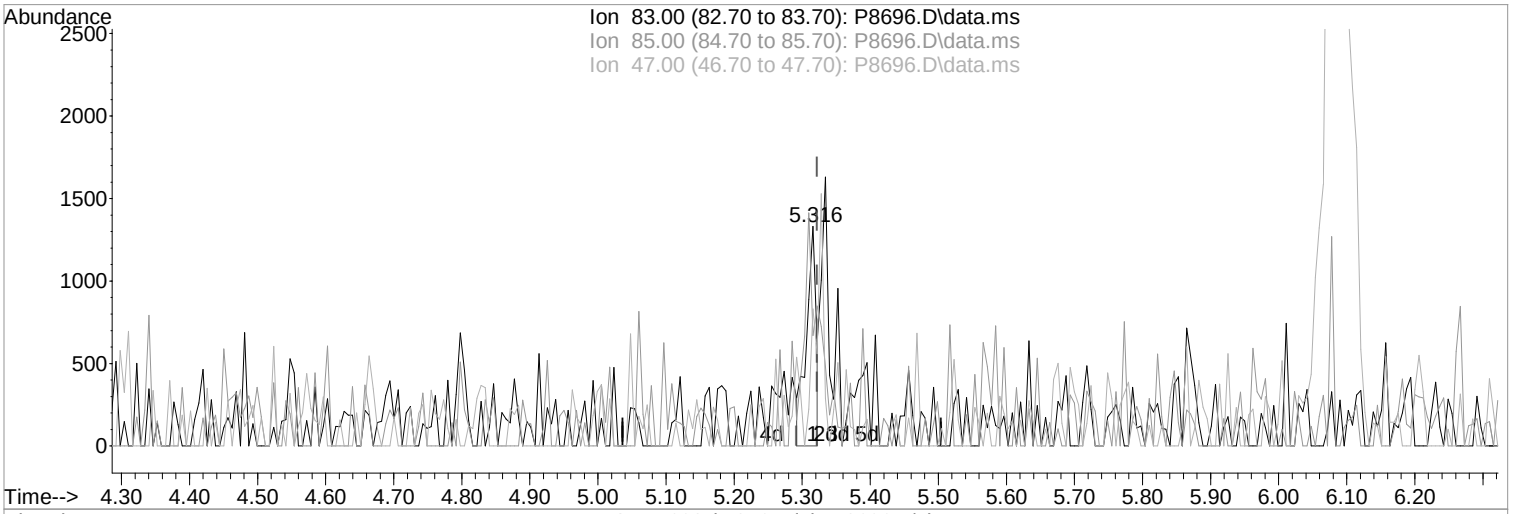
03/27/17

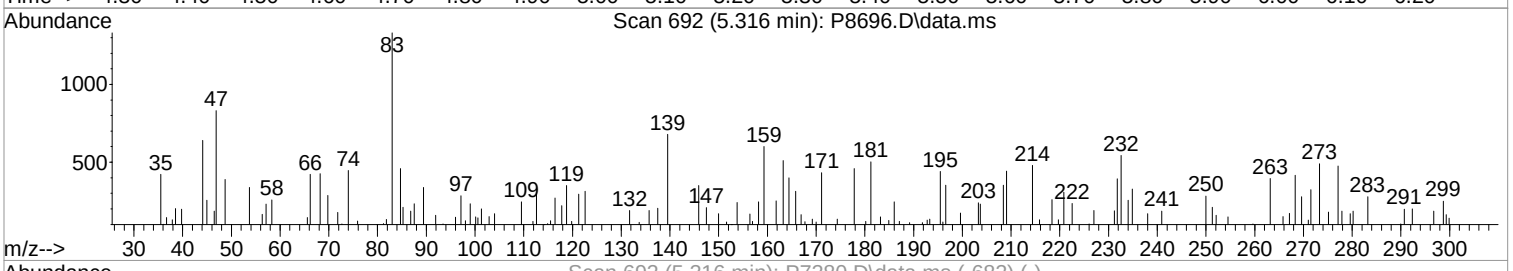
1st 03/27/17
2nd 03/28/17

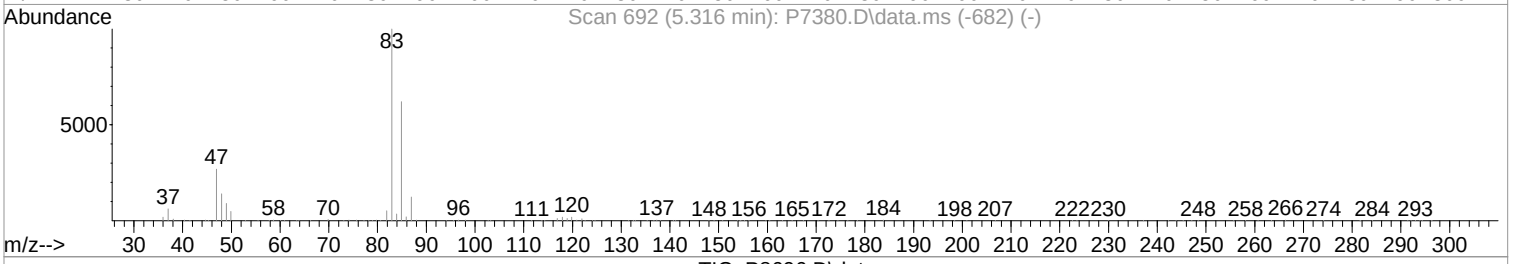
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8696.D
Acq On : 25 Mar 2017 6:42 am
Operator : K.Ruest
Sample : R1702492-015|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 27 09:40:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8696.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.13 ppb

response 1349

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	50.30
47.00	26.90	62.39#
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8696.D
Acq On : 25 Mar 2017 6:42 am
Operator : K.Ruest
Sample : R1702492-015|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

rpt 20

Quant Time: Mar 27 15:46:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.724	168	785028	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1285871	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1179059	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	597366	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.578	113	371719	53.57	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.14%				
48) surr1,1,2-dichloroetha...	6.090	65	441773	57.34	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 114.68%				
65) SURR3,Toluene-d8	8.523	98	1599648	55.76	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.52%				
70) SURR2,BFB	11.047	95	557351	50.14	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.28%				
Target Compounds							Qvalue
14) Freon 113	2.432	101	3572m	0.59	ppb		
15) Acetone	2.475	43	5045	4.38	ppb		81
18) Carbon Disulfide	2.621	76	6216	0.37	ppb		80
22) Methylene Chloride	2.914	84	2352	0.39	ppb	#	80
40) Chloroform	5.334	83	2681m	0.26	ppb		
72) Tetrachloroethene	9.175	164	1310046	256.16	ppb		95

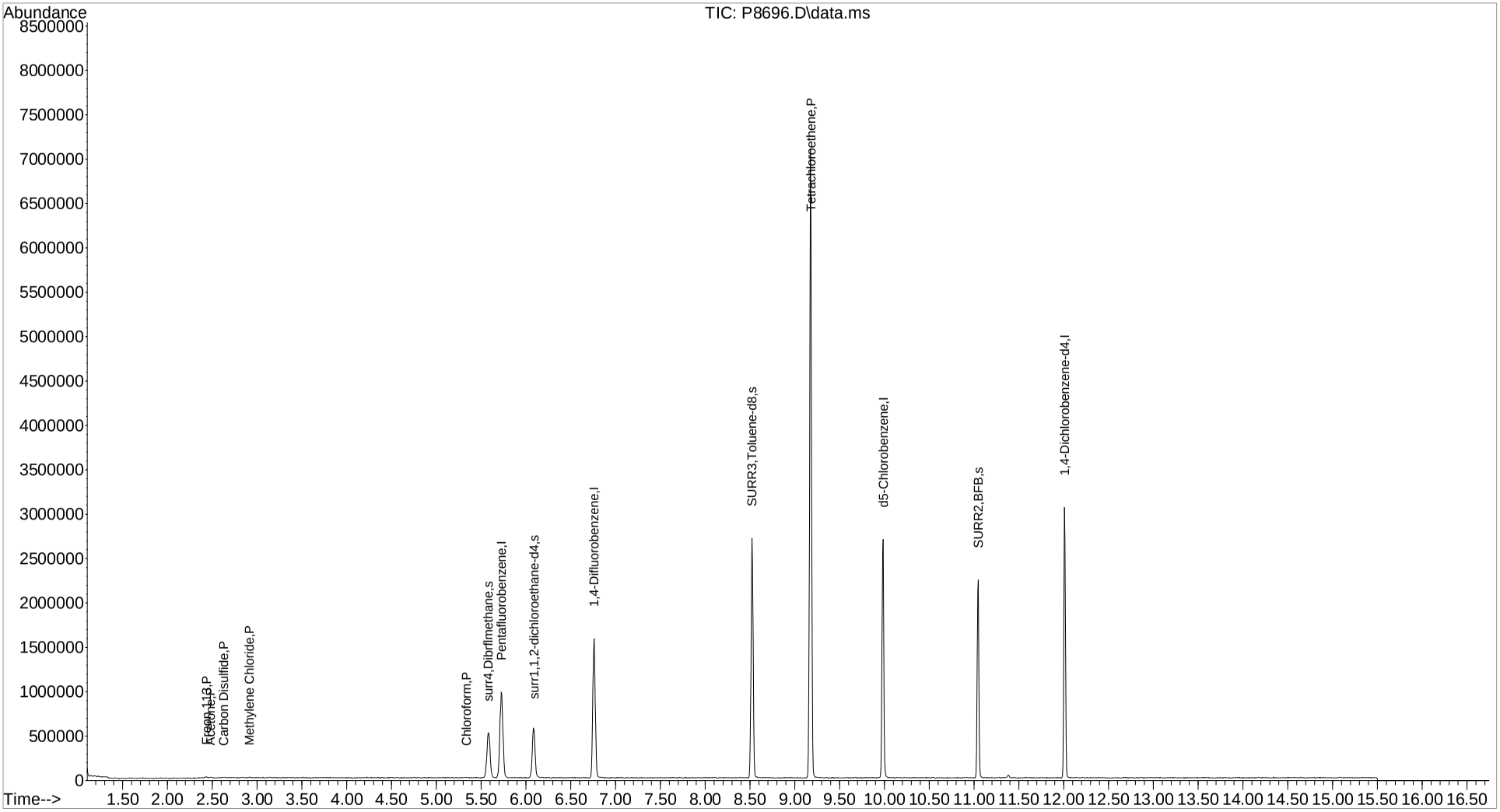
E-Over Calibration

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

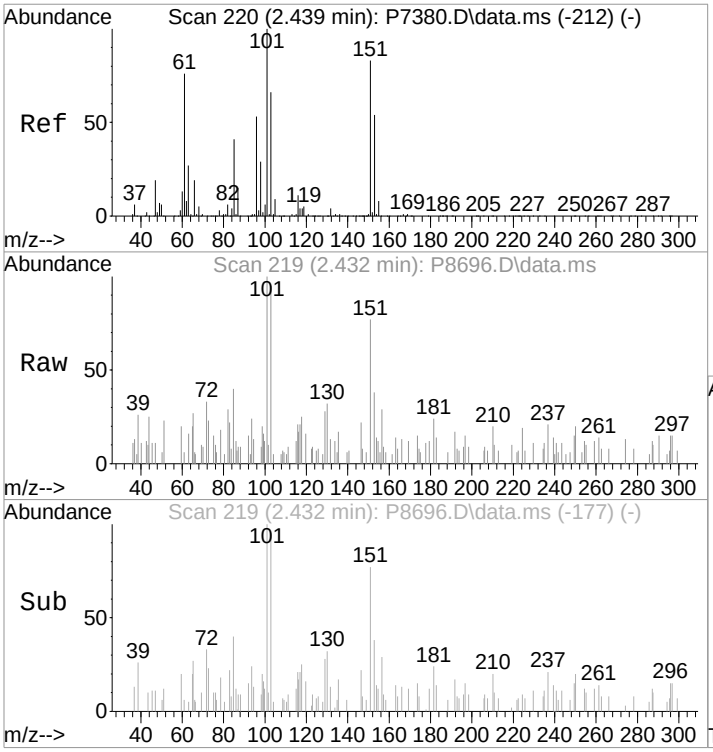
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8696.D
Acq On : 25 Mar 2017 6:42 am
Operator : K.Ruest
Sample : R1702492-015|10 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 27 15:46:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



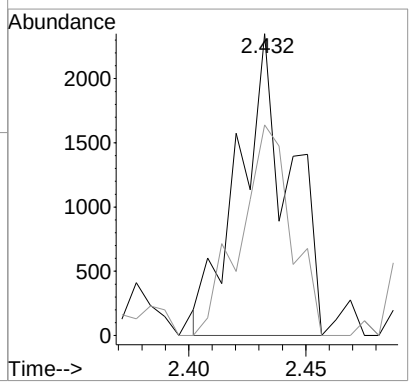
1st 03/27/17
2nd 03/28/17

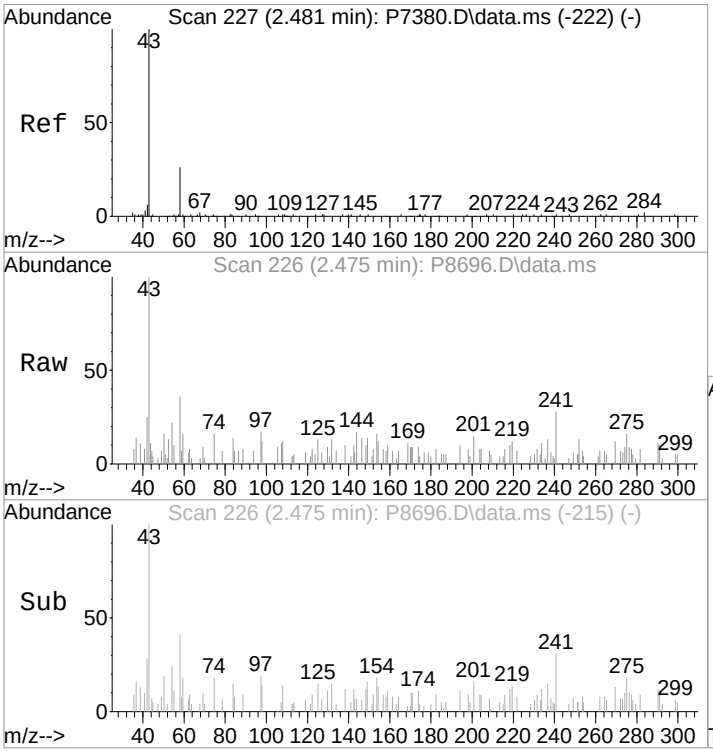


#14
Freon 113
Concen: 0.59 ppb m
RT: 2.432 min Scan# 219
Delta R.T. 0.000 min
Lab File: P8696.D
Acq: 25 Mar 2017 6:42 am

Tgt Ion:101 Resp: 3572

Ion	Ratio	Lower	Upper
101	100		
151	76.9	63.3	103.3

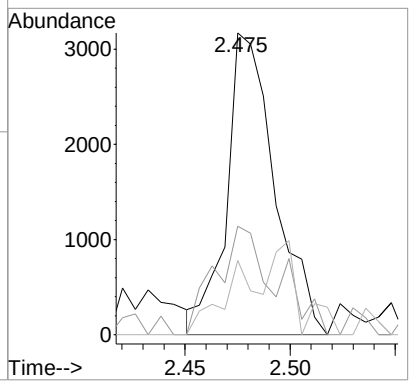


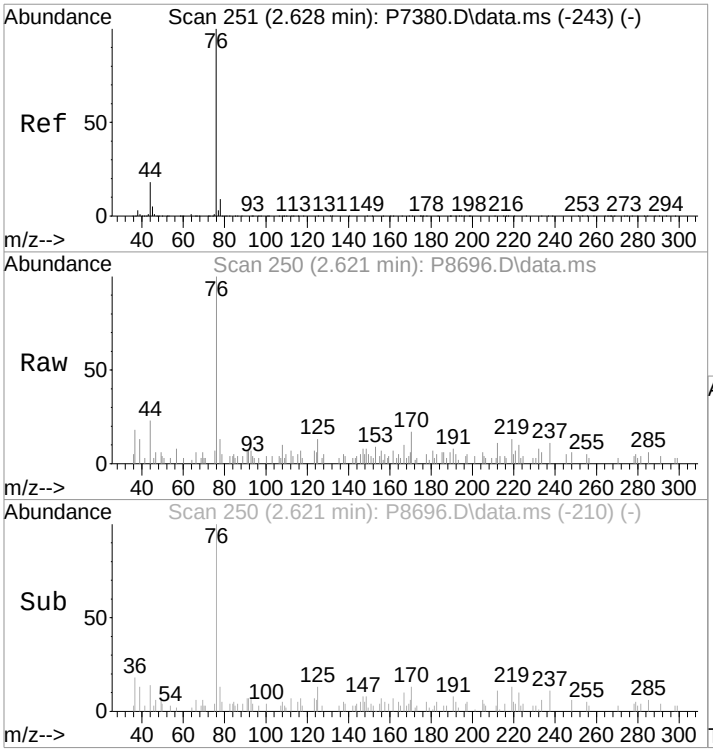


#15
Acetone
Concen: 4.38 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P8696.D
Acq: 25 Mar 2017 6:42 am

Tgt Ion: 43 Resp: 5045

Ion	Ratio	Lower	Upper
43	100		
58	32.5	6.2	46.2
42	22.2	0.0	26.9

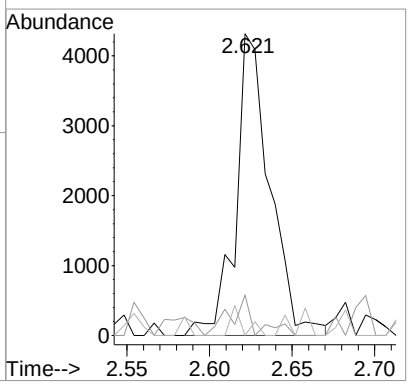


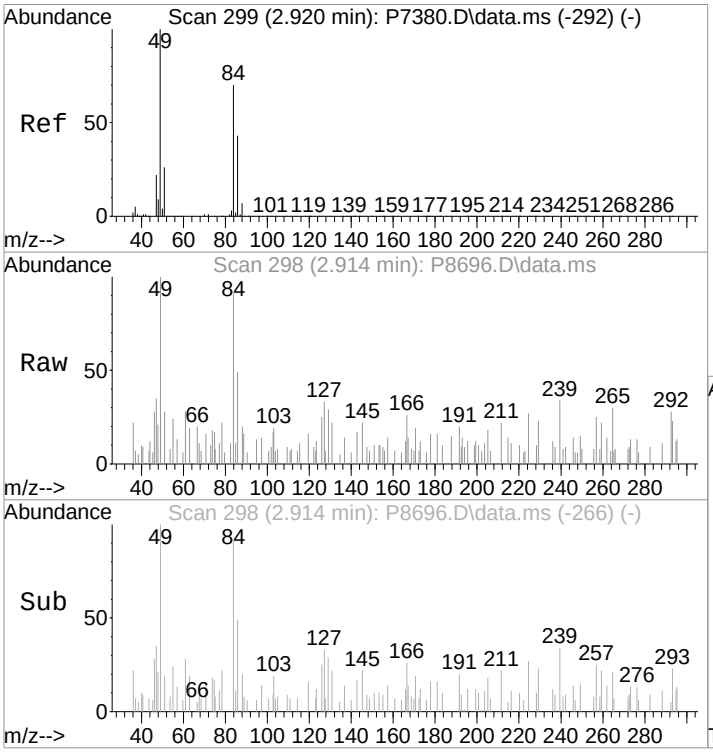


#18
Carbon Disulfide
Concen: 0.37 ppb
RT: 2.621 min Scan# 250
Delta R.T. -0.012 min
Lab File: P8696.D
Acq: 25 Mar 2017 6:42 am

Tgt Ion: 76 Resp: 6216

Ion	Ratio	Lower	Upper
76	100		
78	18.0	0.0	29.5
77	0.0	0.0	22.7

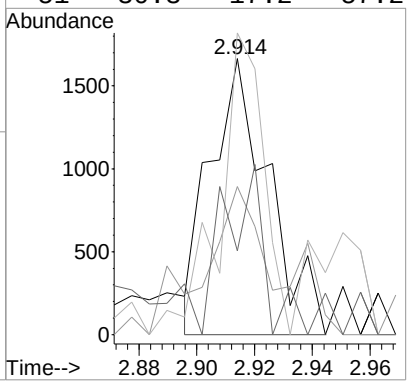


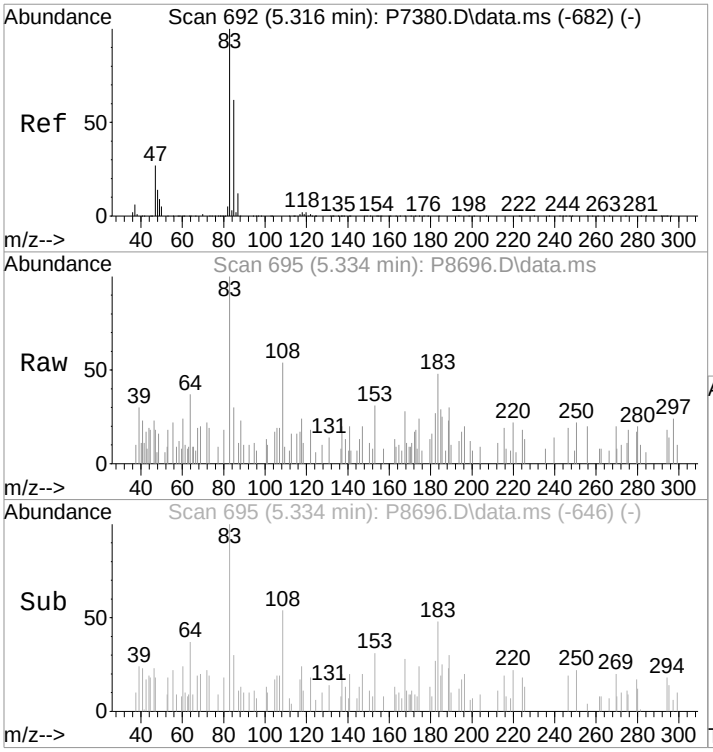


#22
Methylene Chloride
Concen: 0.39 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P8696.D
Acq: 25 Mar 2017 6:42 am

Tgt Ion: 84 Resp: 2352

Ion	Ratio	Lower	Upper
84	100		
86	53.7	41.5	81.5
49	109.4	122.0	162.0#
51	30.3	17.2	57.2

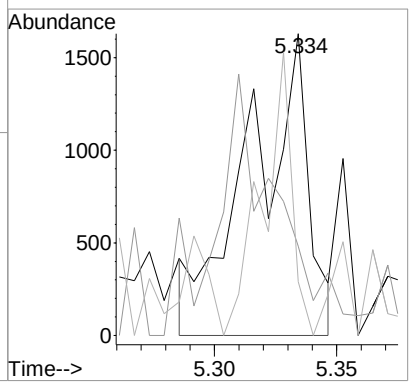


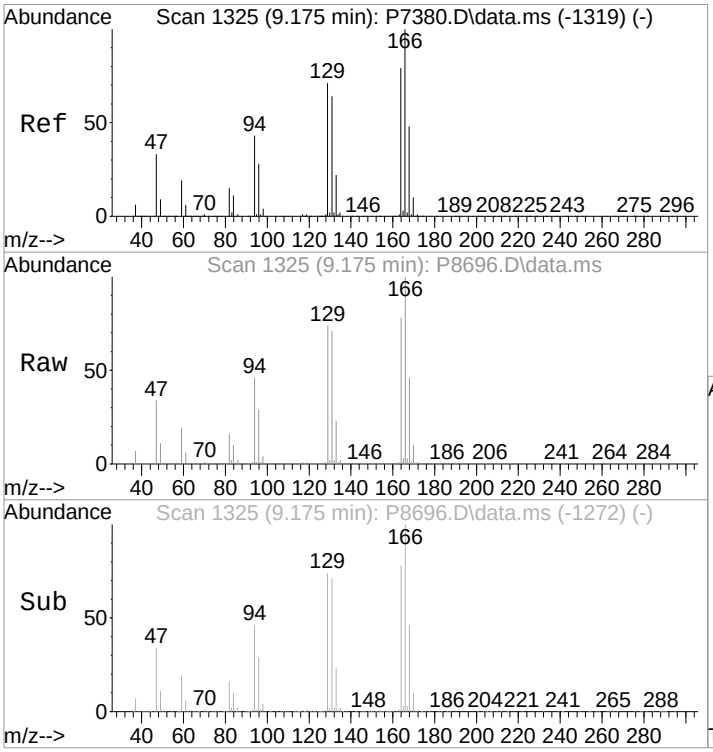


#40
Chloroform
Concen: 0.26 ppb m
RT: 5.334 min Scan# 695
Delta R.T. 0.012 min
Lab File: P8696.D
Acq: 25 Mar 2017 6:42 am

Tgt Ion: 83 Resp: 2681

Ion	Ratio	Lower	Upper
83	100		
85	29.6	42.3	82.3#
47	17.8	6.9	46.9

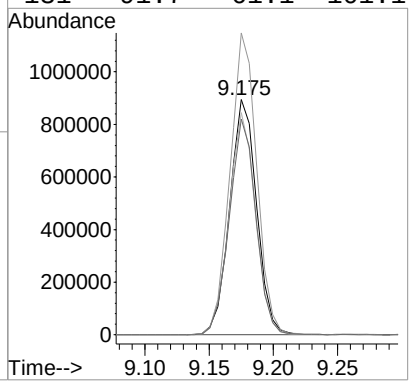




#72
Tetrachloroethene
Concen: 256.16 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8696.D
Acq: 25 Mar 2017 6:42 am

Tgt Ion:164 Resp: 1310046

Ion	Ratio	Lower	Upper
164	100		
166	128.3	106.8	146.8
129	94.3	69.7	109.7
131	91.7	61.1	101.1

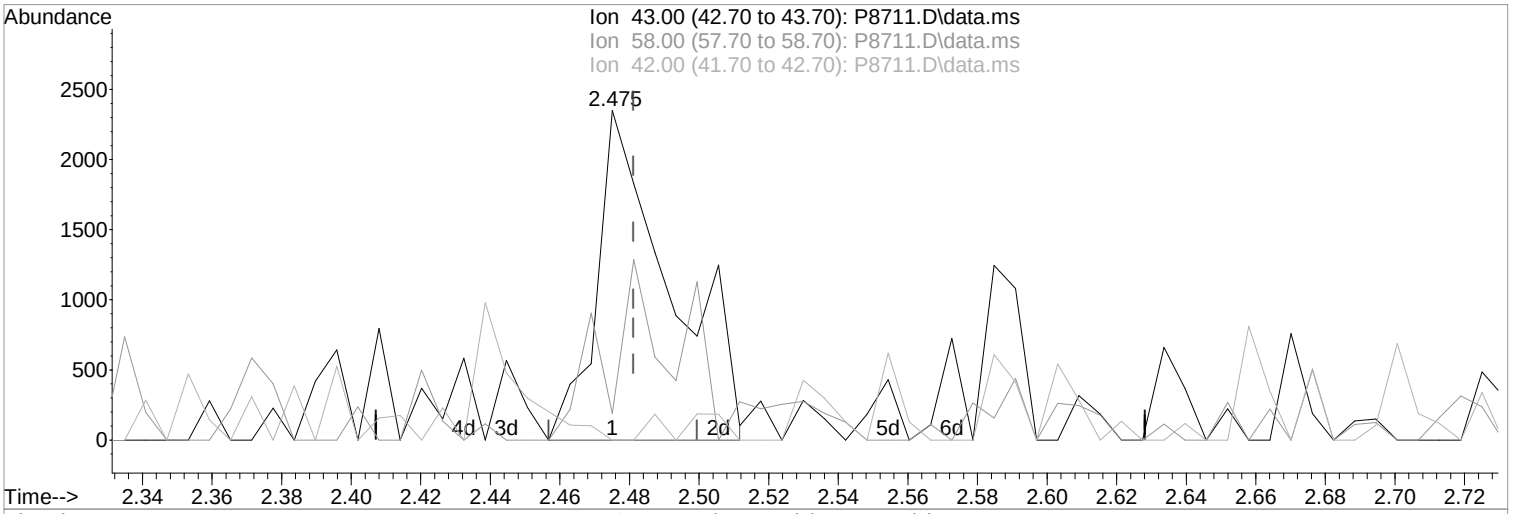


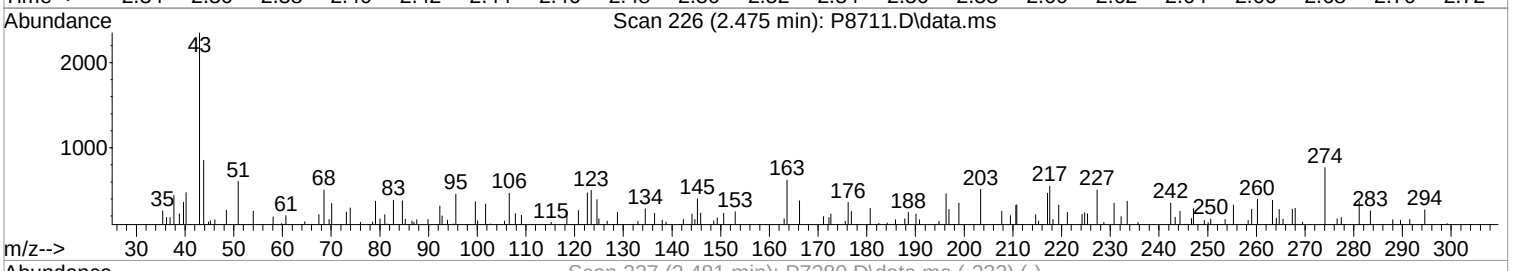
1st 03/28/17
2nd 03/28/17

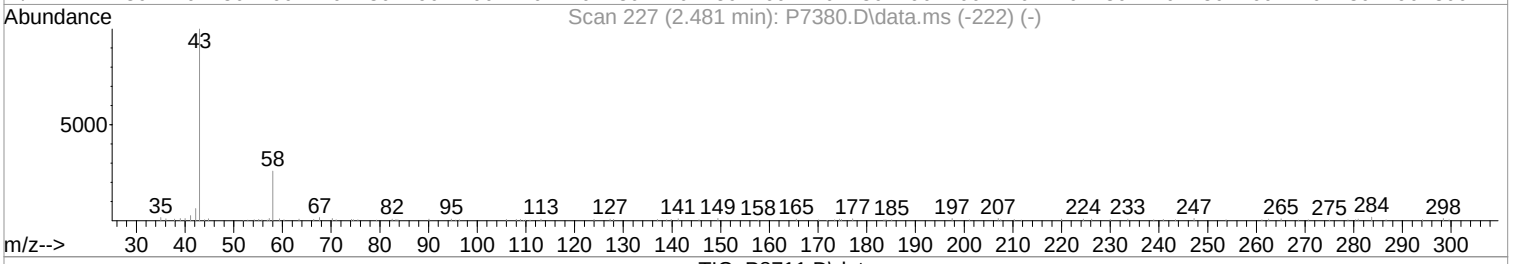
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8711.D
Acq On : 27 Mar 2017 2:23 pm
Operator : K.Ruest
Sample : R1702492-015|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 27 14:40:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8711.D\data.ms

(15) Acetone (P)

2.475min (-0.006) 2.90 ppb m

response 3454

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	8.04
42.00	6.90	0.00
0.00	0.00	0.00

Manual Integration:

After

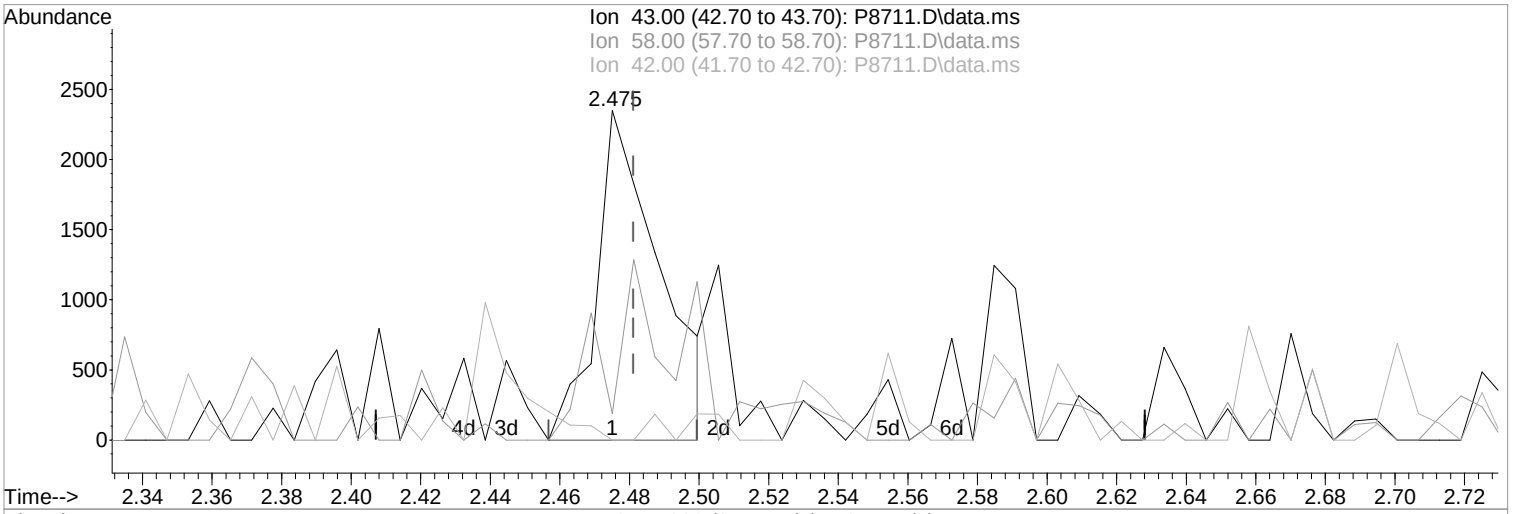
Split Peak

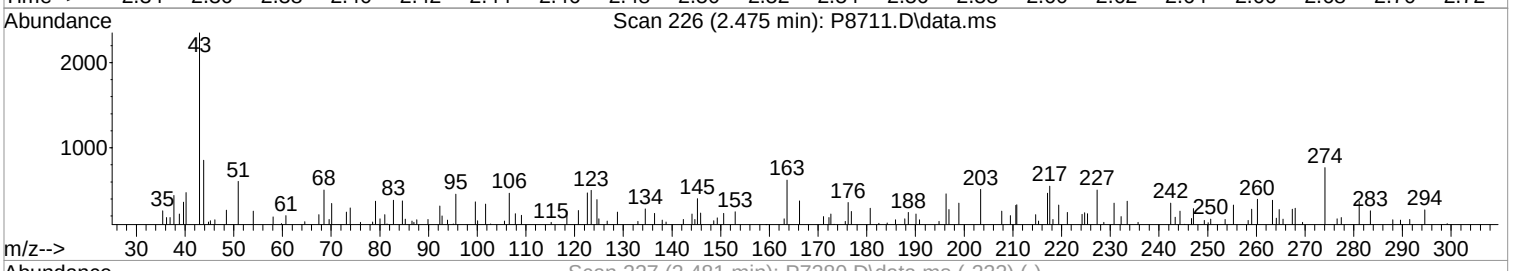
03/28/17

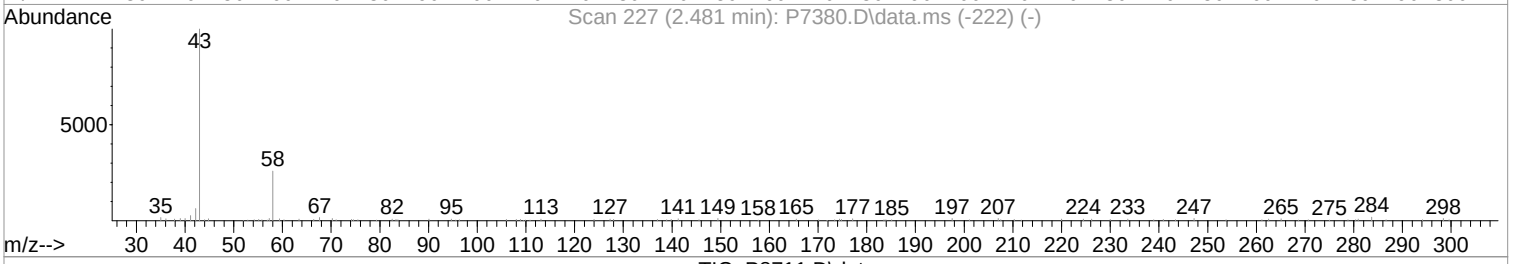
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8711.D
Acq On : 27 Mar 2017 2:23 pm
Operator : K.Ruest
Sample : R1702492-015|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 27 14:40:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8711.D\data.ms

(15) Acetone (P)

2.475min (-0.006) 2.49 ppb

response 2960

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	8.04
42.00	6.90	0.00
0.00	0.00	0.00

Manual Integration:

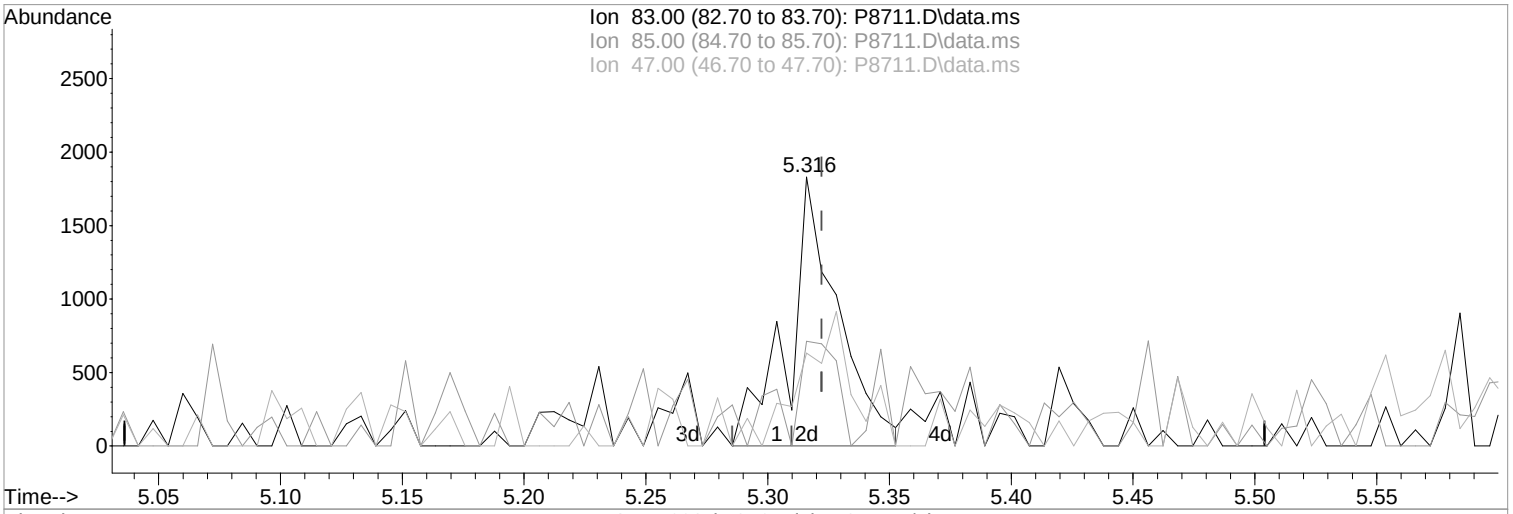
Before

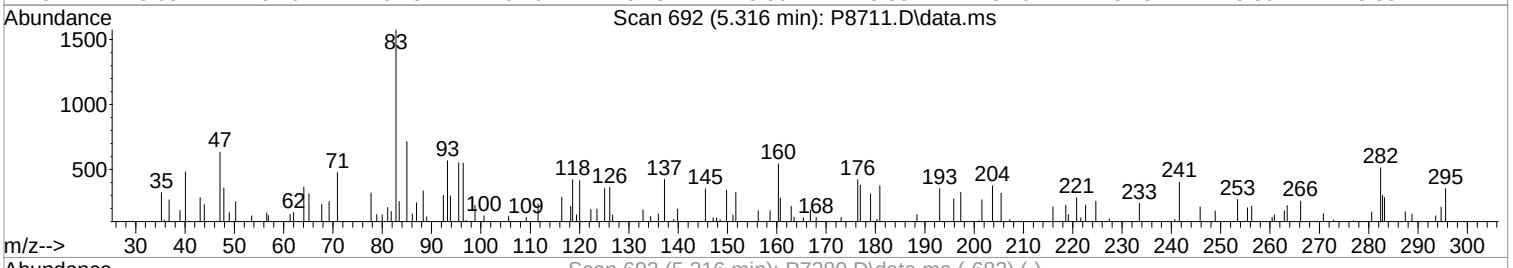
03/28/17

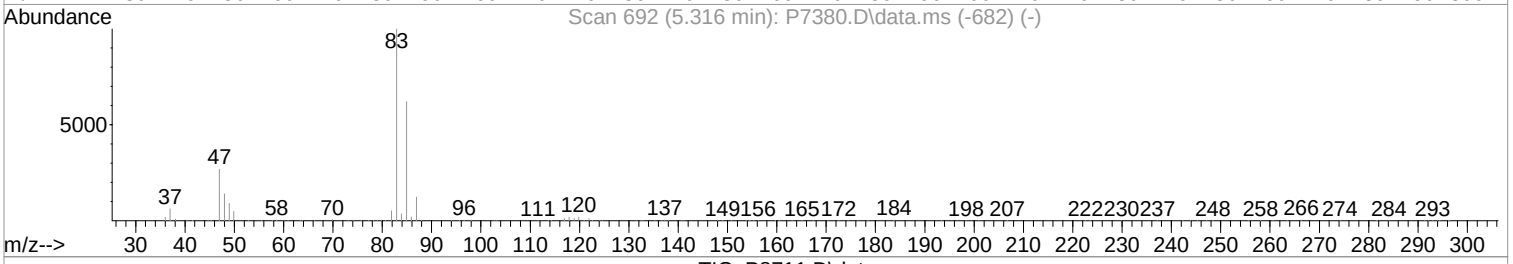
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8711.D
Acq On : 27 Mar 2017 2:23 pm
Operator : K.Ruest
Sample : R1702492-015|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 27 14:40:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8711.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.24 ppb m

response 2601

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	45.30
47.00	26.90	40.16
0.00	0.00	0.00

Manual Integration:

After

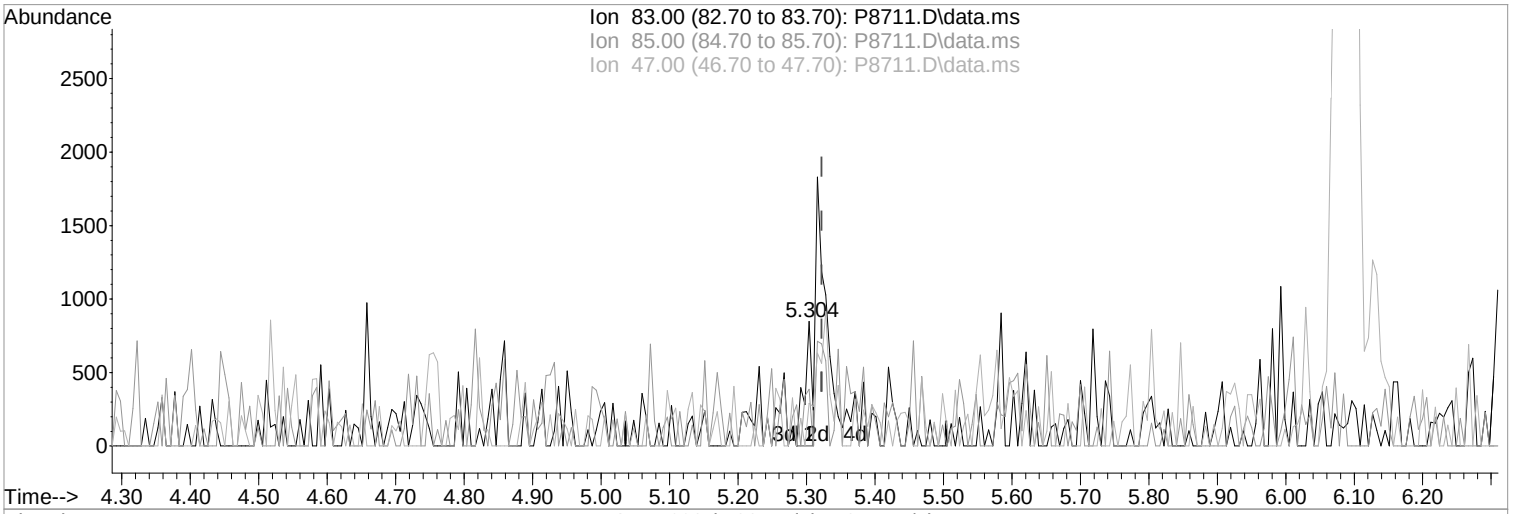
Split Peak

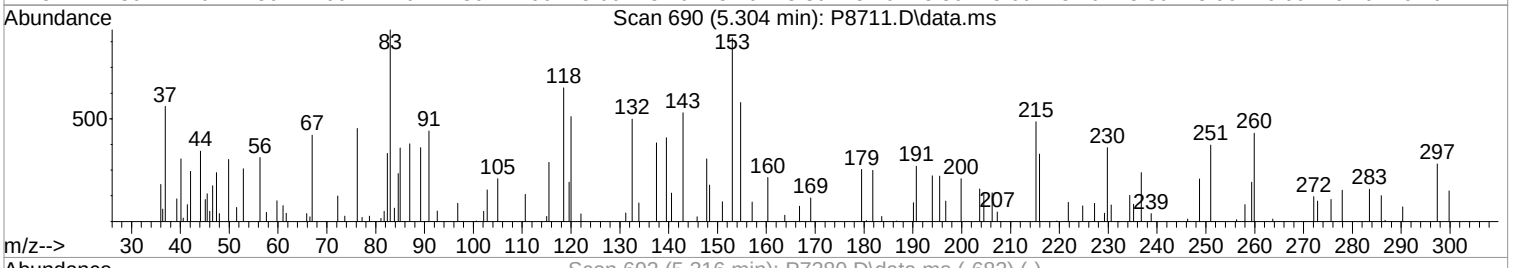
03/28/17

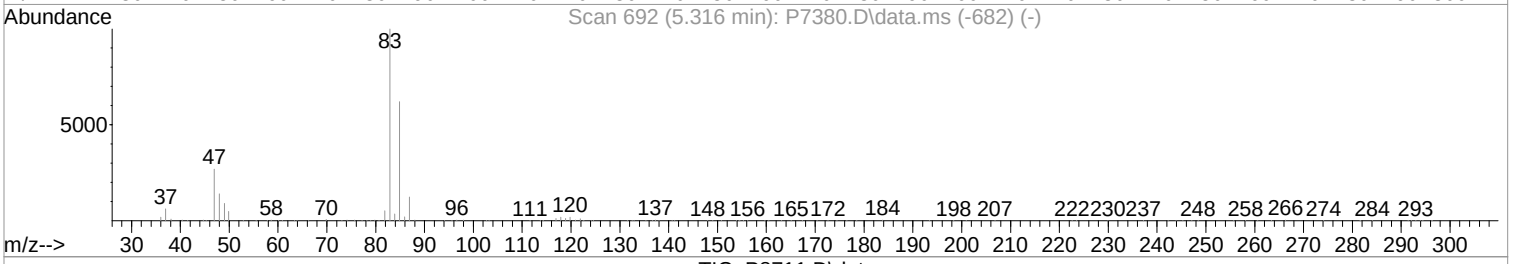
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8711.D
Acq On : 27 Mar 2017 2:23 pm
Operator : K.Ruest
Sample : R1702492-015|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 27 14:40:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8711.D\data.ms

(40) Chloroform (P)

5.304min (-0.018) 0.06 ppb

response 649

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	45.57
47.00	26.90	34.24
0.00	0.00	0.00

Manual Integration:

Before

03/28/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8711.D
Acq On : 27 Mar 2017 2:23 pm
Operator : K.Ruest
Sample : R1702492-015|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 11 Sample Multiplier: 1

dil

Quant Time: Mar 28 11:54:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

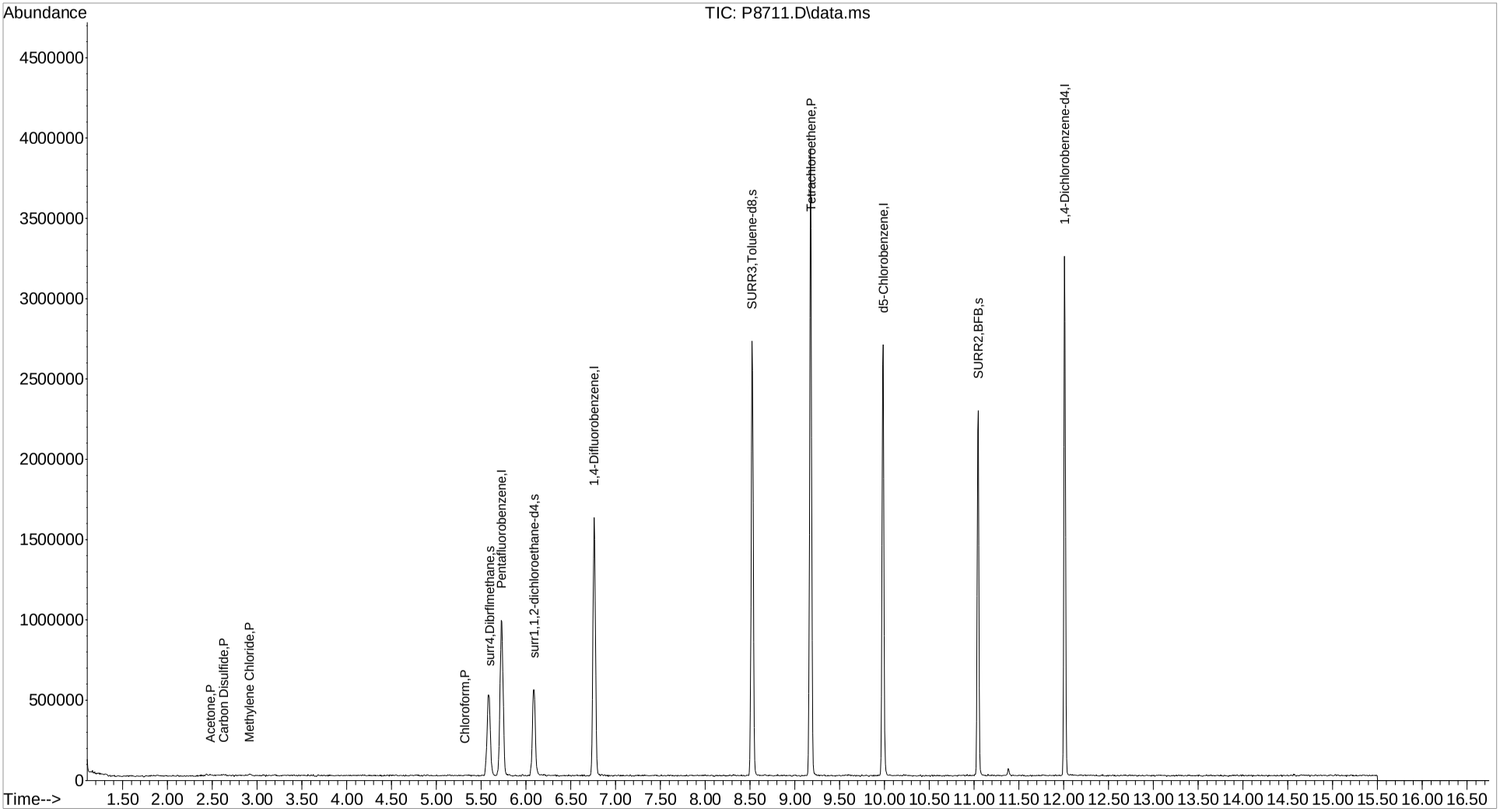
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.724	168	810944	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1299850	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1216761	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	614490	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	380024	54.18	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.36%				
48) surr1,1,2-dichloroetha...	6.090	65	442363	56.80	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 113.60%				
65) SURR3,Toluene-d8	8.523	98	1622641	55.95	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.90%				
70) SURR2,BFB	11.047	95	580012	51.62	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.24%				
Target Compounds							Qvalue
15) Acetone	2.475	43	3454m	2.90	ppb		
18) Carbon Disulfide	2.621	76	6224	0.36	ppb		96
22) Methylene Chloride	2.914	84	2751	0.44	ppb	#	76
40) Chloroform	5.316	83	2601m	0.24	ppb		
72) Tetrachloroethene	9.175	164	751315	142.36	ppb		94

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

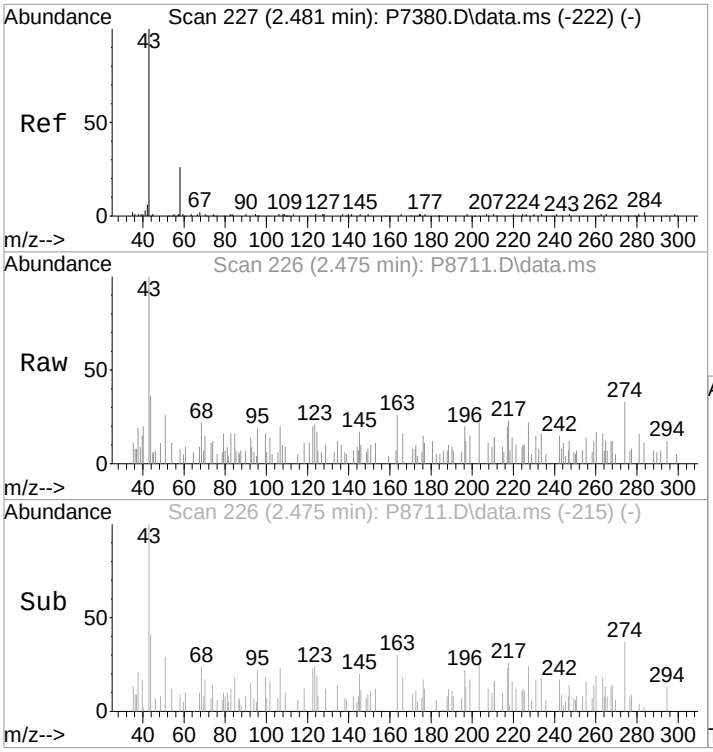
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8711.D
Acq On : 27 Mar 2017 2:23 pm
Operator : K.Ruest
Sample : R1702492-015|20 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 11:54:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



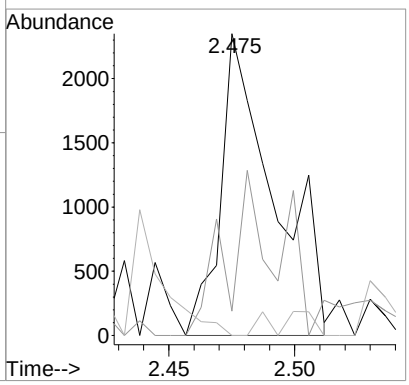
1st 03/28/17
2nd 03/28/17

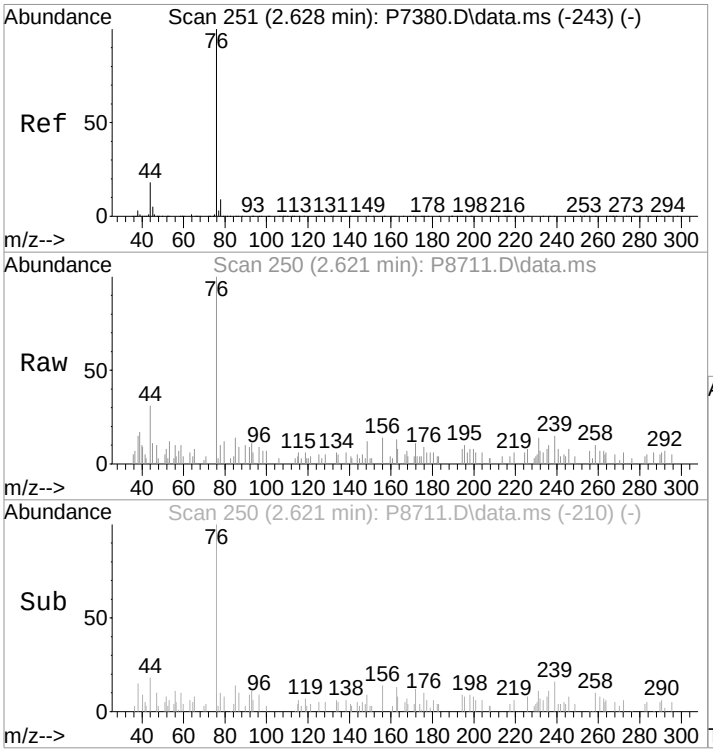


#15
Acetone
Concen: 2.90 ppb m
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P8711.D
Acq: 27 Mar 2017 2:23 pm

Tgt Ion: 43 Resp: 3454

Ion	Ratio	Lower	Upper
43	100		
58	8.0	6.2	46.2
42	0.0	0.0	26.9

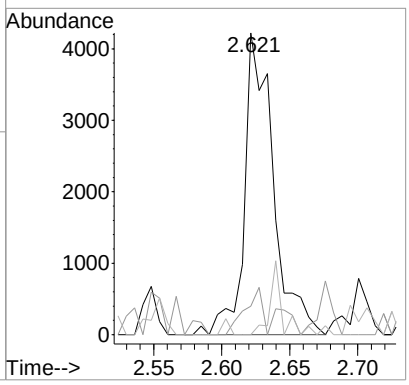


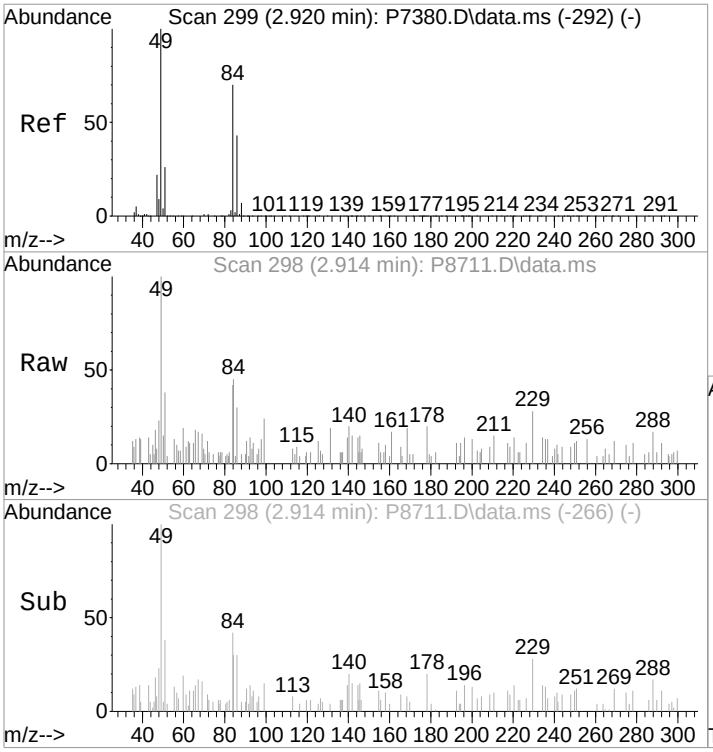


#18
Carbon Disulfide
Concen: 0.36 ppb
RT: 2.621 min Scan# 250
Delta R.T. -0.012 min
Lab File: P8711.D
Acq: 27 Mar 2017 2:23 pm

Tgt Ion: 76 Resp: 6224

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	29.5
77	9.5	0.0	22.7

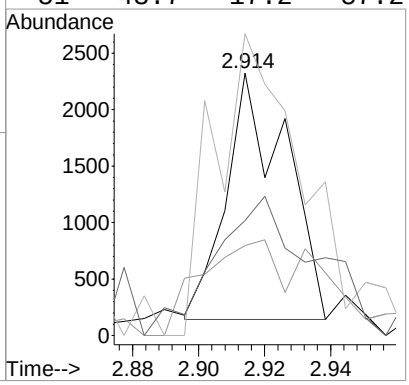


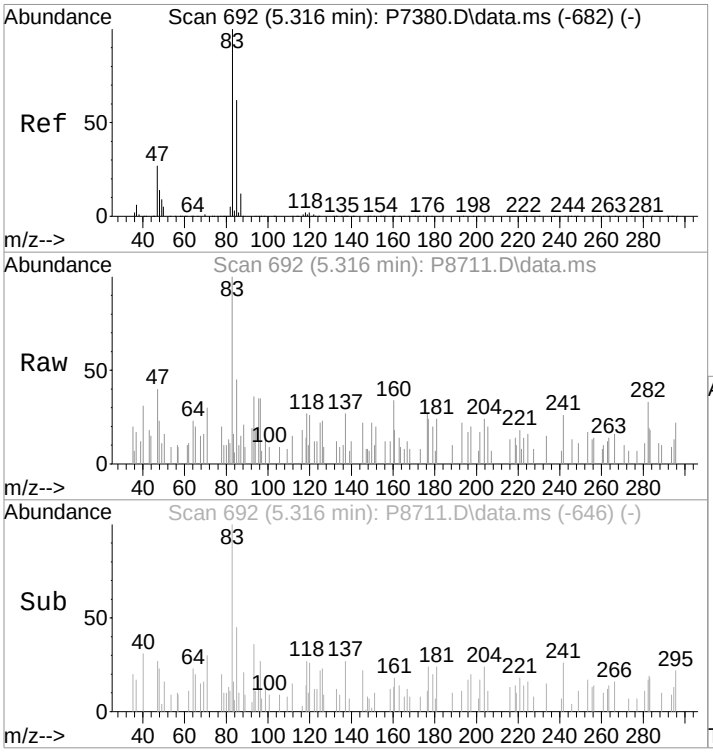


#22
Methylene Chloride
Concen: 0.44 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P8711.D
Acq: 27 Mar 2017 2:23 pm

Tgt Ion: 84 Resp: 2751

Ion	Ratio	Lower	Upper
84	100		
86	34.2	41.5	81.5#
49	115.0	122.0	162.0#
51	43.7	17.2	57.2

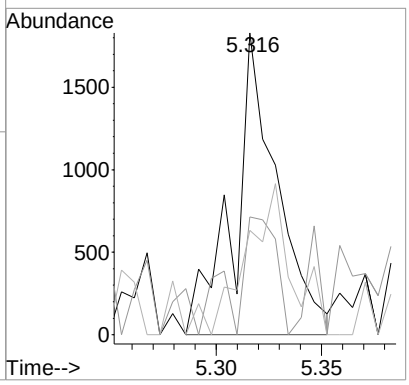


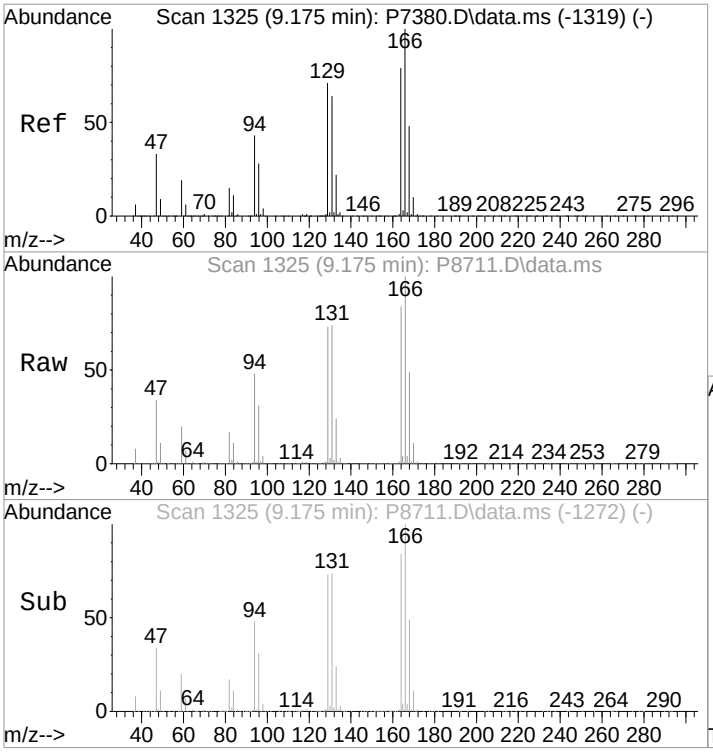


#40
Chloroform
Concen: 0.24 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.006 min
Lab File: P8711.D
Acq: 27 Mar 2017 2:23 pm

Tgt Ion: 83 Resp: 2601

Ion	Ratio	Lower	Upper
83	100		
85	45.3	42.3	82.3
47	40.2	6.9	46.9

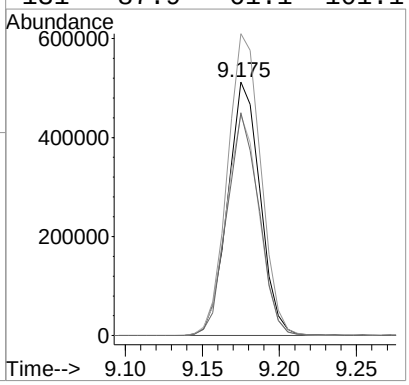




#72
Tetrachloroethene
Concen: 142.36 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8711.D
Acq: 27 Mar 2017 2:23 pm

Tgt Ion:164 Resp: 751315

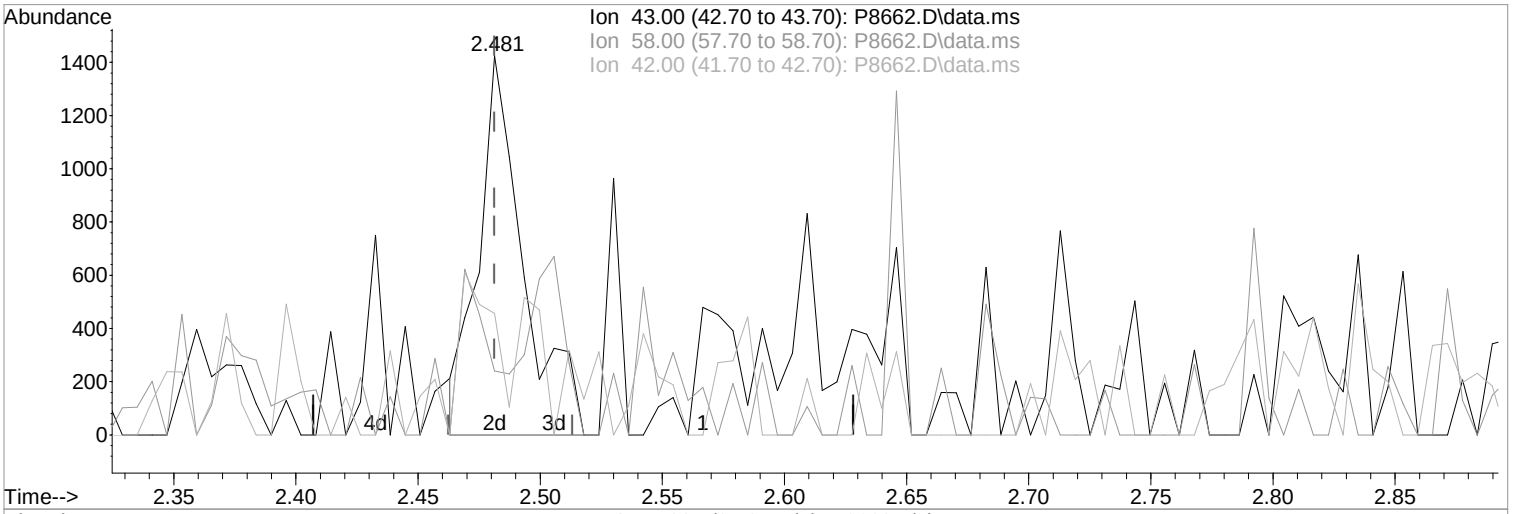
Ion	Ratio	Lower	Upper
164	100		
166	119.1	106.8	146.8
129	87.0	69.7	109.7
131	87.9	61.1	101.1

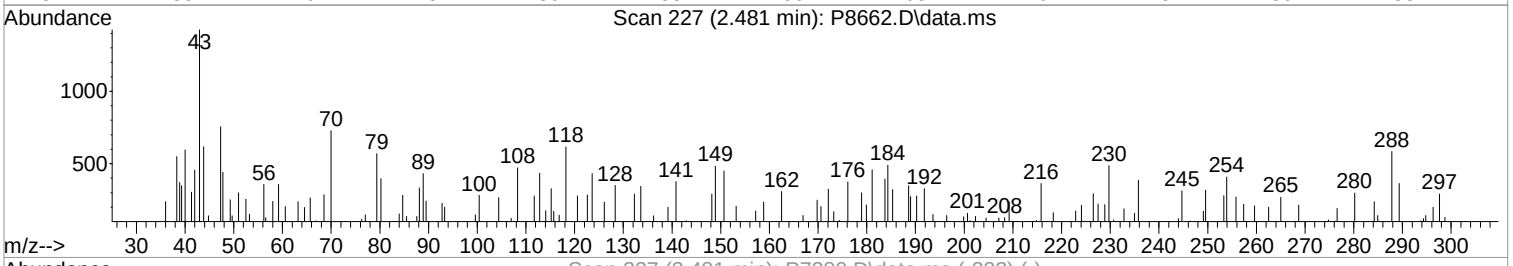


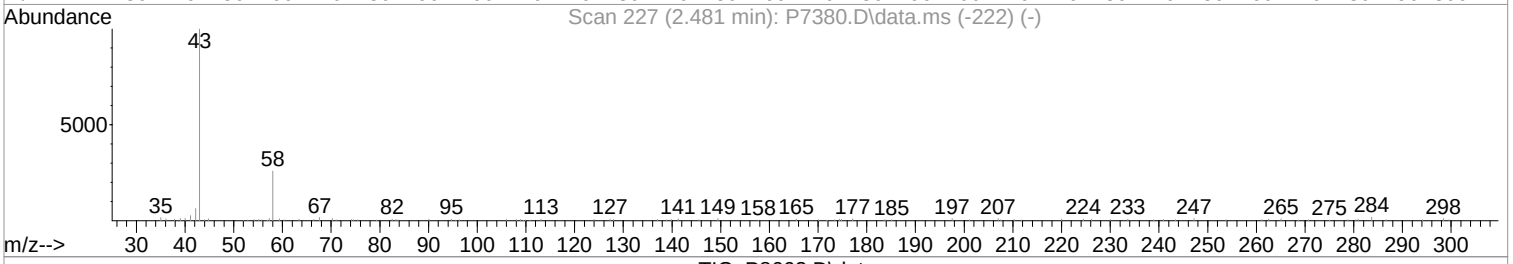
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8662.D
Acq On : 24 Mar 2017 1:41 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 14:28:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8662.D\data.ms

(15) Acetone (P)

2.481min (+0.000) 1.52 ppb m

response 1815

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	16.84
42.00	6.90	32.00#
0.00	0.00	0.00

Manual Integration:

After

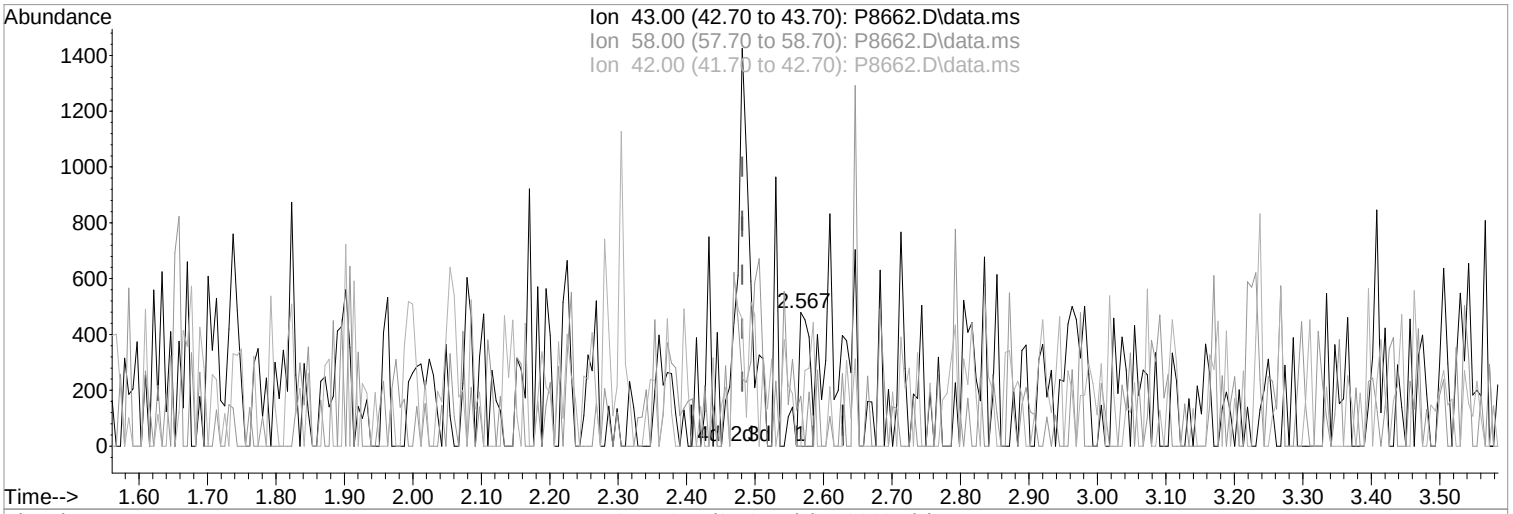
Peak not found.

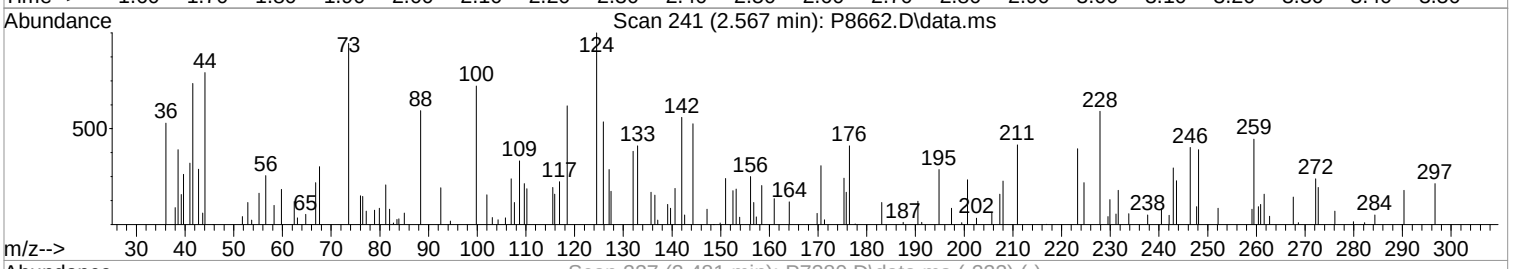
03/24/17

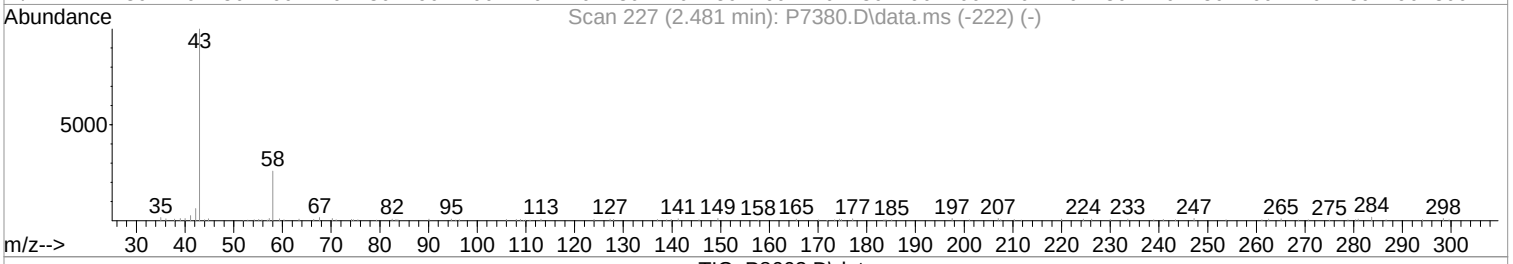
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8662.D
Acq On : 24 Mar 2017 1:41 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 14:28:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8662.D\data.ms

(15) Acetone (P)

2.567min (+0.086) 0.44 ppb

response 524

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	37.37
42.00	6.90	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/24/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8662.D
Acq On : 24 Mar 2017 1:41 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 15:56:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

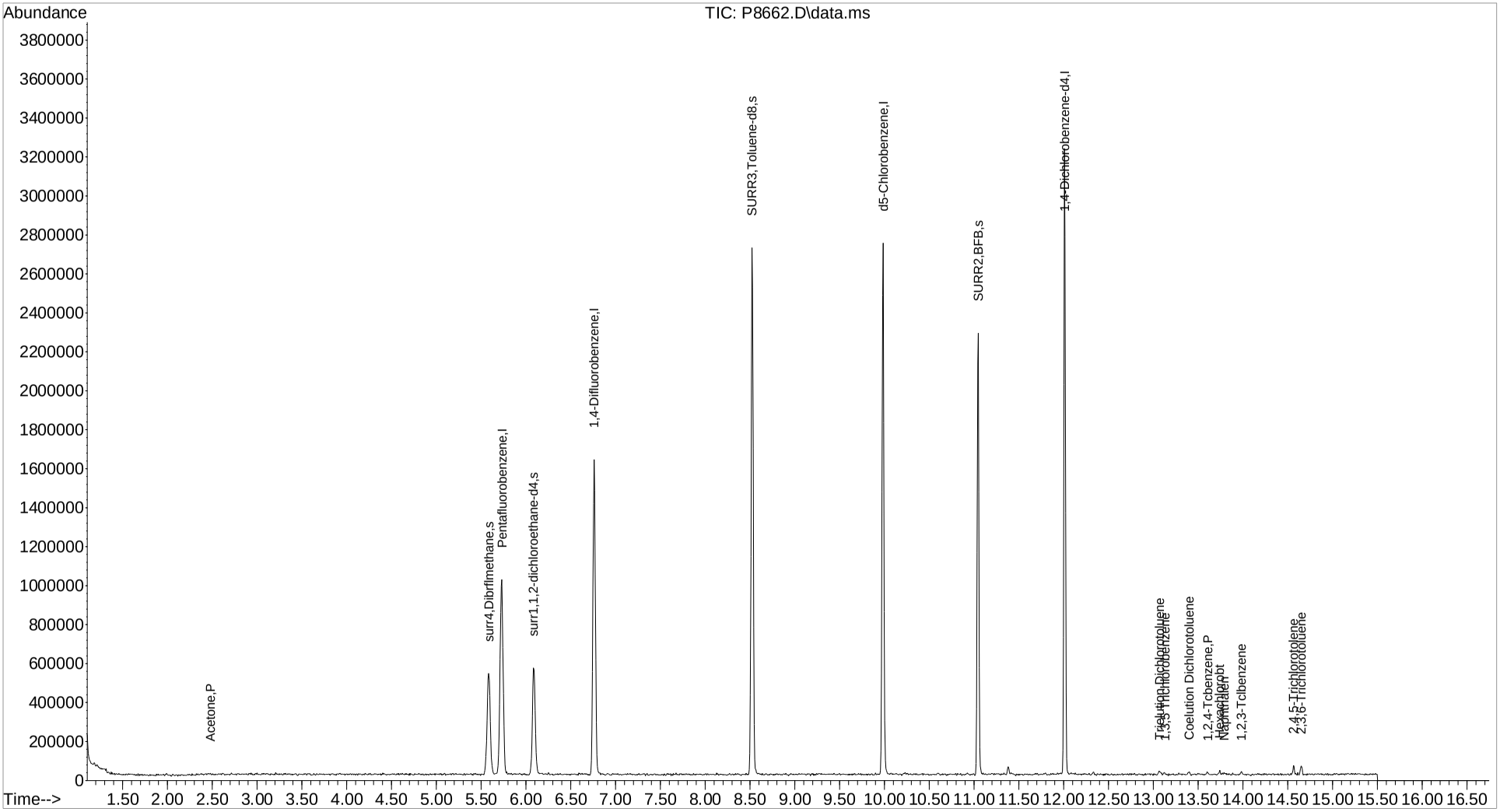
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	813734	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1315150	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1221134	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	610173	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	375563	52.92	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.84%				
48) surr1,1,2-dichloroetha...	6.084	65	442623	56.18	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 112.36%				
65) SURR3,Toluene-d8	8.523	98	1619421	55.19	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.38%				
70) SURR2,BFB	11.047	95	586921	51.62	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.24%				
Target Compounds							Qvalue
15) Acetone	2.481	43	1815m	1.52	ppb		
112) Trielution Dichlorotol...	13.071	125	6201	0.60	ppb	#	81
113) 1,3,5 Trichlorobenzene	13.126	180	2320	0.25	ppb	#	64
114) Coelution Dichlorotoluene	13.400	125	4241	0.38	ppb	#	62
115) 1,2,4-Tcbenzene	13.607	180	3122	0.39	ppb	#	77
116) Hexachlorobt	13.741	225	2507	0.69	ppb	#	75
117) Naphthalen	13.790	128	4343	0.29	ppb		86
118) 1,2,3-Tclbenzene	13.979	180	3134	0.47	ppb	#	64
119) 2,4,5-Trichlorotolene	14.564	159	7863	1.53	ppb	#	85
120) 2,3,6-Trichlorotoluene	14.650	159	7494	1.75	ppb	#	87

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

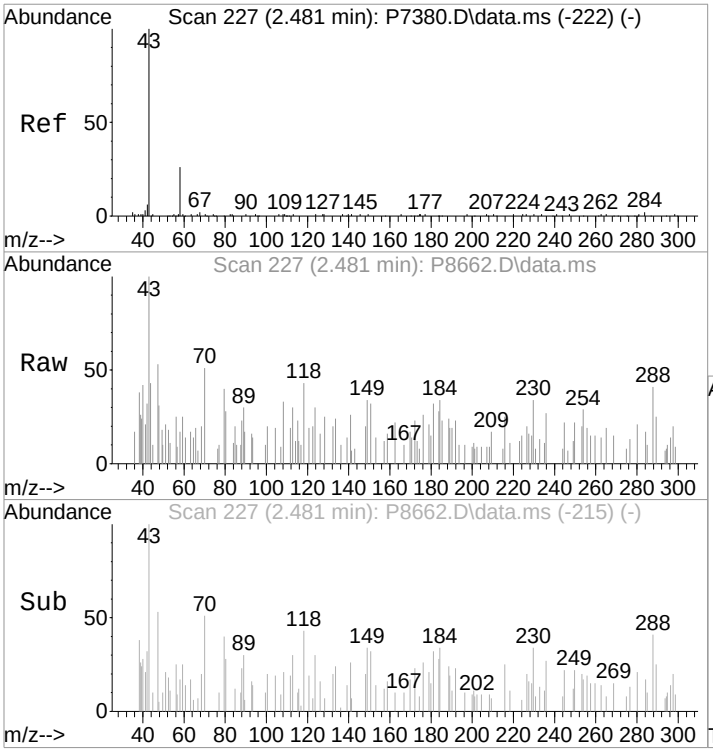
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8662.D
Acq On : 24 Mar 2017 1:41 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 15:56:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



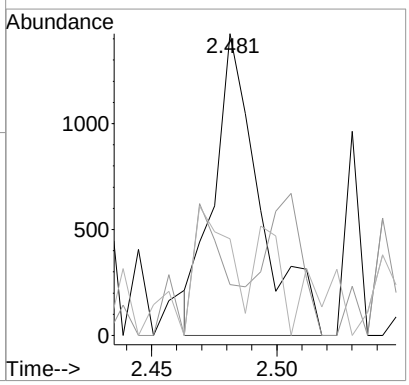
1st 03/24/17
2nd 03/28/17

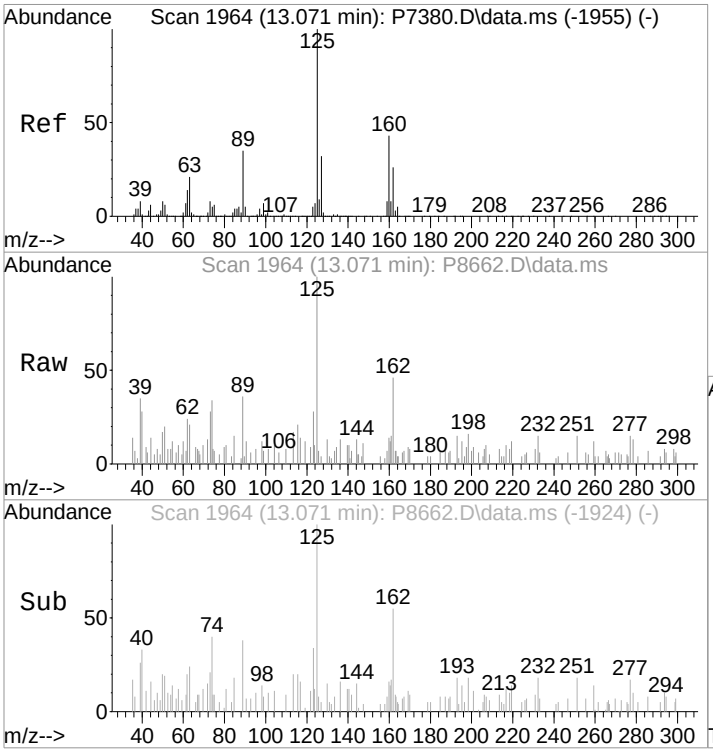


#15
Acetone
Concen: 1.52 ppb m
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion: 43 Resp: 1815

Ion	Ratio	Lower	Upper
43	100		
58	16.8	6.2	46.2
42	32.0	0.0	26.9#

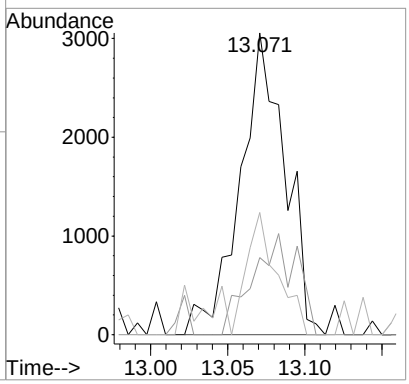


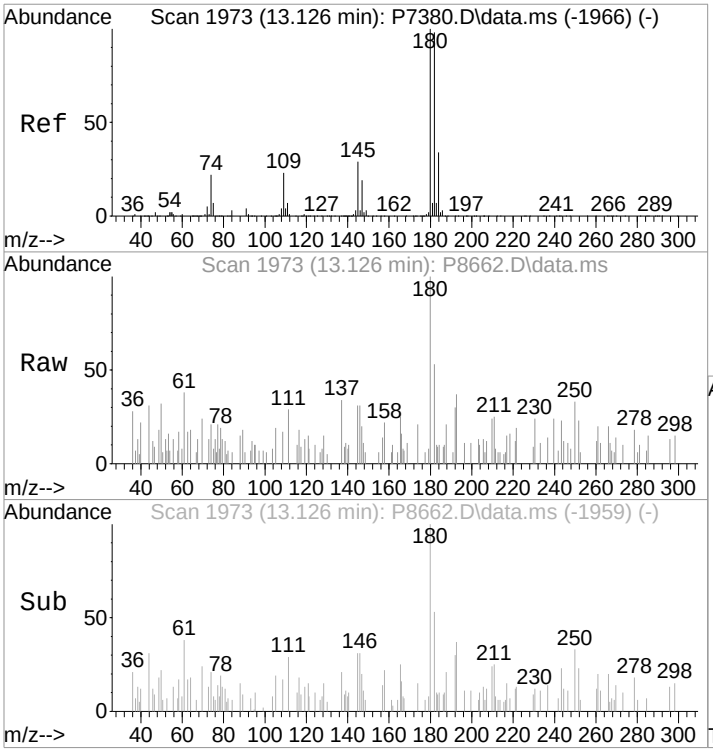


#112
Trielution Dichlorotoluene
Concen: 0.60 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:125 Resp: 6201

Ion	Ratio	Lower	Upper
125	100		
160	23.9	34.6	51.8#
89	37.7	28.0	42.0

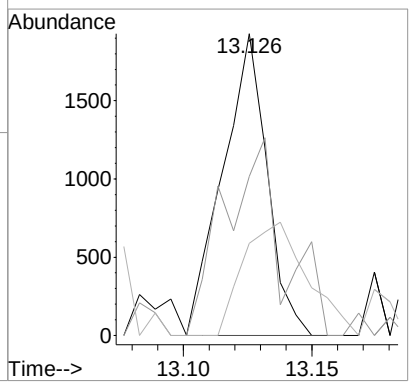


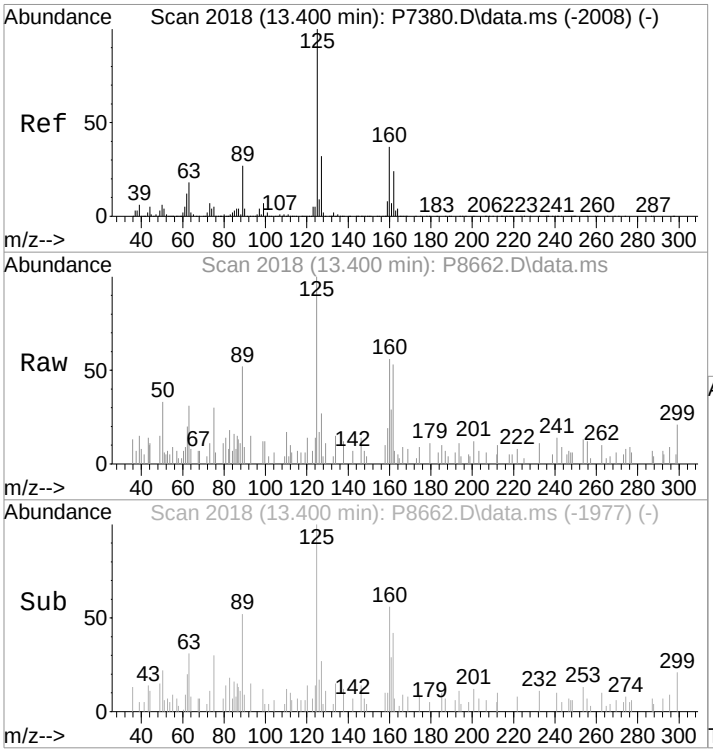


#113
1,3,5 Trichlorobenzene
Concen: 0.25 ppb
RT: 13.126 min Scan# 1973
Delta R.T. -0.006 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:180 Resp: 2320

Ion	Ratio	Lower	Upper
180	100		
182	52.7	78.6	117.8#
145	30.6	23.4	35.2

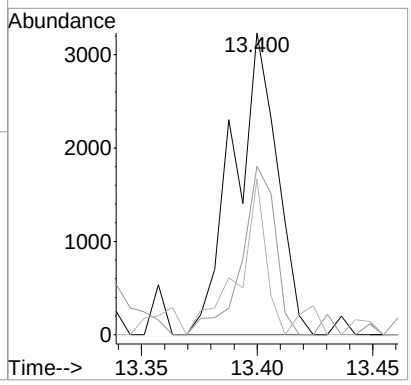


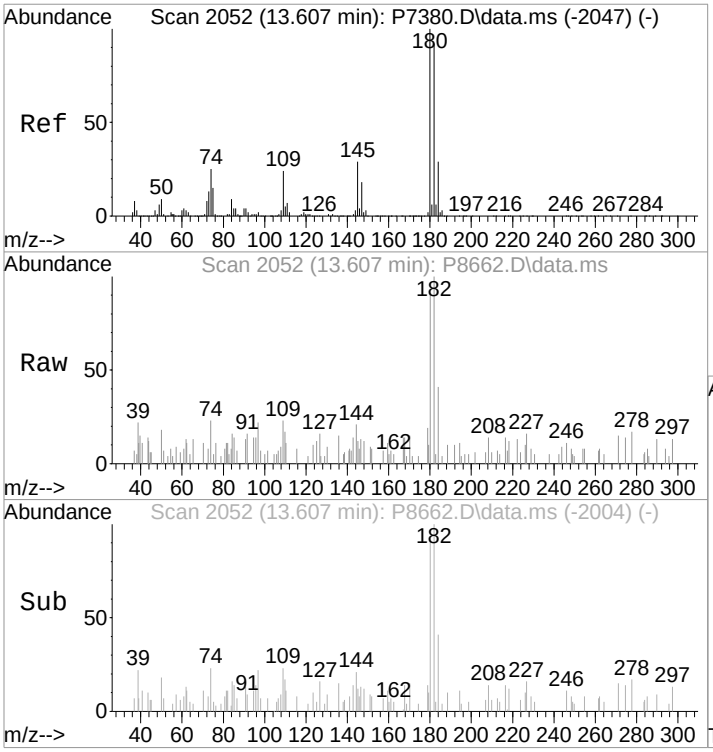


#114
Coelution Dichlorotoluene
Concen: 0.38 ppb
RT: 13.400 min Scan# 2018
Delta R.T. 0.000 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:125 Resp: 4241

Ion	Ratio	Lower	Upper
125	100		
160	55.7	29.8	44.6#
89	51.7	21.7	32.5#

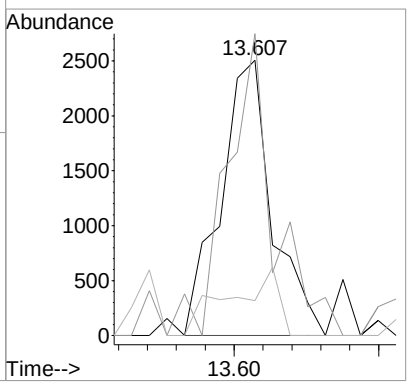


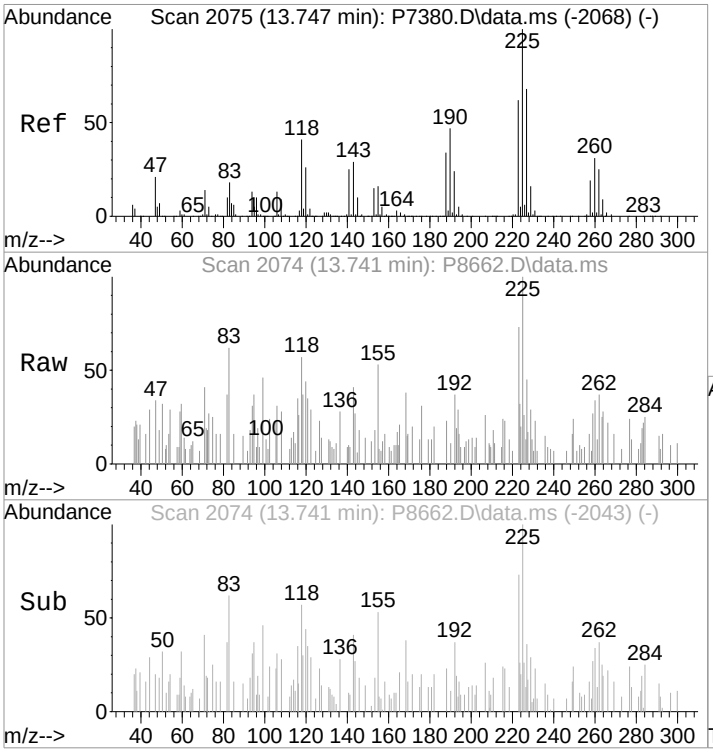


#115
1,2,4-Tcbenzene
Concen: 0.39 ppb
RT: 13.607 min Scan# 2052
Delta R.T. 0.000 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:180 Resp: 3122

Ion	Ratio	Lower	Upper
180	100		
182	115.6	71.4	111.4#
145	21.1	8.8	48.8

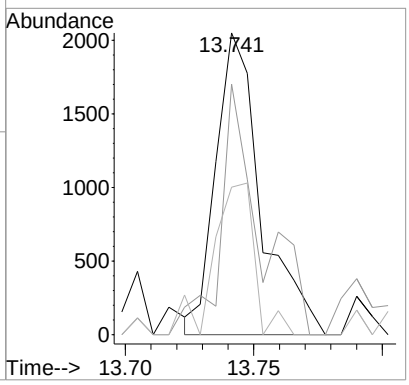


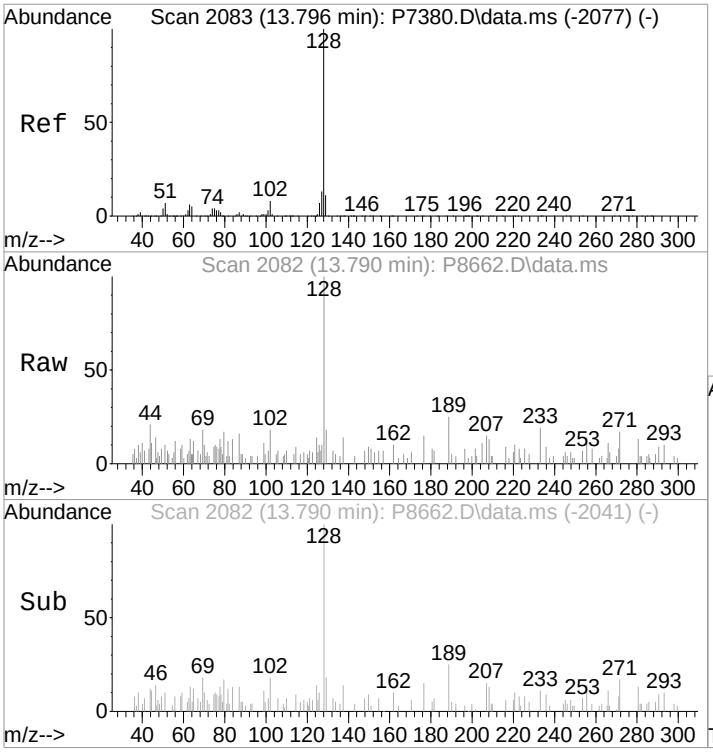


#116
Hexachlorobt
Concen: 0.69 ppb
RT: 13.741 min Scan# 2074
Delta R.T. -0.006 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:225 Resp: 2507

Ion	Ratio	Lower	Upper
225	100		
223	83.0	42.2	82.2#
227	48.9	47.7	87.7

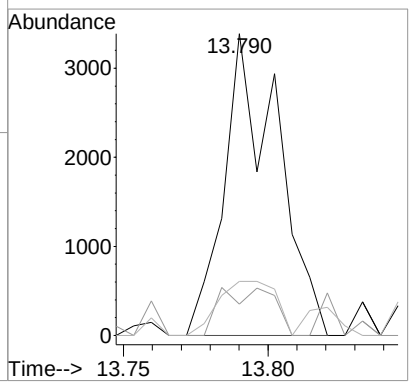


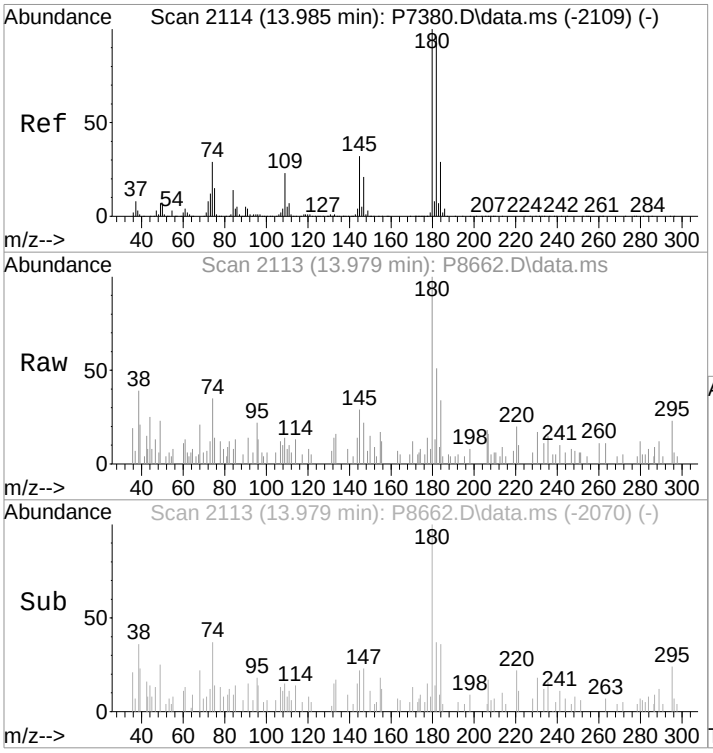


#117
Naphthalen
Concen: 0.29 ppb
RT: 13.790 min Scan# 2082
Delta R.T. -0.006 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:128 Resp: 4343

Ion	Ratio	Lower	Upper
128	100		
127	10.4	0.0	32.8
102	17.9	0.0	28.5

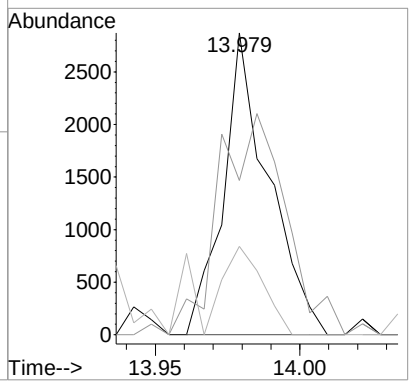


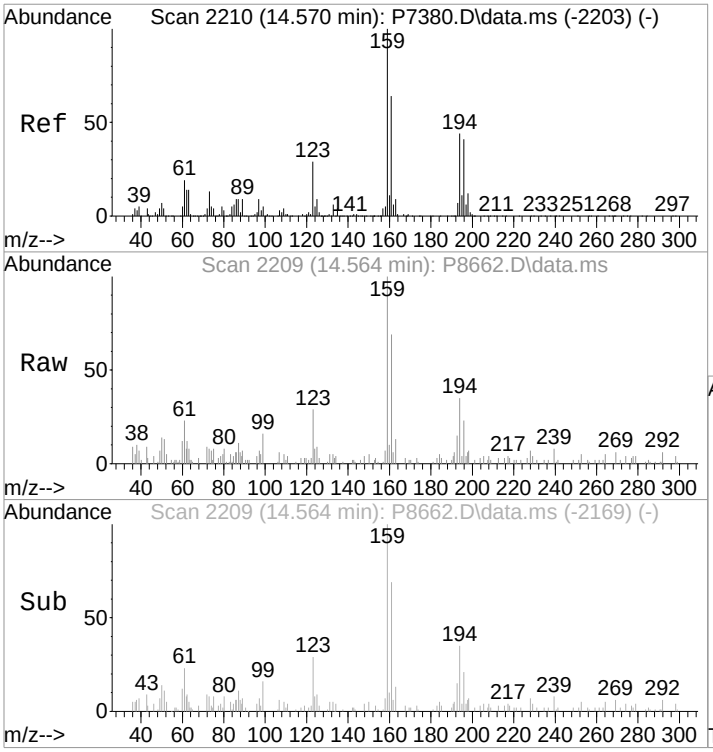


#118
1,2,3-Tclbenzene
Concen: 0.47 ppb
RT: 13.979 min Scan# 2113
Delta R.T. -0.006 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:180 Resp: 3134

Ion	Ratio	Lower	Upper
180	100		
182	51.1	75.9	115.9#
145	29.2	11.8	51.8

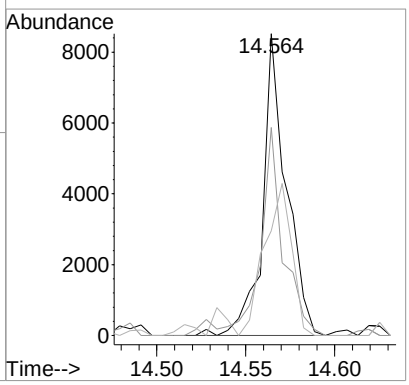


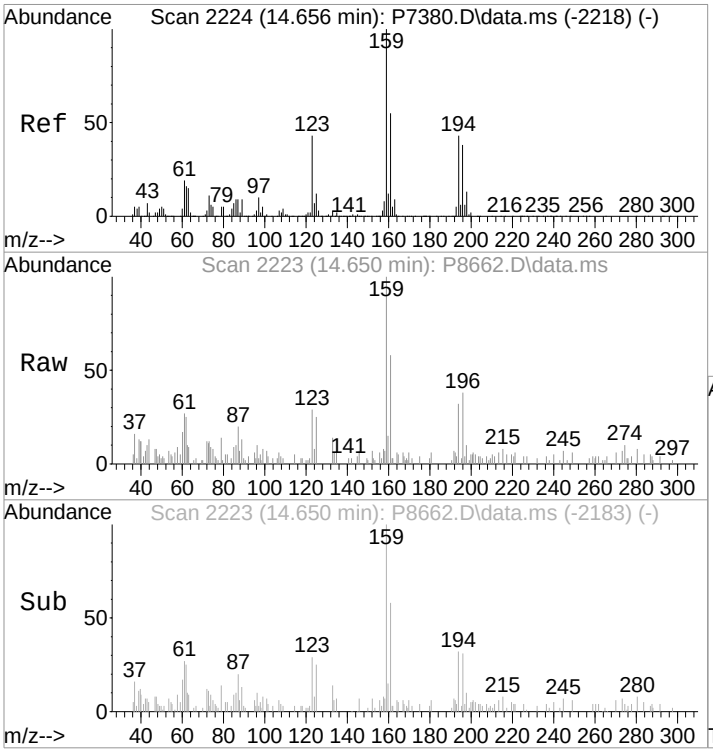


#119
2,4,5-Trichlorotolene
Concen: 1.53 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:159 Resp: 7863

Ion	Ratio	Lower	Upper
159	100		
161	75.0	51.0	76.4
194	34.6	35.4	53.2#

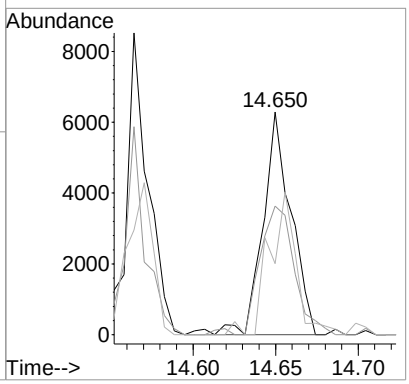




#120
2,3,6-Trichlorotoluene
Concen: 1.75 ppb
RT: 14.650 min Scan# 2223
Delta R.T. -0.006 min
Lab File: P8662.D
Acq: 24 Mar 2017 1:41 pm

Tgt Ion:159 Resp: 7494

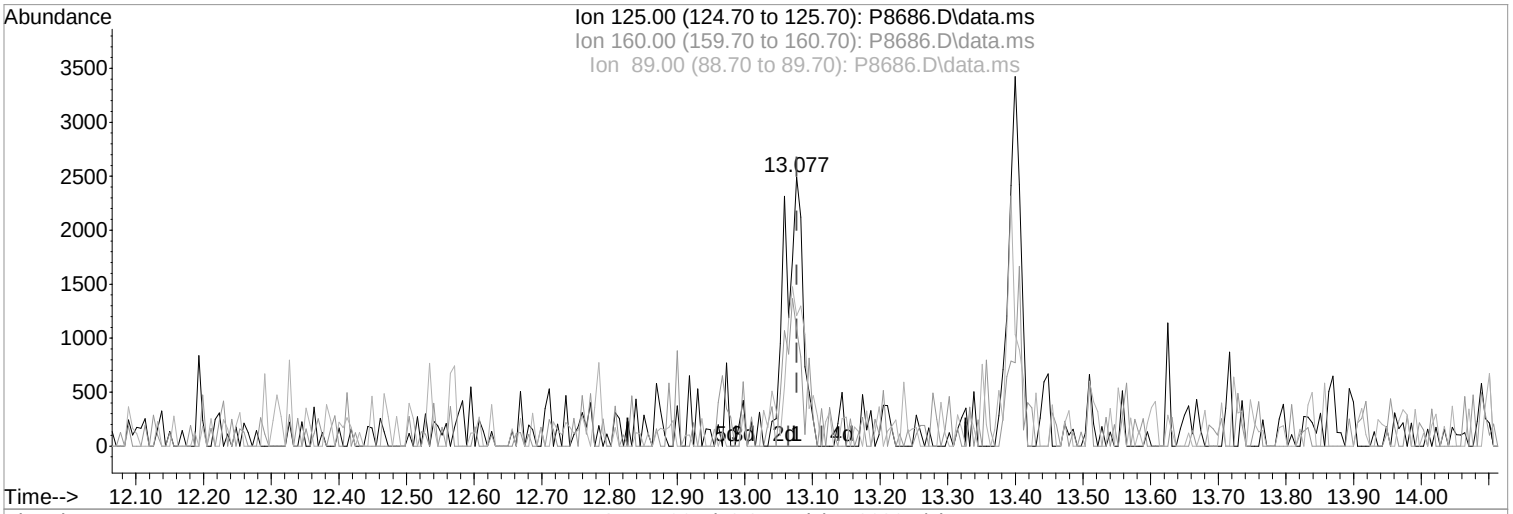
Ion	Ratio	Lower	Upper
159	100		
161	52.9	44.3	66.5
194	27.7	34.8	52.2#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(112) Trielution Dichlorotoluene

13.077min (+0.000) 0.45 ppb m

response 4663

Ion	Exp%	Act%
125.00	100	100
160.00	43.20	43.54
89.00	35.00	48.48#
0.00	0.00	0.00

Manual Integration:

After

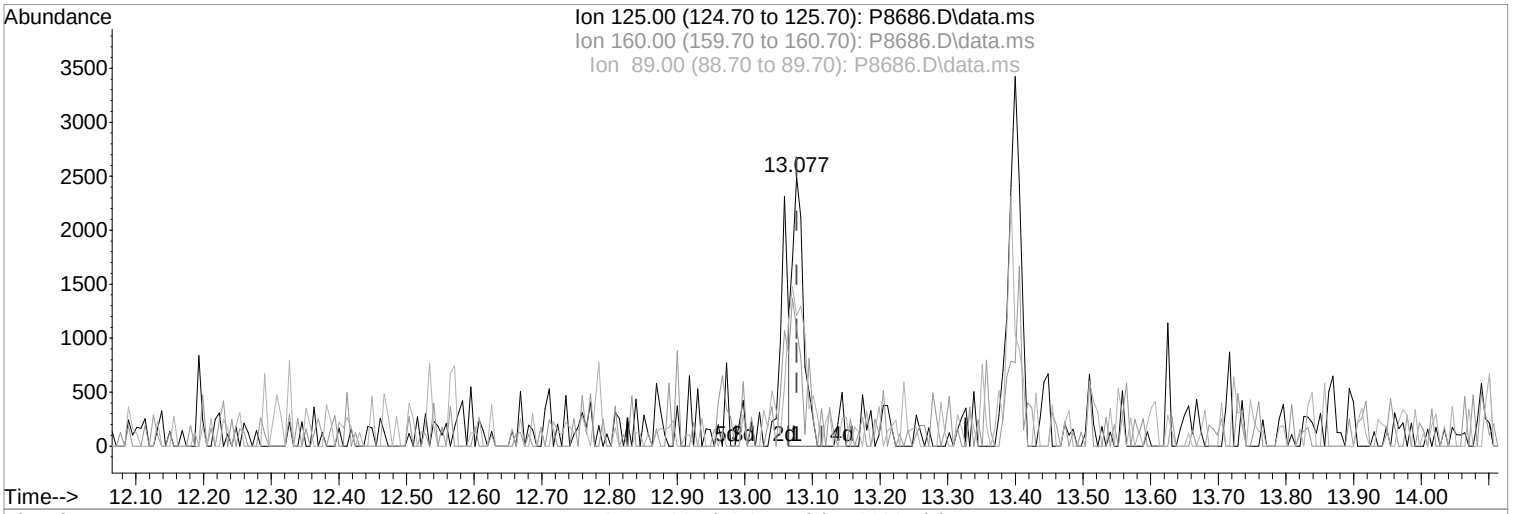
Split Peak

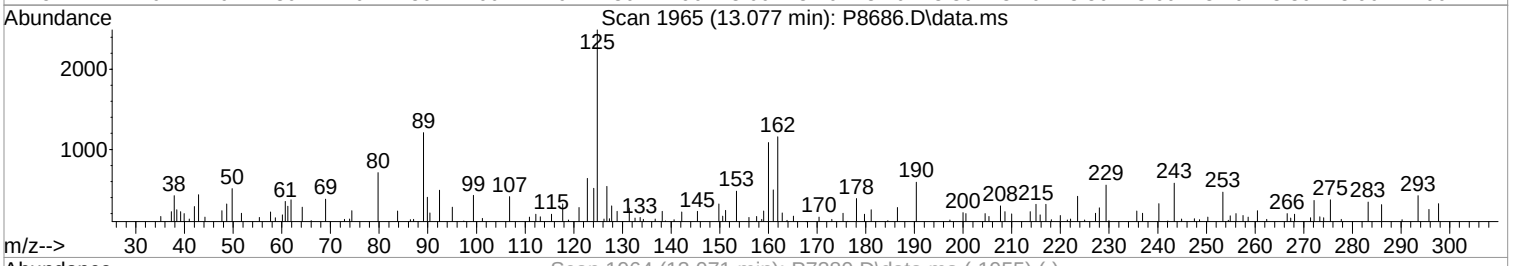
03/27/17

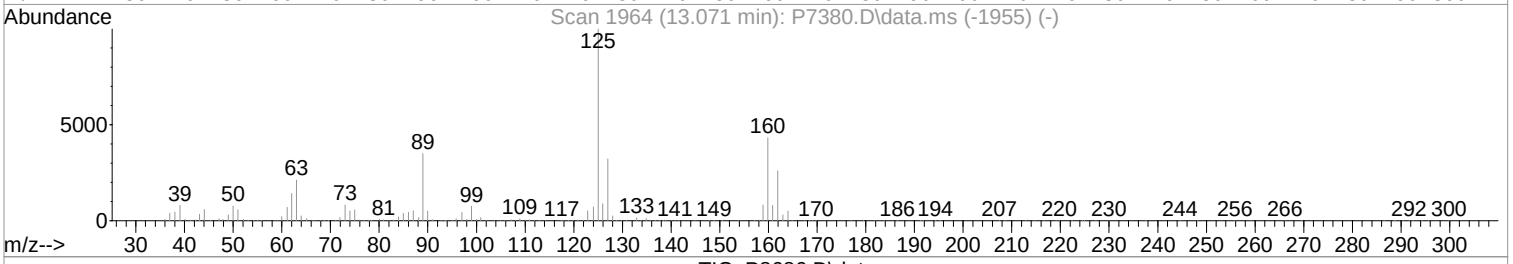
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8686.D\data.ms

(112) Trielution Dichlorotoluene

13.077min (+0.000) 0.28 ppb

response 2858

Ion	Exp%	Act%
125.00	100	100
160.00	43.20	43.54
89.00	35.00	48.48#
0.00	0.00	0.00

Manual Integration:

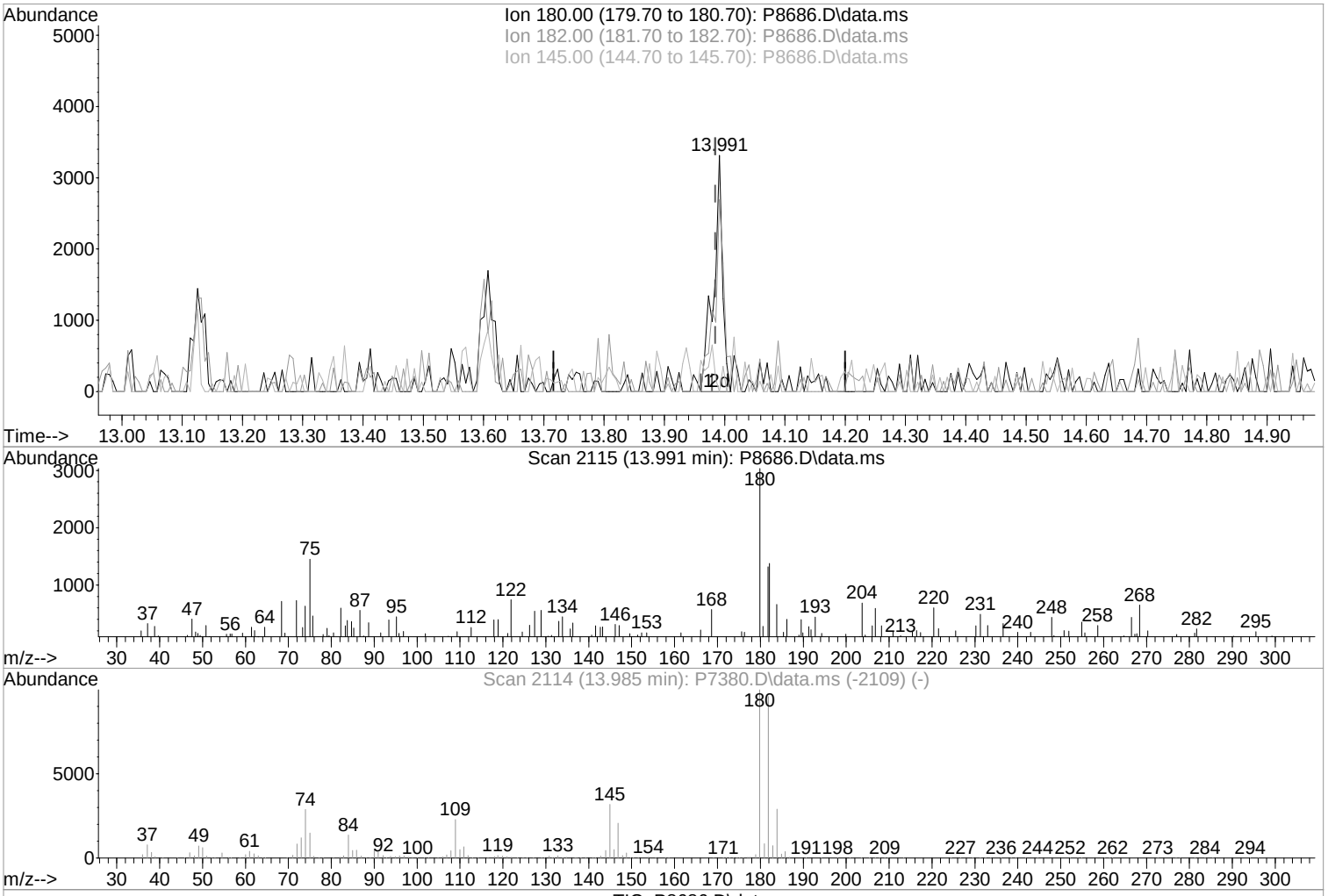
Before

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(118) 1,2,3-Tclbenzene

13.991min (+0.006) 0.53 ppb m

response 3463

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	45.30#
145.00	31.80	0.00#
0.00	0.00	0.00

Manual Integration:

After

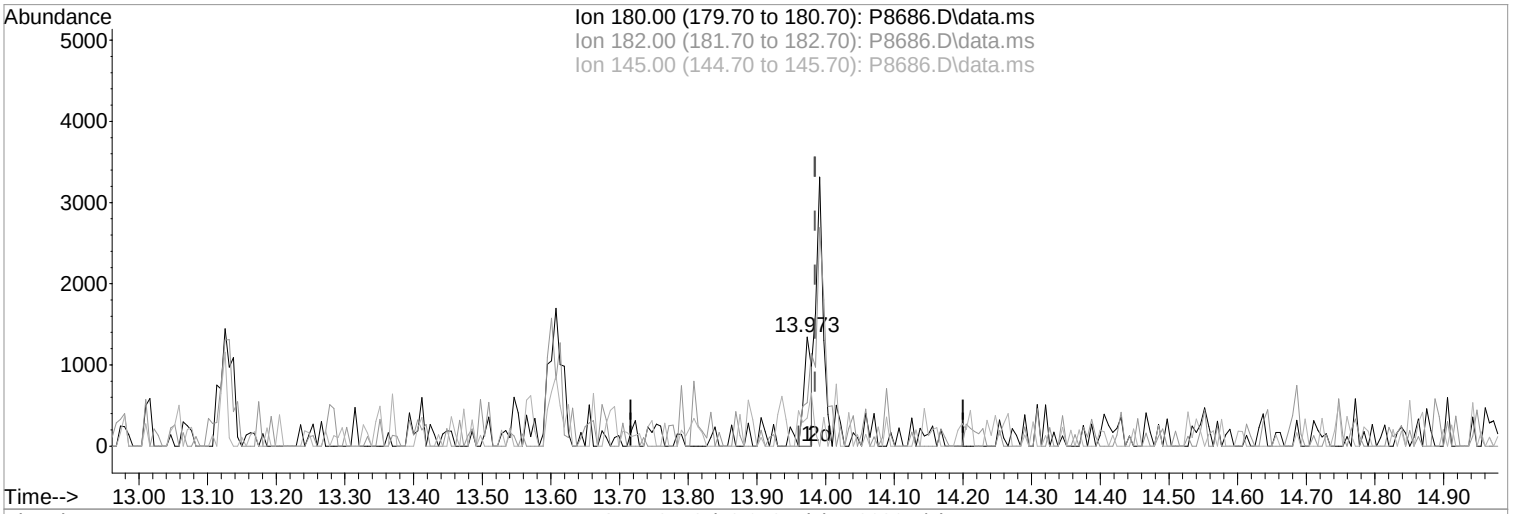
Split Peak

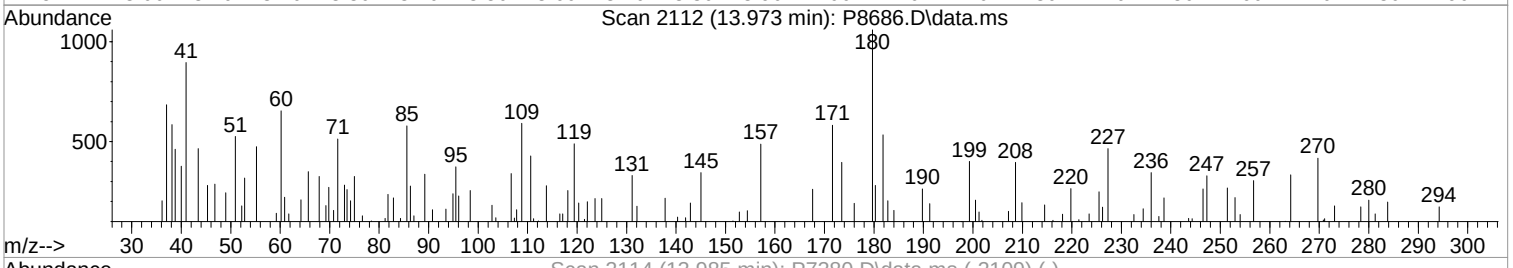
03/27/17

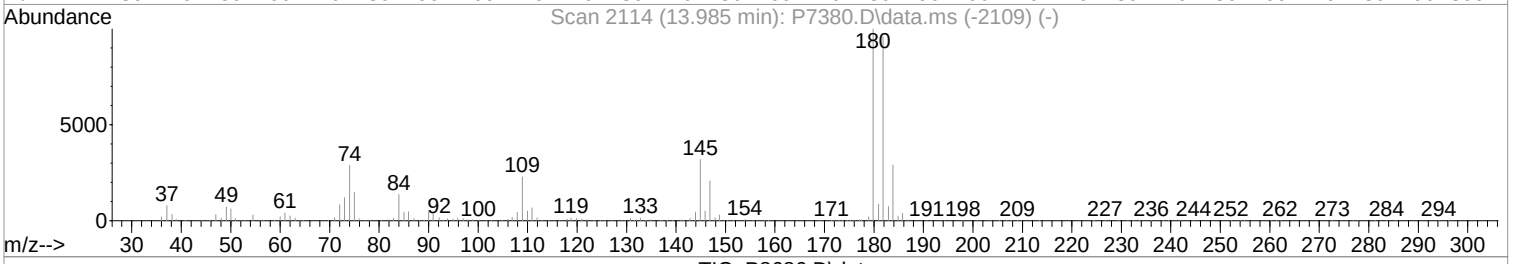
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8686.D\data.ms

(118) 1,2,3-Tclbenzene

13.973min (-0.012) 0.16 ppb

response 1031

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	39.75#
145.00	31.80	25.65
0.00	0.00	0.00

Manual Integration:

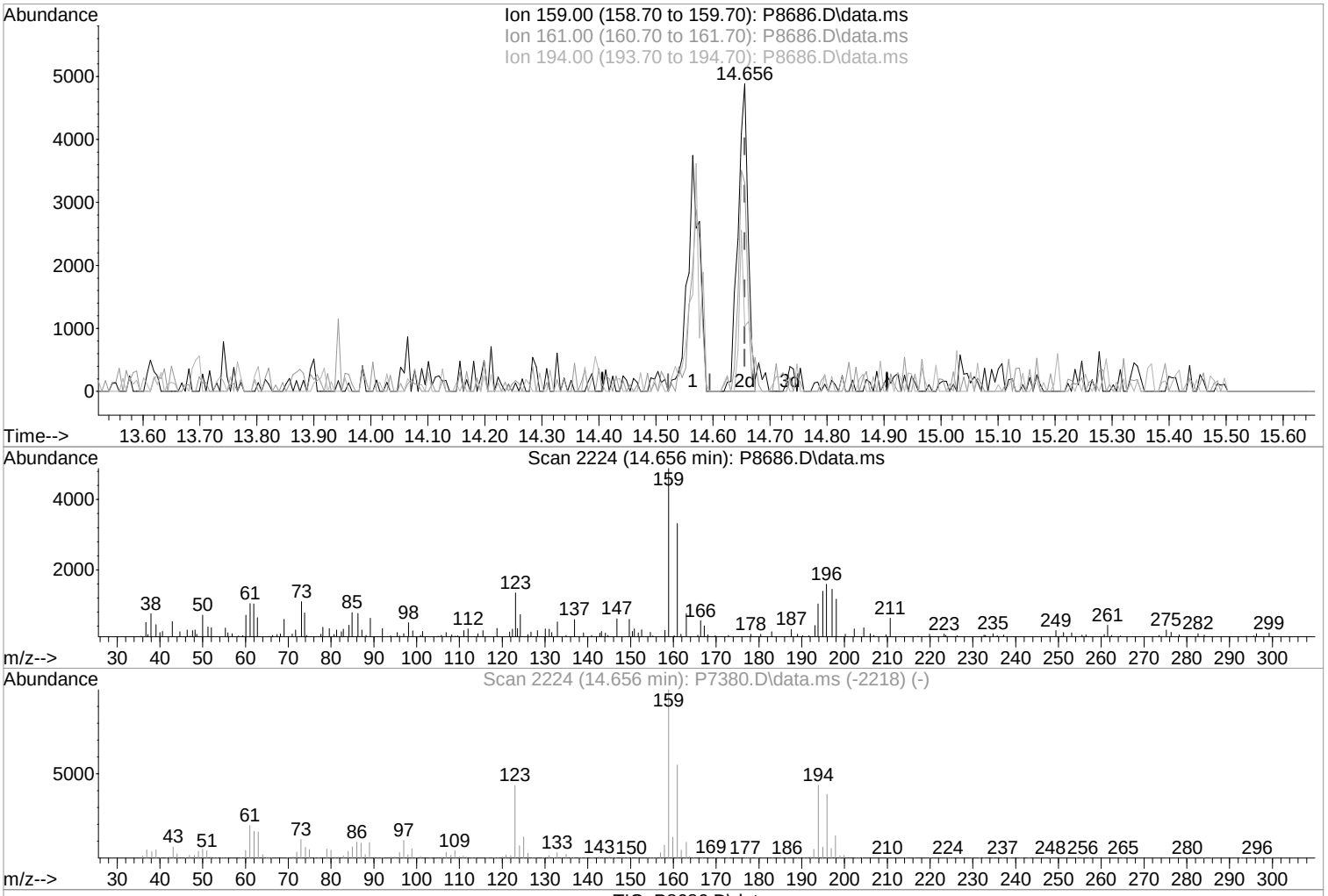
Before

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.656min (+0.000) 1.43 ppb m

response 6072

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	67.80#
194.00	43.50	21.11#
0.00	0.00	0.00

Manual Integration:

After

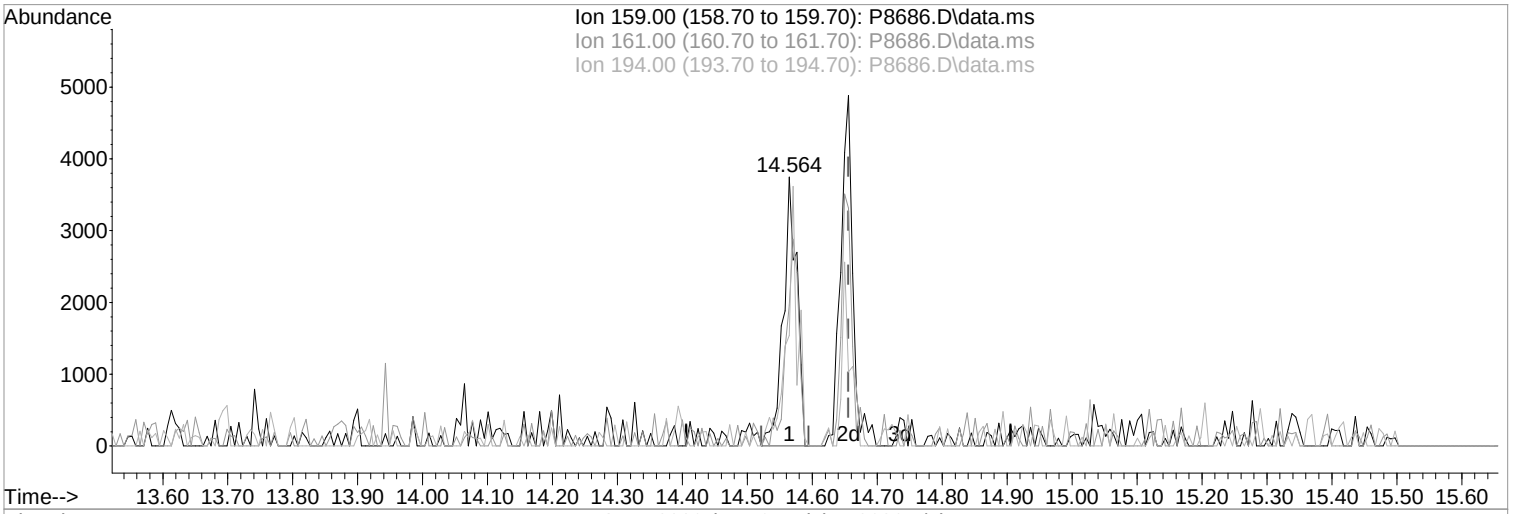
Wrong peak selected.

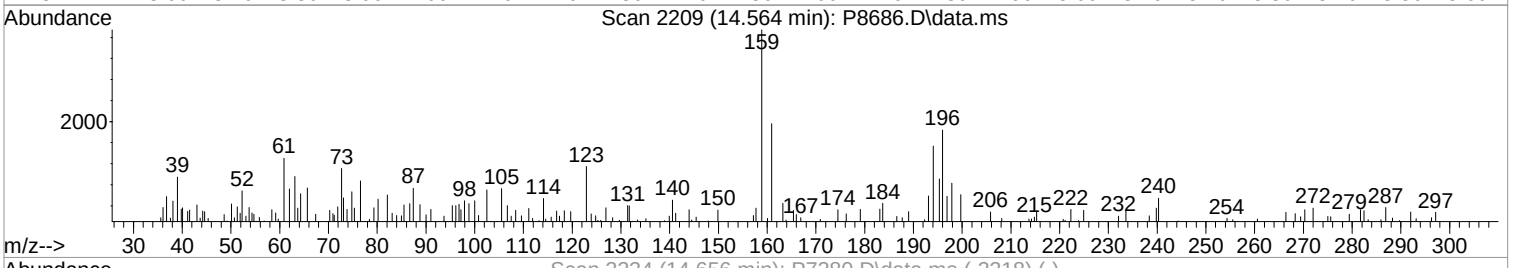
03/27/17

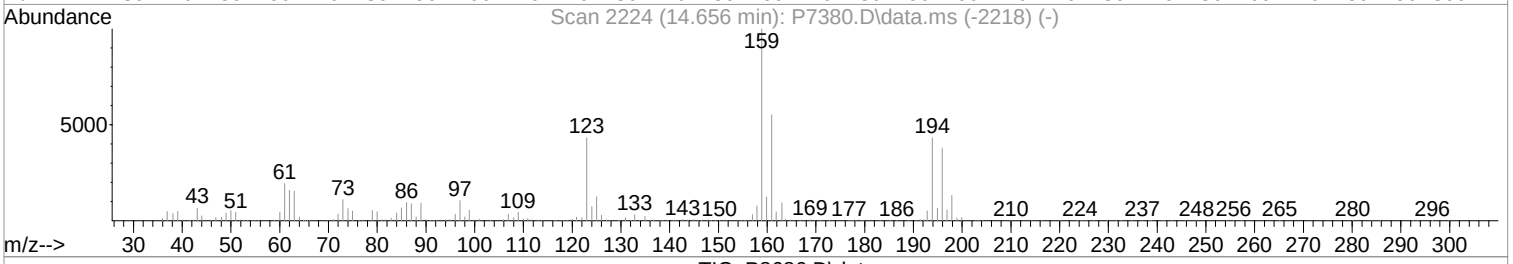
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8686.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.564min (-0.091) 1.29 ppb

response 5458

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	52.42
194.00	43.50	41.05
0.00	0.00	0.00

Manual Integration:

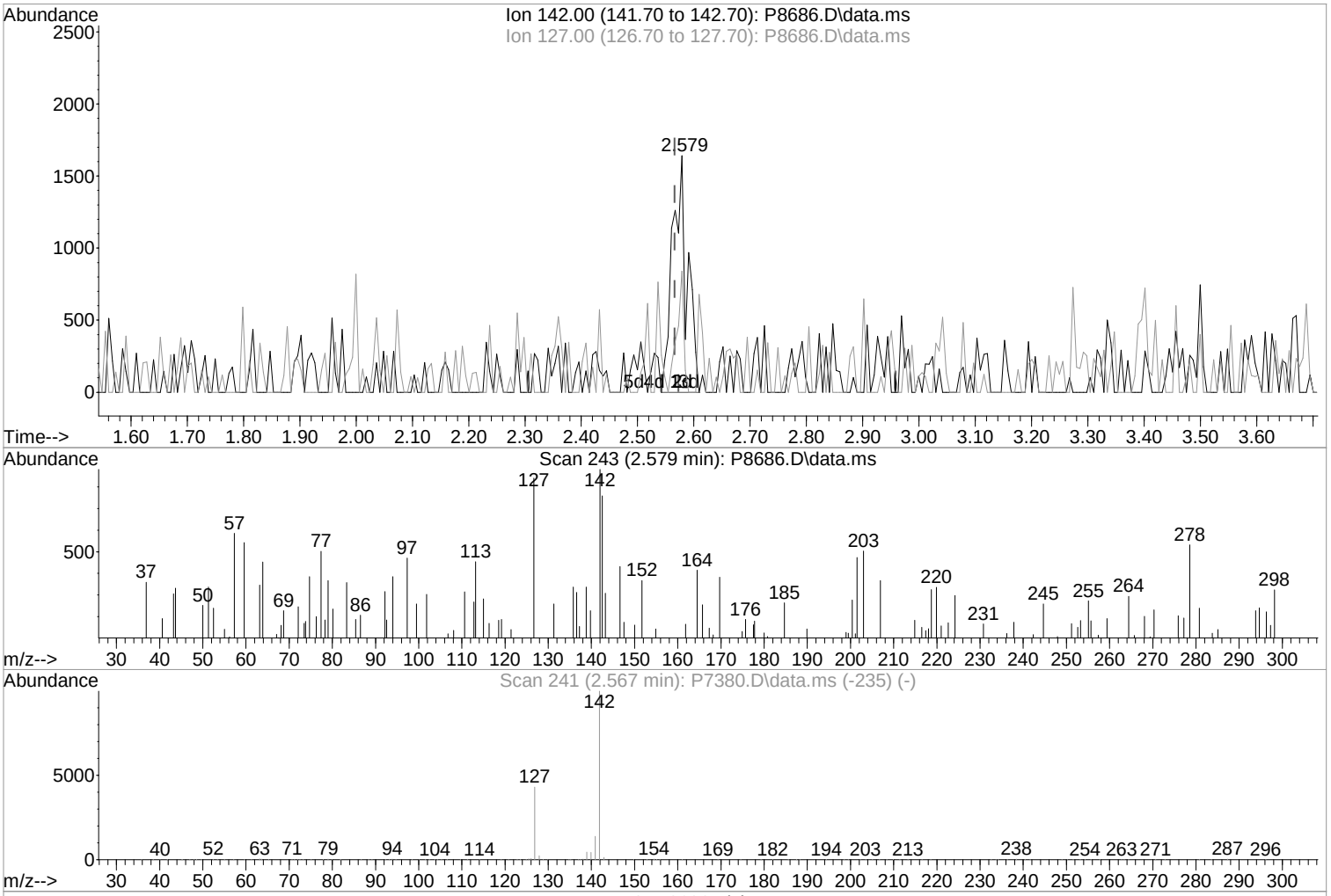
Before

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(17) Iodomethane

2.579min (+0.012) 0.36 ppb m

response 2954

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	95.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

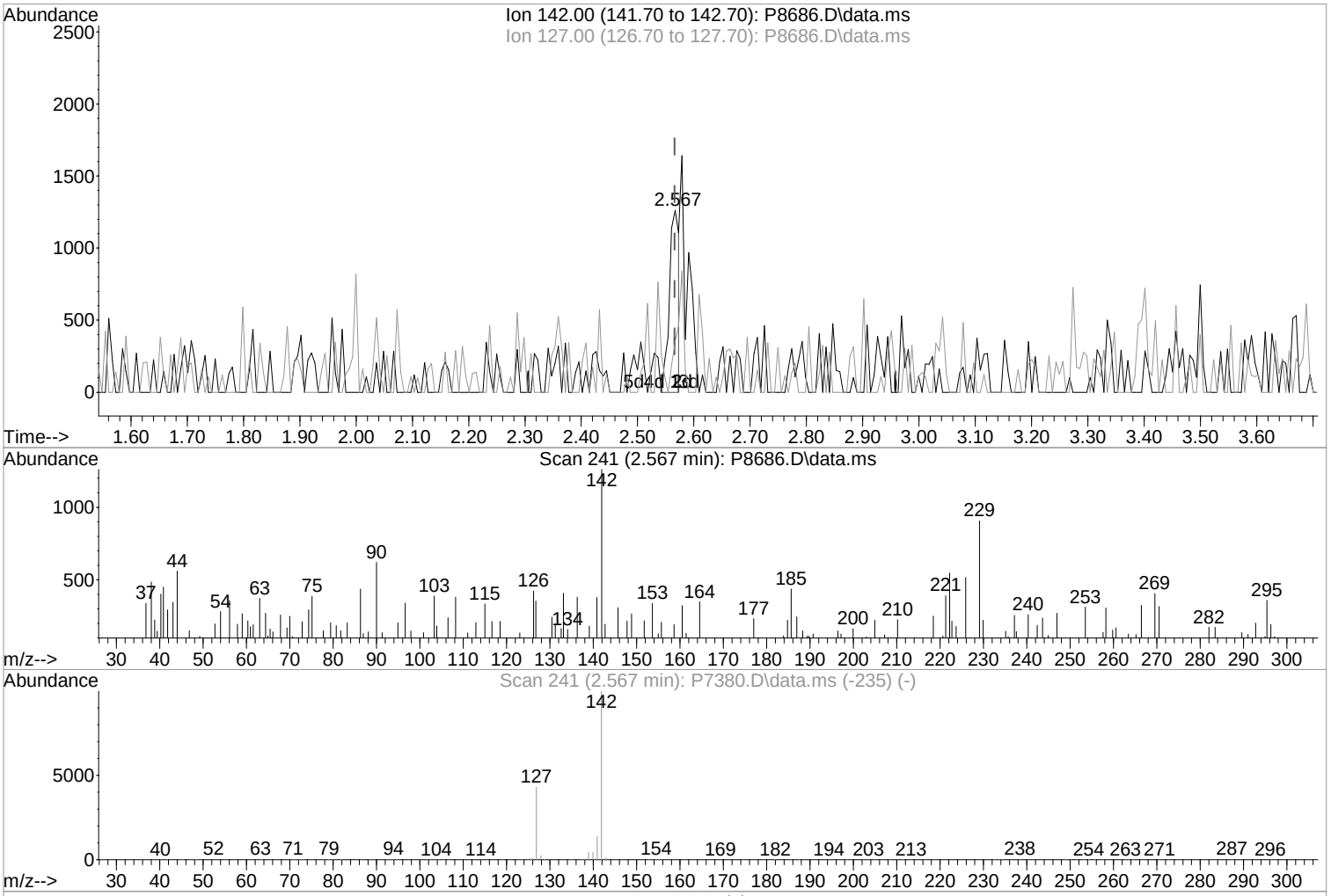
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(17) Iodomethane

2.567min (+0.000) 0.18 ppb

response 1505

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	24.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 12:11:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

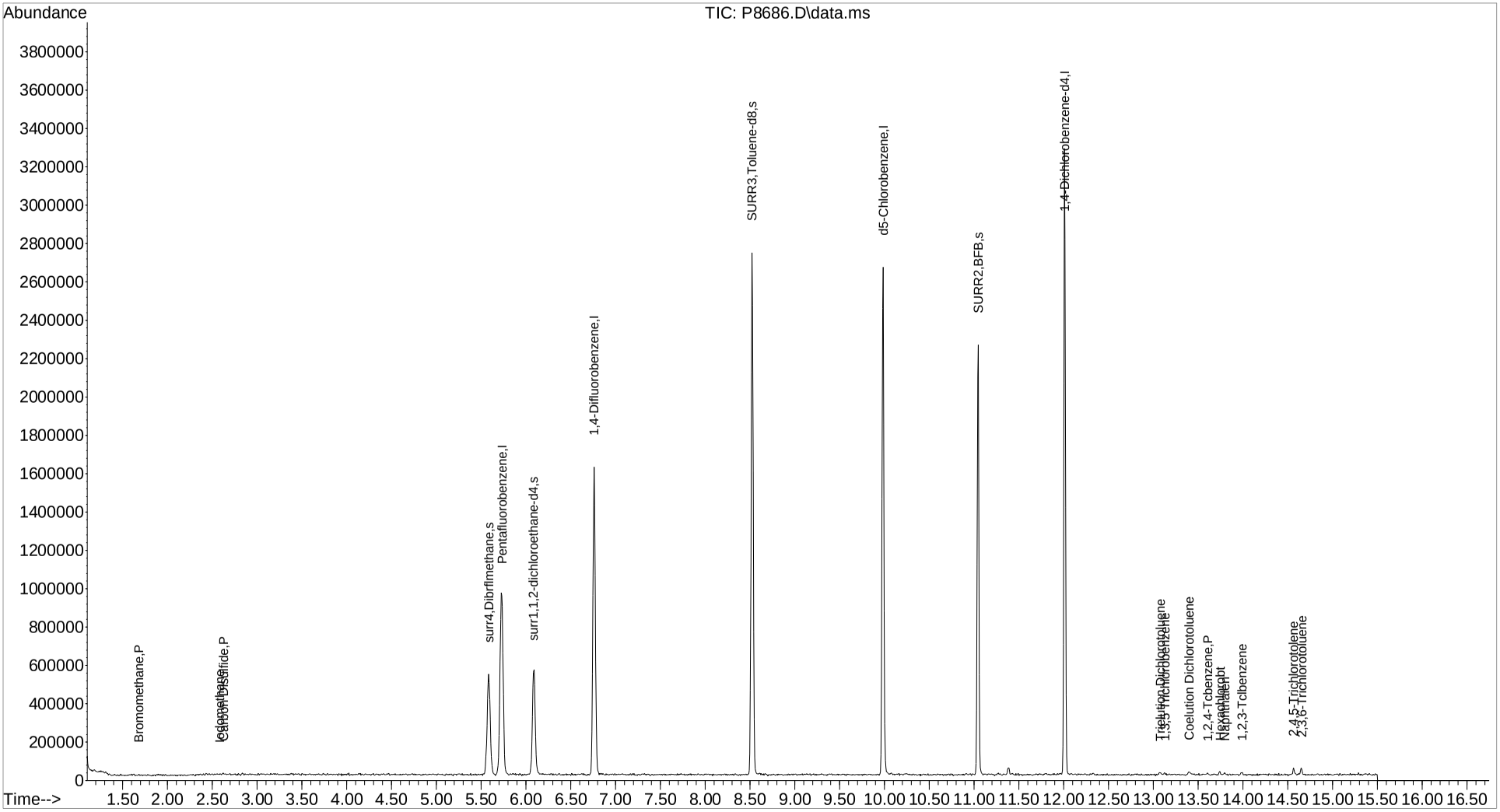
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	797418	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1289089	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1199107	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	605271	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	376342	54.10	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.20%				
48) surr1,1,2-dichloroetha...	6.084	65	442106	57.24	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 114.48%				
65) SURR3,Toluene-d8	8.523	98	1593550	55.41	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.82%				
70) SURR2,BFB	11.047	95	560439	50.29	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.58%				
Target Compounds							Qvalue
5) Bromomethane	1.683	94	955	0.25	ppb	#	51
17) Iodomethane	2.579	142	2954m	0.36	ppb		
18) Carbon Disulfide	2.622	76	4516	0.26	ppb		75
112) Trielution Dichlorotol...	13.077	125	4663m	0.45	ppb		
113) 1,3,5 Trichlorobenzene	13.126	180	1858	0.20	ppb	#	72
114) Coelution Dichlorotoluene	13.400	125	4236	0.38	ppb	#	83
115) 1,2,4-Tcbenzene	13.607	180	2211	0.28	ppb	#	56
116) Hexachlorobt	13.747	225	1832	0.50	ppb	#	57
117) Naphthalen	13.796	128	4247	0.29	ppb		86
118) 1,2,3-Tclbenzene	13.991	180	3463m	0.53	ppb		
119) 2,4,5-Trichlorotolene	14.564	159	5458	1.07	ppb		89
120) 2,3,6-Trichlorotoluene	14.656	159	6072m	1.43	ppb		

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

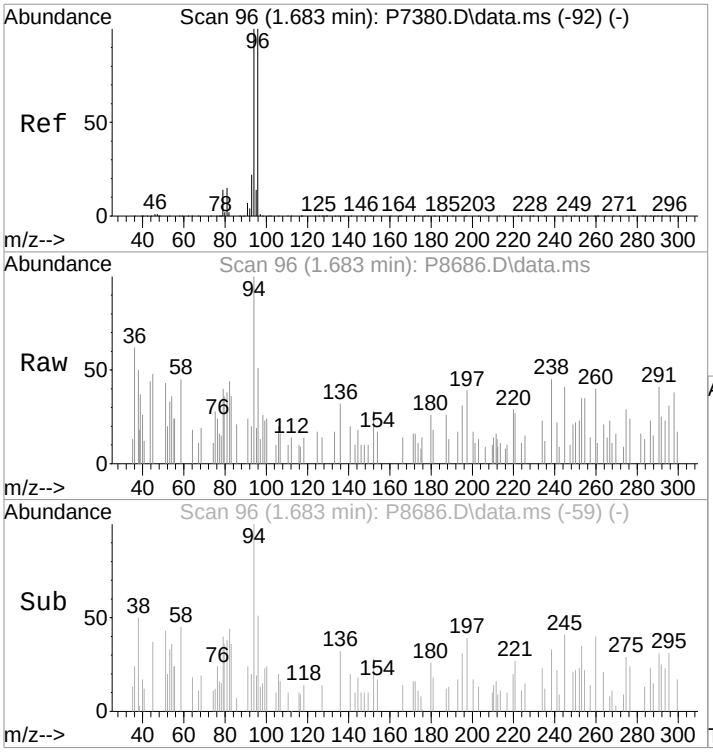
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 12:11:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



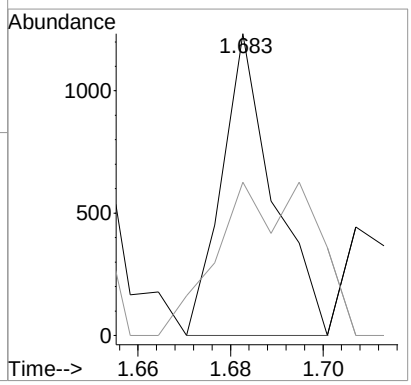
1st 03/27/17
2nd 03/28/17

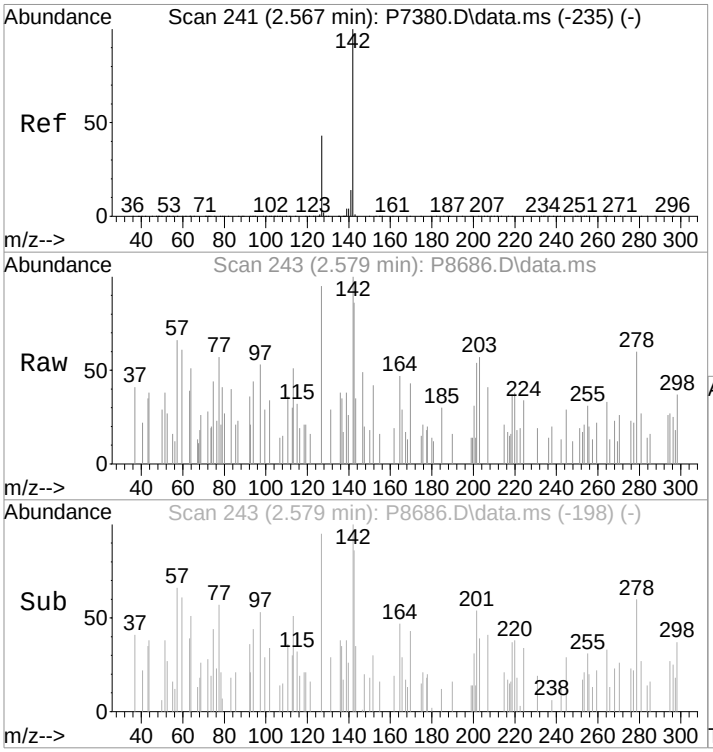


#5
Bromomethane
Concen: 0.25 ppb
RT: 1.683 min Scan# 96
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion: 94 Resp: 955

Ion	Ratio	Lower	Upper
94	100		
96	50.8	79.4	119.4#

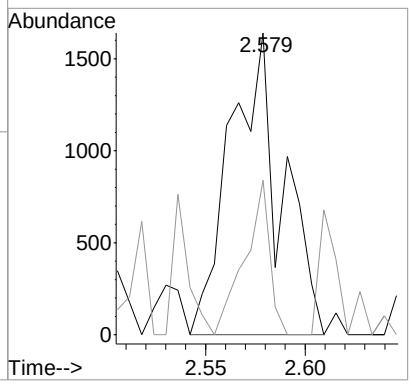


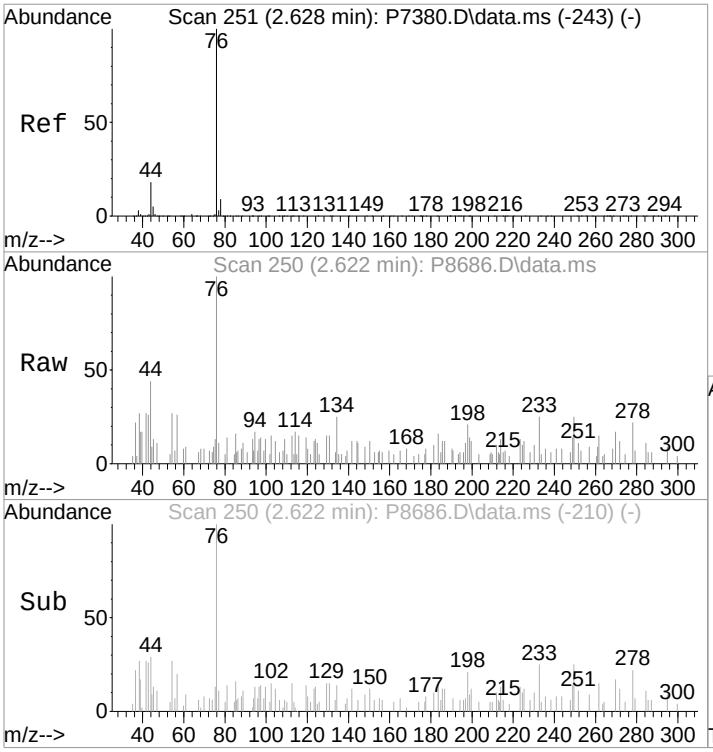


#17
Iodomethane
Concen: 0.36 ppb m
RT: 2.579 min Scan# 243
Delta R.T. 0.012 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:142 Resp: 2954

Ion	Ratio	Lower	Upper
142	100		
127	95.4	23.1	63.1#

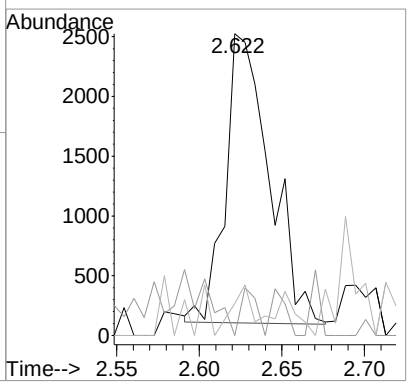


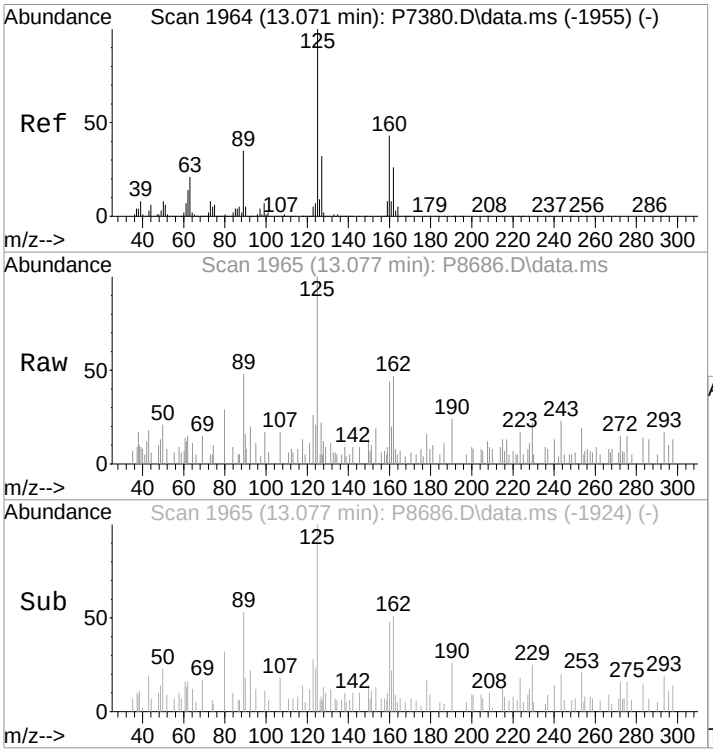


#18
Carbon Disulfide
Concen: 0.26 ppb
RT: 2.622 min Scan# 250
Delta R.T. -0.012 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion: 76 Resp: 4516

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	29.5
77	10.6	0.0	22.7

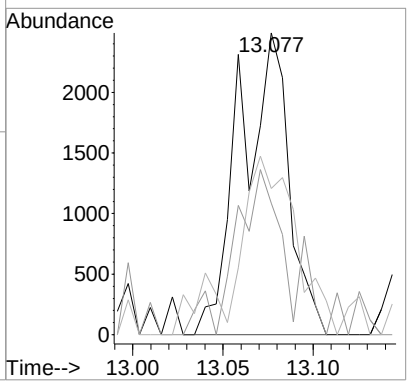


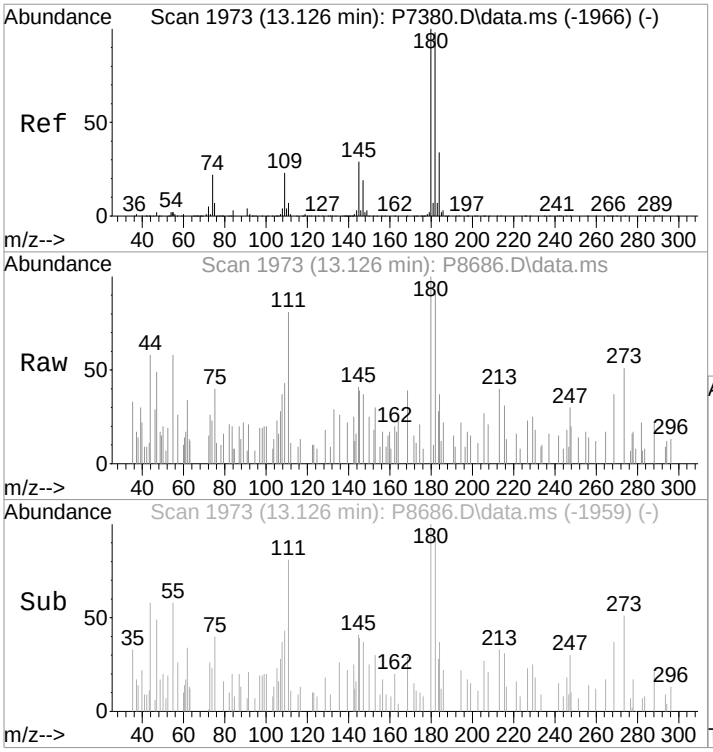


#112
Trielution Dichlorotoluene
Concen: 0.45 ppb m
RT: 13.077 min Scan# 1965
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:125 Resp: 4663

Ion	Ratio	Lower	Upper
125	100		
160	43.5	34.6	51.8
89	48.5	28.0	42.0#

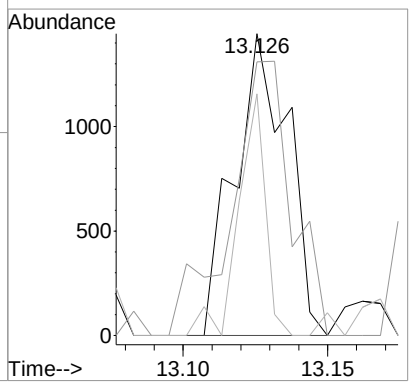


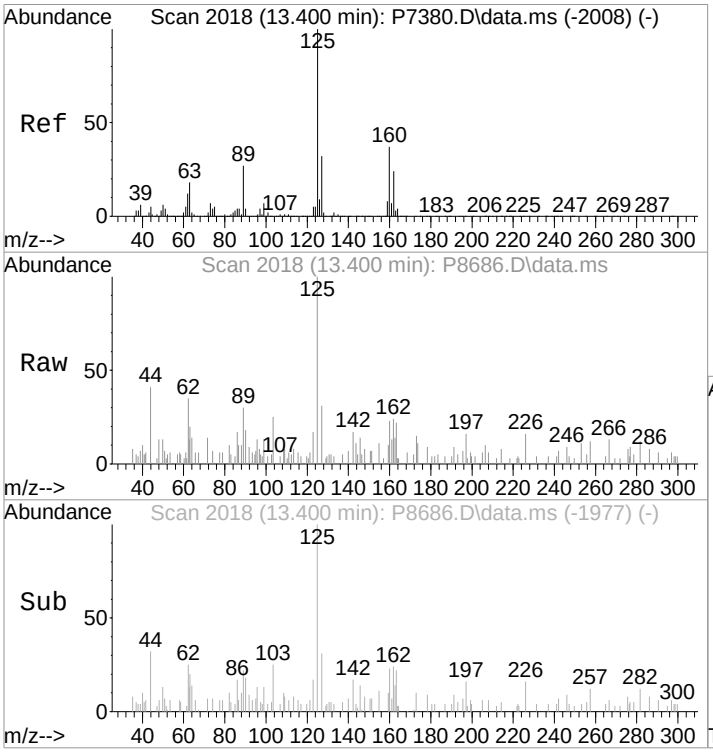


#113
1,3,5 Trichlorobenzene
Concen: 0.20 ppb
RT: 13.126 min Scan# 1973
Delta R.T. -0.006 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:180 Resp: 1858

Ion	Ratio	Lower	Upper
180	100		
182	90.6	78.6	117.8
145	80.0	23.4	35.2#

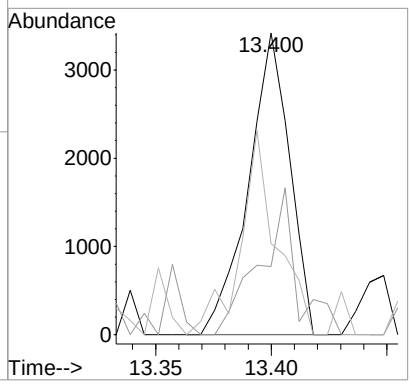


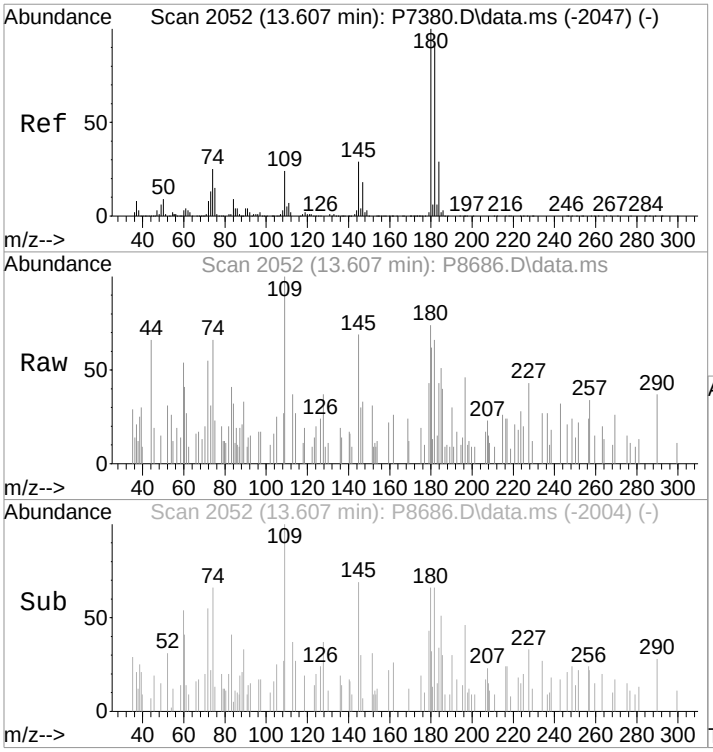


#114
Coelution Dichlorotoluene
Concen: 0.38 ppb
RT: 13.400 min Scan# 2018
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:125 Resp: 4236

Ion	Ratio	Lower	Upper
125	100		
160	22.6	29.8	44.6#
89	30.2	21.7	32.5

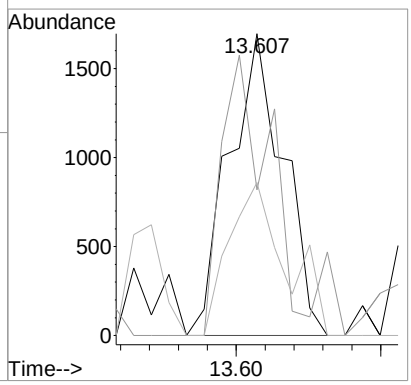


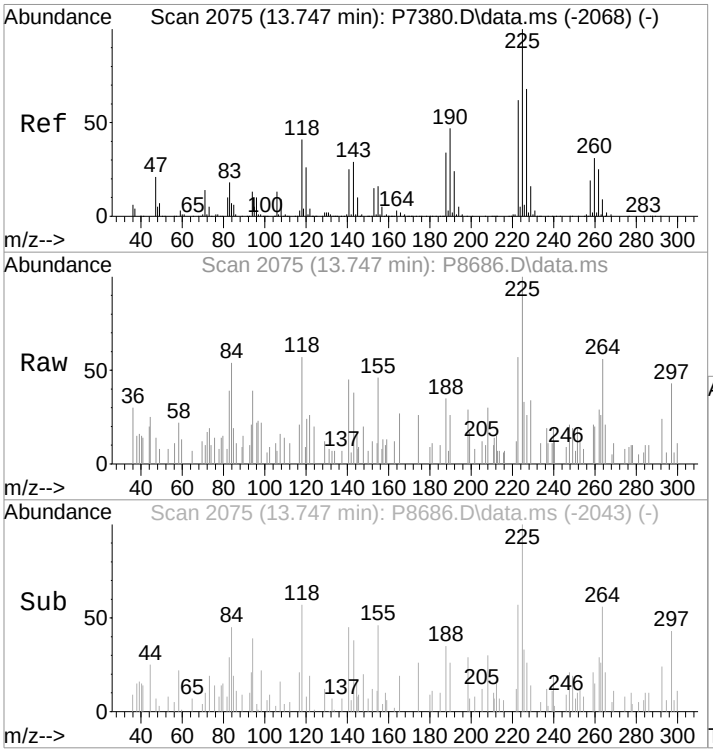


#115
1,2,4-Tcbenzene
Concen: 0.28 ppb
RT: 13.607 min Scan# 2052
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:180 Resp: 2211

Ion	Ratio	Lower	Upper
180	100		
182	48.3	71.4	111.4#
145	50.7	8.8	48.8#

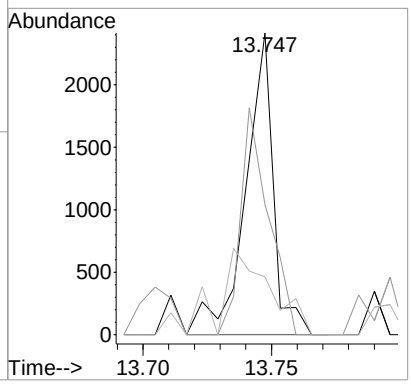


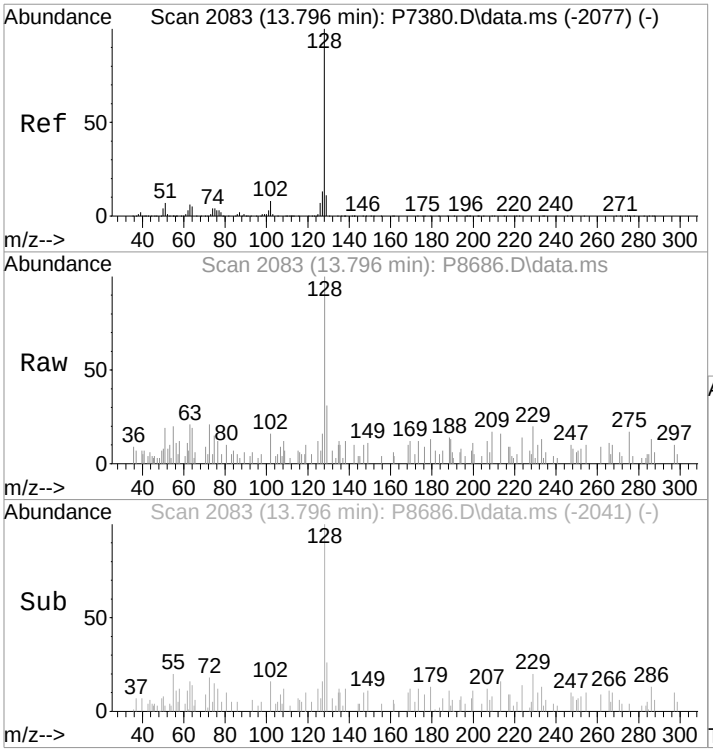


#116
Hexachlorobt
Concen: 0.50 ppb
RT: 13.747 min Scan# 2075
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:225 Resp: 1832

Ion	Ratio	Lower	Upper
225	100		
223	43.1	42.2	82.2
227	19.2	47.7	87.7#

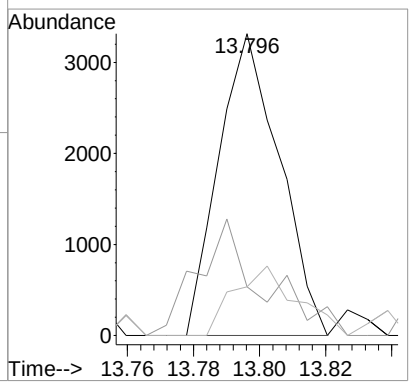


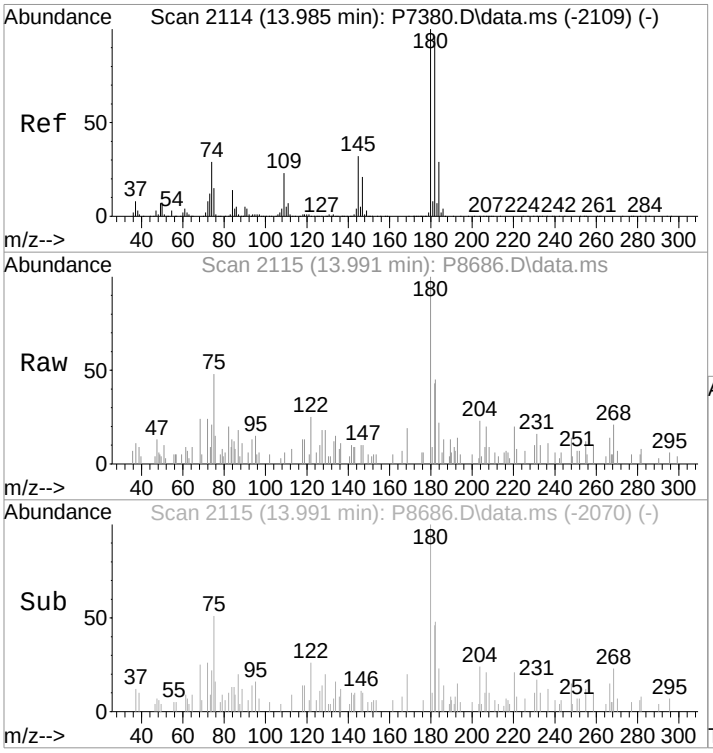


#117
Naphthalen
Concen: 0.29 ppb
RT: 13.796 min Scan# 2083
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:128 Resp: 4247

Ion	Ratio	Lower	Upper
128	100		
127	16.2	0.0	32.8
102	16.1	0.0	28.5

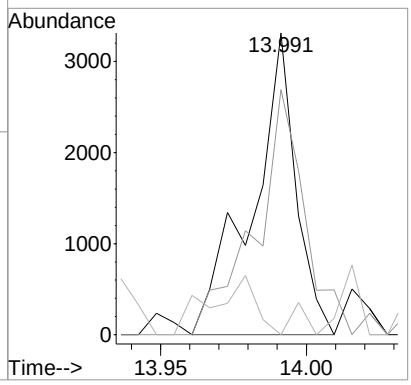


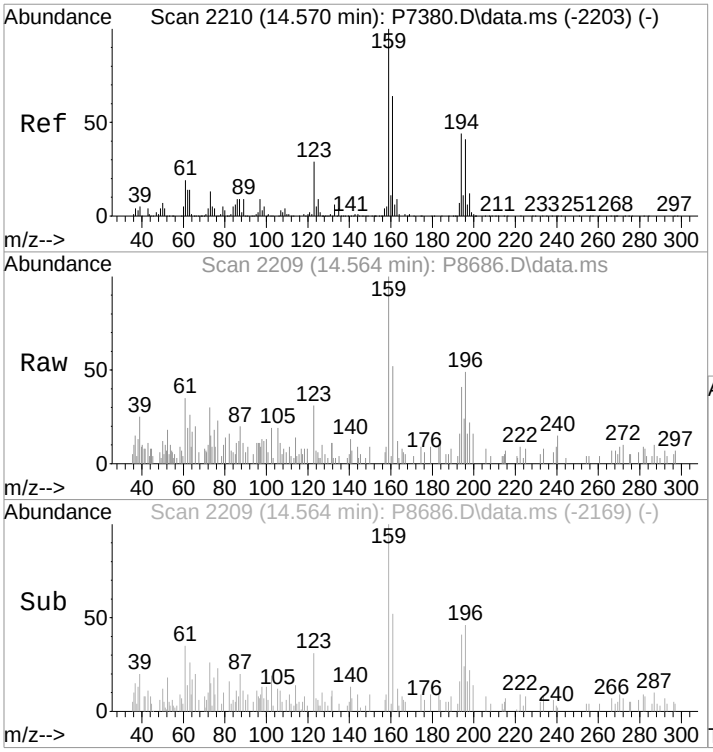


#118
1,2,3-Tclbenzene
Concen: 0.53 ppb m
RT: 13.991 min Scan# 2115
Delta R.T. 0.006 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:180 Resp: 3463

Ion	Ratio	Lower	Upper
180	100		
182	45.3	75.9	115.9#
145	0.0	11.8	51.8#

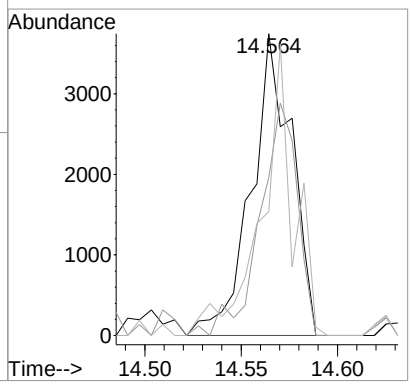


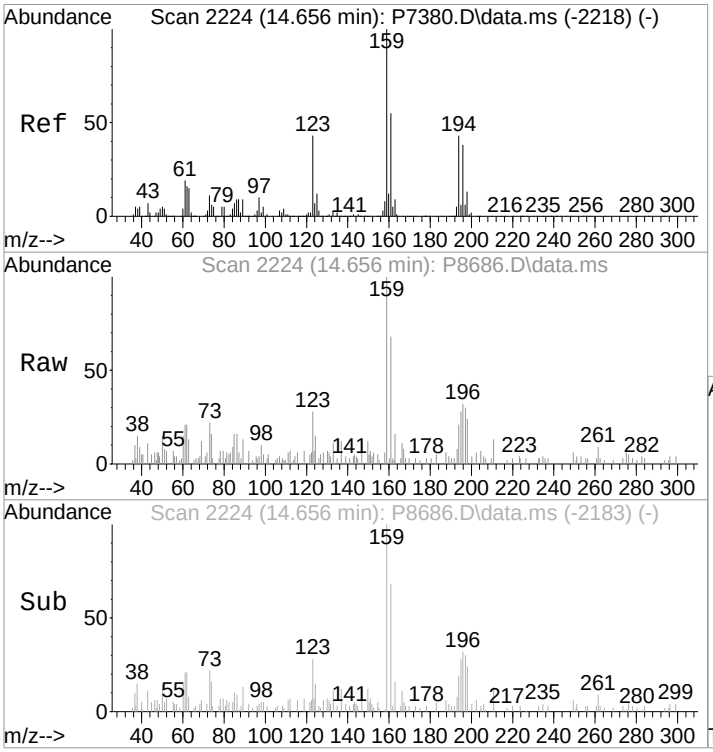


#119
2,4,5-Trichlorotolene
Concen: 1.07 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:159 Resp: 5458

Ion	Ratio	Lower	Upper
159	100		
161	52.4	51.0	76.4
194	41.0	35.4	53.2

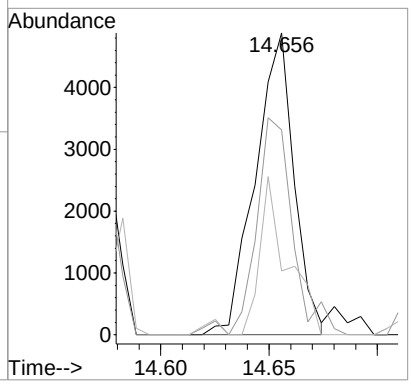




#120
2,3,6-Trichlorotoluene
Concen: 1.43 ppb m
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:159 Resp: 6072

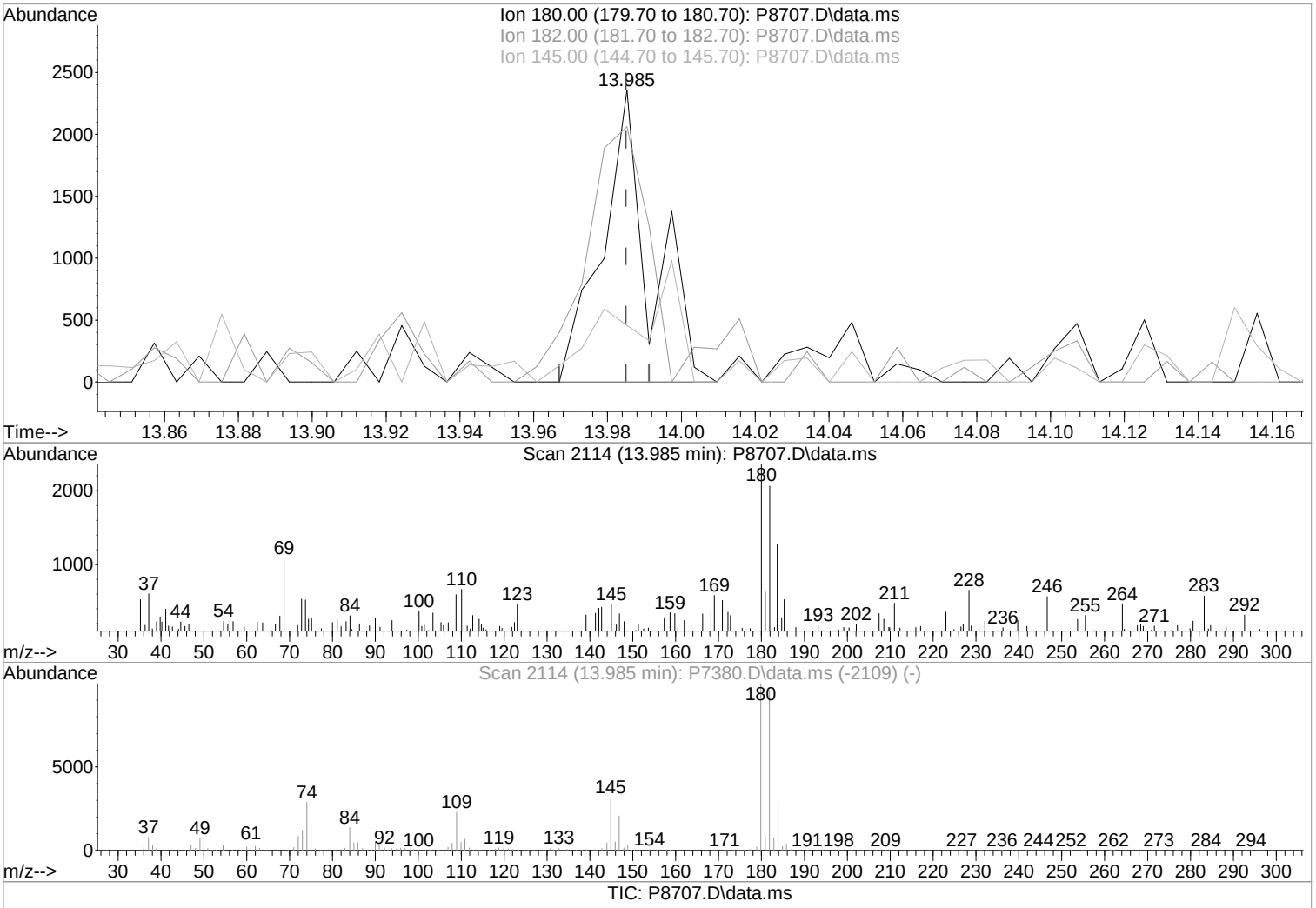
Ion	Ratio	Lower	Upper
159	100		
161	67.8	44.3	66.5#
194	21.1	34.8	52.2#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8707.D
Acq On : 27 Mar 2017 12:22 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 13:54:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8707.D\data.ms

(118) 1,2,3-Tclbenzene

13.985min (+0.000) 0.31 ppb m

response 2160

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	87.45
145.00	31.80	19.42
0.00	0.00	0.00

Manual Integration:

After

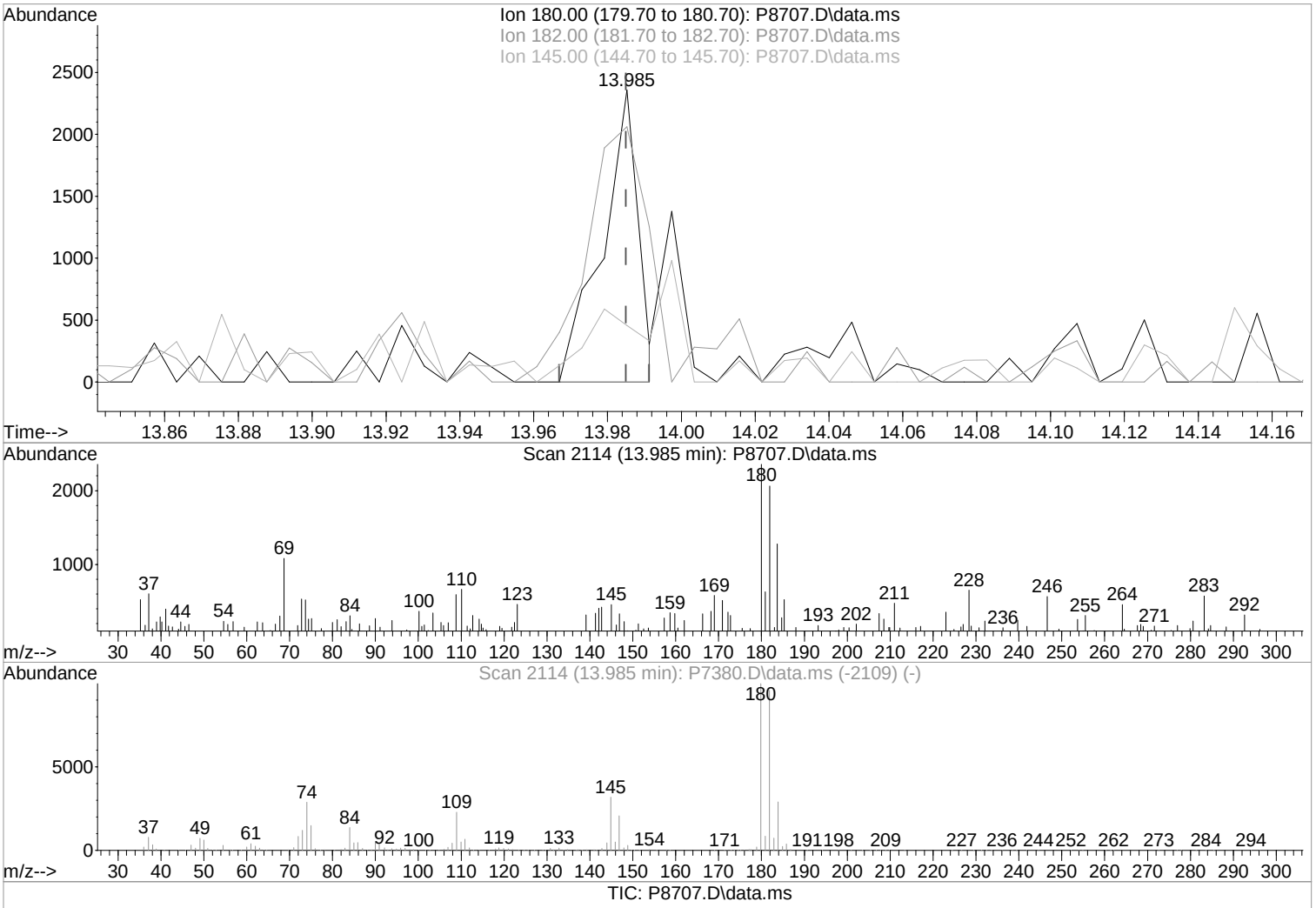
Split Peak

03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8707.D
Acq On : 27 Mar 2017 12:22 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 13:54:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8707.D\data.ms

(118) 1,2,3-Tclbenzene

13.985min (+0.000) 0.24 ppb

response 1613

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	87.45
145.00	31.80	19.42
0.00	0.00	0.00

Manual Integration:

Before

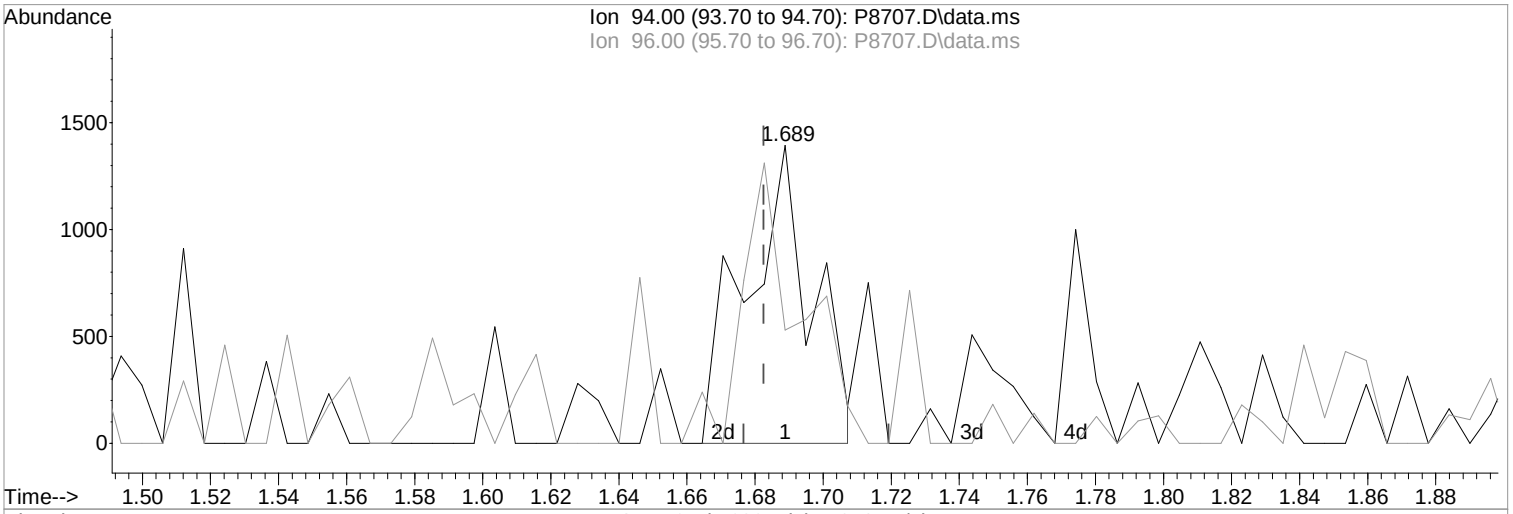
03/28/17

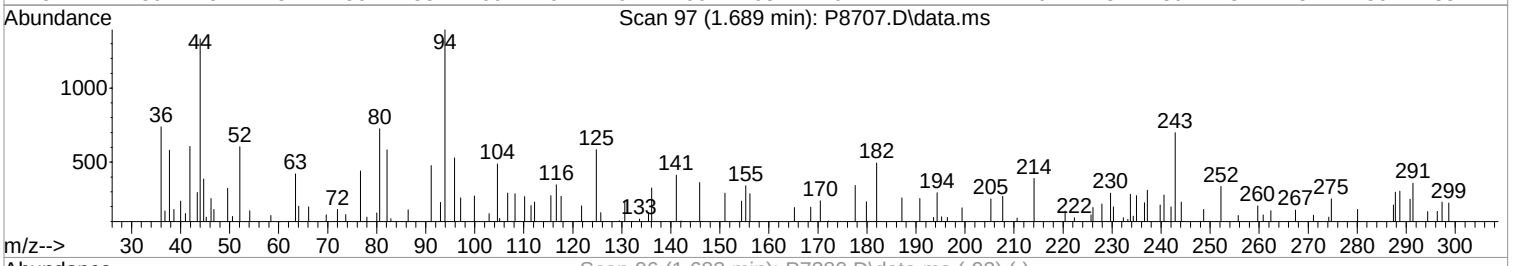
1st 03/28/17
2nd 03/28/17

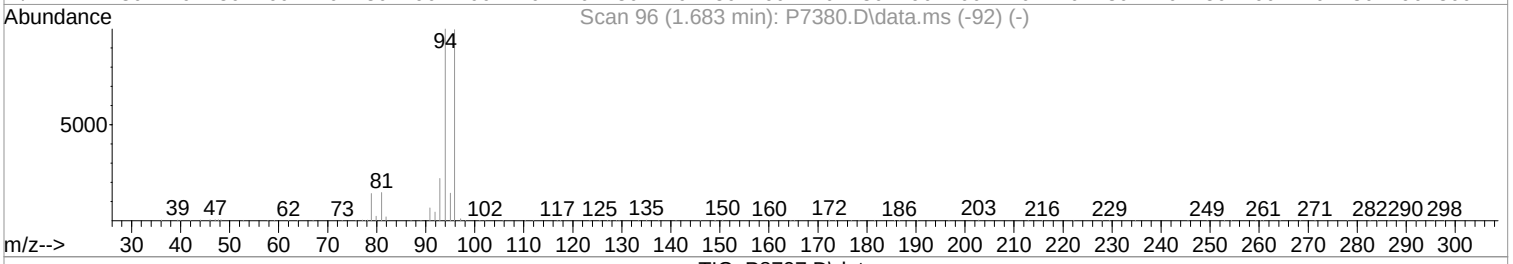
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8707.D
Acq On : 27 Mar 2017 12:22 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 13:54:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8707.D\data.ms

(5) Bromomethane (P)

1.689min (+0.006) 0.47 ppb m

response 1884

Ion	Exp%	Act%
94.00	100	100
96.00	99.40	37.95#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

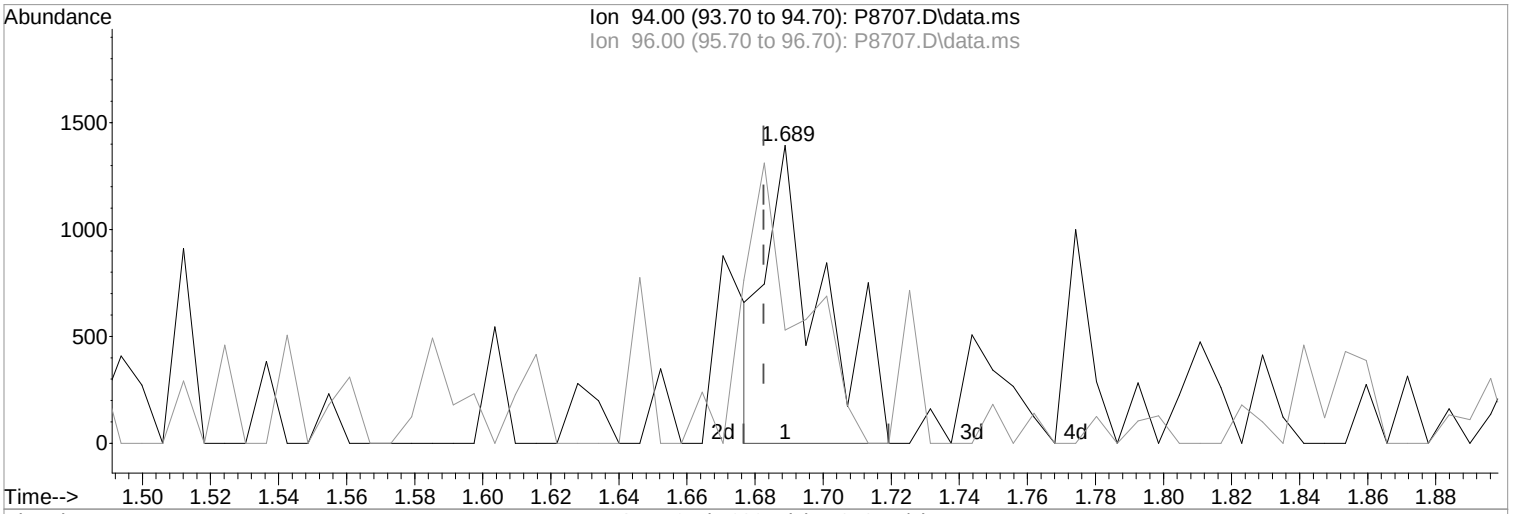
03/28/17

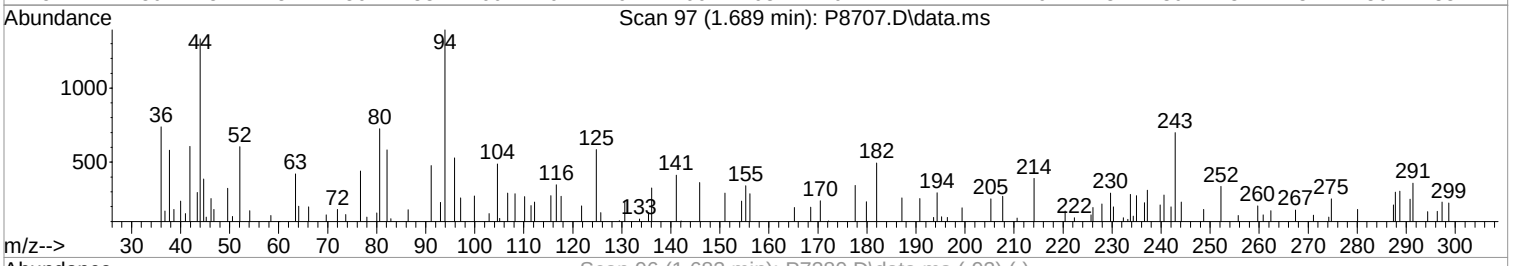
1st 03/28/17
2nd 03/28/17

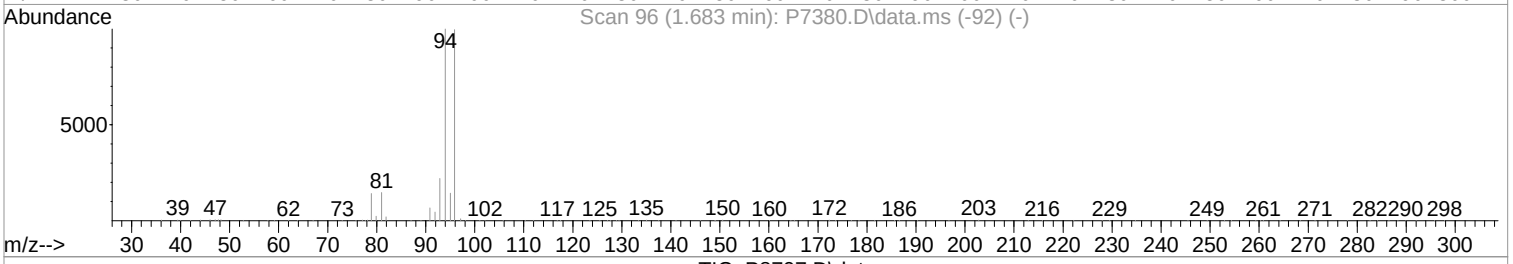
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8707.D
Acq On : 27 Mar 2017 12:22 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 13:54:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8707.D\data.ms

(5) Bromomethane (P)

1.689min (+0.006) 0.40 ppb

response 1596

Ion	Exp%	Act%
94.00	100	100
96.00	99.40	37.95#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/28/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8707.D
Acq On : 27 Mar 2017 12:22 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 10:26:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

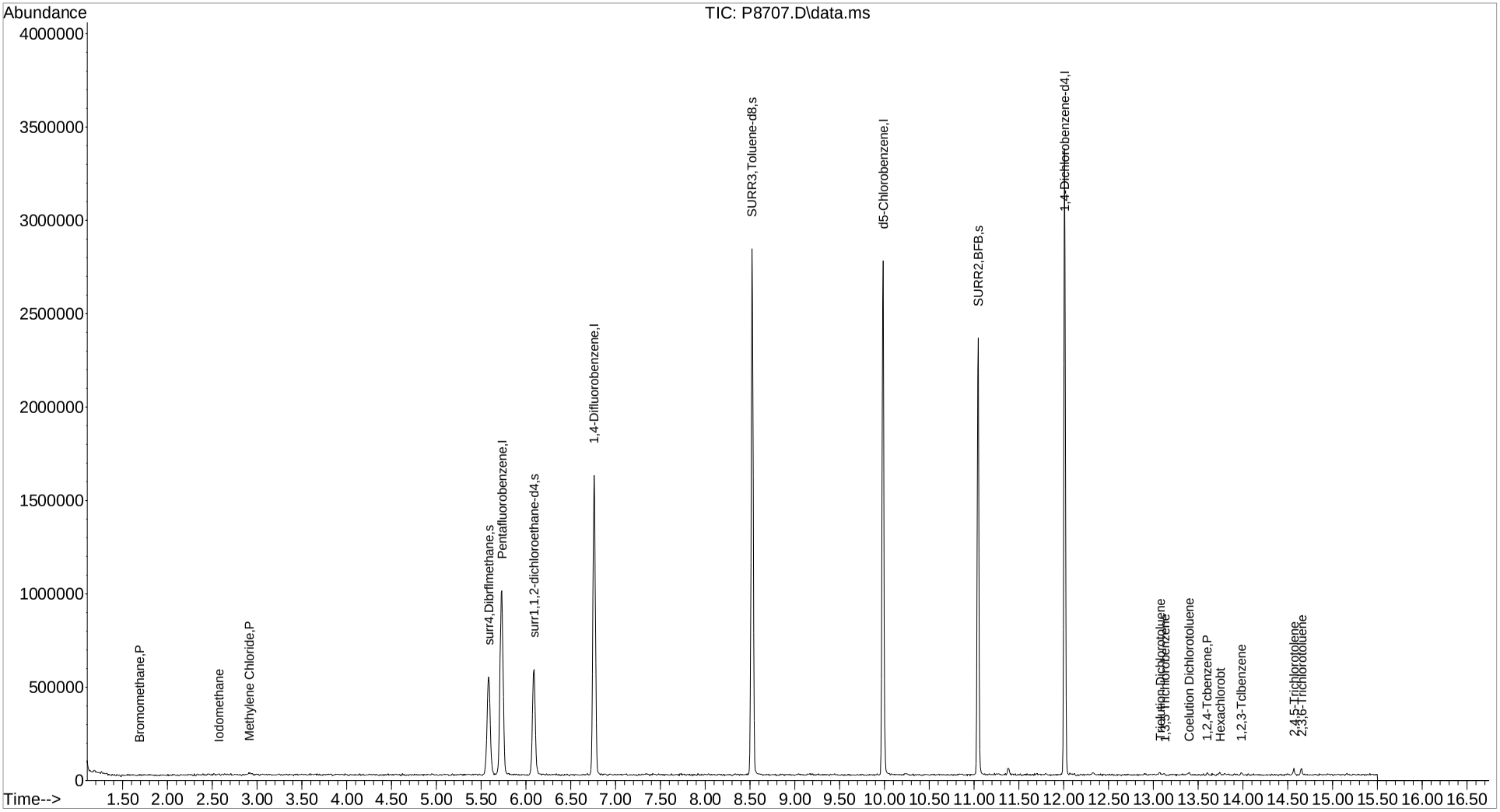
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	813330	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1336190	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1222010	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	633229	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	386151	53.56	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.12%				
48) surr1,1,2-dichloroetha...	6.090	65	445482	55.65	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.30%				
65) SURR3,Toluene-d8	8.523	98	1650507	55.37	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.74%				
70) SURR2,BFB	11.047	95	584013	50.56	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.12%				
Target Compounds							Qvalue
5) Bromomethane	1.689	94	1884m	0.47	ppb		
17) Iodomethane	2.573	142	3535	0.42	ppb		90
22) Methylene Chloride	2.908	84	4027	0.64	ppb	#	91
112) Trielution Dichlorotol...	13.077	125	4935	0.46	ppb		92
113) 1,3,5 Trichlorobenzene	13.126	180	2498	0.26	ppb	#	68
114) Coelution Dichlorotoluene	13.394	125	4284	0.37	ppb	#	85
115) 1,2,4-Tcbenzene	13.601	180	2342	0.28	ppb	#	82
116) Hexachlorobt	13.747	225	1756	0.46	ppb	#	66
118) 1,2,3-Tclbenzene	13.985	180	2160m	0.31	ppb		
119) 2,4,5-Trichlorotolene	14.570	159	5928	1.11	ppb	#	85
120) 2,3,6-Trichlorotoluene	14.656	159	5994	1.35	ppb	#	75

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

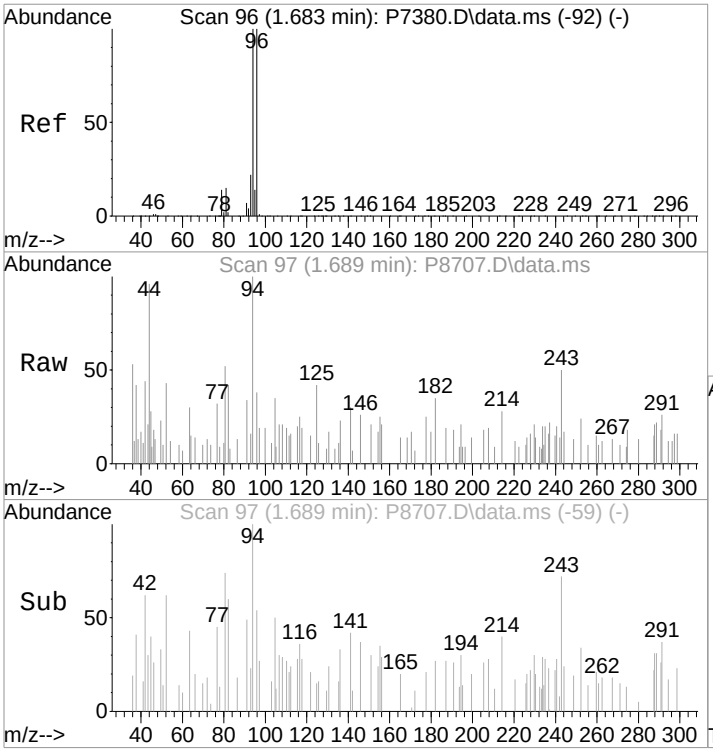
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8707.D
Acq On : 27 Mar 2017 12:22 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 10:26:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



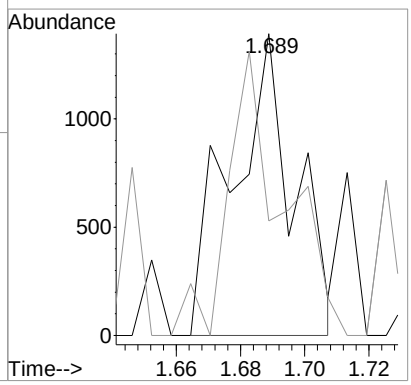
1st 03/28/17
2nd 03/28/17

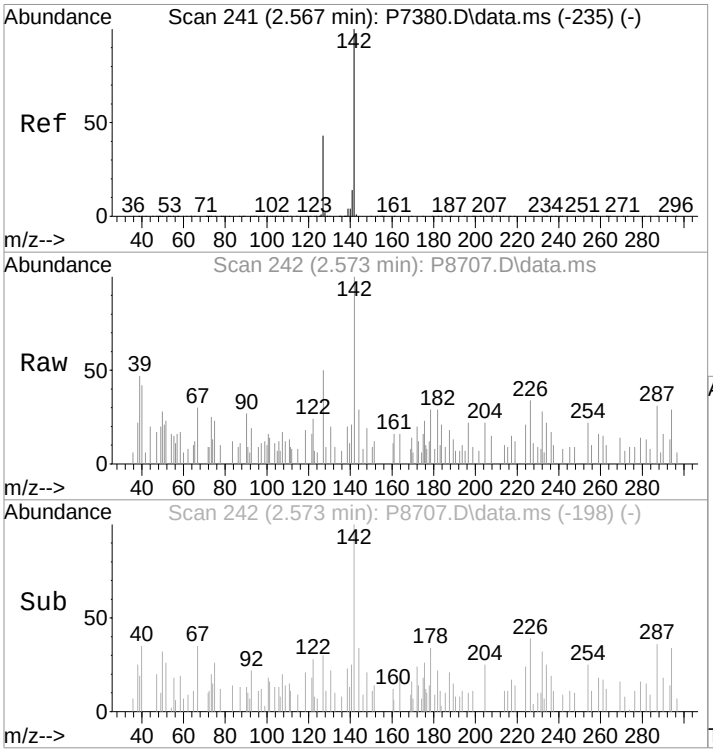


#5
Bromomethane
Concen: 0.47 ppb m
RT: 1.689 min Scan# 97
Delta R.T. 0.006 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion: 94 Resp: 1884

Ion	Ratio	Lower	Upper
94	100		
96	37.9	79.4	119.4#

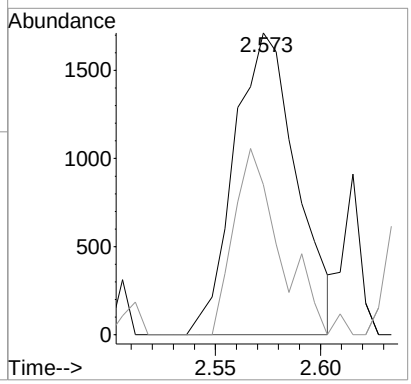


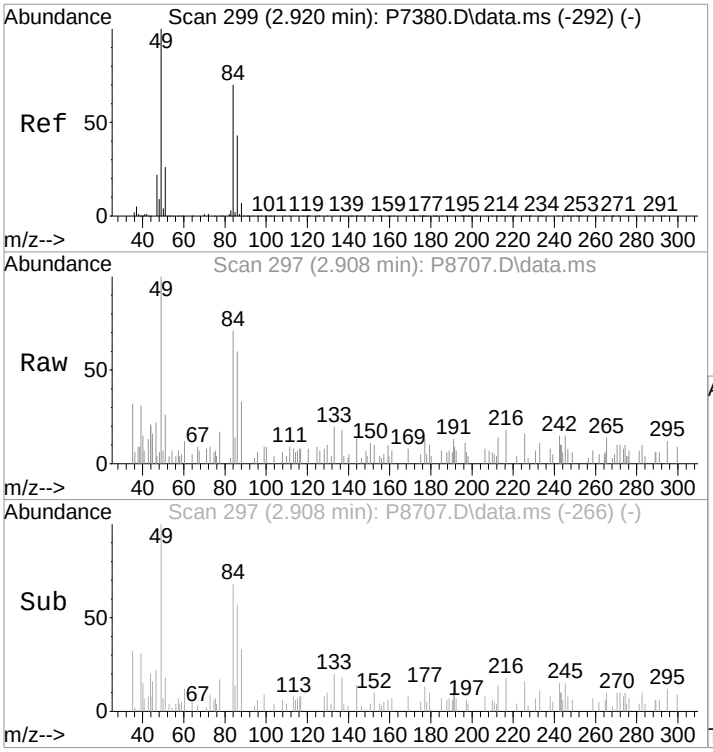


#17
Iodomethane
Concen: 0.42 ppb
RT: 2.573 min Scan# 242
Delta R.T. 0.006 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:142 Resp: 3535

Ion	Ratio	Lower	Upper
142	100		
127	49.7	23.1	63.1

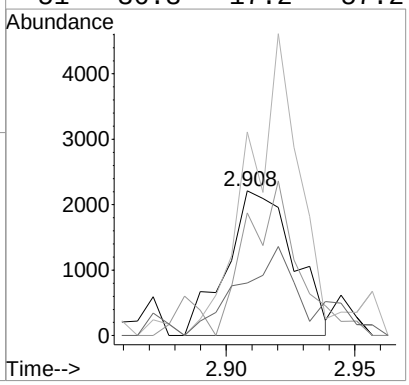


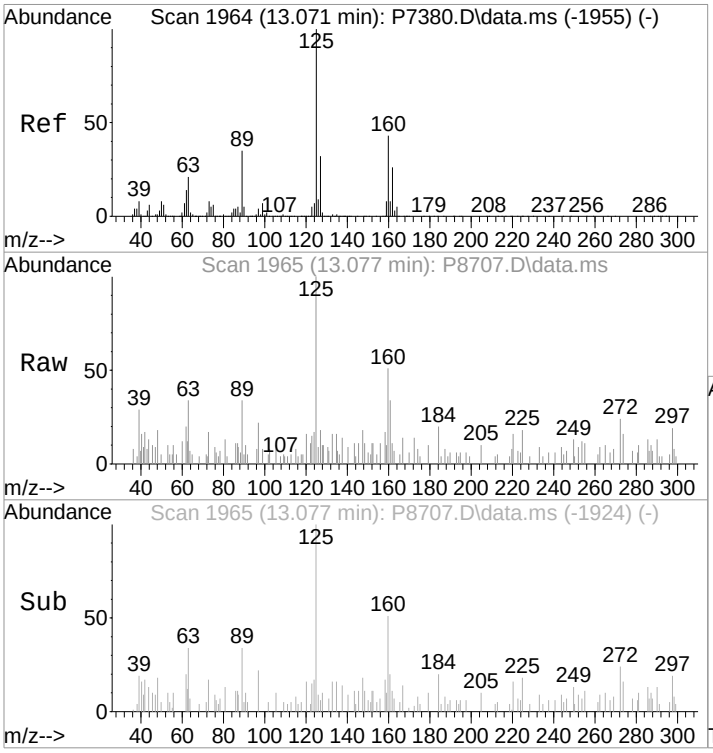


#22
Methylene Chloride
Concen: 0.64 ppb
RT: 2.908 min Scan# 297
Delta R.T. -0.012 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion: 84 Resp: 4027

Ion	Ratio	Lower	Upper
84	100		
86	84.8	41.5	81.5#
49	140.6	122.0	162.0
51	36.3	17.2	57.2

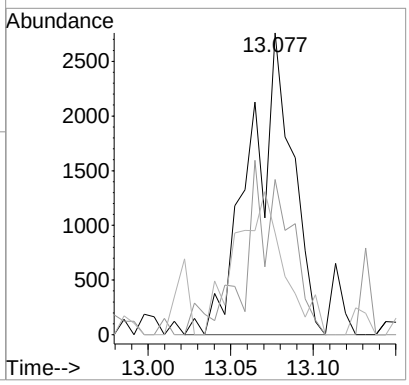


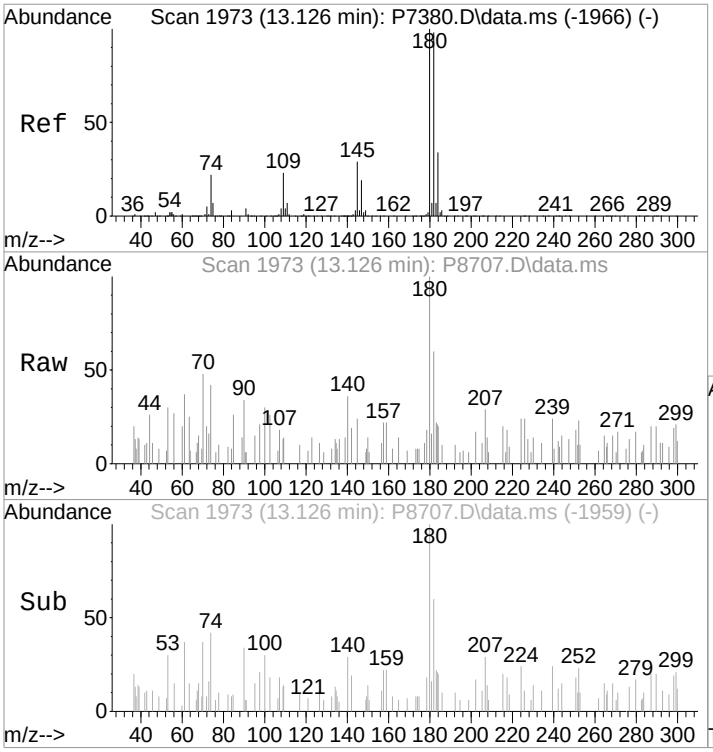


#112
Trielution Dichlorotoluene
Concen: 0.46 ppb
RT: 13.077 min Scan# 1965
Delta R.T. 0.000 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:125 Resp: 4935

Ion	Ratio	Lower	Upper
125	100		
160	51.4	34.6	51.8
89	33.8	28.0	42.0

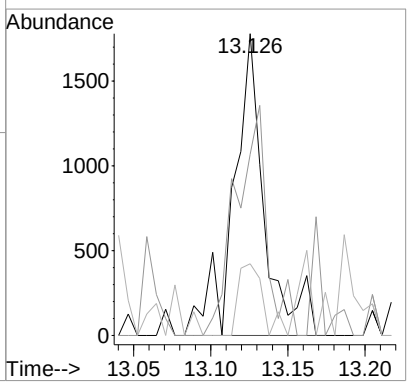


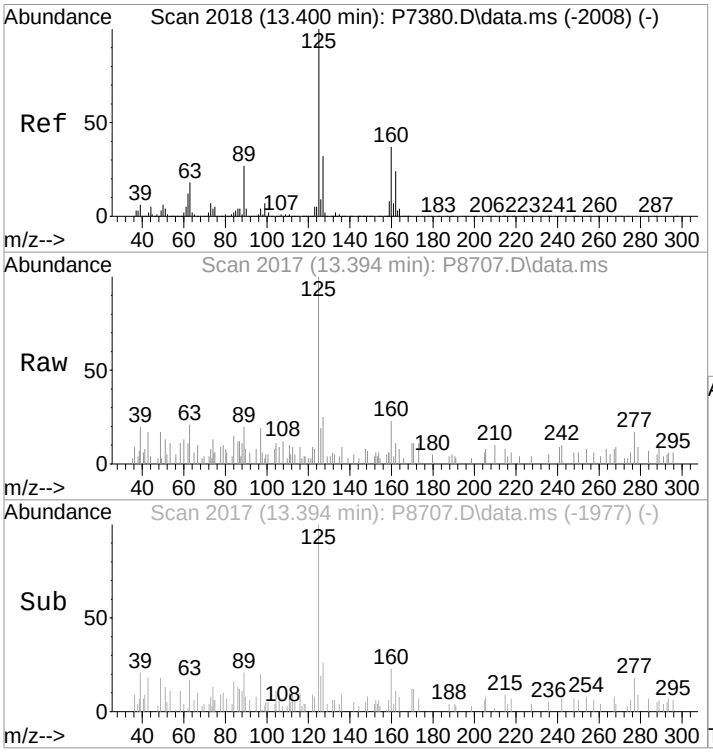


#113
1,3,5 Trichlorobenzene
Concen: 0.26 ppb
RT: 13.126 min Scan# 1973
Delta R.T. -0.006 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:180 Resp: 2498

Ion	Ratio	Lower	Upper
180	100		
182	60.0	78.6	117.8#
145	23.8	23.4	35.2

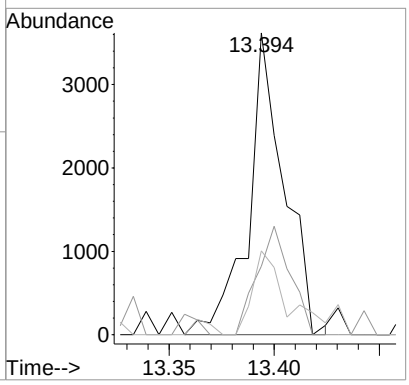


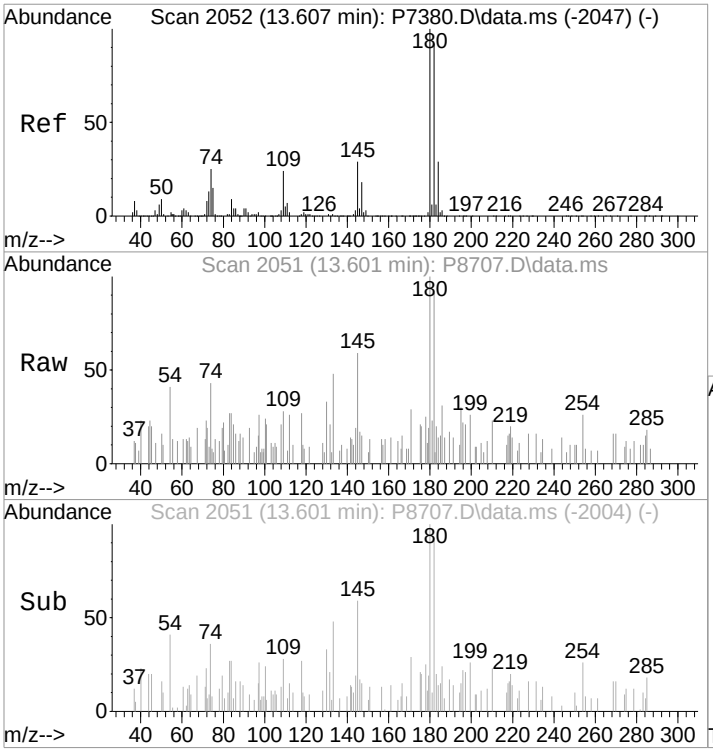


#114
Coelution Dichlorotoluene
Concen: 0.37 ppb
RT: 13.394 min Scan# 2017
Delta R.T. -0.006 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:125 Resp: 4284

Ion	Ratio	Lower	Upper
125	100		
160	22.7	29.8	44.6#
89	27.8	21.7	32.5

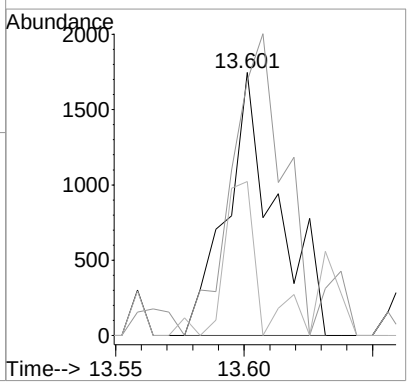


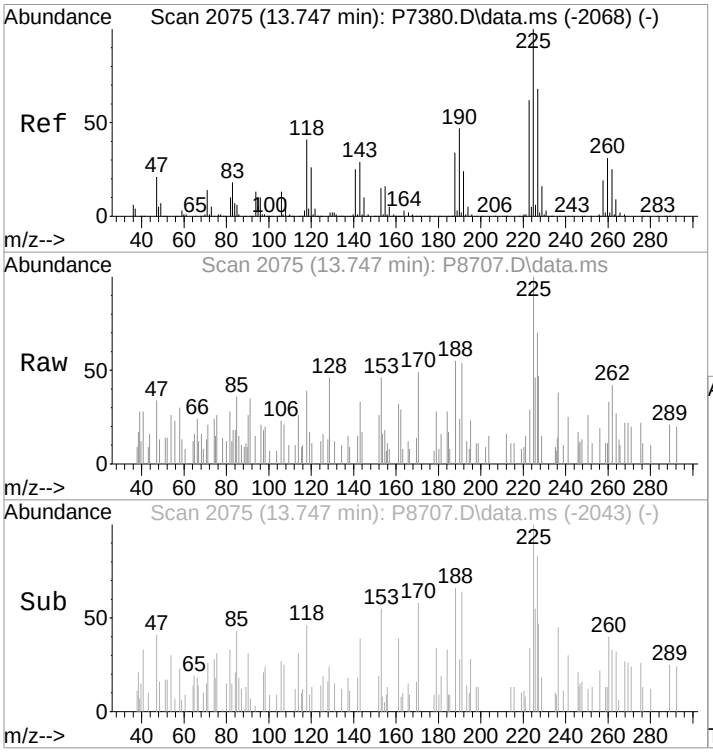


#115
1,2,4-Tcbenzene
Concen: 0.28 ppb
RT: 13.601 min Scan# 2051
Delta R.T. -0.006 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:180 Resp: 2342

Ion	Ratio	Lower	Upper
180	100		
182	96.8	71.4	111.4
145	58.5	8.8	48.8#

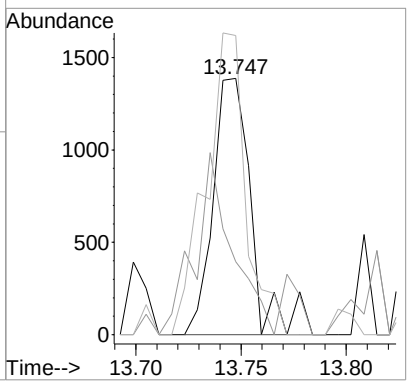


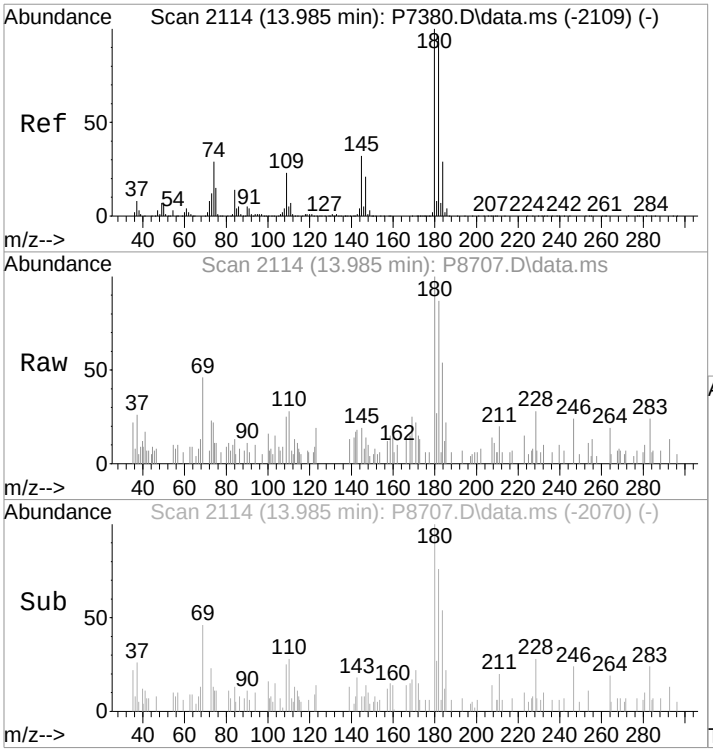


#116
Hexachlorobt
Concen: 0.46 ppb
RT: 13.747 min Scan# 2075
Delta R.T. 0.000 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:225 Resp: 1756

Ion	Ratio	Lower	Upper
225	100		
223	19.5	42.2	82.2#
227	79.8	47.7	87.7

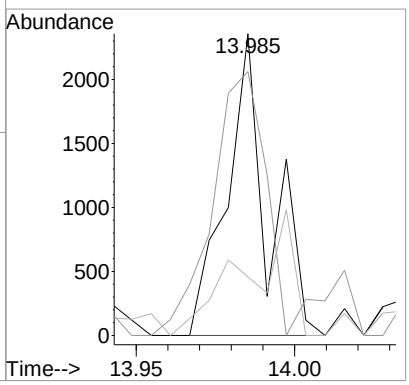


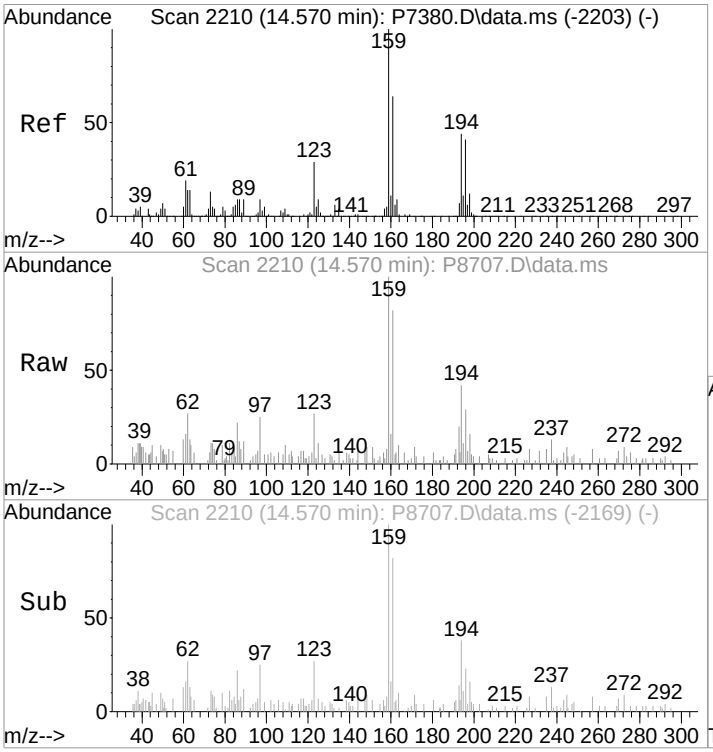


#118
1,2,3-Tclbenzene
Concen: 0.31 ppb m
RT: 13.985 min Scan# 2114
Delta R.T. 0.000 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:180 Resp: 2160

Ion	Ratio	Lower	Upper
180	100		
182	87.4	75.9	115.9
145	19.4	11.8	51.8

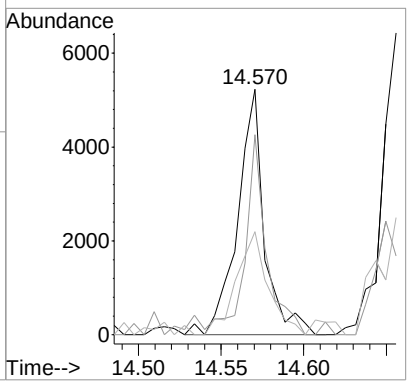


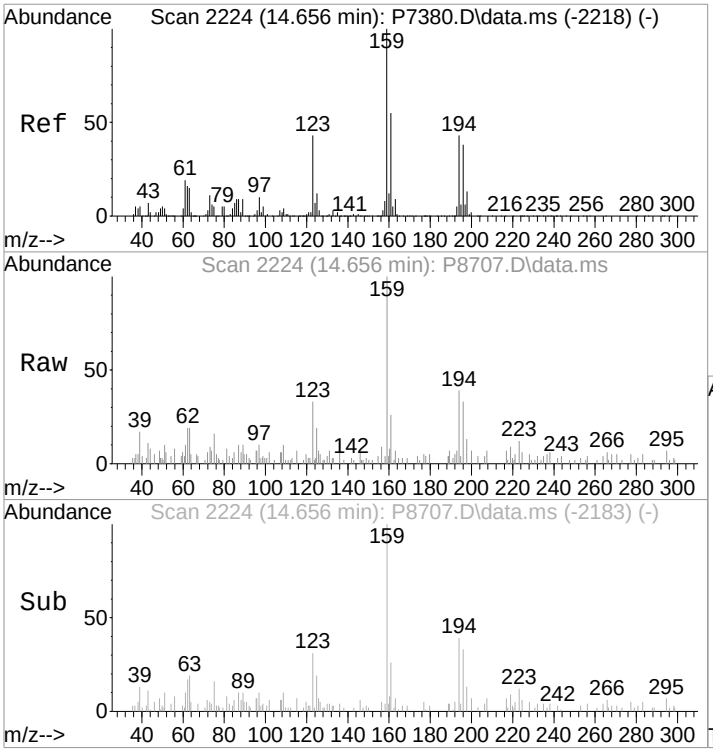


#119
2,4,5-Trichlorotolene
Concen: 1.11 ppb
RT: 14.570 min Scan# 2210
Delta R.T. 0.000 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:159 Resp: 5928

Ion	Ratio	Lower	Upper
159	100		
161	81.6	51.0	76.4#
194	42.0	35.4	53.2

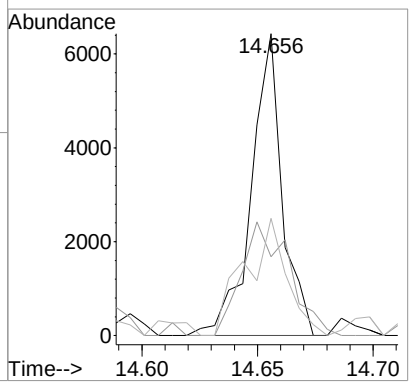




#120
2,3,6-Trichlorotoluene
Concen: 1.35 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P8707.D
Acq: 27 Mar 2017 12:22 pm

Tgt Ion:159 Resp: 5994

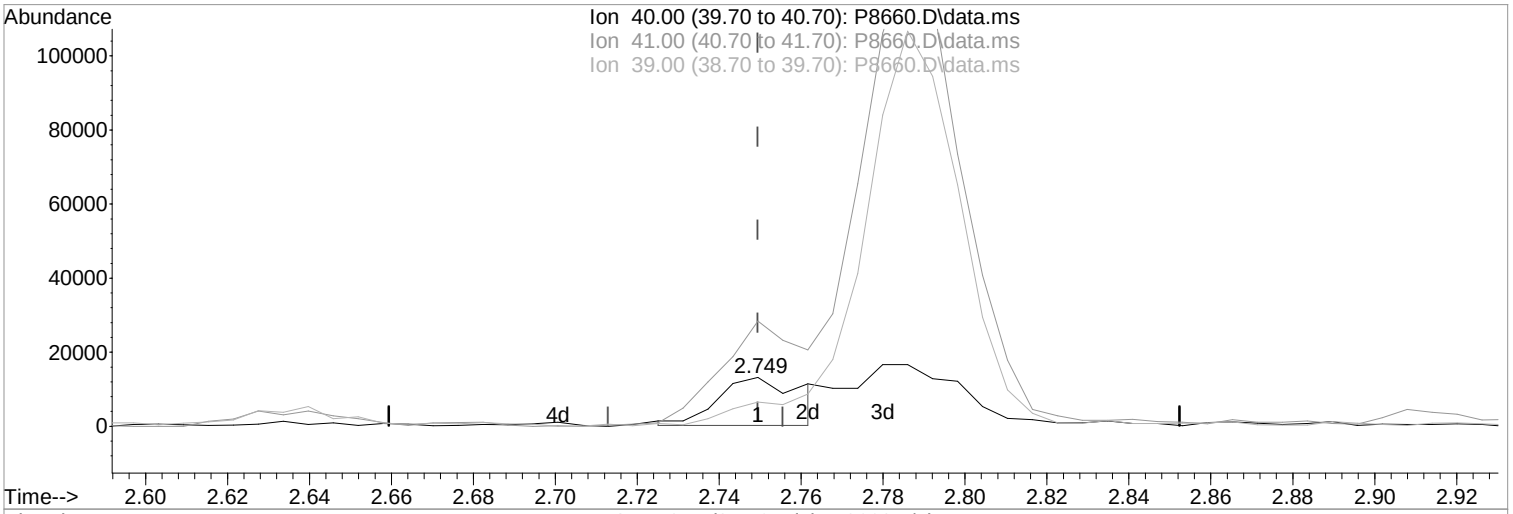
Ion	Ratio	Lower	Upper
159	100		
161	25.2	44.3	66.5#
194	41.4	34.8	52.2

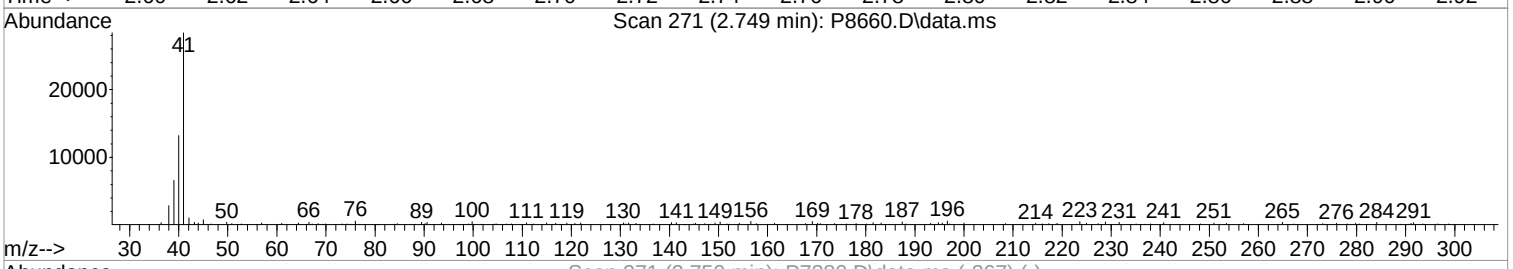


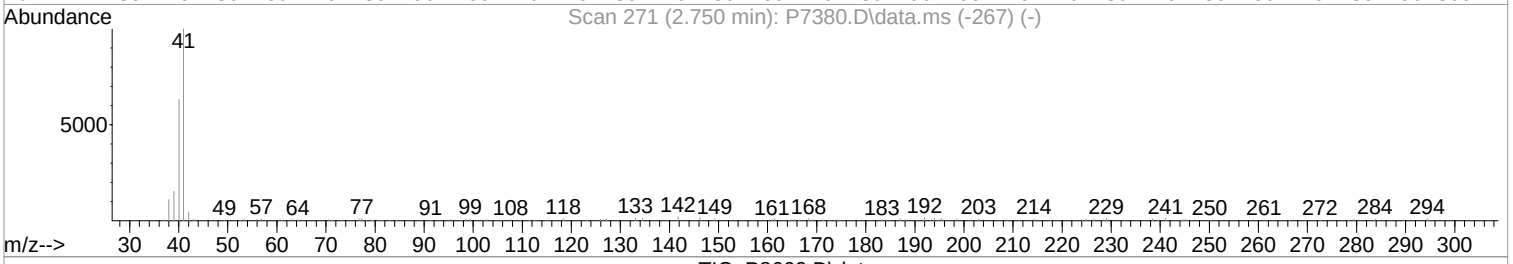
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:00:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8660.D\data.ms

(19) Acetonitrile

2.749min (+0.000) 101.86 ppb m

response 18208

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	214.96#
39.00	26.70	49.86#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

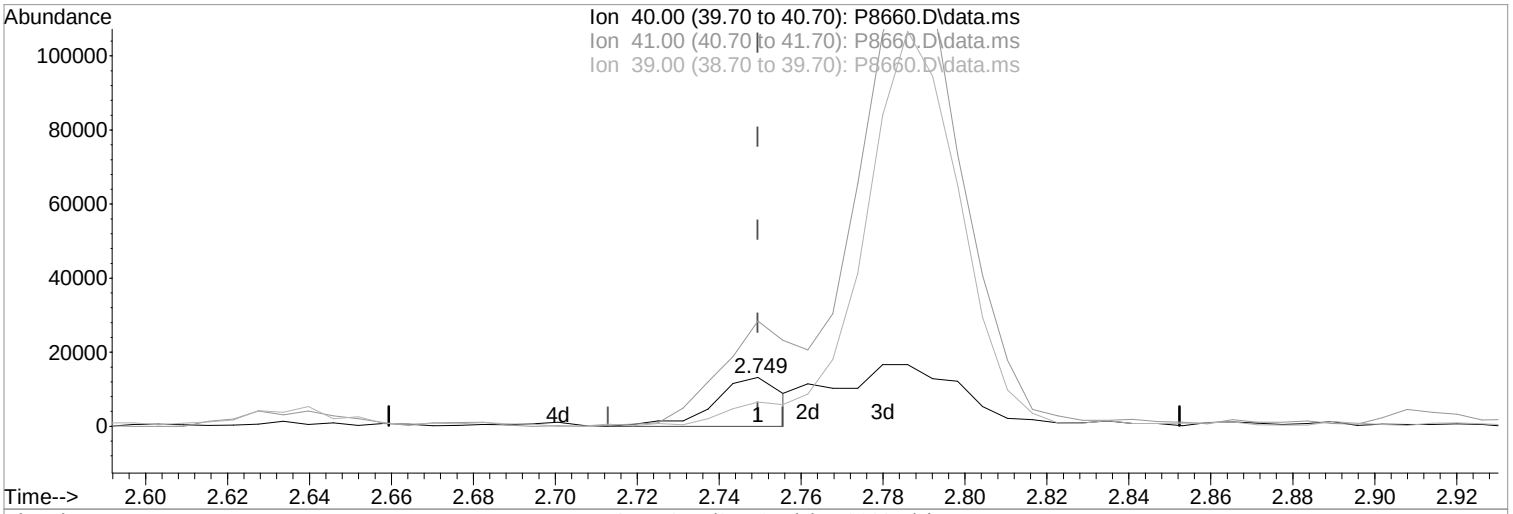
03/24/17

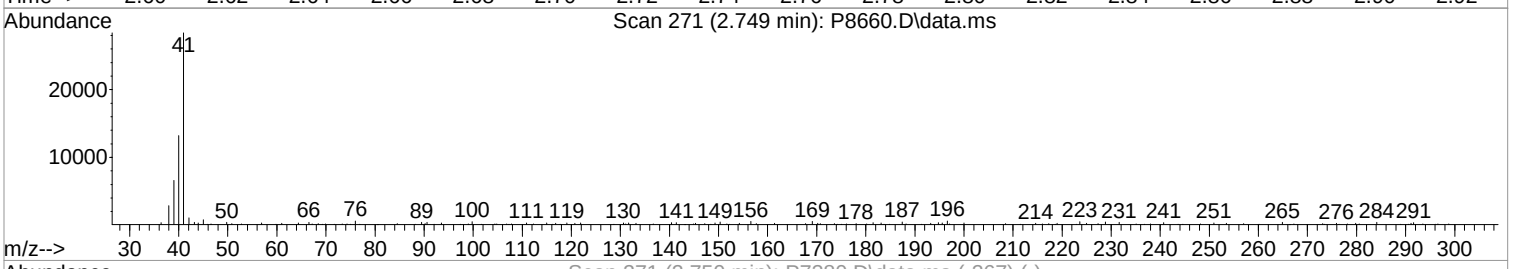
1st 03/24/17
2nd 03/28/17

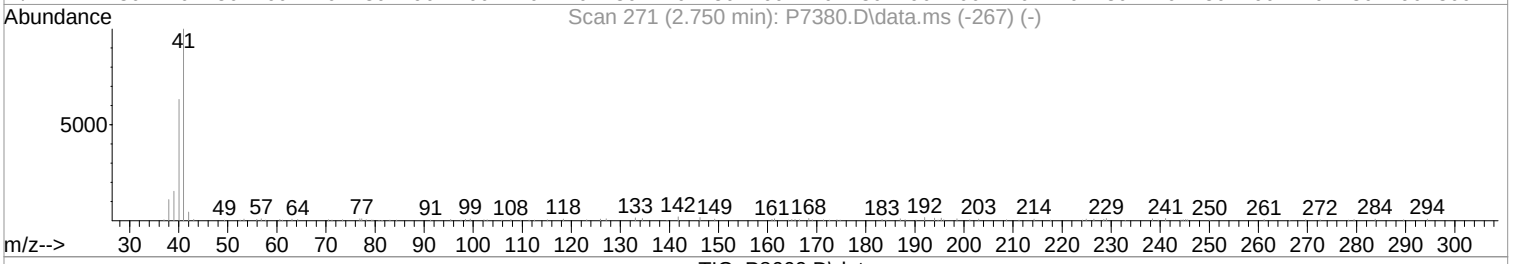
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:00:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8660.D\data.ms

(19) Acetonitrile

2.749min (+0.000) 85.29 ppb

response 15246

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	214.96#
39.00	26.70	49.86#
0.00	0.00	0.00

Manual Integration:

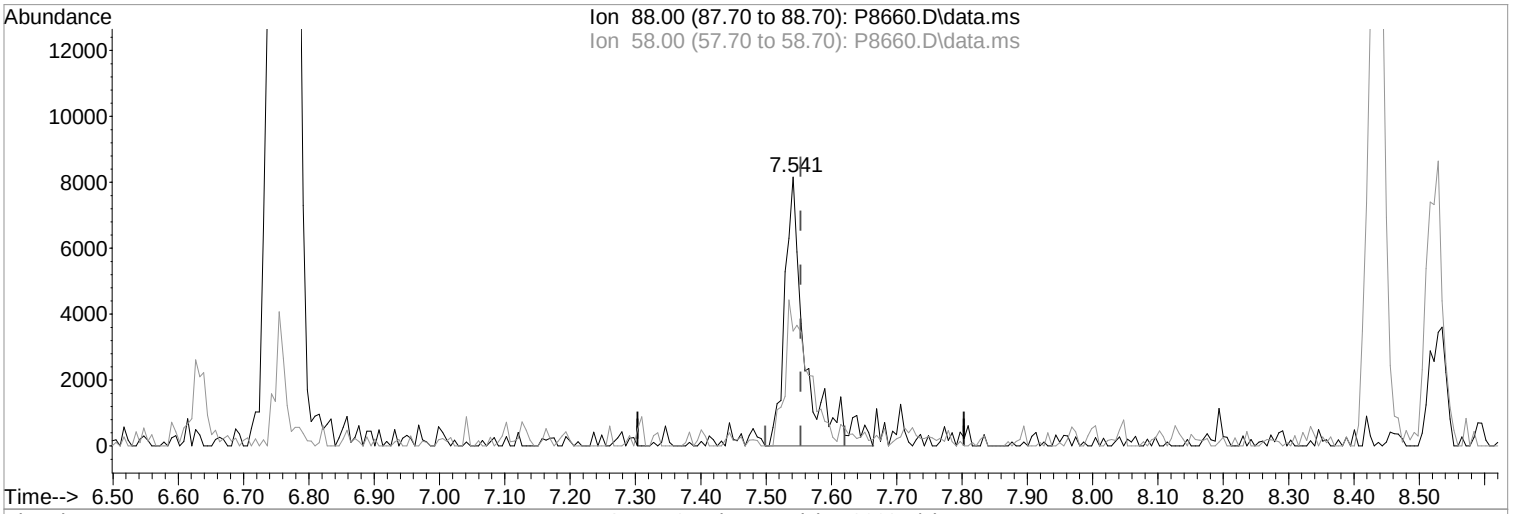
Before

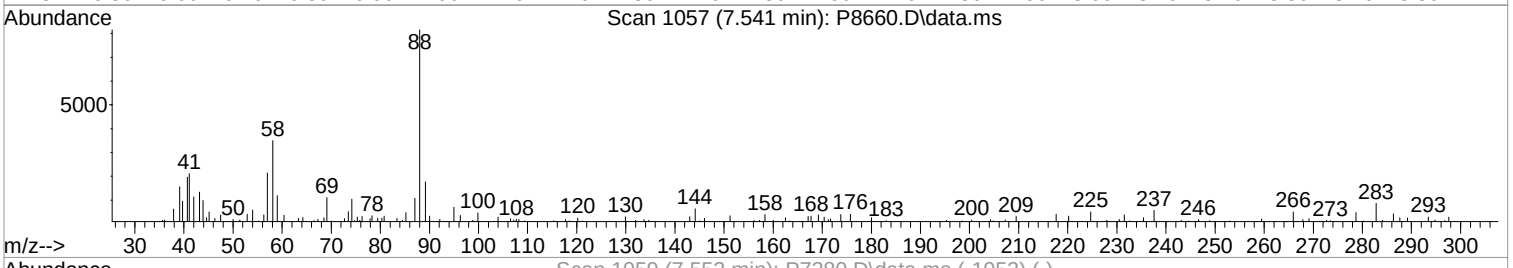
03/24/17

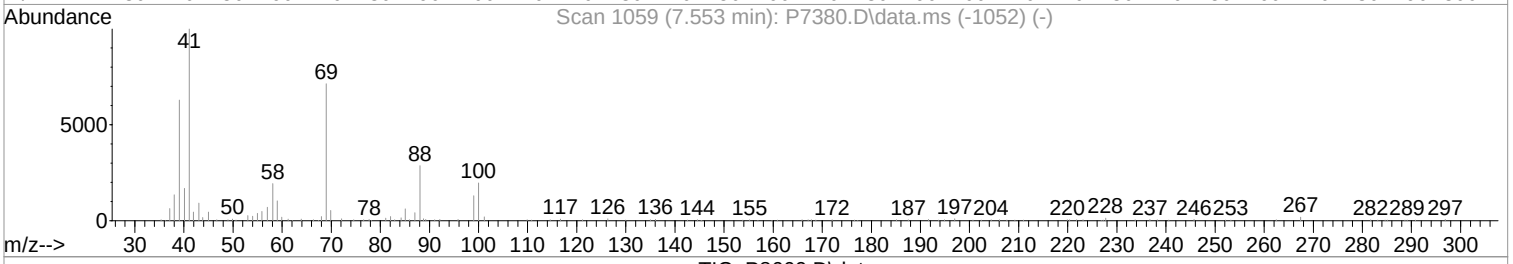
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:00:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8660.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.012) 366.61 ppb m

response 18106

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	42.79#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

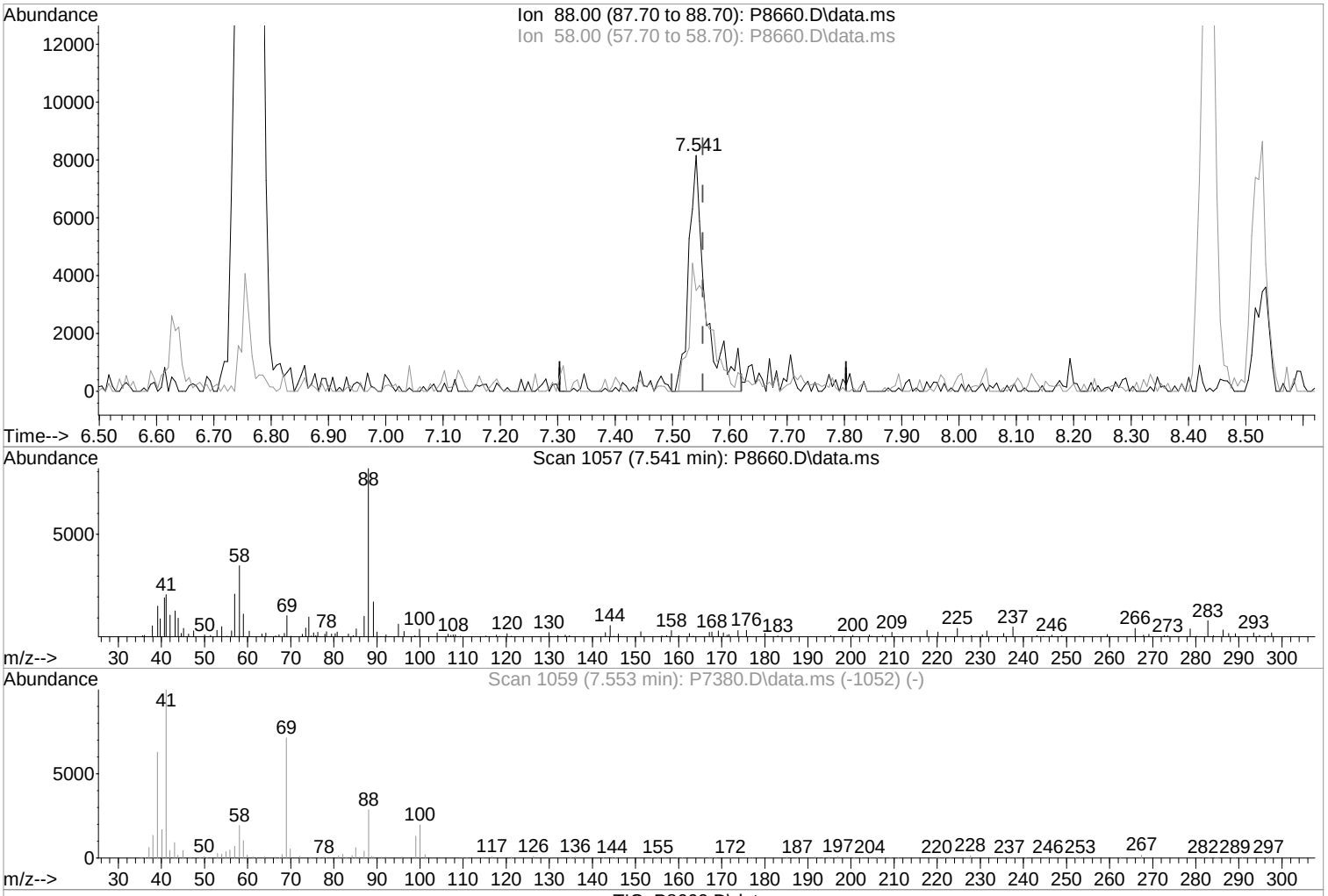
Poor integration.

03/24/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:00:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8660.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.012) 339.46 ppb

response 16856

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	42.79#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/24/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:02:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	848404	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1385870	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1265677	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	631868	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	408636	54.64	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.28%				
48) surr1,1,2-dichloroetha...	6.090	65	447698	53.92	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.84%				
65) SURR3,Toluene-d8	8.523	98	1679447	54.32	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.64%				
70) SURR2,BFB	11.047	95	603680	50.39	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	191065	18.51	ppb		96
3) Chloromethane	1.347	50	162819	17.60	ppb		97
4) Vinyl Chloride	1.427	62	172001	20.99	ppb		100
5) Bromomethane	1.683	94	90206	21.79	ppb		88
6) Chloroethane	1.762	64	89976	20.73	ppb		94
7) Freon 21	1.920	67	226975	21.88	ppb		95
8) Trichlorofluoromethane	1.969	101	190554	20.77	ppb		97
9) Diethyl Ether	2.225	59	78802	20.21	ppb	#	81
10) Freon 123a	2.231	67	154347	23.98	ppb		91
11) Freon 123	2.286	83	173669	23.40	ppb		98
12) Acrolein	2.329	56	16804	26.17	ppb		94
13) 1,1-Diclethene	2.426	96	121800	20.27	ppb		95
14) Freon 113	2.439	101	115701	17.82	ppb		82
15) Acetone	2.481	43	30598	24.55	ppb		92
16) 2-Propanol	2.634	45	86973	413.30	ppb		93
17) Iodomethane	2.567	142	186771	21.18	ppb		97
18) Carbon Disulfide	2.628	76	388001	21.18	ppb		97
19) Acetonitrile	2.749	40	18208m	101.86	ppb		
20) Allyl Chloride	2.786	76	72110	20.12	ppb		94
21) Methyl Acetate	2.829	43	58080	19.55	ppb		99
22) Methylene Chloride	2.914	84	134992	20.50	ppb		95
23) TBA	3.079	59	145405	417.57	ppb		92
24) Acrylonitrile	3.201	53	151409	104.15	ppb		89
25) Methyl-t-Butyl Ether	3.255	73	310568	19.60	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	132359	19.00	ppb		97
28) 1,1-Diclethane	3.786	63	238971	20.49	ppb		99
29) Vinyl Acetate	3.902	86	20742	18.26	ppb	#	94
30) DIPE	3.932	45	451354	20.83	ppb		98
31) 2-Chloro-1,3-Butadiene	3.914	53	206727	20.68	ppb		94
32) ETBE	4.511	59	402901	21.93	ppb		96
33) 2,2-Dichloropropane	4.694	77	184260	20.05	ppb		96
34) cis-1,2-Dichloroethene	4.700	96	147728	19.91	ppb		96
35) 2-Butanone	4.767	43	32575	17.77	ppb		95
36) Propionitrile	4.853	54	54047	97.39	ppb		92
37) Bromochloromethane	5.133	130	86414	21.32	ppb		97
38) Methacrylonitrile	5.139	67	35533	19.64	ppb	#	81
39) Tetrahydrofuran	5.237	42	20646	17.58	ppb		89
40) Chloroform	5.316	83	228315	20.13	ppb		99
41) 1,1,1-Trichloroethane	5.584	97	194192	19.52	ppb		97

1st KR 03/24/17
2nd BA 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:02:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	351688	21.68	ppb		99
44) Cyclohexane	5.664	41	124726	17.21	ppb		93
46) Carbontetrachloride	5.846	121	47488	18.60	ppb		91
47) 1,1-Dichloropropene	5.859	75	177658	19.24	ppb		94
49) Benzene	6.163	78	516090	21.05	ppb		98
50) 1,2-Dichloroethane	6.200	62	171912	19.84	ppb		96
51) Iso-Butyl Alcohol	6.188	43	68354	446.99	ppb		81
52) n-Heptane	6.639	43	115293	13.96	ppb		95
53) 1-Butanol	7.108	56	103733	1169.14	ppb		98
54) Trichloroethene	7.072	130	136132	19.02	ppb		94
55) Methylcyclohexane	7.303	55	125683	14.88	ppb		93
56) 1,2-Diclpropane	7.346	63	135599	19.52	ppb		99
57) Dibromomethane	7.486	93	71540	20.33	ppb		89
58) 1,4-Dioxane	7.541	88	18106m	366.61	ppb		
59) Methyl Methacrylate	7.566	69	65517	19.68	ppb	#	86
60) Bromodichloromethane	7.706	83	170159	19.93	ppb		99
61) 2-Nitropropane	7.974	41	33227	49.18	ppb	#	80
62) 2-Chloroethylvinyl Ether	8.102	63	65020	19.50	ppb		96
63) cis-1,3-Dichloropropene	8.236	75	208678	20.85	ppb		97
64) 4-Methyl-2-pentanone	8.431	43	90887	20.81	ppb		99
66) Toluene	8.596	91	573092	19.96	ppb		94
67) trans-1,3-Dichloropropene	8.858	75	173160	21.08	ppb		96
68) Ethyl Methacrylate	8.992	69	132576	20.86	ppb		99
69) 1,1,2-Trichloroethane	9.041	97	106286	21.82	ppb		82
72) Tetrachloroethene	9.175	164	98548	17.95	ppb		93
73) 2-Hexanone	9.327	43	57349	20.12	ppb		81
74) 1,3-Dichloropropane	9.206	76	180285	21.05	ppb		91
75) Dibromochloromethane	9.431	129	115208	23.55	ppb		91
76) N-Butyl Acetate	9.474	43	149172	21.45	ppb		98
77) 1,2-Dibromoethane	9.523	107	102485	22.96	ppb		98
78) Chlorobenzene	10.010	112	364517	20.50	ppb		96
79) 3-CBTF	10.022	180	175956	17.49	ppb		94
80) 4-CBTF	10.077	180	158232	17.13	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.096	131	129207	22.10	ppb		97
82) Ethylbenzene	10.126	106	190397	19.26	ppb		93
83) (m+p)Xylene	10.236	106	475763	40.82	ppb		99
84) o-Xylene	10.589	106	228305	19.66	ppb		90
85) Styrene	10.602	104	405885	20.91	ppb		94
87) Bromoform	10.754	173	59602	25.46	ppb		96
88) 2-CBTF	10.833	180	170834	19.66	ppb		99
89) Isopropylbenzene	10.919	105	552725	21.40	ppb		96
90) Cyclohexanone	10.986	55	68326	150.39	ppb		90
91) trans-1,4-Dichloro-2-B...	11.217	53	25309	21.17	ppb		91
92) 1,1,2,2-Tetrachloroethane	11.175	83	122280	24.74	ppb		92
93) Bromobenzene	11.169	156	151437	21.60	ppb		96
94) 1,2,3-Trichloropropane	11.205	110	34011	21.50	ppb		94
95) n-Propylbenzene	11.272	91	622777	20.89	ppb		97
96) 2-Chlorotoluene	11.339	91	399358	22.25	ppb		92
97) 3-Chlorotoluene	11.388	91	424108	21.31	ppb		98
98) 4-Chlorotoluene	11.431	91	462899	22.12	ppb		99
99) 1,3,5-Trimethylbenzene	11.425	105	432703	19.33	ppb		97
100) tert-Butylbenzene	11.693	119	340153	18.56	ppb		99
101) 1,2,4-Trimethylbenzene	11.735	105	447561	19.48	ppb		96
102) 3,4-DCBTF	11.796	214	114706	17.03	ppb		93
103) sec-Butylbenzene	11.876	105	491066	18.23	ppb		98
104) p-Isopropyltoluene	11.998	119	435260	19.31	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:02:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.955	146	255044	19.03	ppb	95
106) 1,4-Dclbenz	12.034	146	278181	19.89	ppb	98
107) 2,4-DCBTF	12.083	214	99198	15.99	ppb	98
108) 2,5-DCBTF	12.120	214	112882	17.15	ppb	96
109) n-Butylbenzene	12.327	91	374772	18.23	ppb	98
110) 1,2-Dclbenz	12.333	146	255727	20.41	ppb	94
111) 1,2-Dibromo-3-chloropr...	12.949	157	21336	22.09	ppb	87
112) Trielution Dichlorotol...	13.071	125	626168	58.07	ppb	95
113) 1,3,5 Trichlorobenzene	13.125	180	173210	18.12	ppb	96
114) Coelution Dichlorotoluene	13.400	125	467894	40.16	ppb	98
115) 1,2,4-Tcbenzene	13.607	180	158155	19.02	ppb	96
116) Hexachlorobt	13.741	225	64467	17.02	ppb	95
117) Naphthalen	13.796	128	349608	22.77	ppb	95
118) 1,2,3-Tclbenzene	13.985	180	137159	20.03	ppb	95
119) 2,4,5-Trichlorotolene	14.570	159	119837	22.52	ppb	96
120) 2,3,6-Trichlorotoluene	14.650	159	111717	25.22	ppb	97

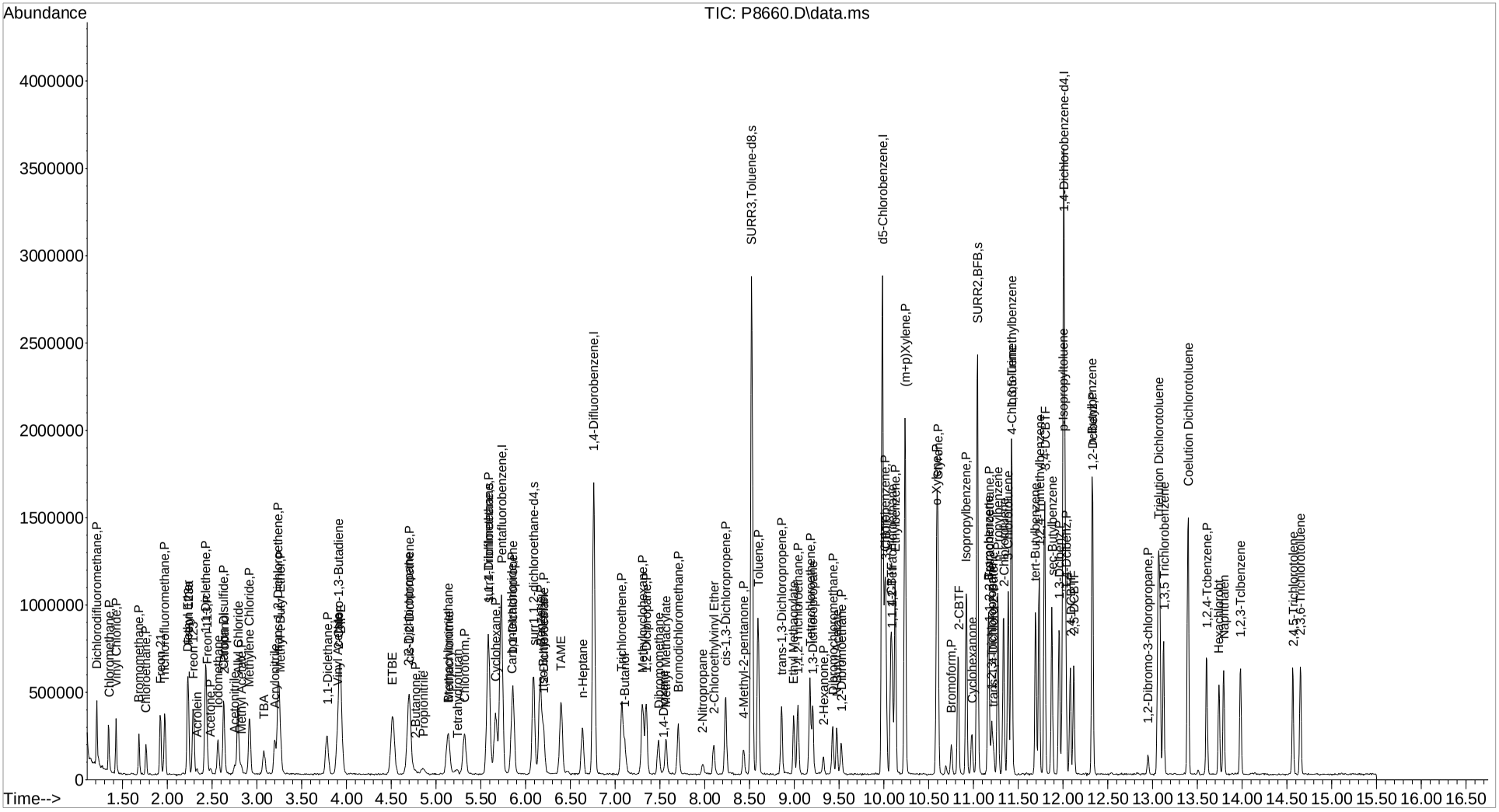
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8660.D
Acq On : 24 Mar 2017 12:41 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

1st 03/24/17 2nd 03/28/17

Quant Time: Mar 24 13:02:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

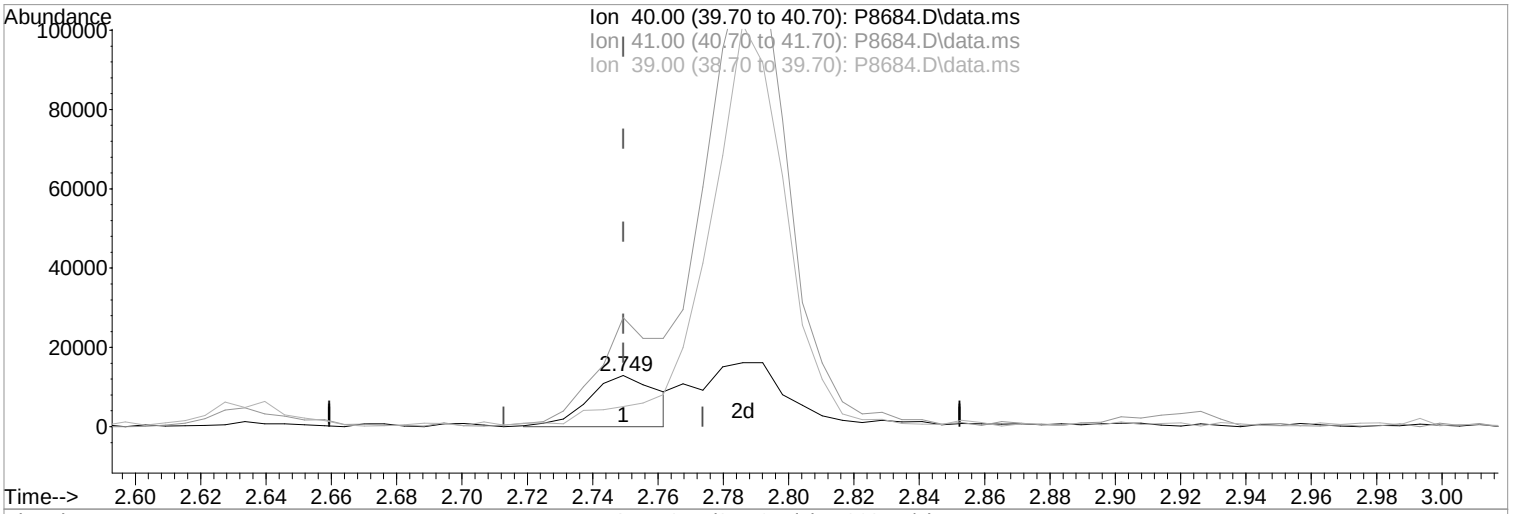


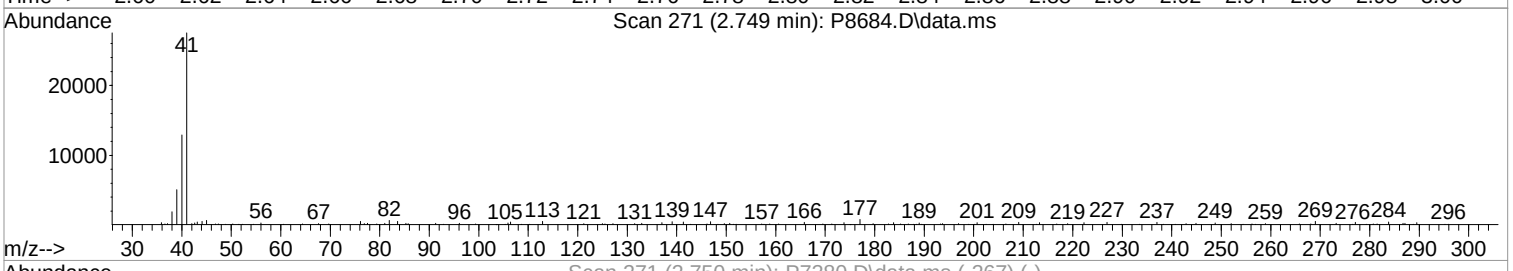
1st 03/27/17
2nd 03/28/17

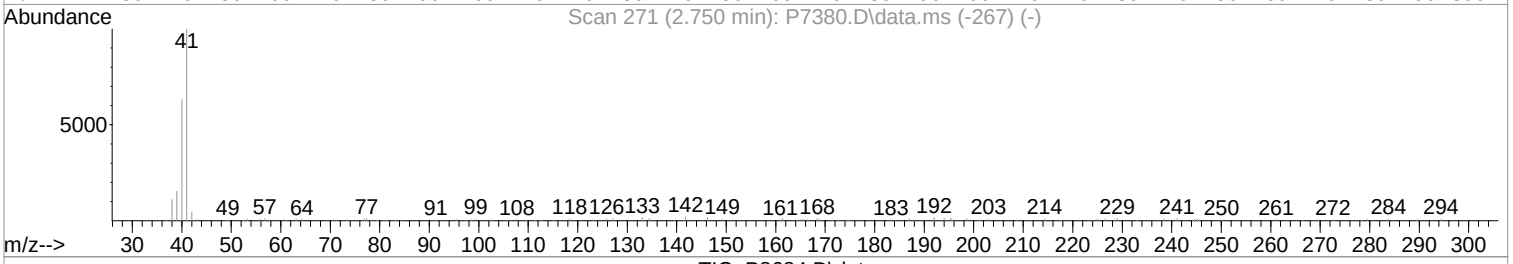
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(19) Acetonitrile

2.749min (-0.000) 109.25 ppb m

response 18917

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	213.09#
39.00	26.70	39.15
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

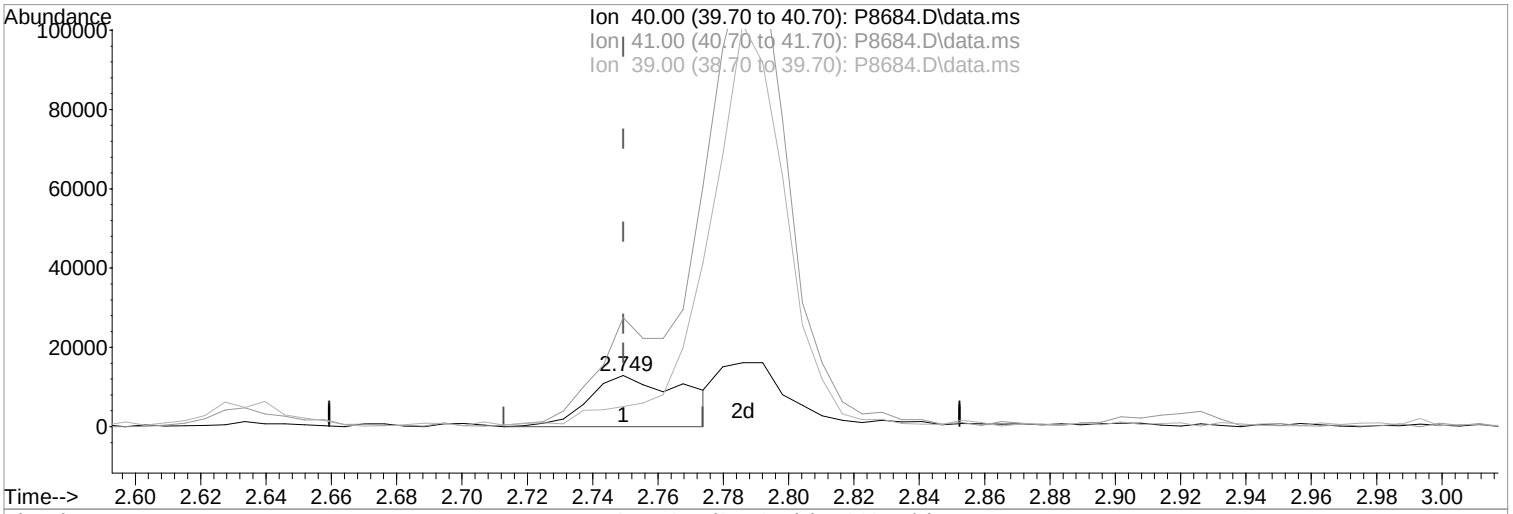
03/27/17

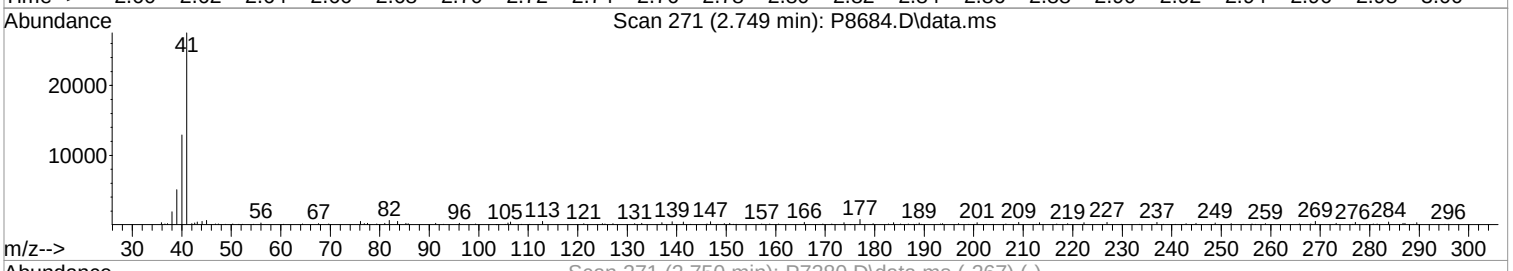
1st 03/27/17
2nd 03/28/17

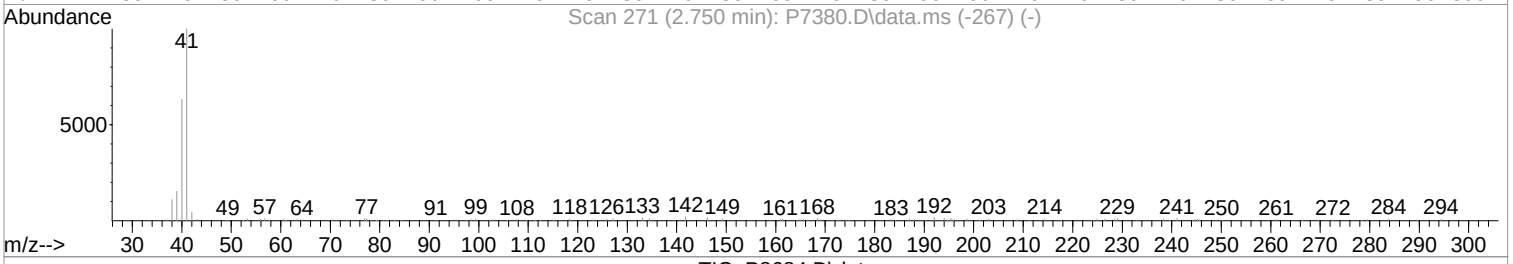
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(19) Acetonitrile

2.749min (-0.000) 152.09 ppb

response 26335

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	213.09#
39.00	26.70	39.15
0.00	0.00	0.00

Manual Integration:

Before

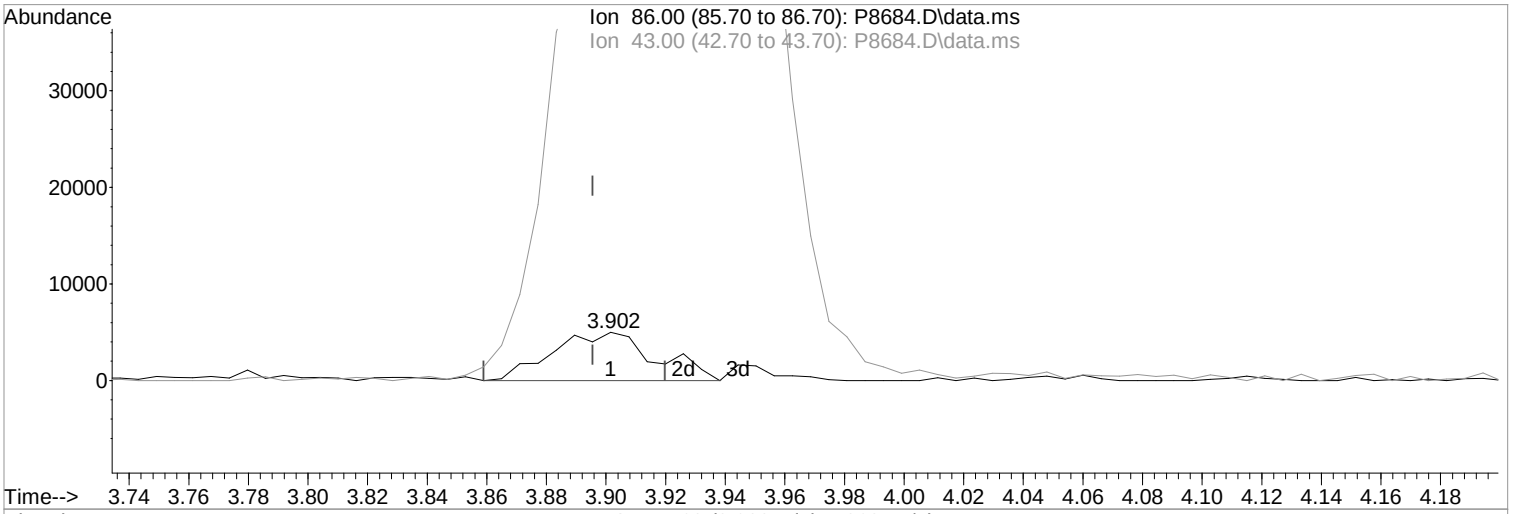
03/27/17

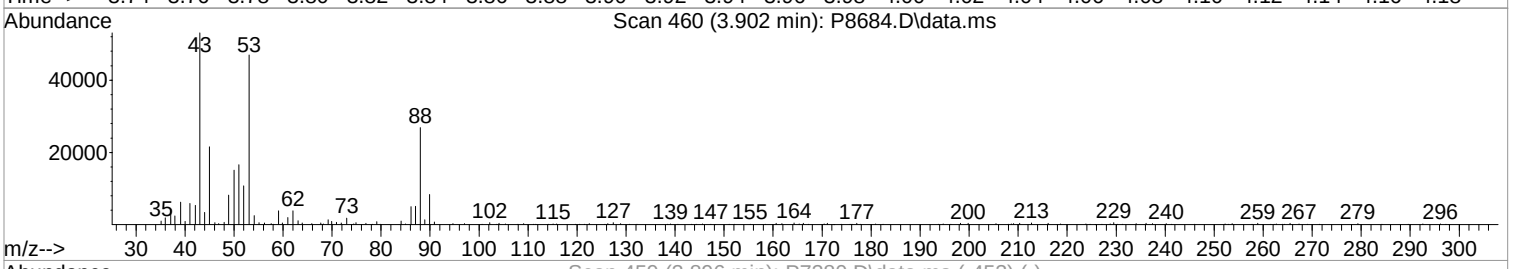
1st 03/27/17
2nd 03/28/17

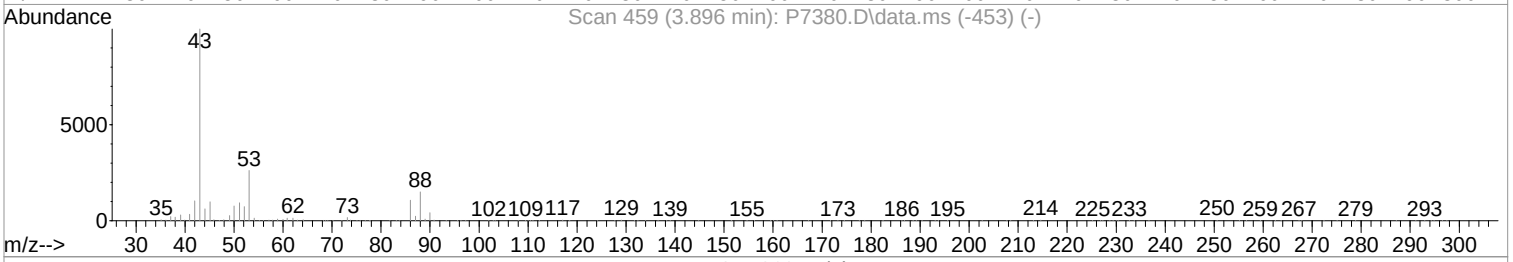
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(29) Vinyl Acetate

3.902min (+0.006) 10.84 ppb m

response 11925

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	1065.97#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

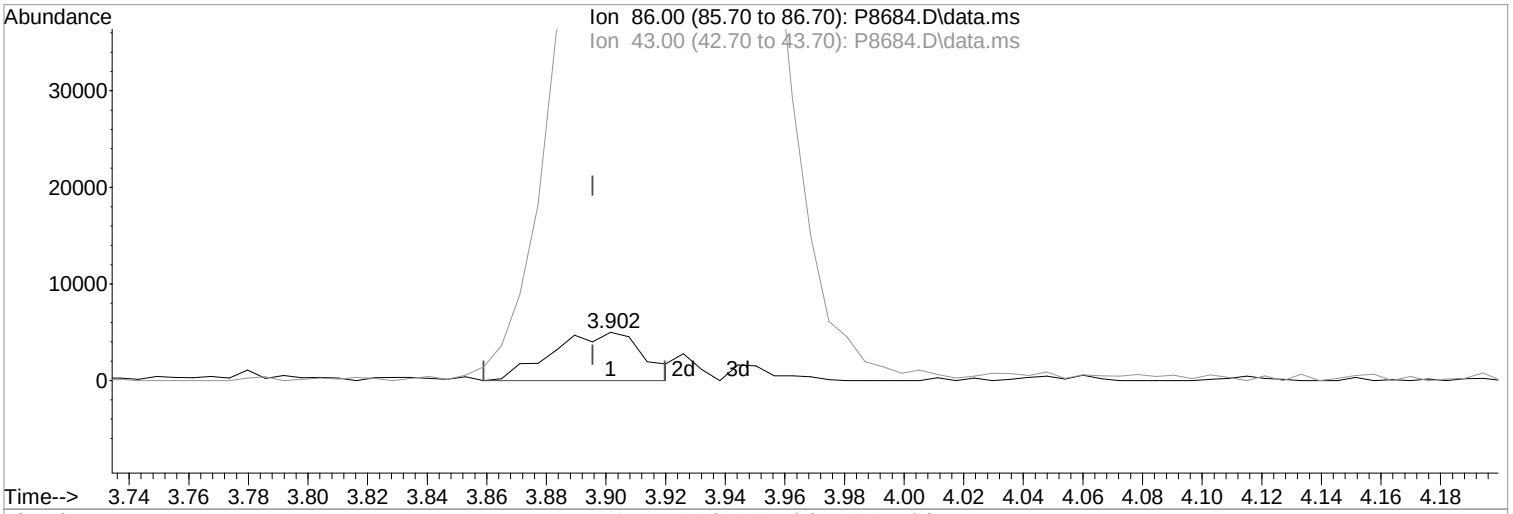
Poor integration.

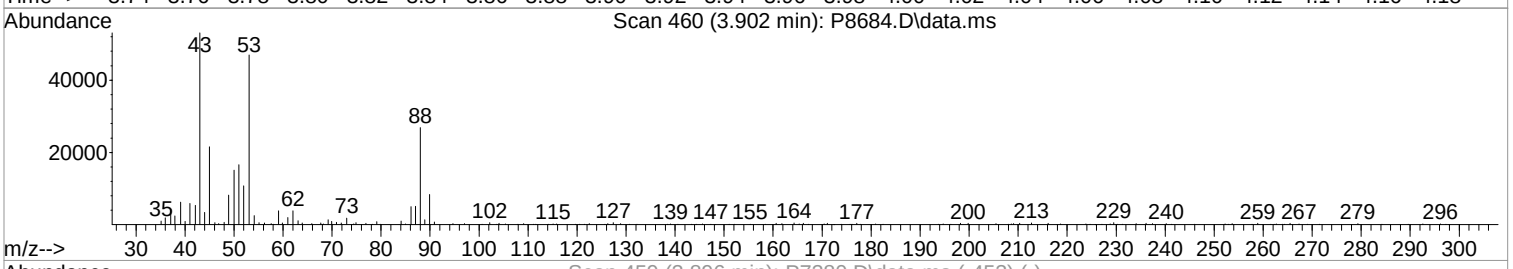
03/27/17

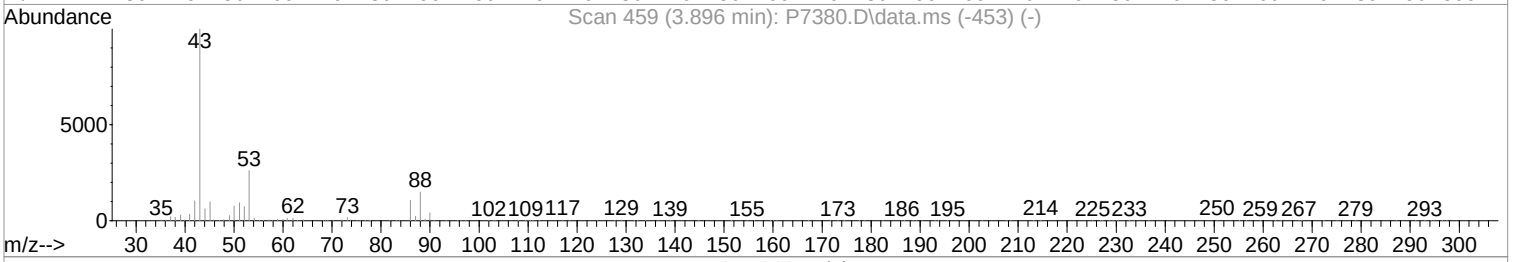
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(29) Vinyl Acetate

3.902min (+0.006) 9.54 ppb

response 10491

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	1065.97#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

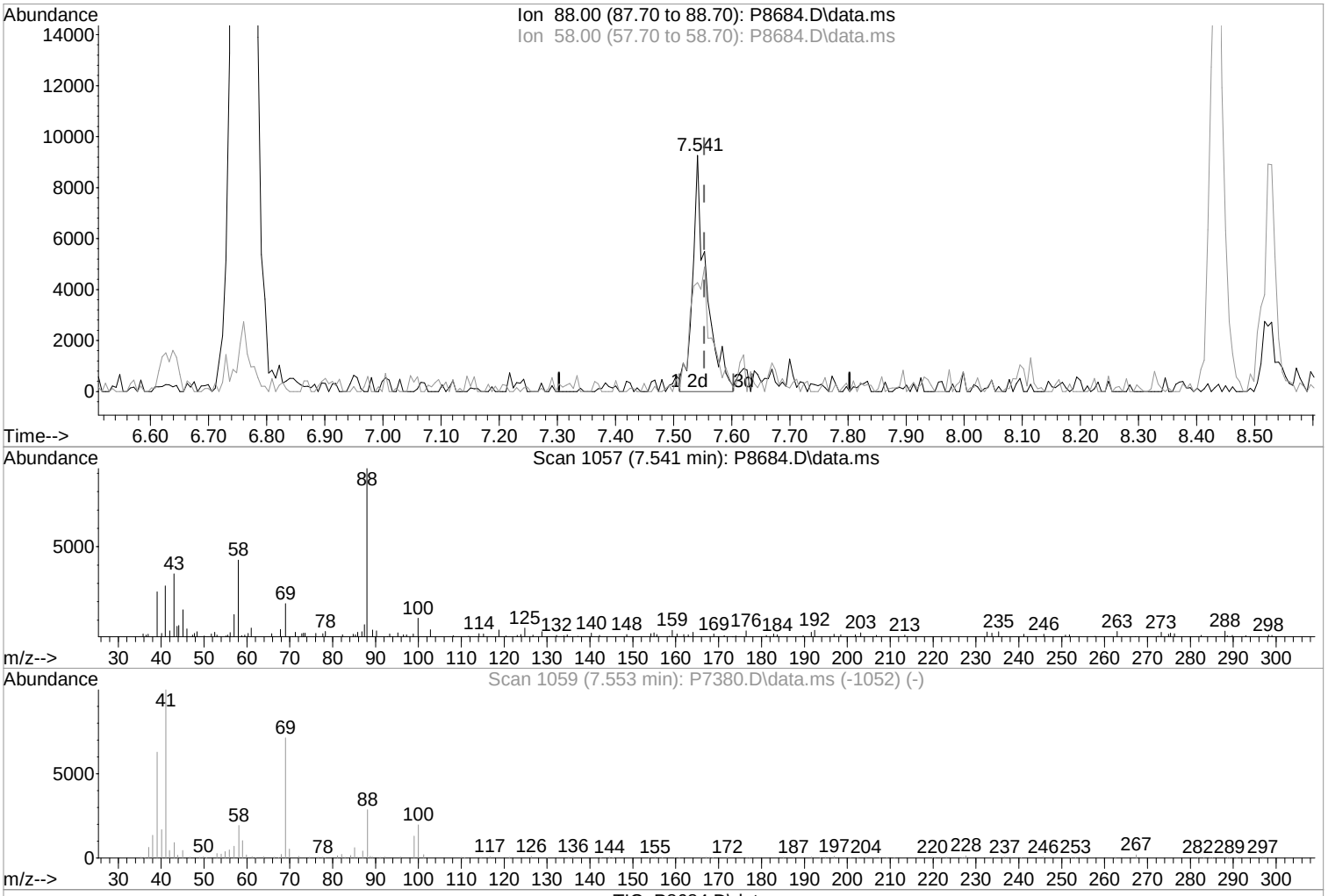
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8684.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.012) 325.72 ppb m

response 15213

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	46.11#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

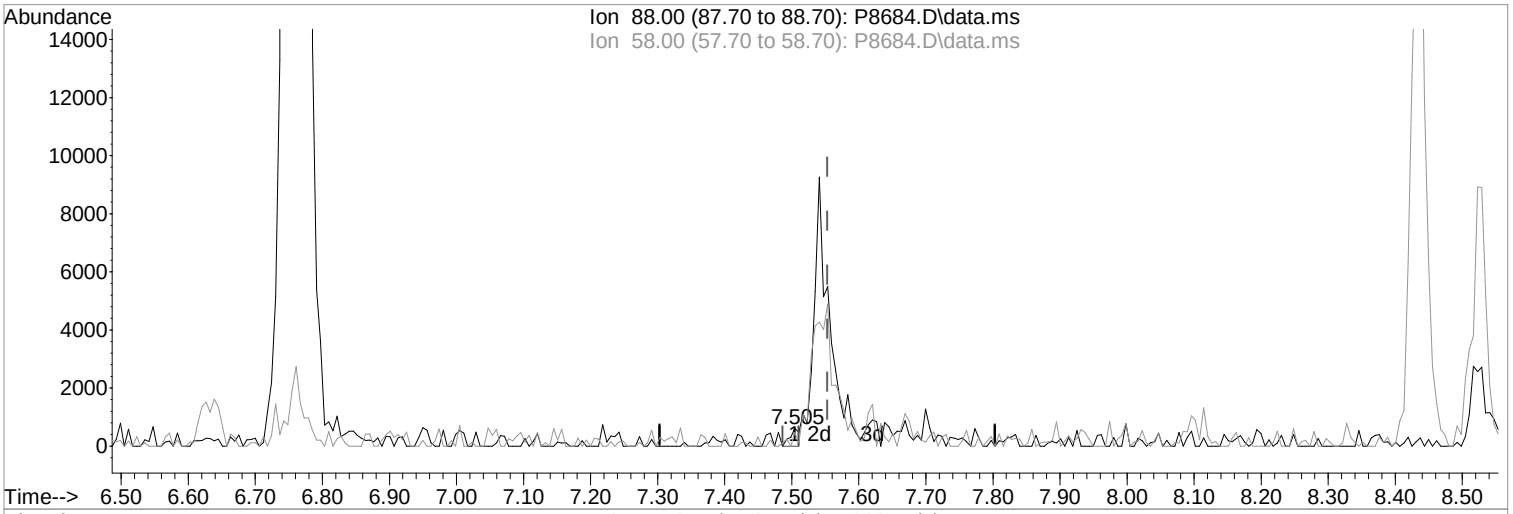
Peak not found.

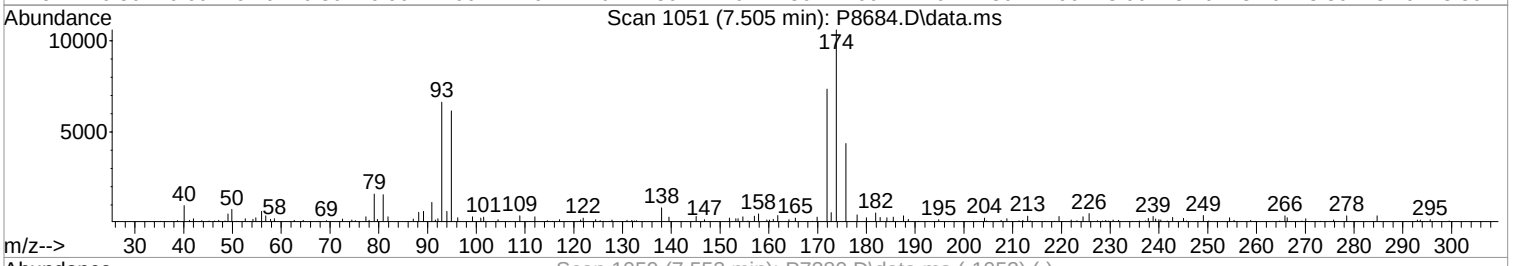
03/27/17

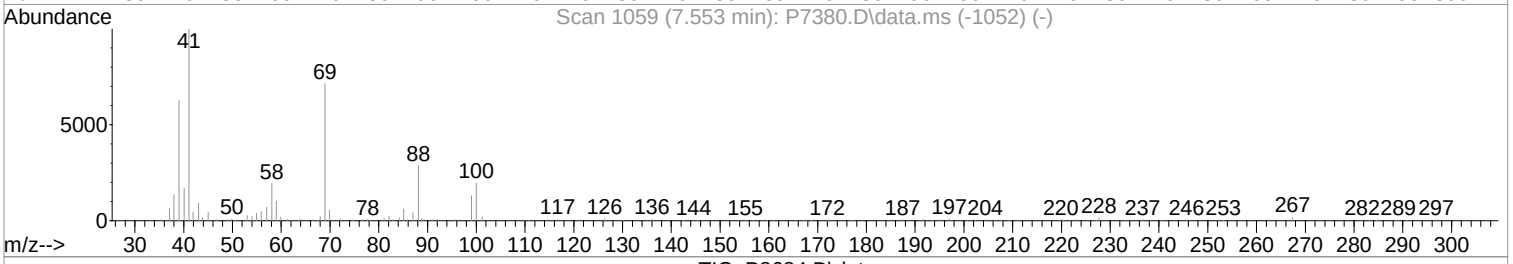
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(58) 1,4-Dioxane

7.505min (-0.048) -1.00 ppb

response 592

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	77.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.730	168	821817	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1299667	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1218486	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	647894	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	400550	57.11	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 114.22%				
48) surr1,1,2-dichloroetha...	6.084	65	450625	57.87	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 115.74%				
65) SURR3,Toluene-d8	8.523	98	1626173	56.08	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.16%				
70) SURR2,BFB	11.047	95	593591	52.83	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	193834	19.38	ppb		95
3) Chloromethane	1.341	50	176308	19.68	ppb		98
4) Vinyl Chloride	1.426	62	175297	22.09	ppb		100
5) Bromomethane	1.683	94	70655	17.62	ppb		98
6) Chloroethane	1.762	64	86176	20.50	ppb		94
7) Freon 21	1.920	67	222915	22.19	ppb		98
8) Trichlorofluoromethane	1.969	101	194191	21.85	ppb		94
9) Diethyl Ether	2.225	59	81795	21.66	ppb		91
10) Freon 123a	2.231	67	151703	24.33	ppb		98
11) Freon 123	2.286	83	161842	22.52	ppb		95
12) Acrolein	2.335	56	12905	20.75	ppb		87
13) 1,1-Diclethene	2.426	96	121288	20.83	ppb		96
14) Freon 113	2.432	101	122184	19.43	ppb		88
15) Acetone	2.481	43	29471	24.41	ppb		96
16) 2-Propanol	2.640	45	93223	457.34	ppb		99
17) Iodomethane	2.566	142	188138	22.02	ppb		87
18) Carbon Disulfide	2.627	76	379835	21.40	ppb		98
19) Acetonitrile	2.749	40	18917m	109.25	ppb		
20) Allyl Chloride	2.786	76	64933	18.70	ppb	#	90
21) Methyl Acetate	2.816	43	59033	20.52	ppb		85
22) Methylene Chloride	2.914	84	136823	21.45	ppb	#	86
23) TBA	3.079	59	162264	481.06	ppb		98
24) Acrylonitrile	3.200	53	151382	107.50	ppb		91
25) Methyl-t-Butyl Ether	3.255	73	316274	20.60	ppb		97
26) trans-1,2-Dichloroethene	3.237	96	133103	19.72	ppb		93
28) 1,1-Diclethane	3.786	63	240040	21.24	ppb		98
29) Vinyl Acetate	3.902	86	11925m	10.84	ppb		
30) DIPE	3.938	45	455532	21.70	ppb		95
31) 2-Chloro-1,3-Butadiene	3.914	53	204092	21.08	ppb		98
32) ETBE	4.517	59	400375	22.50	ppb		94
33) 2,2-Dichloropropane	4.694	77	153248	17.21	ppb		93
34) cis-1,2-Dichloroethene	4.706	96	152946	21.28	ppb		99
35) 2-Butanone	4.773	43	37506	21.13	ppb		92
36) Propionitrile	4.853	54	50998	94.87	ppb		97
37) Bromochloromethane	5.133	130	88649	22.58	ppb		87
38) Methacrylonitrile	5.151	67	36308	20.72	ppb		90
39) Tetrahydrofuran	5.224	42	24871	21.87	ppb		99
40) Chloroform	5.322	83	241794	22.00	ppb		98
41) 1,1,1-Trichloroethane	5.578	97	205202	21.30	ppb		83

1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	350408	22.30	ppb		100
44) Cyclohexane	5.663	41	127425	18.75	ppb		94
46) Carbontetrachloride	5.846	121	48254	20.16	ppb		81
47) 1,1-Dichloropropene	5.859	75	182004	21.02	ppb		96
49) Benzene	6.163	78	530519	23.07	ppb		96
50) 1,2-Dichloroethane	6.206	62	172246	21.20	ppb		96
51) Iso-Butyl Alcohol	6.188	43	73497	512.50	ppb	#	65
52) n-Heptane	6.639	43	103655	13.38	ppb		93
53) 1-Butanol	7.108	56	107363	1290.31	ppb		97
54) Trichloroethene	7.072	130	157110	23.41	ppb		94
55) Methylcyclohexane	7.303	55	121476	15.34	ppb		93
56) 1,2-Diclpropane	7.346	63	138408	21.25	ppb		90
57) Dibromomethane	7.486	93	68689	20.81	ppb		96
58) 1,4-Dioxane	7.541	88	15213m	325.72	ppb		
59) Methyl Methacrylate	7.566	69	68869	22.06	ppb		94
60) Bromodichloromethane	7.706	83	170335	21.28	ppb		98
61) 2-Nitropropane	7.974	41	33372	52.67	ppb		93
62) 2-Chloroethylvinyl Ether	8.102	63	61347	19.61	ppb		92
63) cis-1,3-Dichloropropene	8.236	75	203514	21.68	ppb		98
64) 4-Methyl-2-pentanone	8.431	43	84320	20.58	ppb		92
66) Toluene	8.596	91	604145	22.44	ppb		99
67) trans-1,3-Dichloropropene	8.858	75	165999	21.55	ppb		96
68) Ethyl Methacrylate	8.992	69	137703	23.11	ppb		93
69) 1,1,2-Trichloroethane	9.041	97	102806	22.51	ppb		96
72) Tetrachloroethene	9.175	164	109239	20.67	ppb		87
73) 2-Hexanone	9.321	43	60095	21.90	ppb		78
74) 1,3-Dichloropropane	9.205	76	181716	22.04	ppb		99
75) Dibromochloromethane	9.431	129	119096	25.28	ppb		98
76) N-Butyl Acetate	9.474	43	152742	22.81	ppb		97
77) 1,2-Dibromoethane	9.522	107	104672	24.36	ppb		93
78) Chlorobenzene	10.010	112	376579	21.99	ppb		97
79) 3-CBTF	10.028	180	177438	18.32	ppb		97
80) 4-CBTF	10.077	180	159135	17.90	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.095	131	130612	23.20	ppb		94
82) Ethylbenzene	10.126	106	212099	22.29	ppb		95
83) (m+p)Xylene	10.242	106	493236	43.96	ppb		94
84) o-Xylene	10.589	106	242565	21.70	ppb		95
85) Styrene	10.601	104	432227	23.13	ppb		93
87) Bromoform	10.754	173	65830	27.34	ppb		91
88) 2-CBTF	10.833	180	182345	20.46	ppb		93
89) Isopropylbenzene	10.925	105	576013	21.75	ppb		95
90) Cyclohexanone	10.986	55	105472	226.41	ppb		98
91) trans-1,4-Dichloro-2-B...	11.223	53	22559	18.41	ppb		98
92) 1,1,2,2-Tetrachloroethane	11.175	83	111467	22.00	ppb		95
93) Bromobenzene	11.168	156	149961	20.86	ppb		89
94) 1,2,3-Trichloropropane	11.205	110	33573	20.69	ppb	#	86
95) n-Propylbenzene	11.272	91	682727	22.33	ppb		99
96) 2-Chlorotoluene	11.339	91	411088	22.34	ppb		98
97) 3-Chlorotoluene	11.388	91	460146	22.55	ppb		94
98) 4-Chlorotoluene	11.431	91	466233	21.73	ppb		95
99) 1,3,5-Trimethylbenzene	11.425	105	477885	20.82	ppb		98
100) tert-Butylbenzene	11.699	119	378171	20.12	ppb		95
101) 1,2,4-Trimethylbenzene	11.735	105	490101	20.80	ppb		99
102) 3,4-DCBTF	11.796	214	106046	15.36	ppb		95
103) sec-Butylbenzene	11.876	105	542491	19.65	ppb		99
104) p-Isopropyltoluene	11.998	119	439683	19.02	ppb		94

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	287980	20.96	ppb	99
106) 1,4-Dclbenz	12.034	146	293568	20.47	ppb	98
107) 2,4-DCBTF	12.083	214	92850	14.60	ppb	92
108) 2,5-DCBTF	12.126	214	106234	15.74	ppb	94
109) n-Butylbenzene	12.327	91	396046	18.79	ppb	97
110) 1,2-Dclbenz	12.333	146	267651	20.83	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.949	157	22005	22.22	ppb	98
112) Trielution Dichlorotol...	13.077	125	629160	56.91	ppb	98
113) 1,3,5 Trichlorobenzene	13.125	180	163773	16.71	ppb	99
114) Coelution Dichlorotoluene	13.400	125	466788	39.08	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	156465	18.35	ppb	93
116) Hexachlorobt	13.747	225	62715	16.15	ppb	96
117) Naphthalen	13.796	128	365069	23.19	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	142796	20.34	ppb	99
119) 2,4,5-Trichlorotolene	14.564	159	117510	21.54	ppb	94
120) 2,3,6-Trichlorotoluene	14.649	159	112454	24.76	ppb	93

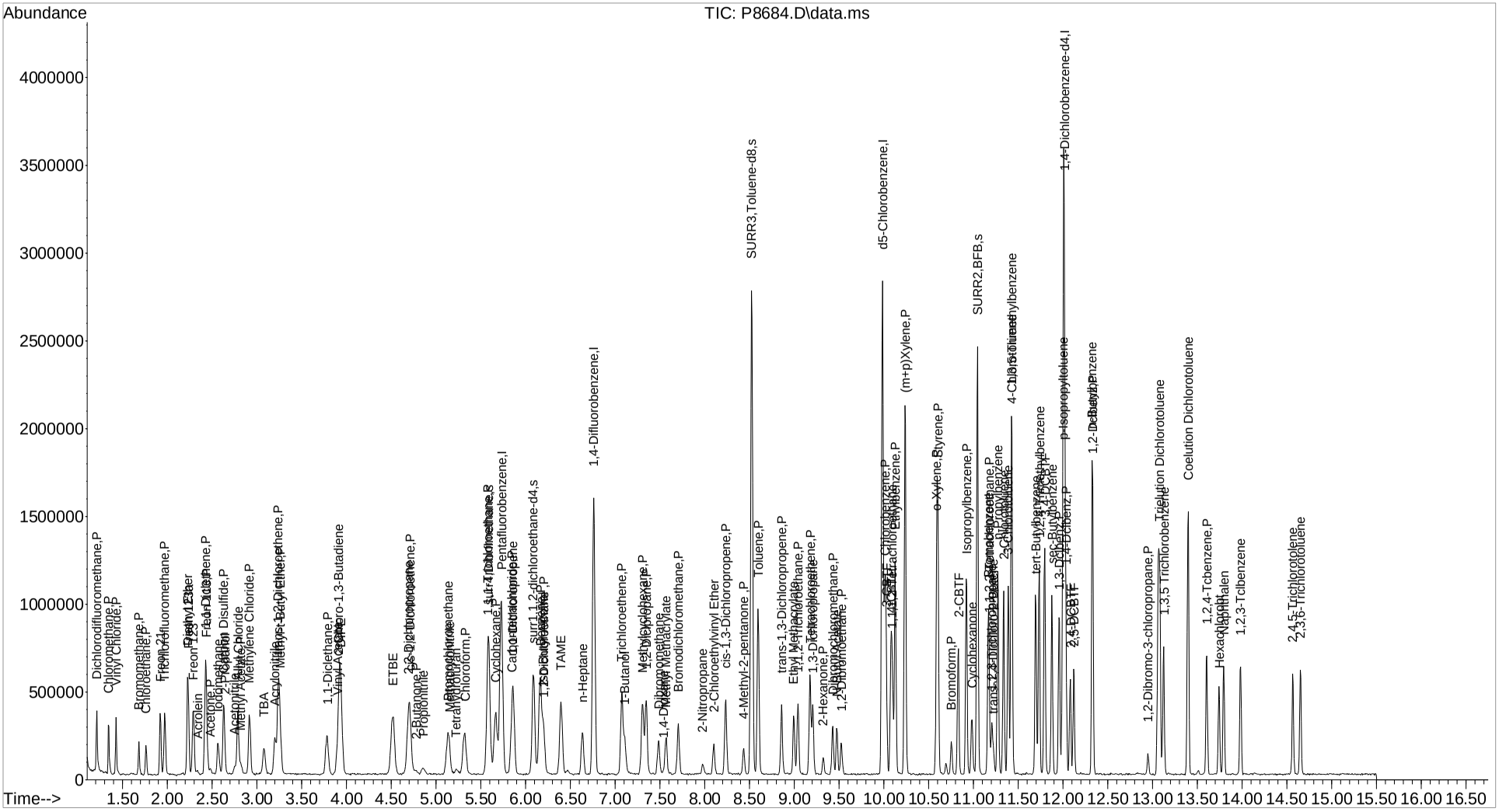
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

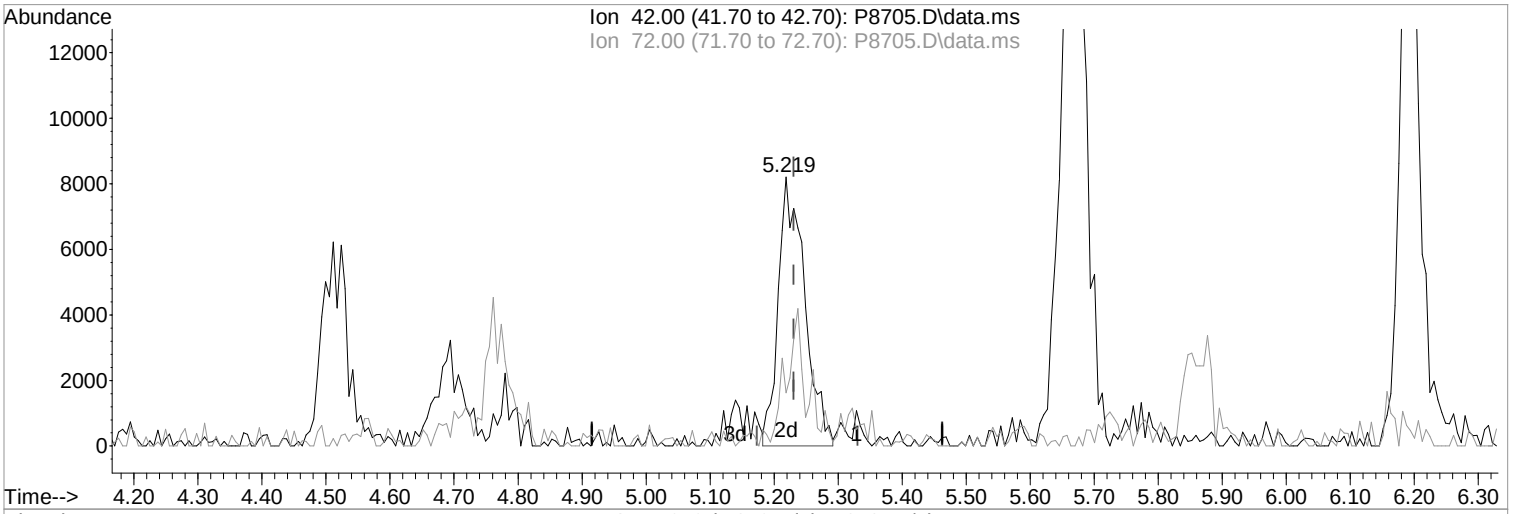
1st 03/27/17
2nd 03/28/17

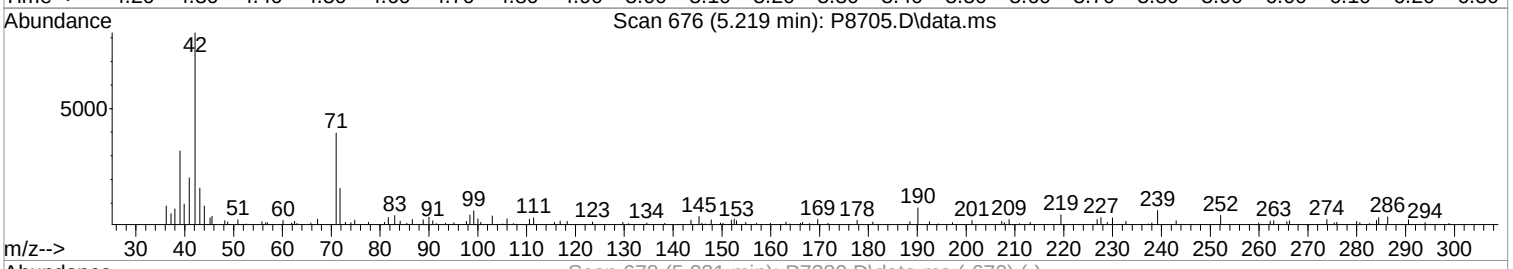


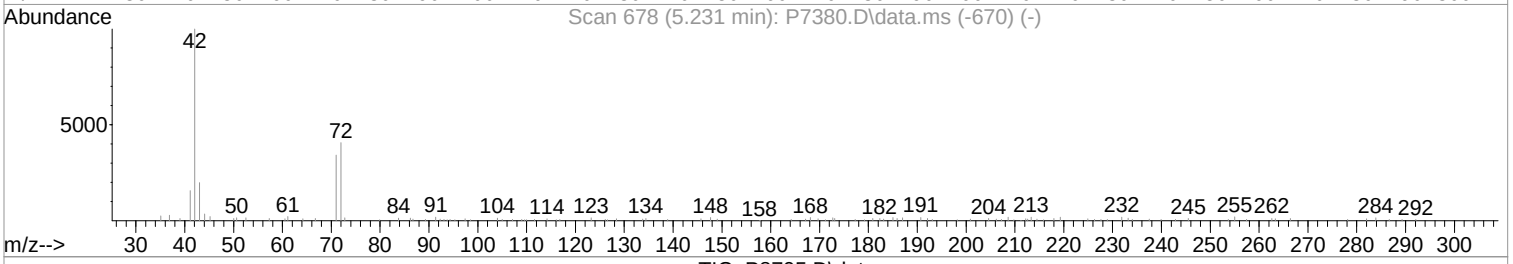
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 11:40:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8705.D\data.ms

(39) Tetrahydrofuran

5.219min (-0.012) 19.84 ppb m

response 23437

Ion	Exp%	Act%
42.00	100	100
72.00	39.90	19.80#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

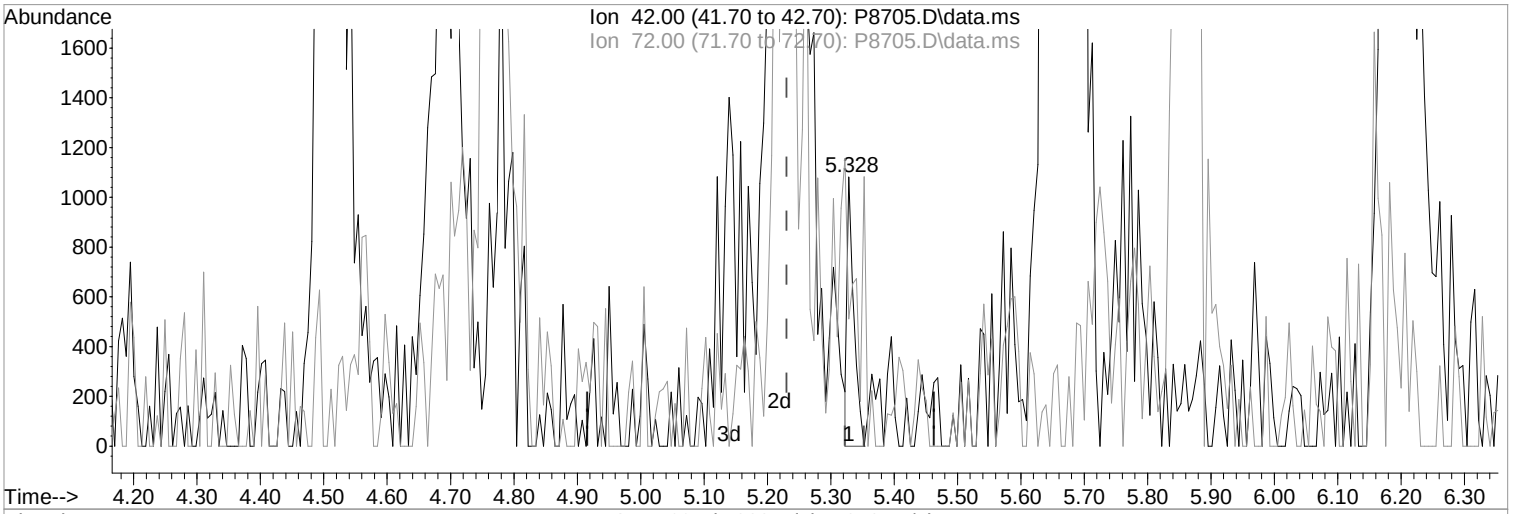
03/27/17

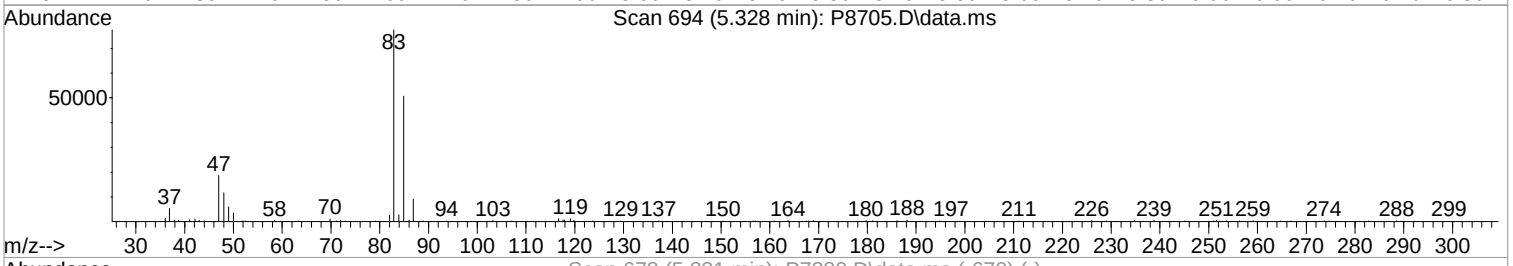
1st 03/27/17
2nd 03/28/17

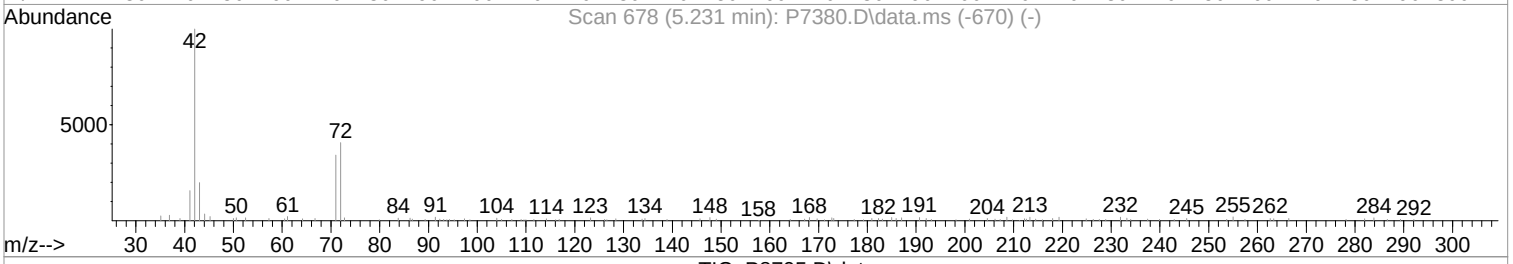
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 11:40:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8705.D\data.ms

(39) Tetrahydrofuran

5.328min (+0.098) 0.67 ppb

response 794

Ion	Exp%	Act%
42.00	100	100
72.00	39.90	47.36
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

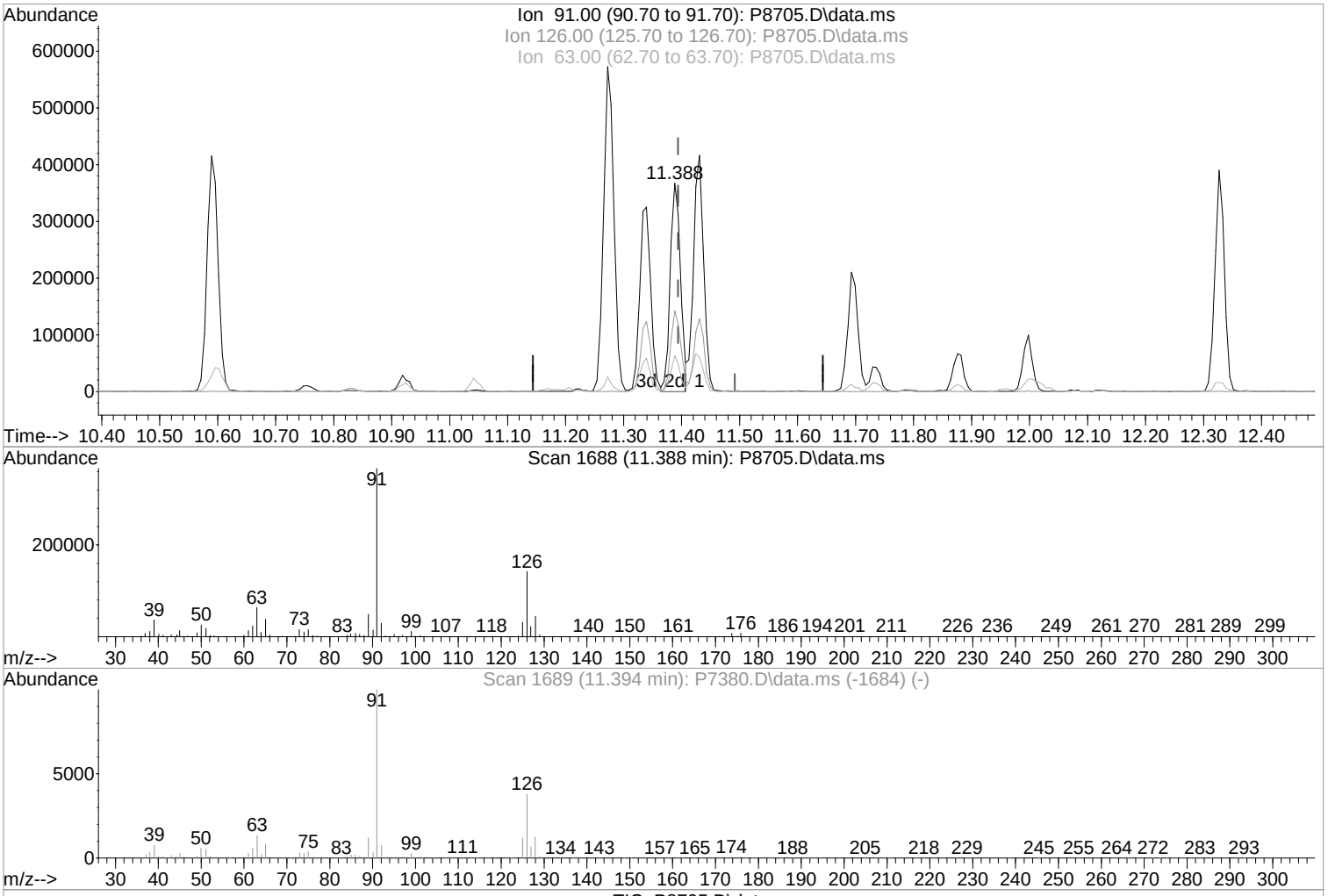
Before

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 11:40:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



(97) 3-Chlorotoluene

11.388min (-0.006) 21.30 ppb m

response 454143

Ion	Exp%	Act%
91.00	100	100
126.00	37.70	38.70
63.00	13.50	17.23#
0.00	0.00	0.00

Manual Integration:

After

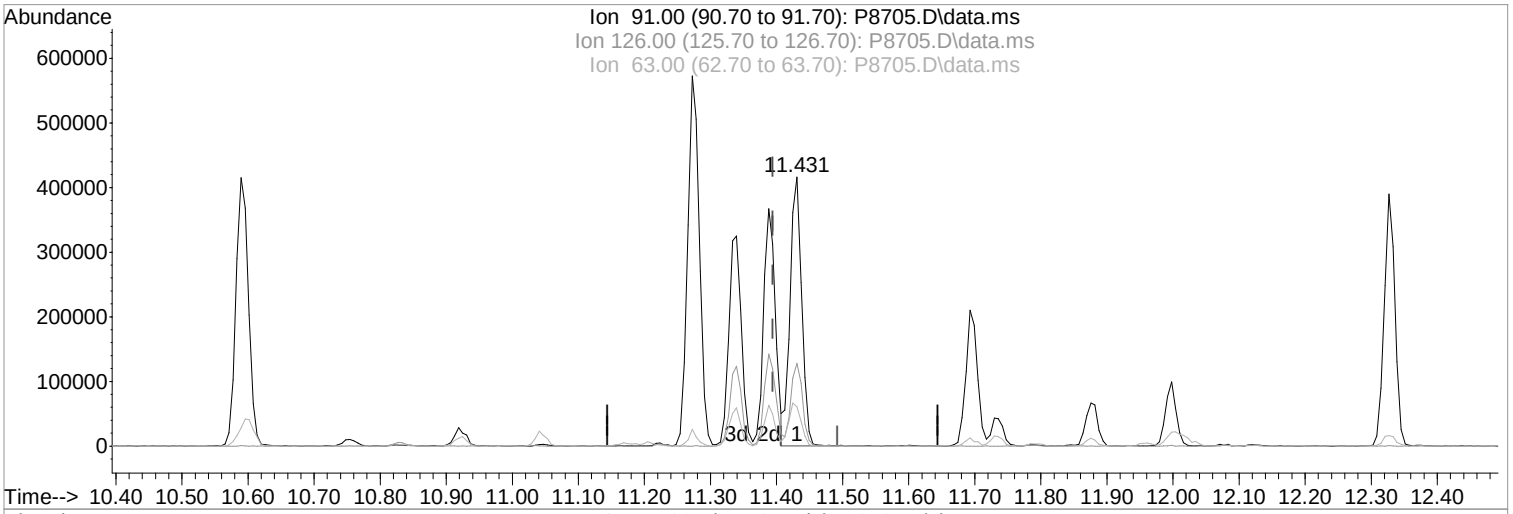
Wrong peak selected.

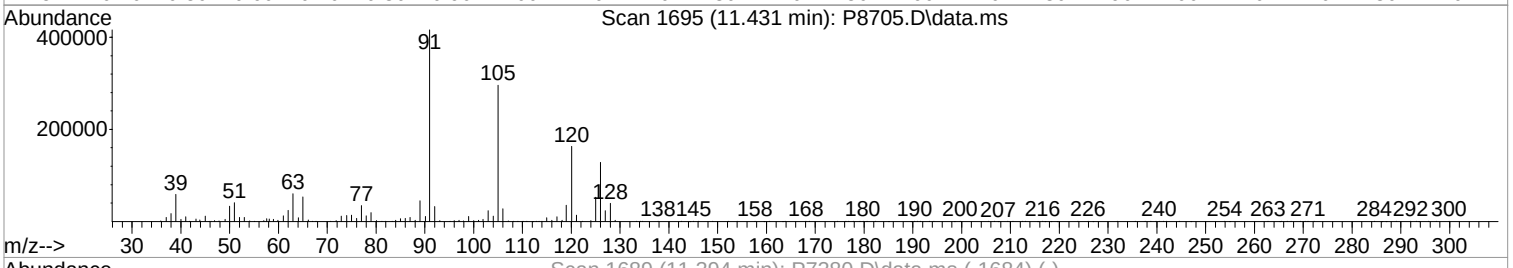
03/27/17

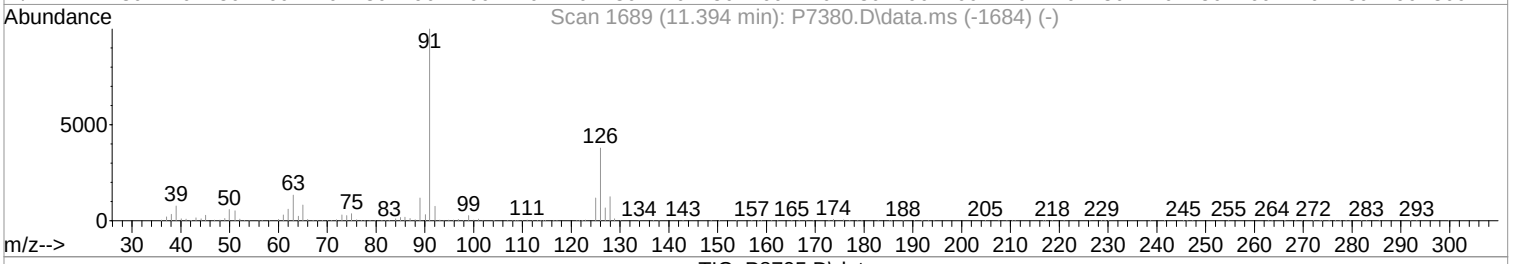
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 11:40:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8705.D\data.ms

(97) 3-Chlorotoluene

11.431min (+0.037) 23.74 ppb

response 506130

Ion	Exp%	Act%
91.00	100	100
126.00	37.70	30.76
63.00	13.50	14.54
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 11:42:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	853728	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1376536	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1282827	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	677082	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	406774	54.76	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.52%				
48) surr1,1,2-dichloroetha...	6.084	65	461264	55.93	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.86%				
65) SURR3,Toluene-d8	8.523	98	1720855	56.04	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.08%				
70) SURR2,BFB	11.047	95	619660	52.07	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	193592	18.64	ppb		97
3) Chloromethane	1.341	50	175058	18.81	ppb		99
4) Vinyl Chloride	1.427	62	183943	22.31	ppb		99
5) Bromomethane	1.683	94	87508	21.00	ppb	#	79
6) Chloroethane	1.762	64	90905	20.81	ppb		81
7) Freon 21	1.920	67	238641	22.86	ppb		96
8) Trichlorofluoromethane	1.969	101	206443	22.36	ppb		94
9) Diethyl Ether	2.225	59	86370	22.02	ppb		91
10) Freon 123a	2.231	67	147374	22.75	ppb		94
11) Freon 123	2.286	83	171072	22.91	ppb		98
12) Acrolein	2.335	56	20984	32.48	ppb		85
13) 1,1-Diclethene	2.426	96	127062	21.01	ppb		92
14) Freon 113	2.433	101	123640	18.92	ppb		89
15) Acetone	2.475	43	28581	22.79	ppb		97
16) 2-Propanol	2.634	45	92673	437.65	ppb		95
17) Iodomethane	2.567	142	183429	20.67	ppb		93
18) Carbon Disulfide	2.628	76	410677	22.27	ppb		99
19) Acetonitrile	2.756	40	22903	127.33	ppb	#	83
20) Allyl Chloride	2.786	76	77289	21.43	ppb	#	83
21) Methyl Acetate	2.817	43	61901	20.71	ppb		97
22) Methylene Chloride	2.914	84	143656	21.67	ppb		93
23) TBA	3.079	59	152354	434.80	ppb		91
24) Acrylonitrile	3.201	53	148185	101.29	ppb		94
25) Methyl-t-Butyl Ether	3.256	73	325768	20.43	ppb		98
26) trans-1,2-Dichloroethene	3.237	96	137665	19.64	ppb		89
28) 1,1-Diclethane	3.786	63	246001	20.96	ppb		90
29) Vinyl Acetate	3.896	86	26508	23.19	ppb	#	74
30) DIPE	3.932	45	472530	21.67	ppb		96
31) 2-Chloro-1,3-Butadiene	3.914	53	215468	21.43	ppb		90
32) ETBE	4.518	59	411795	22.28	ppb		97
33) 2,2-Dichloropropane	4.694	77	202195	21.86	ppb		91
34) cis-1,2-Dichloroethene	4.707	96	145130	19.44	ppb		92
35) 2-Butanone	4.767	43	34289	18.59	ppb		92
36) Propionitrile	4.847	54	48276	86.45	ppb		94
37) Bromochloromethane	5.133	130	85588	20.98	ppb		90
38) Methacrylonitrile	5.139	67	32008	17.59	ppb		93
39) Tetrahydrofuran	5.219	42	23437m	19.84	ppb		
40) Chloroform	5.316	83	243475	21.33	ppb		94
41) 1,1,1-Trichloroethane	5.578	97	204647	20.45	ppb		90

1st KR 03/27/17
2nd BA 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 11:42:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	356857	21.86	ppb		95
44) Cyclohexane	5.664	41	134670	18.71	ppb		93
46) Carbontetrachloride	5.853	121	55423	21.86	ppb		92
47) 1,1-Dichloropropene	5.859	75	184110	20.08	ppb		99
49) Benzene	6.164	78	546474	22.44	ppb		96
50) 1,2-Dichloroethane	6.206	62	178303	20.72	ppb		89
51) Iso-Butyl Alcohol	6.194	43	65943	434.14	ppb		82
52) n-Heptane	6.639	43	123013	15.00	ppb		94
53) 1-Butanol	7.108	56	96769	1098.05	ppb		93
54) Trichloroethene	7.078	130	148864	20.94	ppb		93
55) Methylcyclohexane	7.304	55	135066	16.10	ppb	#	86
56) 1,2-Diclpropane	7.346	63	142240	20.62	ppb		94
57) Dibromomethane	7.486	93	70433	20.15	ppb		93
58) 1,4-Dioxane	7.535	88	17841	363.48	ppb	#	69
59) Methyl Methacrylate	7.572	69	70299	21.26	ppb	#	81
60) Bromodichloromethane	7.706	83	174696	20.61	ppb		94
61) 2-Nitropropane	7.980	41	32684	48.70	ppb	#	79
62) 2-Chloroethylvinyl Ether	8.102	63	67817	20.47	ppb		92
63) cis-1,3-Dichloropropene	8.236	75	216895	21.82	ppb		94
64) 4-Methyl-2-pentanone	8.438	43	90452	20.85	ppb		84
66) Toluene	8.596	91	634298	22.25	ppb		98
67) trans-1,3-Dichloropropene	8.858	75	172055	21.09	ppb		93
68) Ethyl Methacrylate	8.992	69	140888	22.32	ppb		87
69) 1,1,2-Trichloroethane	9.041	97	111373	23.02	ppb		94
72) Tetrachloroethene	9.175	164	103906	18.67	ppb		89
73) 2-Hexanone	9.321	43	57107	19.77	ppb		86
74) 1,3-Dichloropropane	9.206	76	188959	21.77	ppb		97
75) Dibromochloromethane	9.431	129	119879	24.17	ppb		89
76) N-Butyl Acetate	9.474	43	155461	22.05	ppb		96
77) 1,2-Dibromoethane	9.523	107	104781	23.16	ppb		91
78) Chlorobenzene	10.010	112	391742	21.73	ppb		99
79) 3-CBTF	10.029	180	192758	18.90	ppb		96
80) 4-CBTF	10.077	180	177005	18.91	ppb		94
81) 1,1,1,2-Tetrachloroethane	10.096	131	139587	23.55	ppb		96
82) Ethylbenzene	10.126	106	214180	21.38	ppb		98
83) (m+p)Xylene	10.242	106	507320	42.95	ppb		97
84) o-Xylene	10.590	106	250471	21.28	ppb		95
85) Styrene	10.608	104	431535	21.93	ppb		97
87) Bromoform	10.754	173	64306	25.62	ppb		96
88) 2-CBTF	10.833	180	186712	20.05	ppb		94
89) Isopropylbenzene	10.925	105	587200	21.22	ppb		98
90) Cyclohexanone	10.986	55	84134	172.82	ppb		99
91) trans-1,4-Dichloro-2-B...	11.224	53	22324	17.43	ppb		94
92) 1,1,2,2-Tetrachloroethane	11.181	83	121447	22.93	ppb		92
93) Bromobenzene	11.169	156	157333	20.94	ppb		95
94) 1,2,3-Trichloropropane	11.205	110	35135	20.72	ppb	#	86
95) n-Propylbenzene	11.272	91	708151	22.17	ppb		98
96) 2-Chlorotoluene	11.339	91	423124	22.00	ppb		97
97) 3-Chlorotoluene	11.388	91	454143m	21.30	ppb		
98) 4-Chlorotoluene	11.431	91	501965	22.39	ppb		97
99) 1,3,5-Trimethylbenzene	11.425	105	482040	20.09	ppb		94
100) tert-Butylbenzene	11.693	119	381334	19.42	ppb		96
101) 1,2,4-Trimethylbenzene	11.736	105	500497	20.33	ppb		100
102) 3,4-DCBTF	11.797	214	117782	16.32	ppb		94
103) sec-Butylbenzene	11.876	105	568967	19.72	ppb		98
104) p-Isopropyltoluene	11.998	119	462651	19.15	ppb		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 11:42:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.961	146	290310	20.22	ppb		98
106) 1,4-Dclbenz	12.028	146	300734	20.06	ppb		97
107) 2,4-DCBTF	12.083	214	103988	15.64	ppb		93
108) 2,5-DCBTF	12.126	214	121670	17.25	ppb		93
109) n-Butylbenzene	12.327	91	441686	20.05	ppb		97
110) 1,2-Dclbenz	12.333	146	279174	20.79	ppb		95
111) 1,2-Dibromo-3-chloropr...	12.949	157	23876	23.07	ppb	#	81
112) Trielution Dichlorotol...	13.065	125	671488	58.12	ppb		92
113) 1,3,5 Trichlorobenzene	13.126	180	186160	18.18	ppb		98
114) Coelution Dichlorotoluene	13.400	125	505143	40.47	ppb		99
115) 1,2,4-Tcbenzene	13.607	180	174334	19.56	ppb		99
116) Hexachlorobt	13.741	225	70103	17.27	ppb		91
117) Naphthalen	13.796	128	370399	22.52	ppb		98
118) 1,2,3-Tclbenzene	13.985	180	145326	19.81	ppb		98
119) 2,4,5-Trichlorotolene	14.570	159	121656	21.34	ppb		92
120) 2,3,6-Trichlorotoluene	14.656	159	115273	24.29	ppb		92

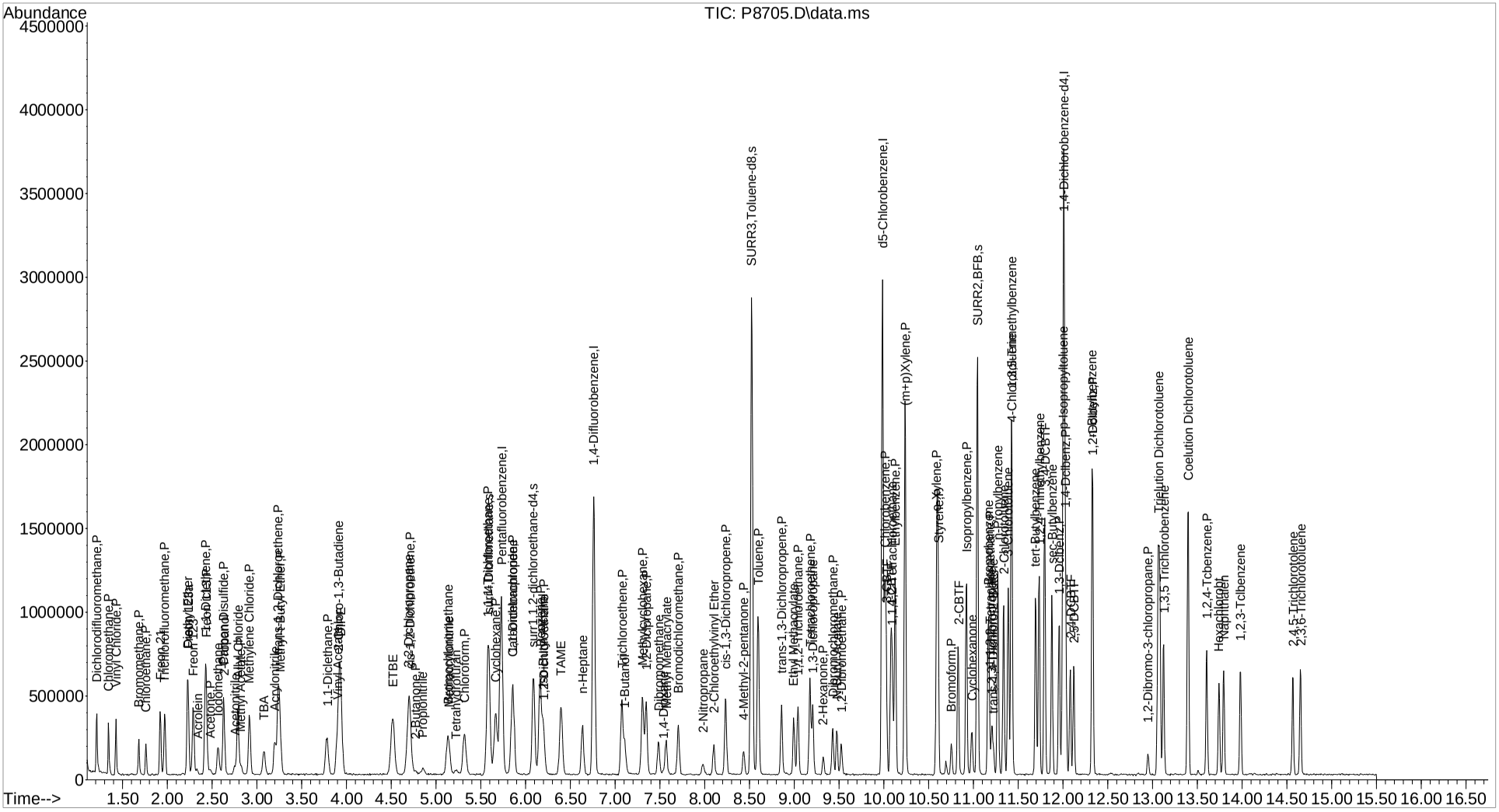
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8705.D
Acq On : 27 Mar 2017 11:22 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

1st 03/27/17 2nd 03/28/17

Quant Time: Mar 27 11:42:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8659.D
Acq On : 24 Mar 2017 12:11 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 12:27:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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	108	0.00
2	P	Dichlorodifluoromethane	0.6084	0.5355	12.0	91	0.00
3	P	Chloromethane	0.5452	0.4907	10.0	101	0.00
4	P	Vinyl Chloride	0.4829	0.4226	12.5	88	0.00
5	P	Bromomethane	0.2440	0.2311	5.3	93	0.00
6	P	Chloroethane	0.2558	0.2492	2.6	102	0.00
7		Freon 21	0.6113	0.6327	-3.5	119	0.00
8	P	Trichlorofluoromethane	0.5408	0.5236	3.2	102	0.00
9		Diethyl Ether	0.2298	0.2353	-2.4	105	0.00
10		Freon 123a	0.3794	0.3970	-4.6	125	0.00
11		Freon 123	0.4373	0.4784	-9.4	124	0.00
12		Acrolein	0.0378	0.0193	NT 48.9#	56	0.00
13	P	1,1-Diclethene	0.3542	0.3484	1.6	109	0.00
14	P	Freon 113	0.3827	0.3572	6.7	99	0.00
15	P	Acetone	0.0734	0.0816	-11.2	127	0.00
16		2-Propanol	0.0124	0.0138	-11.3	120	0.00
17		Iodomethane	0.5198	0.5197	0.0	101	0.00
18	P	Carbon Disulfide	1.0798	1.0172	5.8	97	0.00
19		Acetonitrile	0.0105	0.0130	NT -23.8#	127	0.00
20		Allyl Chloride	0.2112	0.2120	-0.4	109	0.00
21	P	Methyl Acetate	0.1751	0.1825	-4.2	109	0.00
22	P	Methylene Chloride	0.3882	0.3654	5.9	106	0.00
23		TBA	0.0205	0.0227	-10.7	115	0.00
24		Acrylonitrile	0.0857	0.0872	-1.8	105	0.00
25	P	Methyl-t-Butyl Ether	0.9340	0.8932	4.4	103	0.00
26	P	trans-1,2-Dichloroethene	0.4106	0.3910	4.8	108	0.00
27		Halothane	0.0000	0.0000	0.0	0#	0.00
28	P	1,1-Diclethane	0.6874	0.6571	4.4	104	0.00
29		Vinyl Acetate	0.0669	0.0595	11.1	95	0.00
30		DIPE	1.2771	1.3075	-2.4	109	0.00
31		2-Chloro-1,3-Butadiene	0.5890	0.5277	10.4	95	0.00
32		ETBE	1.0826	1.1211	-3.6	108	0.00
33		2,2-Dichloropropane	0.5417	0.5451	-0.6	106	0.00
34	P	cis-1,2-Dichloroethene	0.4372	0.4234	3.2	109	0.00
35	P	2-Butanone	0.1080	0.0933#	13.6	97	0.00
36		Propionitrile	0.0327	0.0333	-1.8	125	0.00
37		Bromochloromethane	0.2389	0.2384	0.2	105	0.00
38		Methacrylonitrile	0.1066	0.1011	5.2	109	0.00
39		Tetrahydrofuran	0.0692	0.0652	5.8	104	0.00
40	P	Chloroform	0.6686	0.6278	6.1	102	0.00
41	P	1,1,1-Trichloroethane	0.5862	0.5463	6.8	104	0.00
42		TAME	0.9562	0.9769	-2.2	105	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	107	0.00
44	P	Cyclohexane	0.2615	0.2390	8.6	110	0.00
45	s	surr4,Dibrflmethane	0.2698	0.2942	-9.0	107	0.00
46	P	Carbontetrachloride	0.0921	0.0874	5.1	110	0.00
47		1,1-Dichloropropene	0.3331	0.3227	3.1	102	0.00
48	s	surr1,1,2-dichloroethane-d4	0.2996	0.3268	-9.1	107	0.00
49	P	Benzene	0.8847	0.9275	-4.8	110	0.00
50	P	1,2-Dichloroethane	0.3126	0.3051	2.4	106	0.00
51		Iso-Butyl Alcohol	0.0055	0.0061	-10.9	114	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8659.D
Acq On : 24 Mar 2017 12:11 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 12:27:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		n-Heptane	0.2980	0.2204	NT 26.0#	77	0.00
53		1-Butanol	0.0032	0.0037	-15.6	121	0.00
54	P	Trichloroethene	0.2582	0.2508	2.9	102	0.00
55	P	Methylcyclohexane	0.3047	0.2455	19.4	90	0.00
56	P	1,2-Diclpropane	0.2506	0.2382	4.9	103	0.00
57		Dibromomethane	0.1270	0.1303	-2.6	109	0.00
58		1,4-Dioxane	0.0018	0.0015	10.3 ~~-16.7~~	99	-0.01
59		Methyl Methacrylate	0.1201	0.1214	-1.1	112	0.00
60	P	Bromodichloromethane	0.3080	0.2948	4.3	106	0.00
61		2-Nitropropane	0.0244	0.0316	NT -29.5#	179	0.00
62		2-Chloroethylvinyl Ether	0.1203	0.0995	17.3	87	0.00
63	P	cis-1,3-Dichloropropene	0.3611	0.3862	-7.0	107	0.00
64	P	4-Methyl-2-pentanone	0.1576	0.1512	4.1	100	0.00
65	s	SURR3,Toluene-d8	1.1155	1.2451	-11.6	105	0.00
66	P	Toluene	1.0357	1.0395	-0.4	103	0.00
67	P	trans-1,3-Dichloropropene	0.2963	0.3120	-5.3	103	0.00
68		Ethyl Methacrylate	0.2293	0.2550	-11.2	112	0.00
69	P	1,1,2-Trichloroethane	0.1757	0.1772	-0.9	105	0.00
70	s	SURR2,BFB	0.4322	0.4576	-5.9	99	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	99	0.00
72	P	Tetrachloroethene	0.2169	0.1915#	11.7	88	0.00
73	P	2-Hexanone	0.1126	0.1122	0.4	97	0.00
74		1,3-Dichloropropane	0.3384	0.3615	-6.8	107	0.00
75	P	Dibromochloromethane	0.1933	0.2226	-15.2	113	0.00
76		N-Butyl Acetate	0.2748	0.3096	-12.7	115	0.00
77	P	1,2-Dibromoethane	0.1763	0.1948	-10.5	107	0.00
78	P	Chlorobenzene	0.7026	0.7175	-2.1	102	0.00
79		3-CBTF	0.3975	0.3421	13.9	87	0.00
80		4-CBTF	0.3648	0.3073	15.8	84	0.00
81		1,1,1,2-Tetrachloroethane	0.2310	0.2505	-8.4	102	0.00
82	P	Ethylbenzene	0.3905	0.3652	6.5	94	0.00
83	P	(m+p)Xylene	0.4604	0.4473	2.8	93	0.00
84	P	o-Xylene	0.4588	0.4571	0.4	97	0.00
85	P	Styrene	0.7670	0.7934	-3.4	96	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	91	0.00
87	P	Bromoform	0.1777	0.2055	-6.7 ~~-15.6~~	100	0.00
88		2-CBTF	0.6877	0.6354	7.6	86	0.00
89	P	Isopropylbenzene	2.0435	1.9591	4.1	86	0.00
90		Cyclohexanone	0.0360	0.0162	NT 55.0#	40#	0.00
91		trans-1,4-Dichloro-2-Butene	0.1103	0.1132	~~-2.6~~	102	0.00
92	P	1,1,2,2-Tetrachloroethane	0.3911	0.4446	-16.7 -13.7	108	0.00
93		Bromobenzene	0.5548	0.5553	-0.1	92	0.00
94		1,2,3-Trichloropropane	0.1252	0.1283	-2.5	102	0.00
95		n-Propylbenzene	2.3593	2.2455	4.8	81	0.00
96		2-Chlorotoluene	1.4201	1.4234	-0.2	89	0.00
97		3-Chlorotoluene	1.5746	1.6251	-3.2	91	0.00
98		4-Chlorotoluene	1.6559	1.6035	3.2	86	0.00
99		1,3,5-Trimethylbenzene	1.7716	1.5583	12.0	78	0.00
100		tert-Butylbenzene	1.4502	1.2744	12.1	75	0.00
101		1,2,4-Trimethylbenzene	1.8181	1.6477	9.4	80	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8659.D
Acq On : 24 Mar 2017 12:11 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 12:27:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		3,4-DCBTF	0.5329	0.4005	NT	24.8#	68	0.00
103		sec-Butylbenzene	2.1311	1.8159		14.8	73	0.00
104		p-Isopropyltoluene	1.7837	1.5092		15.4	73	0.00
105	P	1,3-Dclbenz	1.0604	0.9833		7.3	83	0.00
106	P	1,4-Dclbenz	1.1069	1.0265		7.3	87	0.00
107		2,4-DCBTF	0.4909	0.3538	NT	27.9#	68	0.00
108		2,5-DCBTF	0.5207	0.4223		18.9	73	0.00
109		n-Butylbenzene	1.6268	1.3665		16.0	71	0.00
110	P	1,2-Dclbenz	0.9917	0.9384		5.4	86	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0764	0.0789		-3.3	103	0.00
112		Trielution Dichlorotoluene	0.8532	0.7375		13.6	75	0.00
113		1,3,5 Trichlorobenzene	0.7564	0.5830	NT	22.9#	71	0.00
114		Coelution Dichlorotoluene	0.9218	0.7930		14.0	75	0.00
115	P	1,2,4-Tcbenzene	0.6581	0.5115	NT	22.3#	70	0.00
116		Hexachlorobt	0.2997	0.2151	NT	28.2#	72	0.00
117		Naphthalen	1.2148	1.1549		4.9	84	0.00
118		1,2,3-Tclbenzene	0.5419	0.4391		19.0	73	0.00
119		2,4,5-Trichlorotolene	0.4210	0.3187	NT	24.3#	73	0.00
120		2,3,6-Trichlorotoluene	0.3505	0.2685	NT	23.4#	67	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8659.D
Acq On : 24 Mar 2017 12:11 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 12:27:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	850770	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1352719	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1243548	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	656950	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	397925	54.52	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.04%				
48) surr1,1,2-dichloroetha...	6.090	65	442135	54.56	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.12%				
65) SURR3,Toluene-d8	8.523	98	1684256	55.81	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.62%				
70) SURR2,BFB	11.047	95	618962	52.93	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	455589	44.01	ppb		97
3) Chloromethane	1.341	50	417448	45.00	ppb		100
4) Vinyl Chloride	1.427	62	359501	43.75	ppb		99
5) Bromomethane	1.683	94	196571	47.34	ppb		97
6) Chloroethane	1.762	64	212014	48.71	ppb		93
7) Freon 21	1.921	67	538271	51.75	ppb		97
8) Trichlorofluoromethane	1.969	101	445433	48.41	ppb		94
9) Diethyl Ether	2.225	59	200180	51.20	ppb		88
10) Freon 123a	2.231	67	337794	52.32	ppb		94
11) Freon 123	2.286	83	406980	54.69	ppb		97
12) Acrolein	2.335	56	81976	127.32	ppb		92
13) 1,1-Diclethene	2.426	96	296450	49.19	ppb		92
14) Freon 113	2.433	101	303889	46.67	ppb		86
15) Acetone	2.481	43	69452	55.58	ppb		94
16) 2-Propanol	2.634	45	235038	1113.82	ppb		97
17) Iodomethane	2.567	142	442122	49.99	ppb		92
18) Carbon Disulfide	2.628	76	865413	47.10	ppb		99
19) Acetonitrile	2.750	40	55152	307.68	ppb	#	81
20) Allyl Chloride	2.792	76	180334	50.18	ppb		98
21) Methyl Acetate	2.823	43	155271	52.13	ppb		99
22) Methylene Chloride	2.920	84	310910	47.07	ppb		94
23) TBA	3.079	59	386752	1107.58	ppb		92
24) Acrylonitrile	3.201	53	370884	254.40	ppb		98
25) Methyl-t-Butyl Ether	3.256	73	759888	47.81	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	332632	47.62	ppb		99
28) 1,1-Diclethane	3.780	63	559054	47.80	ppb		98
29) Vinyl Acetate	3.890	86	50627	44.45	ppb		99
30) DIPE	3.938	45	1112412	51.19	ppb		97
31) 2-Chloro-1,3-Butadiene	3.920	53	448955	44.80	ppb		97
32) ETBE	4.518	59	953831	51.78	ppb		97
33) 2,2-Dichloropropane	4.694	77	463773	50.32	ppb		97
34) cis-1,2-Dichloroethene	4.707	96	360199	48.42	ppb		93
35) 2-Butanone	4.768	43	79394	43.20	ppb		90
36) Propionitrile	4.853	54	141812	254.84	ppb		87
37) Bromochloromethane	5.133	130	202858	49.91	ppb		94
38) Methacrylonitrile	5.145	67	86051	47.44	ppb	#	82
39) Tetrahydrofuran	5.225	42	55441	47.09	ppb		94
40) Chloroform	5.316	83	534095	46.95	ppb		100
41) 1,1,1-Trichloroethane	5.584	97	464750	46.59	ppb		97

1st KR 03/24/17
2nd BA 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8659.D
Acq On : 24 Mar 2017 12:11 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 12:27:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	831121	51.08	ppb		97
44) Cyclohexane	5.670	41	323284	45.70	ppb		90
46) Carbontetrachloride	5.847	121	118239	47.45	ppb		100
47) 1,1-Dichloropropene	5.865	75	436455	48.43	ppb		92
49) Benzene	6.164	78	1254635	52.42	ppb		99
50) 1,2-Dichloroethane	6.200	62	412692	48.80	ppb		97
51) Iso-Butyl Alcohol	6.194	43	164878	1104.61	ppb		85
52) n-Heptane	6.639	43	298143	36.98	ppb		94
53) 1-Butanol	7.109	56	253515	2927.31	ppb		99
54) Trichloroethene	7.078	130	339258	48.57	ppb		97
55) Methylcyclohexane	7.310	55	332053	40.29	ppb		95
56) 1,2-Diclpropane	7.346	63	322171	47.52	ppb		95
57) Dibromomethane	7.480	93	176322	51.33	ppb	#	80
58) 1,4-Dioxane	7.541	88	40949	896.66	ppb		83
59) Methyl Methacrylate	7.572	69	164255	50.56	ppb		92
60) Bromodichloromethane	7.706	83	398774	47.86	ppb		96
61) 2-Nitropropane	7.980	41	85561	129.74	ppb		88
62) 2-Chloroethylvinyl Ether	8.102	63	134552	41.33	ppb		94
63) cis-1,3-Dichloropropene	8.236	75	522375	53.47	ppb		97
64) 4-Methyl-2-pentanone	8.431	43	204589	47.99	ppb		99
66) Toluene	8.596	91	1406160	50.19	ppb		98
67) trans-1,3-Dichloropropene	8.858	75	421988	52.63	ppb		92
68) Ethyl Methacrylate	8.992	69	344984	55.62	ppb		99
69) 1,1,2-Trichloroethane	9.041	97	239669	50.41	ppb		92
72) Tetrachloroethene	9.175	164	238078	44.14	ppb		93
73) 2-Hexanone	9.321	43	139527	49.83	ppb		96
74) 1,3-Dichloropropane	9.206	76	449603	53.43	ppb		96
75) Dibromochloromethane	9.431	129	276771	57.57	ppb		95
76) N-Butyl Acetate	9.474	43	384993	56.34	ppb		99
77) 1,2-Dibromoethane	9.523	107	242252	55.25	ppb		95
78) Chlorobenzene	10.010	112	892270	51.06	ppb		98
79) 3-CBTF	10.023	180	425380	43.03	ppb		95
80) 4-CBTF	10.077	180	382165	42.12	ppb		93
81) 1,1,1,2-Tetrachloroethane	10.096	131	311447	54.21	ppb		95
82) Ethylbenzene	10.126	106	454103	46.75	ppb	#	89
83) (m+p)Xylene	10.236	106	1112372	97.14	ppb		97
84) o-Xylene	10.590	106	568372	49.81	ppb		99
85) Styrene	10.602	104	986573	51.72	ppb		97
87) Bromoform	10.754	173	135034	53.34	ppb		95
88) 2-CBTF	10.833	180	417408	46.20	ppb		99
89) Isopropylbenzene	10.919	105	1287033	47.93	ppb		98
90) Cyclohexanone	10.986	55	213498	451.98	ppb		91
91) trans-1,4-Dichloro-2-B...	11.224	53	74353	58.36	ppb		94
92) 1,1,2,2-Tetrachloroethane	11.175	83	292060	56.84	ppb		97
93) Bromobenzene	11.169	156	364811	50.04	ppb		96
94) 1,2,3-Trichloropropane	11.205	110	84305	51.25	ppb		96
95) n-Propylbenzene	11.272	91	1475205	47.59	ppb		100
96) 2-Chlorotoluene	11.339	91	935104	50.12	ppb		99
97) 3-Chlorotoluene	11.388	91	1067629	51.61	ppb		97
98) 4-Chlorotoluene	11.431	91	1053409	48.42	ppb		96
99) 1,3,5-Trimethylbenzene	11.425	105	1023739	43.98	ppb		99
100) tert-Butylbenzene	11.699	119	837188	43.94	ppb		97
101) 1,2,4-Trimethylbenzene	11.736	105	1082442	45.31	ppb		99
102) 3,4-DCBTF	11.791	214	263085	37.57	ppb		96
103) sec-Butylbenzene	11.876	105	1192977	42.61	ppb		99
104) p-Isopropyltoluene	11.998	119	991455	42.31	ppb		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8659.D
Acq On : 24 Mar 2017 12:11 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 12:27:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.955	146	646005	46.37	ppb	97
106) 1,4-Dclbenz	12.034	146	674386	46.37	ppb	99
107) 2,4-DCBTF	12.083	214	232411	36.04	ppb	96
108) 2,5-DCBTF	12.120	214	277403	40.54	ppb	95
109) n-Butylbenzene	12.327	91	897739	42.00	ppb	97
110) 1,2-Dclbenz	12.333	146	616500	47.32	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.949	157	51819	51.60	ppb	86
112) Trielution Dichlorotol...	13.071	125	1453408	129.65	ppb	98
113) 1,3,5 Trichlorobenzene	13.126	180	382988	38.54	ppb	96
114) Coelution Dichlorotoluene	13.400	125	1041859	86.02	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	336037	38.86	ppb	94
116) Hexachlorobt	13.741	225	141329	35.89	ppb	94
117) Naphthalen	13.796	128	758715	47.53	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	288452	40.52	ppb	98
119) 2,4,5-Trichlorotolene	14.570	159	209388	37.85	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	176411	38.30	ppb	95

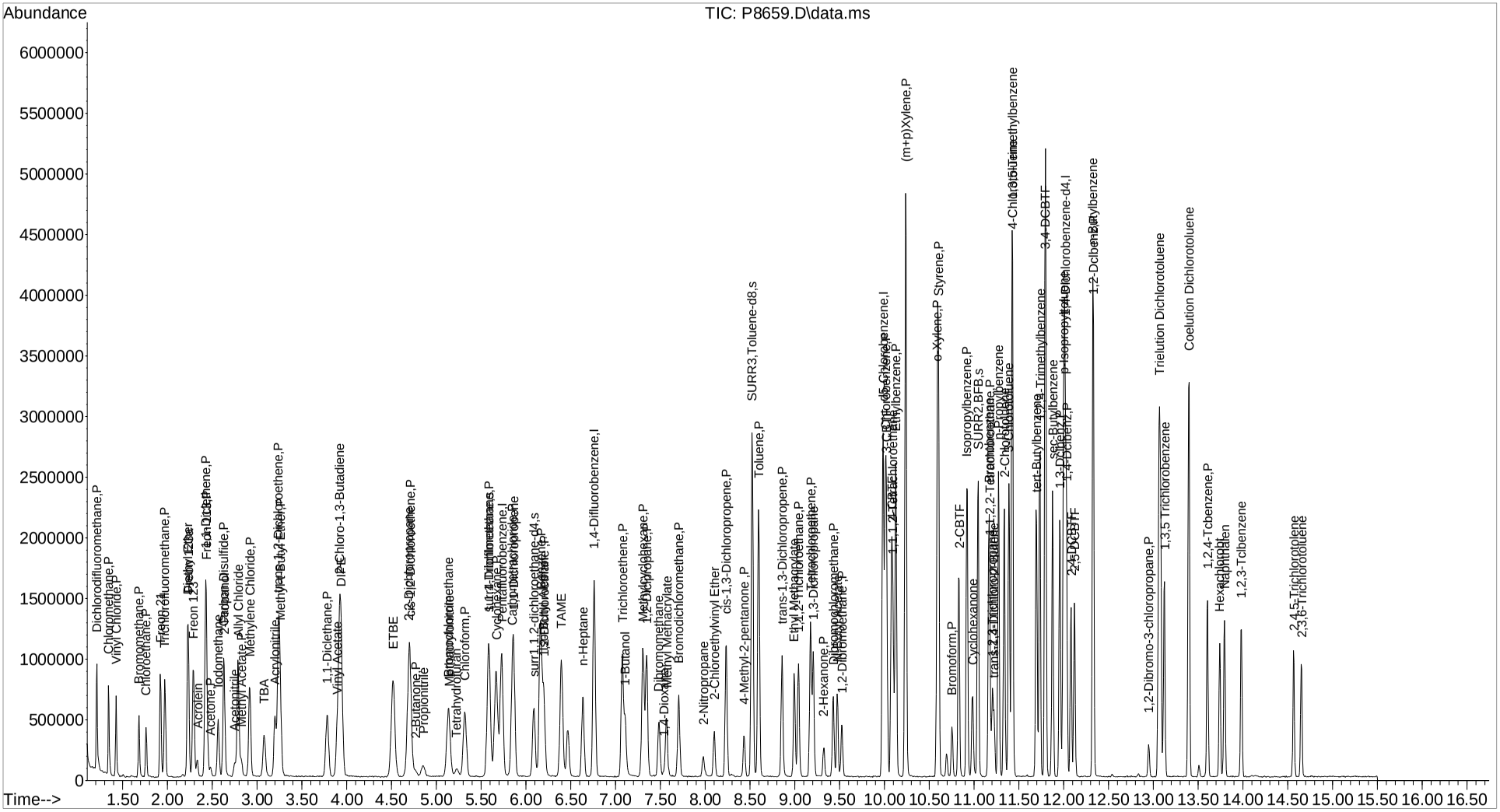
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8659.D
Acq On : 24 Mar 2017 12:11 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 12:27:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

1st 03/24/17
2nd 03/28/17



1st 03/27/17
2nd 03/28/17

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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	105	0.00
2	P	Dichlorodifluoromethane	0.6084	0.5440	10.6	89	0.00
3	P	Chloromethane	0.5452	0.5053	7.3	101	0.00
4	P	Vinyl Chloride	0.4829	0.4460	7.6	90	0.00
5	P	Bromomethane	0.2440	0.1684	NT 31.0#	66	0.00
6	P	Chloroethane	0.2558	0.2602	-1.7	103	0.00
7		Freon 21	0.6113	0.5937	2.9	108	0.00
8	P	Trichlorofluoromethane	0.5408	0.5756	-6.4	109	0.00
9		Diethyl Ether	0.2298	0.2371	-3.2	103	0.00
10		Freon 123a	0.3794	0.3721	1.9	113	0.00
11		Freon 123	0.4373	0.4271	2.3	107	0.00
12		Acrolein	0.0378	0.0168	NT 55.6#	47#	0.00
13	P	1,1-Diclethene	0.3542	0.3669	-3.6	111	0.00
14	P	Freon 113	0.3827	0.3692	3.5	99	0.00
15	P	Acetone	0.0734	0.0836	-13.9	127	0.00
16		2-Propanol	0.0124	0.0124	0.0	104	0.00
17		Iodomethane	0.5198	0.4798	7.7	91	0.00
18	P	Carbon Disulfide	1.0798	1.0669	1.2	99	0.00
19		Acetonitrile	0.0105	0.0117	-11.4	112	0.00
20		Allyl Chloride	0.2112	0.2099	0.6	105	0.00
21	P	Methyl Acetate	0.1751	0.1860	-6.2	108	0.00
22	P	Methylene Chloride	0.3882	0.3706	4.5	104	0.00
23		TBA	0.0205	0.0209	-2.0	102	0.00
24		Acrylonitrile	0.0857	0.0902	-5.3	106	0.00
25	P	Methyl-t-Butyl Ether	0.9340	0.9160	1.9	103	0.00
26	P	trans-1,2-Dichloroethene	0.4106	0.3970	3.3	106	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-0.03
28	P	1,1-Diclethane	0.6874	0.6805	1.0	105	0.00
29		Vinyl Acetate	0.0669	0.0487	NT 27.2#	76	0.00
30		DIPE	1.2771	1.3046	-2.2	106	0.00
31		2-Chloro-1,3-Butadiene	0.5890	0.5558	5.6	97	0.00
32		ETBE	1.0826	1.1388	-5.2	107	0.00
33		2,2-Dichloropropane	0.5417	0.4535	16.3	86	0.00
34	P	cis-1,2-Dichloroethene	0.4372	0.4402	-0.7	110	0.00
35	P	2-Butanone	0.1080	0.1009	6.6	101	0.00
36		Propionitrile	0.0327	0.0304	7.0	111	-0.01
37		Bromochloromethane	0.2389	0.2367	0.9	101	-0.01
38		Methacrylonitrile	0.1066	0.1084	-1.7	113	0.00
39		Tetrahydrofuran	0.0692	0.0702	-1.4	109	0.00
40	P	Chloroform	0.6686	0.6392	4.4	101	0.00
41	P	1,1,1-Trichloroethane	0.5862	0.5671	3.3	105	0.00
42		TAME	0.9562	0.9960	-4.2	104	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	107	0.00
44	P	Cyclohexane	0.2615	0.2089	NT 20.1#	97	0.00
45	s	surr4,Dibrflmethane	0.2698	0.2980	-10.5	109	0.00
46	P	Carbontetrachloride	0.0921	0.0856	7.1	108	0.00
47		1,1-Dichloropropene	0.3331	0.3231	3.0	102	0.00
48	s	surr1,1,2-dichloroethane-d4	0.2996	0.3345	-11.6	110	0.00
49	P	Benzene	0.8847	0.9327	-5.4	112	0.00
50	P	1,2-Dichloroethane	0.3126	0.3004	3.9	105	0.00
51		Iso-Butyl Alcohol	0.0055	0.0061	-10.9	114	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		n-Heptane	0.2980	0.1884	NT 36.8#	66	0.00
53		1-Butanol	0.0032	0.0034	-6.2	111	0.00
54	P	Trichloroethene	0.2582	0.2664	-3.2	109	0.00
55	P	Methylcyclohexane	0.3047	0.2143	NT 29.7#	79	0.00
56	P	1,2-Diclpropane	0.2506	0.2492	0.6	108	0.00
57		Dibromomethane	0.1270	0.1247	1.8	105	0.00
58		1,4-Dioxane	0.0018	0.0015	-10.5 ~~-16.7~~	96	~~-0.01~~
59		Methyl Methacrylate	0.1201	0.1145	4.7	106	0.00
60	P	Bromodichloromethane	0.3080	0.2875	6.7	103	0.00
61		2-Nitropropane	0.0244	0.0307	NT -25.8#	174	0.00
62		2-Chloroethylvinyl Ether	0.1203	0.0978	18.7	86	0.00
63	P	cis-1,3-Dichloropropene	0.3611	0.3795	-5.1	106	0.00
64	P	4-Methyl-2-pentanone	0.1576	0.1470	6.7	98	0.00
65	s	SURR3,Toluene-d8	1.1155	1.2219	-9.5	104	0.00
66	P	Toluene	1.0357	1.0431	-0.7	103	0.00
67	P	trans-1,3-Dichloropropene	0.2963	0.3018	-1.9	100	0.00
68		Ethyl Methacrylate	0.2293	0.2510	-9.5	111	0.00
69	P	1,1,2-Trichloroethane	0.1757	0.1790	-1.9	106	0.00
70	s	SURR2,BFB	0.4322	0.4544	-5.1	98	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	100	0.00
72	P	Tetrachloroethene	0.2169	0.1958#	9.7	90	0.00
73	P	2-Hexanone	0.1126	0.1098	2.5	96	0.00
74		1,3-Dichloropropane	0.3384	0.3583	-5.9	107	0.00
75	P	Dibromochloromethane	0.1933	0.2238	-15.8	115	0.00
76		N-Butyl Acetate	0.2748	0.2890	-5.2	108	0.00
77	P	1,2-Dibromoethane	0.1763	0.1956	-10.9	109	0.00
78	P	Chlorobenzene	0.7026	0.7090	-0.9	102	0.00
79		3-CBTF	0.3975	0.3363	15.4	86	0.00
80		4-CBTF	0.3648	0.3040	16.7	84	0.00
81		1,1,1,2-Tetrachloroethane	0.2310	0.2453	-6.2	101	0.00
82	P	Ethylbenzene	0.3905	0.3836	1.8	100	0.00
83	P	(m+p)Xylene	0.4604	0.4593	0.2	97	0.00
84	P	o-Xylene	0.4588	0.4680	-2.0	101	0.00
85	P	Styrene	0.7670	0.8076	-5.3	99	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	91	0.00
87	P	Bromoform	0.1777	0.2134	~~-20.1#~~	104	0.00
88		2-CBTF	0.6877	0.6370	7.4	87	0.00
89	P	Isopropylbenzene	2.0435	2.0856	-2.1	92	0.00
90		Cyclohexanone	0.0360	0.0257	NT 28.6#	64	0.00
91		trans-1,4-Dichloro-2-Butene	0.1103	0.0973	~~-11.8~~	88	0.00
92	P	1,1,2,2-Tetrachloroethane	0.3911	0.3985	-1.9	97	0.00
93		Bromobenzene	0.5548	0.5573	-0.5	93	0.00
94		1,2,3-Trichloropropane	0.1252	0.1203	3.9	96	0.00
95		n-Propylbenzene	2.3593	2.3698	-0.4	86	0.00
96		2-Chlorotoluene	1.4201	1.4825	-4.4	93	0.00
97		3-Chlorotoluene	1.5746	1.5705	0.3	88	0.00
98		4-Chlorotoluene	1.6559	1.7737	-7.1	95	0.00
99		1,3,5-Trimethylbenzene	1.7716	1.6598	6.3	83	0.00
100		tert-Butylbenzene	1.4502	1.3022	10.2	76	0.00
101		1,2,4-Trimethylbenzene	1.8181	1.7479	3.9	85	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		3,4-DCBTF	0.5329	0.3948	NT	25.9#	67	0.00
103		sec-Butylbenzene	2.1311	1.8834		11.6	76	0.00
104		p-Isopropyltoluene	1.7837	1.5605		12.5	75	0.00
105	P	1,3-Dclbenz	1.0604	1.0209		3.7	86	0.00
106	P	1,4-Dclbenz	1.1069	1.0547		4.7	90	0.00
107		2,4-DCBTF	0.4909	0.3733	NT	24.0#	72	0.00
108		2,5-DCBTF	0.5207	0.4071	NT	21.8#	70	0.00
109		n-Butylbenzene	1.6268	1.3839		14.9	72	0.00
110	P	1,2-Dclbenz	0.9917	0.9941		-0.2	92	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0764	0.0772		-1.0	101	0.00
112		Trielution Dichlorotoluene	0.8532	0.7451		12.7	76	0.00
113		1,3,5 Trichlorobenzene	0.7564	0.6140		18.8	75	0.00
114		Coelution Dichlorotoluene	0.9218	0.8278		10.2	78	0.00
115	P	1,2,4-Tcbenzene	0.6581	0.5345		18.8	74	0.00
116		Hexachlorobt	0.2997	0.1963	NT	34.5#	66	0.00
117		Naphthalen	1.2148	1.1909		2.0	87	0.00
118		1,2,3-Tclbenzene	0.5419	0.4517		16.6	75	0.00
119		2,4,5-Trichlorotolene	0.4210	0.2902	NT	31.1#	66	0.00
120		2,3,6-Trichlorotoluene	0.3505	0.2579	NT	26.4#	65	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	825556	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1358223	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1254929	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	658522	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	404703	55.22	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.44%				
48) surr1,1,2-dichloroetha...	6.084	65	454345	55.84	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.68%				
65) SURR3,Toluene-d8	8.523	98	1659674	54.77	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.54%				
70) SURR2,BFB	11.040	95	617226	52.57	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	449082	44.70	ppb		98
3) Chloromethane	1.341	50	417175	46.35	ppb		98
4) Vinyl Chloride	1.427	62	368184	46.18	ppb		96
5) Bromomethane	1.683	94	139012	34.50	ppb		98
6) Chloroethane	1.762	64	214826	50.86	ppb		96
7) Freon 21	1.920	67	490170	48.57	ppb		94
8) Trichlorofluoromethane	1.969	101	475208	53.22	ppb		94
9) Diethyl Ether	2.225	59	195701	51.59	ppb		93
10) Freon 123a	2.231	67	307167	49.03	ppb		97
11) Freon 123	2.286	83	352563	48.83	ppb		97
12) Acrolein	2.335	56	69361	111.02	ppb		81
13) 1,1-Diclethene	2.426	96	302895	51.79	ppb		93
14) Freon 113	2.432	101	304804	48.24	ppb		97
15) Acetone	2.481	43	69048	56.94	ppb		97
16) 2-Propanol	2.634	45	204324	997.84	ppb		99
17) Iodomethane	2.567	142	396129	46.16	ppb		97
18) Carbon Disulfide	2.627	76	880752	49.40	ppb		98
19) Acetonitrile	2.756	40	48492	278.79	ppb		87
20) Allyl Chloride	2.786	76	173287	49.69	ppb		96
21) Methyl Acetate	2.816	43	153520	53.12	ppb		99
22) Methylene Chloride	2.914	84	305949	47.74	ppb		97
23) TBA	3.079	59	345069	1018.39	ppb		88
24) Acrylonitrile	3.201	53	372173	263.09	ppb		90
25) Methyl-t-Butyl Ether	3.255	73	756199	49.03	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	327721	48.35	ppb		98
28) 1,1-Diclethane	3.780	63	561821	49.50	ppb		97
29) Vinyl Acetate	3.889	86	40184	36.36	ppb	#	50
30) DIPE	3.938	45	1077020	51.08	ppb		97
31) 2-Chloro-1,3-Butadiene	3.914	53	458803	47.18	ppb		91
32) ETBE	4.511	59	940149	52.60	ppb		98
33) 2,2-Dichloropropane	4.694	77	374424	41.86	ppb		95
34) cis-1,2-Dichloroethene	4.712	96	363439	50.35	ppb		95
35) 2-Butanone	4.767	43	83272	46.69	ppb		93
36) Propionitrile	4.847	54	125492	232.40	ppb		94
37) Bromochloromethane	5.127	130	195438	49.55	ppb		94
38) Methacrylonitrile	5.145	67	89474	50.83	ppb		90
39) Tetrahydrofuran	5.231	42	57960	50.73	ppb		84
40) Chloroform	5.316	83	527707	47.80	ppb		98
41) 1,1,1-Trichloroethane	5.584	97	468188	48.37	ppb		96

1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	822218	52.08	ppb	99
44) Cyclohexane	5.670	41	283695	39.94	ppb	93
46) Carbontetrachloride	5.852	121	116274	46.47	ppb	96
47) 1,1-Dichloropropene	5.865	75	438831	48.50	ppb	94
49) Benzene	6.163	78	1266789	52.71	ppb	98
50) 1,2-Dichloroethane	6.200	62	408019	48.05	ppb	97
51) Iso-Butyl Alcohol	6.188	43	165745	1105.92	ppb	91
52) n-Heptane	6.639	43	255878	31.61	ppb	96
53) 1-Butanol	7.108	56	232406	2672.69	ppb	99
54) Trichloroethene	7.078	130	361829	51.59	ppb	96
55) Methylcyclohexane	7.303	55	291057	35.17	ppb	97
56) 1,2-Diclpropane	7.346	63	338407	49.71	ppb	93
57) Dibromomethane	7.486	93	169338	49.10	ppb	98
58) 1,4-Dioxane	7.541	88	39698	863.83	ppb	86
59) Methyl Methacrylate	7.566	69	155480	47.66	ppb	99
60) Bromodichloromethane	7.706	83	390448	46.67	ppb	96
61) 2-Nitropropane	7.980	41	83425	125.98	ppb	99
62) 2-Chloroethylvinyl Ether	8.102	63	132841	40.64	ppb	94
63) cis-1,3-Dichloropropene	8.236	75	515493	52.55	ppb	95
64) 4-Methyl-2-pentanone	8.431	43	199711	46.65	ppb	93
66) Toluene	8.596	91	1416730	50.36	ppb	96
67) trans-1,3-Dichloropropene	8.858	75	409864	50.92	ppb	96
68) Ethyl Methacrylate	8.992	69	340973	54.75	ppb	95
69) 1,1,2-Trichloroethane	9.041	97	243090	50.93	ppb	96
72) Tetrachloroethene	9.175	164	245771	45.15	ppb	93
73) 2-Hexanone	9.321	43	137782	48.76	ppb	80
74) 1,3-Dichloropropane	9.205	76	449608	52.94	ppb	97
75) Dibromochloromethane	9.431	129	280820	57.88	ppb	95
76) N-Butyl Acetate	9.474	43	362632	52.59	ppb	97
77) 1,2-Dibromoethane	9.522	107	245489	55.48	ppb	96
78) Chlorobenzene	10.010	112	889712	50.46	ppb	97
79) 3-CBTF	10.028	180	421986	42.30	ppb	93
80) 4-CBTF	10.077	180	381482	41.66	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.096	131	307815	53.10	ppb	99
82) Ethylbenzene	10.126	106	481383	49.11	ppb	97
83) (m+p)Xylene	10.236	106	1152775	99.76	ppb	100
84) o-Xylene	10.589	106	587342	51.01	ppb	97
85) Styrene	10.602	104	1013431	52.65	ppb	97
87) Bromoform	10.754	173	140498	55.23	ppb	99
88) 2-CBTF	10.833	180	419511	46.32	ppb	99
89) Isopropylbenzene	10.925	105	1373439	51.03	ppb	99
90) Cyclohexanone	10.980	55	339131	716.24	ppb	97
91) trans-1,4-Dichloro-2-B...	11.223	53	64093	50.51	ppb	99
92) 1,1,2,2-Tetrachloroethane	11.175	83	262419	50.95	ppb	98
93) Bromobenzene	11.169	156	366970	50.22	ppb	97
94) 1,2,3-Trichloropropane	11.205	110	79253	48.06	ppb	93
95) n-Propylbenzene	11.272	91	1560571	50.22	ppb	100
96) 2-Chlorotoluene	11.339	91	976257	52.20	ppb	99
97) 3-Chlorotoluene	11.388	91	1034215	49.87	ppb	97
98) 4-Chlorotoluene	11.431	91	1168038	53.56	ppb	100
99) 1,3,5-Trimethylbenzene	11.425	105	1093046	46.85	ppb	99
100) tert-Butylbenzene	11.699	119	857509	44.90	ppb	99
101) 1,2,4-Trimethylbenzene	11.735	105	1151031	48.07	ppb	99
102) 3,4-DCBTF	11.796	214	260005	37.04	ppb	93
103) sec-Butylbenzene	11.876	105	1240236	44.19	ppb	100
104) p-Isopropyltoluene	11.998	119	1027648	43.75	ppb	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	672302	48.14	ppb	97
106) 1,4-Dclbenz	12.034	146	694576	47.65	ppb	99
107) 2,4-DCBTF	12.083	214	245829	38.03	ppb	96
108) 2,5-DCBTF	12.126	214	268054	39.08	ppb	97
109) n-Butylbenzene	12.327	91	911333	42.53	ppb	100
110) 1,2-Dclbenz	12.333	146	654647	50.12	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.955	157	50856	50.52	ppb	94
112) Trielution Dichlorotol...	13.071	125	1471971	130.99	ppb	98
113) 1,3,5 Trichlorobenzene	13.125	180	404333	40.59	ppb	95
114) Coelution Dichlorotoluene	13.400	125	1090237	89.80	ppb	98
115) 1,2,4-Tcbenzene	13.607	180	351956	40.61	ppb	96
116) Hexachlorobt	13.741	225	129296	32.76	ppb	93
117) Naphthalen	13.796	128	784231	49.02	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	297475	41.68	ppb	98
119) 2,4,5-Trichlorotolene	14.564	159	191097	34.46	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	169826	36.79	ppb	98

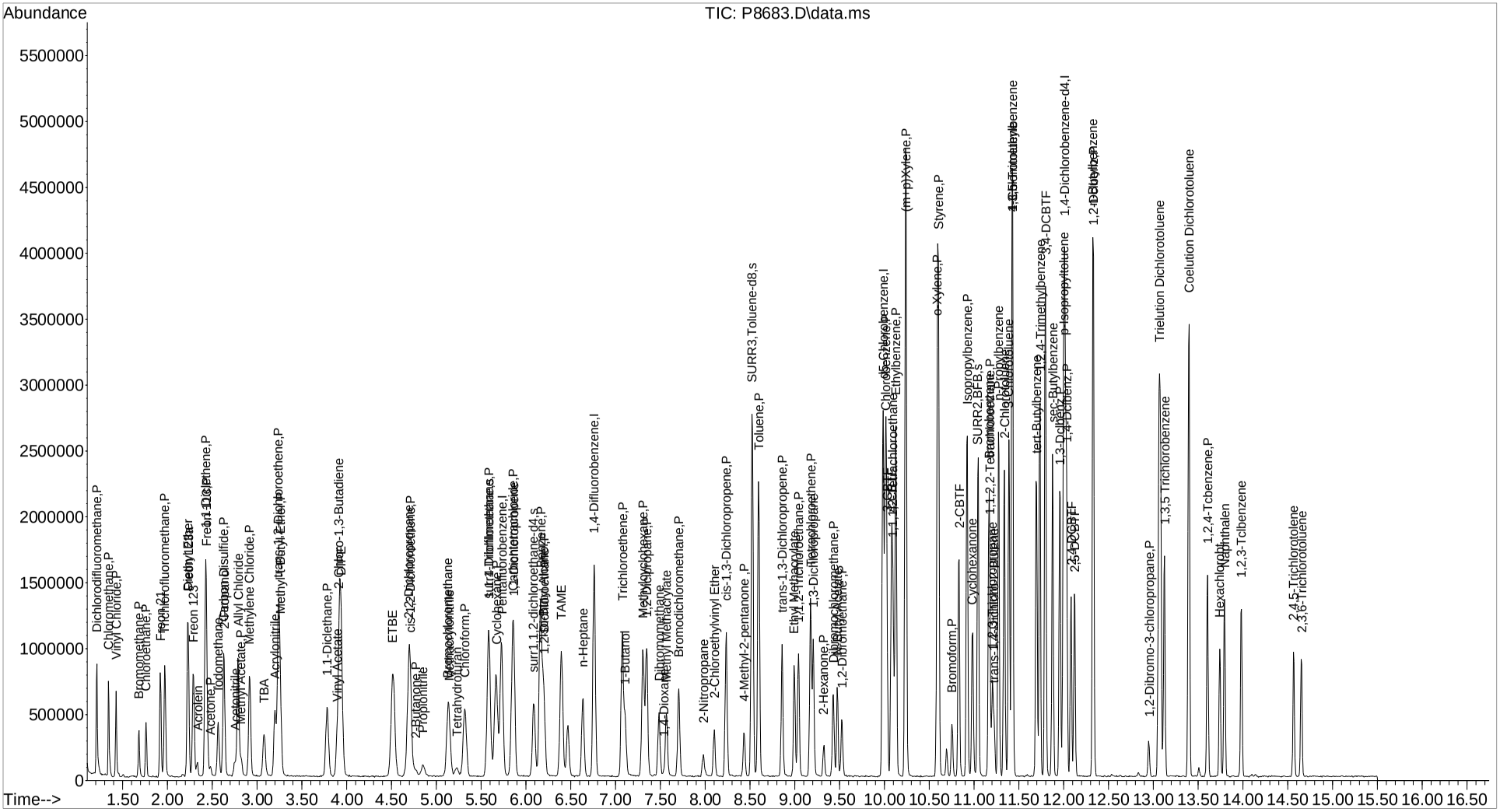
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

1st 03/27/17
2nd 03/28/17



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8704.D
Acq On : 27 Mar 2017 10:51 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 11:11:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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	105	0.00
2	P	Dichlorodifluoromethane	0.6084	0.5716	6.0	94	0.00
3	P	Chloromethane	0.5452	0.4709	13.6	94	0.00
4	P	Vinyl Chloride	0.4829	0.4469	7.5	91	0.00
5	P	Bromomethane	0.2440	0.2129	12.7	83	0.00
6	P	Chloroethane	0.2558	0.2582	-0.9	102	0.00
7		Freon 21	0.6113	0.6208	-1.6	113	0.00
8	P	Trichlorofluoromethane	0.5408	0.5812	-7.5	110	0.00
9		Diethyl Ether	0.2298	0.2440	-6.2	106	0.00
10		Freon 123a	0.3794	0.3888	-2.5	119	0.00
11		Freon 123	0.4373	0.4762	-8.9	120	0.00
12		Acrolein	0.0378	0.0171	NT 54.8#	48#	0.00
13	P	1,1-Diclethene	0.3542	0.3576	-1.0	109	0.00
14	P	Freon 113	0.3827	0.3776	1.3	102	0.00
15	P	Acetone	0.0734	0.0767	-4.5	117	0.00
16		2-Propanol	0.0124	0.0125	-0.8	105	0.00
17		Iodomethane	0.5198	0.5117	1.6	97	0.00
18	P	Carbon Disulfide	1.0798	1.1288	-4.5	105	0.00
19		Acetonitrile	0.0105	0.0111	-5.7	106	0.00
20		Allyl Chloride	0.2112	0.2228	-5.5	112	0.00
21	P	Methyl Acetate	0.1751	0.1910	-9.1	111	0.00
22	P	Methylene Chloride	0.3882	0.3812	1.8	107	0.00
23		TBA	0.0205	0.0209	-2.0	103	0.00
24		Acrylonitrile	0.0857	0.0874	-2.0	103	0.00
25	P	Methyl-t-Butyl Ether	0.9340	0.8966	4.0	101	0.00
26	P	trans-1,2-Dichloroethene	0.4106	0.3928	4.3	106	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-0.03
28	P	1,1-Diclethane	0.6874	0.6746	1.9	104	0.00
29		Vinyl Acetate	0.0669	0.0647	3.3	101	0.00
30		DIPE	1.2771	1.3382	-4.8	109	0.00
31		2-Chloro-1,3-Butadiene	0.5890	0.5829	1.0	102	0.00
32		ETBE	1.0826	1.1613	-7.3	109	0.00
33		2,2-Dichloropropane	0.5417	0.5604	-3.5	107	0.00
34	P	cis-1,2-Dichloroethene	0.4372	0.4333	0.9	108	0.00
35	P	2-Butanone	0.1080	0.1028	4.8	104	0.00
36		Propionitrile	0.0327	0.0309	5.5	113	-0.01
37		Bromochloromethane	0.2389	0.2268	5.1	97	0.00
38		Methacrylonitrile	0.1066	0.1026	3.8	107	0.00
39		Tetrahydrofuran	0.0692	0.0704	-1.7	110	0.00
40	P	Chloroform	0.6686	0.6497	2.8	103	0.00
41	P	1,1,1-Trichloroethane	0.5862	0.5695	2.8	106	0.00
42		TAME	0.9562	0.9754	-2.0	102	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	108	0.00
44	P	Cyclohexane	0.2615	0.2318	11.4	108	0.00
45	s	surr4,Dibrflmethane	0.2698	0.2929	-8.6	107	0.00
46	P	Carbontetrachloride	0.0921	0.0850	7.7	108	0.00
47		1,1-Dichloropropene	0.3331	0.3283	1.4	104	0.00
48	s	surr1,1,2-dichloroethane-d4	0.2996	0.3363	-12.2	111	0.00
49	P	Benzene	0.8847	0.9555	-8.0	115	0.00
50	P	1,2-Dichloroethane	0.3126	0.3082	1.4	108	0.00
51		Iso-Butyl Alcohol	0.0055	0.0058	-5.5	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8704.D
Acq On : 27 Mar 2017 10:51 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 11:11:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		n-Heptane	0.2980	0.2205	NT 26.0#	78	0.00
53		1-Butanol	0.0032	0.0035	-9.4	113	0.00
54	P	Trichloroethene	0.2582	0.2522	2.3	103	0.00
55	P	Methylcyclohexane	0.3047	0.2416	NT 20.7#	90	0.00
56	P	1,2-Diclpropane	0.2506	0.2461	1.8	107	0.00
57		Dibromomethane	0.1270	0.1277	-0.6	108	0.00
58		1,4-Dioxane	0.0018	0.0015	-11.8 ~~-16.7~~	98	-0.01
59		Methyl Methacrylate	0.1201	0.1205	-0.3	112	0.00
60	P	Bromodichloromethane	0.3080	0.3011	2.2	109	0.00
61		2-Nitropropane	0.0244	0.0328	NT -34.4#	186	0.00
62		2-Chloroethylvinyl Ether	0.1203	0.0978	18.7	86	0.00
63	P	cis-1,3-Dichloropropene	0.3611	0.3871	-7.2	108	0.00
64	P	4-Methyl-2-pentanone	0.1576	0.1465	7.0	97	0.00
65	s	SURR3,Toluene-d8	1.1155	1.2351	-10.7	105	0.00
66	P	Toluene	1.0357	1.0553	-1.9	105	0.00
67	P	trans-1,3-Dichloropropene	0.2963	0.3147	-6.2	104	0.00
68		Ethyl Methacrylate	0.2293	0.2463	-7.4	109	0.00
69	P	1,1,2-Trichloroethane	0.1757	0.1756	0.1	104	0.00
70	s	SURR2,BFB	0.4322	0.4649	-7.6	101	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	104	0.00
72	P	Tetrachloroethene	0.2169	0.1951#	10.1	93	0.00
73	P	2-Hexanone	0.1126	0.1024	9.1	93	0.00
74		1,3-Dichloropropane	0.3384	0.3480	-2.8	108	0.00
75	P	Dibromochloromethane	0.1933	0.2145	-11.0	114	0.00
76		N-Butyl Acetate	0.2748	0.2813	-2.4	109	0.00
77	P	1,2-Dibromoethane	0.1763	0.1785	-1.2	103	0.00
78	P	Chlorobenzene	0.7026	0.6962	0.9	103	0.00
79		3-CBTF	0.3975	0.3477	12.5	92	0.00
80		4-CBTF	0.3648	0.3126	14.3	90	0.00
81		1,1,1,2-Tetrachloroethane	0.2310	0.2399	-3.9	103	0.00
82	P	Ethylbenzene	0.3905	0.3757	3.8	101	0.00
83	P	(m+p)Xylene	0.4604	0.4552	1.1	99	0.00
84	P	o-Xylene	0.4588	0.4460	2.8	99	0.00
85	P	Styrene	0.7670	0.7622	0.6	97	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	93	0.00
87	P	Bromoform	0.1777	0.2271	-17.1 ~~-27.8#~~	113	0.00
88		2-CBTF	0.6877	0.6609	3.9	92	0.00
89	P	Isopropylbenzene	2.0435	2.0230	1.0	91	0.00
90		Cyclohexanone	0.0360	0.0169	NT 53.1#	43#	0.00
91		trans-1,4-Dichloro-2-Butene	0.1103	0.1077	-11.3 ~~-2.4~~	99	0.00
92	P	1,1,2,2-Tetrachloroethane	0.3911	0.4226	-8.1	105	0.00
93		Bromobenzene	0.5548	0.5770	-4.0	98	0.00
94		1,2,3-Trichloropropane	0.1252	0.1205	3.8	98	0.00
95		n-Propylbenzene	2.3593	2.3995	-1.7	89	0.00
96		2-Chlorotoluene	1.4201	1.4672	-3.3	94	0.00
97		3-Chlorotoluene	1.5746	1.6857	-7.1	96	0.00
98		4-Chlorotoluene	1.6559	1.6900	-2.1	92	0.00
99		1,3,5-Trimethylbenzene	1.7716	1.6569	6.5	84	0.00
100		tert-Butylbenzene	1.4502	1.2994	10.4	78	0.00
101		1,2,4-Trimethylbenzene	1.8181	1.7349	4.6	86	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8704.D
Acq On : 27 Mar 2017 10:51 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 11:11:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		3,4-DCBTF	0.5329	0.4188	NT	21.4#	73	0.00	
103		sec-Butylbenzene	2.1311	1.9388		9.0	80	0.00	
104		p-Isopropyltoluene	1.7837	1.6059		10.0	79	0.00	
105	P	1,3-Dclbenz	1.0604	1.0319		2.7	89	0.00	
106	P	1,4-Dclbenz	1.1069	1.0357		6.4	90	0.00	
107		2,4-DCBTF	0.4909	0.3714	NT	24.3#	73	0.00	
108		2,5-DCBTF	0.5207	0.4309		17.2	76	0.00	
109		n-Butylbenzene	1.6268	1.4357		11.7	76	0.00	
110	P	1,2-Dclbenz	0.9917	0.9772		1.5	92	0.00	
111	P	1,2-Dibromo-3-chloropropane	0.0764	0.0777		-1.7	104	0.00	
112		Trielution Dichlorotoluene	0.8532	0.7682		10.0	80	0.00	
113		1,3,5 Trichlorobenzene	0.7564	0.6205		18.0	77	0.00	
114		Coelution Dichlorotoluene	0.9218	0.8315		9.8	80	0.00	
115	P	1,2,4-Tcbenzene	0.6581	0.5285		19.7	74	0.00	
116		Hexachlorobt	0.2997	0.2140		28.6#	74	0.00	*
117		Naphthalen	1.2148	1.1526		5.1	86	0.00	
118		1,2,3-Tclbenzene	0.5419	0.4475		17.4	76	0.00	
119		2,4,5-Trichlorotolene	0.4210	0.3009	NT	28.5#	70	0.00	
120		2,3,6-Trichlorotoluene	0.3505	0.2679	NT	23.6#	68	0.00	

(#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8704.D
Acq On : 27 Mar 2017 10:51 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 11:11:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	827804	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1361424	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1300183	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	671666	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	398809	54.29	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.58%				
48) surr1,1,2-dichloroetha...	6.084	65	457837	56.13	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 112.26%				
65) SURR3,Toluene-d8	8.523	98	1681486	55.36	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.72%				
70) SURR2,BFB	11.047	95	632970	53.78	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.56%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	473170	46.97	ppb		99
3) Chloromethane	1.341	50	389778	43.18	ppb		98
4) Vinyl Chloride	1.427	62	369915	46.27	ppb		100
5) Bromomethane	1.683	94	176272	43.63	ppb		99
6) Chloroethane	1.762	64	213762	50.47	ppb		89
7) Freon 21	1.920	67	513897	50.78	ppb		99
8) Trichlorofluoromethane	1.969	101	481082	53.73	ppb		98
9) Diethyl Ether	2.225	59	201976	53.10	ppb		95
10) Freon 123a	2.231	67	321827	51.23	ppb		99
11) Freon 123	2.292	83	394178	54.44	ppb		97
12) Acrolein	2.335	56	70627	112.74	ppb		96
13) 1,1-Diclethene	2.426	96	296023	50.48	ppb		96
14) Freon 113	2.433	101	312612	49.34	ppb		93
15) Acetone	2.481	43	63530	52.25	ppb		97
16) 2-Propanol	2.634	45	206469	1005.58	ppb		100
17) Iodomethane	2.567	142	423604	49.22	ppb		96
18) Carbon Disulfide	2.628	76	934405	52.27	ppb		99
19) Acetonitrile	2.750	40	45789	262.53	ppb	#	39
20) Allyl Chloride	2.786	76	184468	52.75	ppb		96
21) Methyl Acetate	2.823	43	158100	54.55	ppb		95
22) Methylene Chloride	2.914	84	315539	49.10	ppb		93
23) TBA	3.079	59	346107	1018.68	ppb		92
24) Acrylonitrile	3.201	53	361761	255.03	ppb		97
25) Methyl-t-Butyl Ether	3.256	73	742202	48.00	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	325135	47.83	ppb		91
28) 1,1-Diclethane	3.780	63	558413	49.06	ppb		94
29) Vinyl Acetate	3.890	86	53593	48.36	ppb	#	94
30) DIPE	3.932	45	1107772	52.39	ppb		96
31) 2-Chloro-1,3-Butadiene	3.920	53	482523	49.48	ppb		98
32) ETBE	4.518	59	961304	53.64	ppb		97
33) 2,2-Dichloropropane	4.694	77	463917	51.73	ppb		97
34) cis-1,2-Dichloroethene	4.707	96	358689	49.55	ppb		98
35) 2-Butanone	4.767	43	85120	47.60	ppb		91
36) Propionitrile	4.847	54	127743	235.93	ppb		85
37) Bromochloromethane	5.133	130	187705	47.46	ppb		94
38) Methacrylonitrile	5.145	67	84906	48.11	ppb		94
39) Tetrahydrofuran	5.231	42	58300	50.89	ppb		79
40) Chloroform	5.316	83	537802	48.59	ppb		94
41) 1,1,1-Trichloroethane	5.584	97	471448	48.58	ppb		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8704.D
Acq On : 27 Mar 2017 10:51 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 11:11:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	807432	51.00	ppb		98
44) Cyclohexane	5.664	41	315551	44.32	ppb		93
46) Carbontetrachloride	5.847	121	115703	46.14	ppb		98
47) 1,1-Dichloropropene	5.865	75	446967	49.28	ppb		94
49) Benzene	6.164	78	1300834	54.00	ppb		97
50) 1,2-Dichloroethane	6.200	62	419653	49.30	ppb		97
51) Iso-Butyl Alcohol	6.194	43	156794	1043.73	ppb		93
52) n-Heptane	6.639	43	300262	37.01	ppb		92
53) 1-Butanol	7.108	56	235619	2703.27	ppb		96
54) Trichloroethene	7.072	130	343414	48.85	ppb		96
55) Methylcyclohexane	7.304	55	328881	39.65	ppb		96
56) 1,2-Diclpropane	7.346	63	335086	49.11	ppb		100
57) Dibromomethane	7.480	93	173866	50.29	ppb		86
58) 1,4-Dioxane	7.541	88	40579	882.01	ppb		86
59) Methyl Methacrylate	7.572	69	164107	50.19	ppb		87
60) Bromodichloromethane	7.706	83	409973	48.89	ppb		96
61) 2-Nitropropane	7.980	41	89244	134.46	ppb		96
62) 2-Chloroethylvinyl Ether	8.102	63	133095	40.62	ppb		98
63) cis-1,3-Dichloropropene	8.236	75	526985	53.60	ppb		94
64) 4-Methyl-2-pentanone	8.437	43	199392	46.47	ppb		97
66) Toluene	8.596	91	1436735	50.95	ppb		96
67) trans-1,3-Dichloropropene	8.858	75	428502	53.11	ppb		100
68) Ethyl Methacrylate	8.992	69	335254	53.70	ppb		97
69) 1,1,2-Trichloroethane	9.041	97	239016	49.95	ppb		96
72) Tetrachloroethene	9.175	164	253632	44.97	ppb		94
73) 2-Hexanone	9.328	43	133098	45.46	ppb		95
74) 1,3-Dichloropropane	9.206	76	452514	51.43	ppb		96
75) Dibromochloromethane	9.431	129	278952	55.50	ppb		99
76) N-Butyl Acetate	9.474	43	365793	51.20	ppb		95
77) 1,2-Dibromoethane	9.523	107	232020	50.61	ppb		92
78) Chlorobenzene	10.010	112	905126	49.54	ppb		98
79) 3-CBTF	10.023	180	452088	43.74	ppb		95
80) 4-CBTF	10.077	180	406448	42.85	ppb		96
81) 1,1,1,2-Tetrachloroethane	10.096	131	311910	51.93	ppb		100
82) Ethylbenzene	10.126	106	488520	48.10	ppb		97
83) (m+p)Xylene	10.242	106	1183633	98.86	ppb		99
84) o-Xylene	10.589	106	579906	48.61	ppb		93
85) Styrene	10.602	104	991009	49.69	ppb		92
87) Bromoform	10.754	173	152543	58.54	ppb		98
88) 2-CBTF	10.833	180	443932	48.06	ppb		99
89) Isopropylbenzene	10.925	105	1358751	49.50	ppb		98
90) Cyclohexanone	10.986	55	226875	469.78	ppb		94
91) trans-1,4-Dichloro-2-B...	11.224	53	72356	55.67	ppb		89
92) 1,1,2,2-Tetrachloroethane	11.175	83	283857	54.04	ppb		97
93) Bromobenzene	11.169	156	387526	51.99	ppb		94
94) 1,2,3-Trichloropropane	11.205	110	80940	48.13	ppb		89
95) n-Propylbenzene	11.272	91	1611686	50.85	ppb		99
96) 2-Chlorotoluene	11.339	91	985467	51.66	ppb		98
97) 3-Chlorotoluene	11.388	91	1132231	53.53	ppb	#	96
98) 4-Chlorotoluene	11.431	91	1135117	51.03	ppb		99
99) 1,3,5-Trimethylbenzene	11.425	105	1112885	46.76	ppb		100
100) tert-Butylbenzene	11.699	119	872764	44.80	ppb		98
101) 1,2,4-Trimethylbenzene	11.736	105	1165262	47.71	ppb		98
102) 3,4-DCBTF	11.797	214	281263	39.29	ppb		95
103) sec-Butylbenzene	11.876	105	1302252	45.49	ppb		98
104) p-Isopropyltoluene	11.998	119	1078638	45.02	ppb		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8704.D
Acq On : 27 Mar 2017 10:51 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 11:11:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	693109	48.66	ppb	97
106) 1,4-Dclbenz	12.034	146	695646	46.79	ppb	98
107) 2,4-DCBTF	12.083	214	249444	37.83	ppb	99
108) 2,5-DCBTF	12.126	214	289396	41.37	ppb	94
109) n-Butylbenzene	12.327	91	964332	44.13	ppb	99
110) 1,2-Dclbenz	12.333	146	656380	49.27	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.955	157	52157	50.79	ppb	90
112) Trielution Dichlorotol...	13.071	125	1547972	135.06	ppb	99
113) 1,3,5 Trichlorobenzene	13.126	180	416798	41.02	ppb	99
114) Coelution Dichlorotoluene	13.400	125	1117042	90.20	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	354950	40.15	ppb	95
116) Hexachlorobt	13.741	225	143731	35.70	ppb	96
117) Naphthalen	13.796	128	774181	47.44	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	300597	41.30	ppb	95
119) 2,4,5-Trichlorotolene	14.570	159	202078	35.73	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	179908	38.21	ppb	97

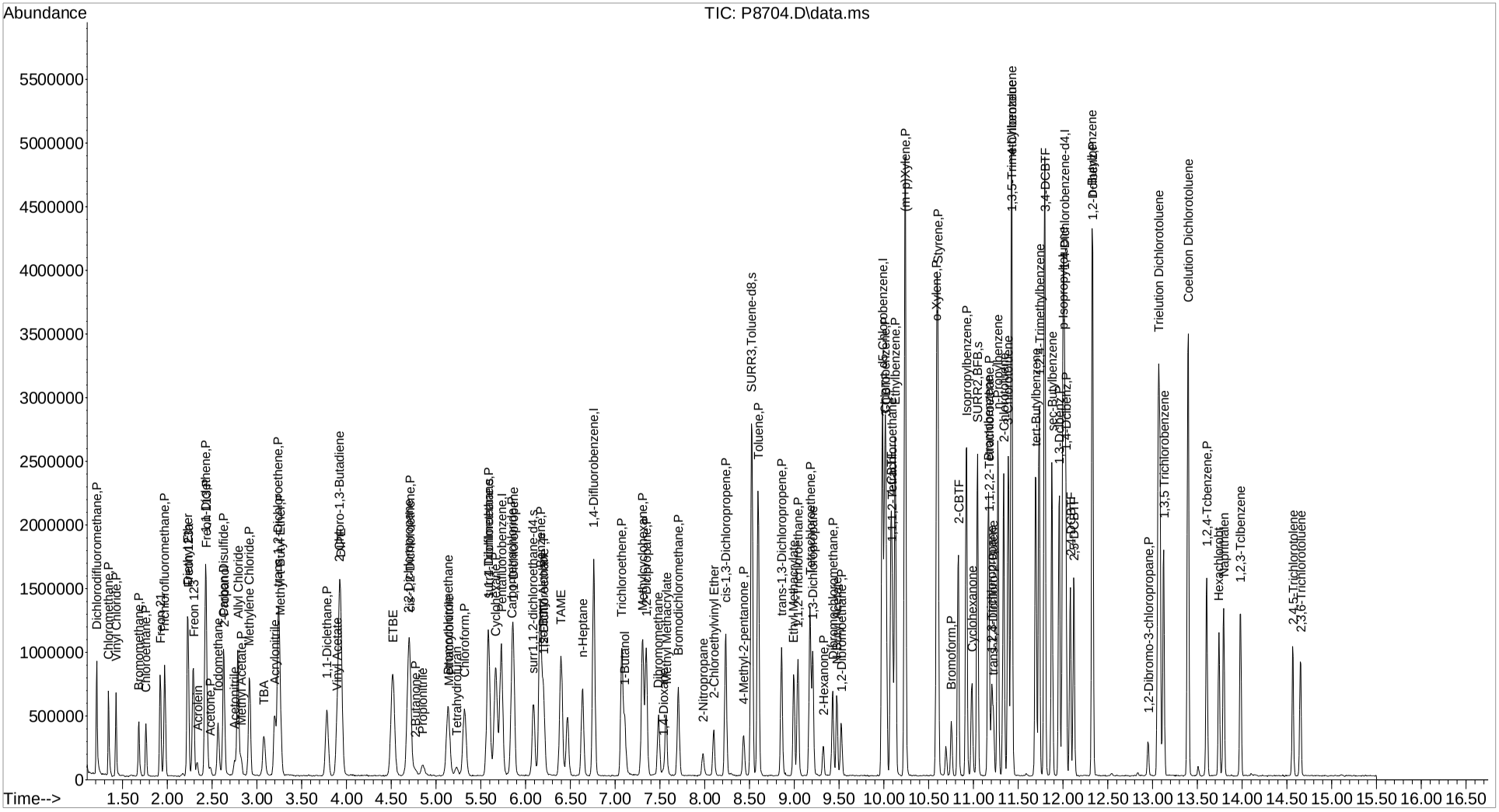
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8704.D
Acq On : 27 Mar 2017 10:51 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 11:11:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

1st 03/27/17
2nd 03/28/17



GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\032417\P8658.D
Tune Time : 24 Mar 2017 11:42 am

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\032417\P8659.D

850770 1352720 1243550

656950

File	Sample	Surrogate Recovery %				Internal Standard Responses		
P8659.D								
	CCV	109	109	112	106	850770	1352719	1243548
				656950				
P8660.D								
	LCS	109	108	109	101	848404	1385870	1265677
				631868				
P8661.D								
	VBLK	108	113	108	98	847893	1346392	1245937
				604605				
P8662.D								
	VBLK	106	112	110	103	813734	1315150	1221134
				610173				
P8663.D								
	R1702494-0	106	108	109	100	826357	1337125	1200065
				607112				
P8664.D								
	R1702494-0	107	112	109	101	813325	1311709	1201470
				598867				
P8665.D								
	R1702494-0	108	116	113	102	804580	1272172	1206513
				598915				
P8666.D								
	R1702494-0	110	114	109	104	794309	1273207	1179916
				589639				
P8667.D								
	R1702492-0	110	115	109	101	798466	1294865	1205505
				608371				
P8668.D								
	R1702492-0	105	111	109	99	795066	1288883	1182824
				575521				
P8669.D								
	R1702492-0	110	113	112	104	803250	1276307	1189488
				596762				
P8670.D								
	R1702492-0	107	114	107	103	782958	1291743	1179610
				590474				
P8671.D								
	R1702492-0	105	119	108	100	789923	1291368	1168187
				565263				
P8672.D								

1st 03/27/17
2nd 03/28/17

```
         R1702492-0  108  116  110  100      792761    1299243    1178707
                              585139
-------------------------------------------------------------------------
P8673.D
         R1702494-0  108  118  108  102      789116    1297747    1187374
                              554660
-------------------------------------------------------------------------
P8674.D
         R1702494-0  108  113  106  101      753381    1287303    1171462
                              577777
-------------------------------------------------------------------------
P8675.D
         R1702494-0  107  118  109  102      785276    1294532    1187563
                              569328
-------------------------------------------------------------------------
P8676.D
         R1702494-0  113  116  108  100      789127    1287942    1166736
                              581881
-------------------------------------------------------------------------
P8677.D
         R1702494-0  107  116  110   99      777358    1300663    1194441
                              577560
-------------------------------------------------------------------------
P8678.D
         R1702494-0  112  111  111  102      776130    1267266    1154691
                              600729
-------------------------------------------------------------------------
P8679.D
         R1702494-0  111  109  111  105      792547    1323384    1217267
                              651477
-------------------------------------------------------------------------
P8680.D
         R1702494-0  110  112  112  105      851228    1348920    1256006
                              650434
-------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

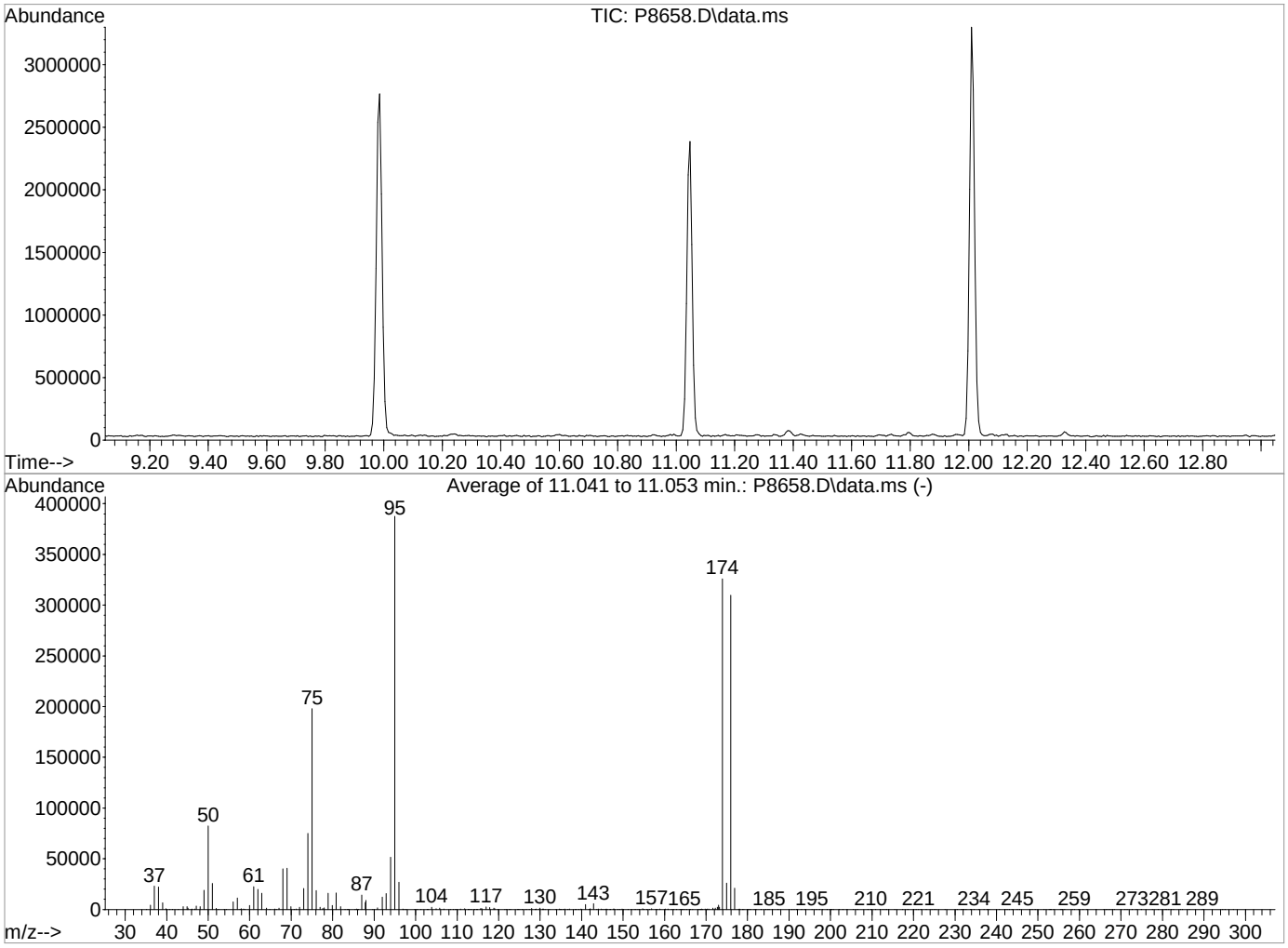
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1st 03/24/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8658.D
Acq On : 24 Mar 2017 11:42 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Thu Jan 05 10:50:17 2017



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1622

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	82381	PASS
75	95	30	60	51.1	198068	PASS
95	95	100	100	100.0	387648	PASS
96	95	5	9	7.0	26963	PASS
173	174	0.00	2	1.4	4410	PASS
174	95	50	120	84.1	325952	PASS
175	174	5	9	7.9	25888	PASS
176	174	95	101	95.1	309867	PASS
177	176	5	9	6.8	21149	PASS

GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\032417\P8682.D
Tune Time : 24 Mar 2017 11:43 pm

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\032417\P8683.D

825556 1358220 1254930

658522

File	Sample	Surrogate Recovery %				Internal Standard Responses		
P8683.D								
	CCV	110	112	110	105	825556	1358223	1254929
				658522				
P8684.D								
	LCS	114	116	112	106	821817	1299667	1218486
				647894				
P8685.D								
	VBLK	110	111	111	105	813041	1307187	1182813
				633277				
P8686.D								
	VBLK	108	114	111	101	797418	1289089	1199107
				605271				
P8687.D								
	R1702492-0	107	114	106	100	788883	1308889	1191804
				609102				
P8688.D								
	R1702492-0	110	112	111	99	804404	1291955	1176852
				603202				
P8689.D								
	R1702492-0	109	112	110	102	797771	1276997	1184292
				603747				
P8690.D								
	R1702492-0	110	116	111	103	790256	1267855	1193807
				588525				
P8691.D								
	R1702492-0	109	113	112	102	771661	1276131	1187319
				601175				
P8692.D								
	R1702492-0	110	114	111	103	792854	1277379	1193817
				599143				
P8693.D								
	R1702492-0	108	117	111	103	791322	1273618	1186826
				587769				
P8694.D								
	R1702492-0	109	114	110	102	779556	1286645	1169249
				595669				
P8695.D								
	R1702492-0	108	110	109	102	789269	1287536	1164620
				601747				
P8696.D								

1st 03/27/17
2nd 03/28/17

```
         R1702492-0  107  115  112  100      785028    1285871    1179059
                                597366
-------------------------------------------------------------------------
P8697.D
         R1702492-0  108  113  110   99      796873    1270142    1158646
                                582818
-------------------------------------------------------------------------
P8698.D
         R1702492-0  111  113  111  102      783652    1315884    1217467
                                630342
-------------------------------------------------------------------------
P8699.D
         R1702492-0  110  108  108  101      826987    1359298    1228220
                                657959
-------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

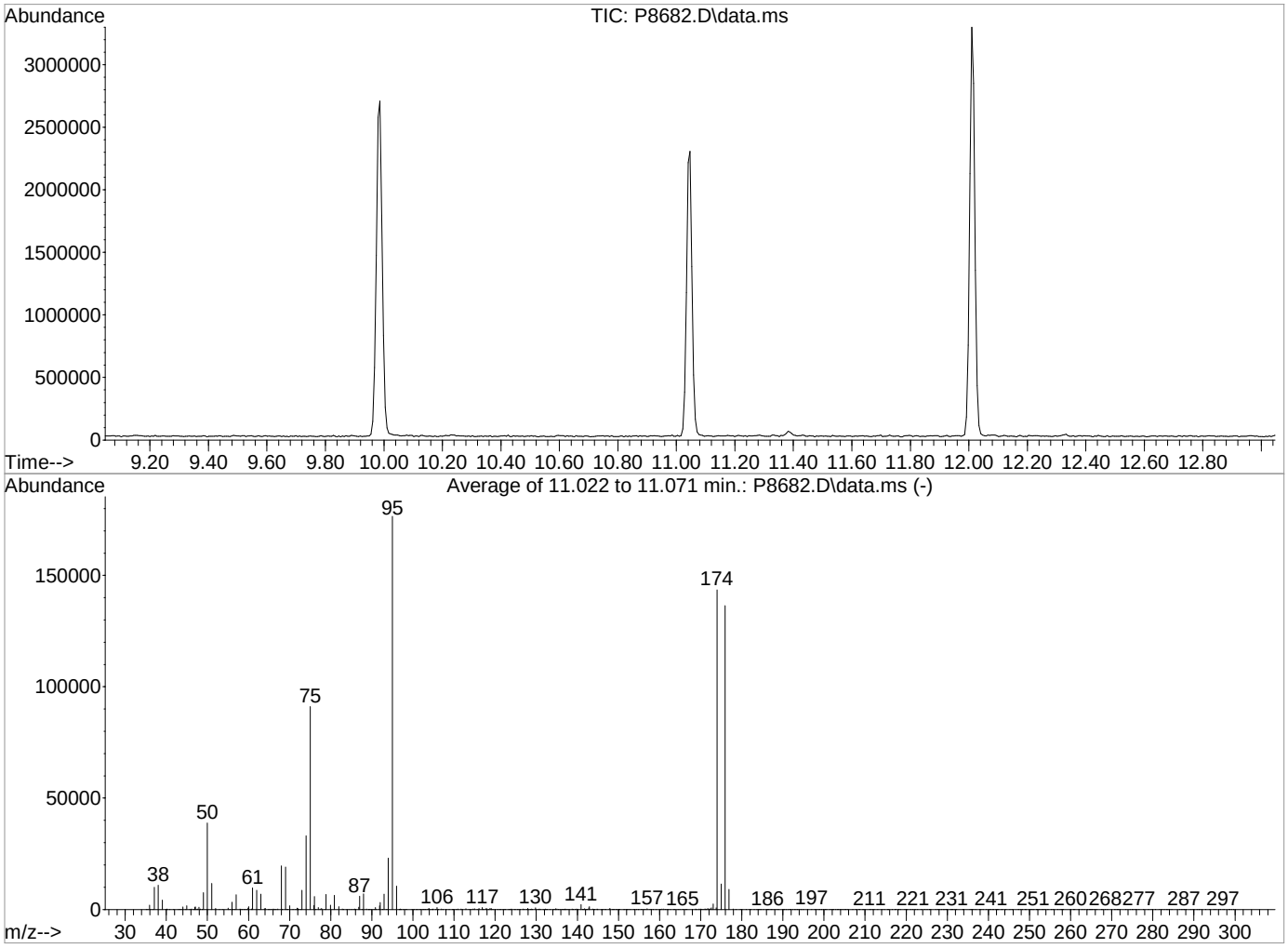
    Created: Mon Mar 27 09:58:43 2017  MSVOA-12
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1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8682.D
Acq On : 24 Mar 2017 11:43 pm
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Thu Jan 05 10:50:17 2017



Spectrum Information: Average of 11.022 to 11.071 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	38882	PASS
75	95	30	60	51.6	91100	PASS
95	95	100	100	100.0	176573	PASS
96	95	5	9	6.0	10515	PASS
173	174	0.00	2	1.7	2423	PASS
174	95	50	120	81.3	143536	PASS
175	174	5	9	7.9	11391	PASS
176	174	95	101	95.1	136460	PASS
177	176	5	9	6.6	9019	PASS

GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\032717\P8703.D
Tune Time : 27 Mar 2017 10:21 am

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\032717\P8704.D

827804 1361420 1300180

671666

File	Sample	Surrogate Recovery %				Internal Standard Responses		
P8704.D								
	CCV	109	112	111	108	827804	1361424	1300183
				671666				
P8705.D								
	LCS	110	112	112	104	853728	1376536	1282827
				677082				
P8706.D								
	VBLK	108	112	110	102	849956	1356909	1232849
				637898				
P8707.D								
	VBLK	107	111	111	101	813330	1336190	1222010
				633229				
P8708.D								
	R1702492-0	105	117	110	104	808275	1338529	1239415
				612205				
P8709.D								
	R1702492-0	108	110	109	101	820501	1342165	1224346
				612755				
P8710.D								
	R1702492-0	107	111	109	104	813262	1316154	1215470
				617446				
P8711.D								
	R1702492-0	108	114	112	103	810944	1299850	1216761
				614490				
P8712.D								
	R1701840-0	108	112	109	101	790807	1313732	1201751
				617978				
P8713.D								
	R1702312-0	105	105	110	100	815763	1315230	1200661
				590713				
P8714.D								
	R1702312-0	109	107	111	98	824331	1311916	1167183
				590548				
P8715.D								
	R1702312-0	109	113	109	104	772217	1292560	1196383
				605913				
P8716.D								
	R1702312-0	105	109	109	99	792033	1288265	1181485
				599574				
P8717.D								

1st 03/28/17
2nd 03/28/17

```
         R1702312-0  109  113  110  100      789694    1274506    1187867
                                601626
-------------------------------------------------------------------------
P8718.D
         R1701840-0  109  113  110  100      774157    1281903    1174955
                                606394
-------------------------------------------------------------------------
P8719.D
         R1701840-0  111  115  105  100      798681    1263214    1182974
                                584453
-------------------------------------------------------------------------
P8720.D
         R1701840-0  107  111  109  101      804131    1274402    1181085
                                592213
-------------------------------------------------------------------------
P8721.D
         R1701840-0  110  114  109  101      771916    1274379    1162947
                                614584
-------------------------------------------------------------------------
P8722.D
         R1701840-0  107  109  107  102      768882    1291130    1176956
                                593420
-------------------------------------------------------------------------
P8723.D
         R1701840-0  111  111  111  107      810621    1297176    1212922
                                655889
-------------------------------------------------------------------------
P8724.D
         R1701840-0  111  108  112  107      818915    1319338    1244928
                                651061
-------------------------------------------------------------------------
P8725.D
         CLOSING CC  109  111  111  106      822048    1341220    1290978
                                655476
-------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

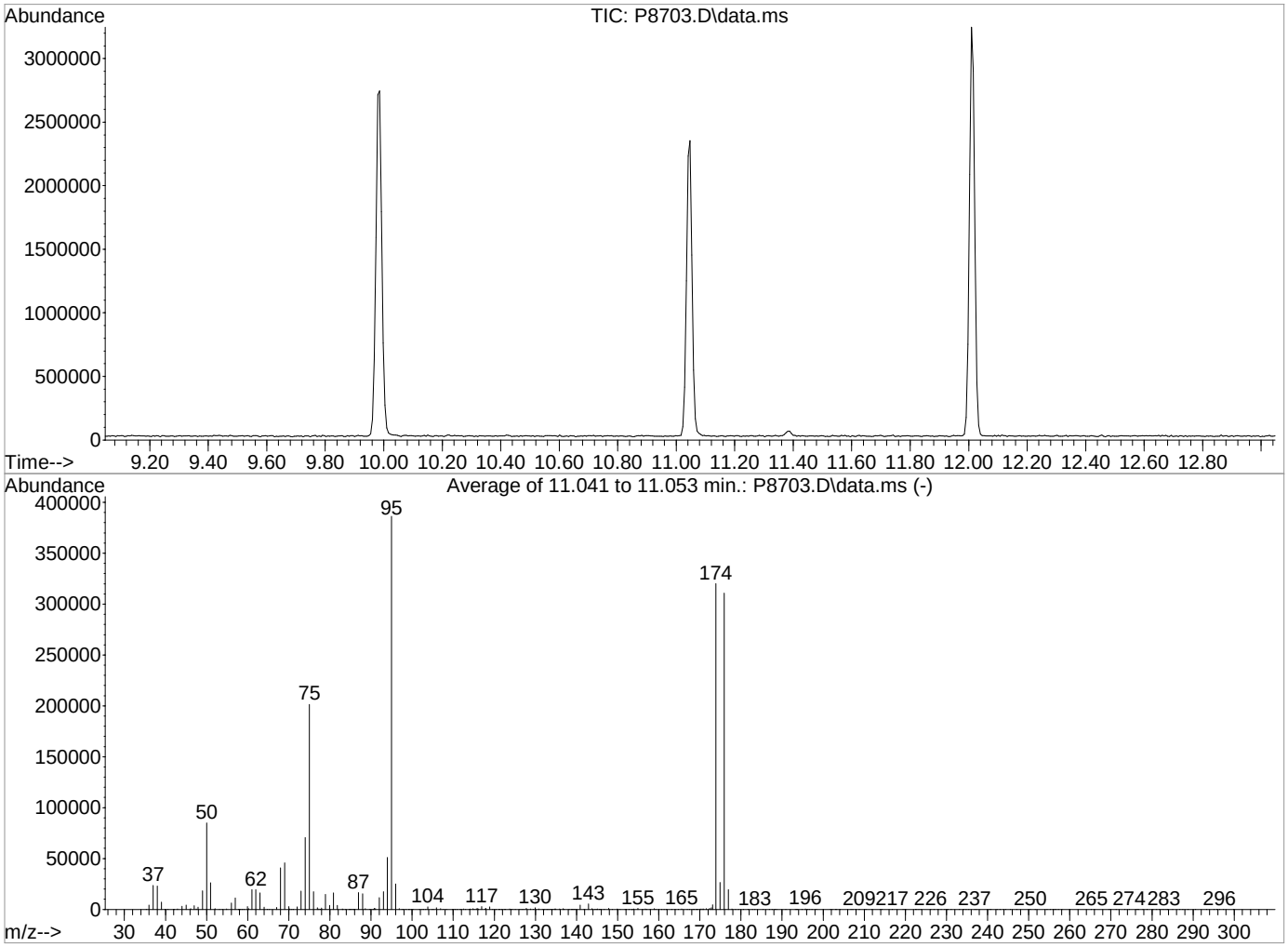
    Created: Tue Mar 28 09:29:37 2017  MSVOA-12
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1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032717\
Data File : P8703.D
Acq On : 27 Mar 2017 10:21 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Thu Jan 05 10:50:17 2017



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1623

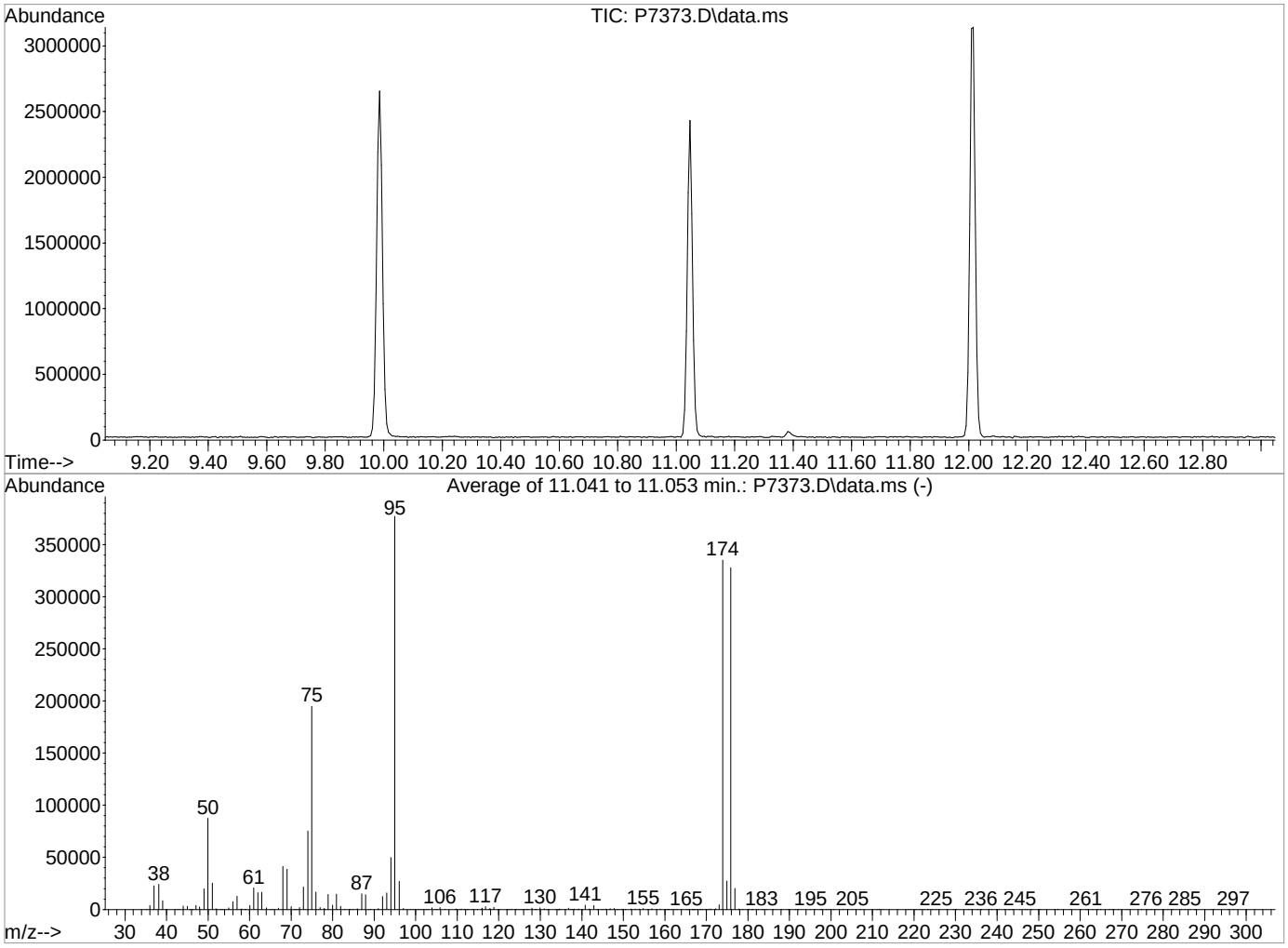
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	85003	PASS
75	95	30	60	52.1	201365	PASS
95	95	100	100	100.0	386411	PASS
96	95	5	9	6.5	25024	PASS
173	174	0.00	2	1.4	4608	PASS
174	95	50	120	82.9	320213	PASS
175	174	5	9	8.3	26440	PASS
176	174	95	101	97.1	310912	PASS
177	176	5	9	6.3	19458	PASS

1st 01/04/17
2nd 01/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7373.D
Acq On : 4 Jan 2017 12:23 pm
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Wed Jan 04 10:42:28 2017



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1624

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	87505	PASS
75	95	30	60	51.7	195029	PASS
95	95	100	100	100.0	377278	PASS
96	95	5	9	7.1	26960	PASS
173	174	0.00	2	1.3	4364	PASS
174	95	50	120	88.9	335275	PASS
175	174	5	9	8.1	27277	PASS
176	174	95	101	97.7	327723	PASS
177	176	5	9	6.1	20112	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7374.D
Acq On : 4 Jan 2017 12:53 pm
Operator : K.Ruest
Sample : IBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 12:12:09 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

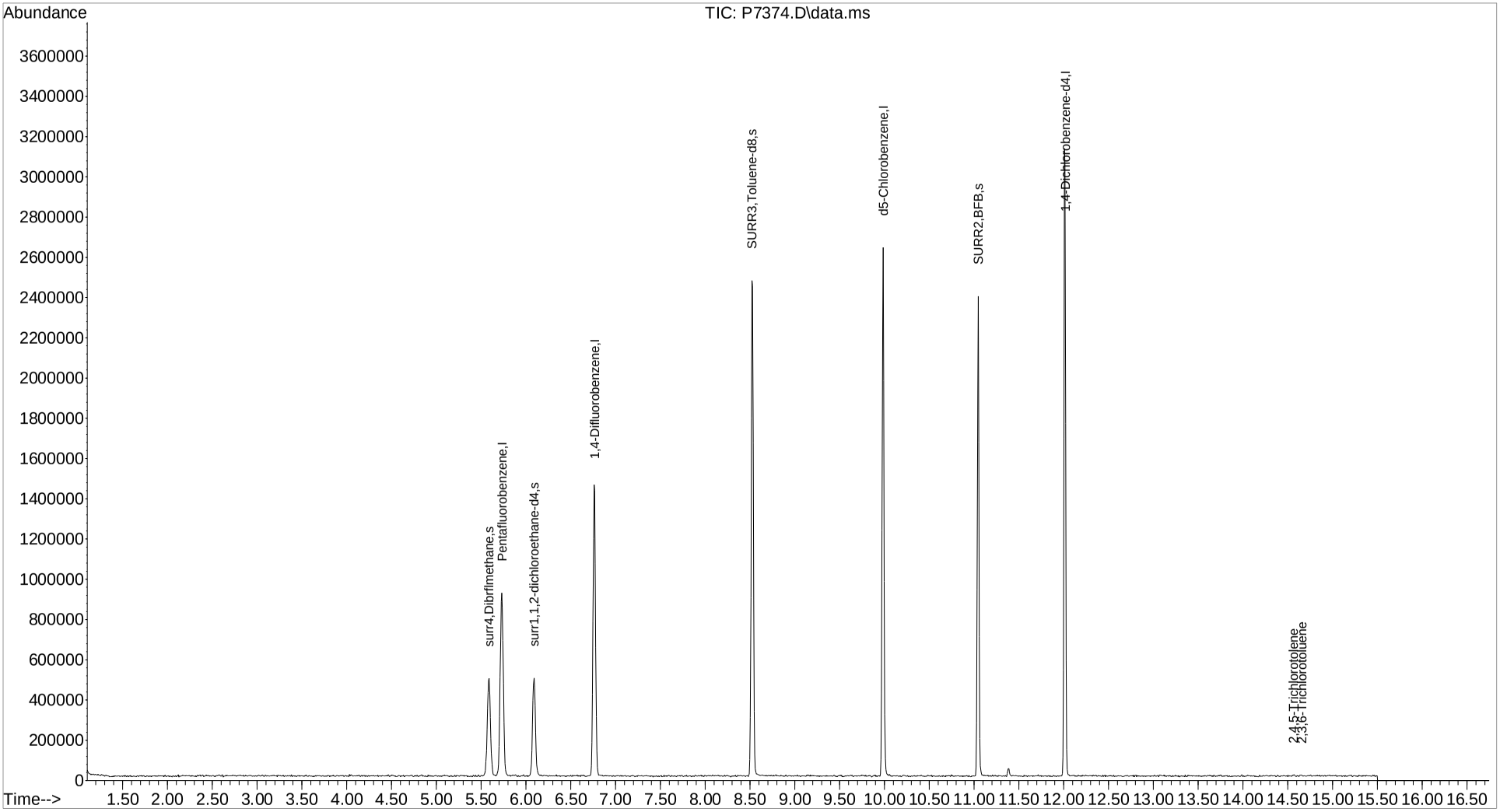
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	765153	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1218402	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1180292	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	629737	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.590	113	361297	54.95	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.90%			
48) surr1,1,2-dichloroetha...	6.090	65	391877	53.68	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.36%			
65) SURR3,Toluene-d8	8.523	98	1503931	55.33	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.66%			
70) SURR2,BFB	11.047	95	574768	54.57	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.14%			
Target Compounds						Qvalue
119) 2,4,5-Trichlorotolene	14.564	159	1534	0.29	ppb	# 73
120) 2,3,6-Trichlorotoluene	14.656	159	1628	0.37	ppb	# 71

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7374.D
Acq On : 4 Jan 2017 12:53 pm
Operator : K.Ruest
Sample : IBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 12:12:09 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

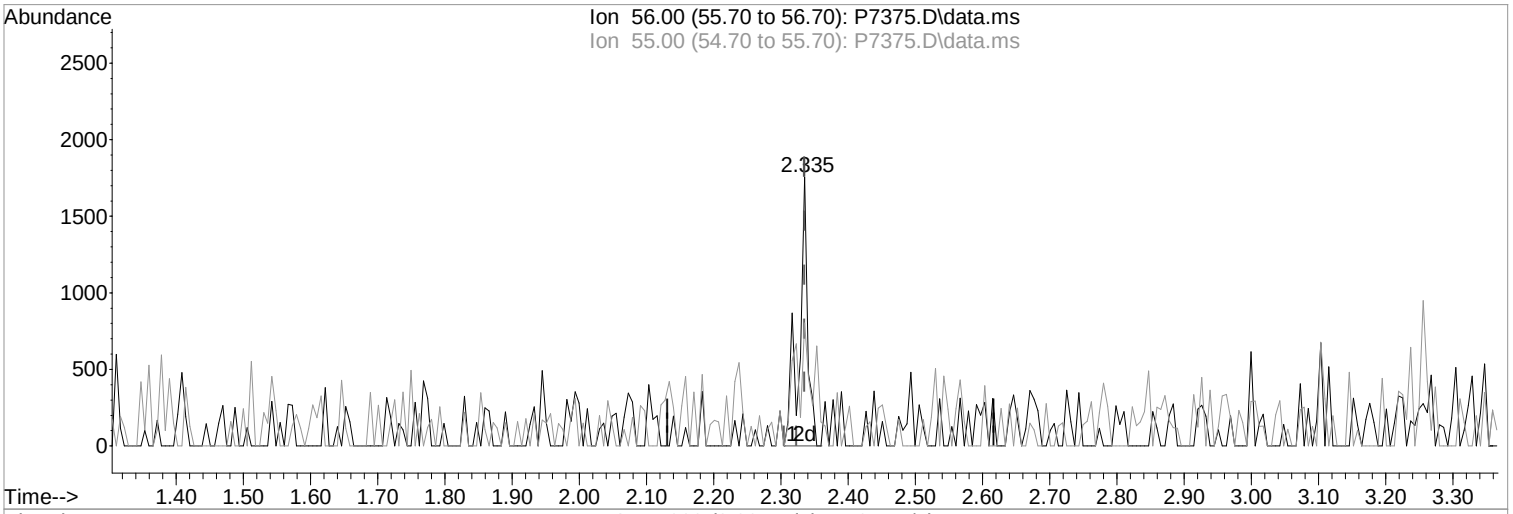


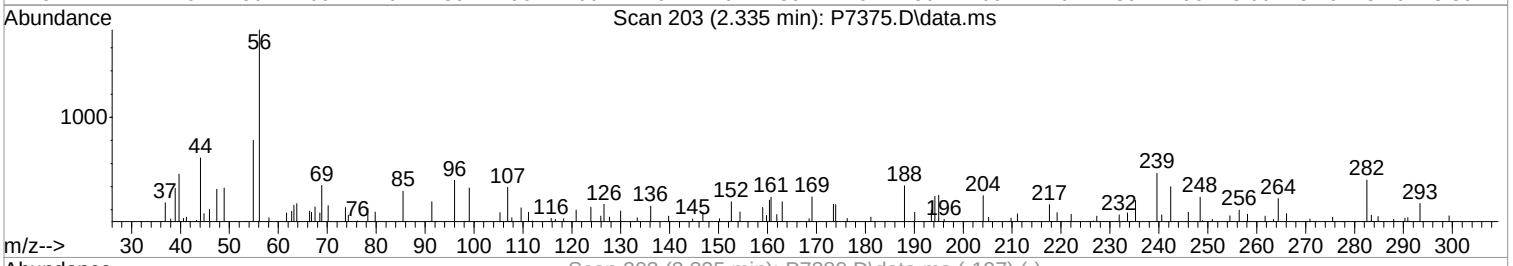
1st 01/05/17
2nd 01/05/17

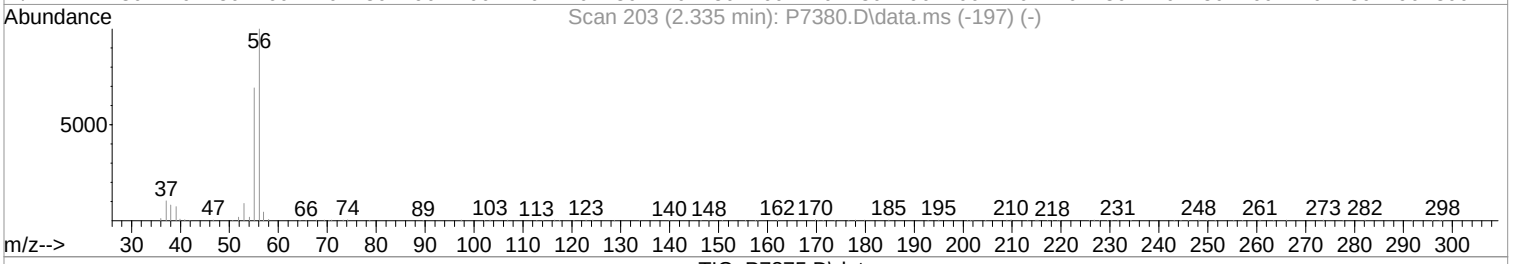
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(12) Acrolein

2.335min (+0.000) 2.71 ppb m

response 1586

Ion	Exp%	Act%
56.00	100	100
55.00	69.60	45.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

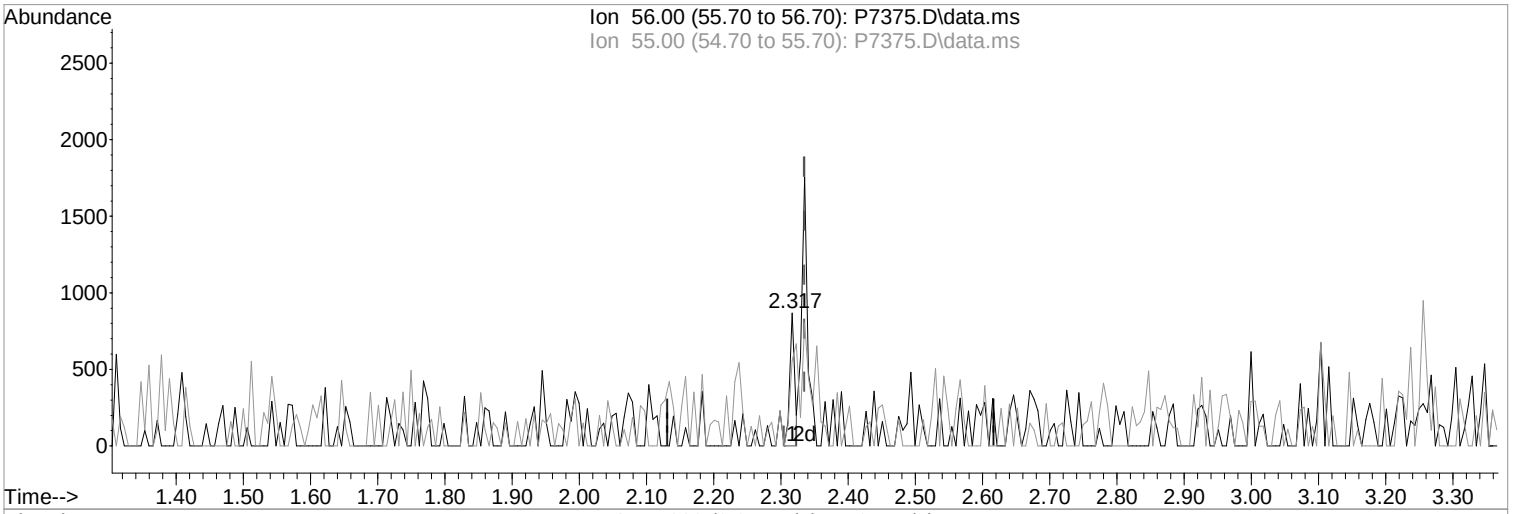
Split Peak

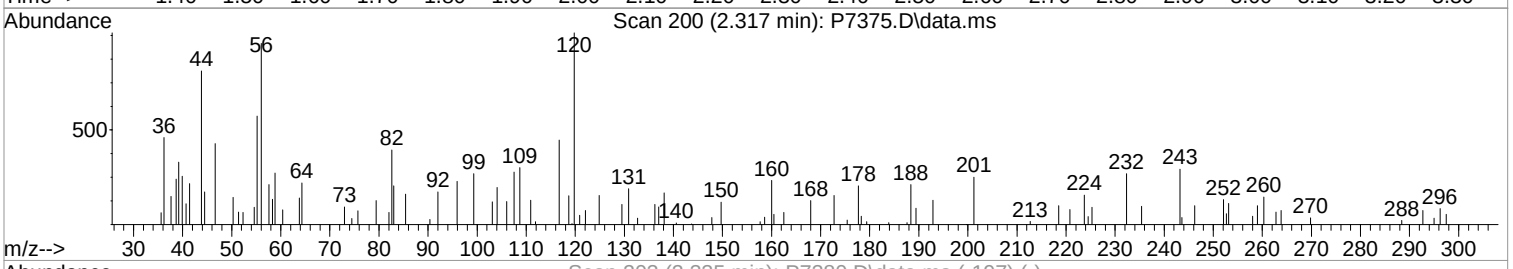
01/05/17

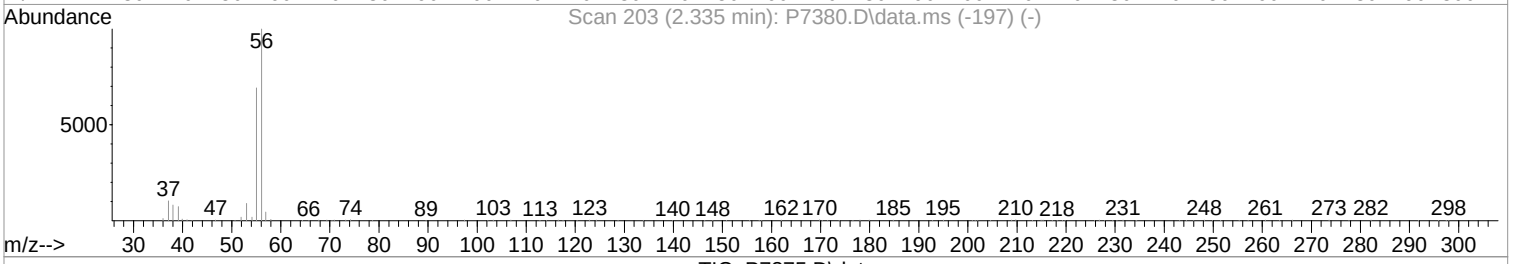
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(12) Acrolein

2.317min (-0.018) 0.77 ppb

response 448

Ion	Exp%	Act%
56.00	100	100
55.00	69.60	64.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

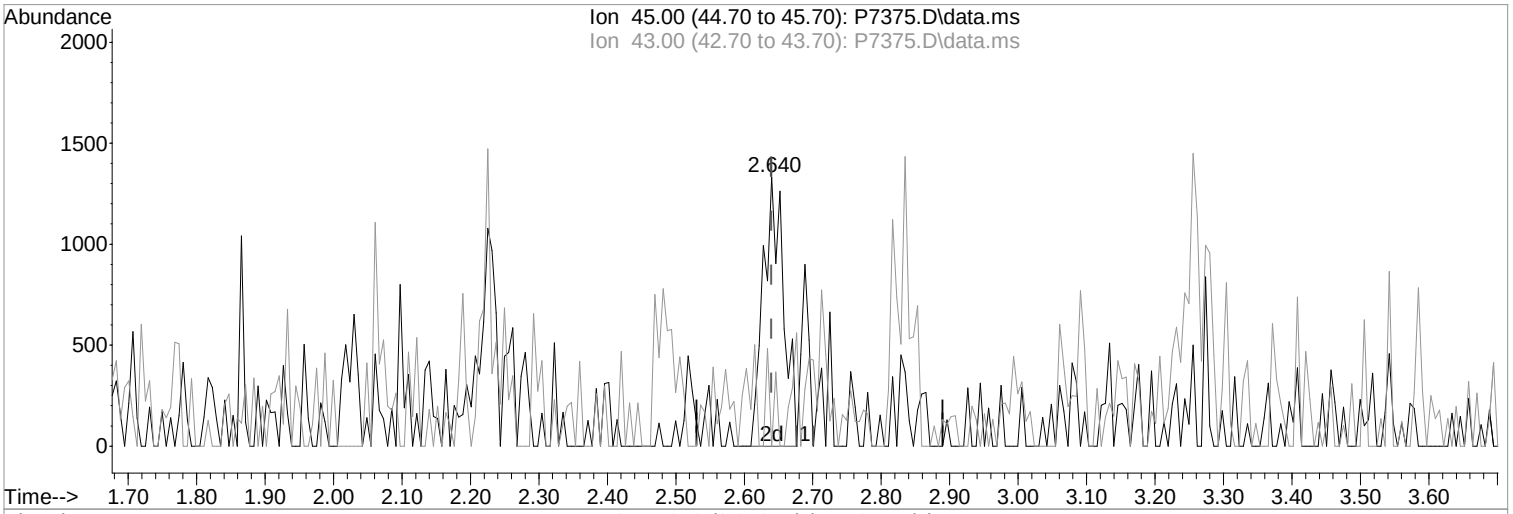
Before

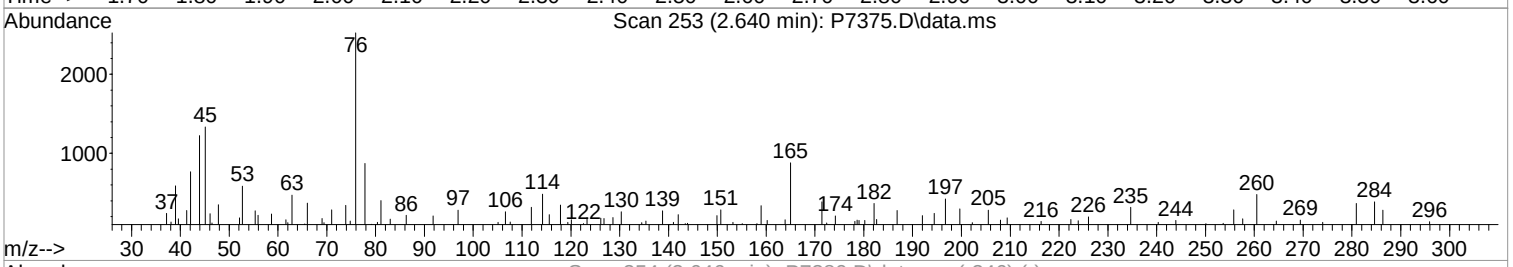
01/05/17

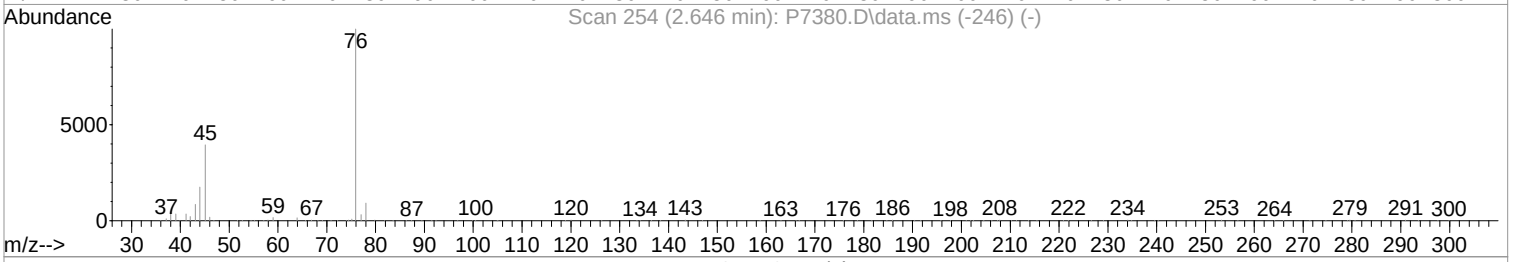
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(16) 2-Propanol

2.640min (+0.000) 15.15 ppb m

response 2729

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

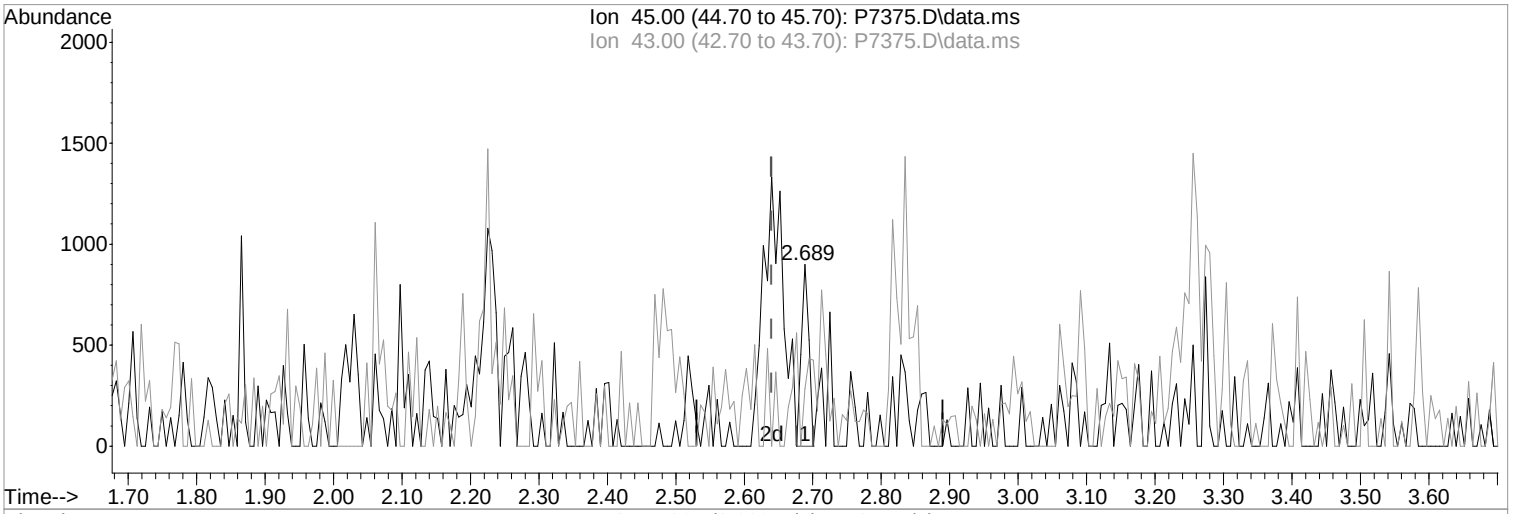
Wrong peak selected.

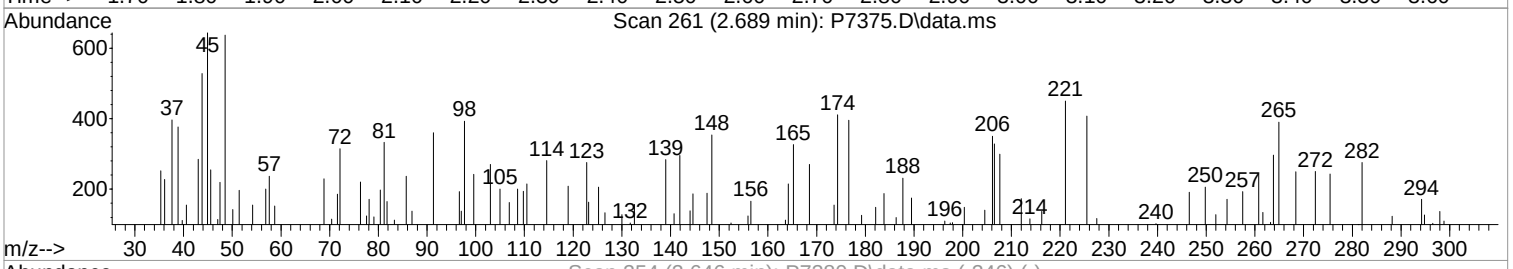
01/05/17

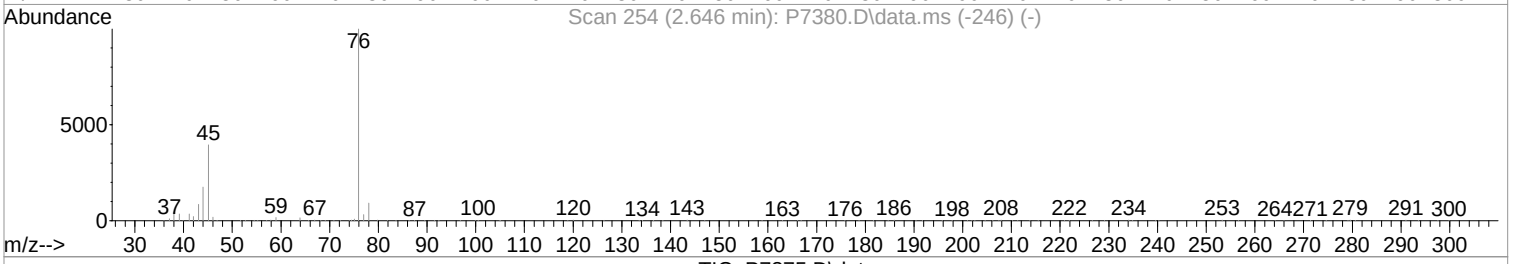
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(16) 2-Propanol

2.689min (+0.049) 3.81 ppb

response 686

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	31.70
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

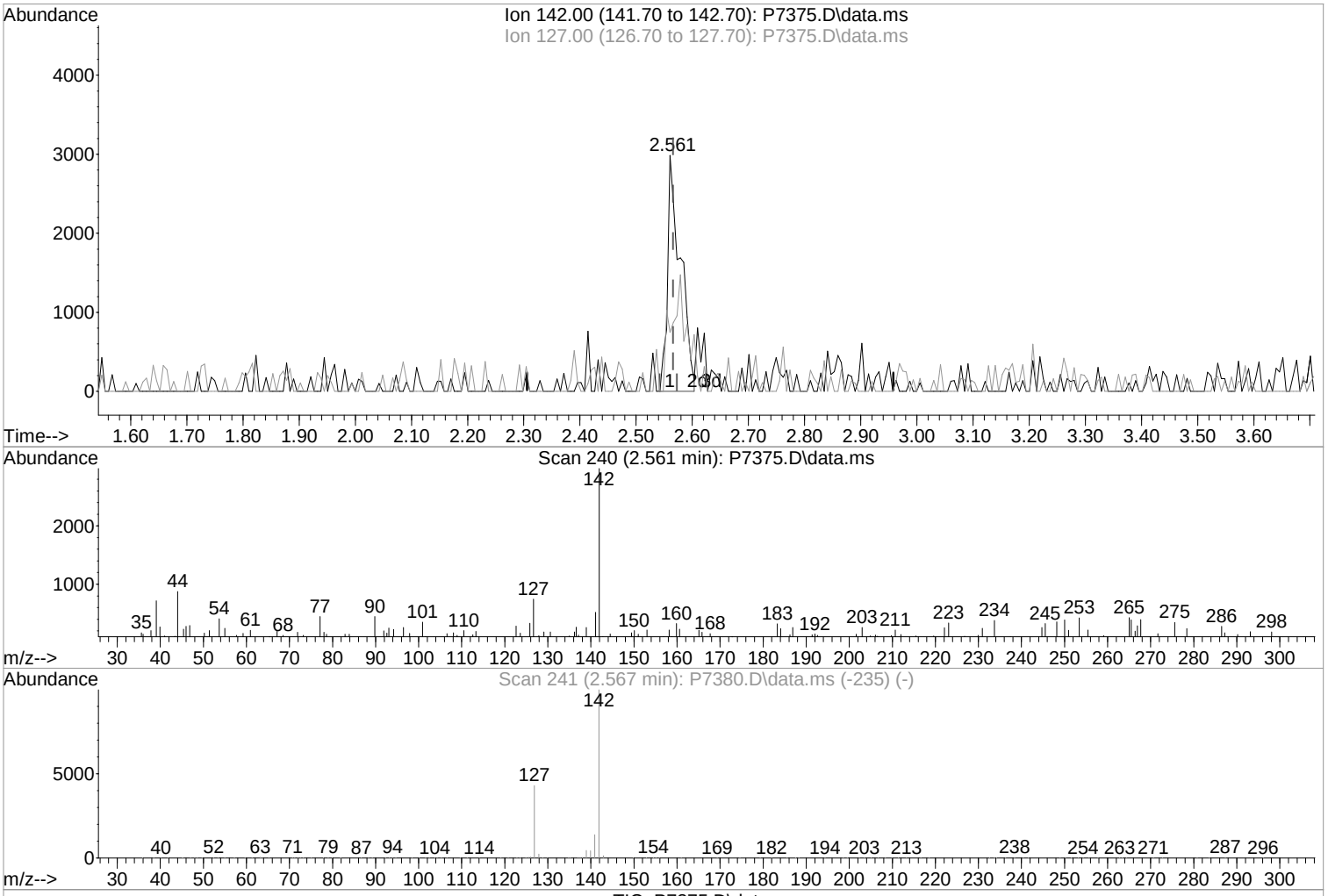
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(17) Iodomethane

2.561min (-0.006) 0.60 ppb m

response 4797

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	24.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

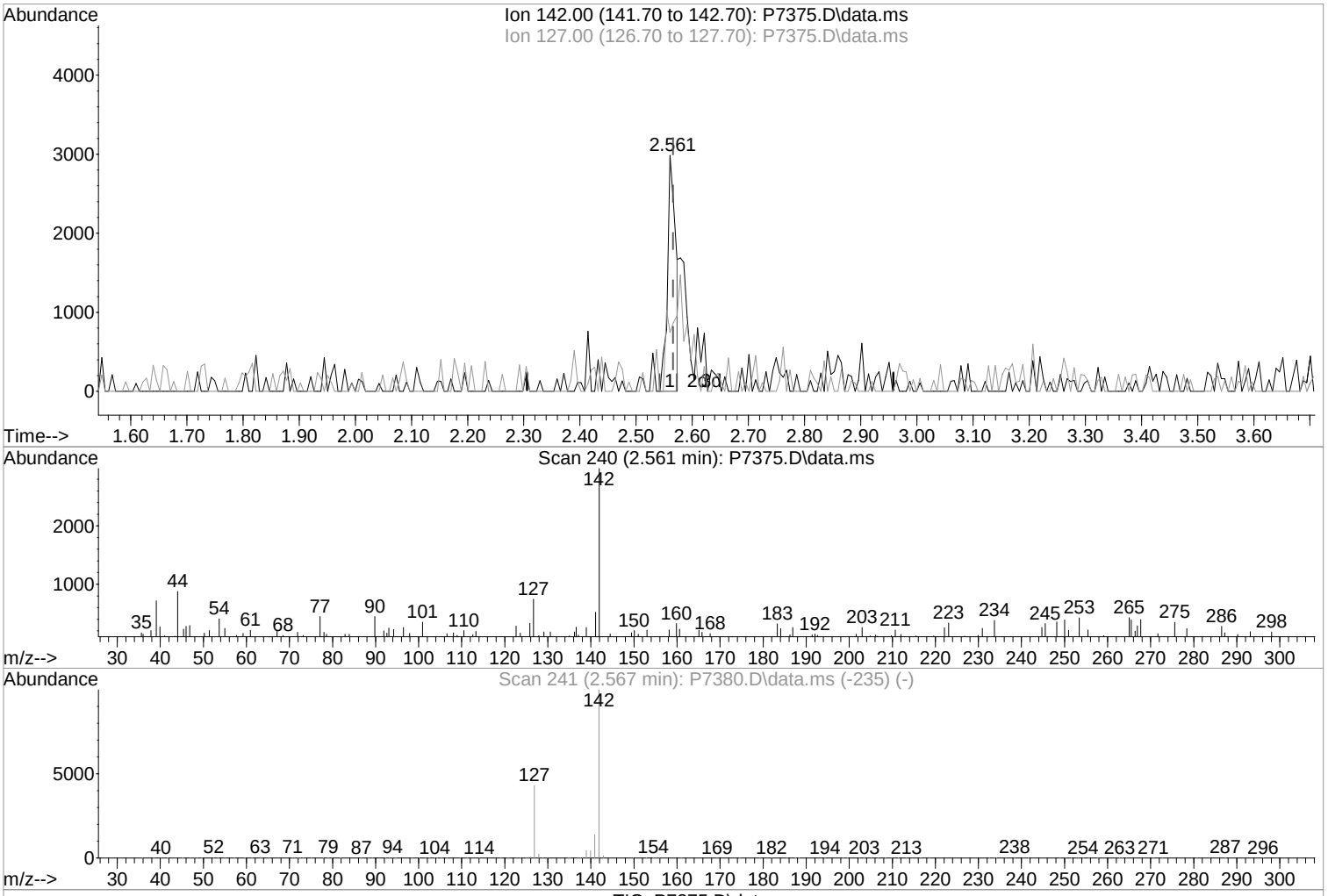
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(17) Iodomethane

2.561min (-0.006) 0.38 ppb

response 3040

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	24.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

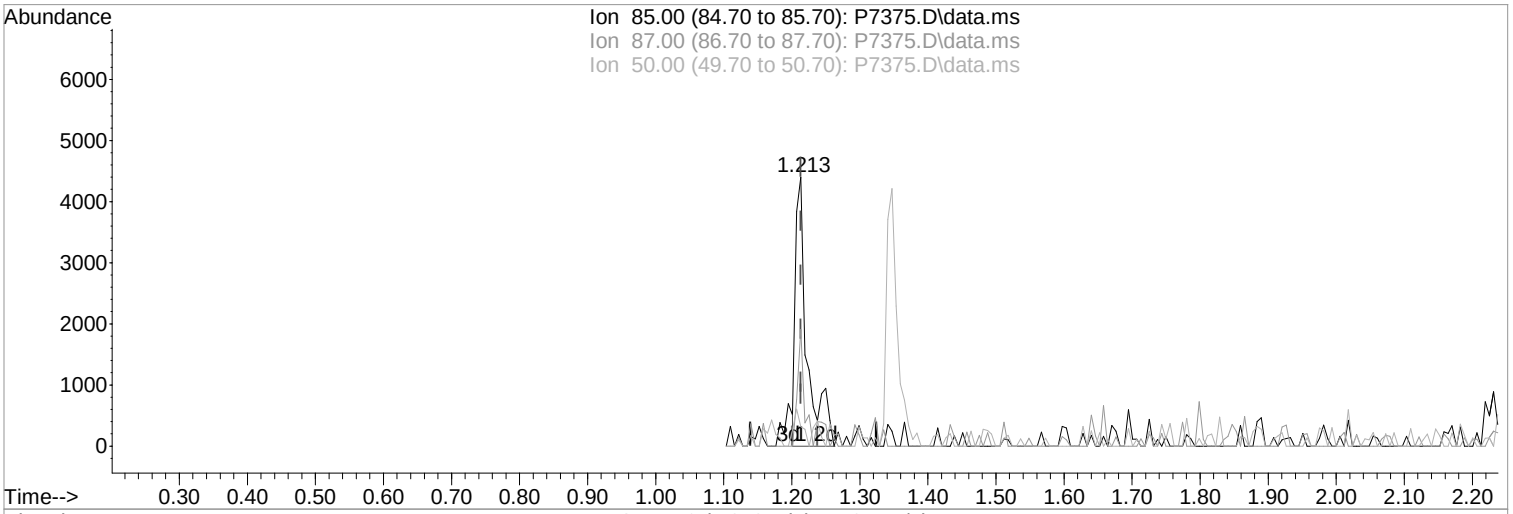
01/05/17

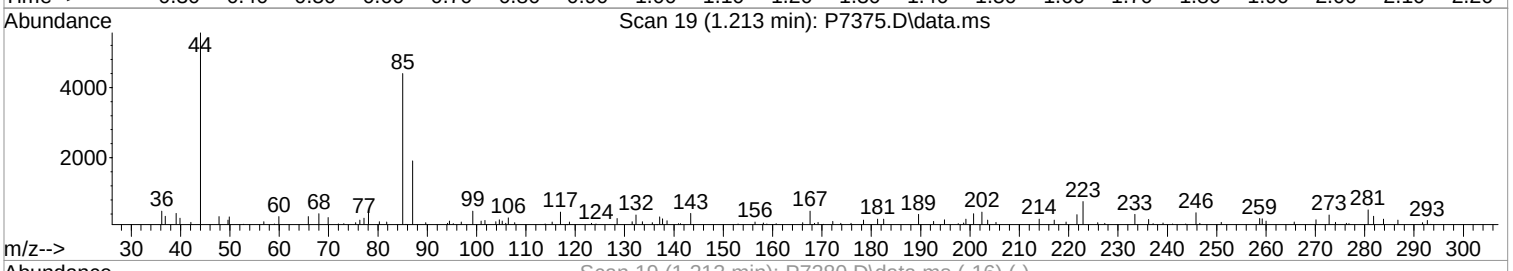
1st 01/05/17
2nd 01/05/17

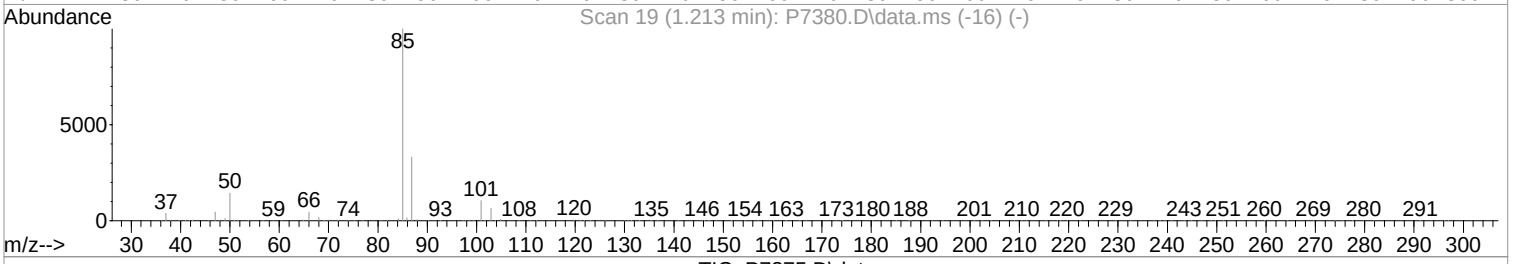
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (+0.000) 0.55 ppb m

response 5216

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	43.34
50.00	14.20	7.22
0.00	0.00	0.00

Manual Integration:

After

Split Peak

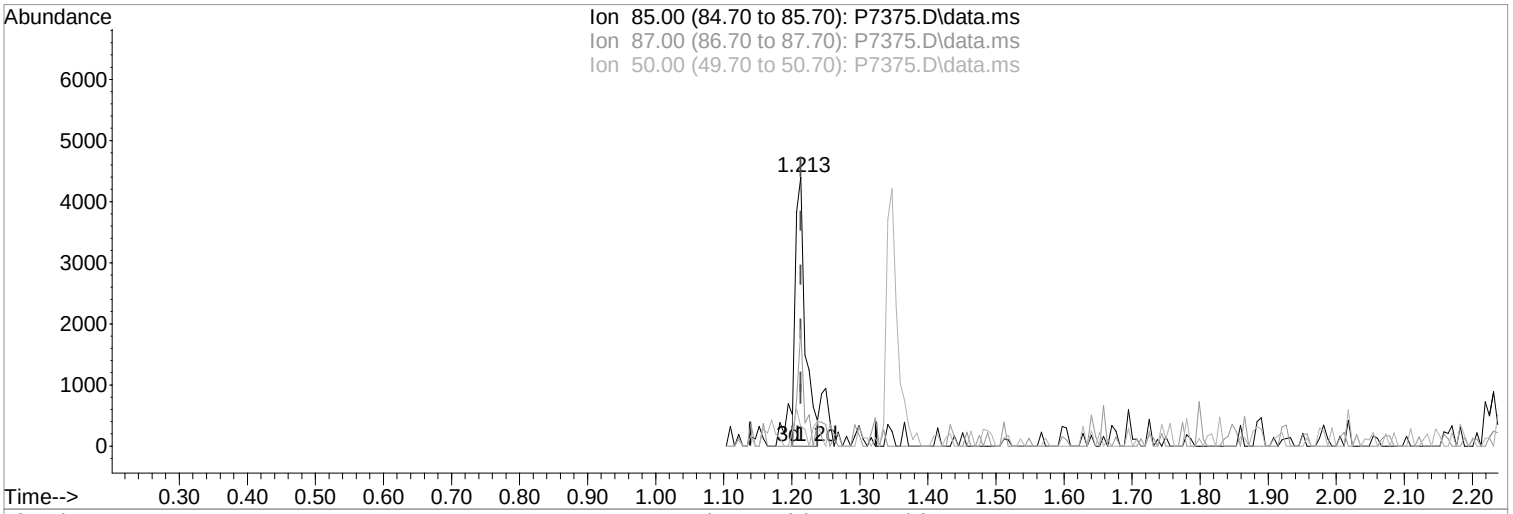
01/05/17

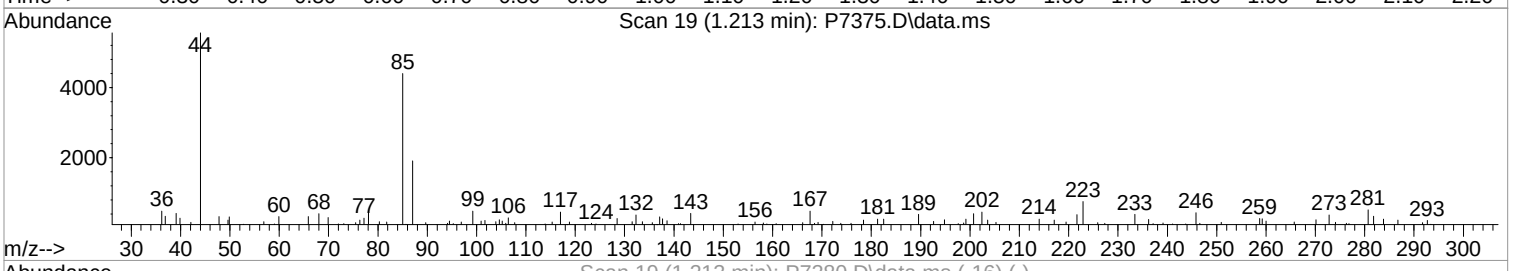
1st 01/05/17
2nd 01/05/17

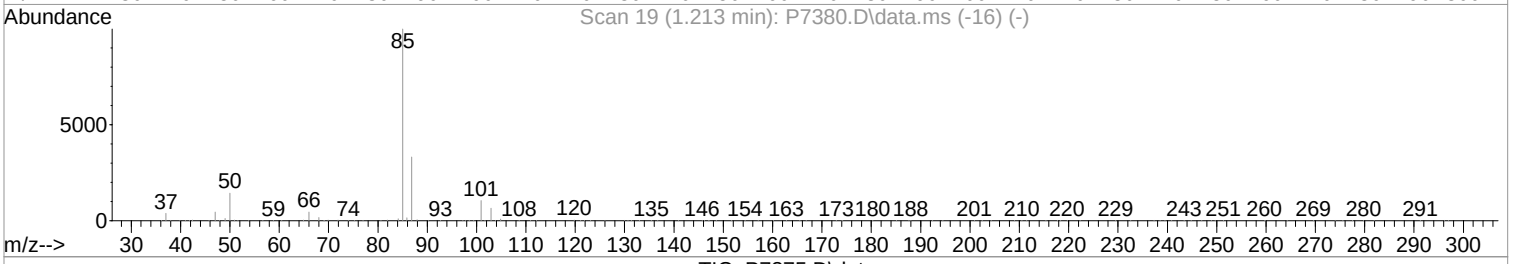
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (+0.000) 0.47 ppb

response 4404

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	42.34
50.00	14.20	7.06
0.00	0.00	0.00

Manual Integration:

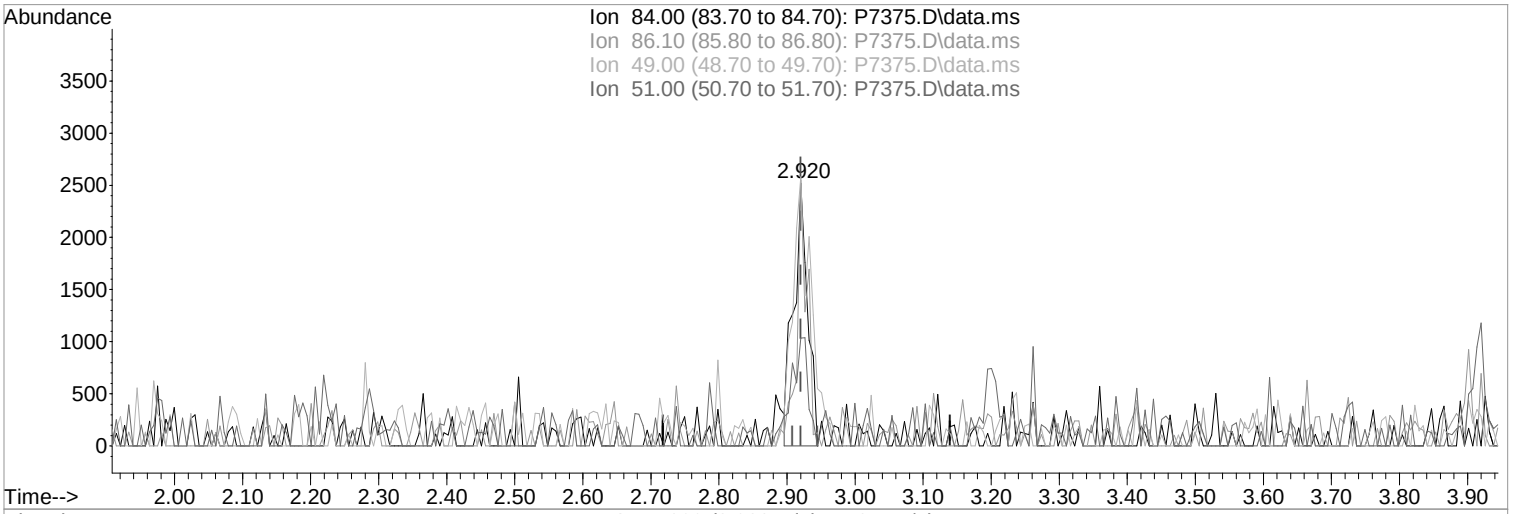
Before

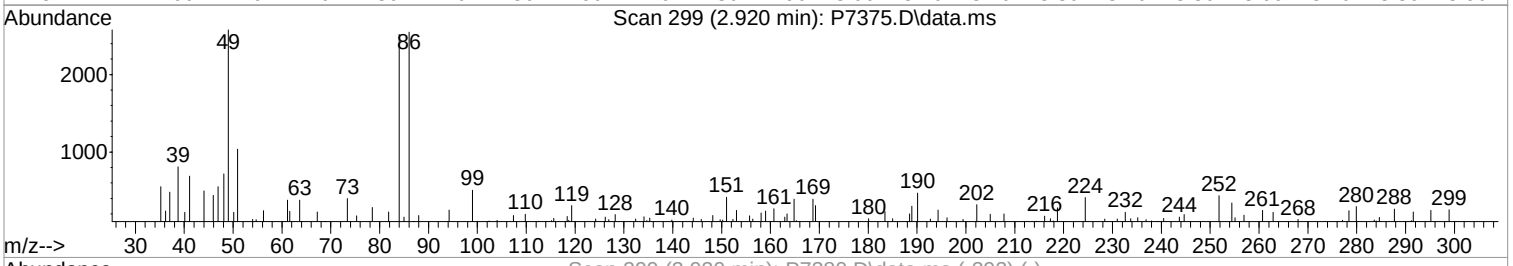
01/05/17

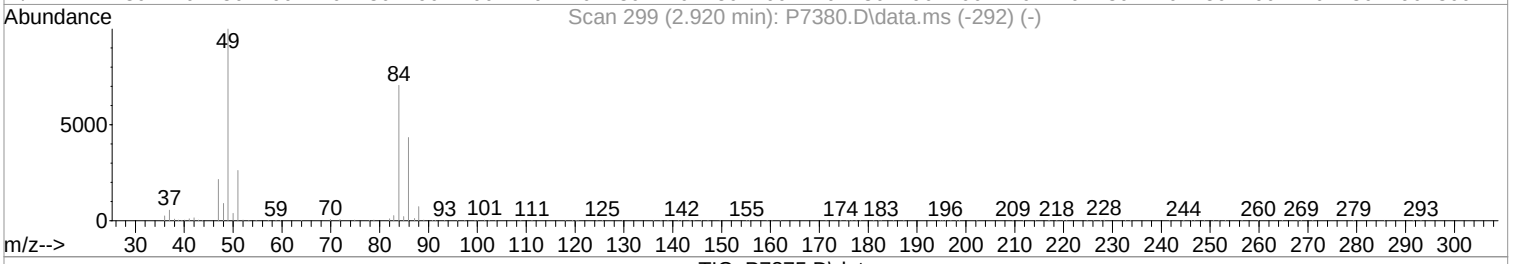
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(22) Methylene Chloride (P)

2.920min (+0.000) 0.61 ppb m

response 3649

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	101.19#
49.00	142.00	102.34#
51.00	37.20	41.07

Manual Integration:

After

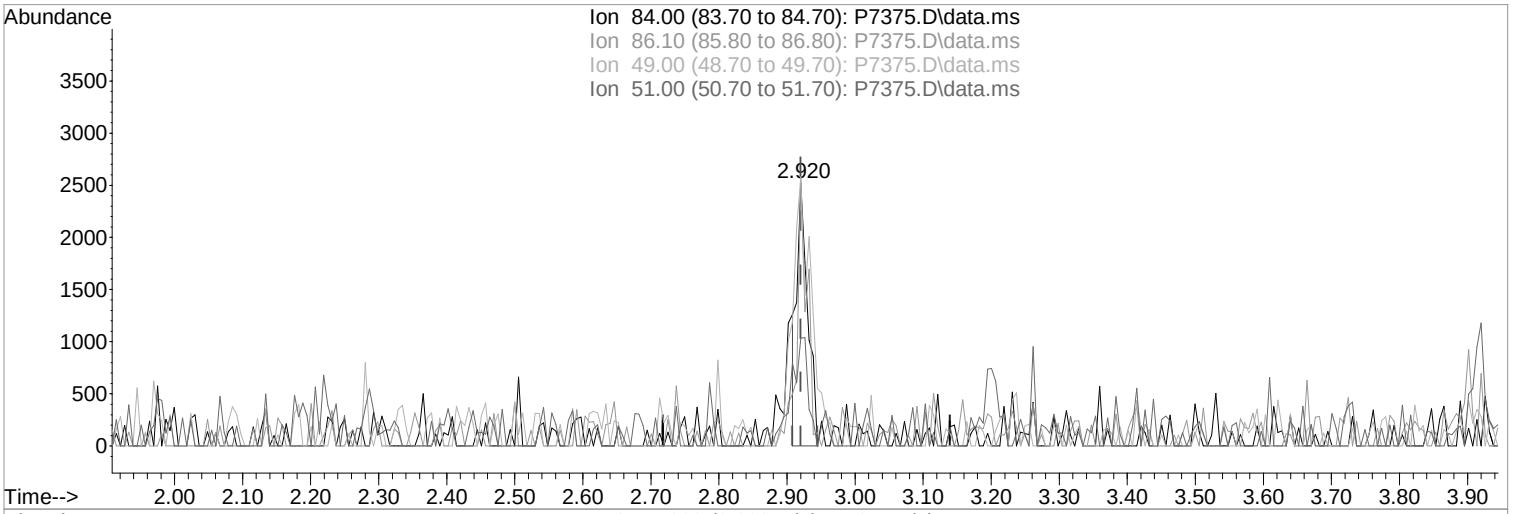
Split Peak

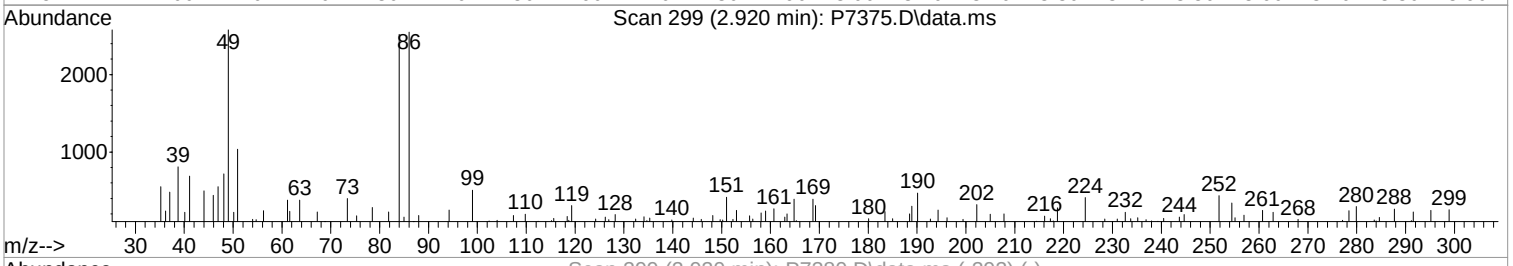
01/05/17

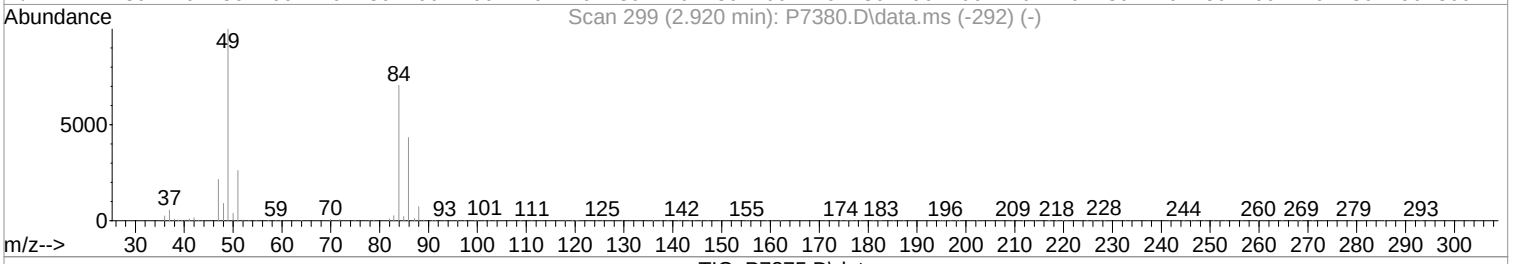
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(22) Methylene Chloride (P)

2.920min (+0.000) 0.46 ppb

response 2756

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	101.19#
49.00	142.00	102.34#
51.00	37.20	41.07

Manual Integration:

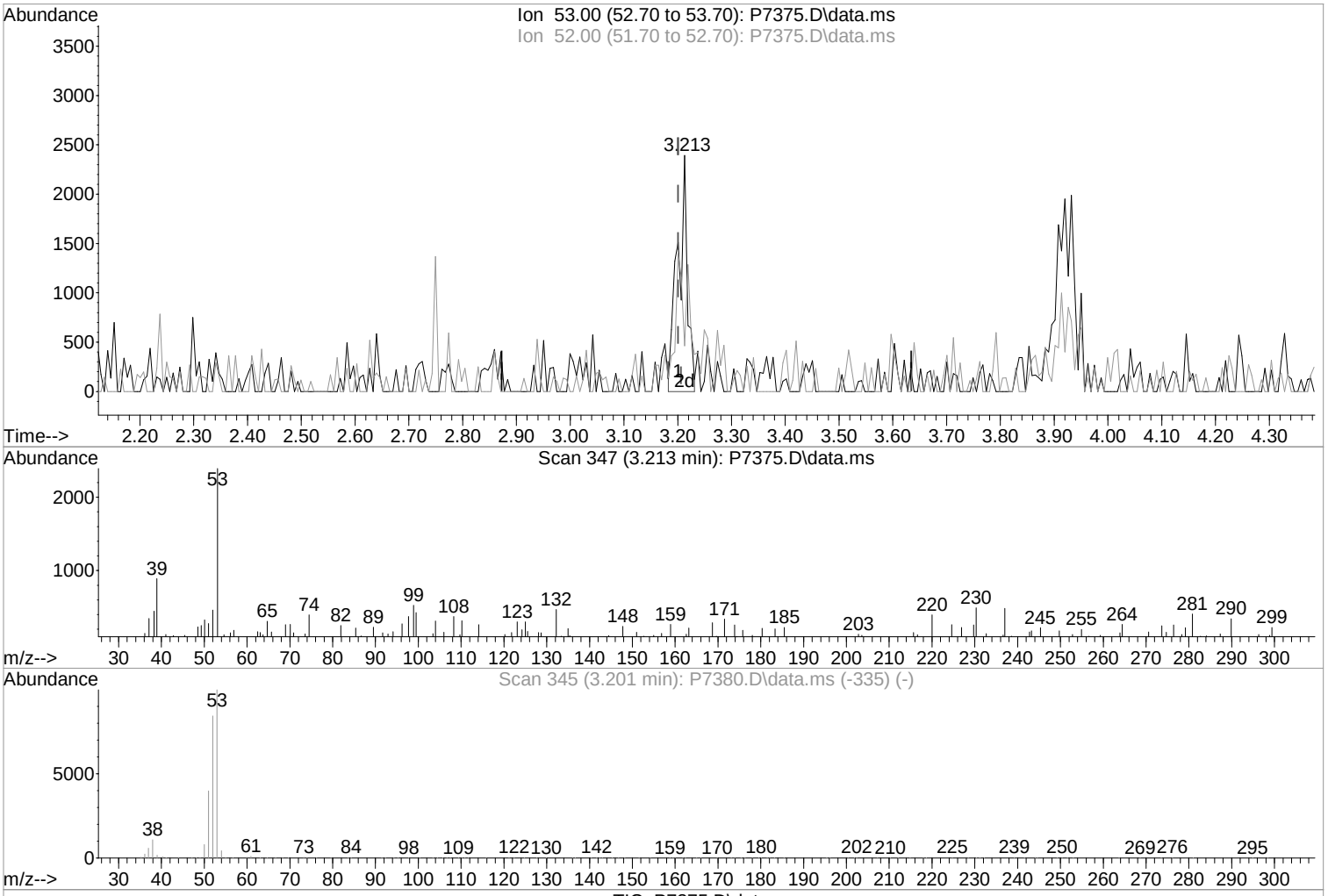
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(24) Acrylonitrile

3.213min (+0.012) 2.23 ppb m

response 3000

Ion	Exp%	Act%
53.00	100	100
52.00	84.30	19.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

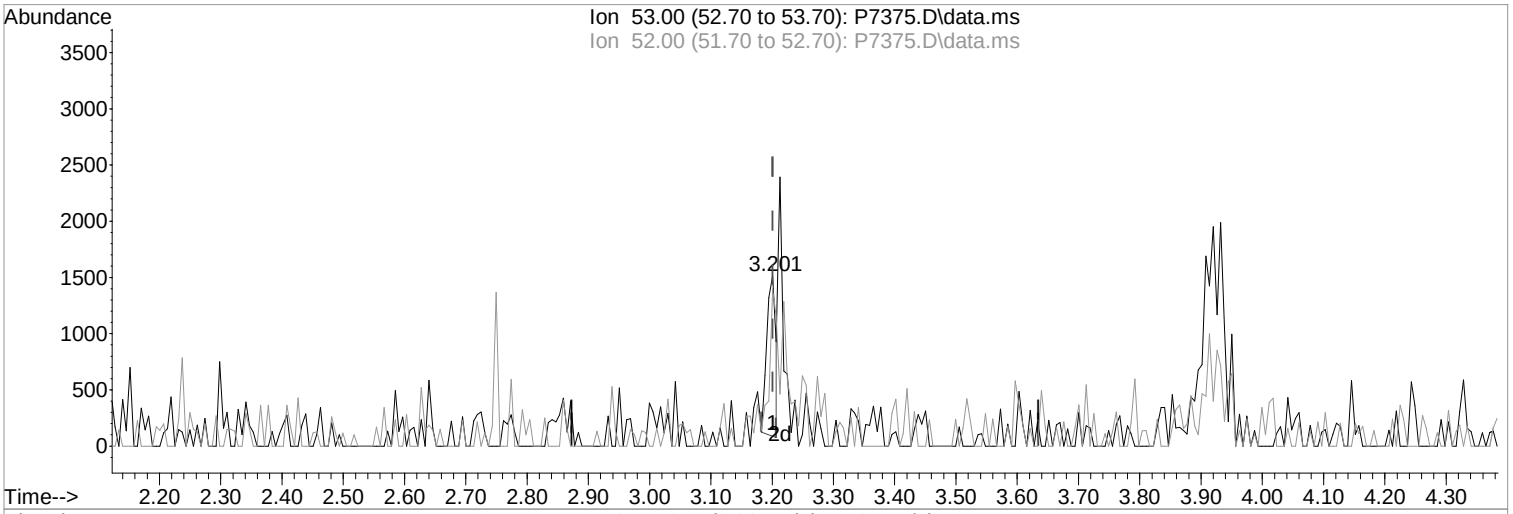
Split Peak

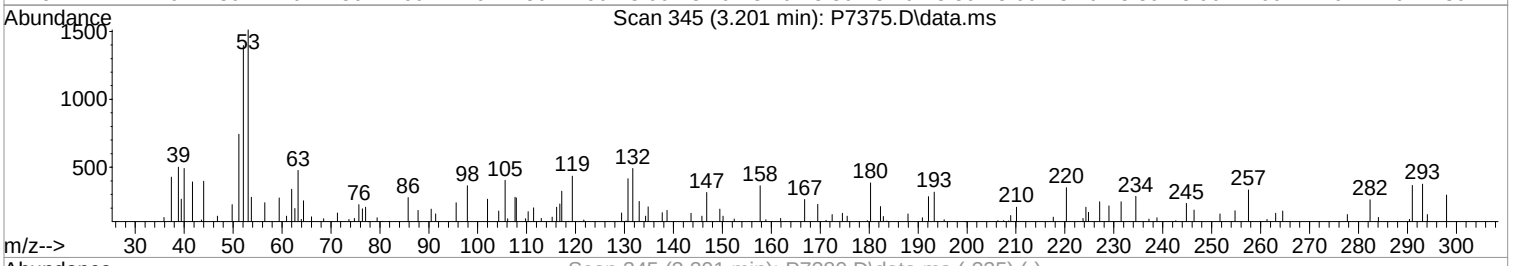
01/05/17

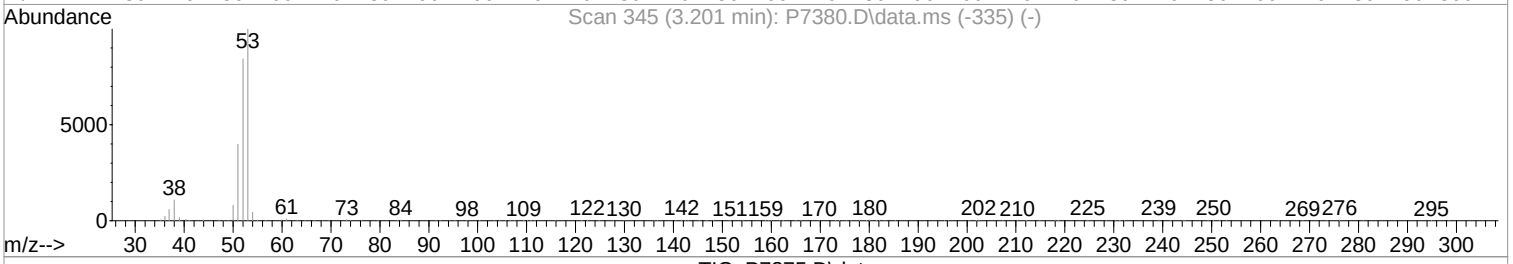
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(24) Acrylonitrile

3.201min (+0.000) 1.08 ppb

response 1457

Ion	Exp%	Act%
53.00	100	100
52.00	84.30	77.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

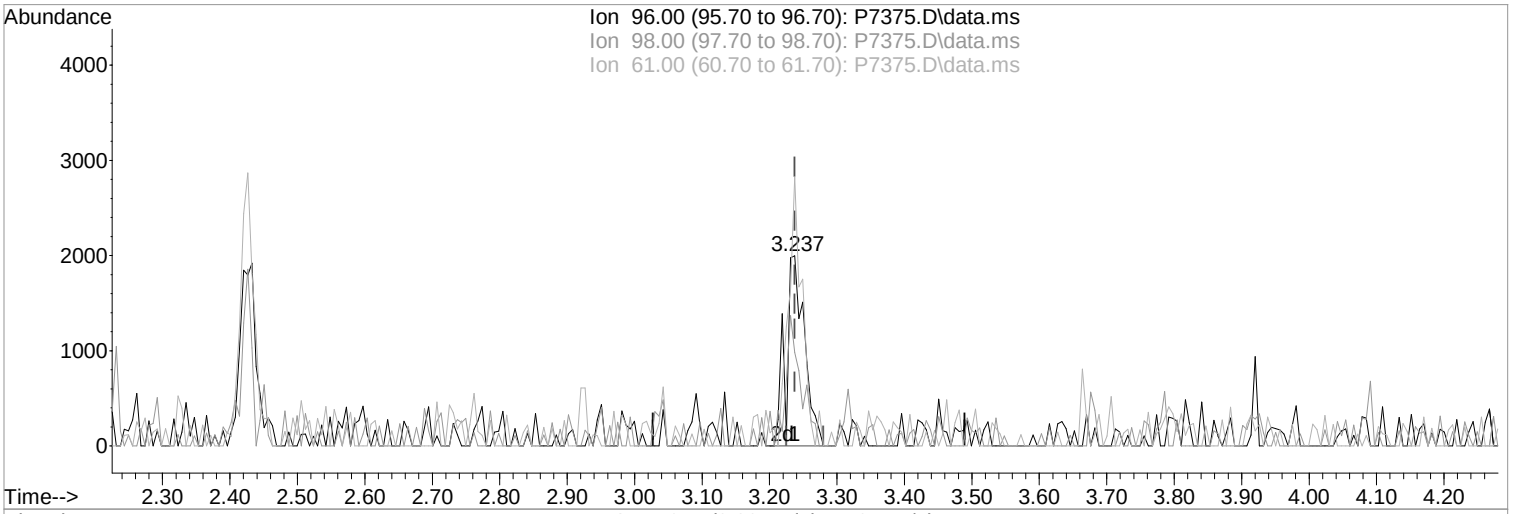
Before

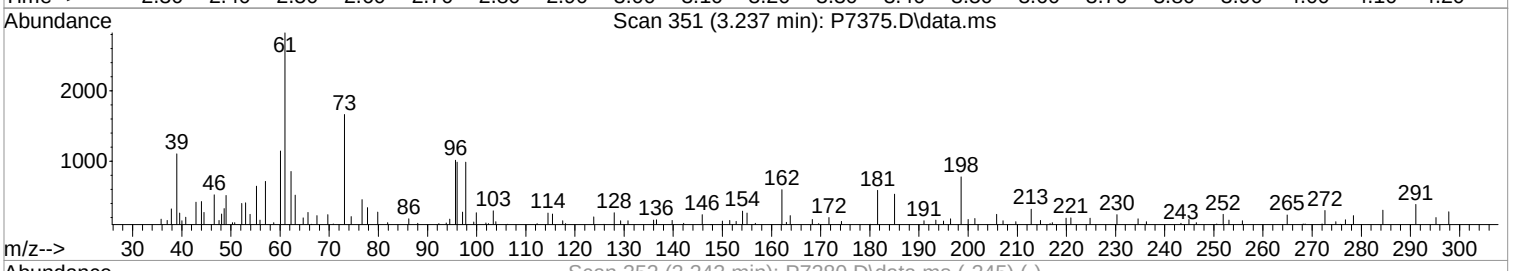
01/05/17

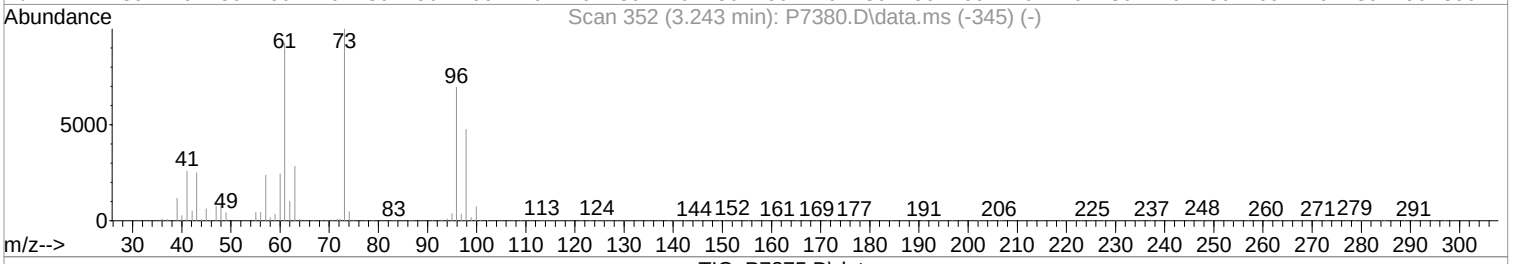
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (+0.000) 0.60 ppb m

response 3799

Ion	Exp%	Act%
96.00	100	100
98.00	68.30	96.94#
61.00	133.80	278.60#
0.00	0.00	0.00

Manual Integration:

After

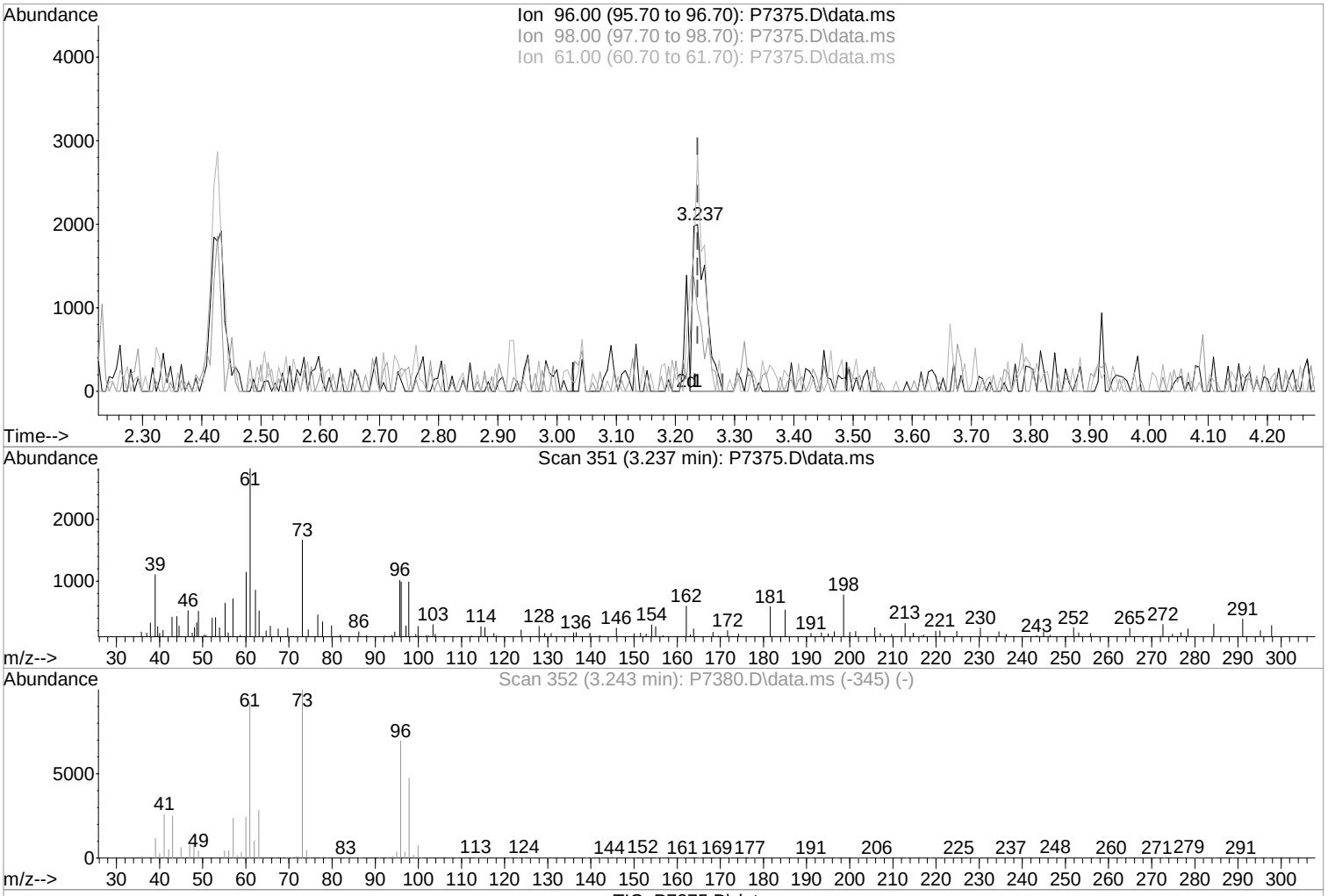
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (+0.000) 0.50 ppb

response 3145

Ion	Exp%	Act%
96.00	100	100
98.00	68.30	49.22
61.00	133.80	141.46
0.00	0.00	0.00

Manual Integration:

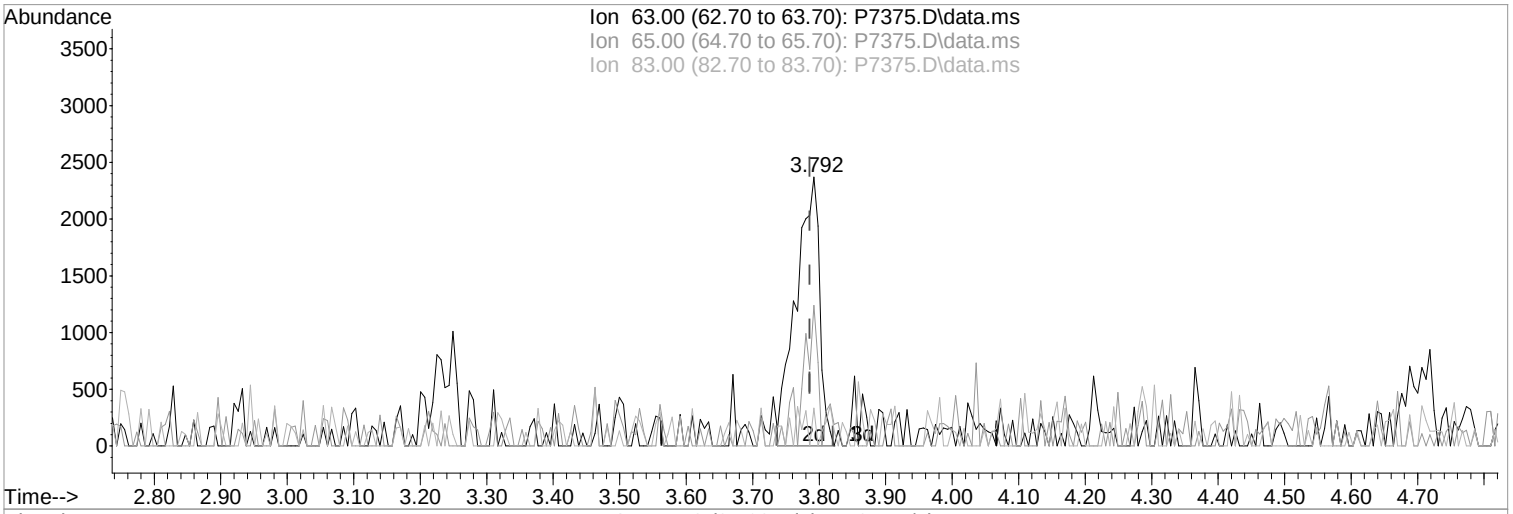
Before

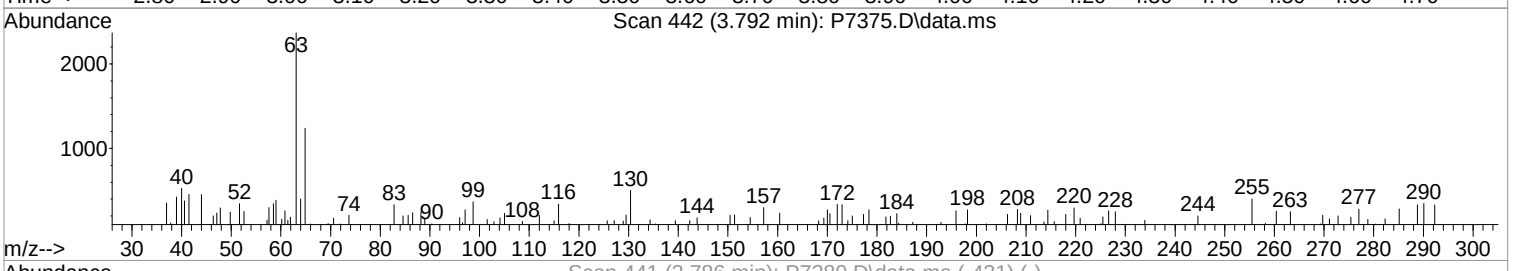
01/05/17

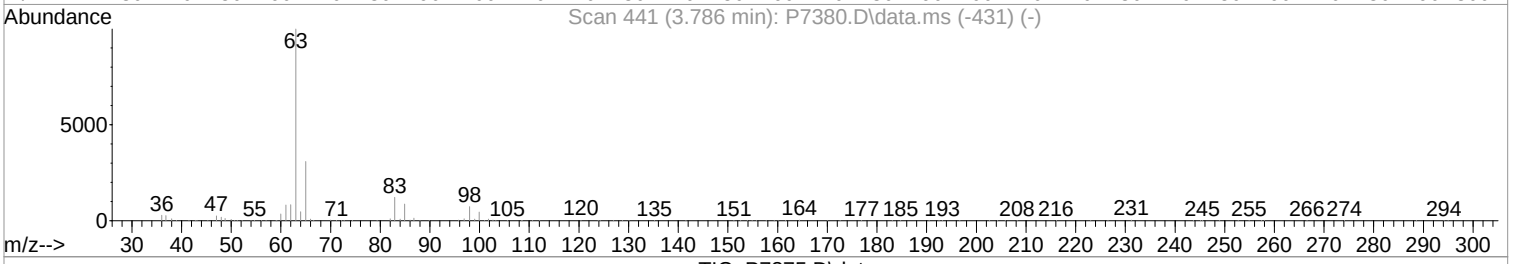
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(28) 1,1-Diclethane (P)

3.792min (+0.006) 0.55 ppb m

response 5820

Ion	Exp%	Act%
63.00	100	100
65.00	30.80	52.32#
83.00	12.10	14.09
0.00	0.00	0.00

Manual Integration:

After

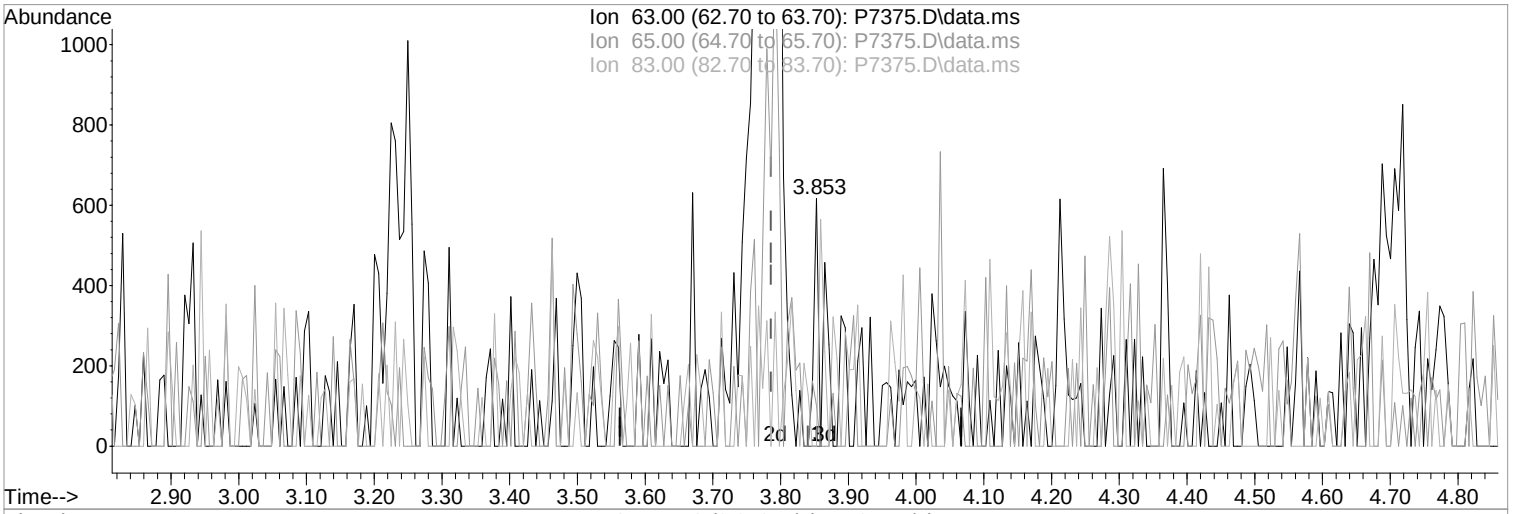
Peak not found.

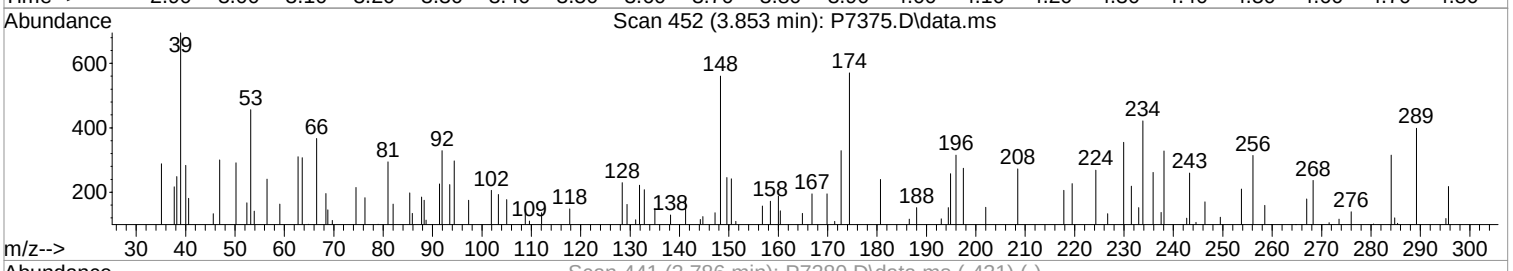
01/05/17

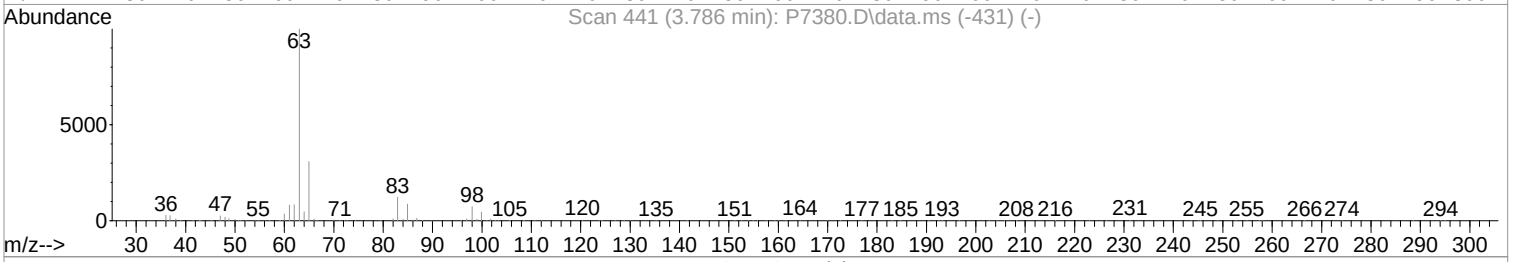
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(28) 1,1-Diclethane (P)

3.853min (+0.067) 0.03 ppb

response 276

Ion	Exp%	Act%
63.00	100	100
65.00	30.80	16.37
83.00	12.10	0.00
0.00	0.00	0.00

Manual Integration:

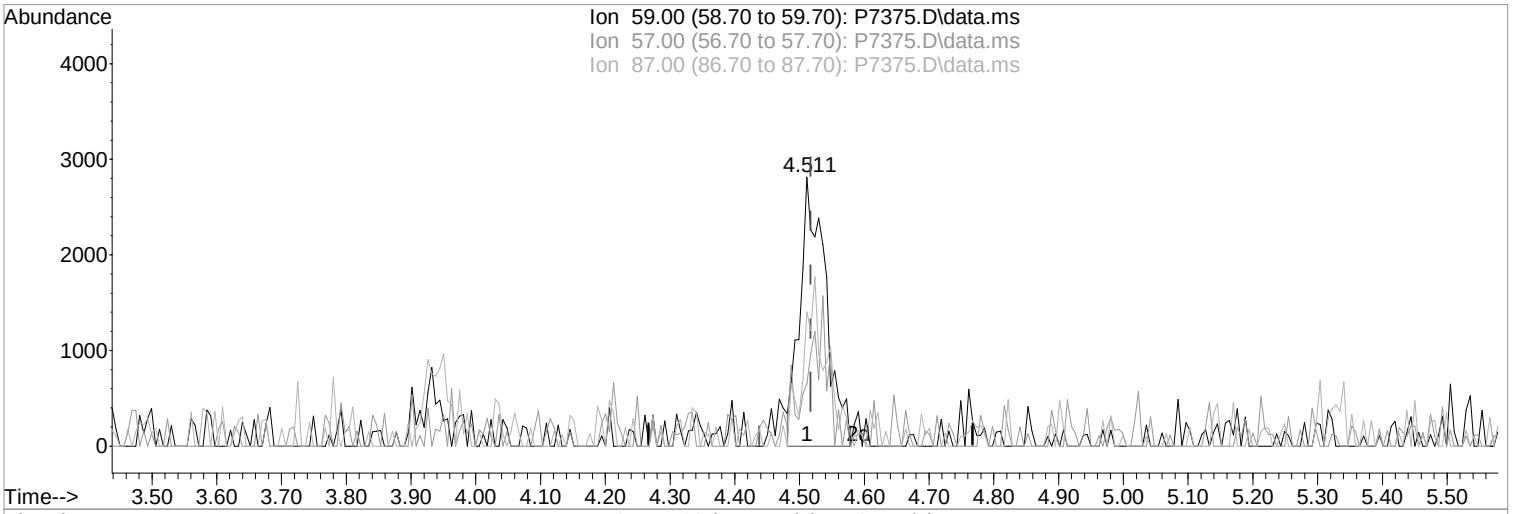
Before

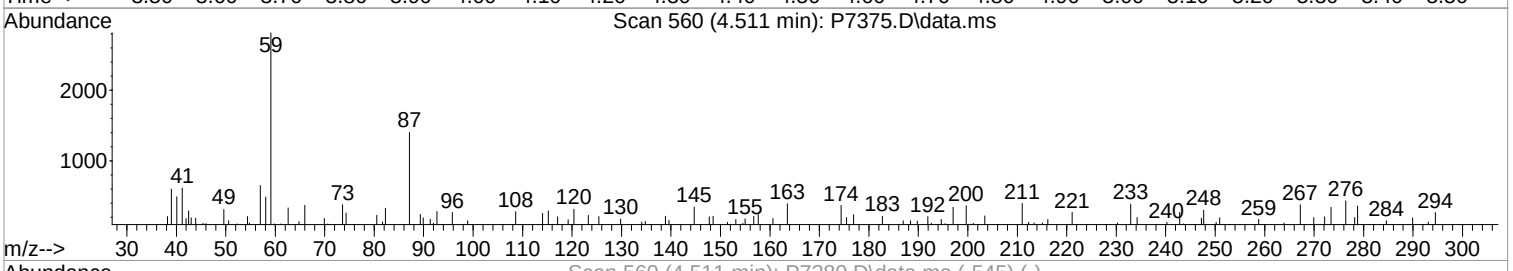
01/05/17

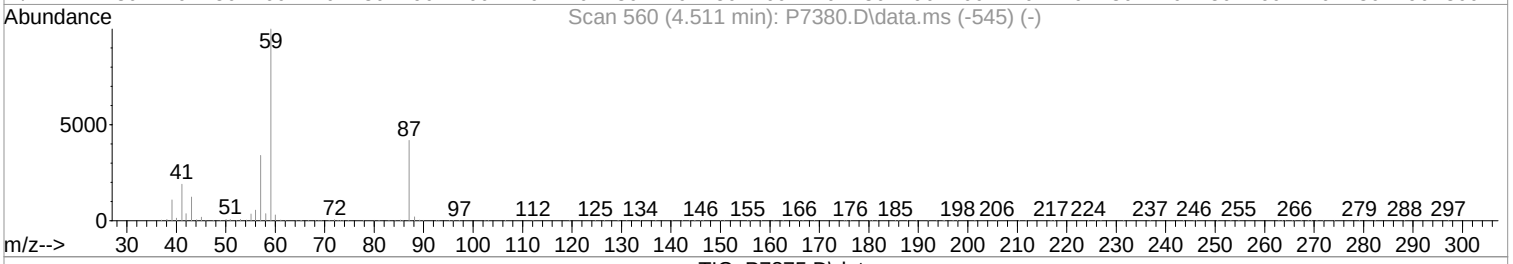
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(32) ETBE

4.511min (-0.006) 0.46 ppb m

response 7719

Ion	Exp%	Act%
59.00	100	100
57.00	34.00	23.13
87.00	41.90	49.93
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

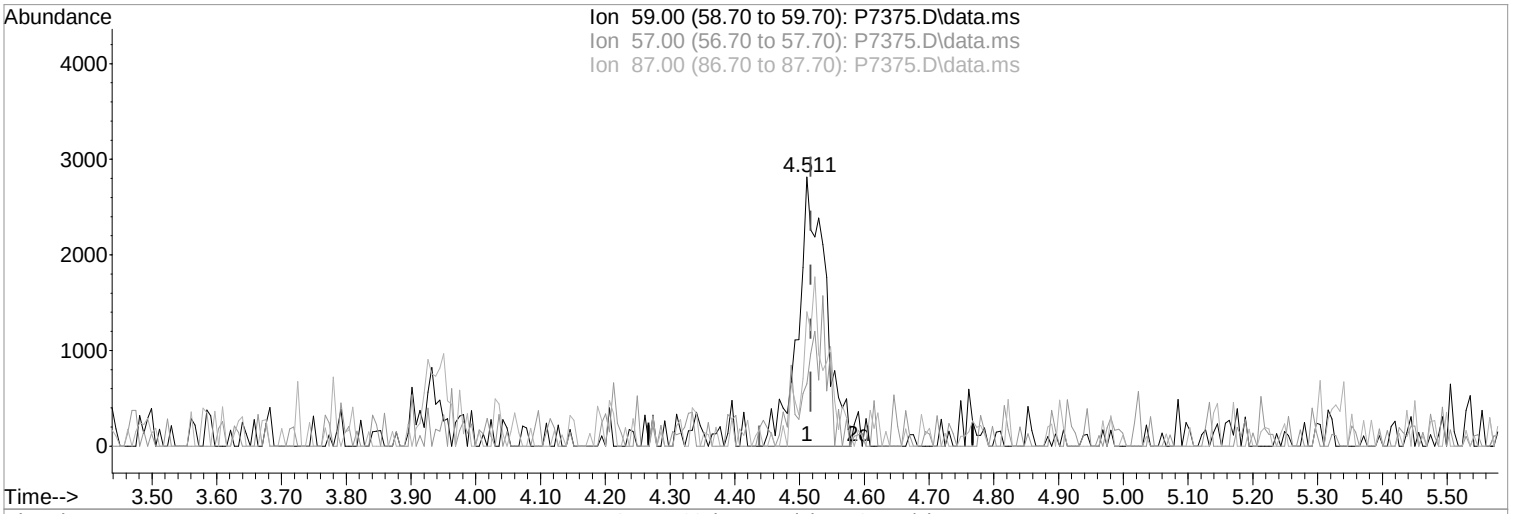
01/05/17

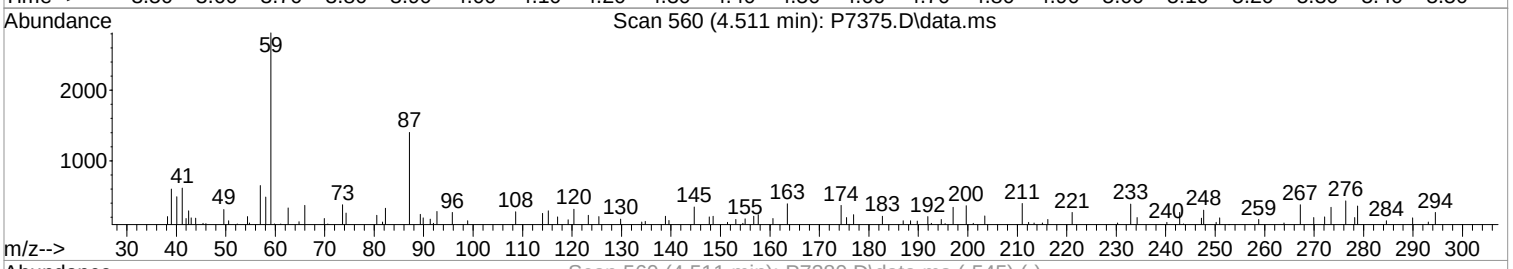
1st 01/05/17
2nd 01/05/17

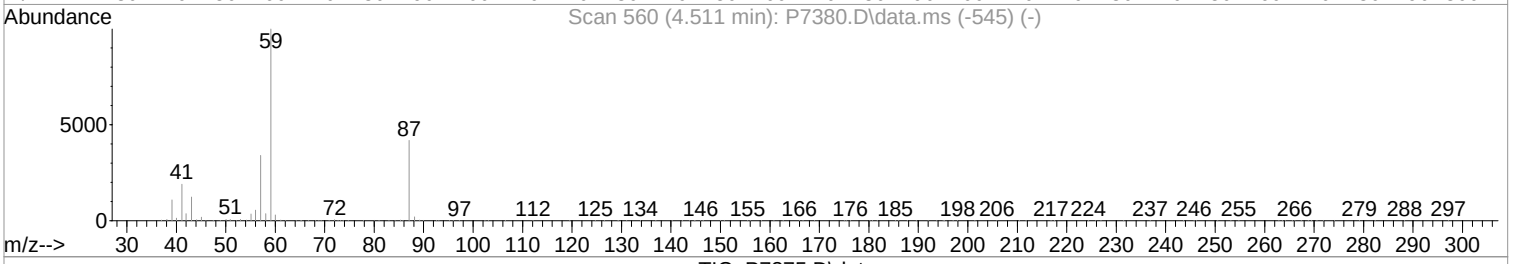
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(32) ETBE

4.511min (-0.006) 0.50 ppb

response 8396

Ion	Exp%	Act%
59.00	100	100
57.00	34.00	23.13
87.00	41.90	49.93
0.00	0.00	0.00

Manual Integration:

Before

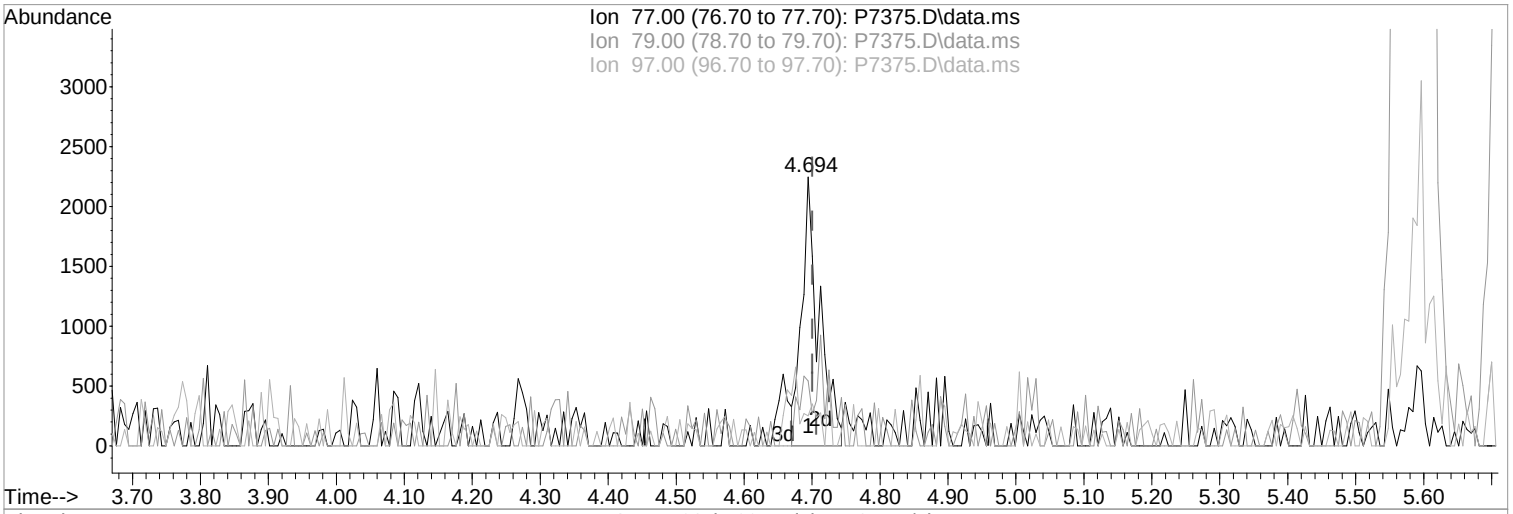
01/05/17

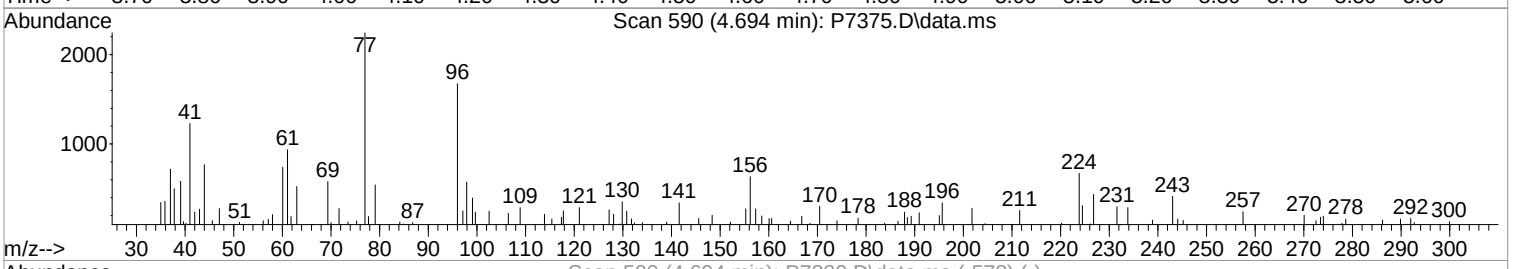
1st 01/05/17
2nd 01/05/17

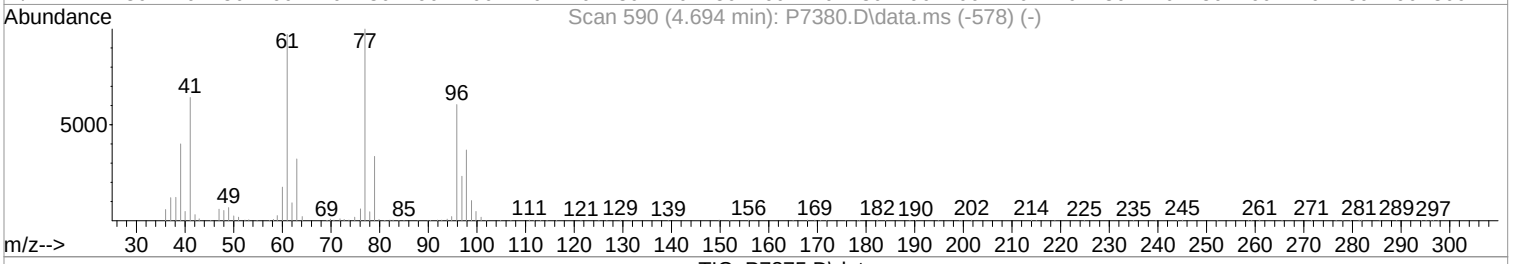
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(33) 2,2-Dichloropropane

4.694min (-0.006) 0.47 ppb m

response 3907

Ion	Exp%	Act%
77.00	100	100
79.00	33.80	24.18
97.00	23.20	11.18
0.00	0.00	0.00

Manual Integration:

After

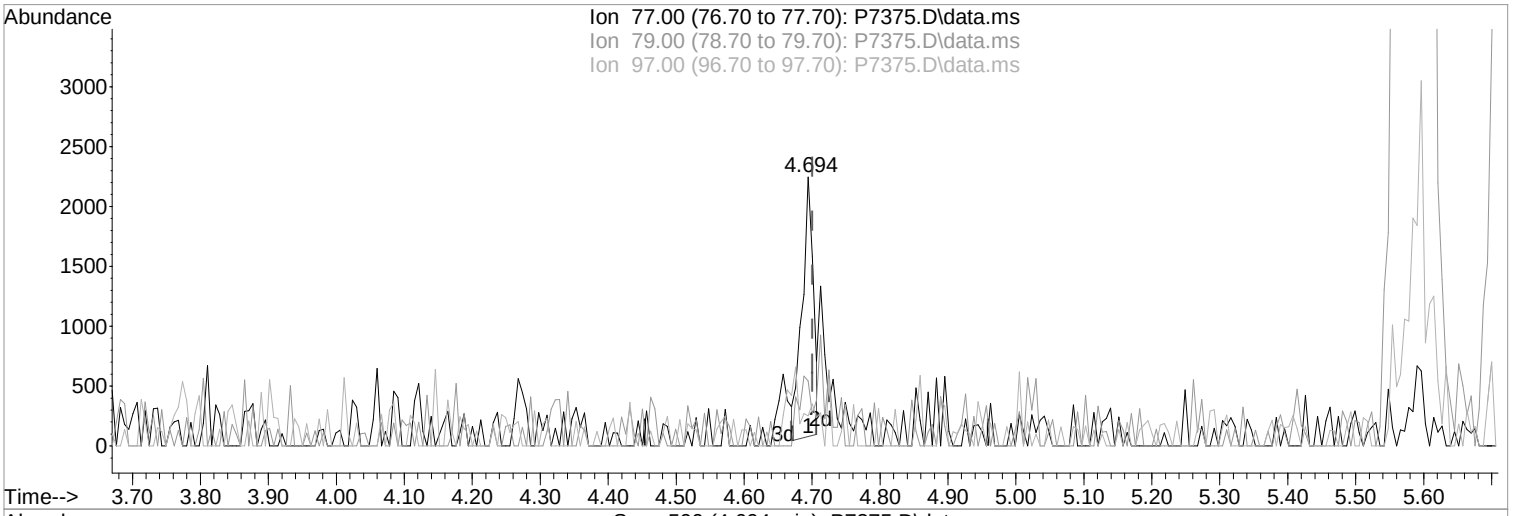
Split Peak

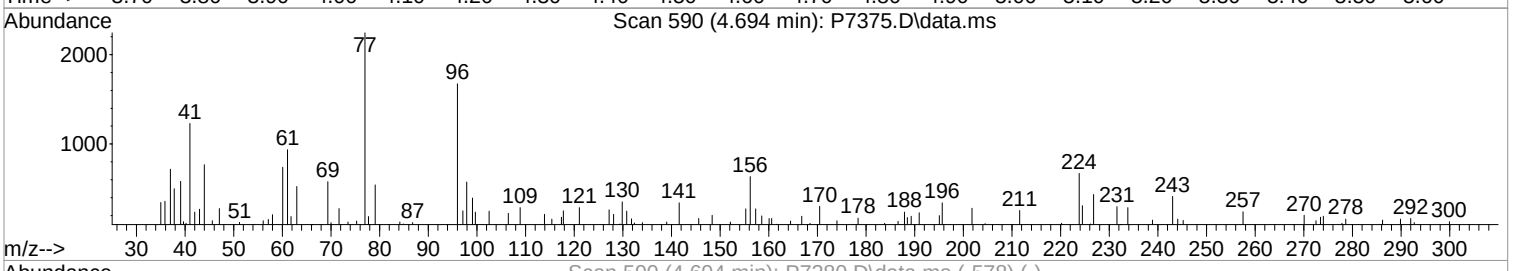
01/05/17

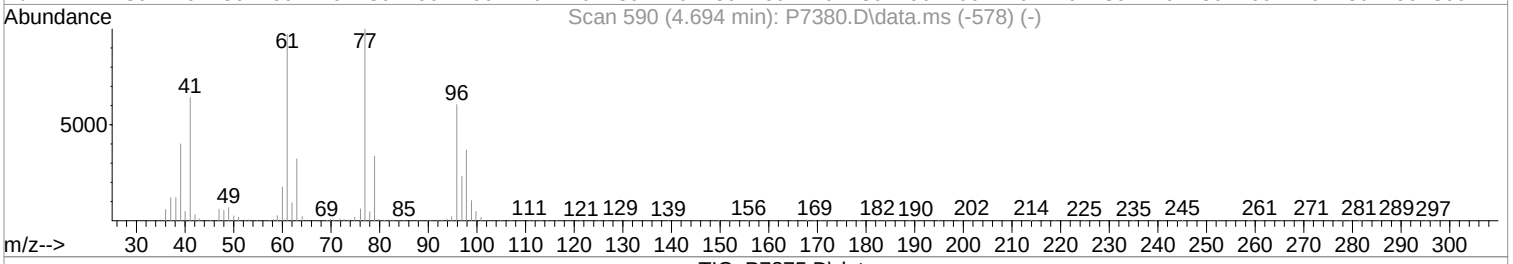
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(33) 2,2-Dichloropropane

4.694min (-0.006) 0.30 ppb

response 2510

Ion	Exp%	Act%
77.00	100	100
79.00	33.80	22.31
97.00	23.20	10.31
0.00	0.00	0.00

Manual Integration:

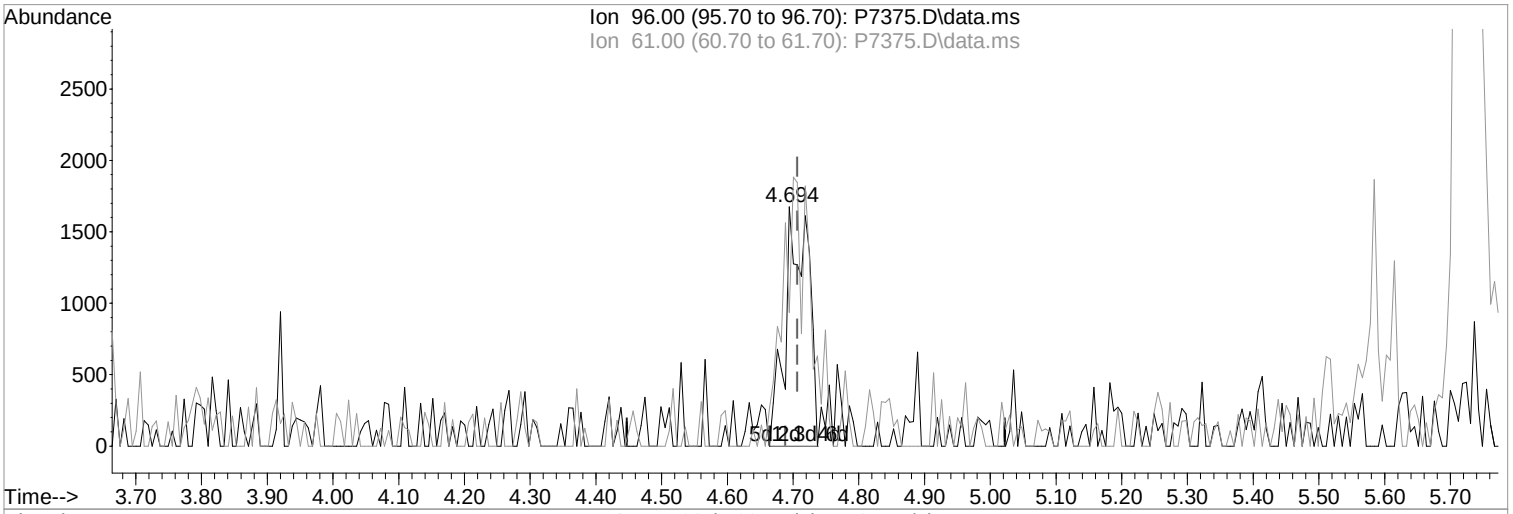
Before

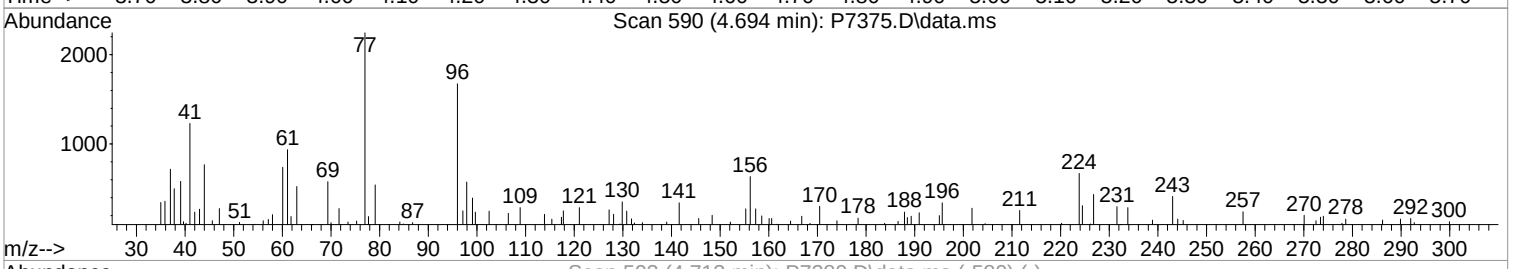
01/05/17

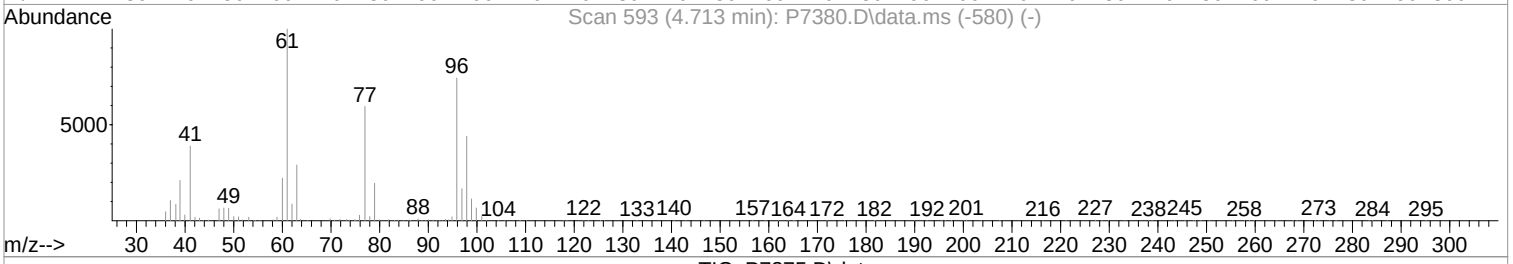
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.694min (-0.012) 0.61 ppb m

response 4064

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	55.91#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

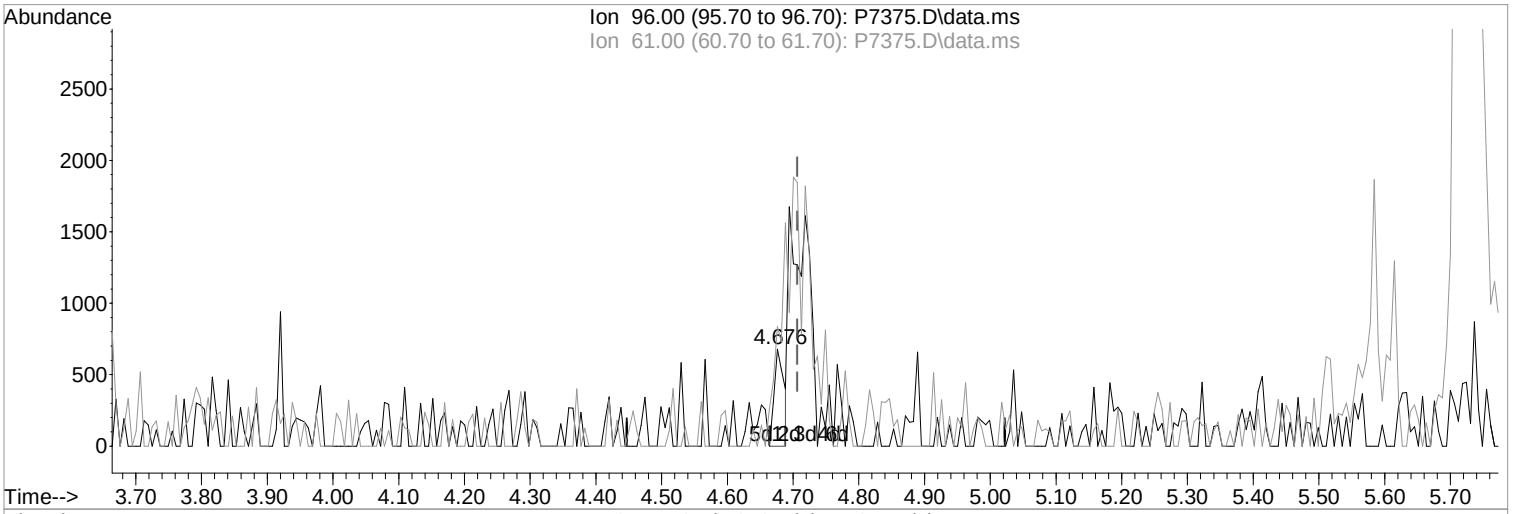
Split Peak

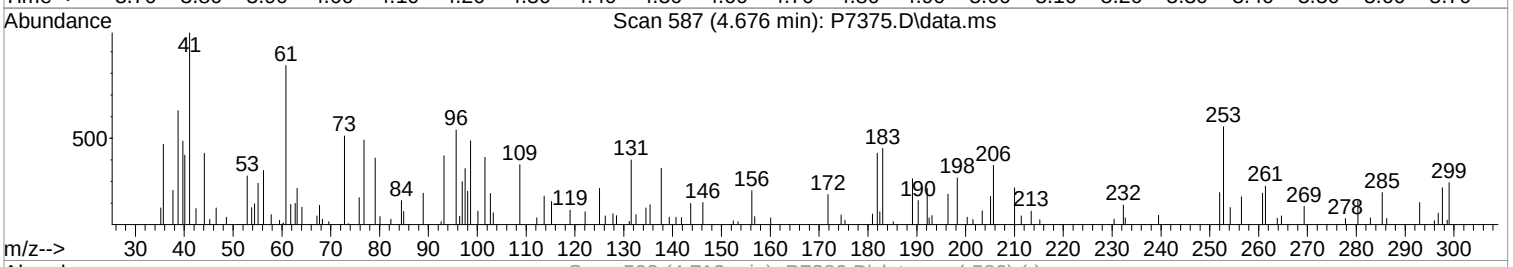
01/05/17

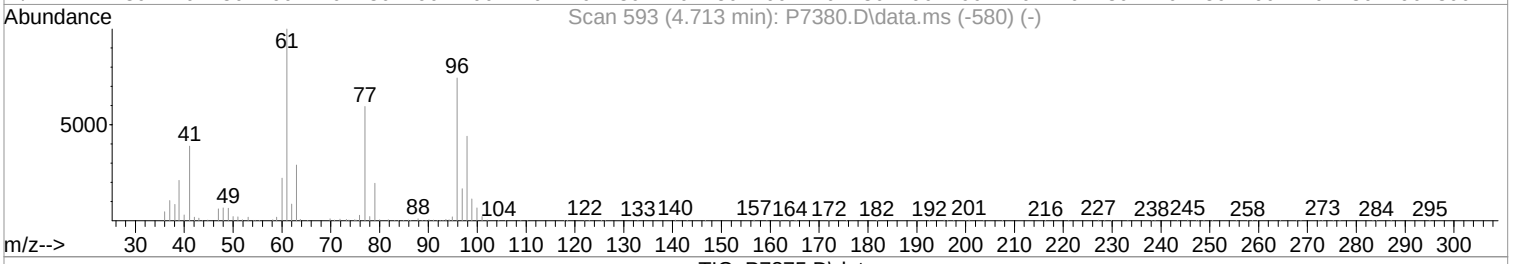
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.676min (-0.030) 0.11 ppb

response 702

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	123.30
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

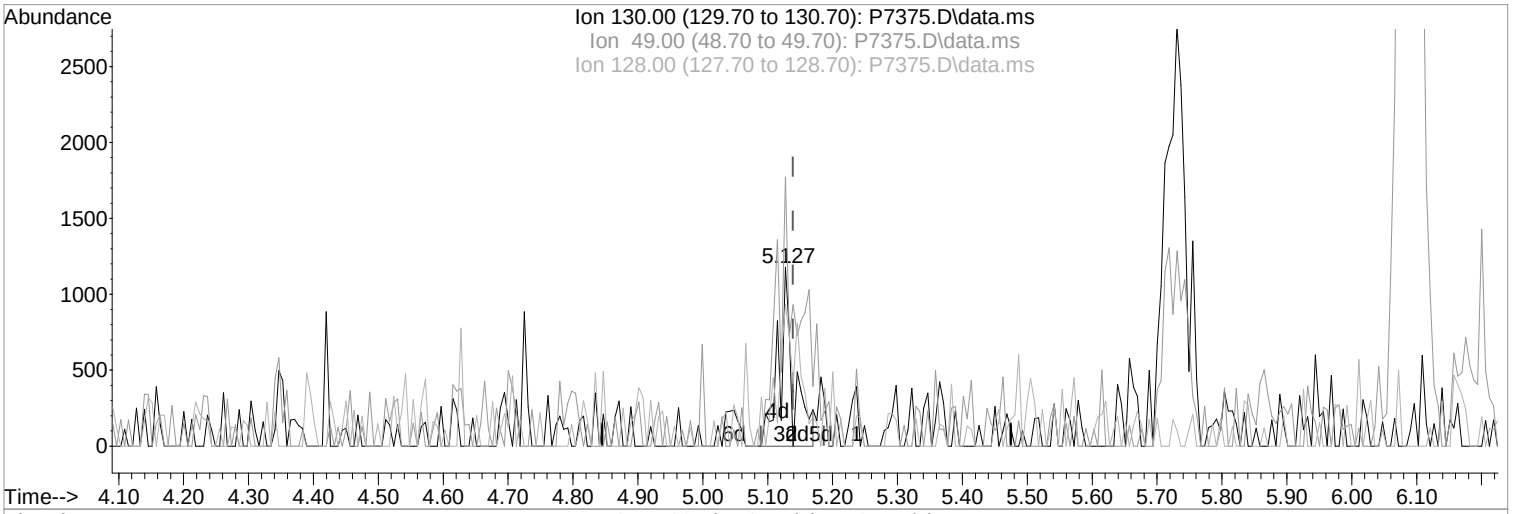
Before

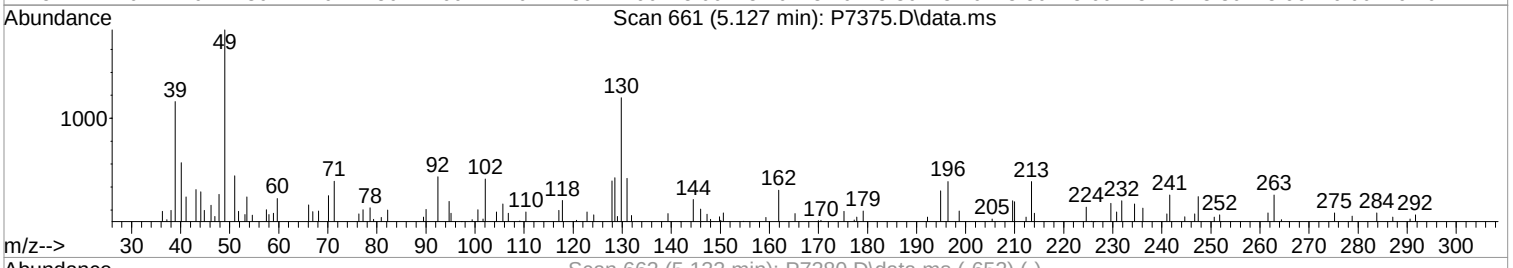
01/05/17

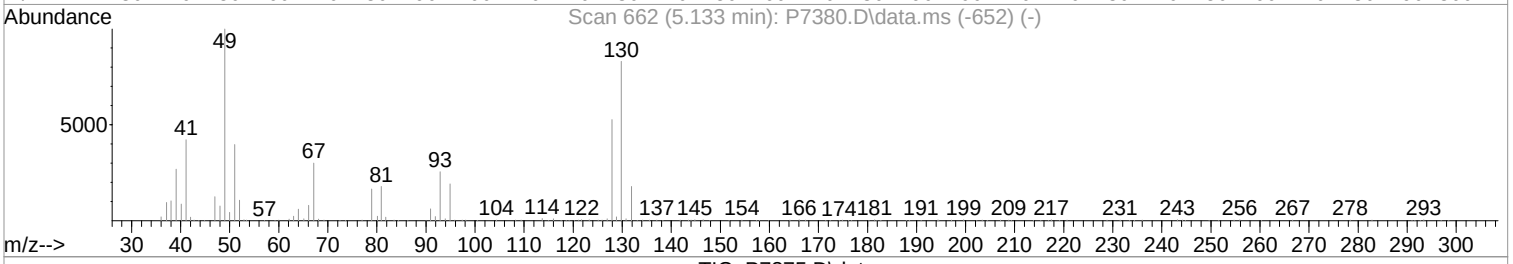
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(37) Bromochloromethane

5.127min (-0.012) 0.50 ppb m

response 1828

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	150.42#
128.00	64.20	40.75#
0.00	0.00	0.00

Manual Integration:

After

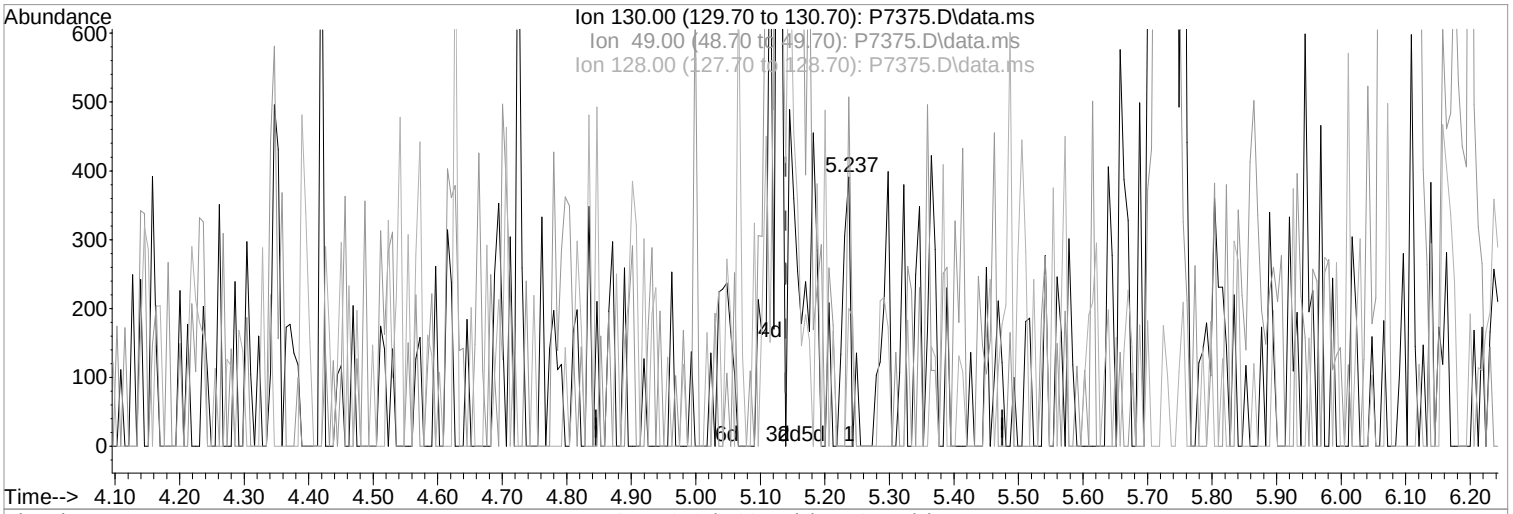
Split Peak

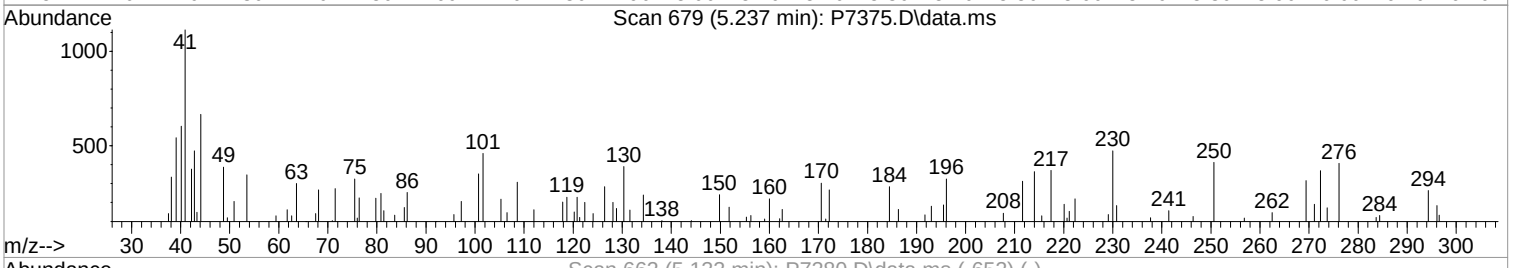
01/05/17

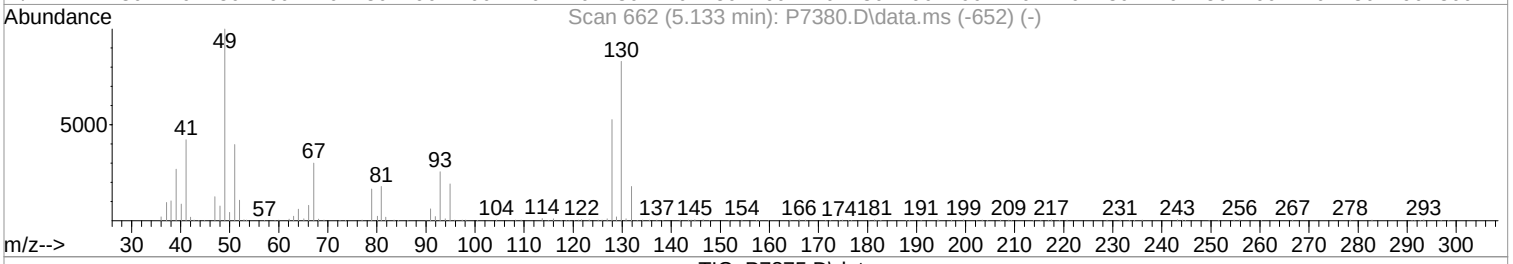
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(37) Bromochloromethane

5.237min (+0.098) 0.08 ppb

response 303

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	129.67
128.00	64.20	51.15
0.00	0.00	0.00

Manual Integration:

Before

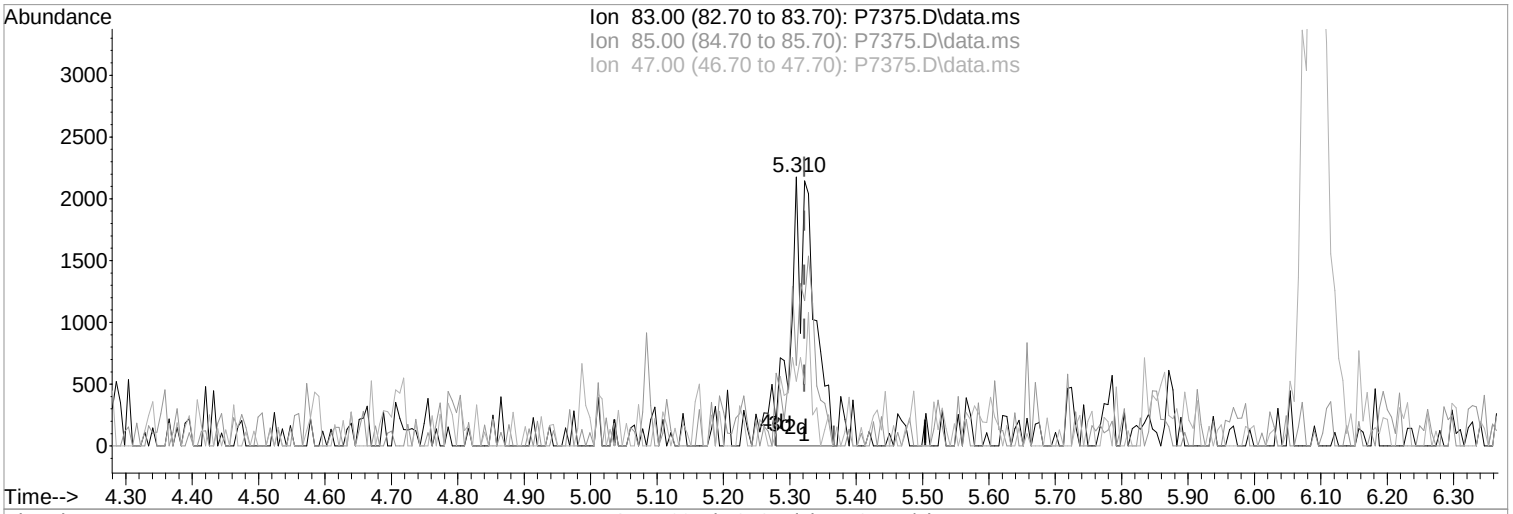
01/05/17

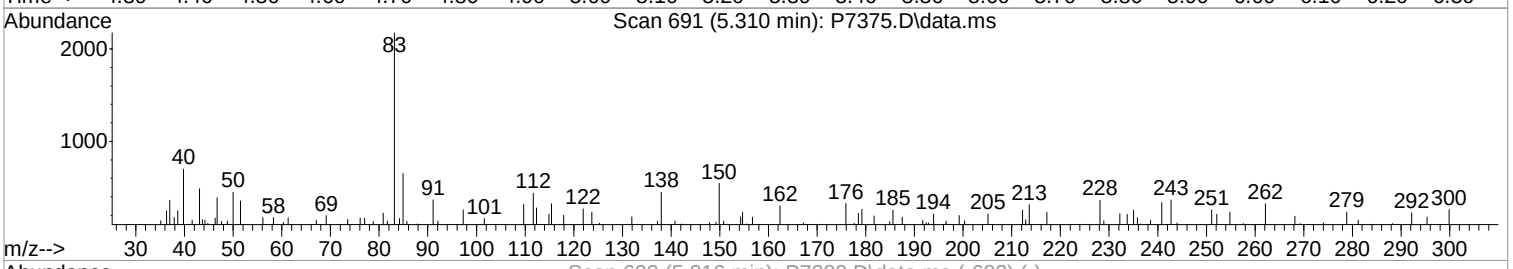
1st 01/05/17
2nd 01/05/17

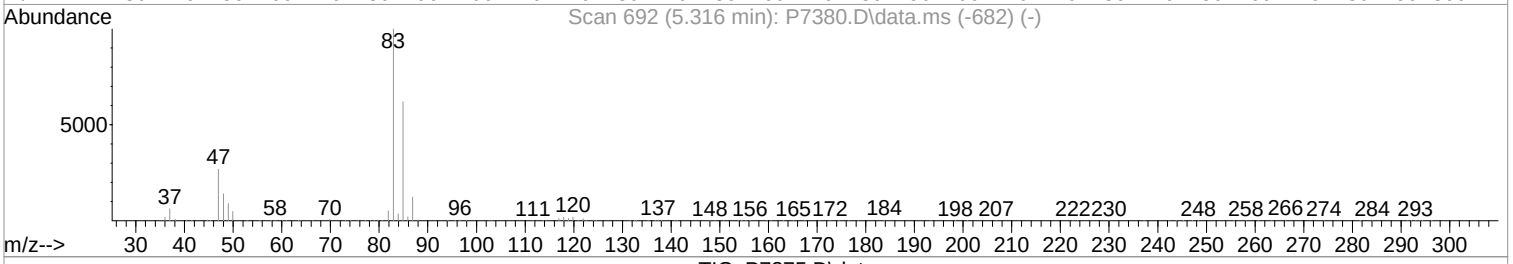
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(40) Chloroform (P)

5.310min (-0.012) 0.50 ppb m

response 5115

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	30.01#
47.00	26.90	17.97
0.00	0.00	0.00

Manual Integration:

After

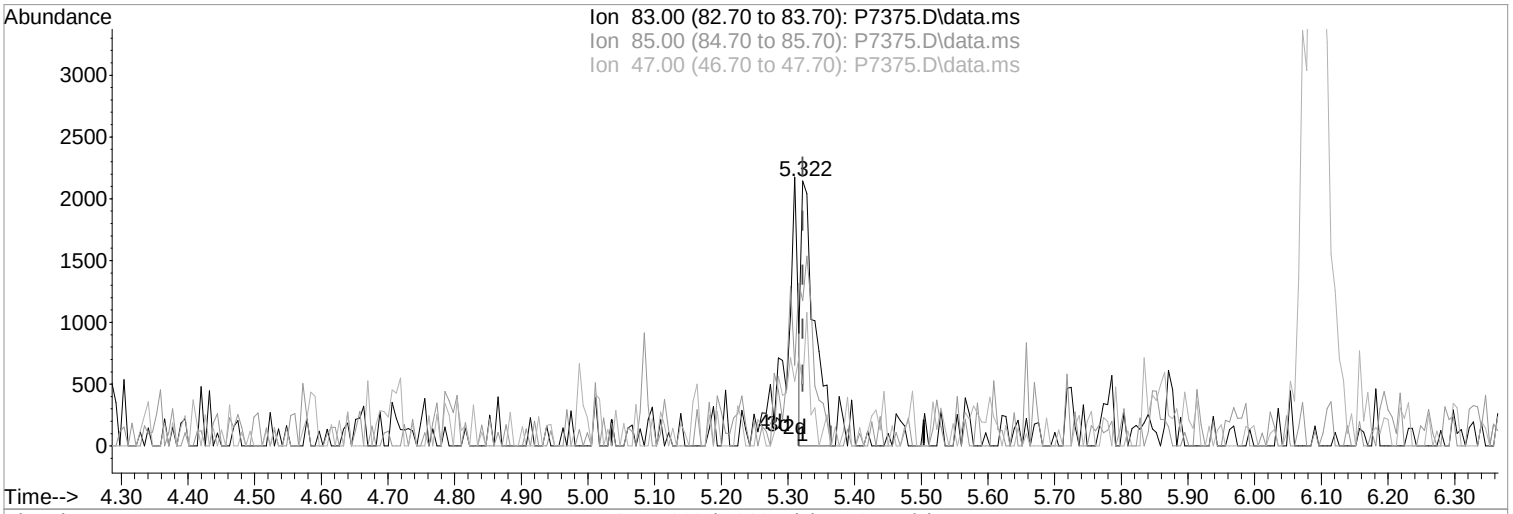
Split Peak

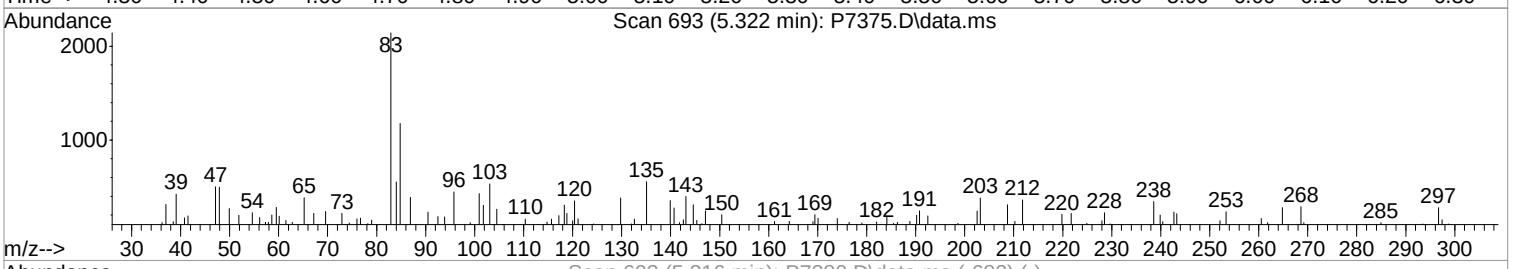
01/05/17

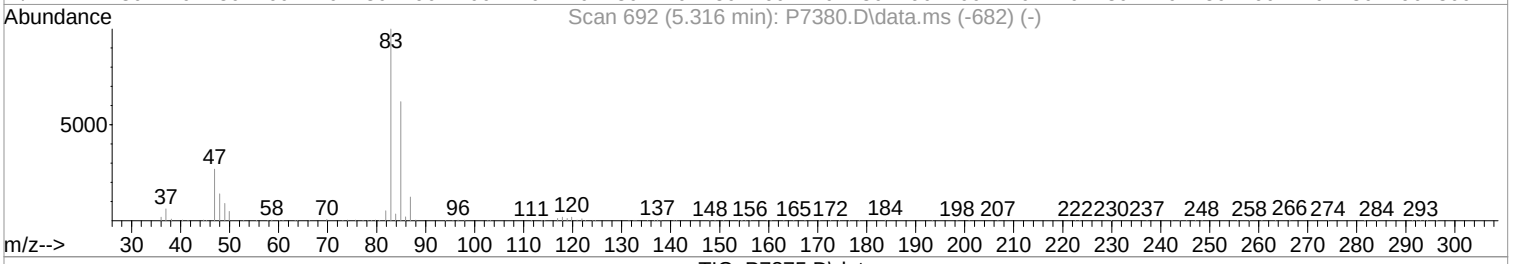
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(40) Chloroform (P)

5.322min (+0.000) 0.28 ppb

response 2913

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	54.80
47.00	26.90	23.41
0.00	0.00	0.00

Manual Integration:

Before

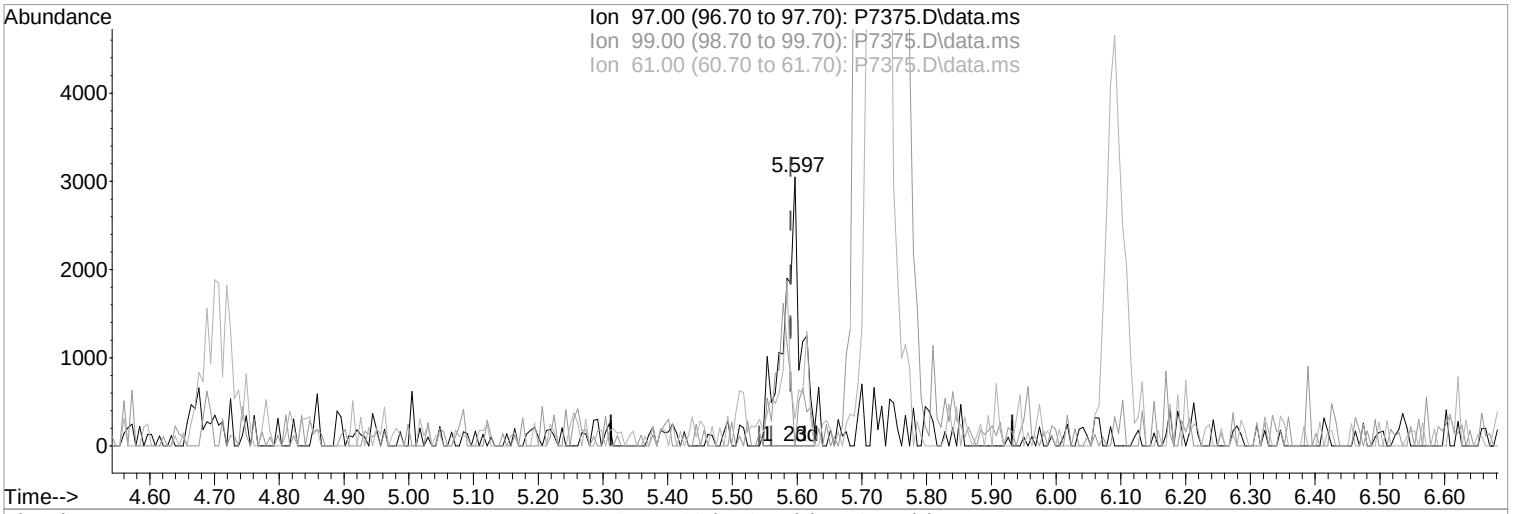
01/05/17

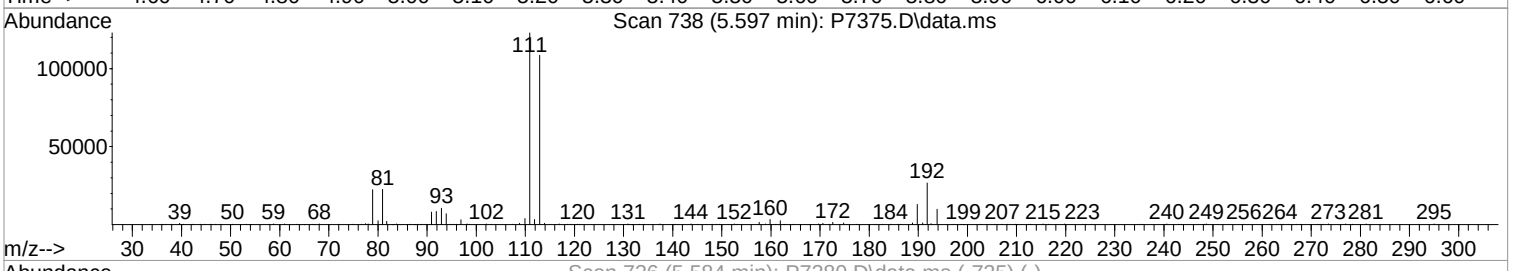
1st 01/05/17
2nd 01/05/17

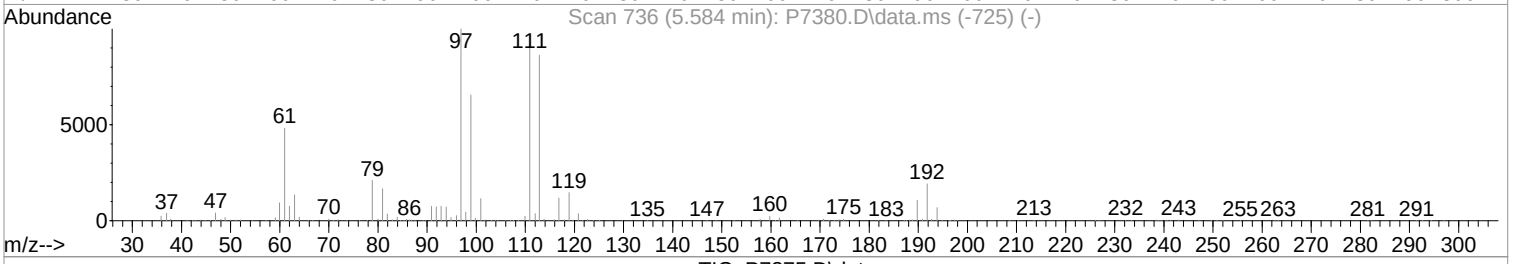
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

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

5.597min (+0.006) 0.61 ppb m

response 5498

Ion	Exp%	Act%
97.00	100	100
99.00	65.50	0.00#
61.00	48.10	10.33#
0.00	0.00	0.00

Manual Integration:

After

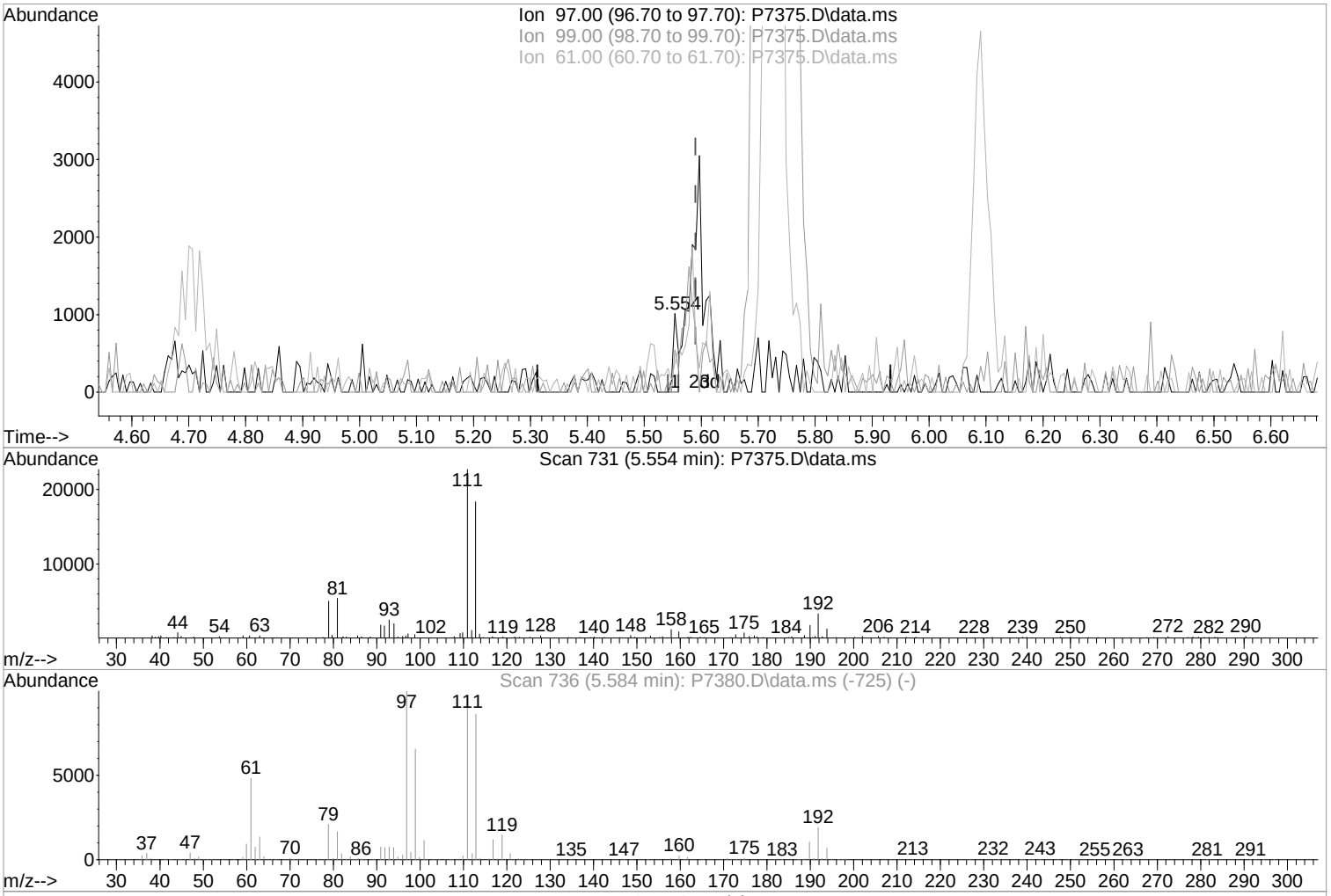
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

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

5.554min (-0.036) 0.07 ppb

response 606

Ion	Exp%	Act%
97.00	100	100
99.00	65.50	53.66
61.00	48.10	36.86
0.00	0.00	0.00

Manual Integration:

Before

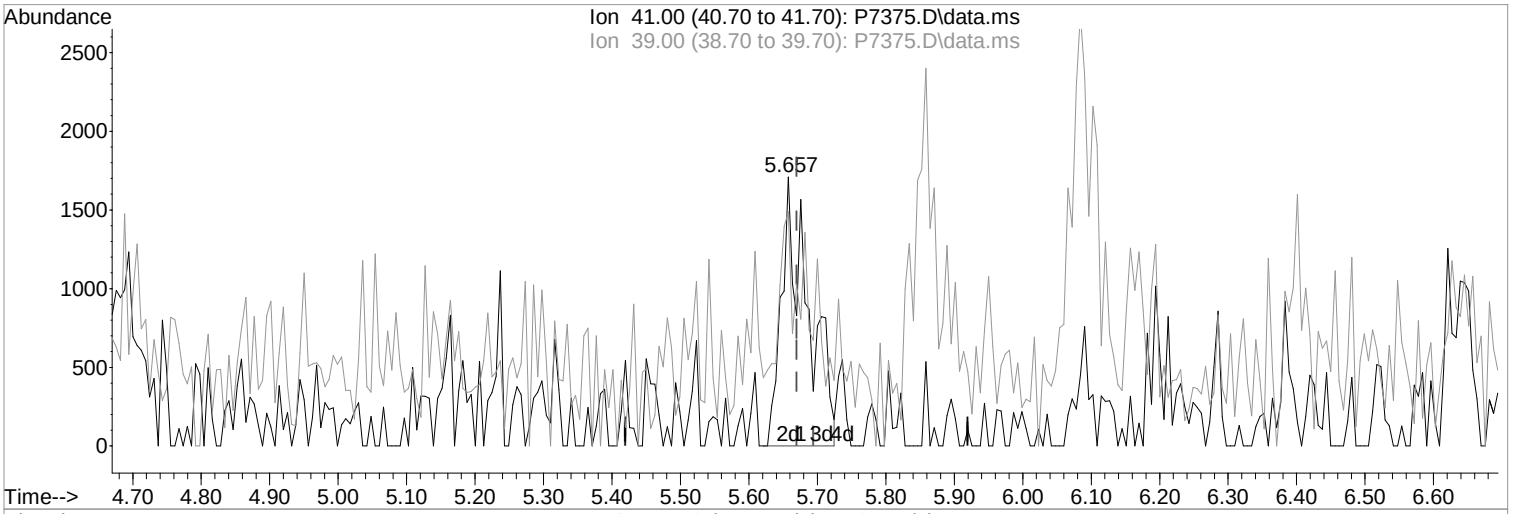
01/05/17

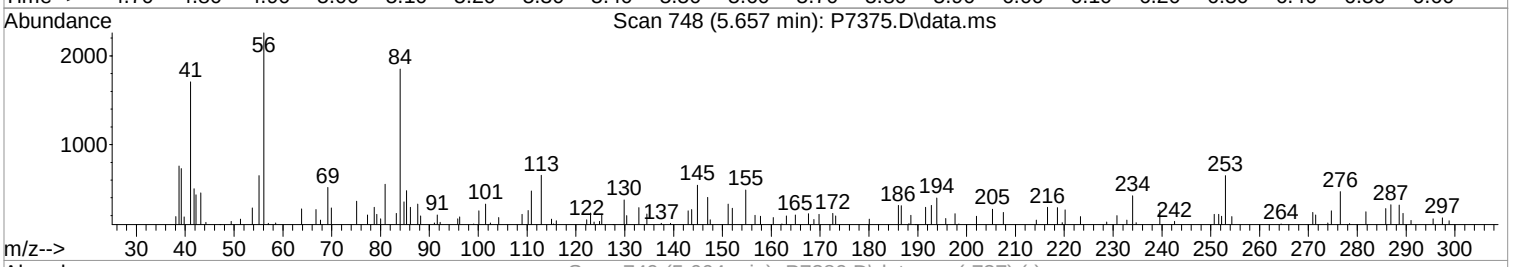
1st 01/05/17
2nd 01/05/17

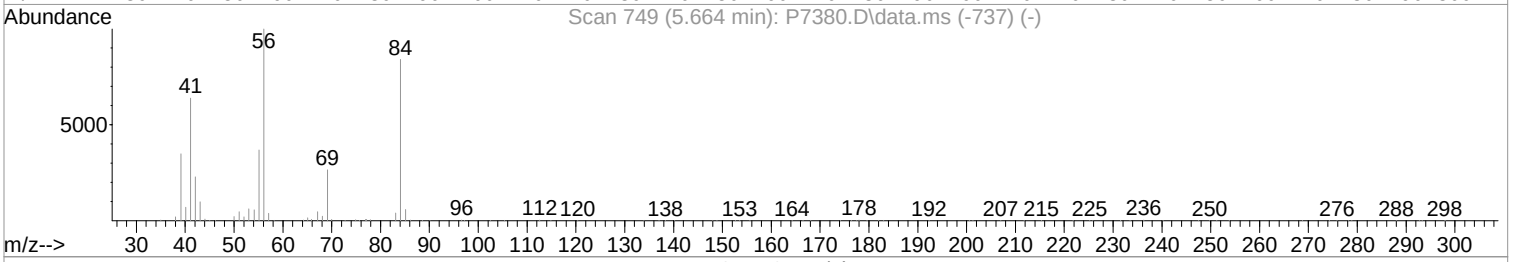
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(44) Cyclohexane (P)

5.657min (-0.012) 0.71 ppb m

response 4660

Ion	Exp%	Act%
41.00	100	100
39.00	55.60	44.47
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

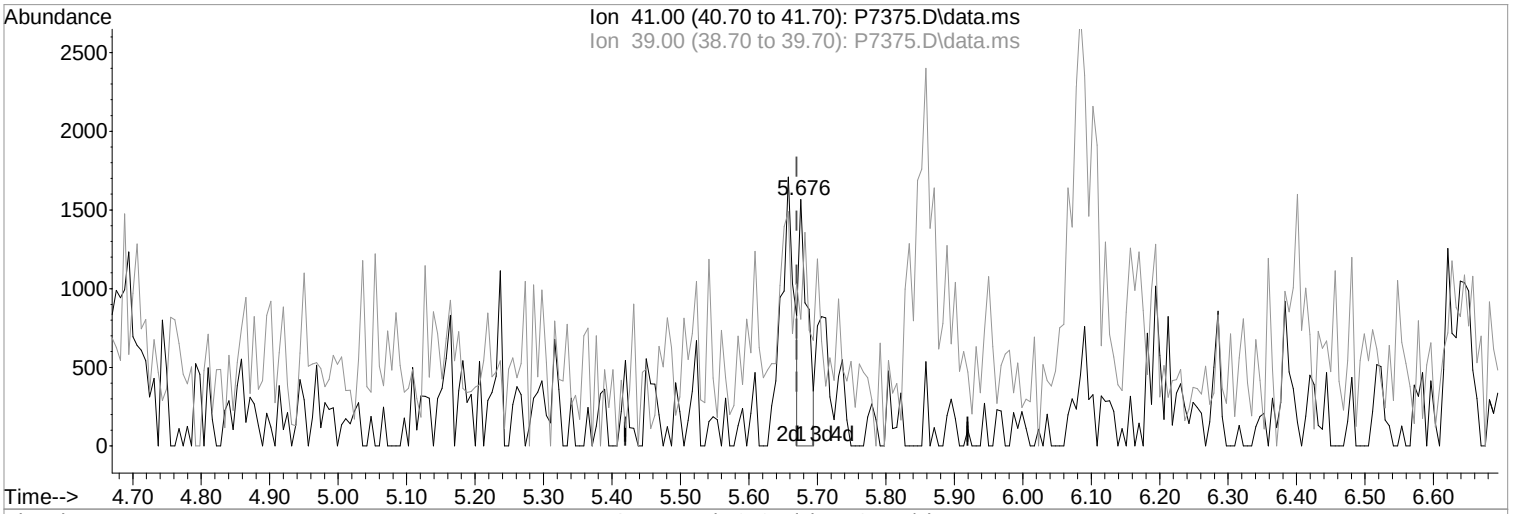
Split Peak

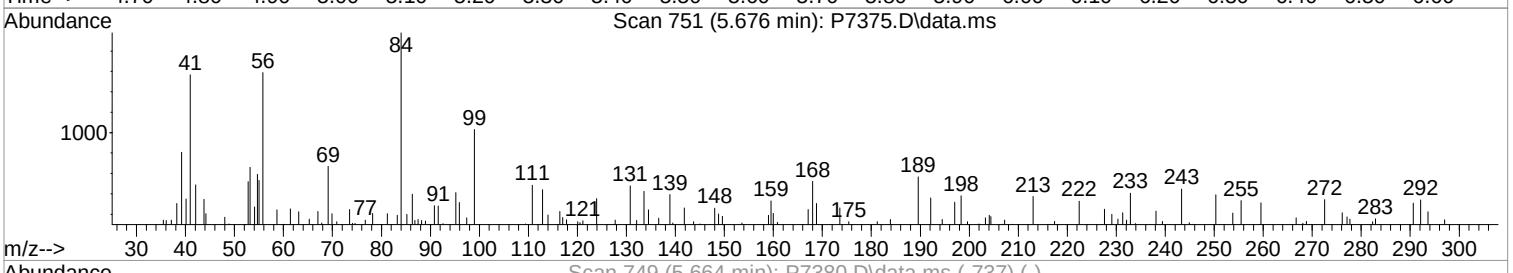
01/05/17

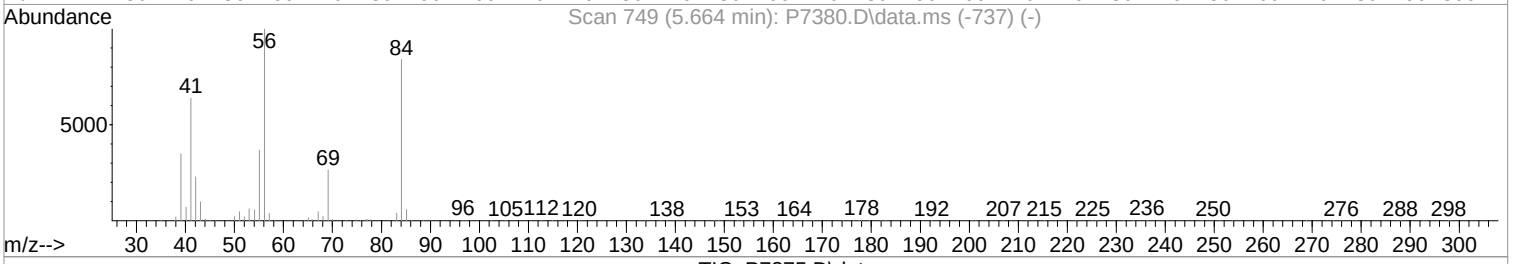
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(44) Cyclohexane (P)

5.676min (+0.006) 0.21 ppb

response 1351

Ion	Exp%	Act%
41.00	100	100
39.00	55.60	51.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

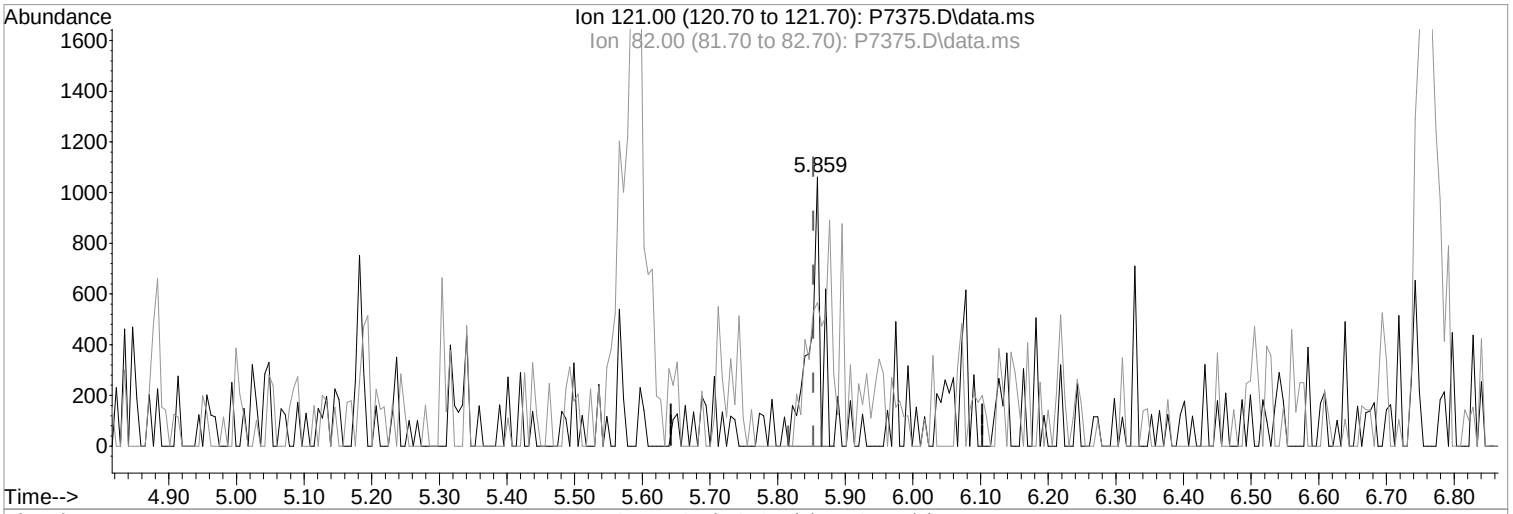
Before

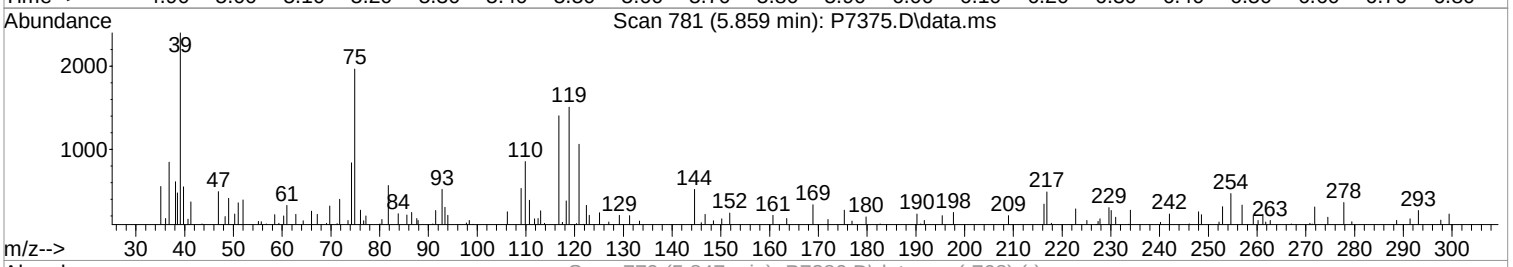
01/05/17

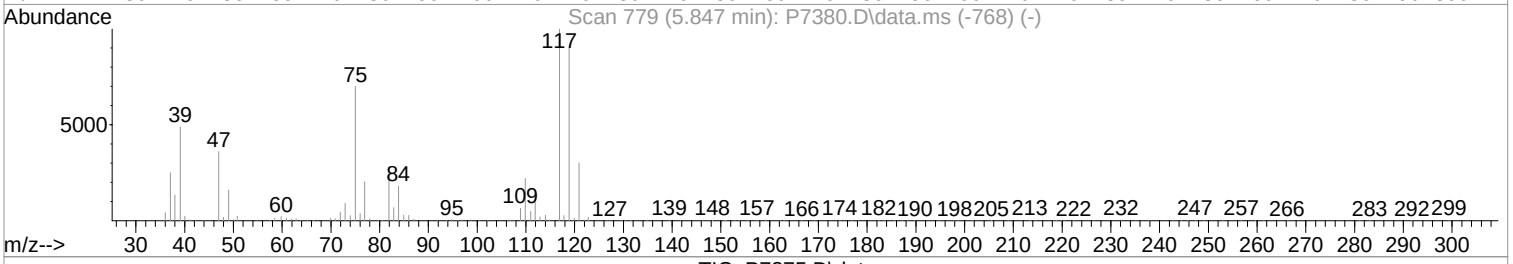
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(46) Carbontetrachloride (P)

5.859min (+0.006) 0.54 ppb m

response 1233

Ion	Exp%	Act%
121.00	100	100
82.00	93.70	53.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

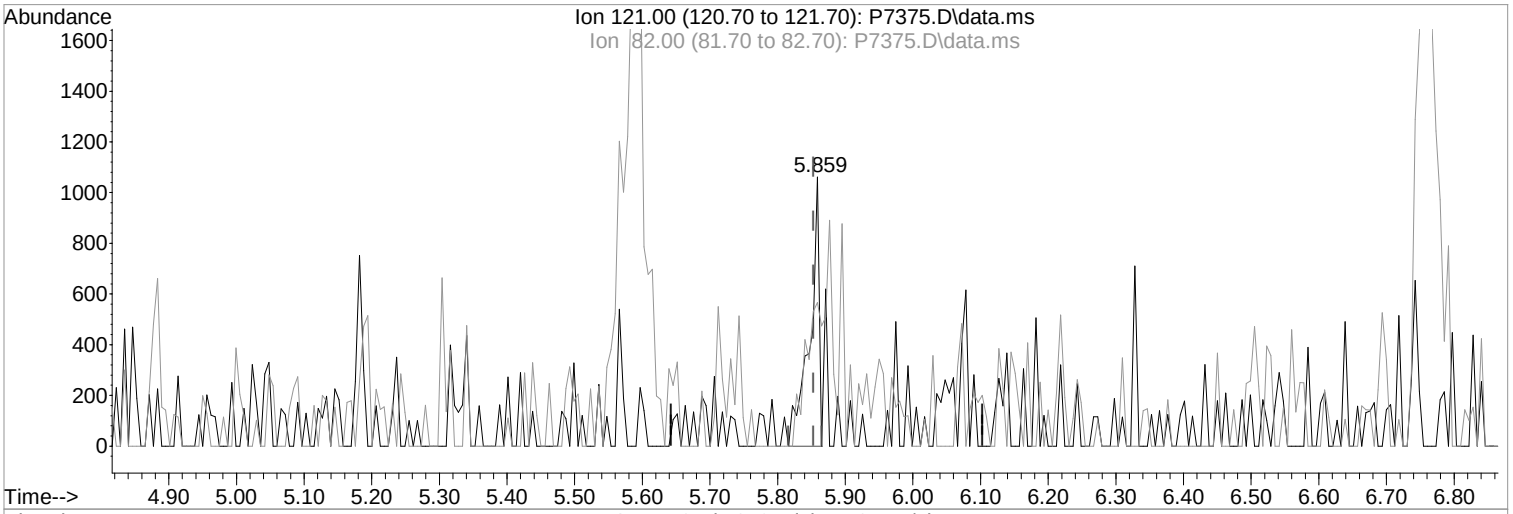
Split Peak

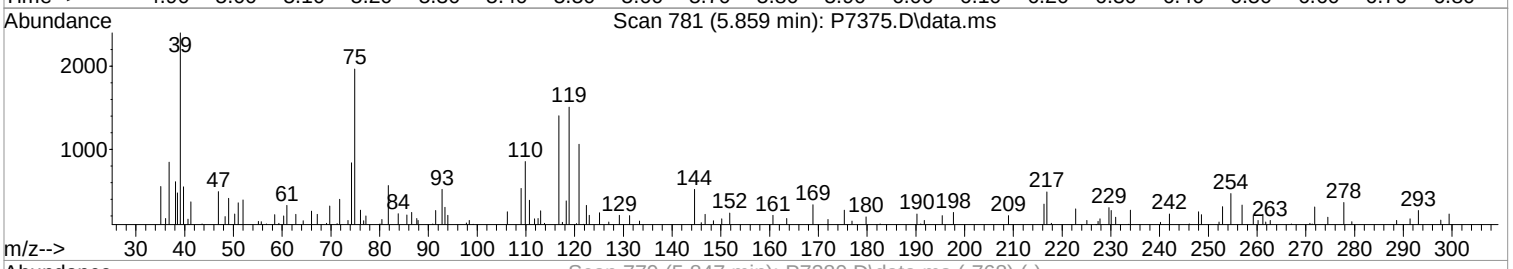
01/05/17

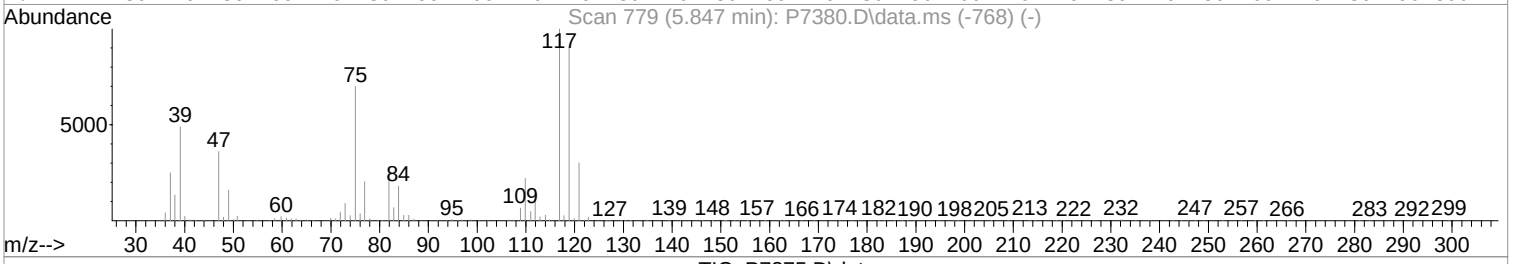
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(46) Carbontetrachloride (P)

5.859min (+0.006) 0.44 ppb

response 1006

Ion	Exp%	Act%
121.00	100	100
82.00	93.70	53.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

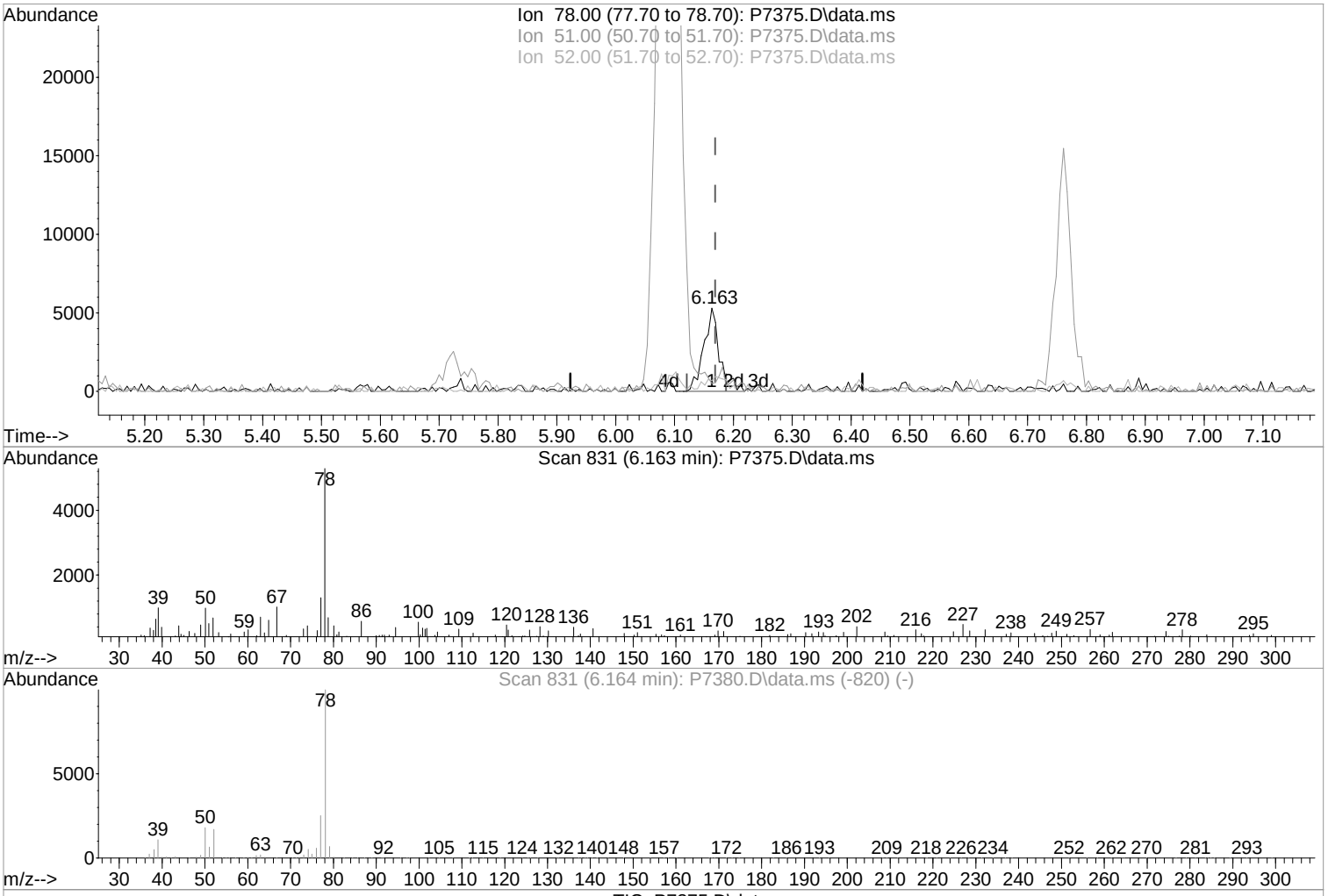
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(49) Benzene (P)

6.163min (-0.006) 0.45 ppb m

response 9921

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	9.49
52.00	16.90	12.87
0.00	0.00	0.00

Manual Integration:

After

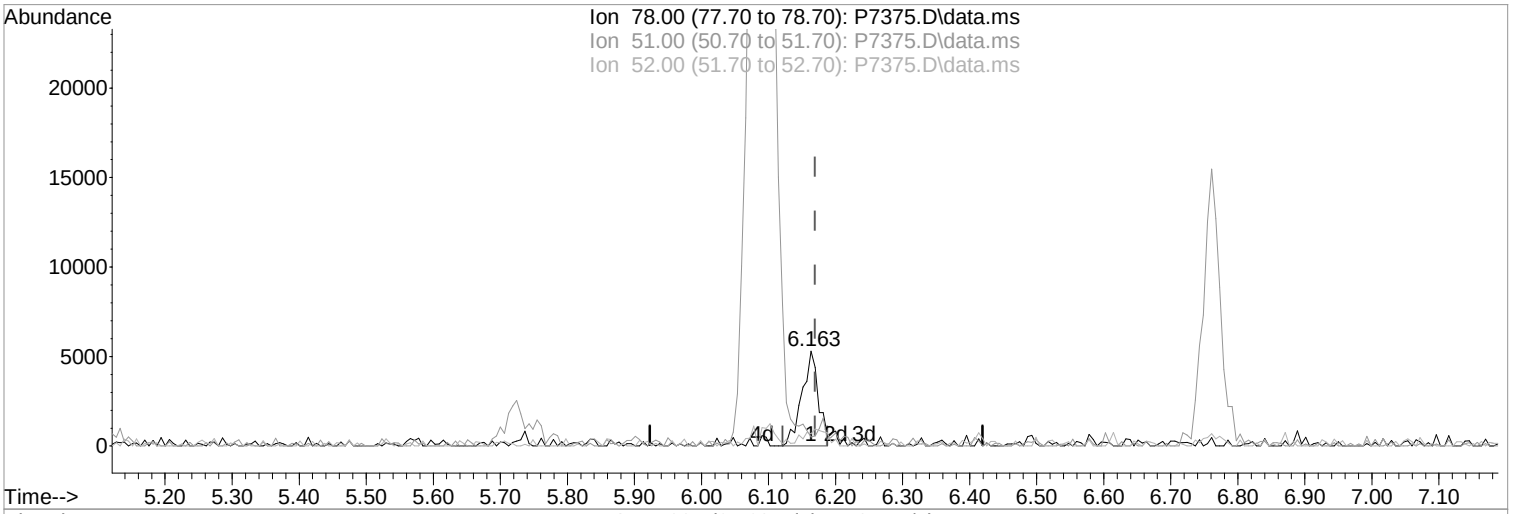
Split Peak

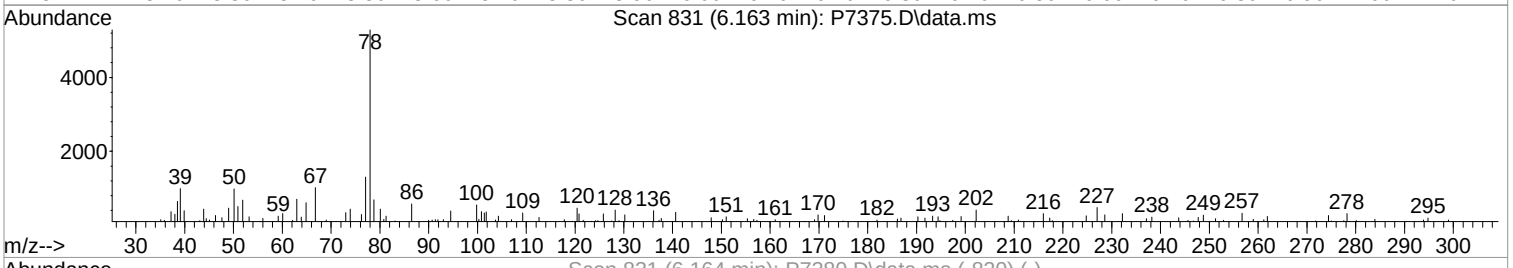
01/05/17

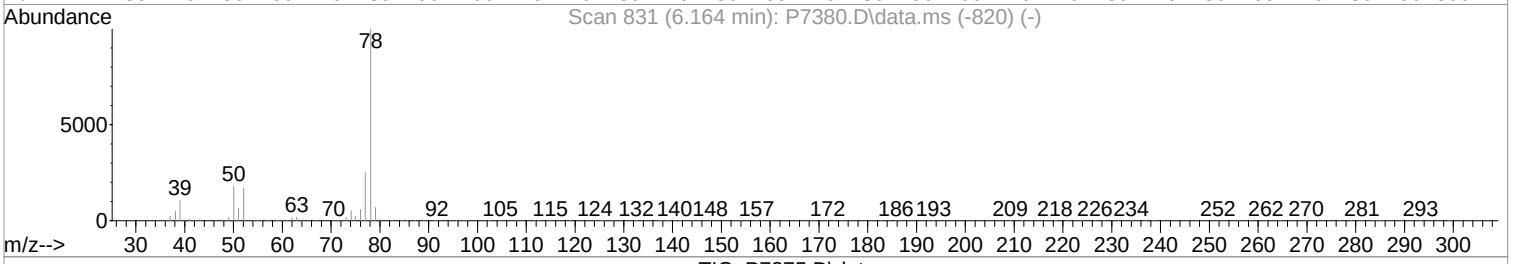
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(49) Benzene (P)

6.163min (-0.006) 0.42 ppb

response 9163

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	9.49
52.00	16.90	12.87
0.00	0.00	0.00

Manual Integration:

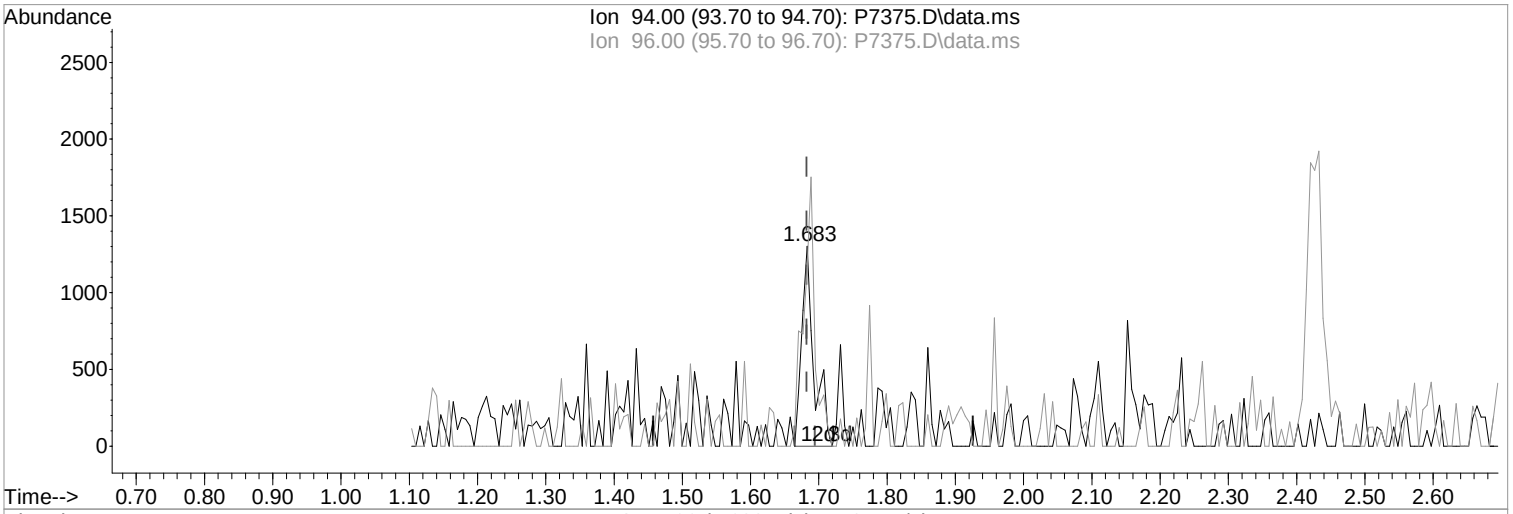
Before

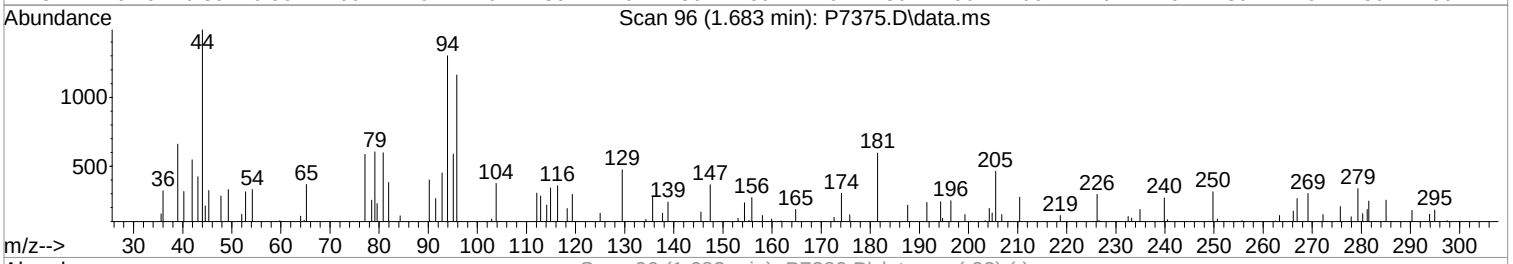
01/05/17

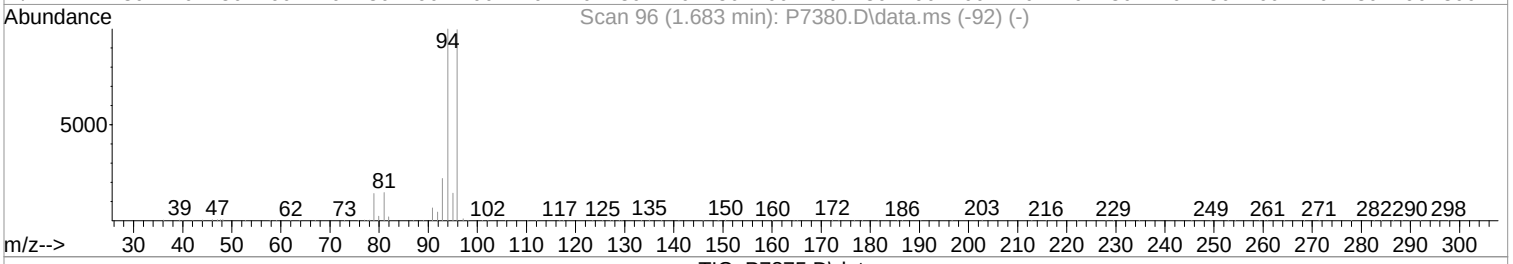
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(5) Bromomethane (P)

1.683min (+0.000) 0.44 ppb m

response 1646

Ion	Exp%	Act%
94.00	100	100
96.00	99.40	89.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

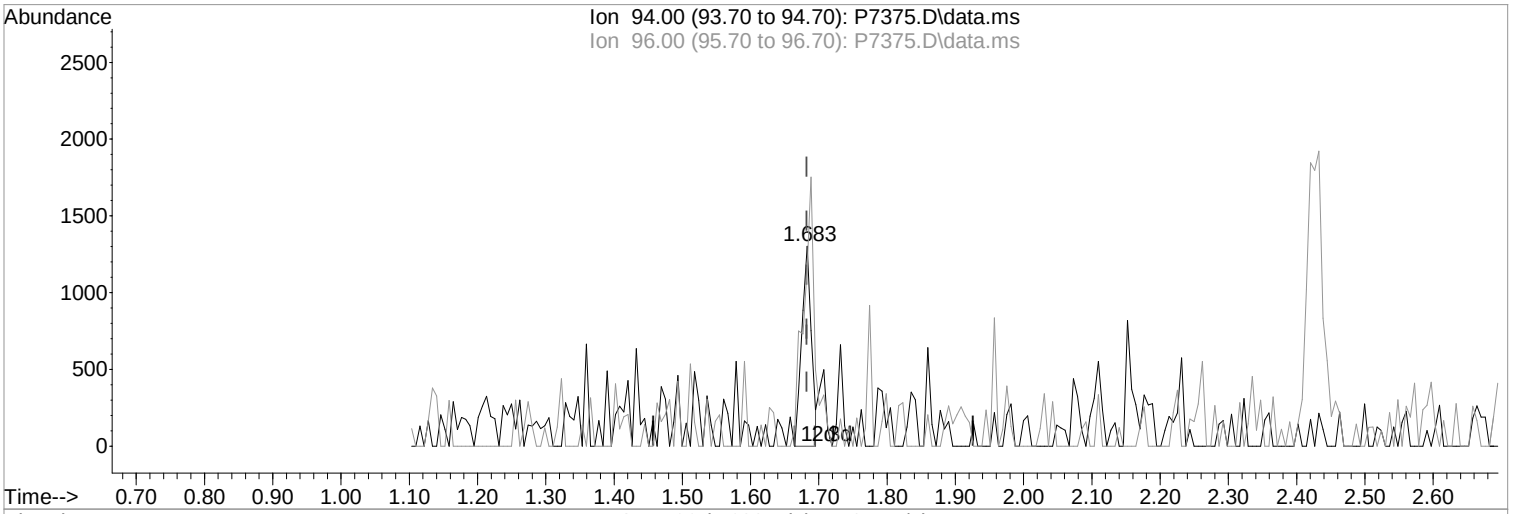
Split Peak

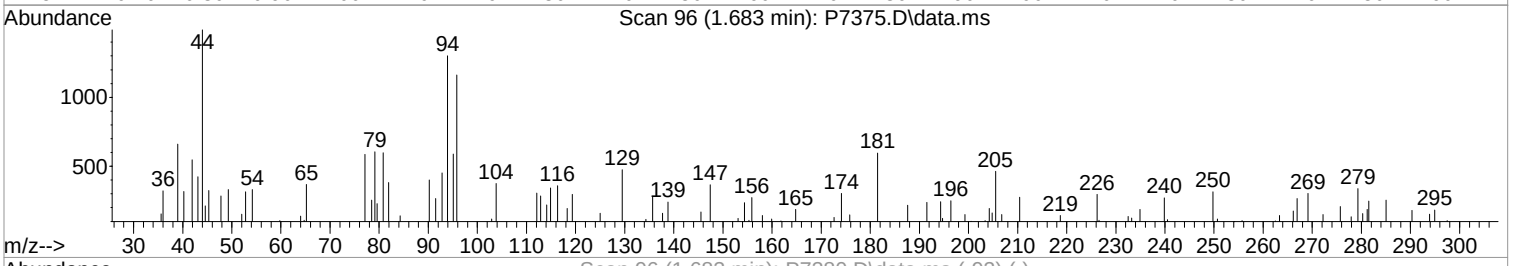
01/05/17

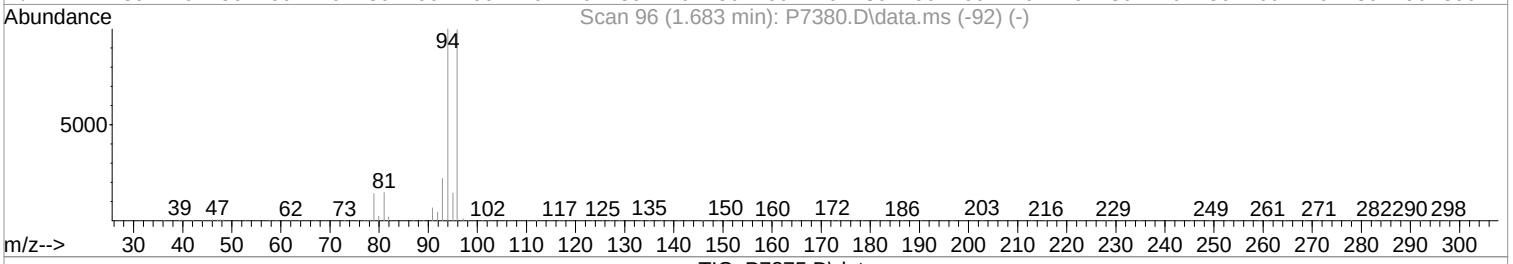
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(5) Bromomethane (P)

1.683min (+0.000) 0.34 ppb

response 1291

Ion	Exp%	Act%
94.00	100	100
96.00	99.40	89.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

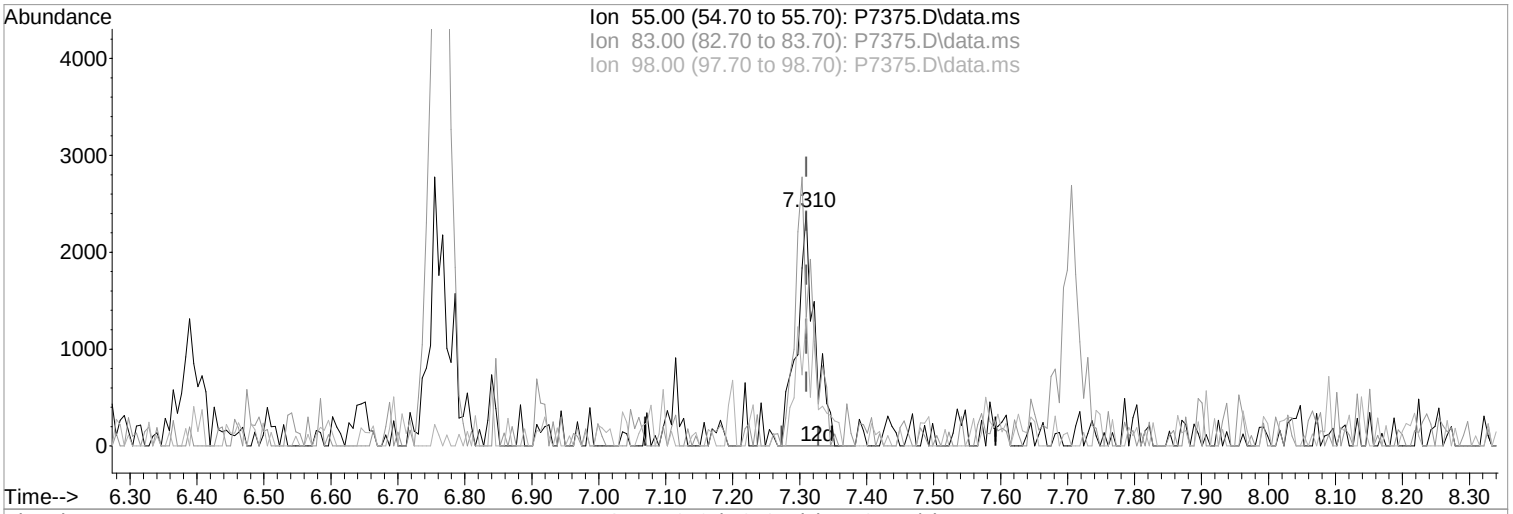
01/05/17

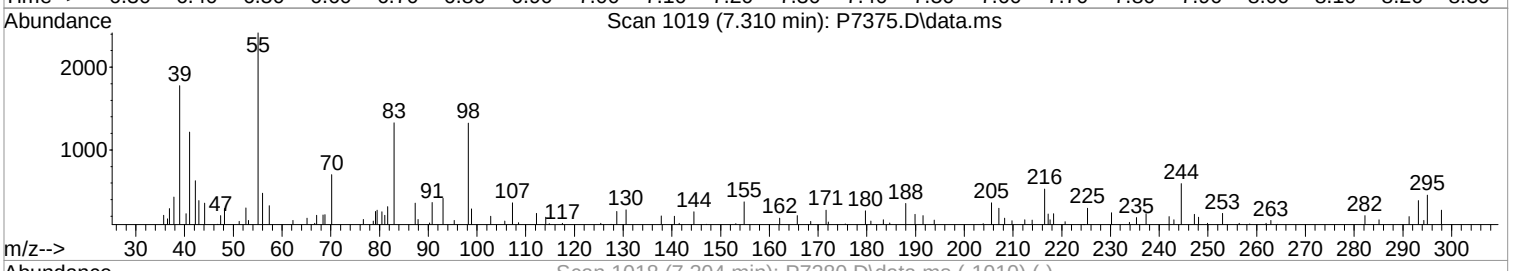
1st 01/05/17
2nd 01/05/17

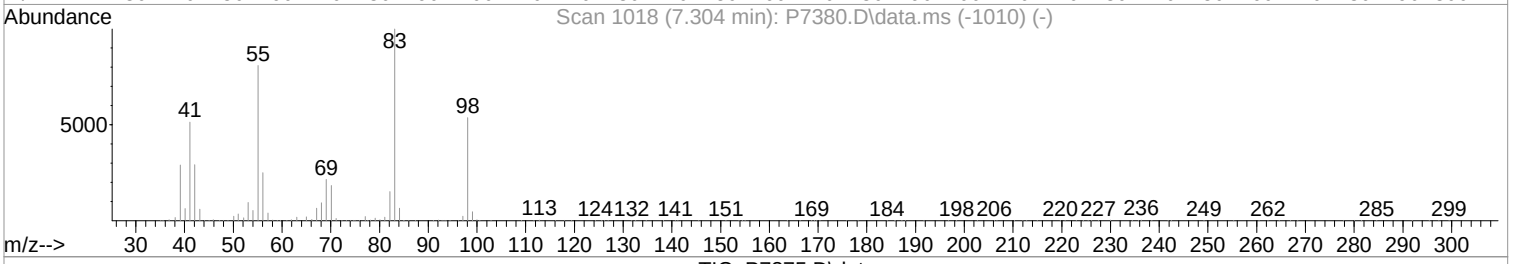
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(55) Methylcyclohexane (P)

7.310min (+0.000) 0.60 ppb m

response 4526

Ion	Exp%	Act%
55.00	100	100
83.00	123.20	54.97#
98.00	66.20	54.88
0.00	0.00	0.00

Manual Integration:

After

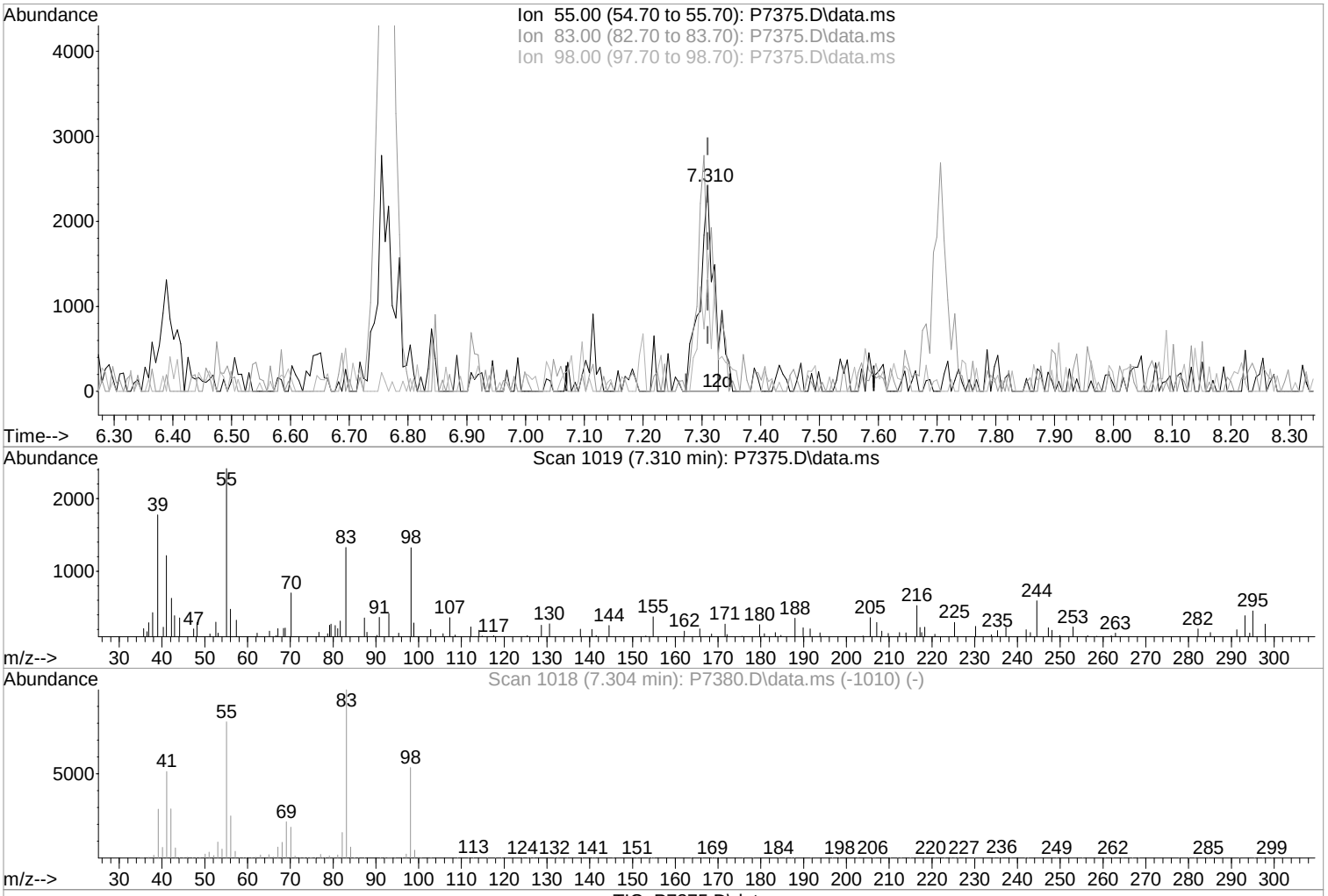
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(55) Methylcyclohexane (P)

7.310min (+0.000) 0.52 ppb

response 3890

Ion	Exp%	Act%
55.00	100	100
83.00	123.20	54.97#
98.00	66.20	54.88
0.00	0.00	0.00

Manual Integration:

Before

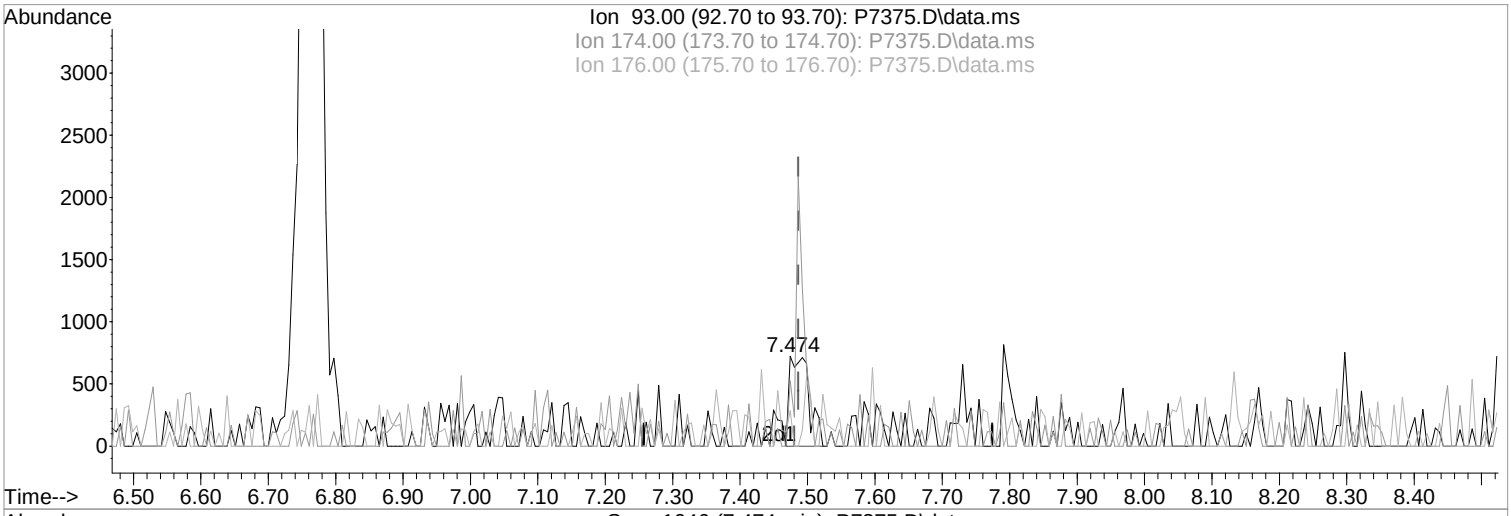
01/05/17

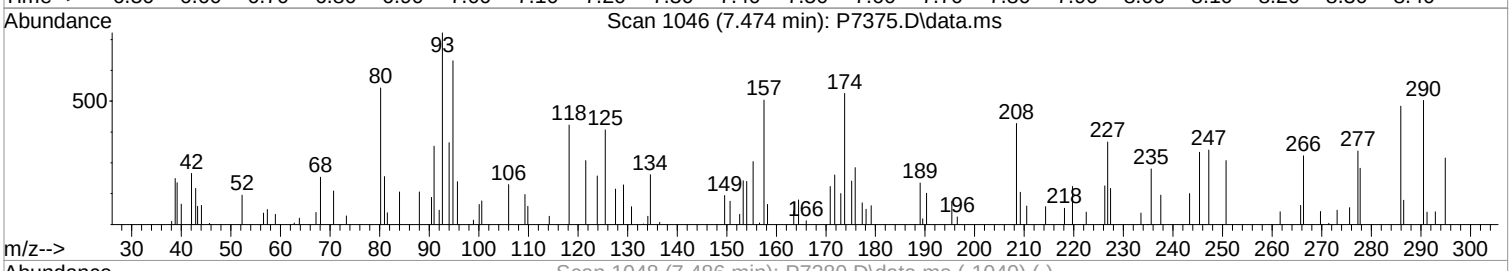
1st 01/05/17
2nd 01/05/17

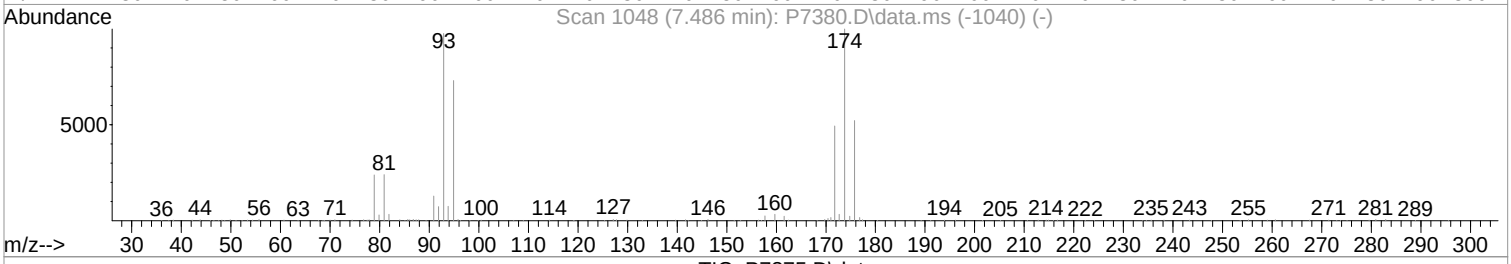
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(57) Dibromomethane

7.474min (-0.012) 0.47 ppb m

response 1480

Ion	Exp%	Act%
93.00	100	100
174.00	102.80	72.71#
176.00	53.50	39.34
0.00	0.00	0.00

Manual Integration:

After

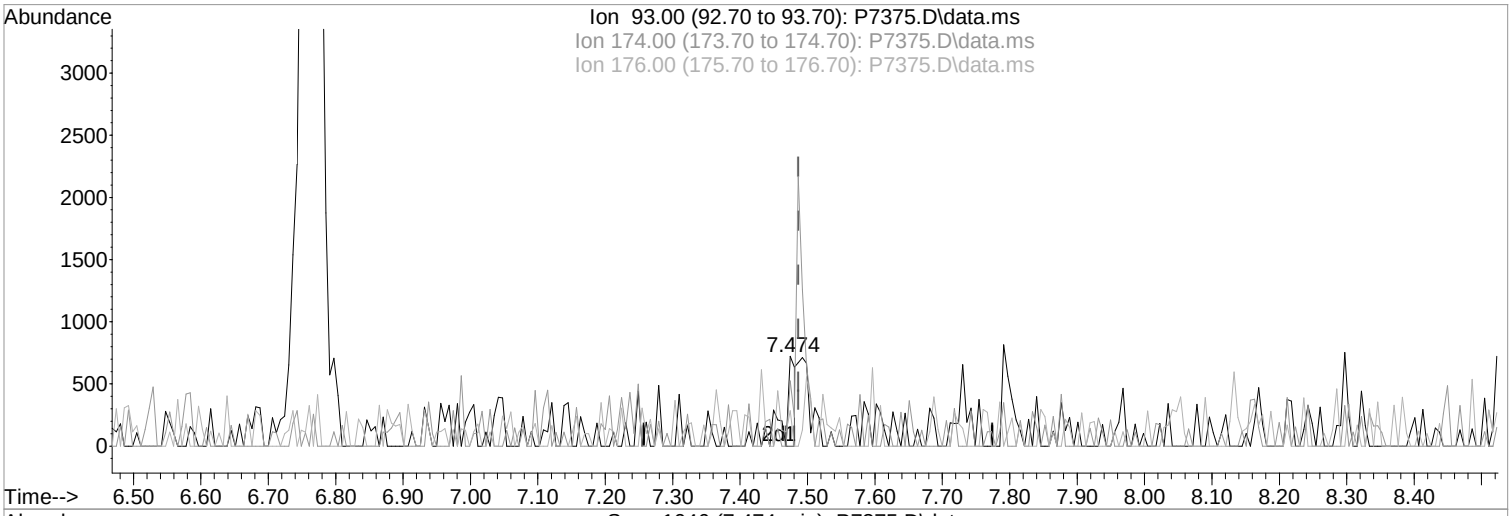
Split Peak

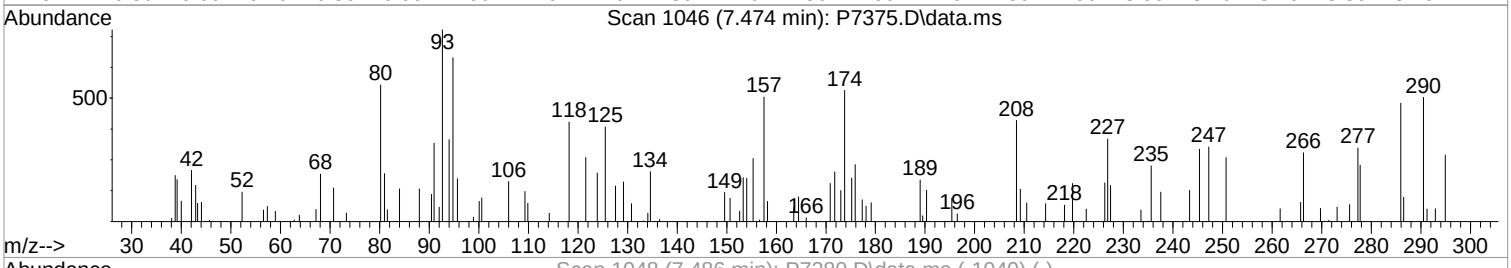
01/05/17

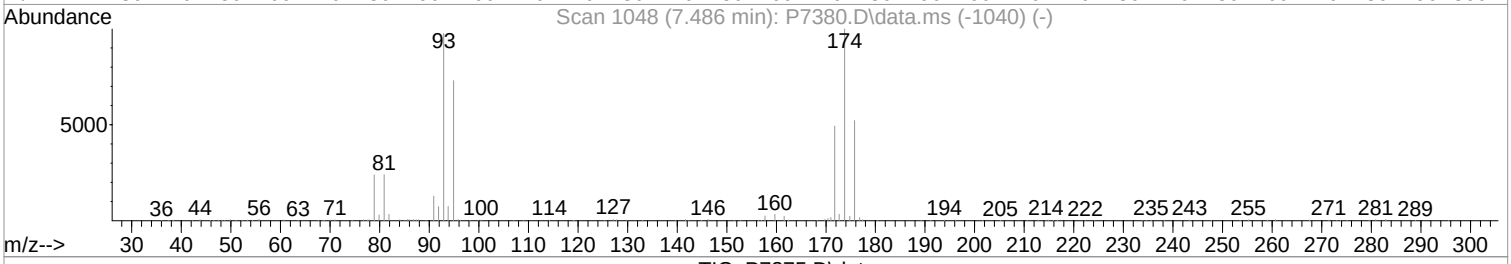
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(57) Dibromomethane

7.474min (-0.012) 0.16 ppb

response 496

Ion	Exp%	Act%
93.00	100	100
174.00	102.80	72.71#
176.00	53.50	39.34
0.00	0.00	0.00

Manual Integration:

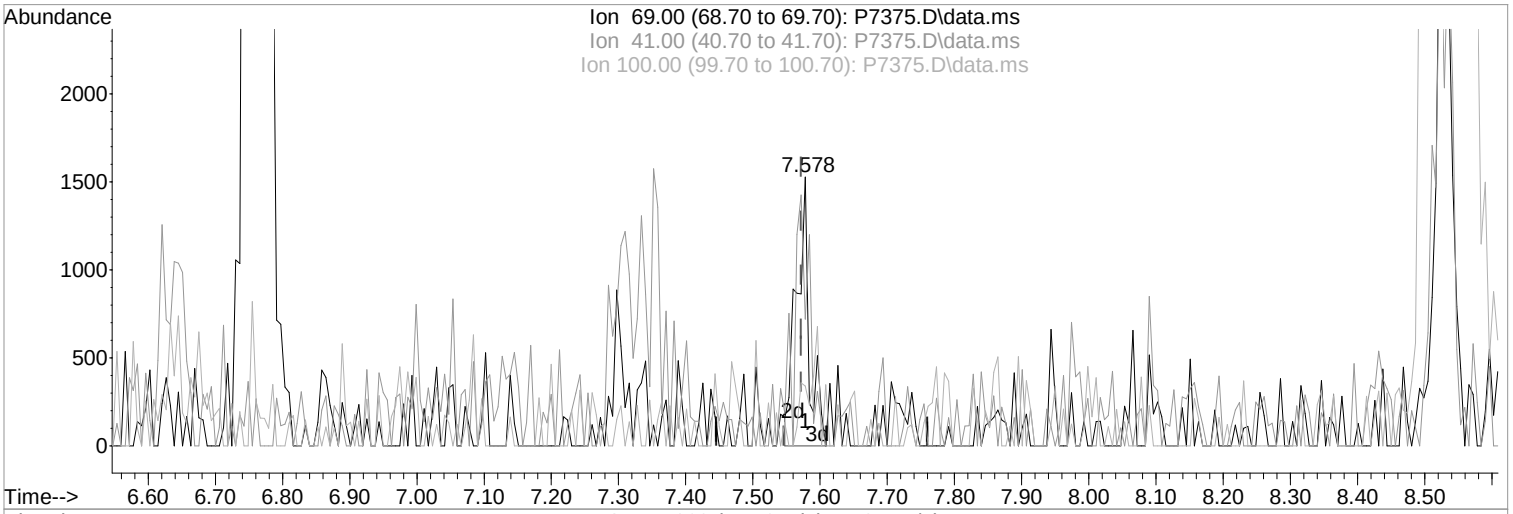
Before

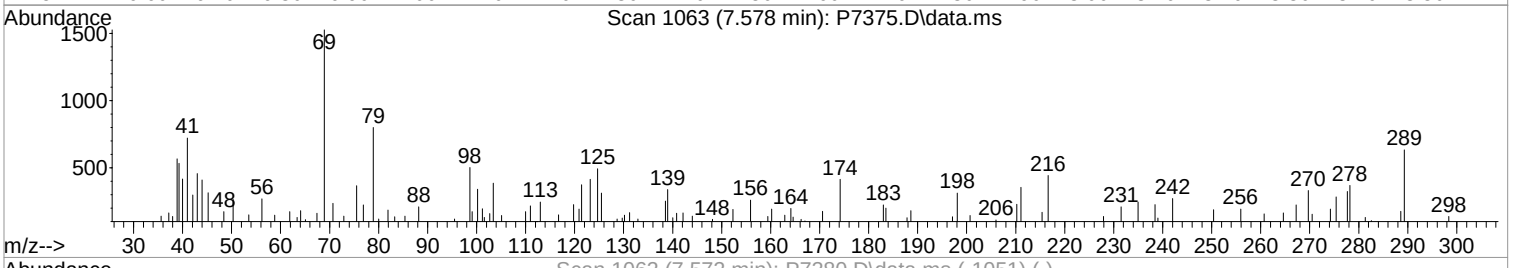
01/05/17

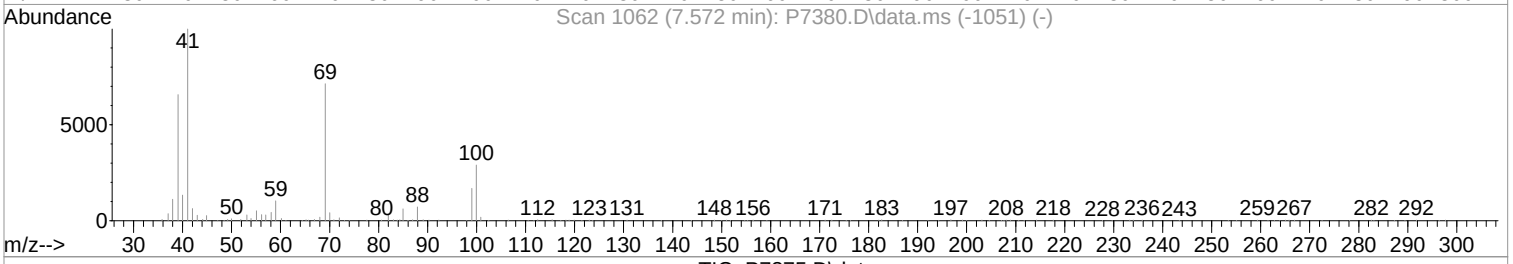
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(59) Methyl Methacrylate

7.578min (+0.006) 0.68 ppb m

response 2032

Ion	Exp%	Act%
69.00	100	100
41.00	141.20	47.12#
100.00	40.80	22.25
0.00	0.00	0.00

Manual Integration:

After

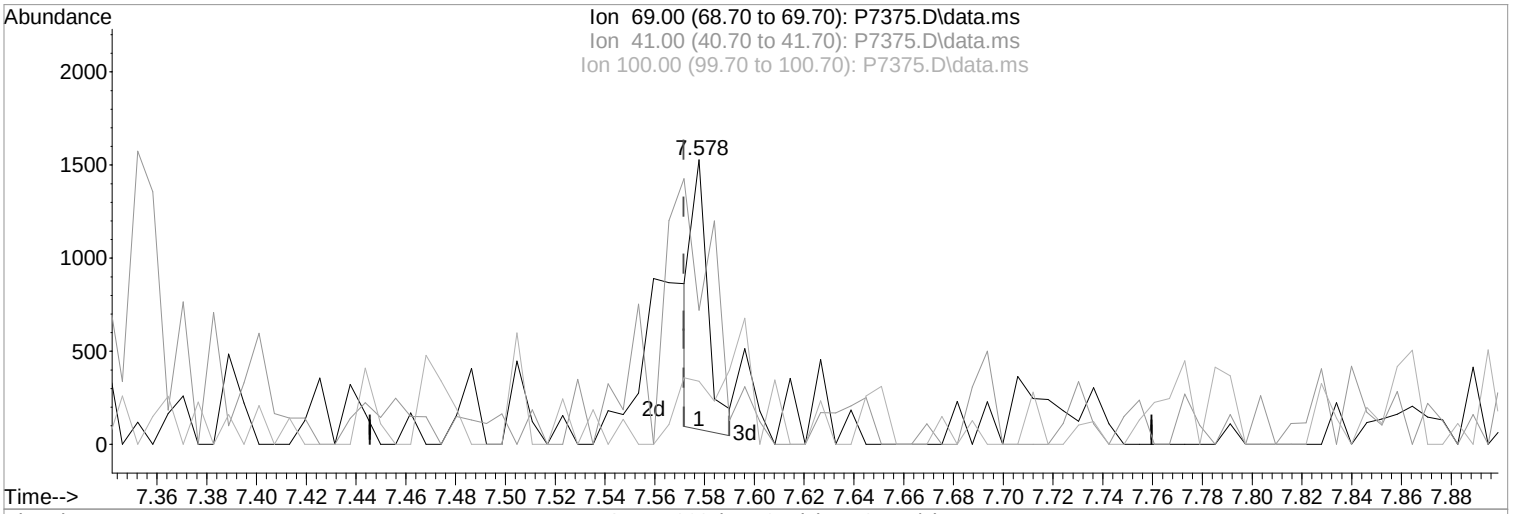
Split Peak

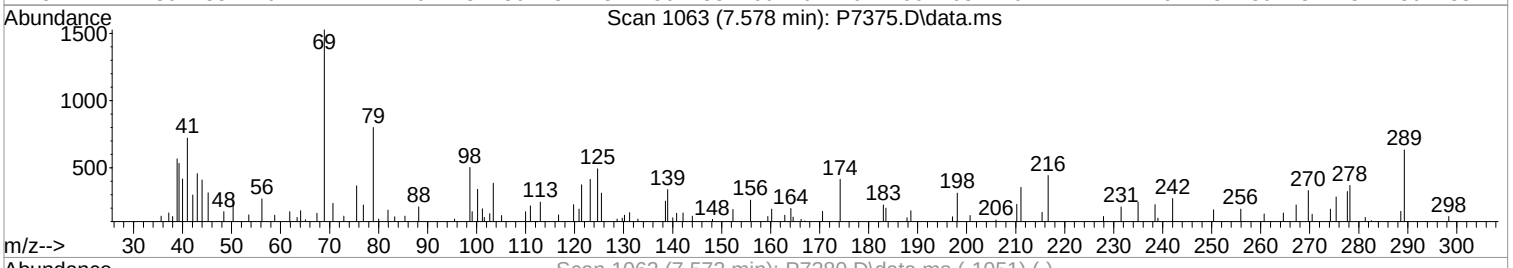
01/05/17

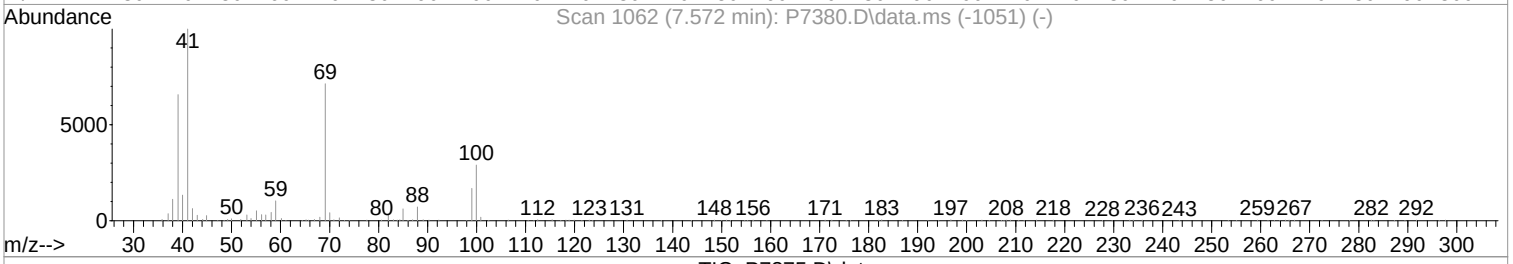
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(59) Methyl Methacrylate

7.578min (+0.006) 0.22 ppb

response 639

Ion	Exp%	Act%
69.00	100	100
41.00	141.20	47.12#
100.00	40.80	22.25
0.00	0.00	0.00

Manual Integration:

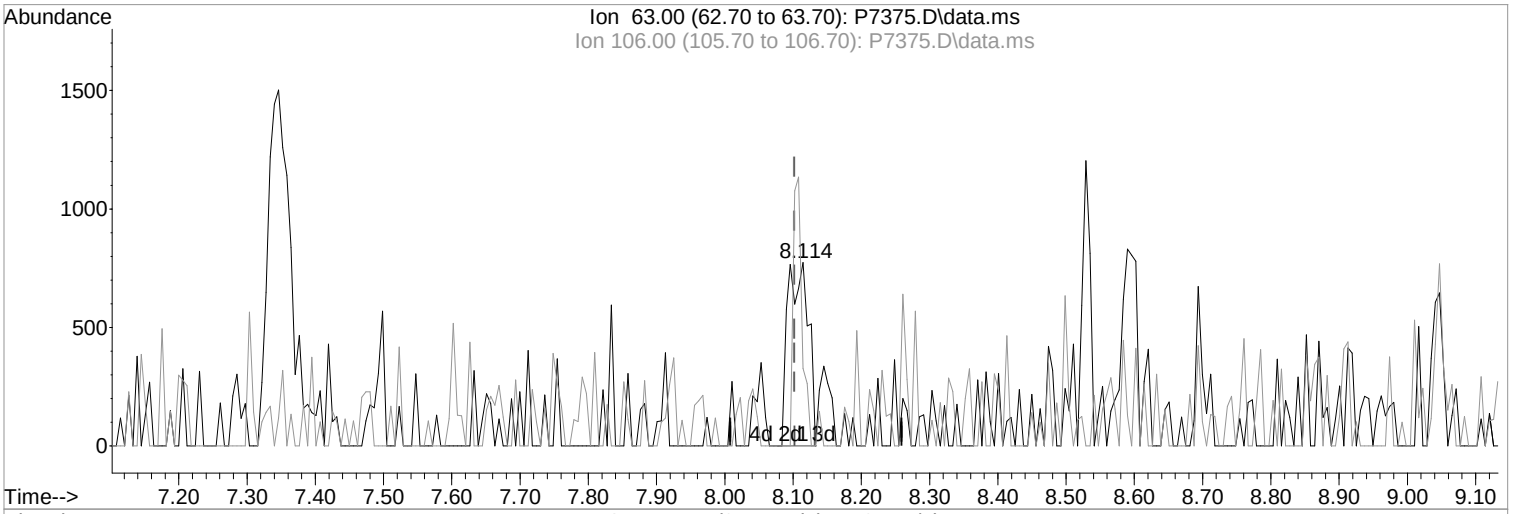
Before

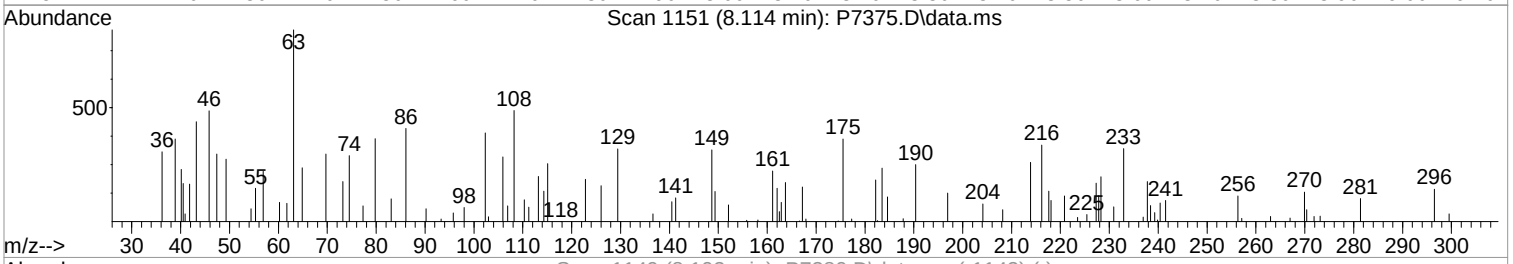
01/05/17

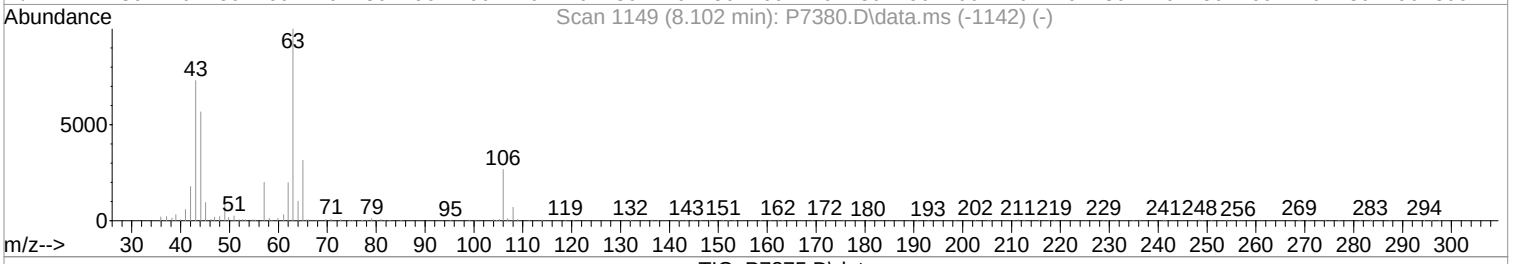
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(62) 2-Chloroethylvinyl Ether

8.114min (+0.012) 0.54 ppb m

response 1609

Ion	Exp%	Act%
63.00	100	100
106.00	26.60	42.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

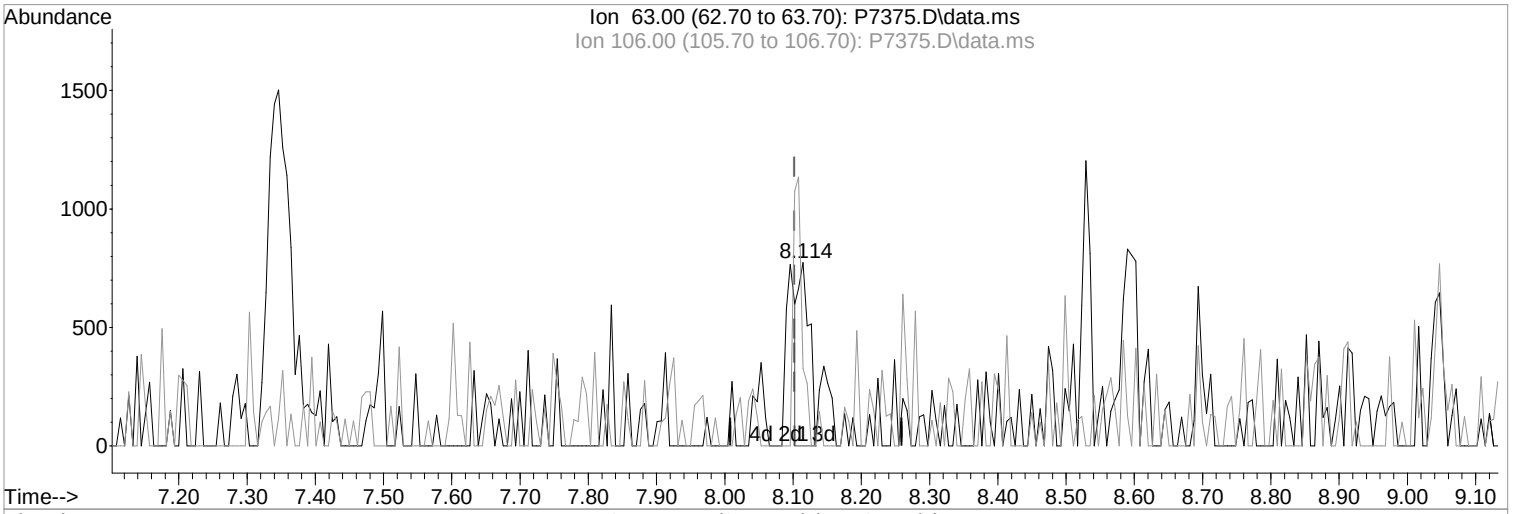
Split Peak

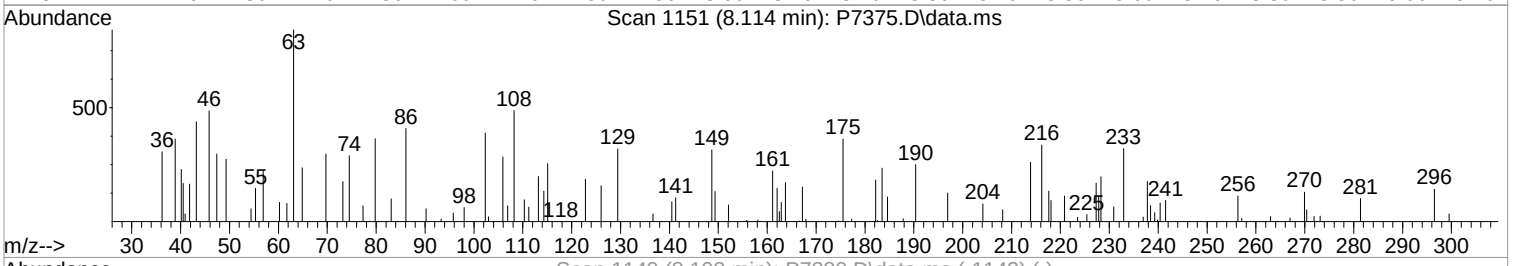
01/05/17

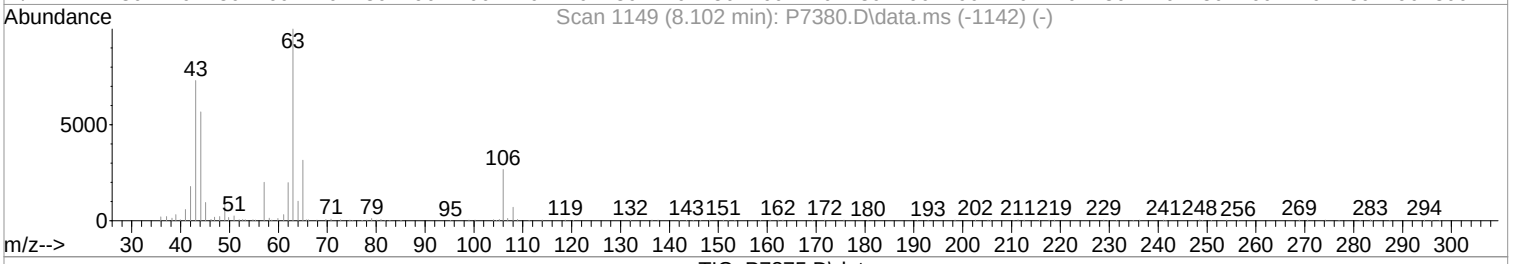
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(62) 2-Chloroethylvinyl Ether

8.114min (+0.012) 0.30 ppb

response 900

Ion	Exp%	Act%
63.00	100	100
106.00	26.60	42.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

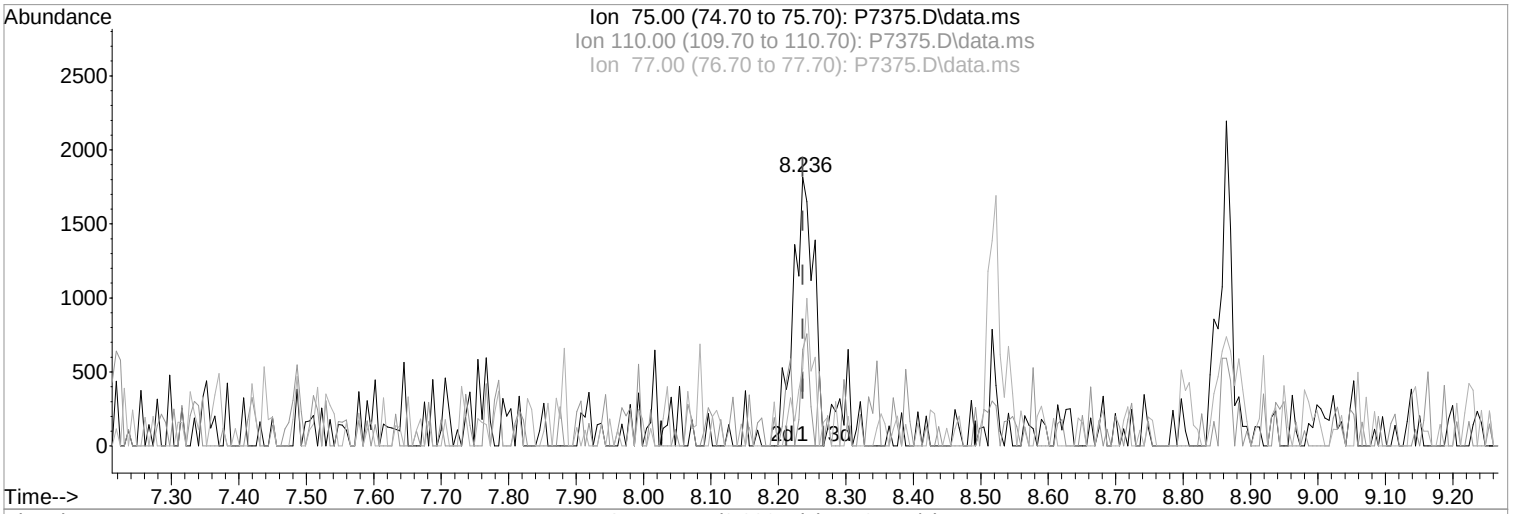
01/05/17

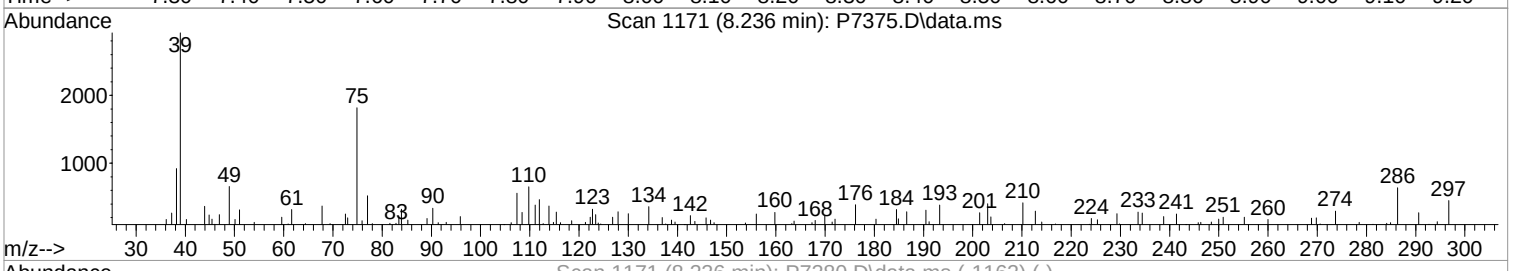
1st 01/05/17
2nd 01/05/17

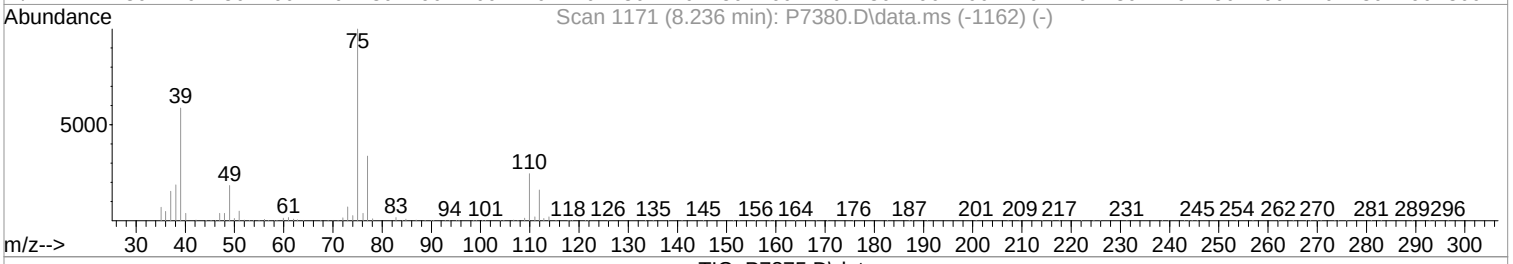
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(63) cis-1,3-Dichloropropene (P)

8.236min (+0.000) 0.43 ppb m

response 3815

Ion	Exp%	Act%
75.00	100	100
110.00	24.40	35.88
77.00	33.90	28.67
0.00	0.00	0.00

Manual Integration:

After

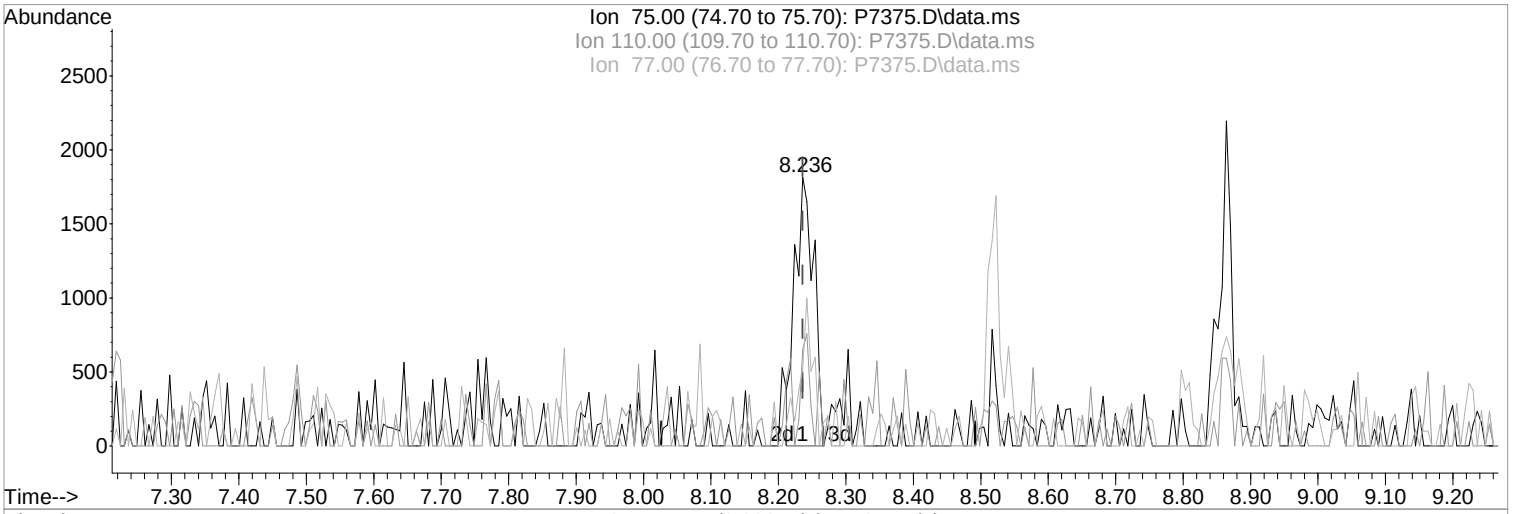
Split Peak

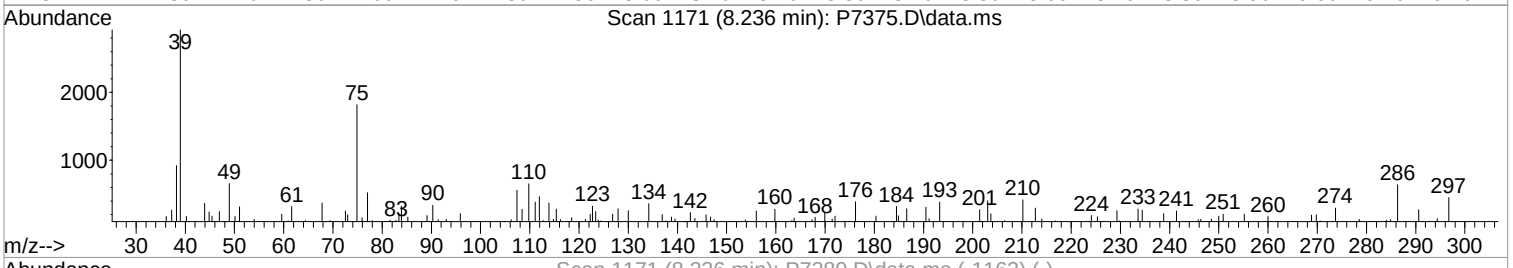
01/05/17

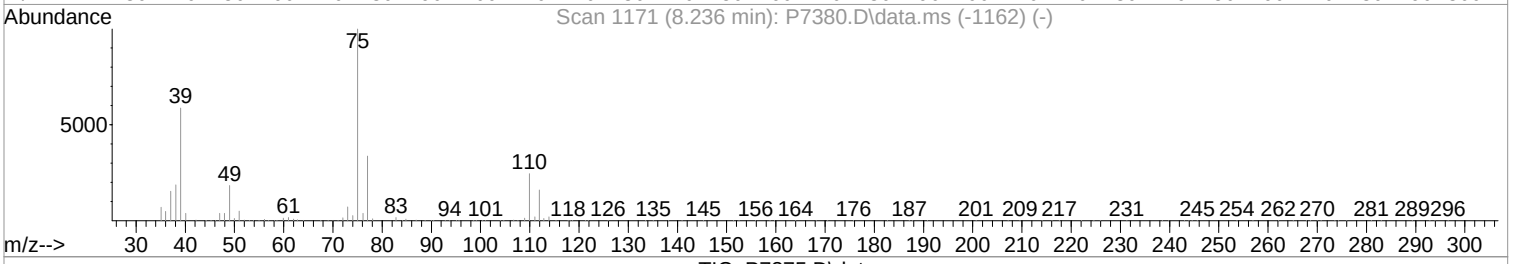
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(63) cis-1,3-Dichloropropene (P)

8.236min (+0.000) 0.39 ppb

response 3482

Ion	Exp%	Act%
75.00	100	100
110.00	24.40	35.88
77.00	33.90	28.67
0.00	0.00	0.00

Manual Integration:

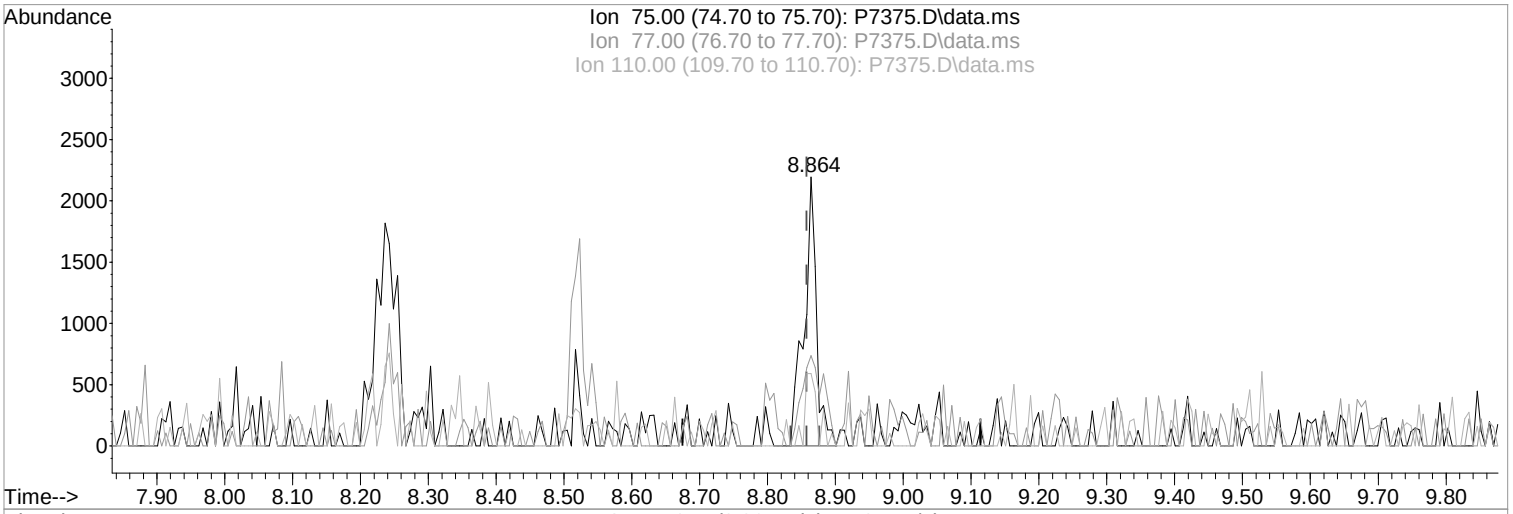
Before

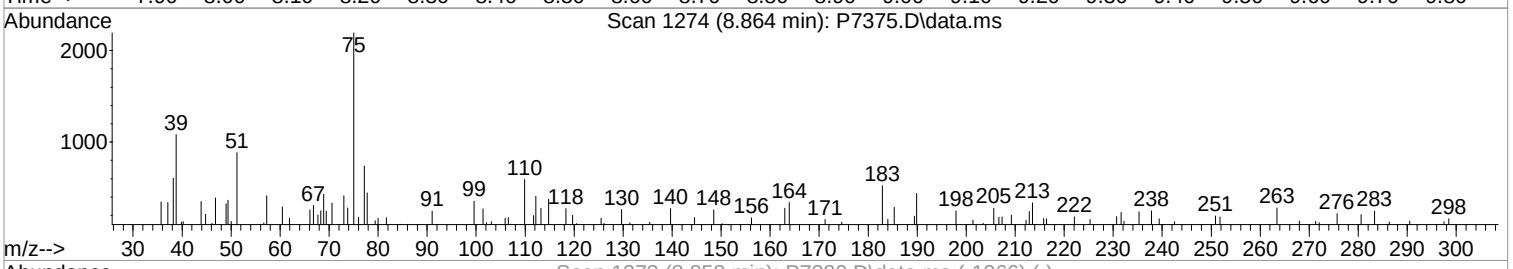
01/05/17

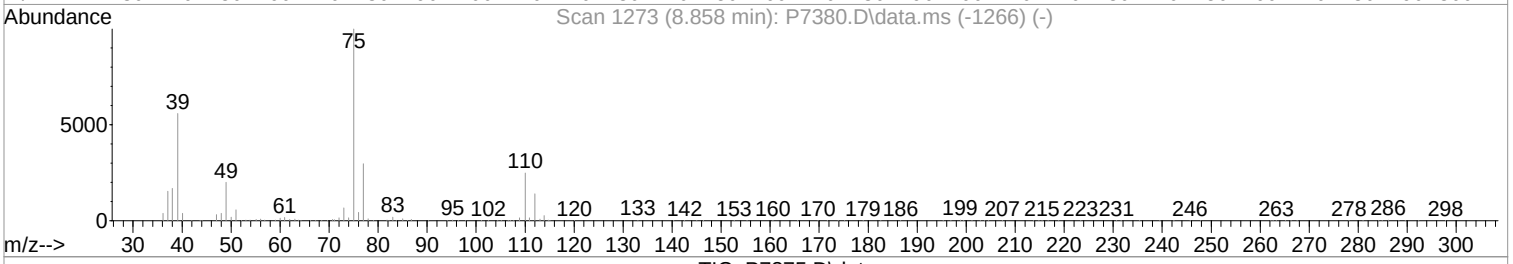
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(67) trans-1,3-Dichloropropene (P)

8.864min (+0.006) 0.39 ppb m

response 2828

Ion	Exp%	Act%
75.00	100	100
77.00	29.70	33.58
110.00	24.70	26.97
0.00	0.00	0.00

Manual Integration:

After

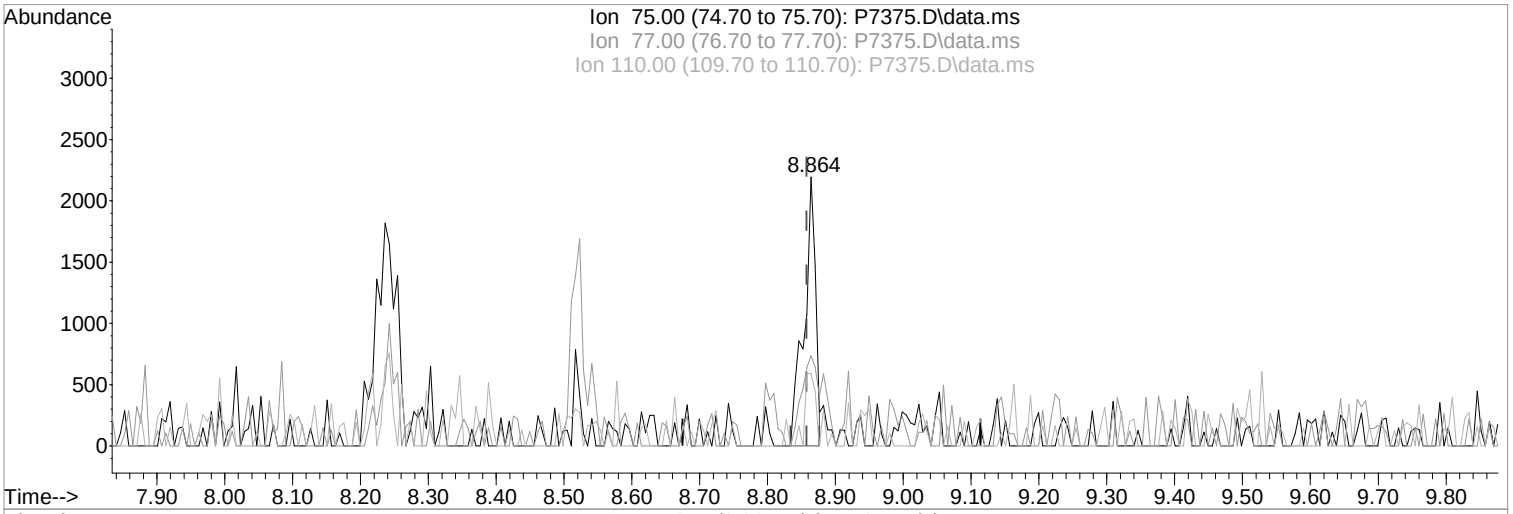
Split Peak

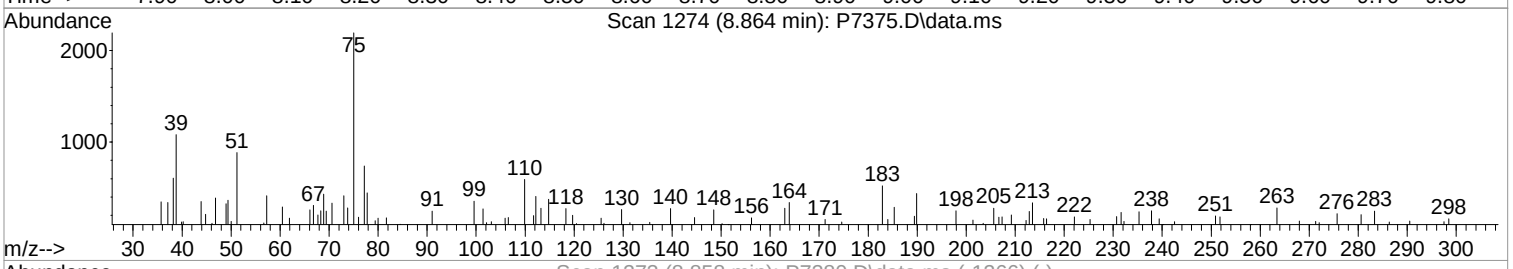
01/05/17

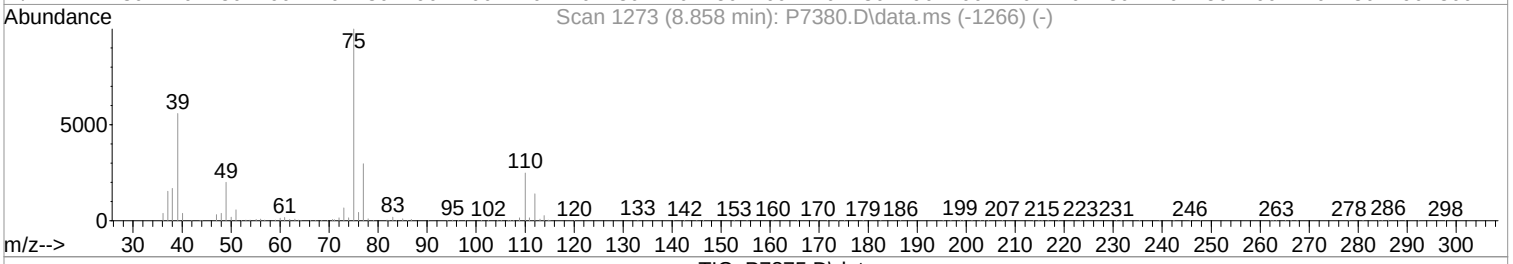
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(67) trans-1,3-Dichloropropene (P)

8.864min (+0.006) 0.36 ppb

response 2611

Ion	Exp%	Act%
75.00	100	100
77.00	29.70	33.58
110.00	24.70	26.97
0.00	0.00	0.00

Manual Integration:

Before

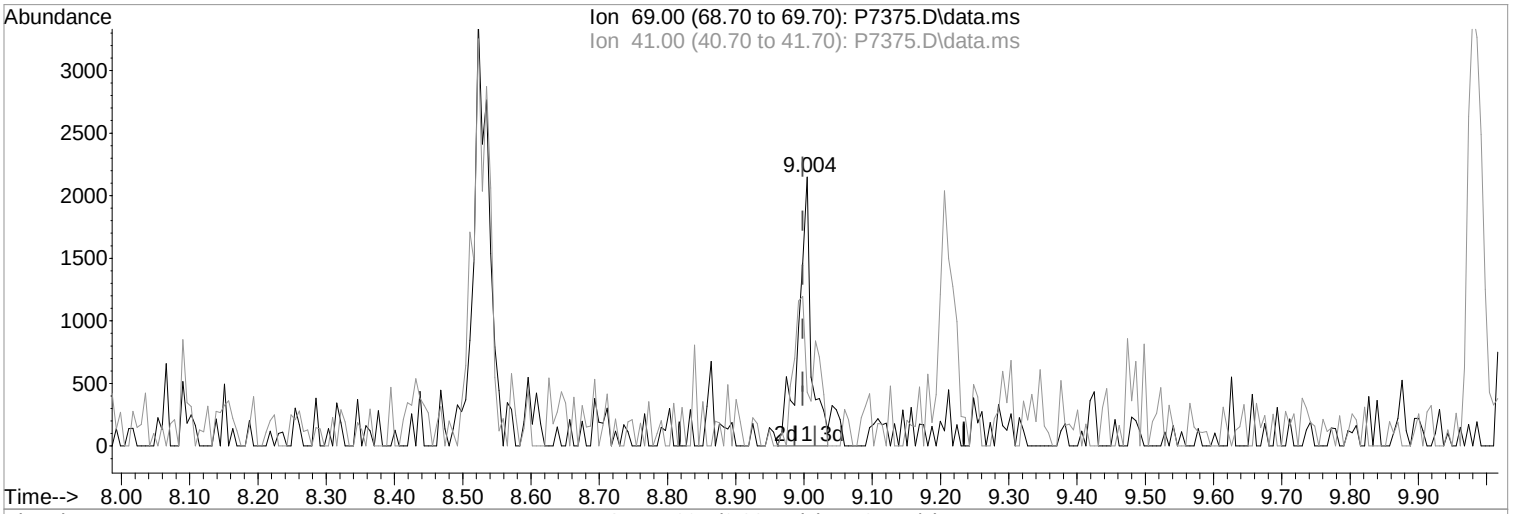
01/05/17

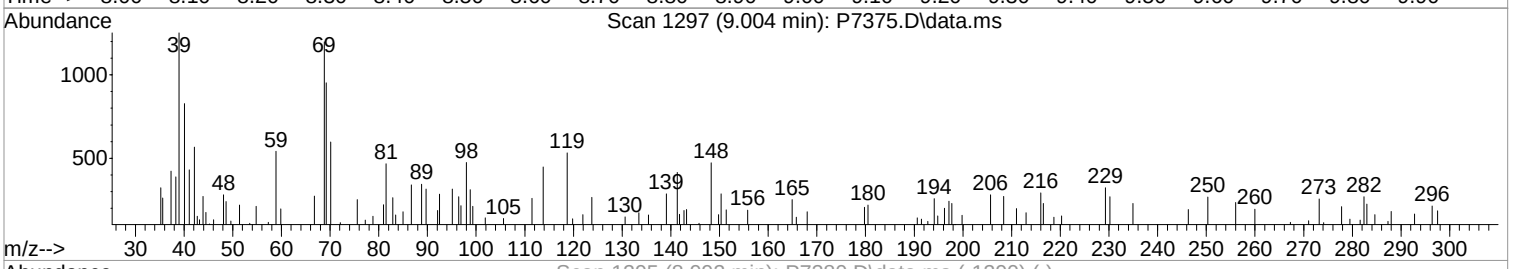
1st 01/05/17
2nd 01/05/17

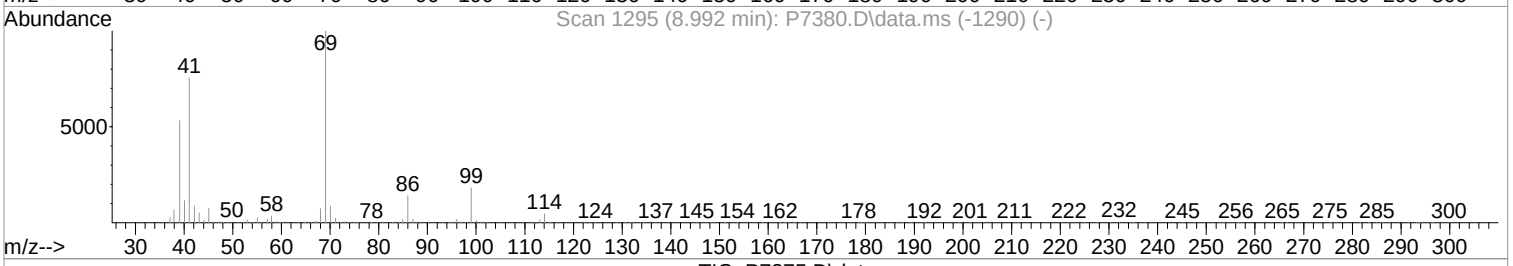
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(68) Ethyl Methacrylate

9.004min (+0.006) 0.49 ppb m

response 2791

Ion	Exp%	Act%
69.00	100	100
41.00	75.90	36.01#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

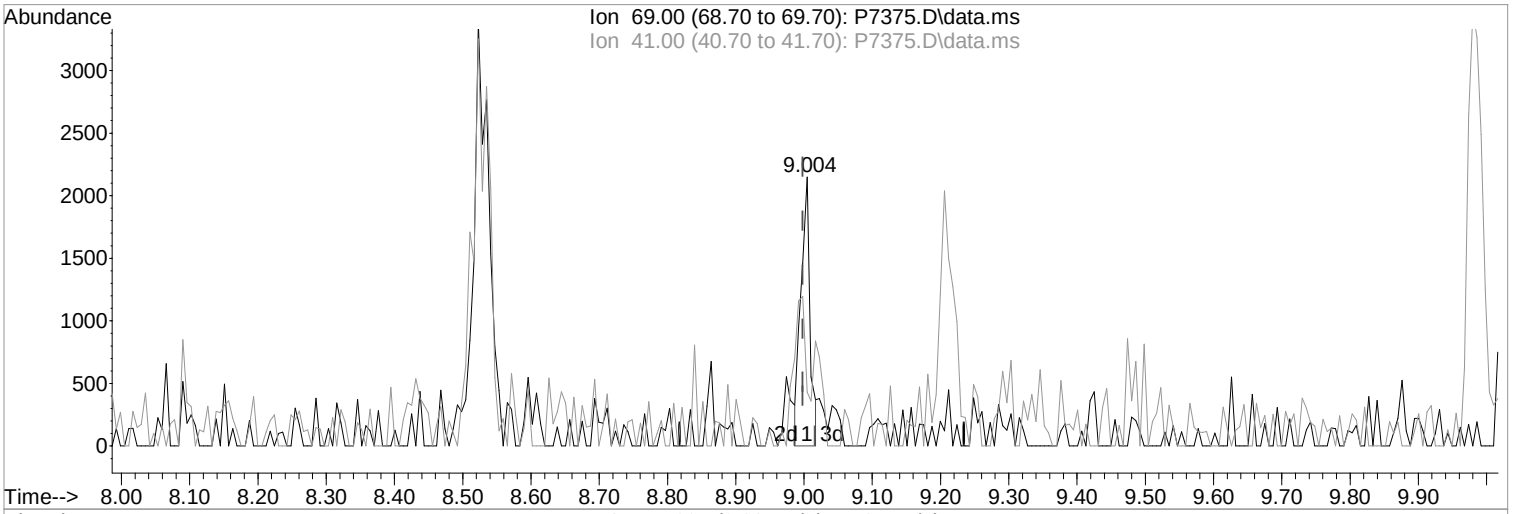
01/05/17

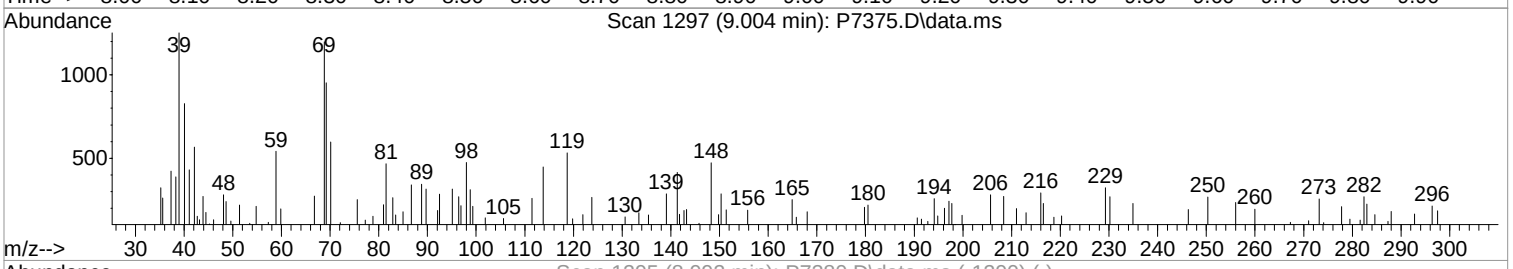
1st 01/05/17
2nd 01/05/17

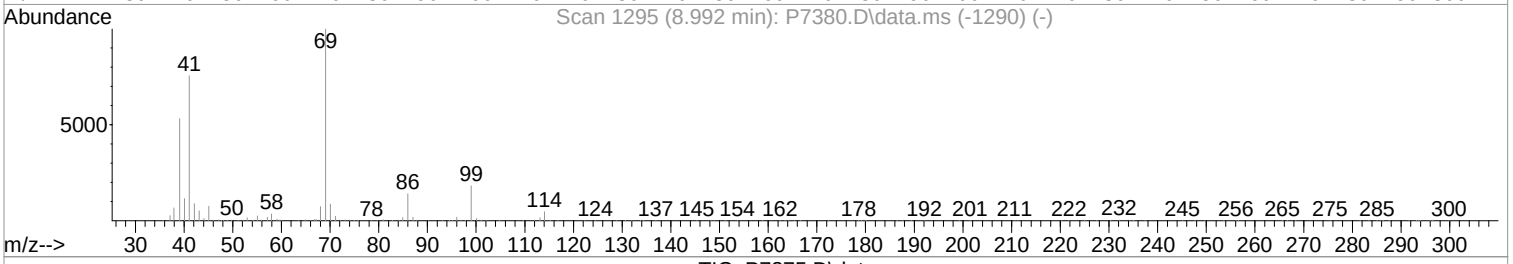
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(68) Ethyl Methacrylate

9.004min (+0.006) 0.35 ppb

response 2003

Ion	Exp%	Act%
69.00	100	100
41.00	75.90	20.06#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

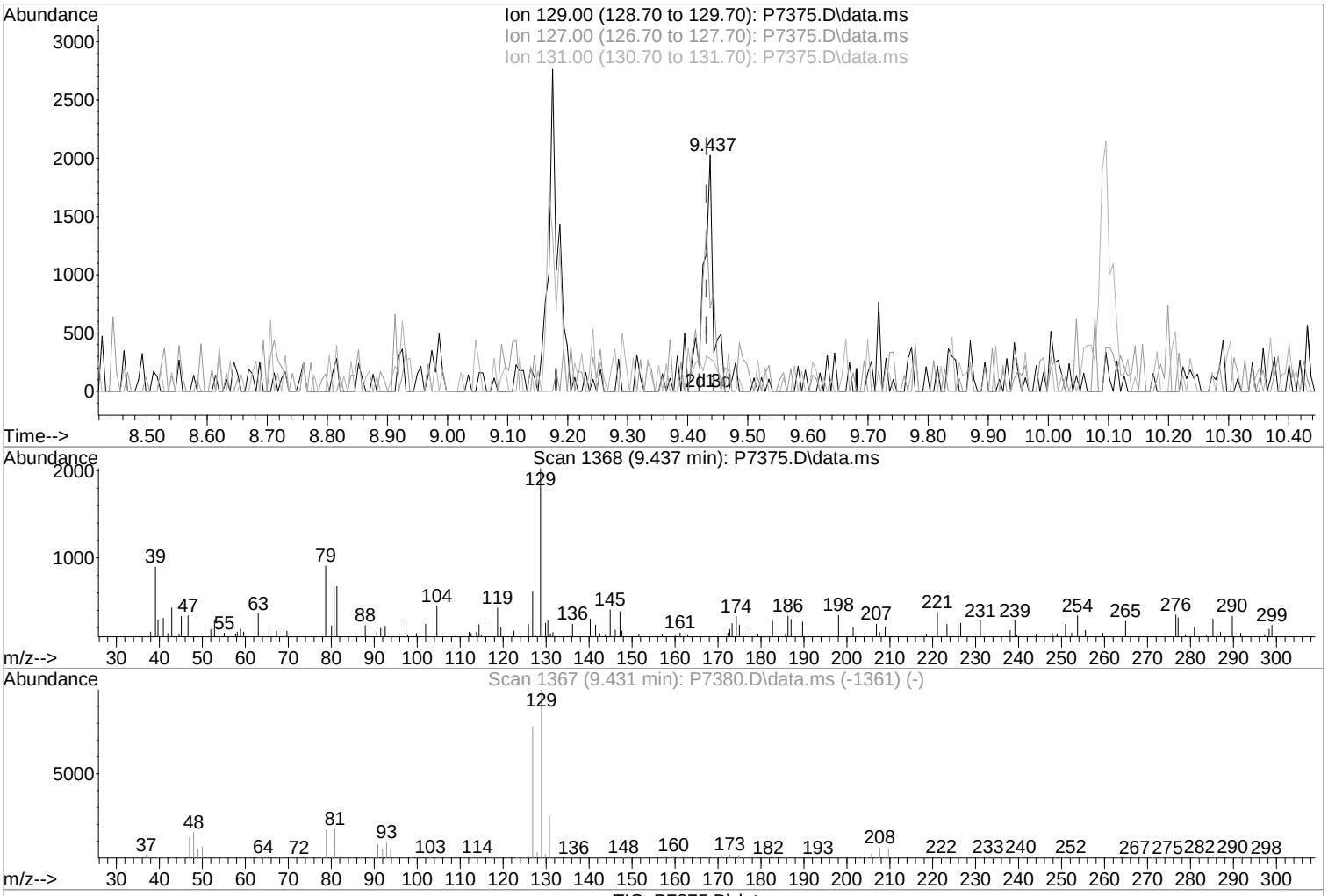
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(75) Dibromochloromethane (P)

9.437min (+0.006) 0.51 ppb m

response 2370

Ion	Exp%	Act%
129.00	100	100
127.00	78.20	30.22#
131.00	24.90	7.21
0.00	0.00	0.00

Manual Integration:

After

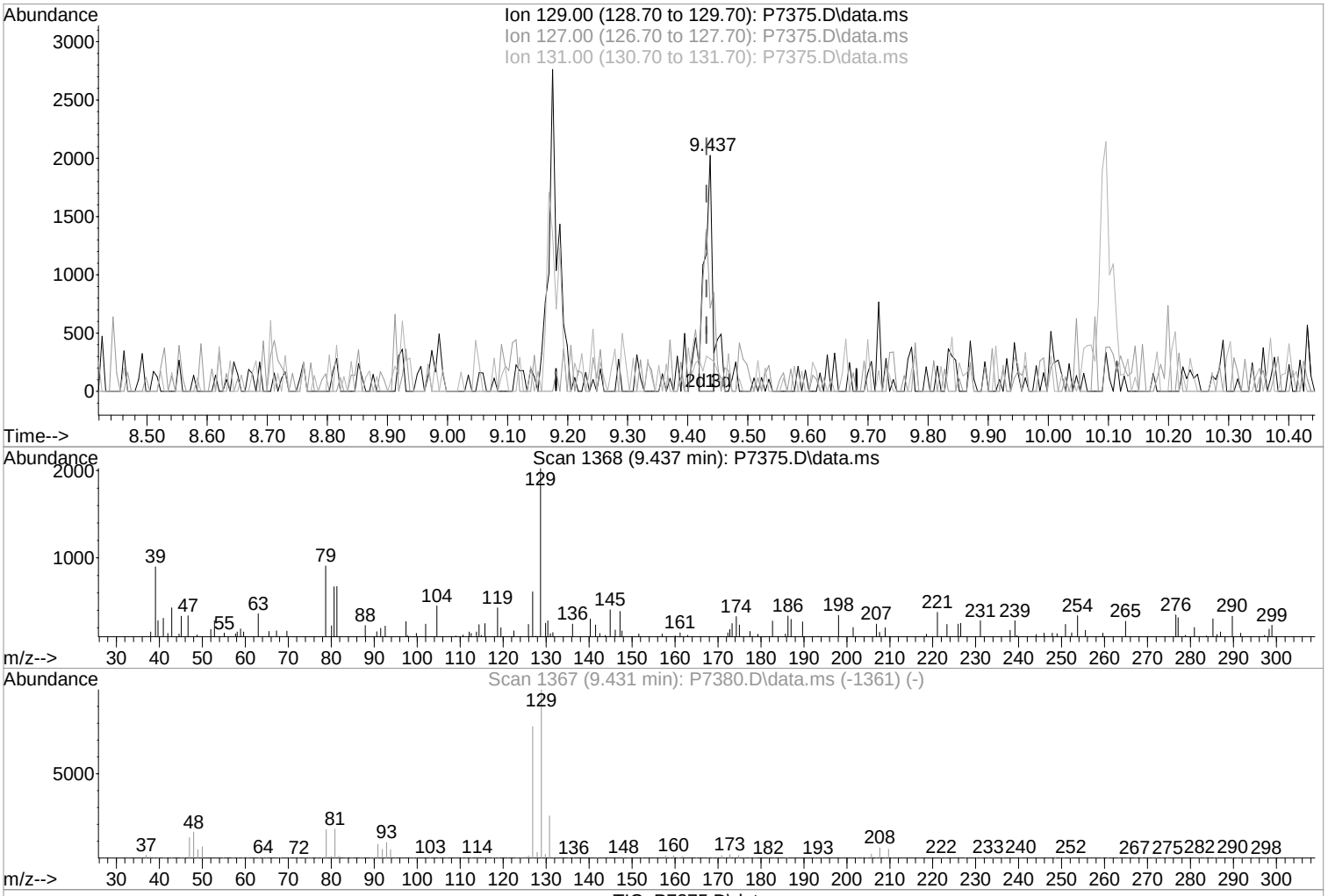
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(75) Dibromochloromethane (P)

9.437min (+0.006) 0.37 ppb

response 1691

Ion	Exp%	Act%
129.00	100	100
127.00	78.20	35.36#
131.00	24.90	13.88
0.00	0.00	0.00

Manual Integration:

Before

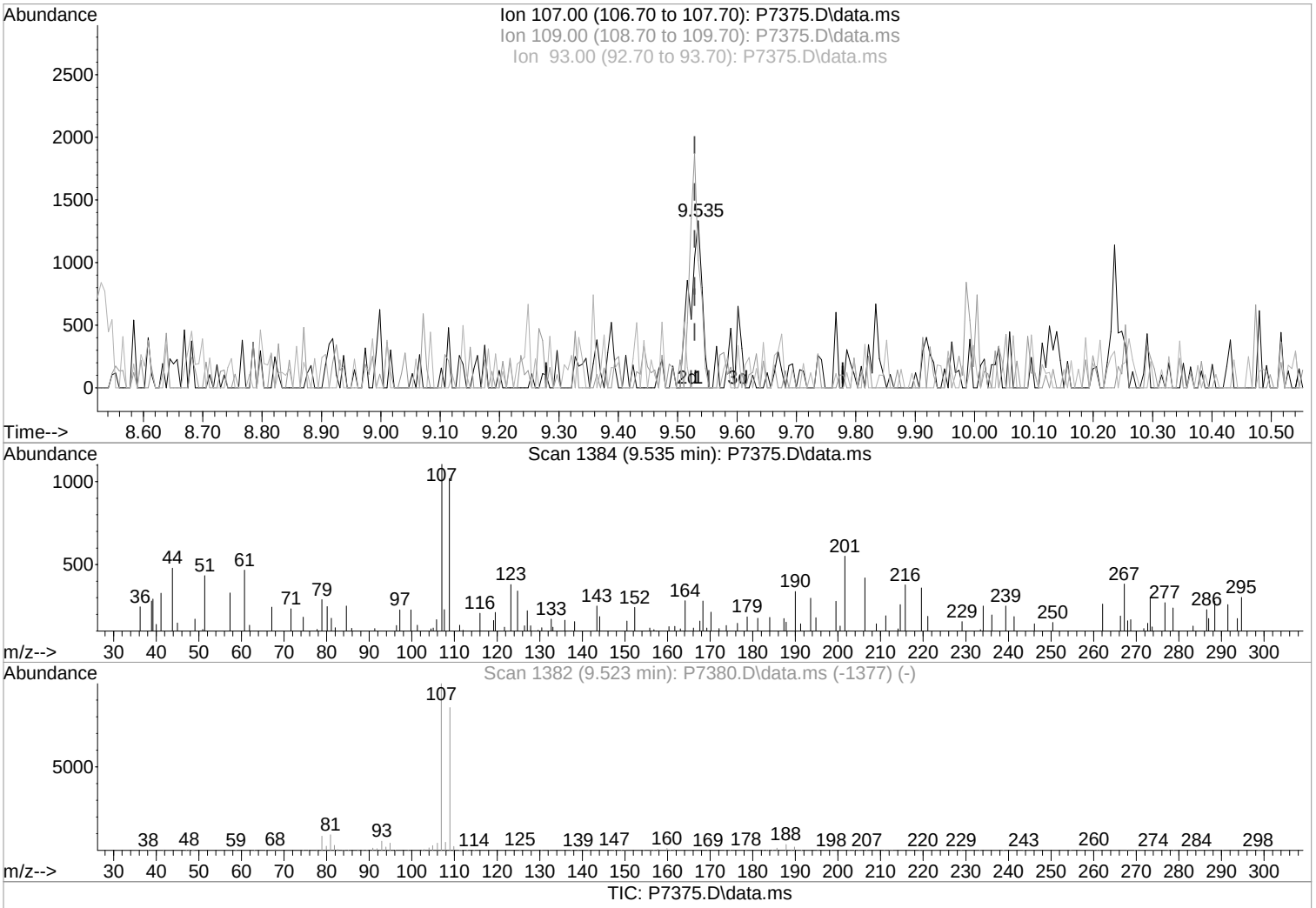
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(77) 1,2-Dibromoethane (P)

9.535min (+0.006) 0.46 ppb m

response 1941

Ion	Exp%	Act%
107.00	100	100
109.00	85.50	92.13
93.00	5.50	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

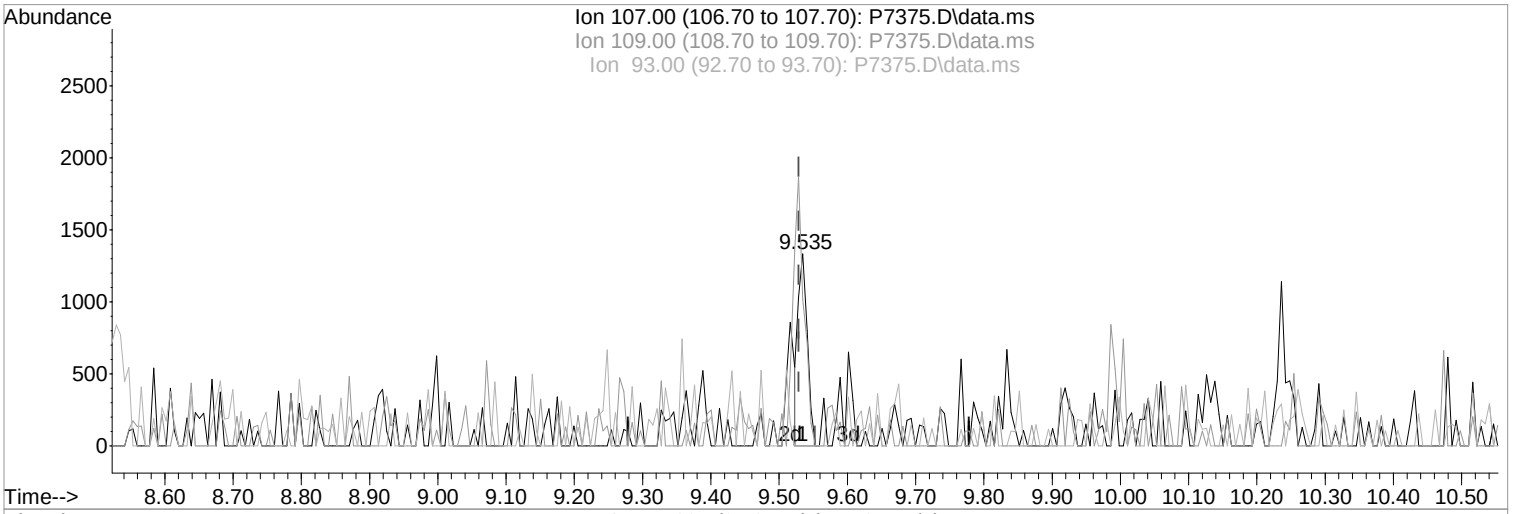
01/05/17

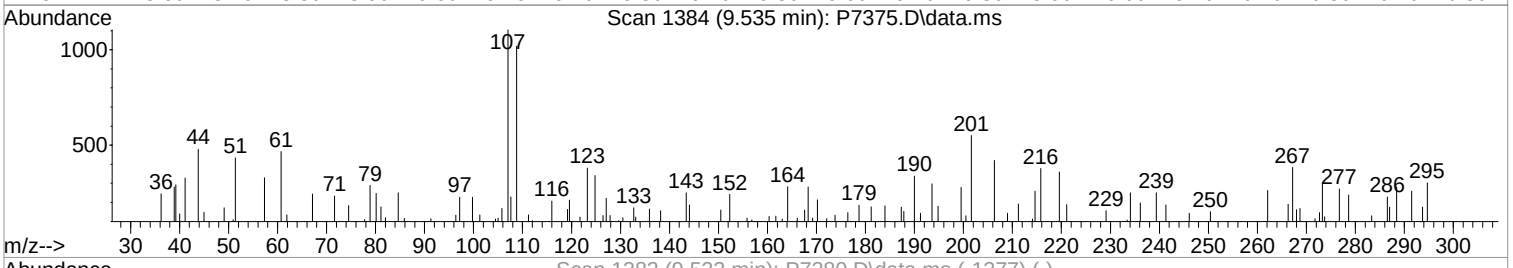
1st 01/05/17
2nd 01/05/17

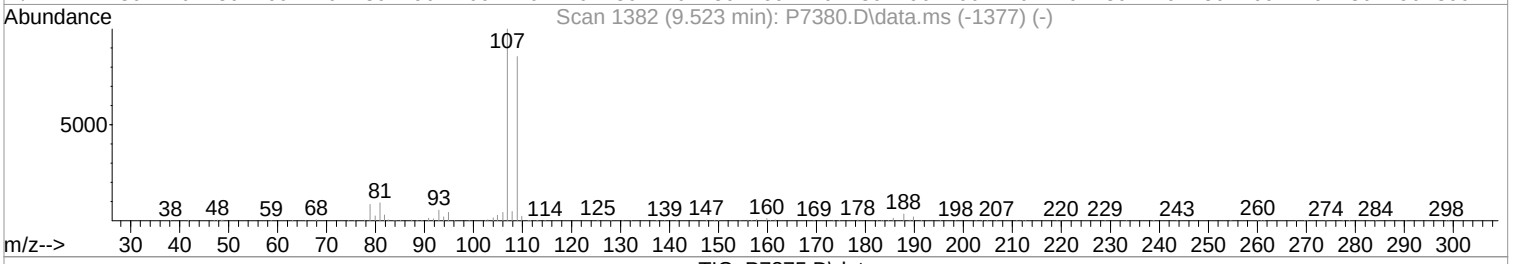
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(77) 1,2-Dibromoethane (P)

9.535min (+0.006) 0.30 ppb

response 1253

Ion	Exp%	Act%
107.00	100	100
109.00	85.50	76.37
93.00	5.50	0.00
0.00	0.00	0.00

Manual Integration:

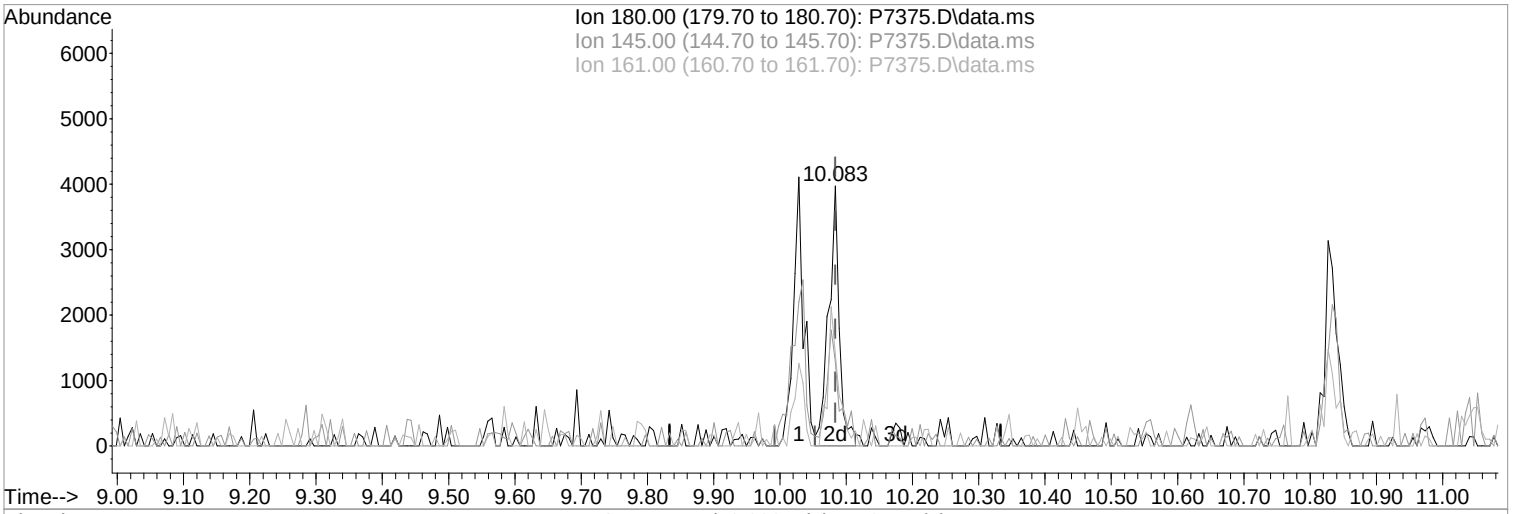
Before

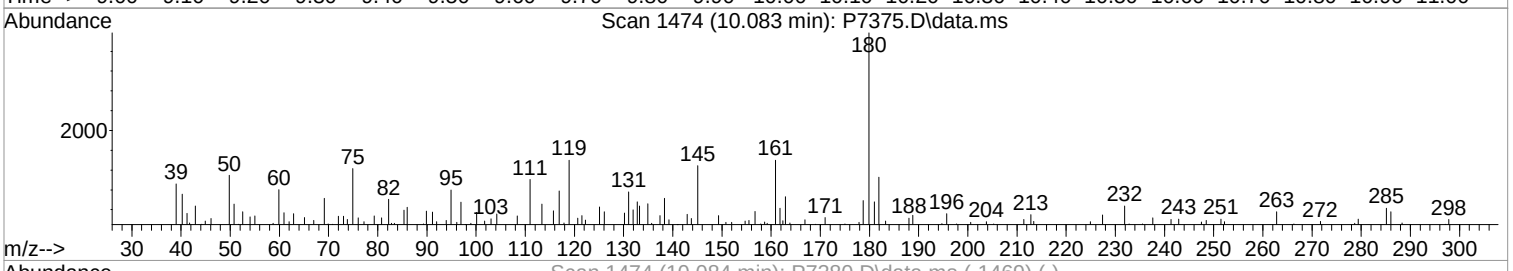
01/05/17

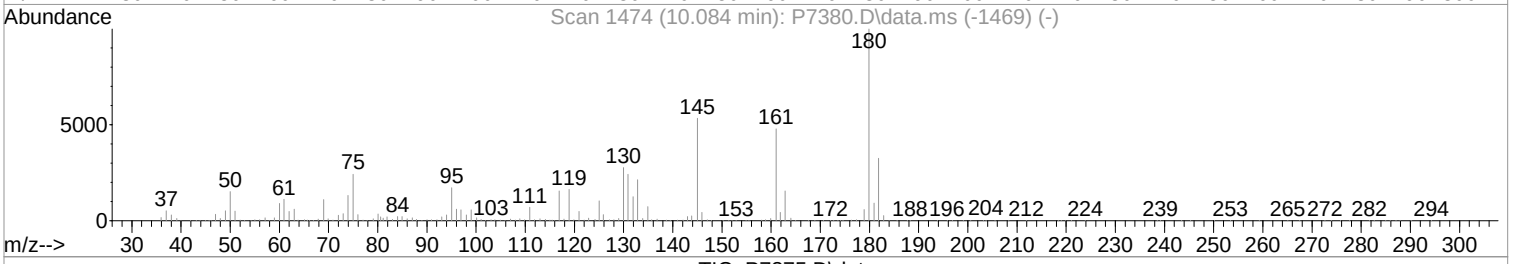
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(80) 4-CBTF

10.083min (+0.000) 0.51 ppb m

response 4477

Ion	Exp%	Act%
180.00	100	100
145.00	53.40	32.40#
161.00	47.80	35.19
0.00	0.00	0.00

Manual Integration:

After

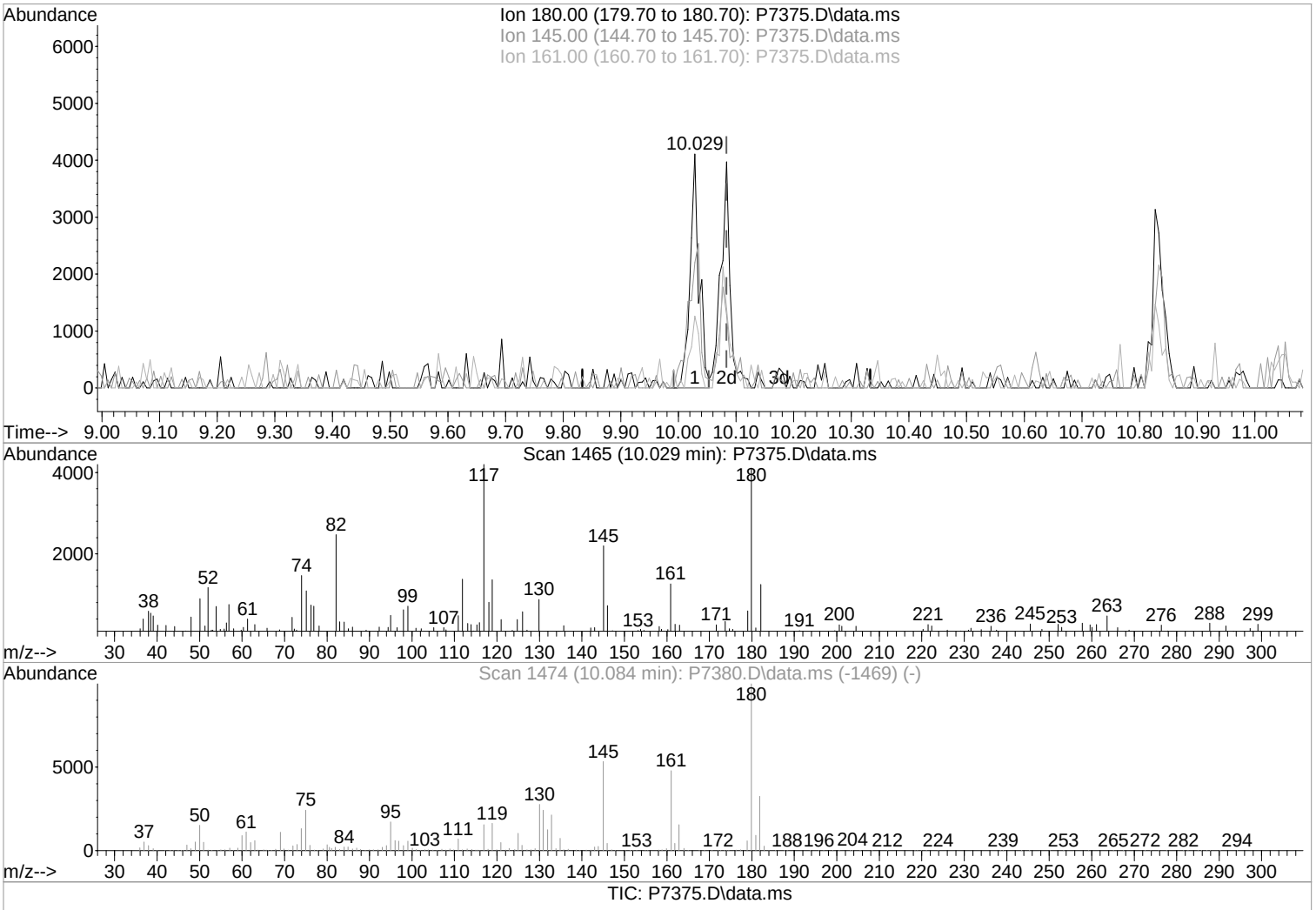
Wrong peak selected.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(80) 4-CBTF

10.029min (-0.055) 0.52 ppb

response 4525

Ion	Exp%	Act%
180.00	100	100
145.00	53.40	53.55
161.00	47.80	30.75
0.00	0.00	0.00

Manual Integration:

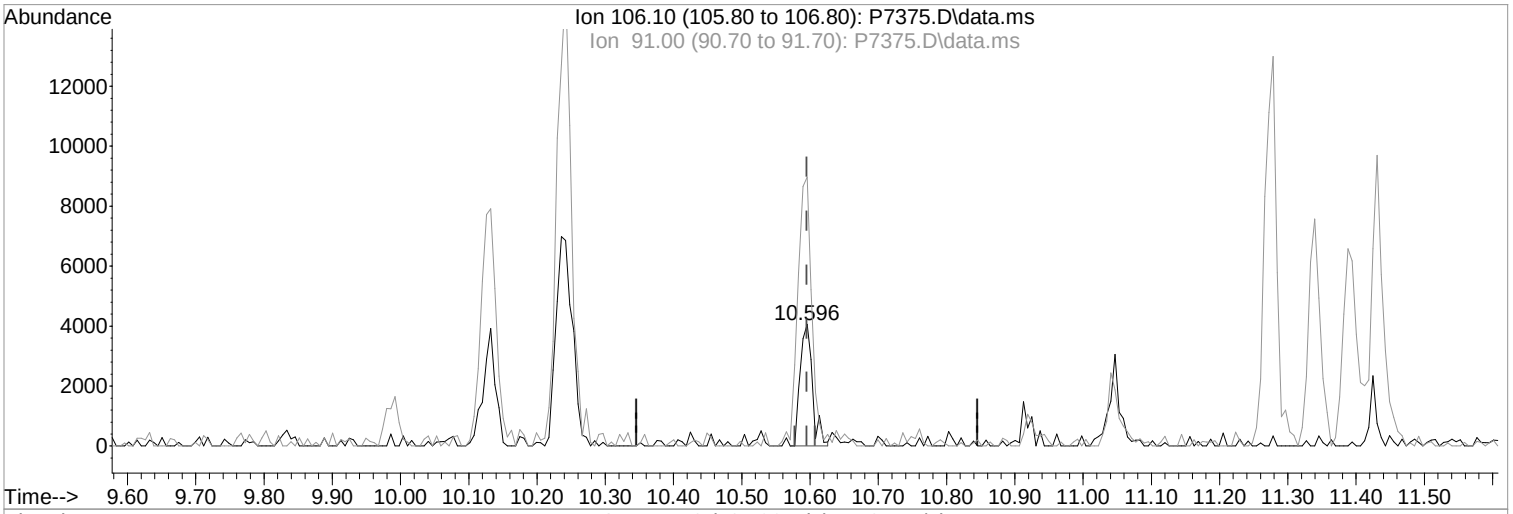
Before

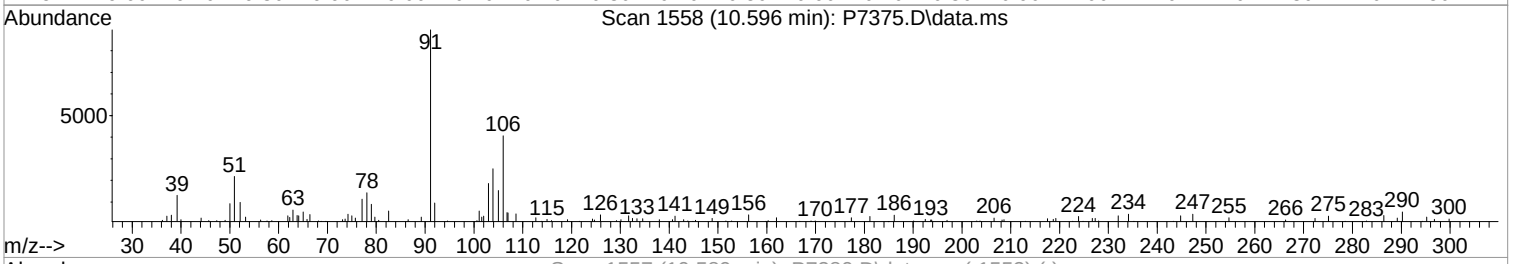
01/05/17

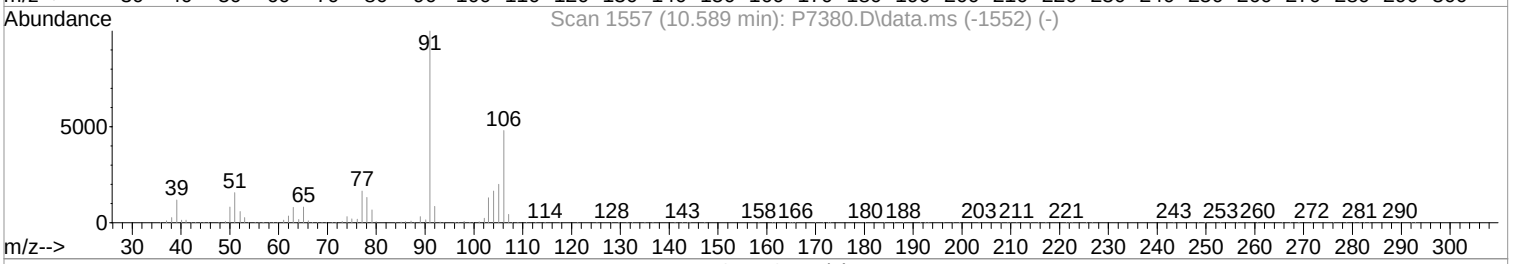
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(84) o-Xylene (P)

10.596min (+0.000) 0.46 ppb m

response 5099

Ion	Exp%	Act%
106.10	100	100
91.00	208.20	220.80
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

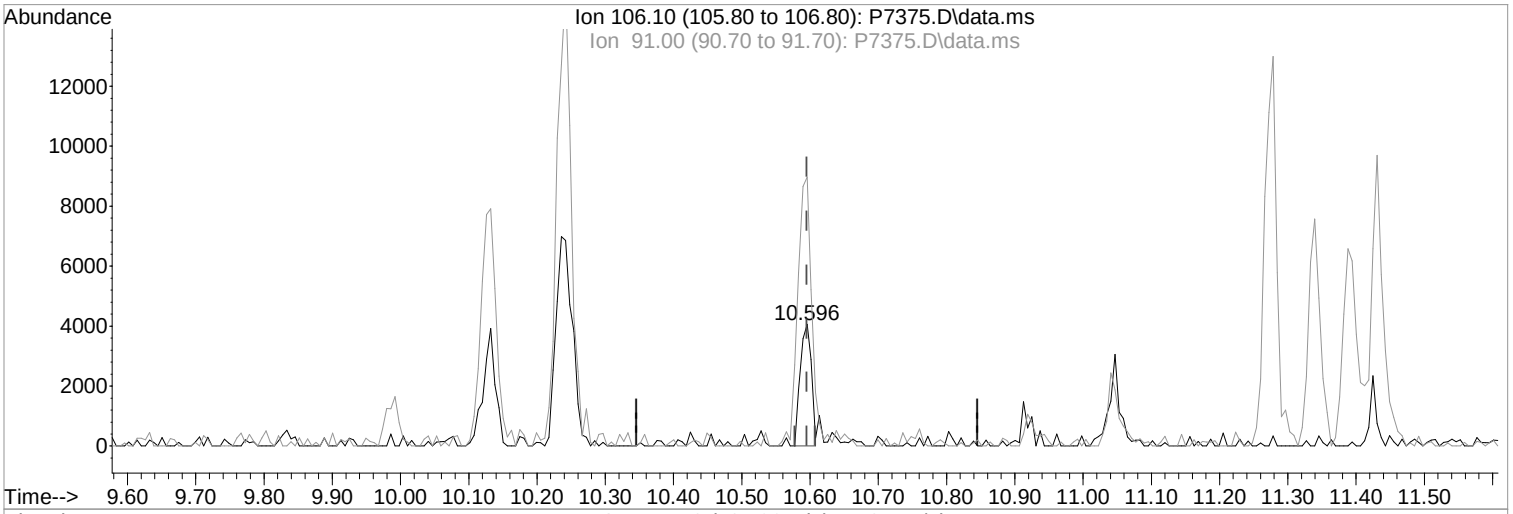
Split Peak

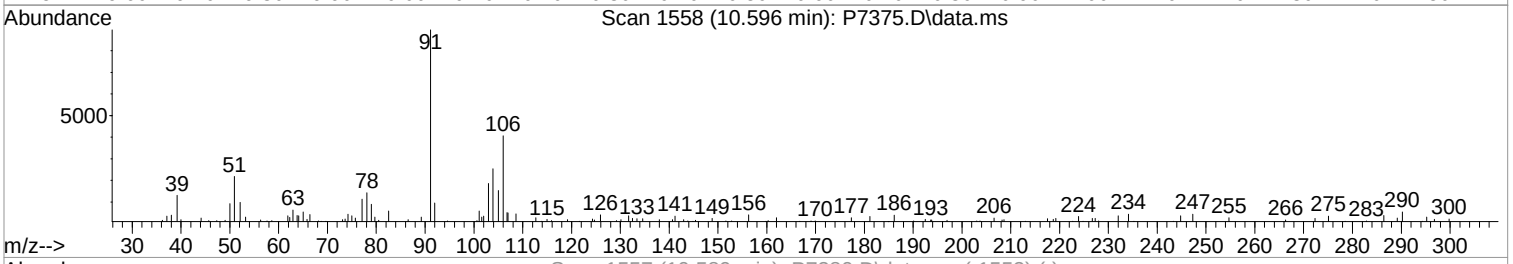
01/05/17

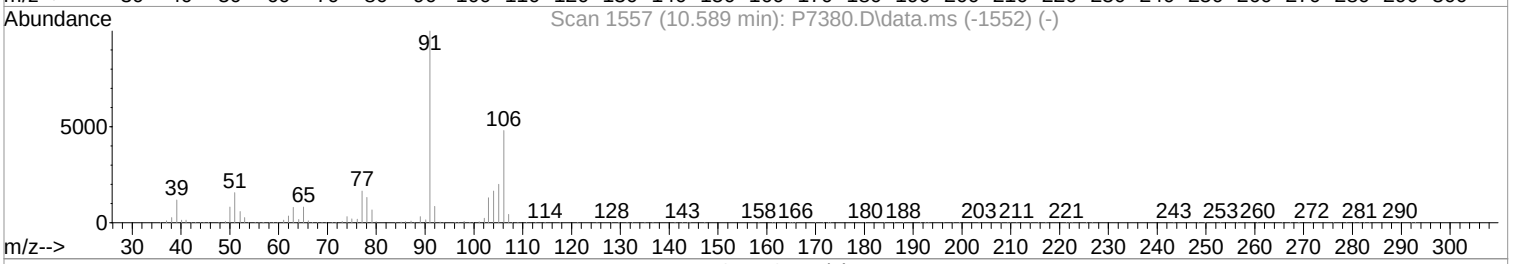
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(84) o-Xylene (P)

10.596min (+0.000) 0.42 ppb

response 4631

Ion	Exp%	Act%
106.10	100	100
91.00	208.20	196.39
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

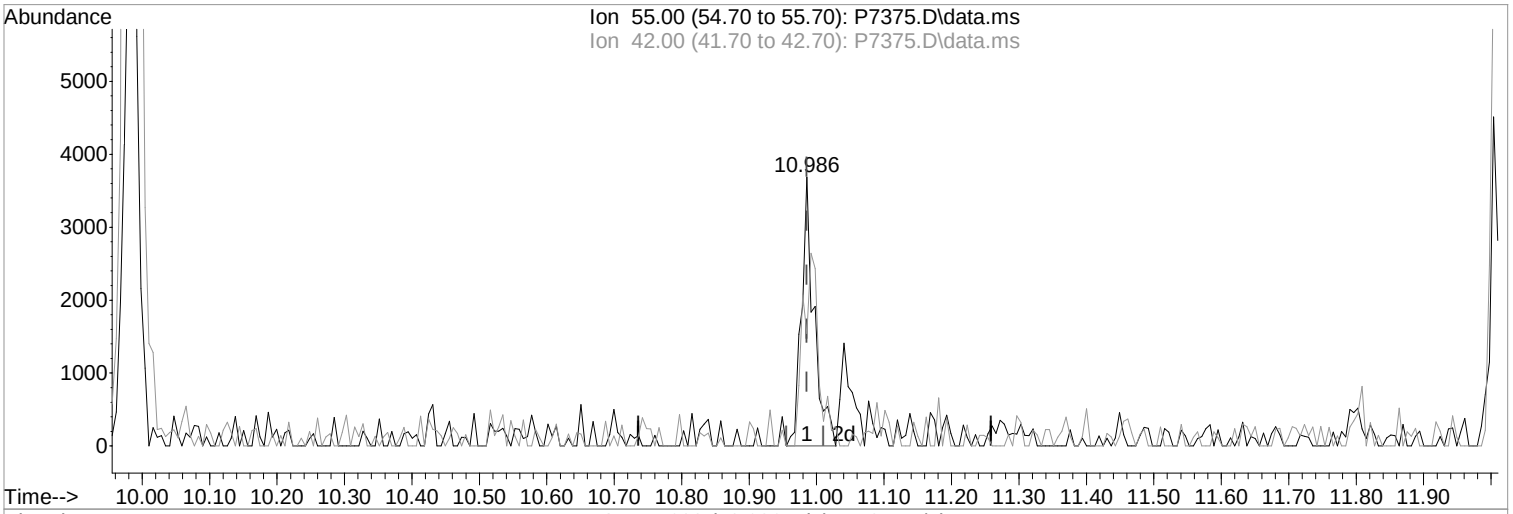
Before

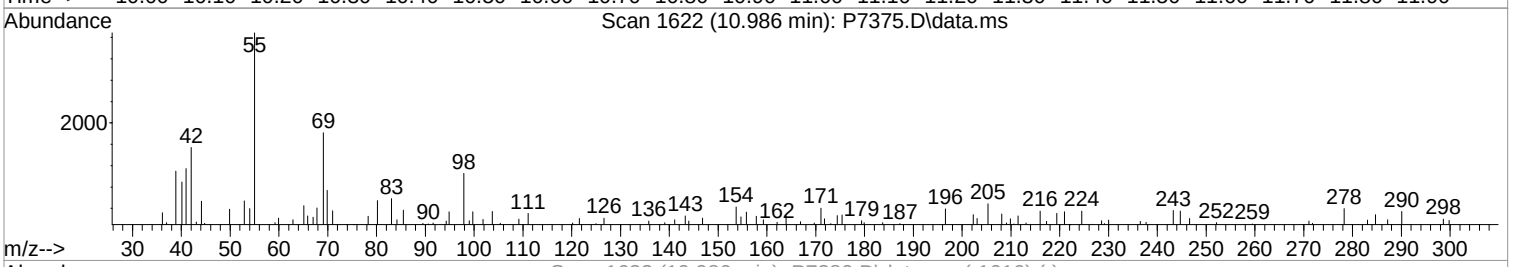
01/05/17

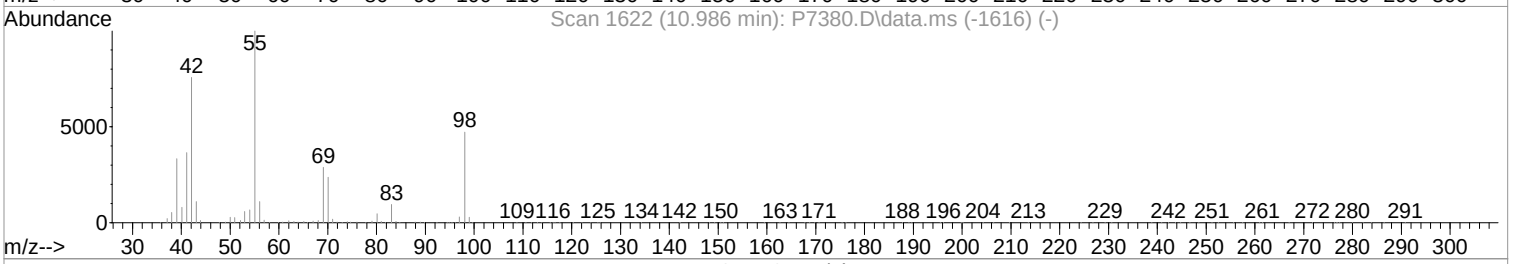
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(90) Cyclohexanone

10.986min (+0.000) 10.52 ppb m

response 4832

Ion	Exp%	Act%
55.00	100	100
42.00	75.70	41.76#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

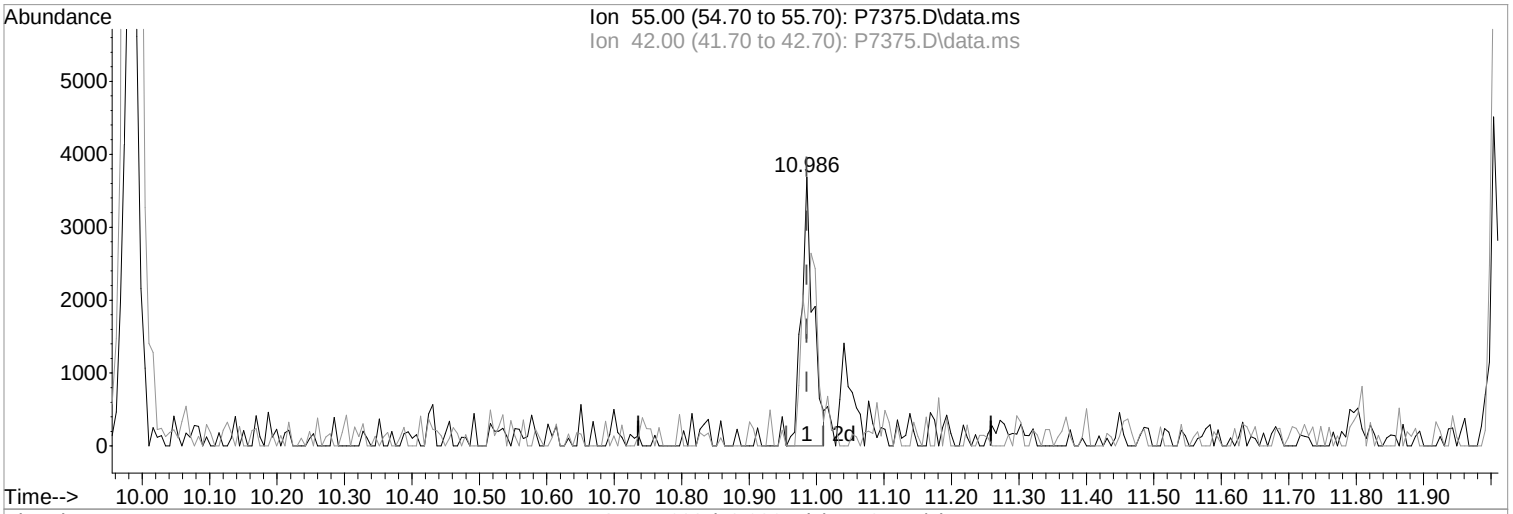
Split Peak

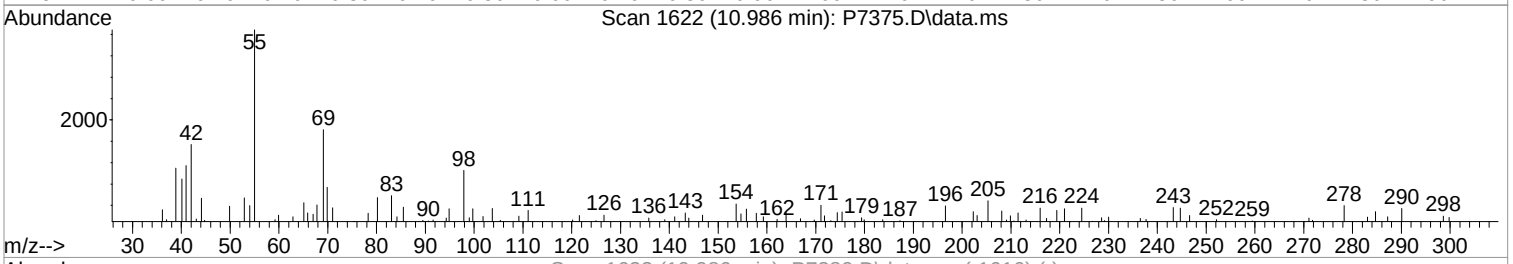
01/05/17

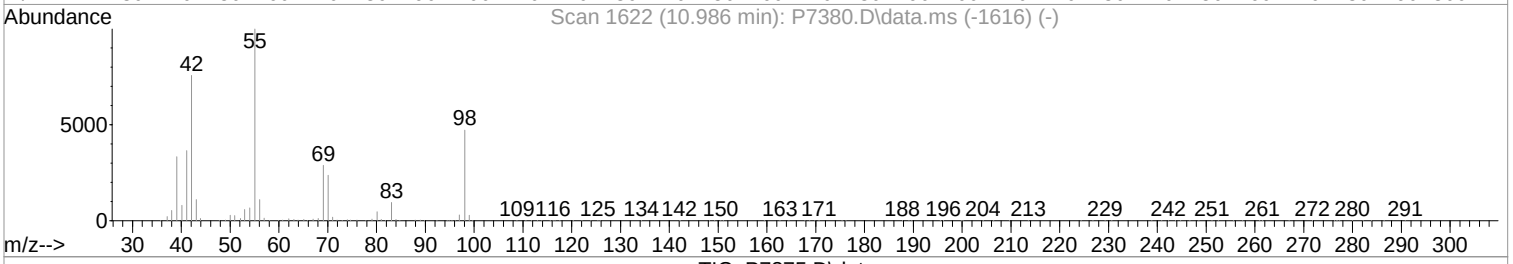
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(90) Cyclohexanone

10.986min (+0.000) 9.83 ppb

response 4517

Ion	Exp%	Act%
55.00	100	100
42.00	75.70	41.76#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

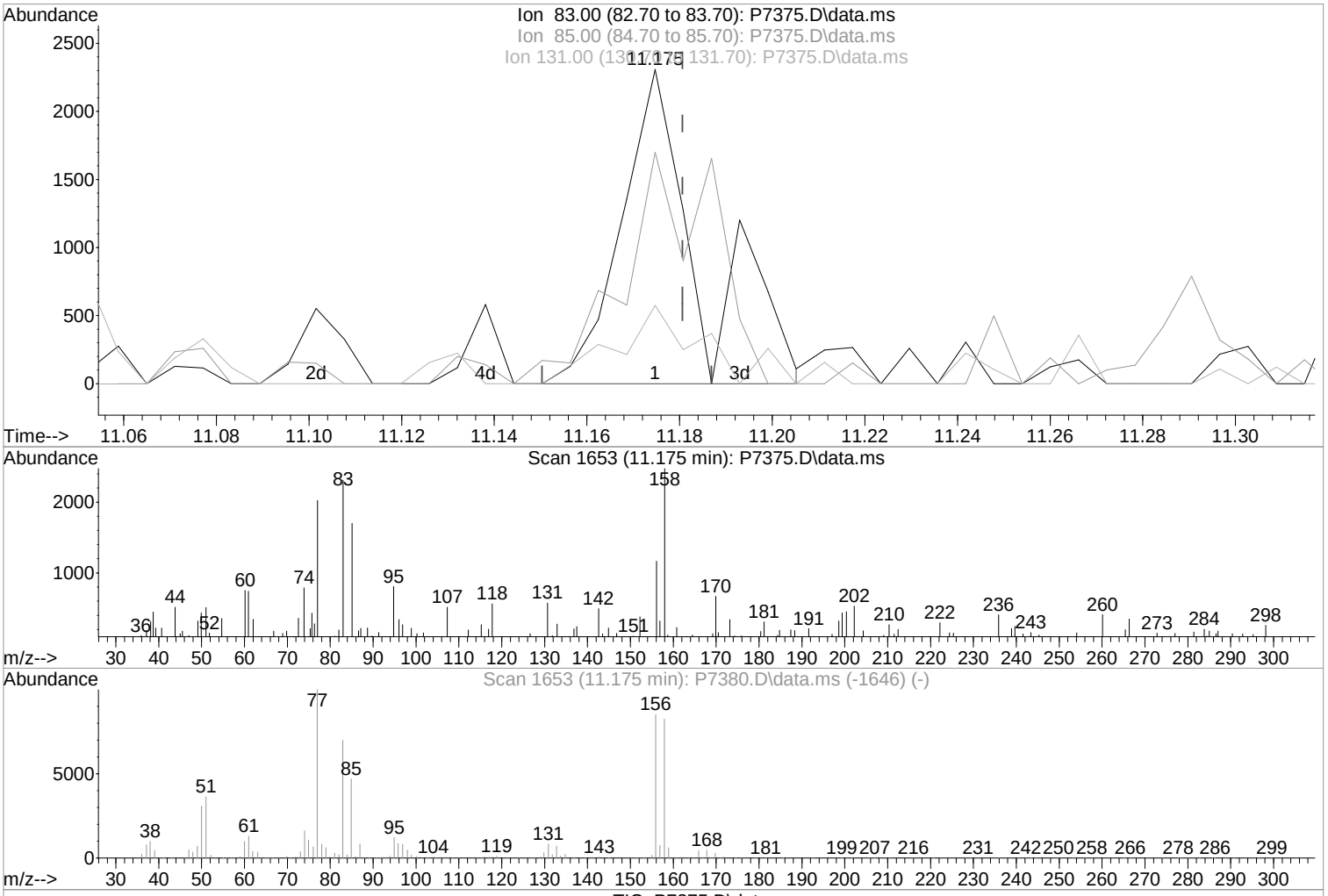
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(92) 1,1,2,2-Tetrachloroethane (P)

11.175min (-0.006) 0.55 ppb m

response 2752

Ion	Exp%	Act%
83.00	100	100
85.00	67.20	73.62
131.00	11.70	24.86
0.00	0.00	0.00

Manual Integration:

After

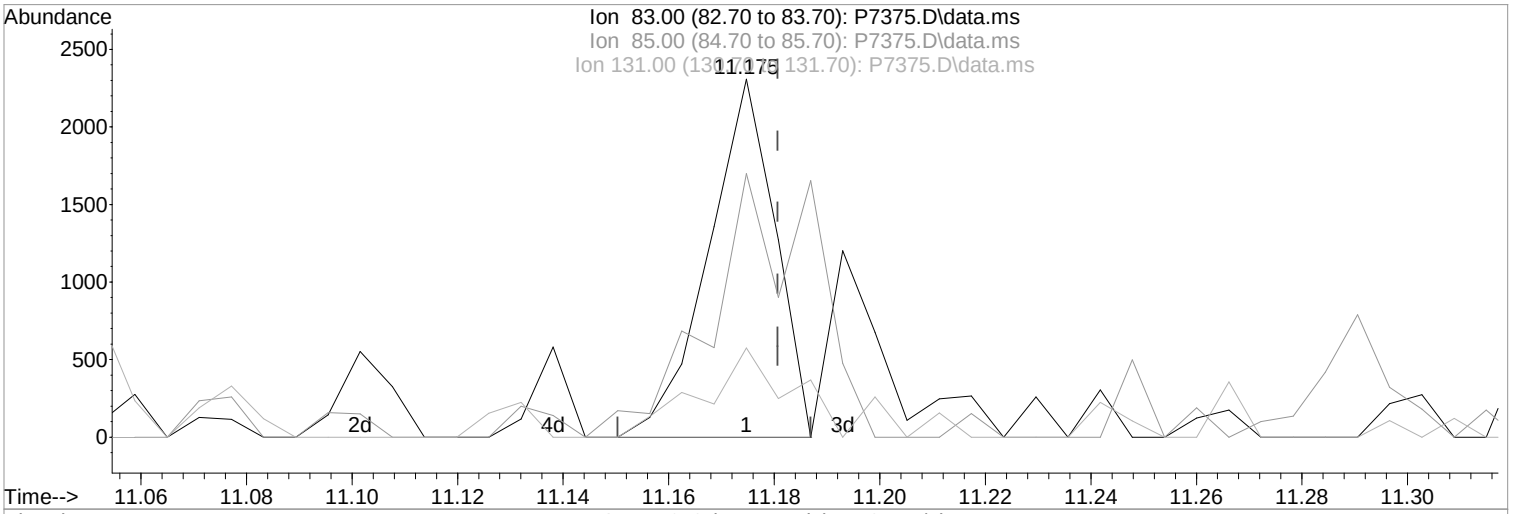
Split Peak

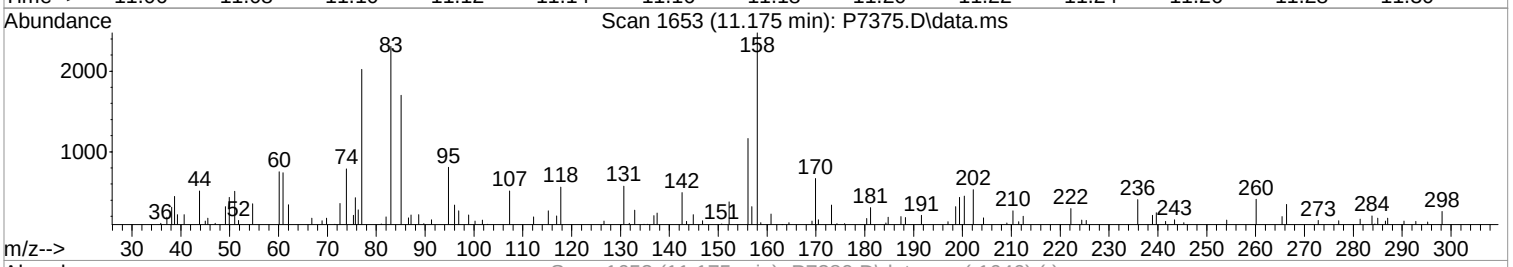
01/05/17

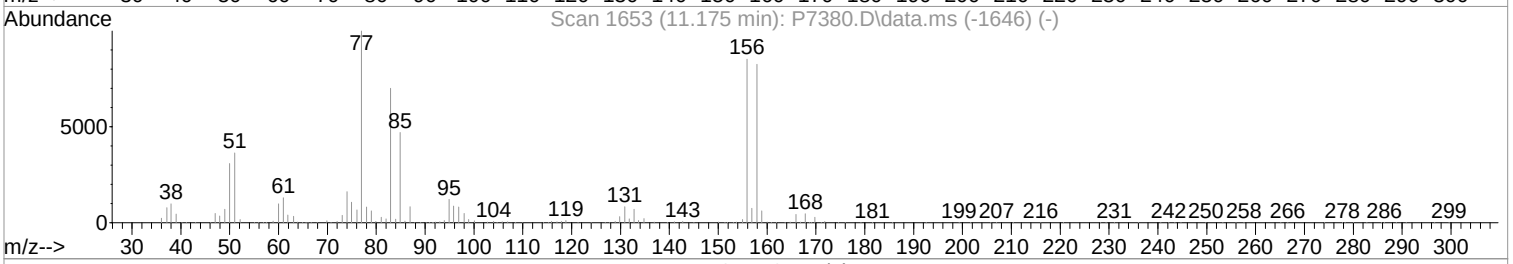
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(92) 1,1,2,2-Tetrachloroethane (P)

11.175min (-0.006) 0.41 ppb

response 2025

Ion	Exp%	Act%
83.00	100	100
85.00	67.20	73.62
131.00	11.70	24.86
0.00	0.00	0.00

Manual Integration:

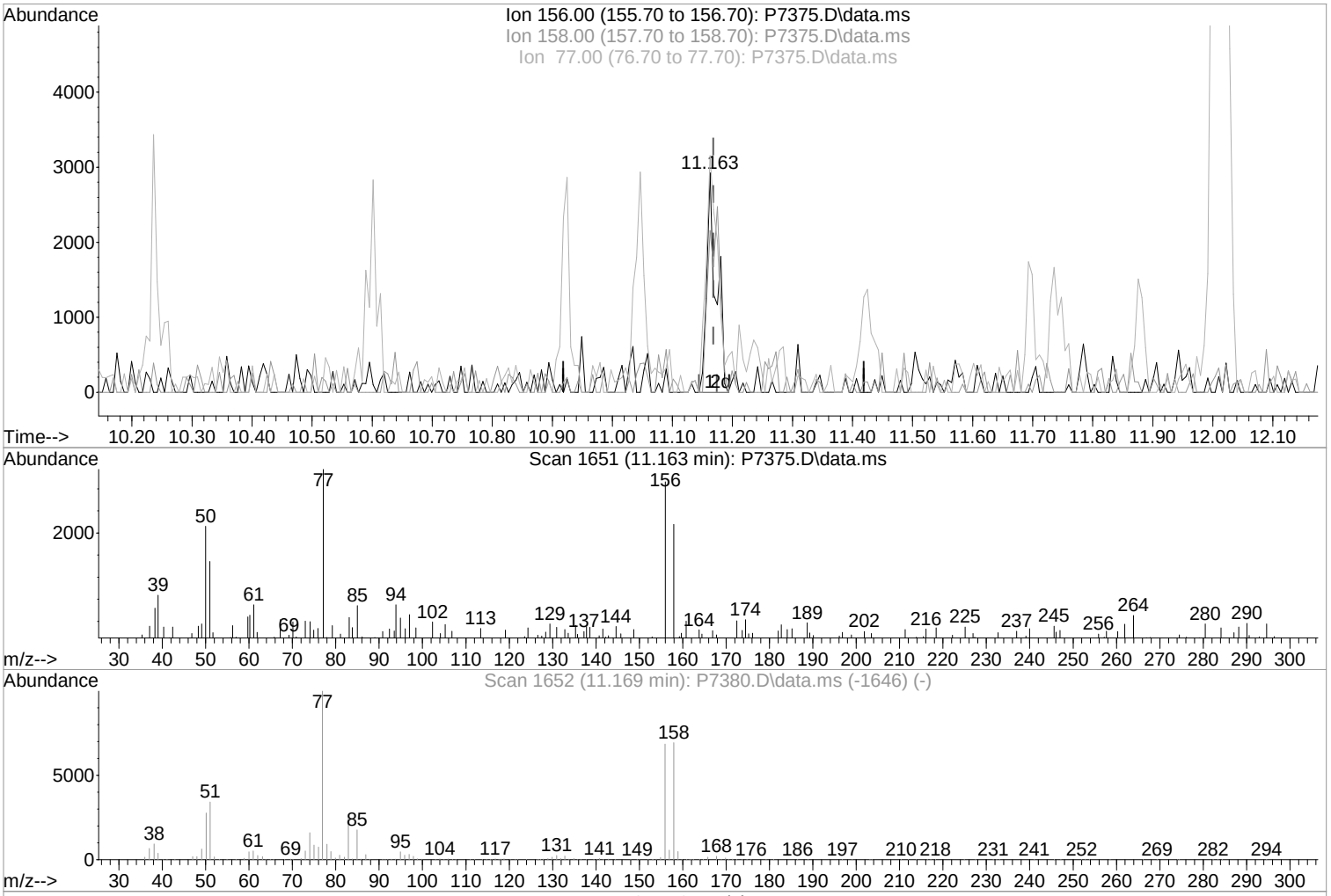
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(93) Bromobenzene

11.163min (-0.006) 0.46 ppb m

response 3228

Ion	Exp%	Act%
156.00	100	100
158.00	101.20	73.72#
77.00	146.10	107.79#
0.00	0.00	0.00

Manual Integration:

After

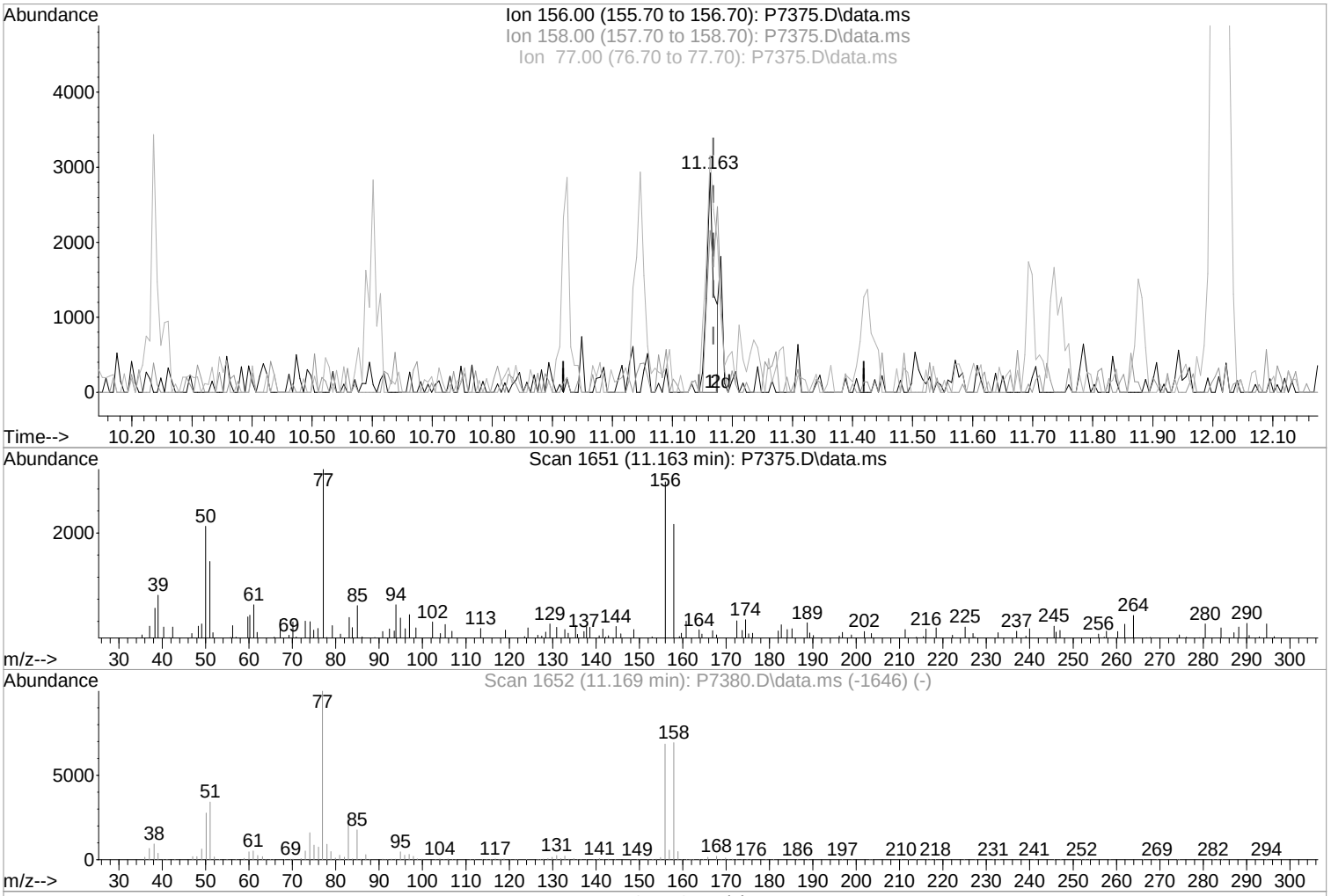
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(93) Bromobenzene

11.163min (-0.006) 0.36 ppb

response 2525

Ion	Exp%	Act%
156.00	100	100
158.00	101.20	73.72#
77.00	146.10	107.79#
0.00	0.00	0.00

Manual Integration:

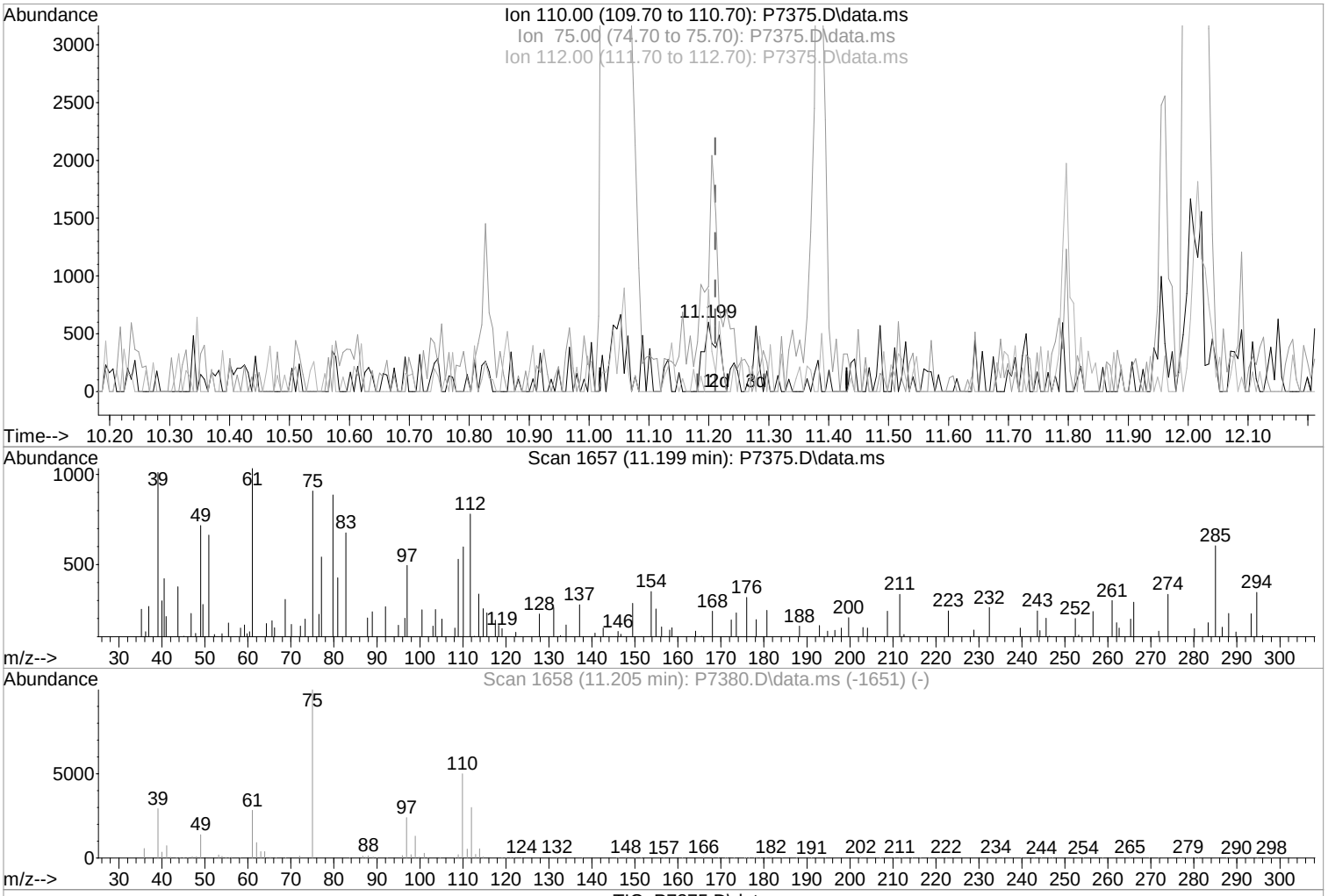
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7375.D\data.ms

(94) 1,2,3-Trichloropropane

11.199min (-0.012) 0.64 ppb m

response 1016

Ion	Exp%	Act%
110.00	100	100
75.00	257.80	151.59#
112.00	59.90	130.22#
0.00	0.00	0.00

Manual Integration:

After

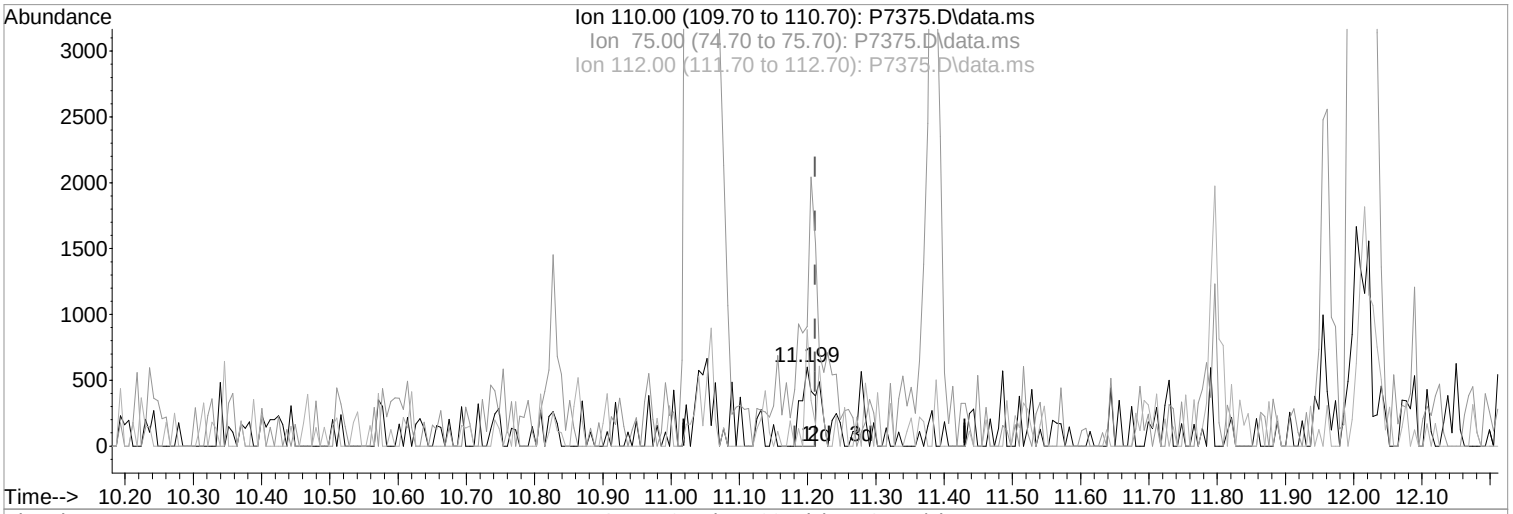
Split Peak

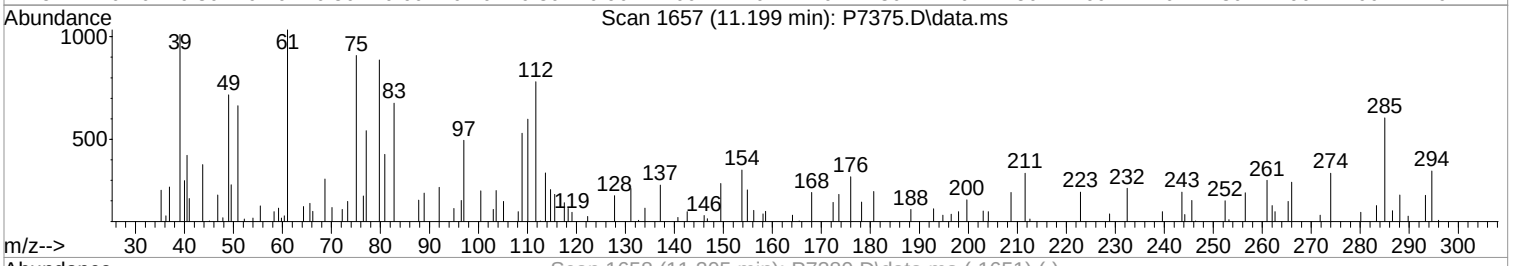
01/05/17

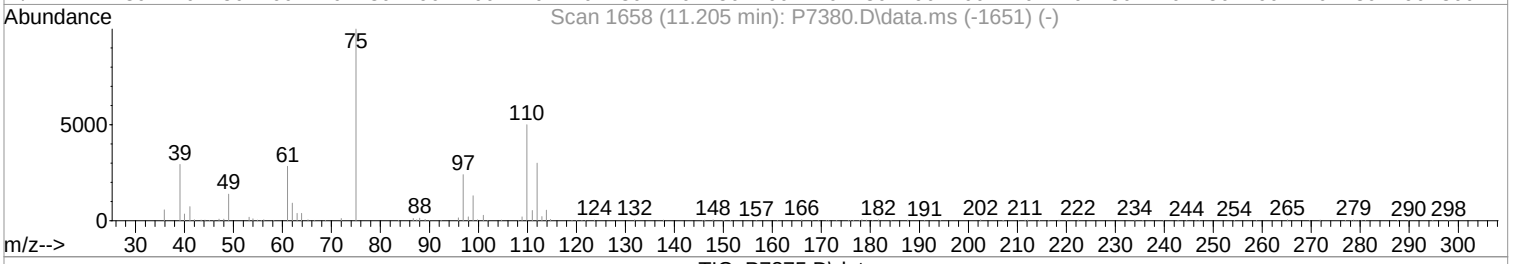
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 08:57:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7375.D\data.ms

(94) 1,2,3-Trichloropropane

11.199min (-0.012) 0.48 ppb

response 762

Ion	Exp%	Act%
110.00	100	100
75.00	257.80	151.59#
112.00	59.90	147.41#
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 09:09:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	772583	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1235919	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1197822	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	638887	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	354133	53.10	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.20%				
48) surr1,1,2-dichloroetha...	6.090	65	402191	54.32	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.64%				
65) SURR3,Toluene-d8	8.523	98	1519556	55.11	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.22%				
70) SURR2,BFB	11.047	95	567532	53.11	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.22%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	5216m	0.55	ppb		
3) Chloromethane	1.347	50	4757	0.56	ppb		89
4) Vinyl Chloride	1.427	62	2934	0.39	ppb		98
5) Bromomethane	1.683	94	1646m	0.44	ppb		
6) Chloroethane	1.762	64	1787	0.45	ppb		97
7) Freon 21	1.920	67	4937	0.53	ppb		78
8) Trichlorofluoromethane	1.969	101	4487	0.54	ppb		85
9) Diethyl Ether	2.219	59	2082	0.59	ppb	#	68
10) Freon 123a	2.231	67	3192	0.54	ppb	#	43
11) Freon 123	2.286	83	3190	0.47	ppb		94
12) Acrolein	2.335	56	1586m	2.71	ppb		
13) 1,1-Diclethene	2.433	96	3397	0.62	ppb	#	59
14) Freon 113	2.439	101	3069	0.52	ppb	#	67
16) 2-Propanol	2.640	45	2729m	15.15	ppb		
17) Iodomethane	2.561	142	4797m	0.60	ppb		
18) Carbon Disulfide	2.634	76	7779	0.47	ppb		98
20) Allyl Chloride	2.786	76	2029	0.62	ppb	#	35
22) Methylene Chloride	2.920	84	3649m	0.61	ppb		
23) TBA	3.079	59	2535	8.15	ppb		62
24) Acrylonitrile	3.213	53	3000m	2.23	ppb		
25) Methyl-t-Butyl Ether	3.256	73	7610	0.53	ppb		83
26) trans-1,2-Dichloroethene	3.237	96	3799m	0.60	ppb		
28) 1,1-Diclethane	3.792	63	5820m	0.55	ppb		
30) DIPE	3.938	45	10701	0.54	ppb		84
31) 2-Chloro-1,3-Butadiene	3.932	53	5032	0.56	ppb		91
32) ETBE	4.511	59	7719m	0.46	ppb		
33) 2,2-Dichloropropane	4.694	77	3907m	0.47	ppb		
34) cis-1,2-Dichloroethene	4.694	96	4064m	0.61	ppb		
36) Propionitrile	4.853	54	1593	3.11	ppb		100
37) Bromochloromethane	5.127	130	1828m	0.50	ppb		
40) Chloroform	5.310	83	5115m	0.50	ppb		
41) 1,1,1-Trichloroethane	5.597	97	5498m	0.61	ppb		
42) TAME	6.389	73	7344	0.50	ppb		82
44) Cyclohexane	5.657	41	4660m	0.71	ppb		
46) Carbontetrachloride	5.859	121	1233m	0.54	ppb		
47) 1,1-Dichloropropene	5.871	75	4601	0.56	ppb		80
49) Benzene	6.163	78	9921m	0.45	ppb		
50) 1,2-Dichloroethane	6.206	62	4998	0.65	ppb	#	68
52) n-Heptane	6.633	43	3627	0.49	ppb		84

1st 01/05/17
2nd 01/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 09:09:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53)	1-Butanol	7.121	56	1578	20.46	ppb		88
54)	Trichloroethene	7.078	130	2961	0.46	ppb	#	78
55)	Methylcyclohexane	7.310	55	4526m	0.60	ppb		
56)	1,2-Diclpropane	7.346	63	3382	0.55	ppb	#	32
57)	Dibromomethane	7.474	93	1480m	0.47	ppb		
59)	Methyl Methacrylate	7.578	69	2032m	0.68	ppb		
60)	Bromodichloromethane	7.706	83	4809	0.63	ppb		91
62)	2-Chloroethylvinyl Ether	8.114	63	1609m	0.54	ppb		
63)	cis-1,3-Dichloropropene	8.236	75	3815m	0.43	ppb		
66)	Toluene	8.596	91	11813	0.46	ppb		94
67)	trans-1,3-Dichloropropene	8.864	75	2828m	0.39	ppb		
68)	Ethyl Methacrylate	9.004	69	2791m	0.49	ppb		
69)	1,1,2-Trichloroethane	9.047	97	1929	0.44	ppb		89
72)	Tetrachloroethene	9.181	164	3049	0.59	ppb	#	66
74)	1,3-Dichloropropane	9.206	76	4307	0.53	ppb		96
75)	Dibromochloromethane	9.437	129	2370m	0.51	ppb		
76)	N-Butyl Acetate	9.480	43	3193	0.49	ppb		93
77)	1,2-Dibromoethane	9.535	107	1941m	0.46	ppb		
78)	Chlorobenzene	10.010	112	9565	0.57	ppb		80
79)	3-CBTF	10.029	180	4525	0.48	ppb		87
80)	4-CBTF	10.083	180	4477m	0.51	ppb		
81)	1,1,1,2-Tetrachloroethane	10.096	131	2523	0.45	ppb		91
82)	Ethylbenzene	10.132	106	4864	0.52	ppb	#	50
83)	(m+p)Xylene	10.236	106	11807	1.07	ppb	#	90
84)	o-Xylene	10.596	106	5099m	0.46	ppb		
85)	Styrene	10.608	104	9144	0.50	ppb		86
87)	Bromoform	10.754	173	984	0.43	ppb	#	28
88)	2-CBTF	10.827	180	4174	0.48	ppb	#	75
89)	Isopropylbenzene	10.925	105	12972	0.50	ppb		78
90)	Cyclohexanone	10.986	55	4832m	10.52	ppb		
91)	trans-1,4-Dichloro-2-B...	11.223	53	1082	0.78	ppb		80
92)	1,1,2,2-Tetrachloroethane	11.175	83	2752m	0.55	ppb		
93)	Bromobenzene	11.163	156	3228m	0.46	ppb		
94)	1,2,3-Trichloropropane	11.199	110	1016m	0.64	ppb		
95)	n-Propylbenzene	11.278	91	15414	0.51	ppb		96
96)	2-Chlorotoluene	11.339	91	9119	0.50	ppb		84
97)	3-Chlorotoluene	11.388	91	9852	0.49	ppb	#	91
98)	4-Chlorotoluene	11.431	91	11210	0.53	ppb		94
99)	1,3,5-Trimethylbenzene	11.425	105	10493	0.46	ppb		88
100)	tert-Butylbenzene	11.699	119	7467	0.40	ppb		97
101)	1,2,4-Trimethylbenzene	11.736	105	10501	0.45	ppb		76
102)	3,4-DCBTF	11.797	214	3697	0.54	ppb	#	80
103)	sec-Butylbenzene	11.876	105	13537	0.50	ppb		93
104)	p-Isopropyltoluene	11.998	119	10963	0.48	ppb		92
105)	1,3-Dclbenz	11.961	146	7397	0.55	ppb		97
106)	1,4-Dclbenz	12.034	146	7387	0.52	ppb	#	75
107)	2,4-DCBTF	12.083	214	2864	0.46	ppb		89
108)	2,5-DCBTF	12.126	214	2707	0.41	ppb	#	66
109)	n-Butylbenzene	12.327	91	9821	0.47	ppb		90
110)	1,2-Dclbenz	12.339	146	6591	0.52	ppb	#	68
112)	Trielution Dichlorotol...	13.065	125	14621	1.34	ppb	#	73
113)	1,3,5 Trichlorobenzene	13.126	180	4918	0.51	ppb	#	89
114)	Coelution Dichlorotoluene	13.400	125	12503	1.06	ppb		98
115)	1,2,4-Tcbenzene	13.607	180	4826	0.57	ppb	#	81
116)	Hexachlorobt	13.753	225	2623	0.68	ppb	#	42
117)	Naphthalen	13.796	128	7512	0.48	ppb		87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 09:09:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
118) 1,2,3-Tclbenzene	13.991	180	3475	0.50	ppb	#	65
119) 2,4,5-Trichlorotolene	14.576	159	3202	0.60	ppb	#	49
120) 2,3,6-Trichlorotoluene	14.650	159	2012	0.45	ppb	#	67

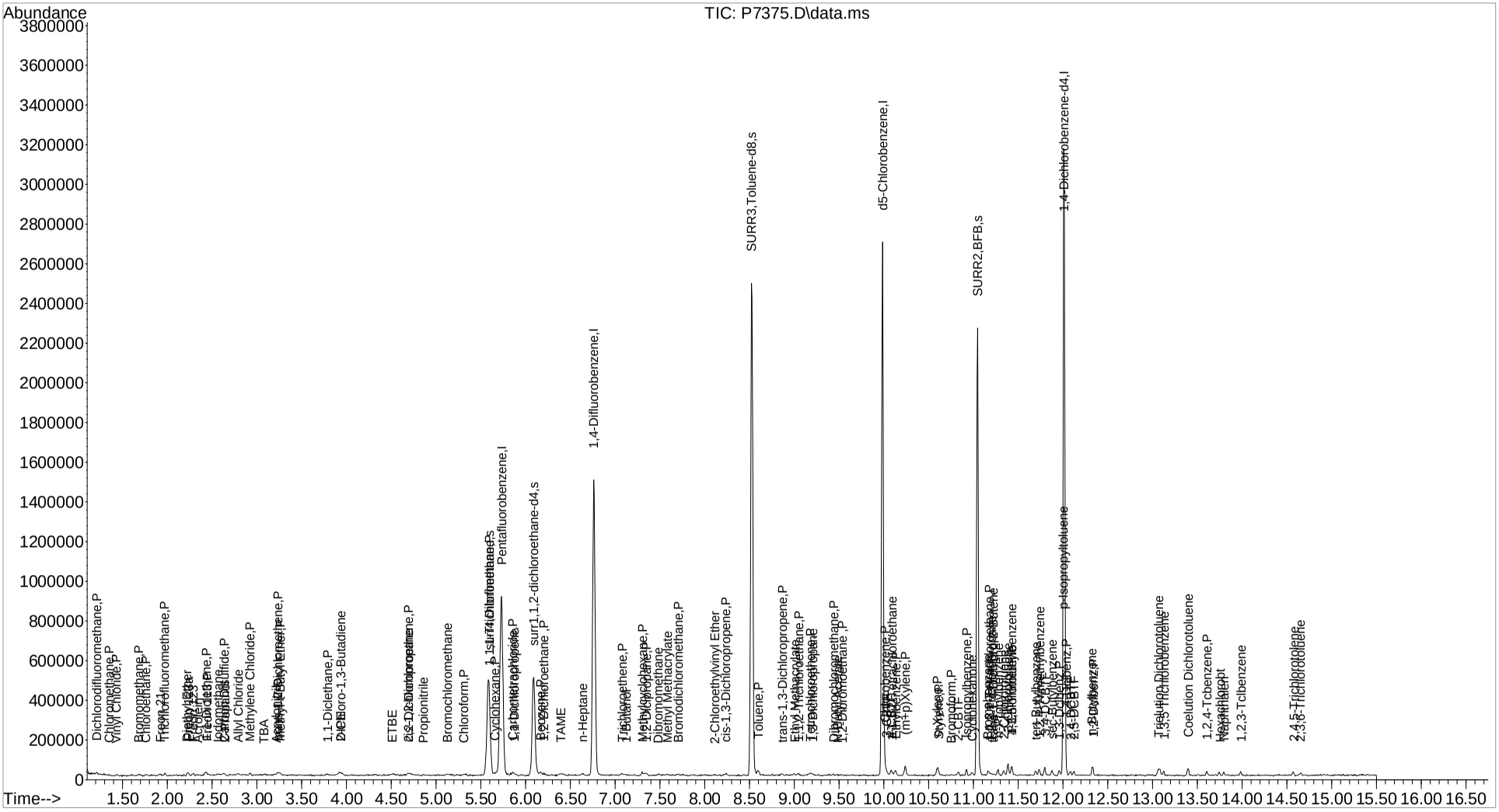
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7375.D
Acq On : 4 Jan 2017 1:23 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

1st 01/05/17
2nd 01/05/17

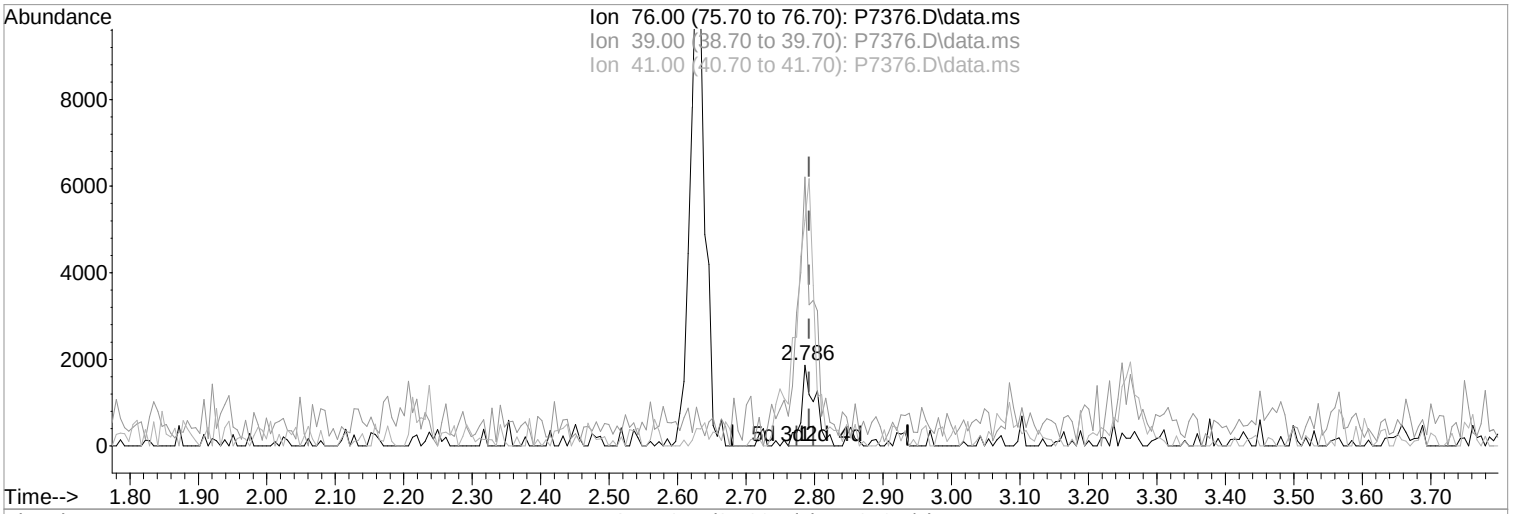
Quant Time: Jan 05 09:09:49 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
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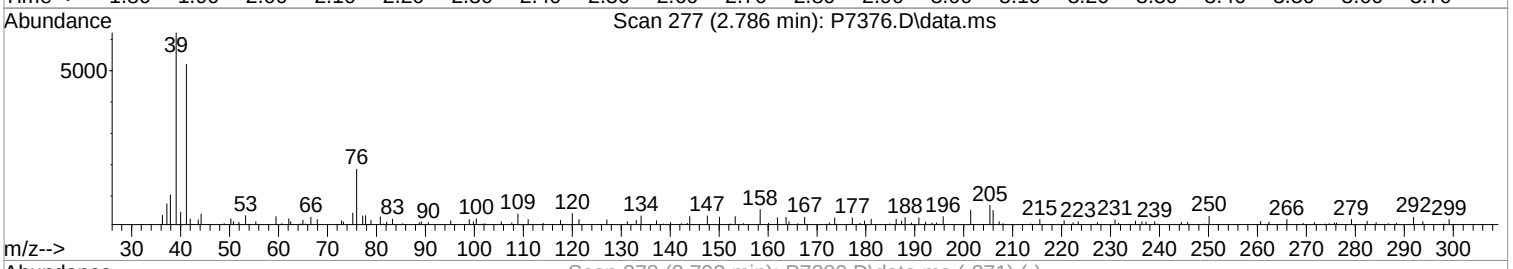


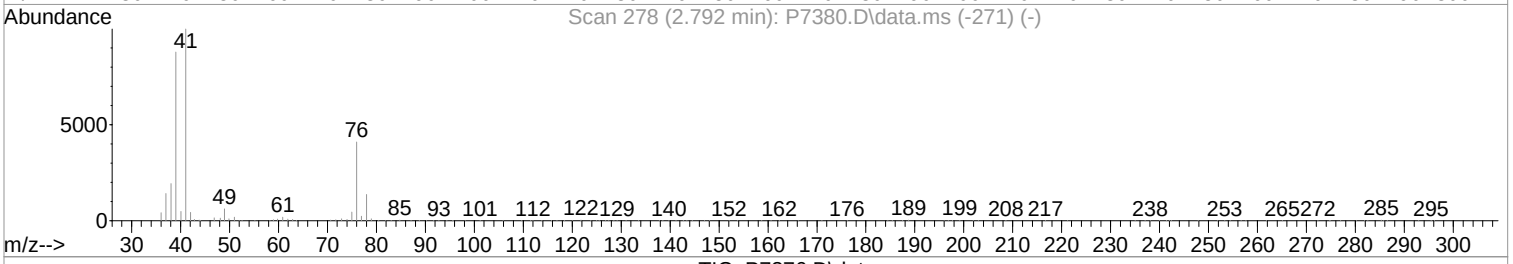
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(20) Allyl Chloride

2.786min (-0.006) 0.83 ppb m

response 2664

Ion	Exp%	Act%
76.00	100	100
39.00	220.70	333.33#
41.00	283.10	279.60
0.00	0.00	0.00

Manual Integration:

After

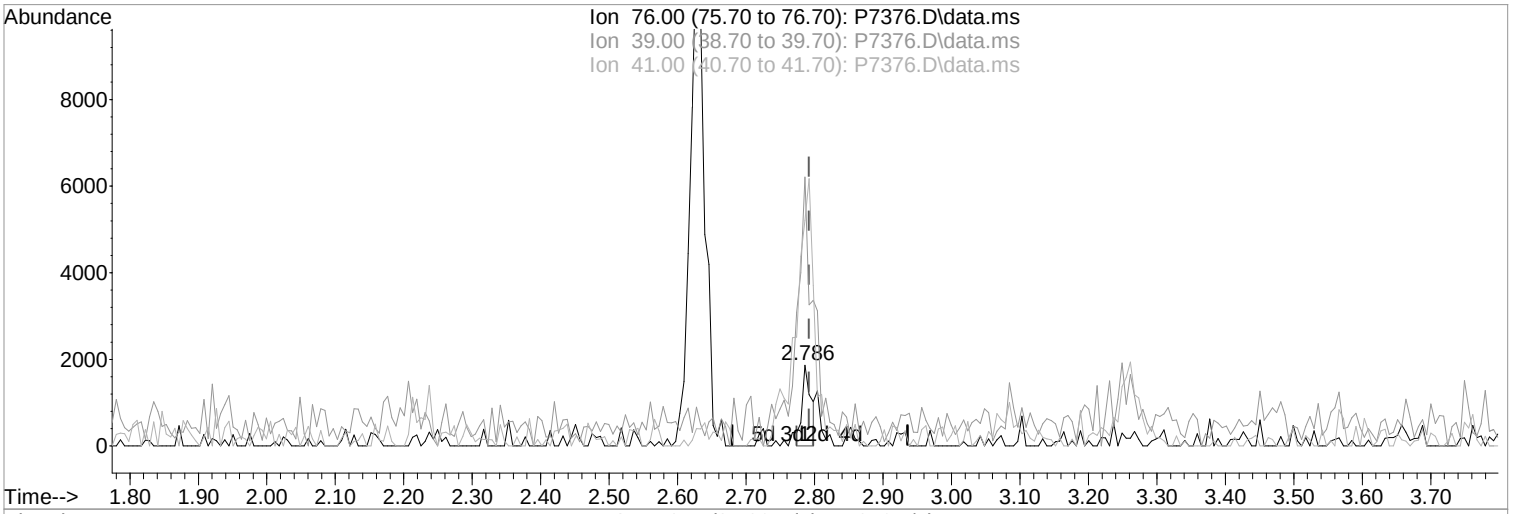
Split Peak

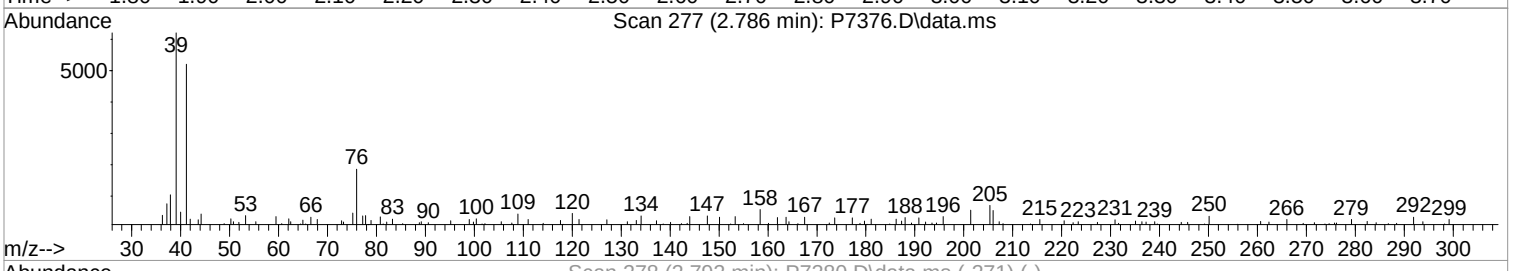
01/05/17

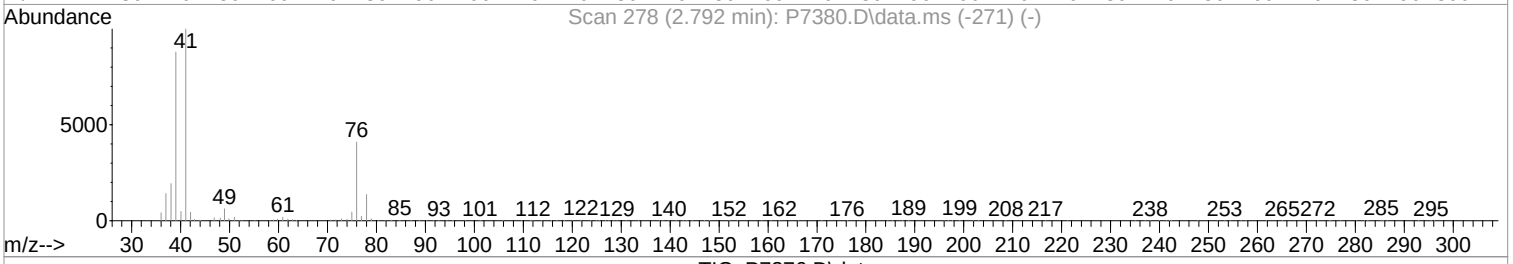
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(20) Allyl Chloride

2.786min (-0.006) 0.52 ppb

response 1685

Ion	Exp%	Act%
76.00	100	100
39.00	220.70	333.33#
41.00	283.10	279.60
0.00	0.00	0.00

Manual Integration:

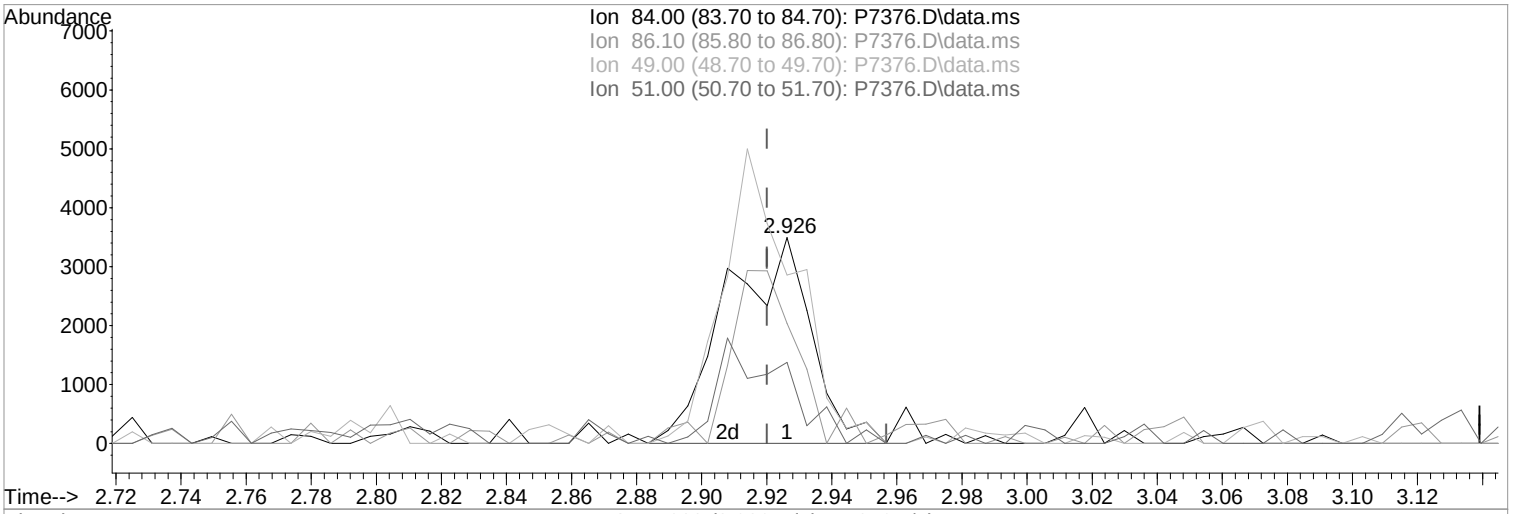
Before

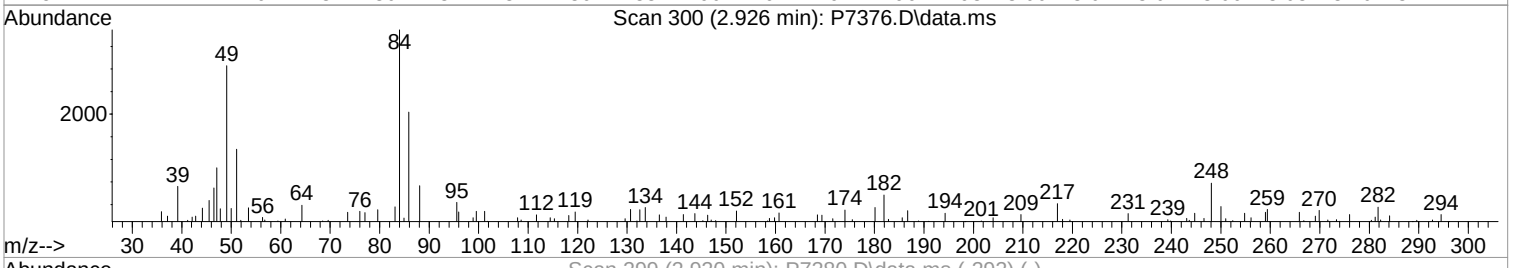
01/05/17

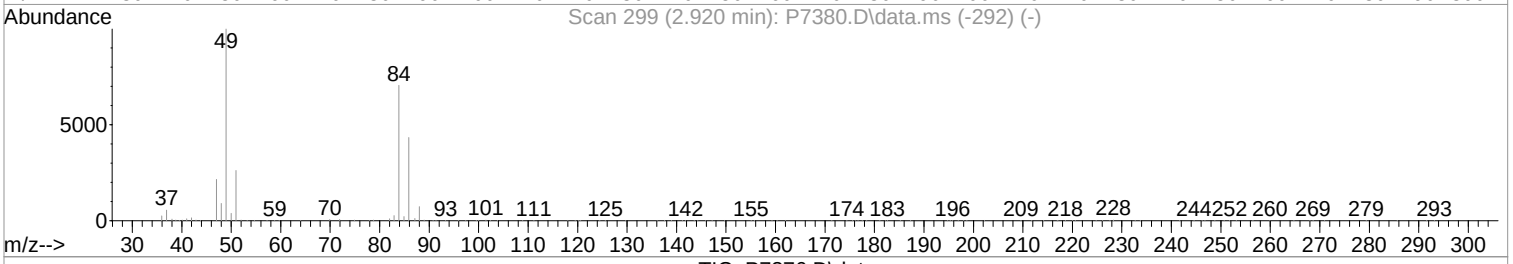
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(22) Methylene Chloride (P)

2.926min (+0.006) 1.08 ppb m

response 6424

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	58.28
49.00	142.00	81.83#
51.00	37.20	39.46

Manual Integration:

After

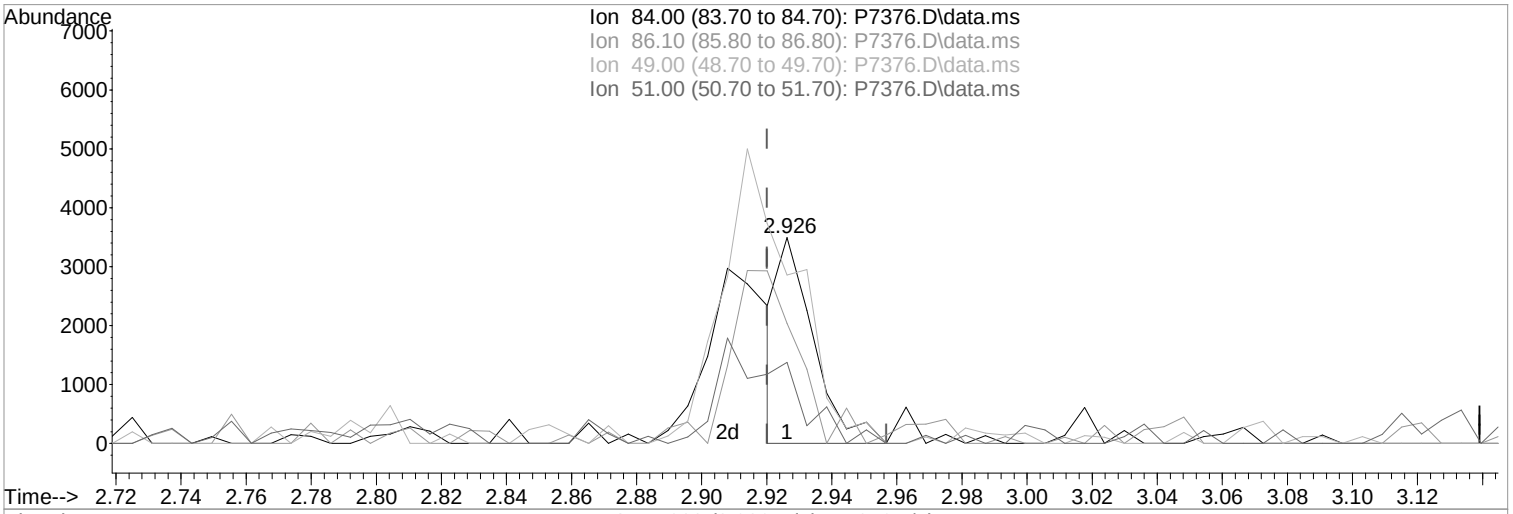
Split Peak

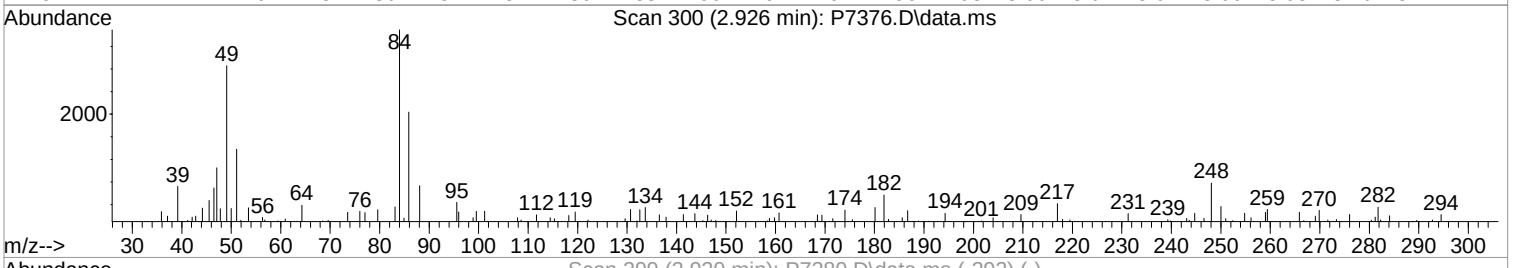
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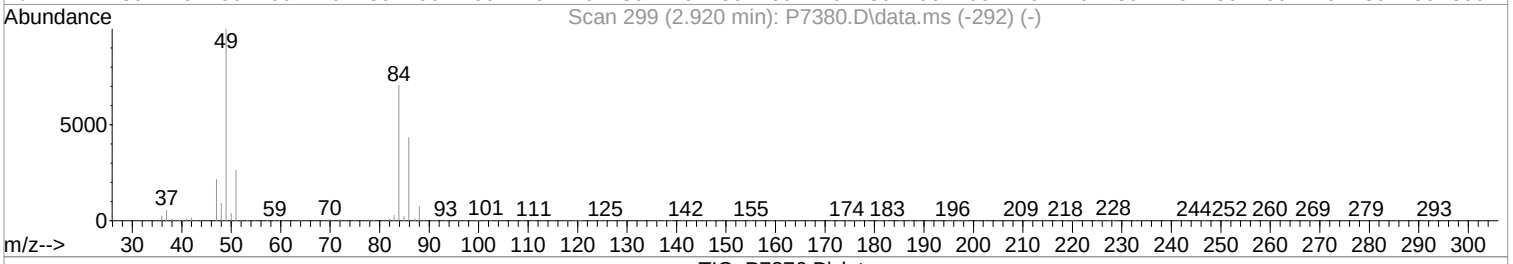
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(22) Methylene Chloride (P)

2.926min (+0.006) 0.44 ppb

response 2640

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	58.28
49.00	142.00	81.83#
51.00	37.20	39.46

Manual Integration:

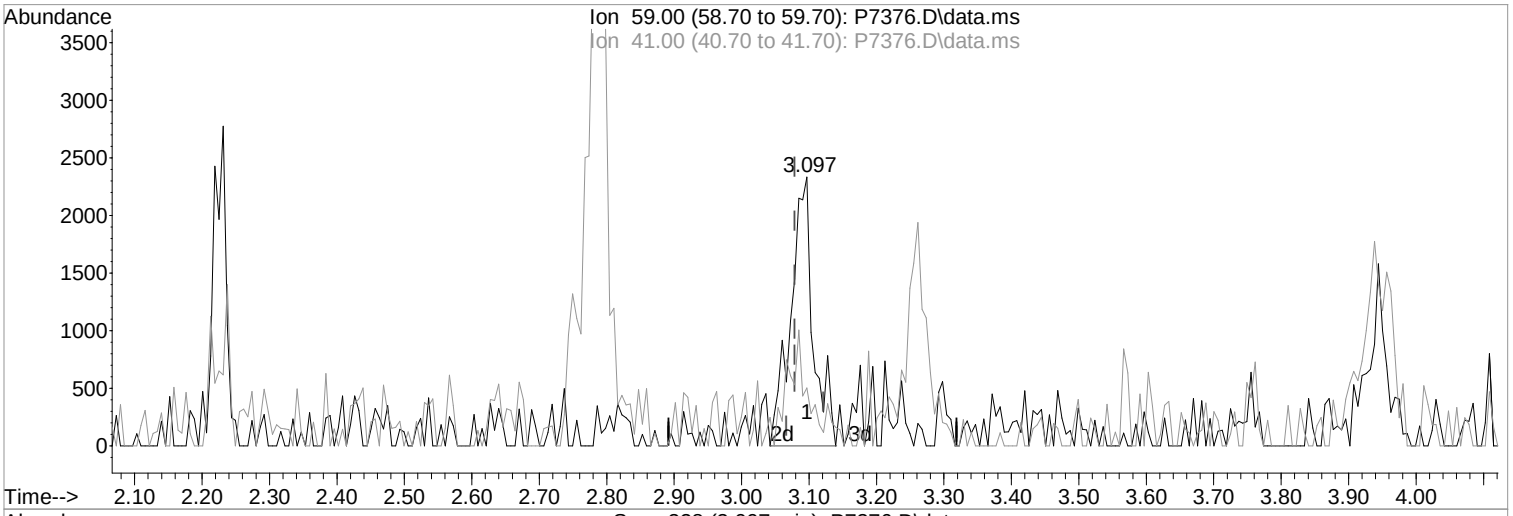
Before

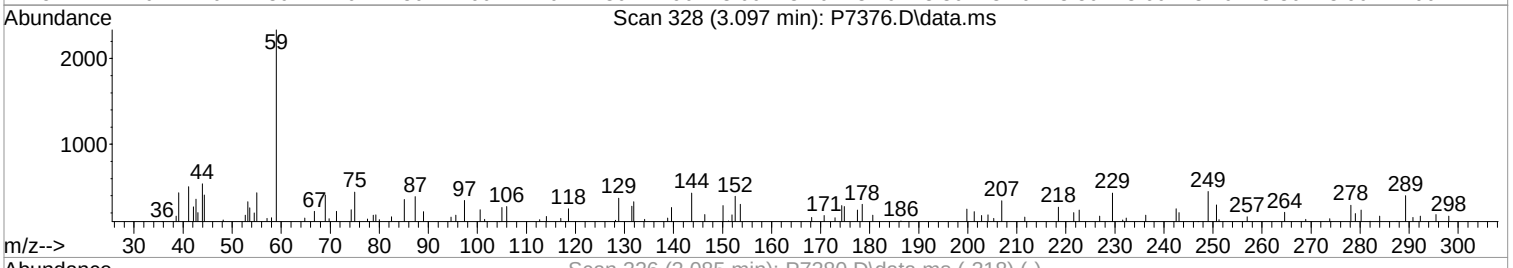
01/05/17

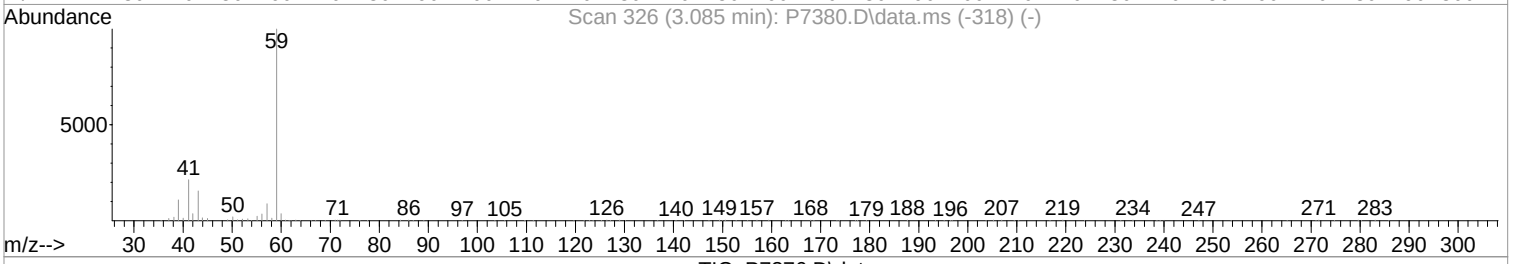
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(23) TBA

3.097min (+0.018) 17.79 ppb m

response 5474

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	21.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

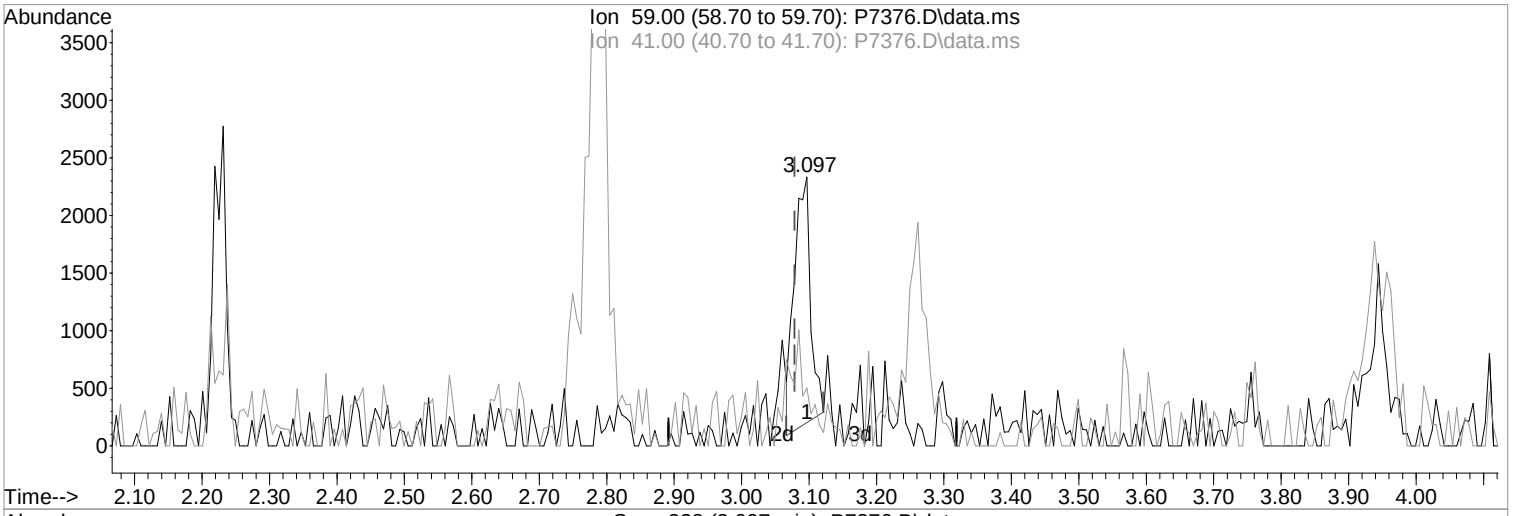
01/05/17

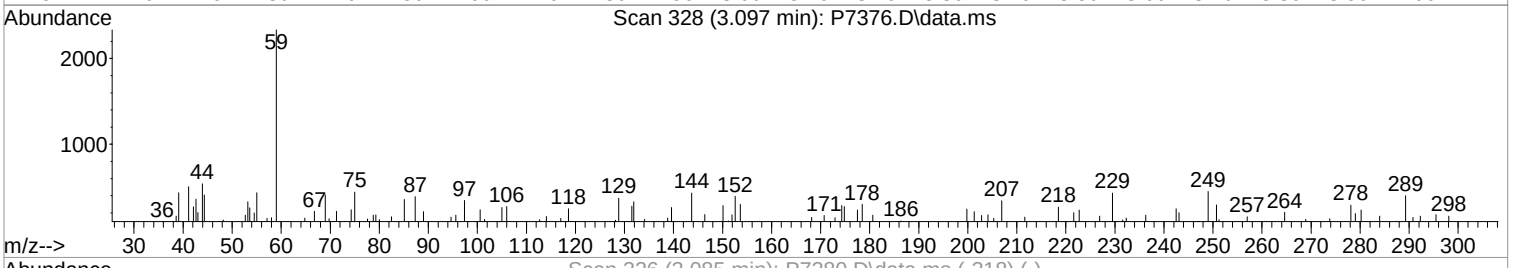
1st 01/05/17
2nd 01/05/17

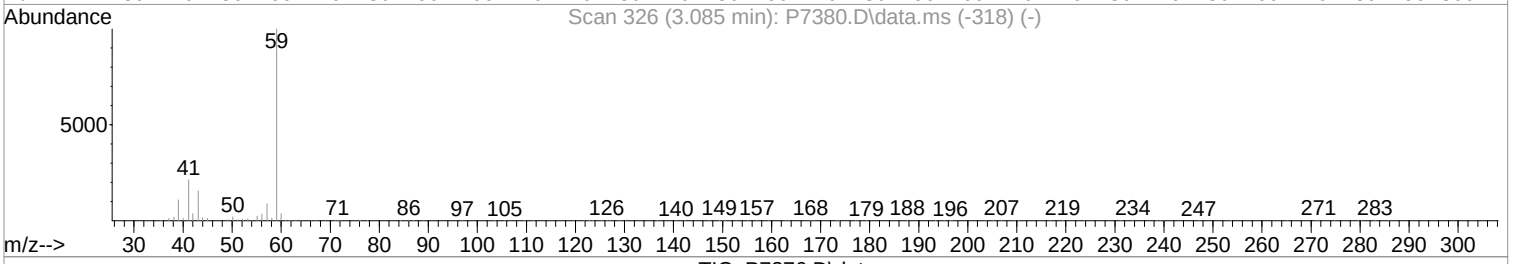
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(23) TBA

3.097min (+0.018) 11.82 ppb

response 3638

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	21.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

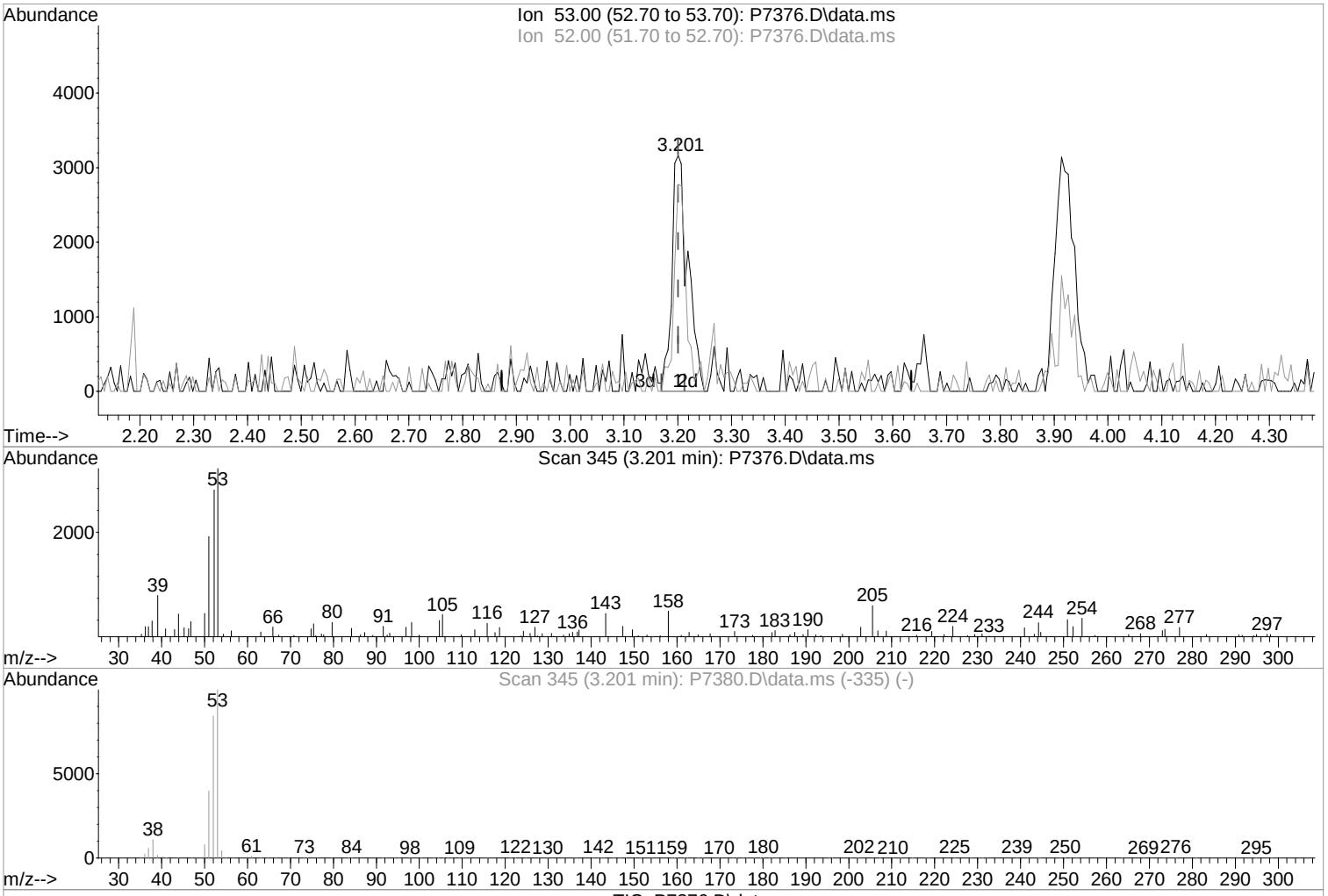
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(24) Acrylonitrile

3.201min (0.000) 4.89 ppb m

response 6517

Ion	Exp%	Act%
53.00	100	100
52.00	84.30	87.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

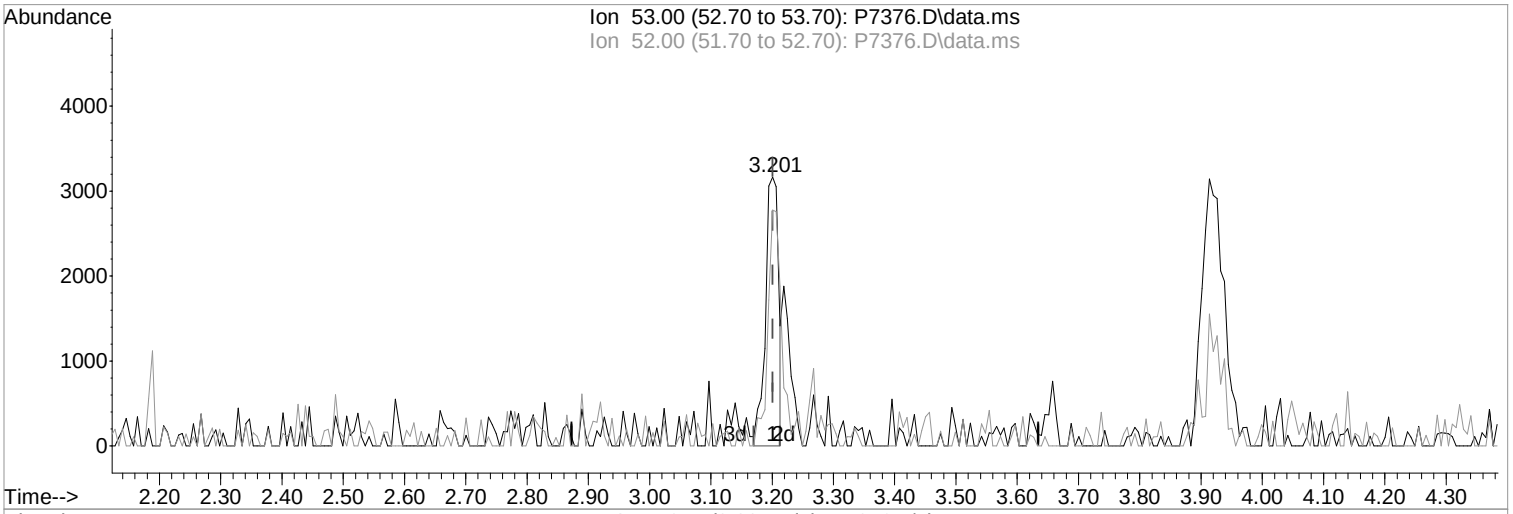
Split Peak

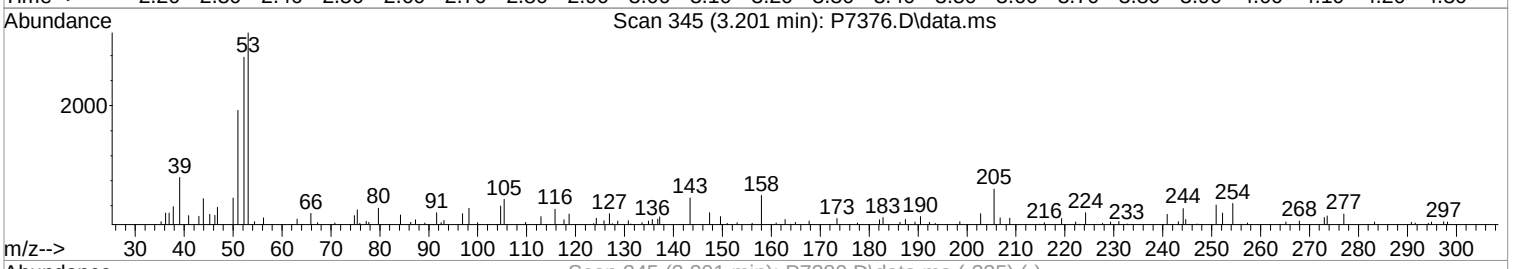
01/05/17

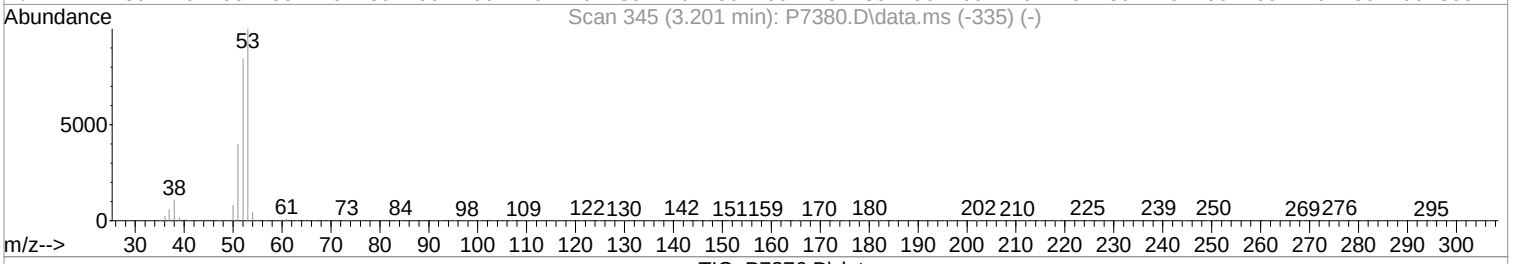
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(24) Acrylonitrile

3.201min (0.000) 3.52 ppb

response 4694

Ion	Exp%	Act%
53.00	100	100
52.00	84.30	87.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

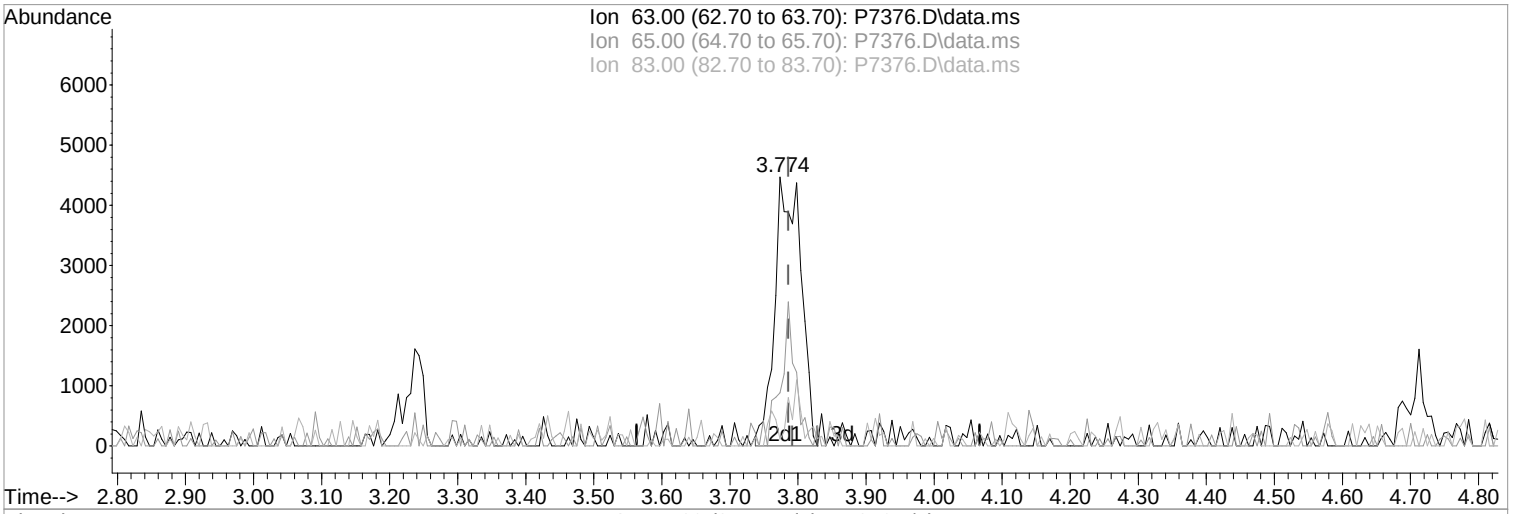
01/05/17

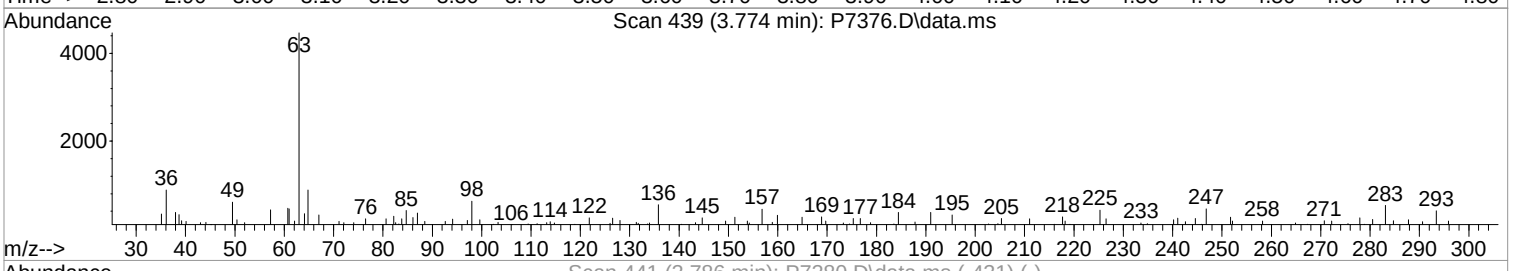
1st 01/05/17
2nd 01/05/17

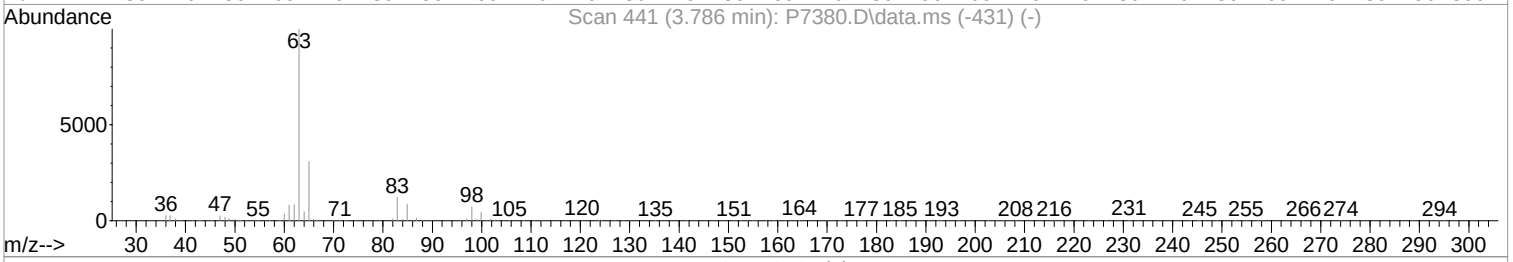
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(28) 1,1-Diclethane (P)

3.774min (-0.012) 1.12 ppb m

response 11785

Ion	Exp%	Act%
63.00	100	100
65.00	30.80	19.80
83.00	12.10	2.53
0.00	0.00	0.00

Manual Integration:

After

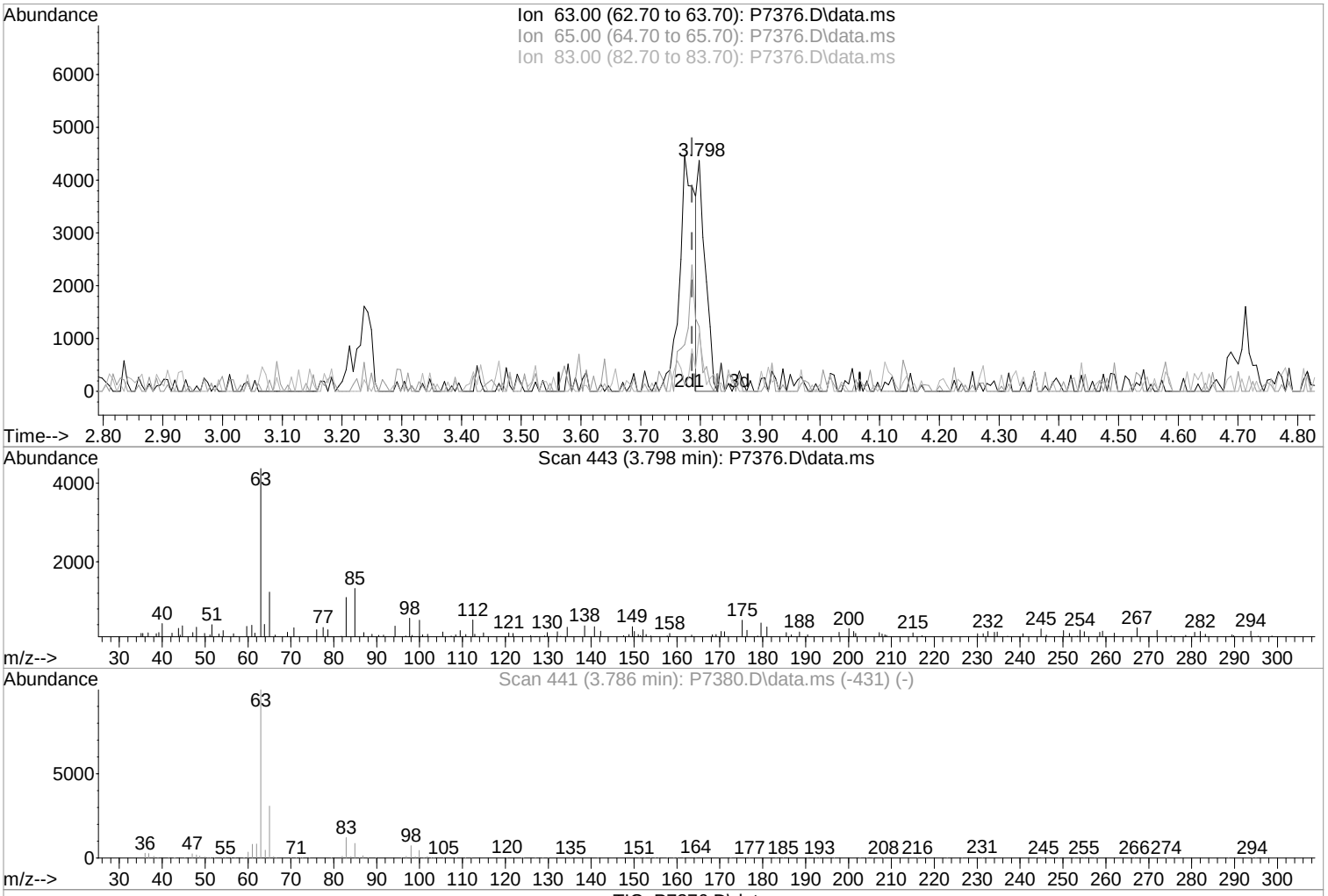
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(28) 1,1-Diclethane (P)

3.798min (+0.012) 0.37 ppb

response 3935

Ion	Exp%	Act%
63.00	100	100
65.00	30.80	28.07
83.00	12.10	25.13
0.00	0.00	0.00

Manual Integration:

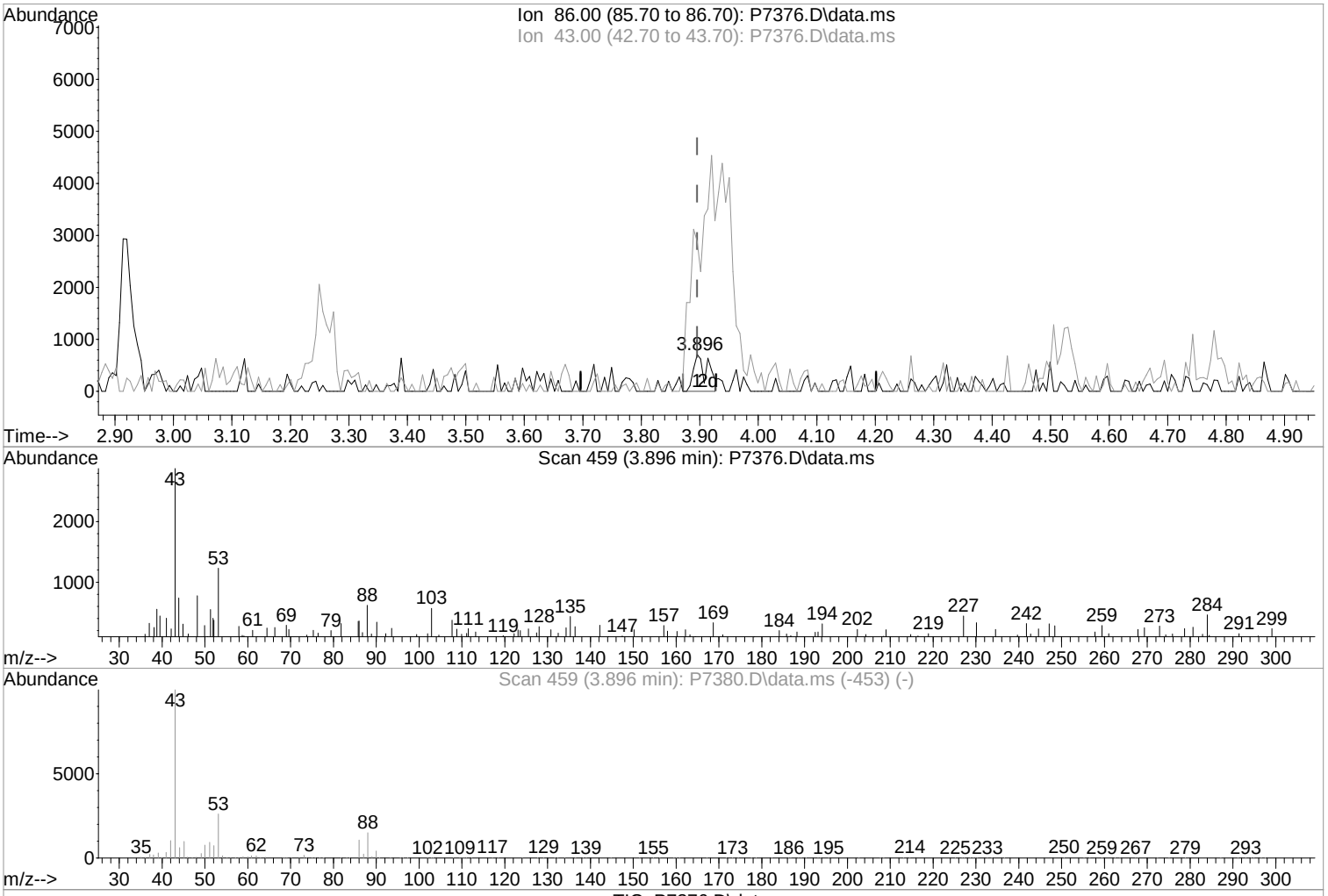
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(29) Vinyl Acetate

3.896min (+0.000) 1.19 ppb m

response 1218

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	806.44#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

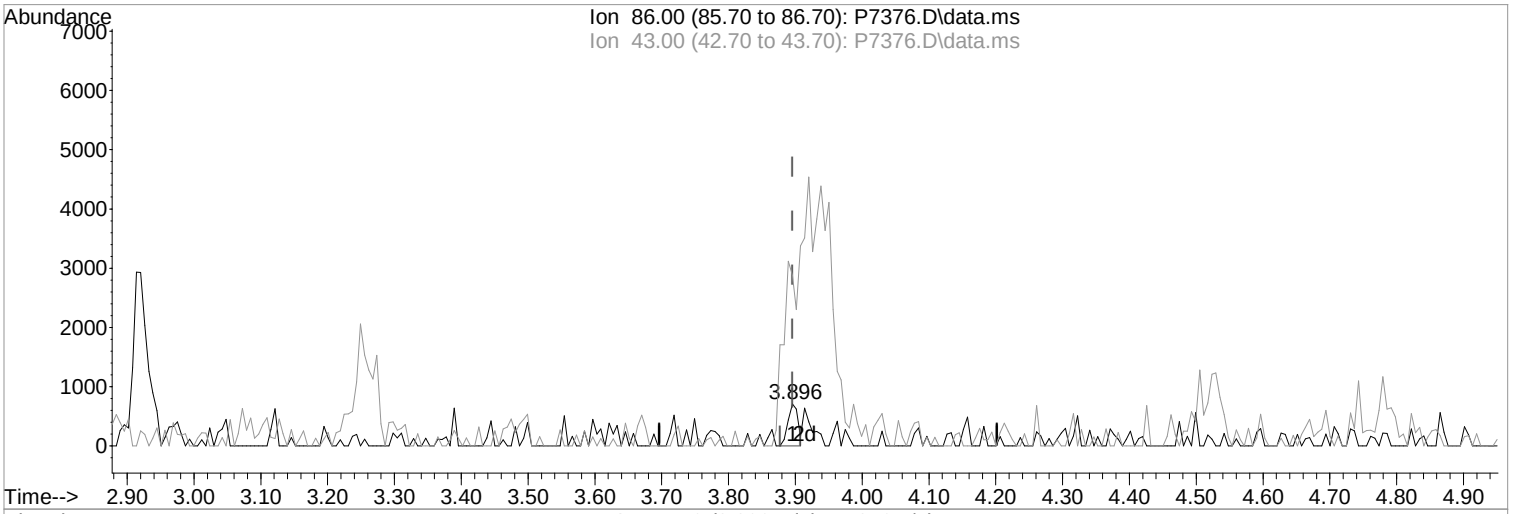
Poor integration.

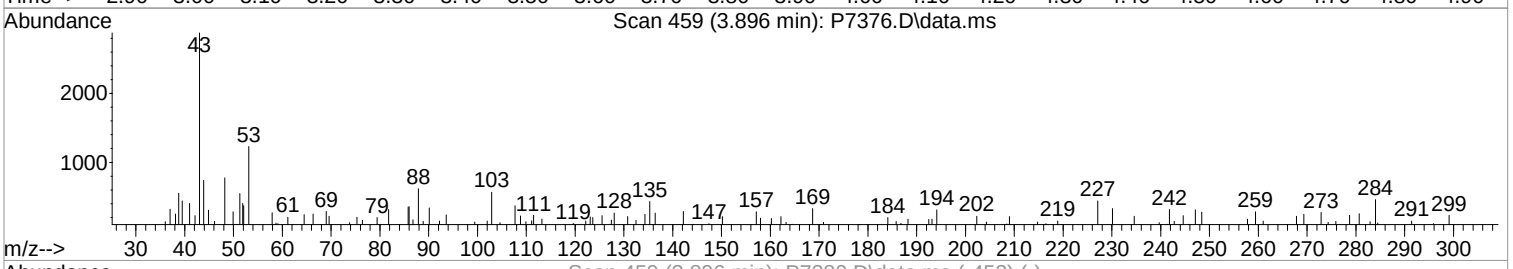
01/05/17

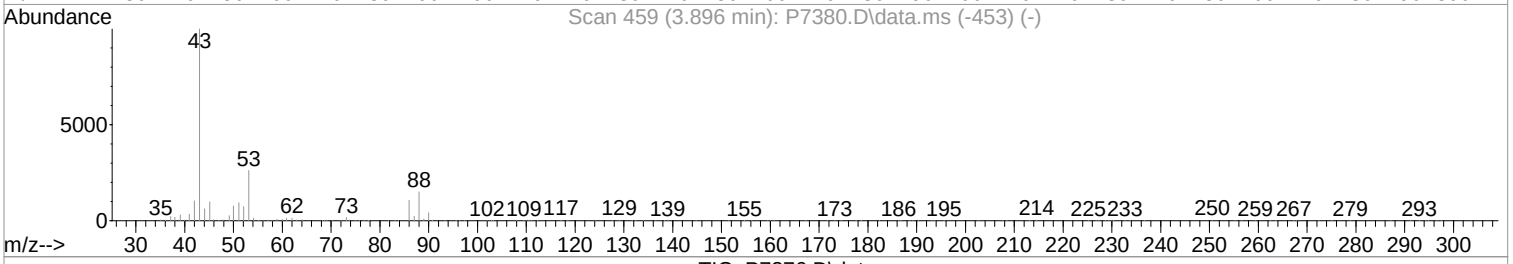
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(29) Vinyl Acetate

3.896min (+0.000) 0.73 ppb

response 748

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	406.06#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

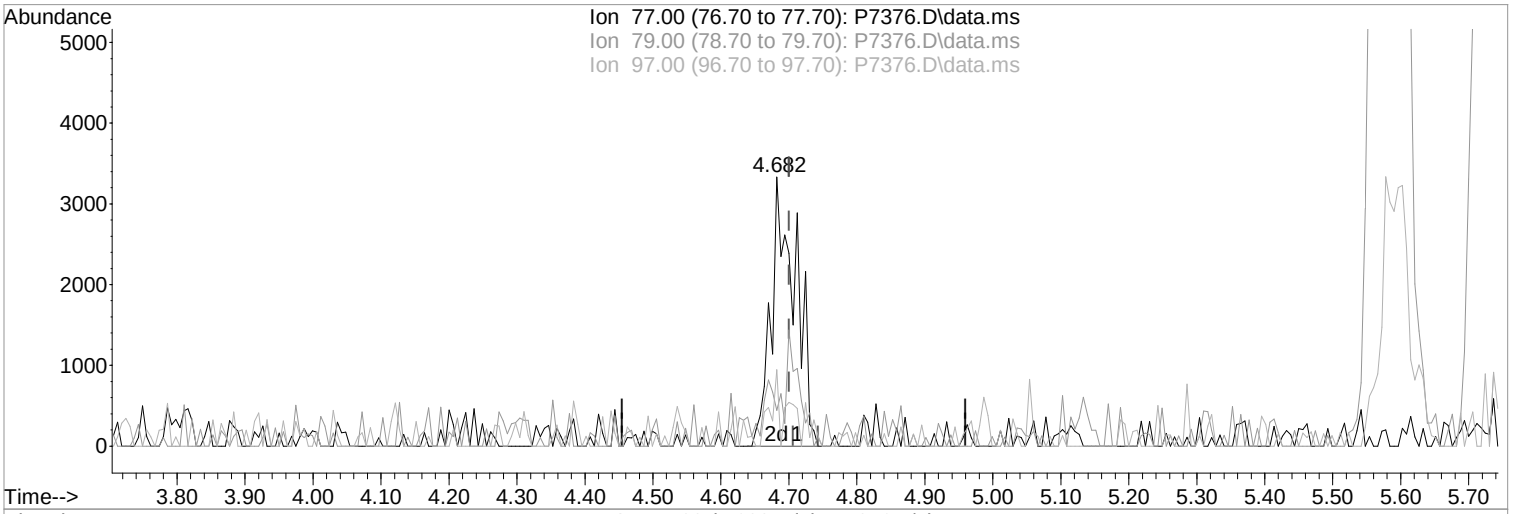
Before

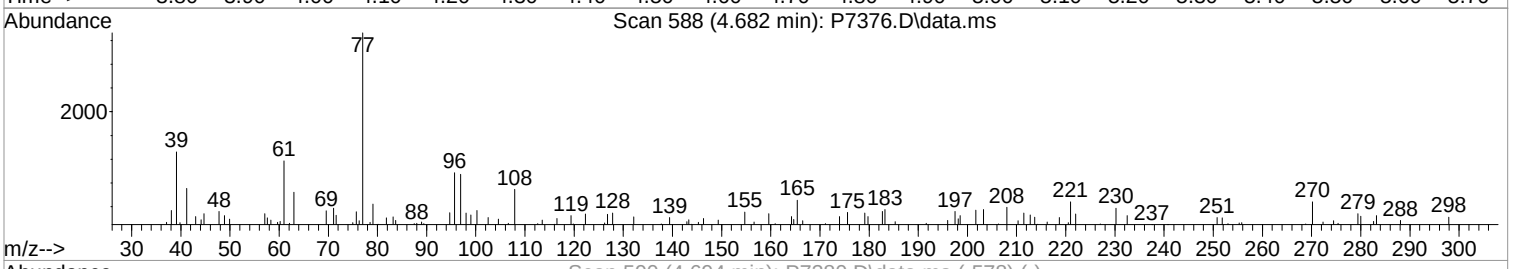
01/05/17

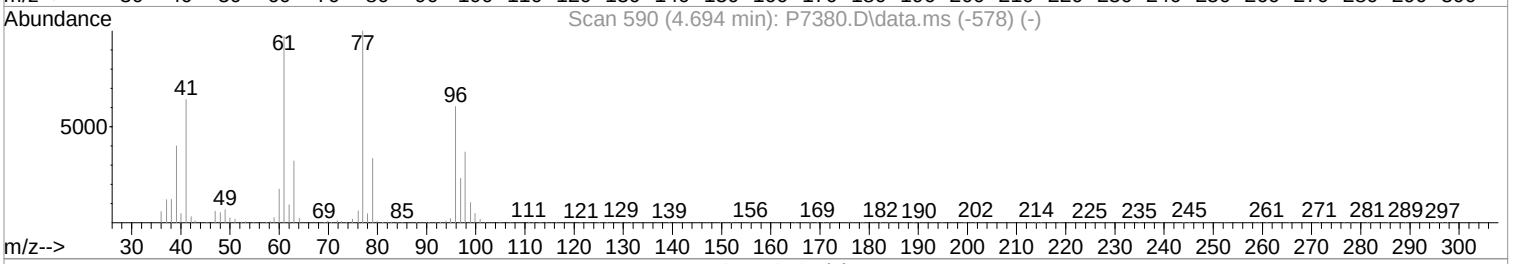
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(33) 2,2-Dichloropropane

4.682min (-0.018) 1.01 ppb m

response 8369

Ion	Exp%	Act%
77.00	100	100
79.00	33.80	13.27#
97.00	23.20	28.39
0.00	0.00	0.00

Manual Integration:

After

Split Peak

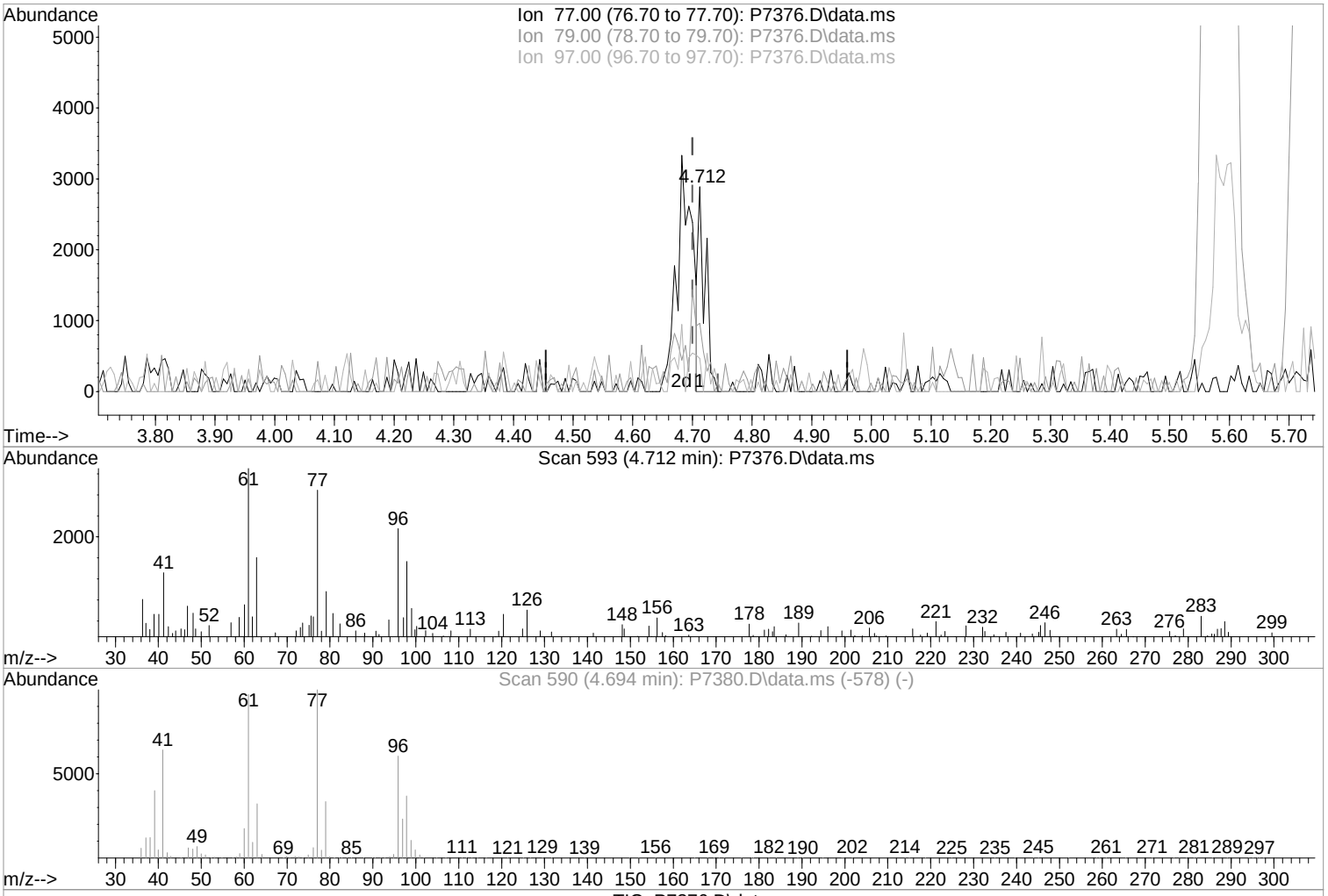
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(33) 2,2-Dichloropropane

4.712min (+0.012) 0.29 ppb

response 2365

Ion	Exp%	Act%
77.00	100	100
79.00	33.80	33.30
97.00	23.20	16.11
0.00	0.00	0.00

Manual Integration:

Before

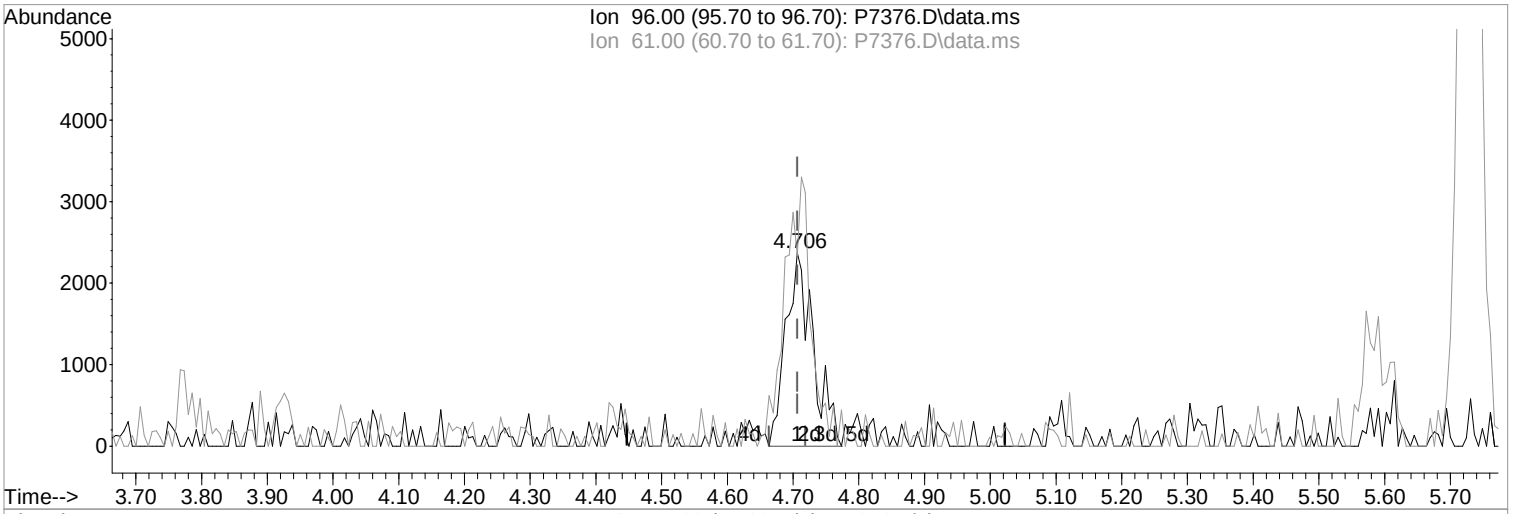
01/05/17

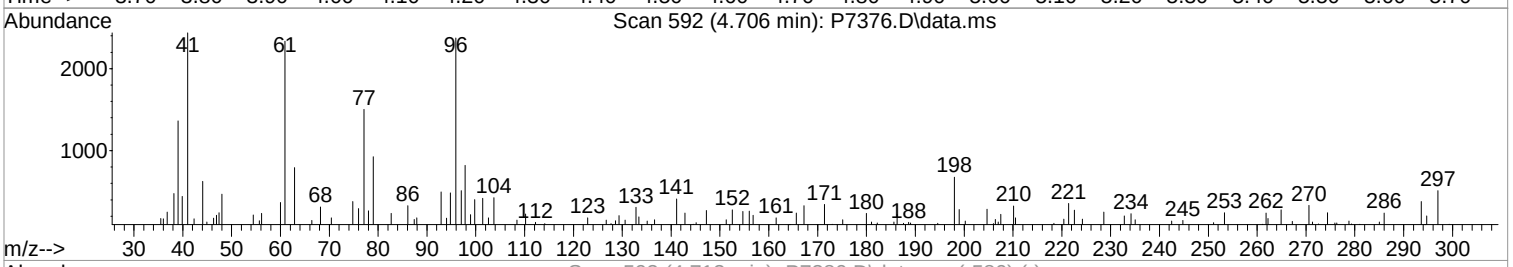
1st 01/05/17
2nd 01/05/17

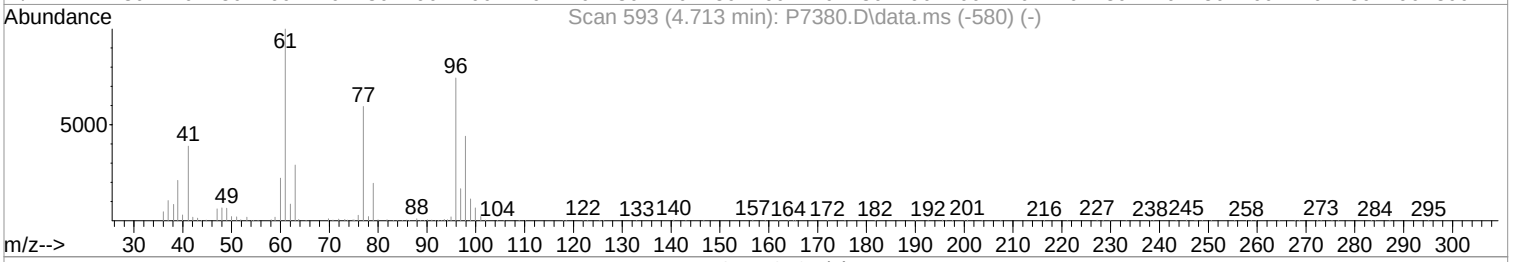
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.706min (+0.000) 1.03 ppb m

response 6828

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	98.36#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

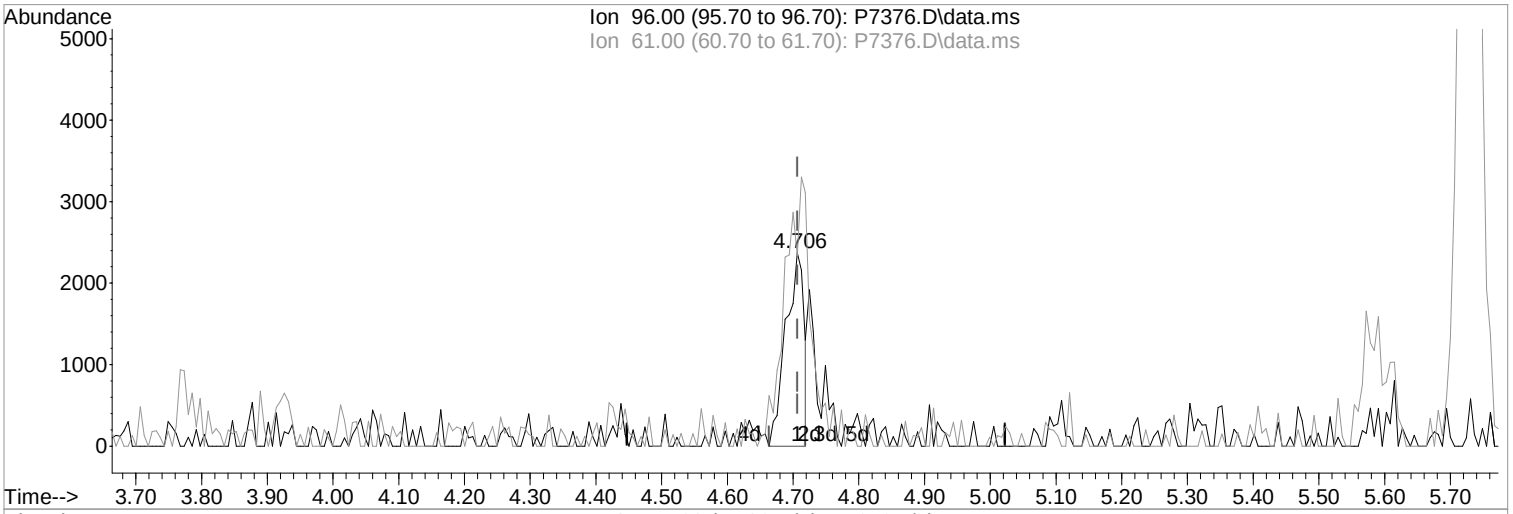
Split Peak

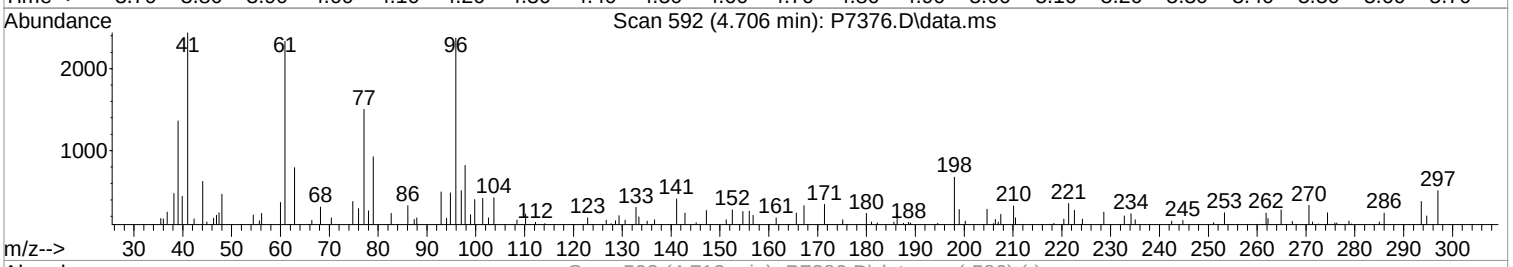
01/05/17

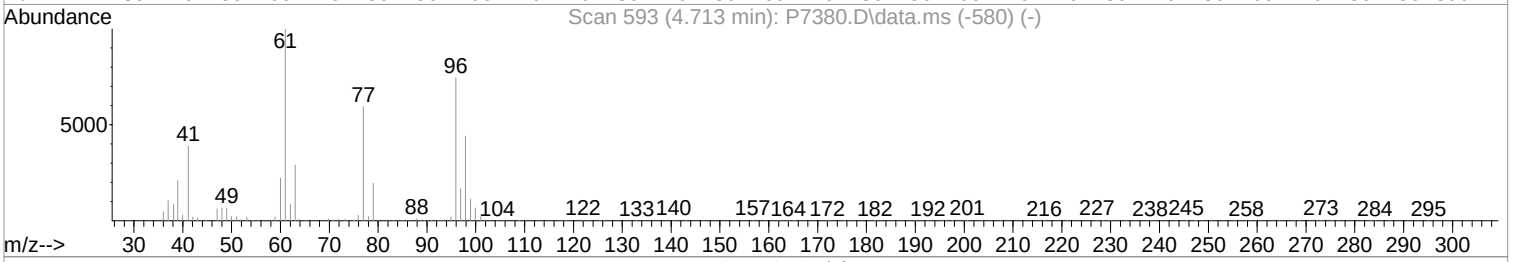
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.706min (+0.000) 0.69 ppb

response 4537

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	98.36#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

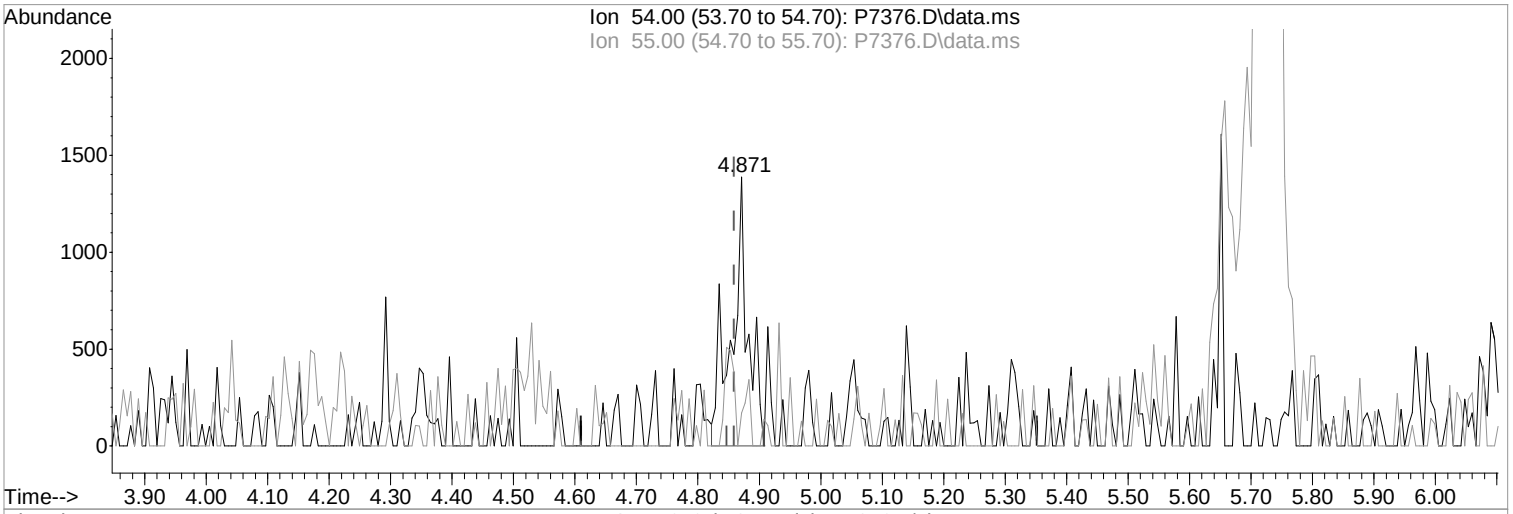
Before

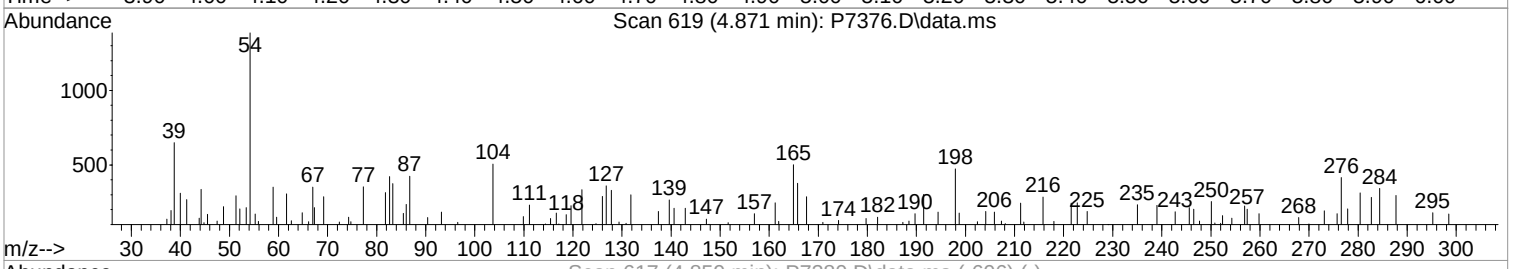
01/05/17

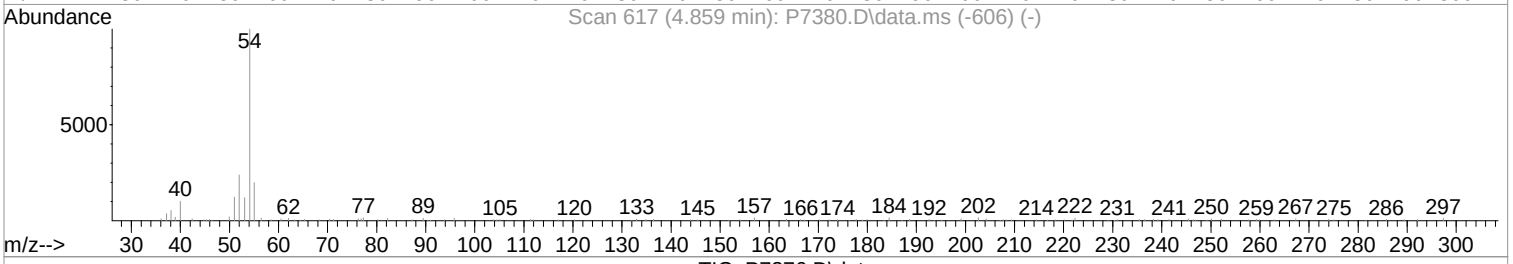
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(36) Propionitrile

4.871min (+0.012) 5.07 ppb m

response 2571

Ion	Exp%	Act%
54.00	100	100
55.00	20.30	12.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

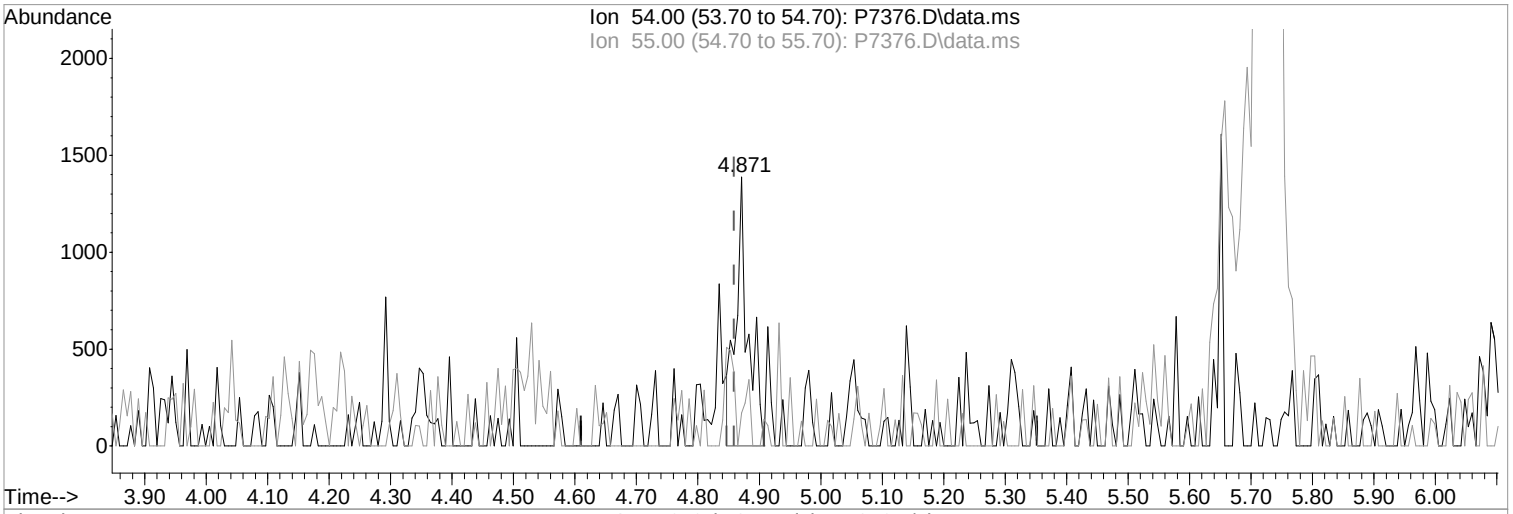
Split Peak

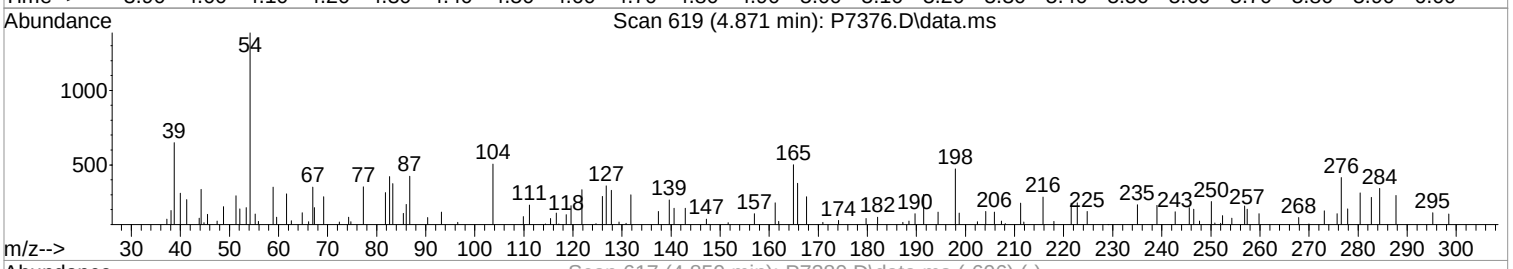
01/05/17

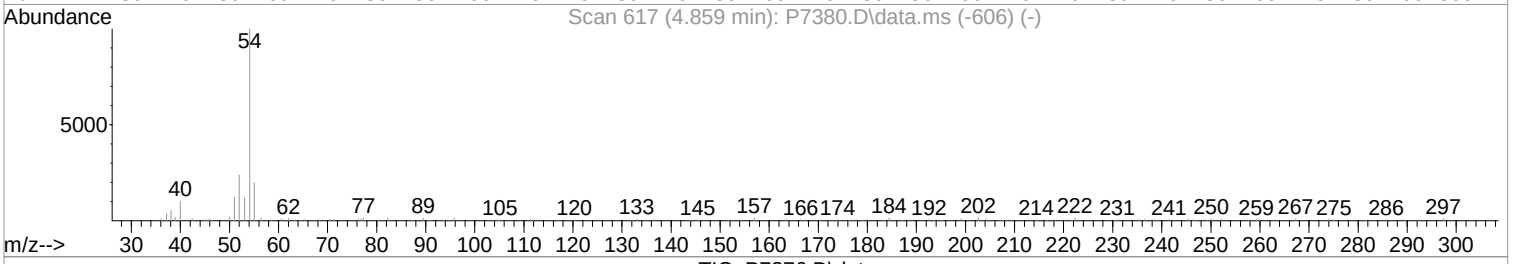
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(36) Propionitrile

4.871min (+0.012) 3.83 ppb

response 1942

Ion	Exp%	Act%
54.00	100	100
55.00	20.30	12.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

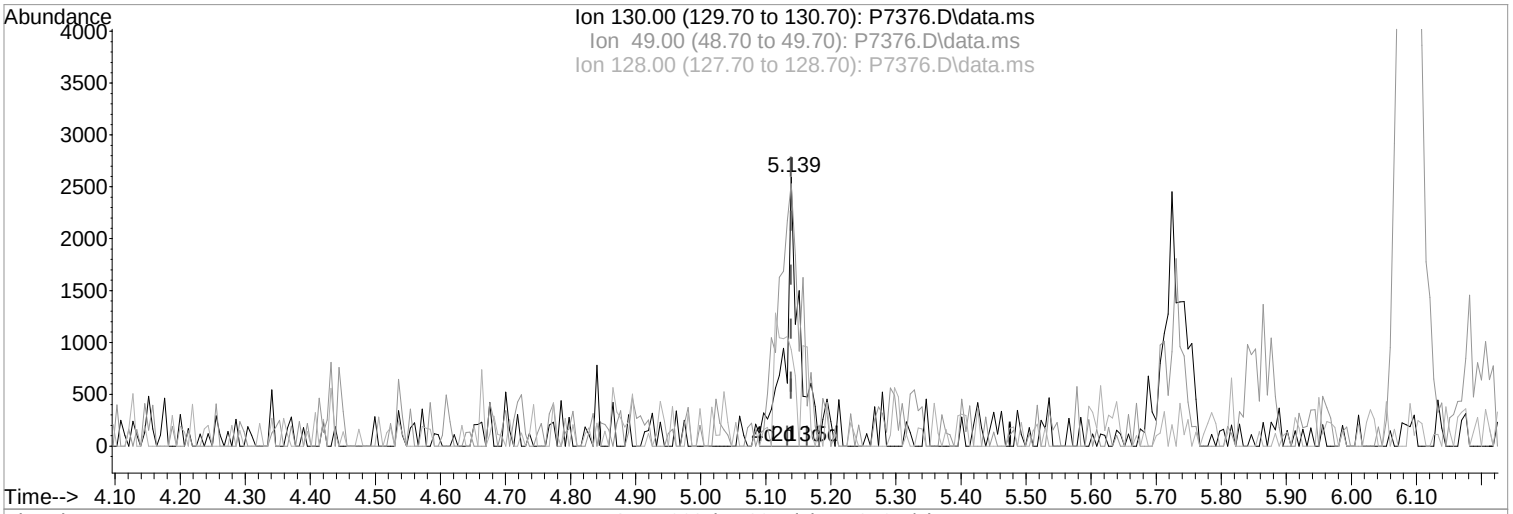
Before

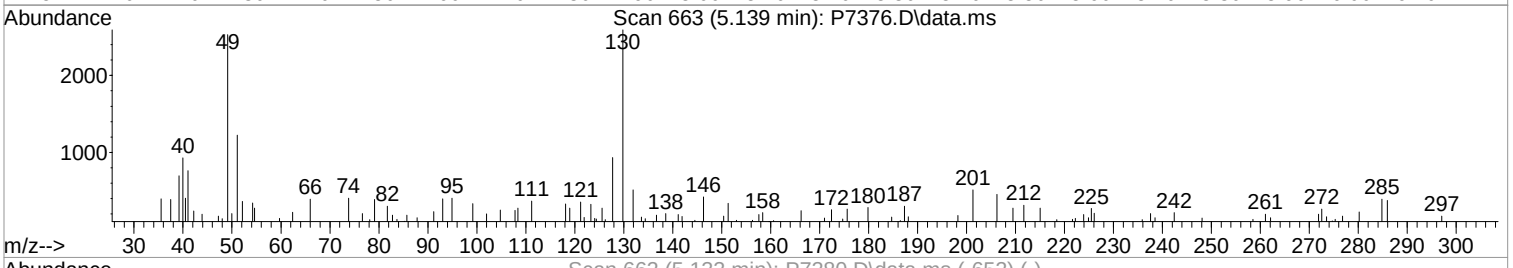
01/05/17

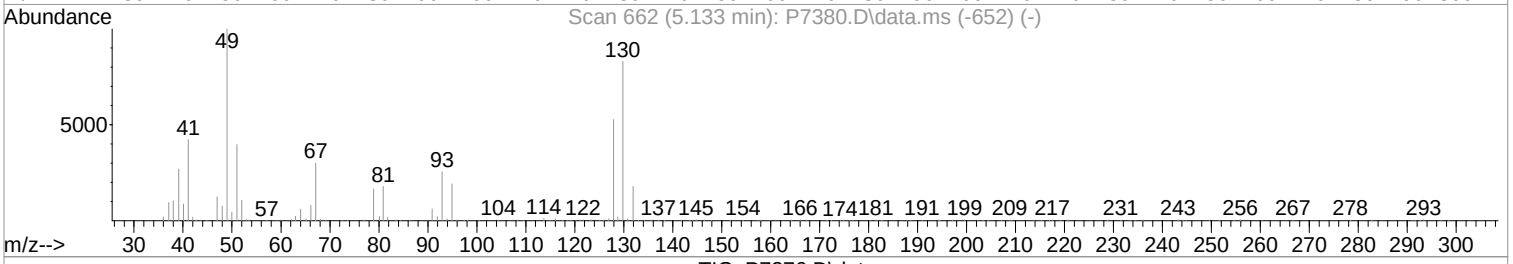
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(37) Bromochloromethane

5.139min (+0.000) 1.10 ppb m

response 4002

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	97.46#
128.00	64.20	35.89#
0.00	0.00	0.00

Manual Integration:

After

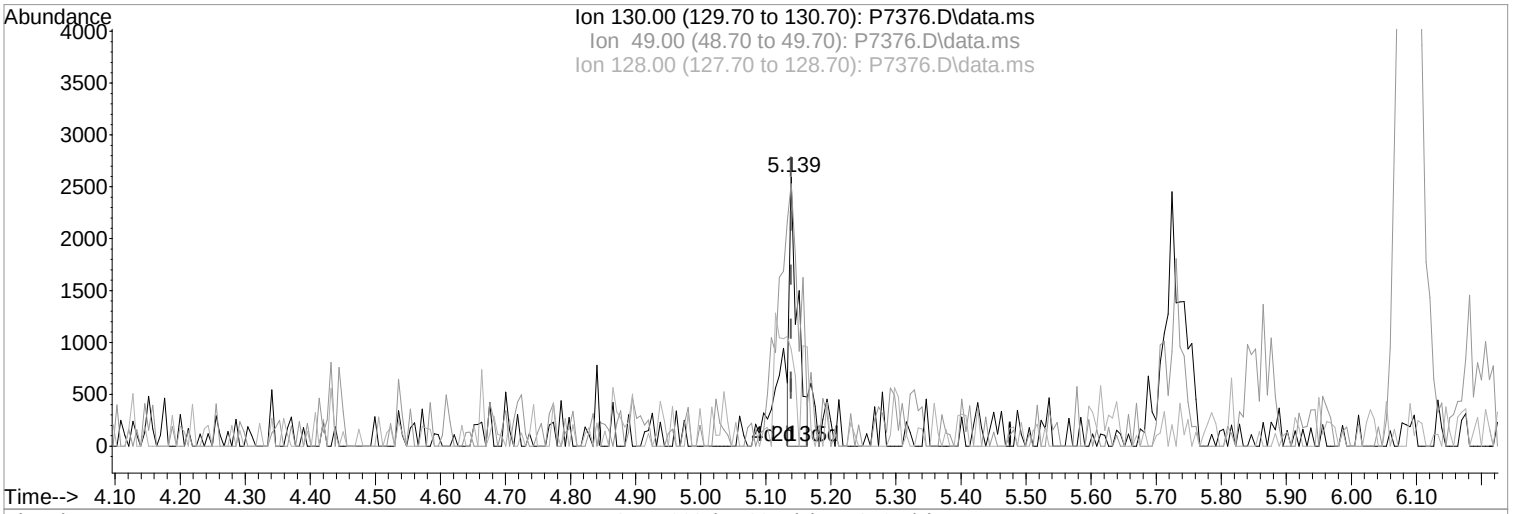
Split Peak

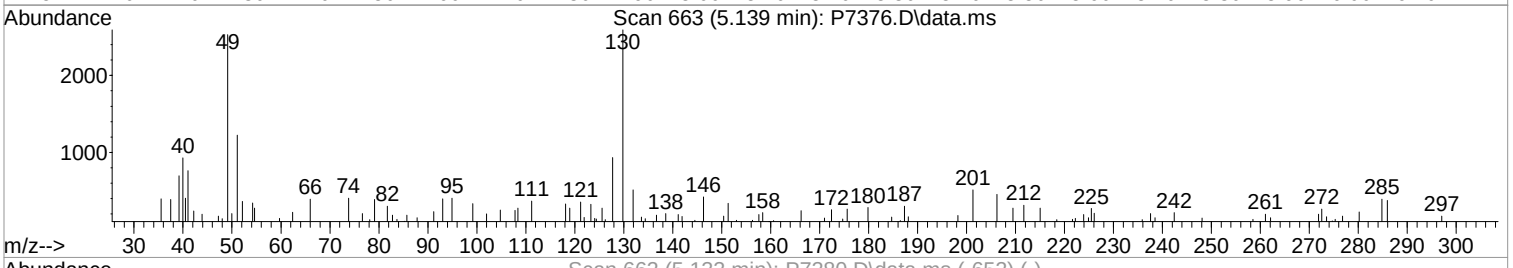
01/05/17

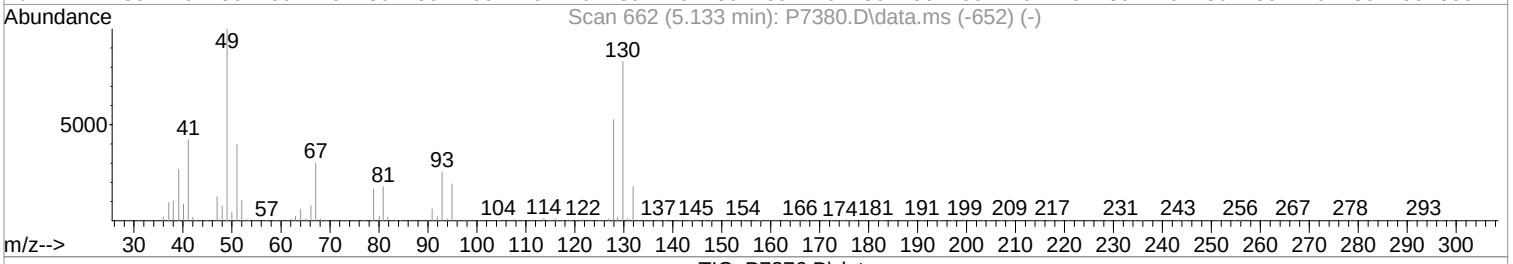
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(37) Bromochloromethane

5.139min (+0.000) 0.63 ppb

response 2276

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	97.46#
128.00	64.20	35.89#
0.00	0.00	0.00

Manual Integration:

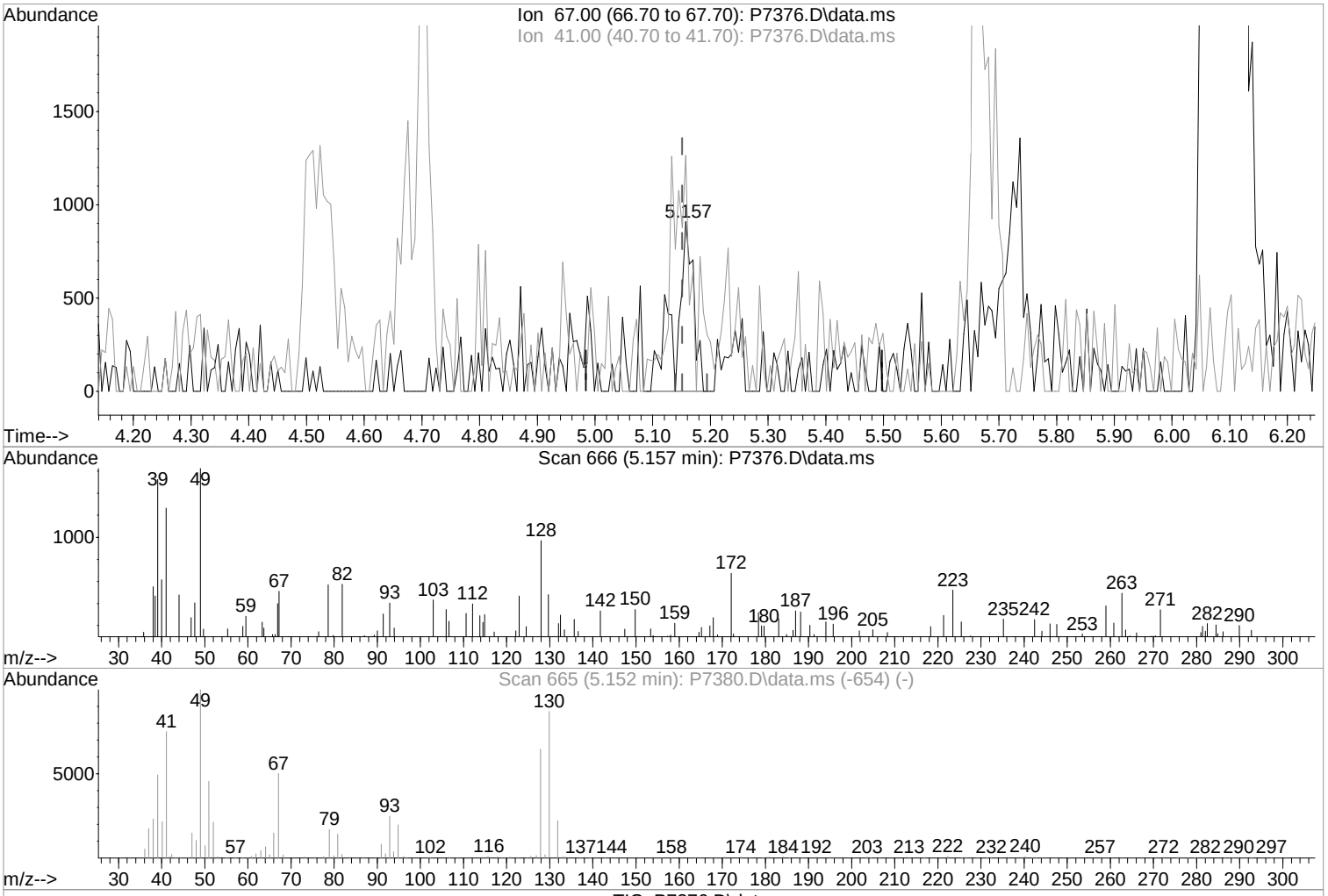
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(38) Methacrylonitrile

5.157min (+0.006) 1.24 ppb m

response 2018

Ion	Exp%	Act%
67.00	100	100
41.00	150.60	247.55#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

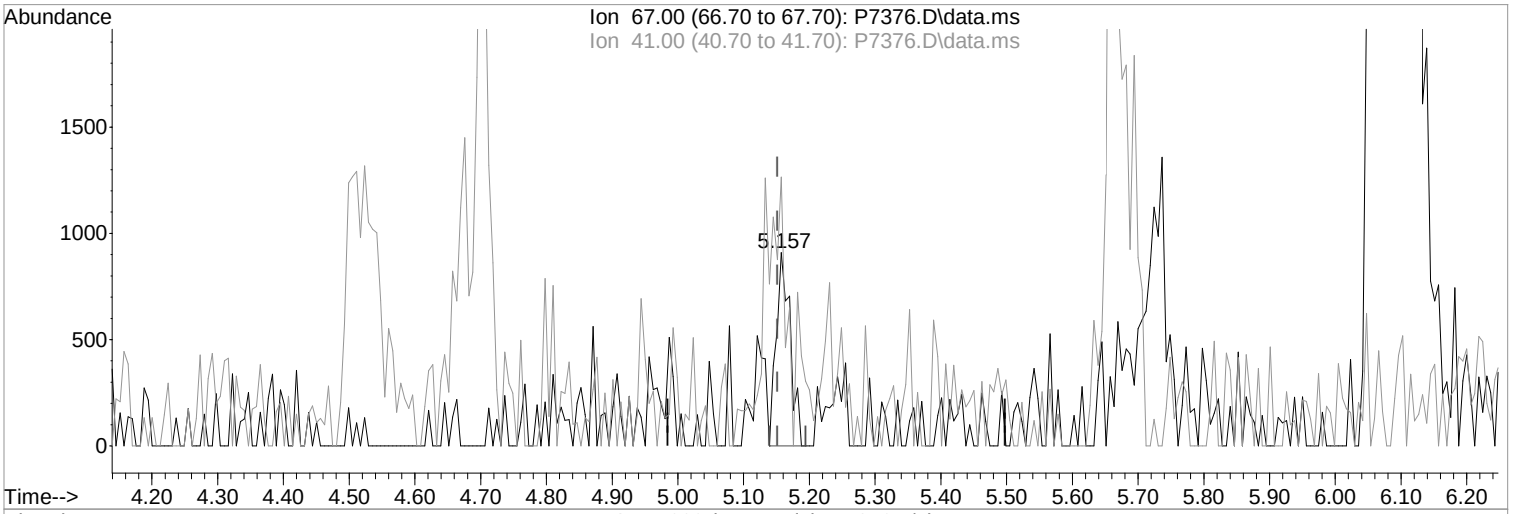
01/05/17

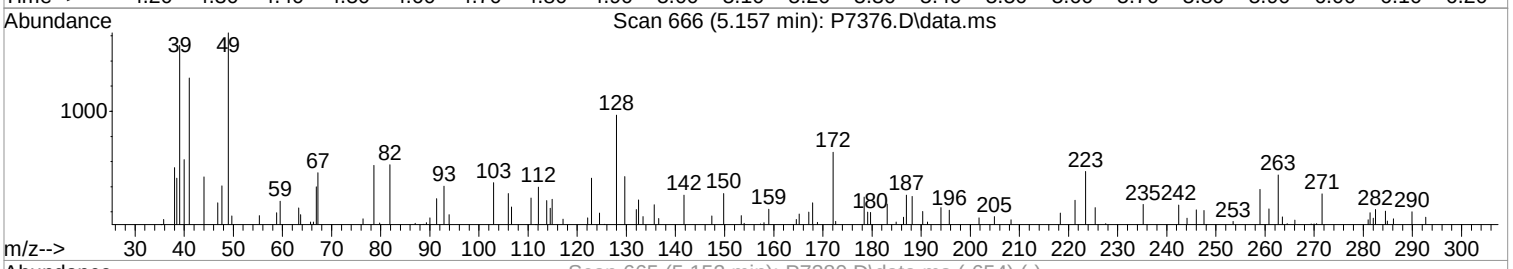
1st 01/05/17
2nd 01/05/17

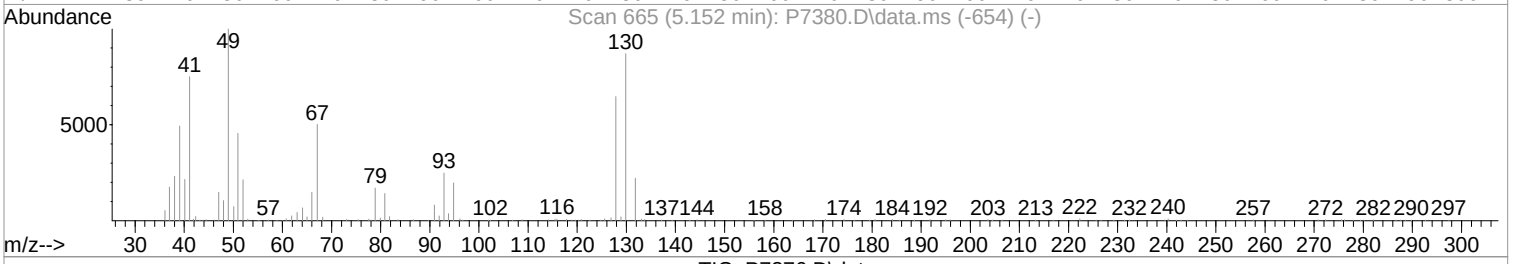
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(38) Methacrylonitrile

5.157min (+0.006) 0.82 ppb

response 1341

Ion	Exp%	Act%
67.00	100	100
41.00	150.60	139.16
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

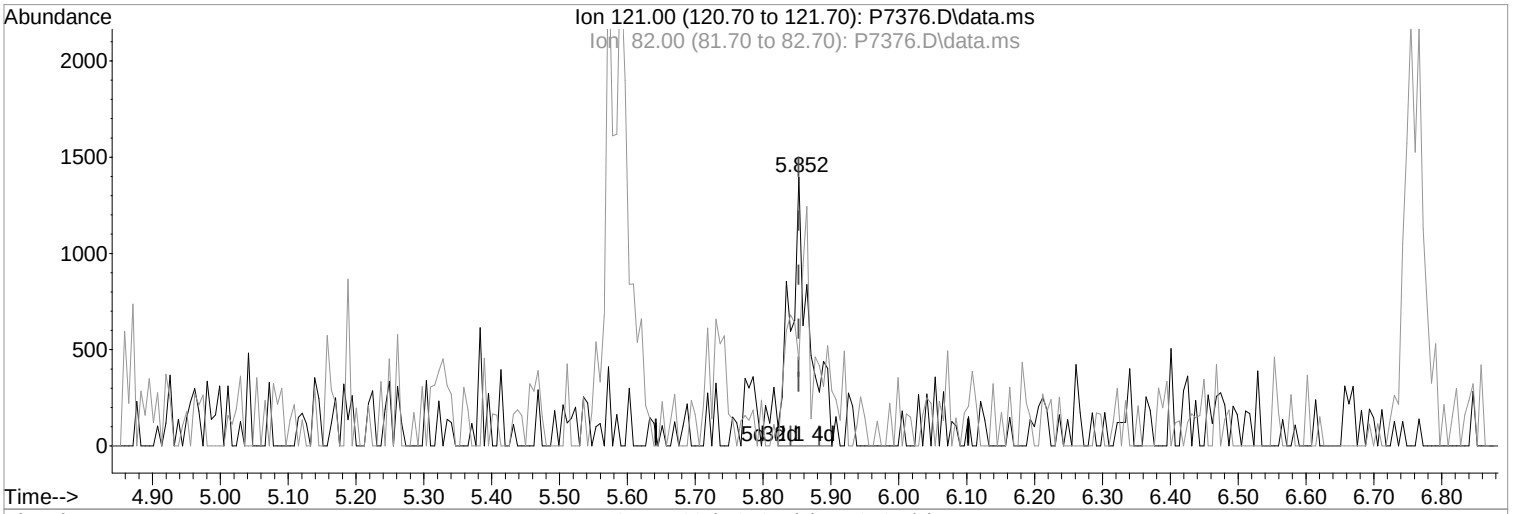
Before

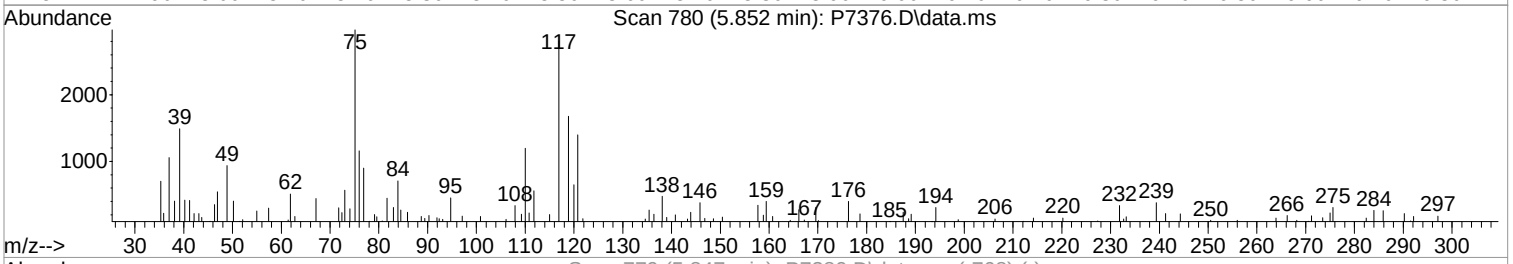
01/05/17

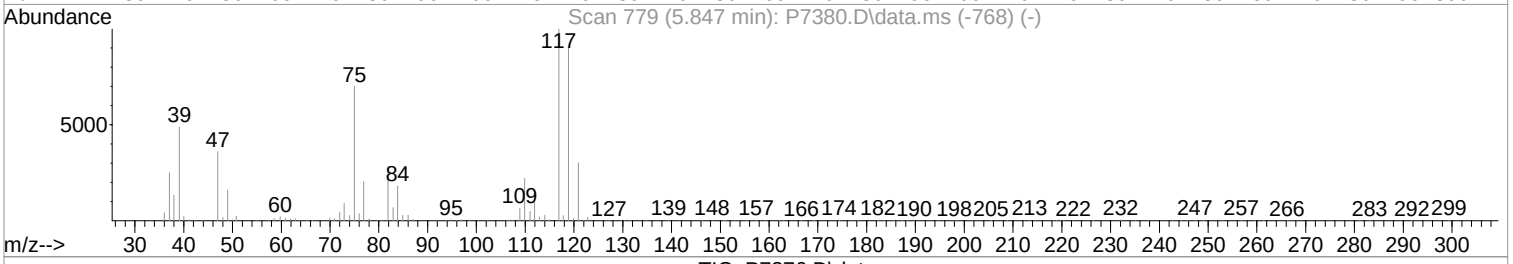
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(46) Carbontetrachloride (P)

5.852min (+0.000) 1.16 ppb m

response 2625

Ion	Exp%	Act%
121.00	100	100
82.00	93.70	32.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

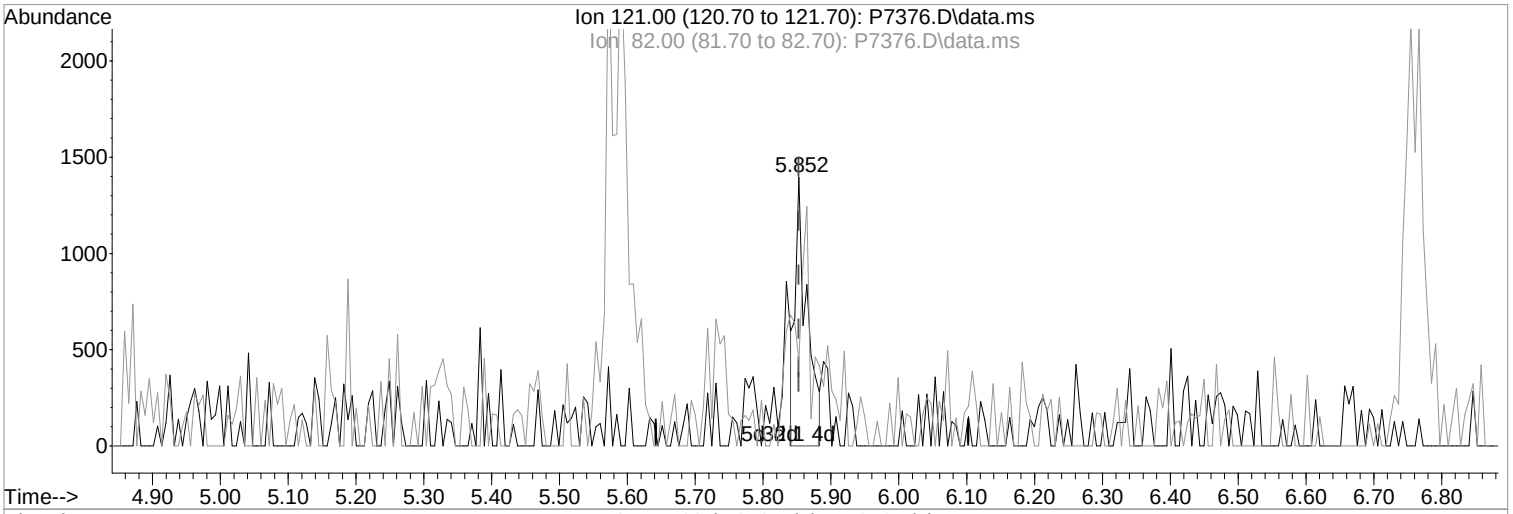
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(46) Carbontetrachloride (P)

5.852min (+0.000) 0.75 ppb

response 1693

Ion	Exp%	Act%
121.00	100	100
82.00	93.70	32.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

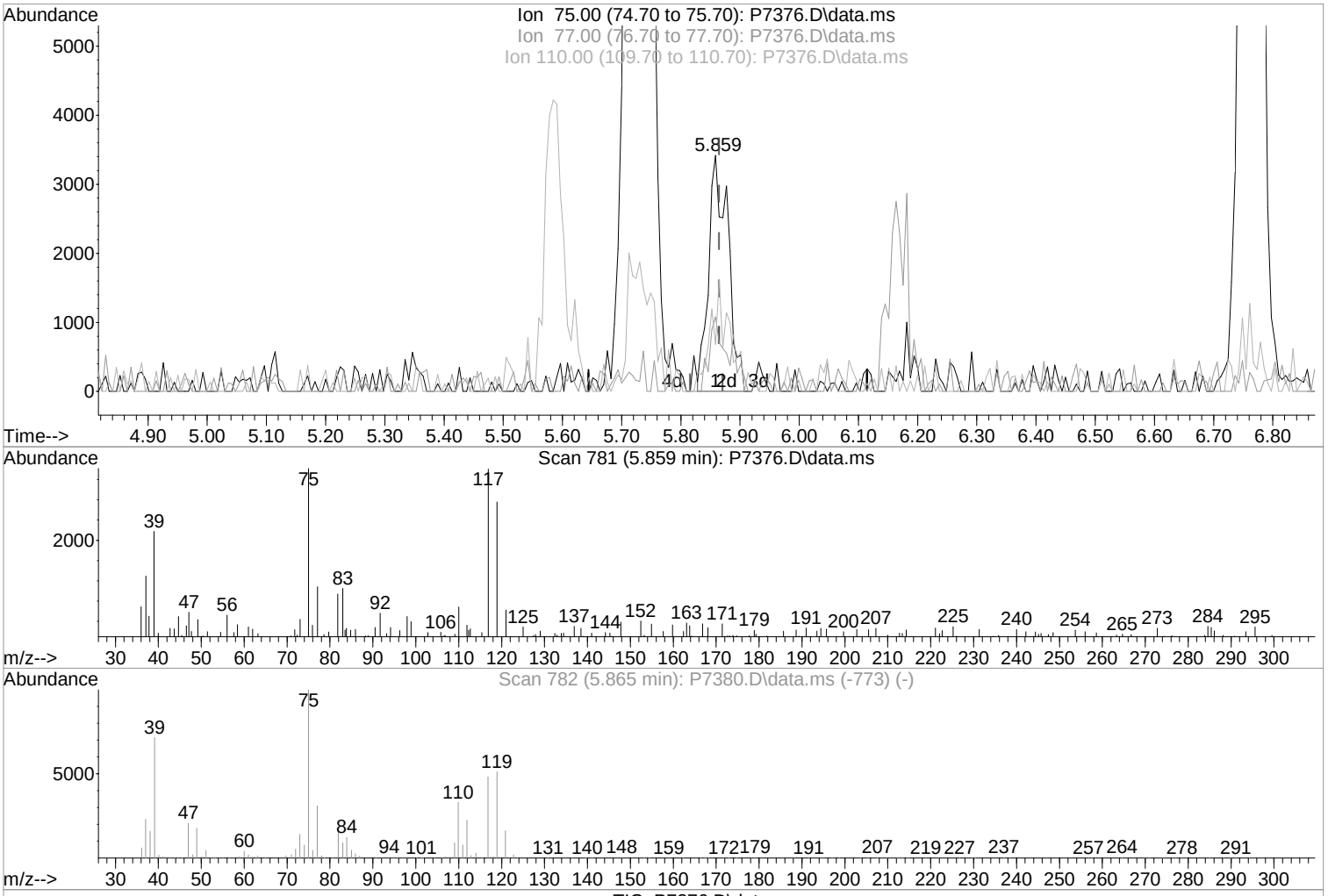
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(47) 1,1-Dichloropropene

5.859min (-0.006) 0.96 ppb m

response 7733

Ion	Exp%	Act%
75.00	100	100
77.00	30.90	31.62
110.00	33.10	19.98
0.00	0.00	0.00

Manual Integration:

After

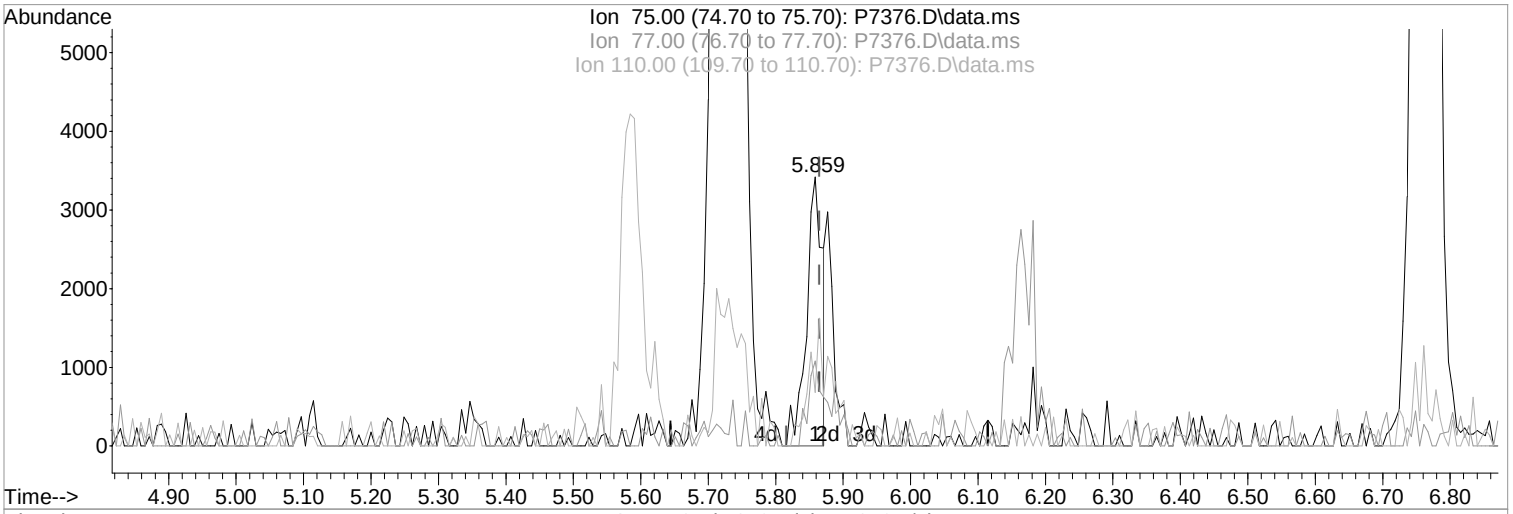
Split Peak

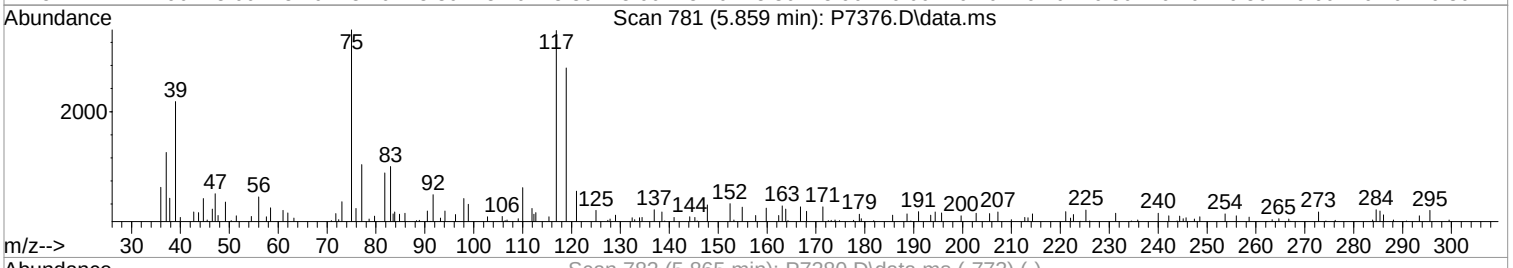
01/05/17

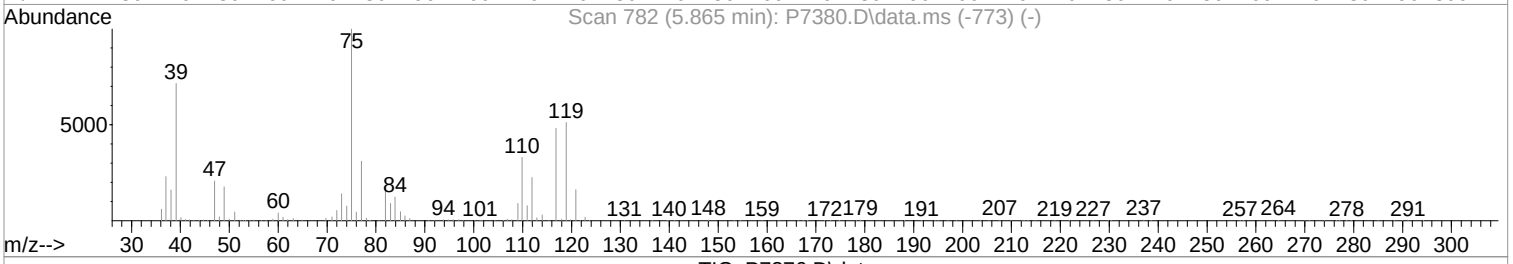
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(47) 1,1-Dichloropropene

5.859min (-0.006) 0.68 ppb

response 5514

Ion	Exp%	Act%
75.00	100	100
77.00	30.90	31.62
110.00	33.10	19.98
0.00	0.00	0.00

Manual Integration:

Before

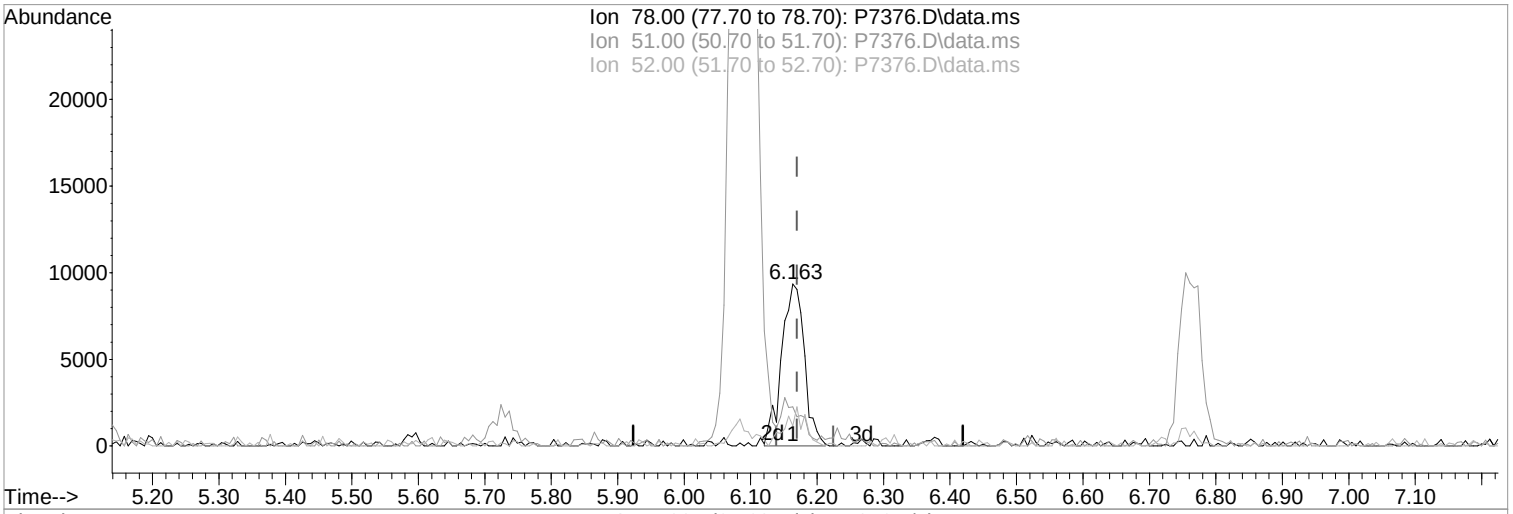
01/05/17

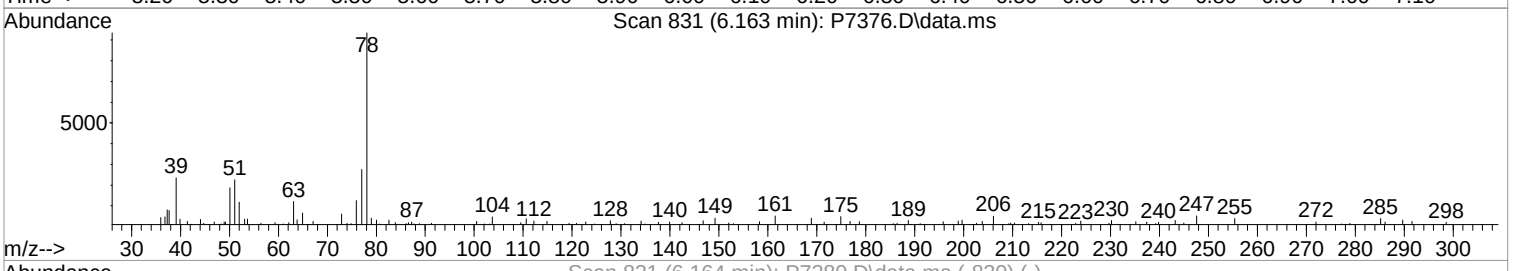
1st 01/05/17
2nd 01/05/17

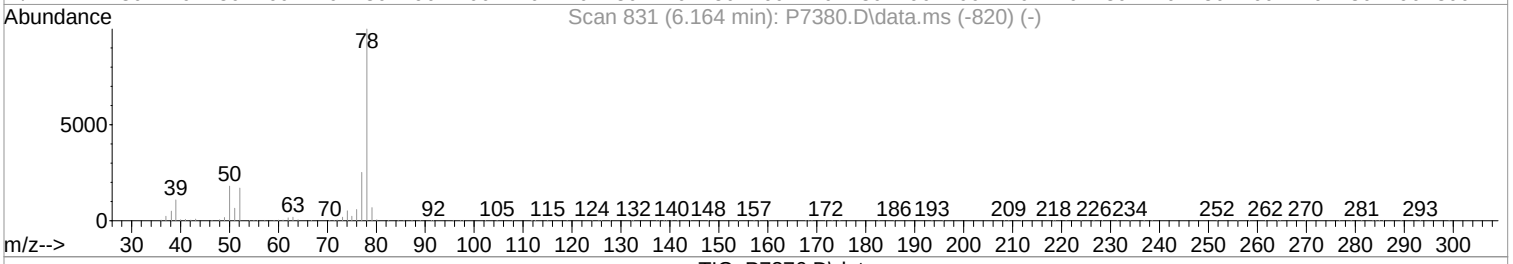
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(49) Benzene (P)

6.163min (-0.006) 1.03 ppb m

response 22254

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	24.17
52.00	16.90	12.58
0.00	0.00	0.00

Manual Integration:

After

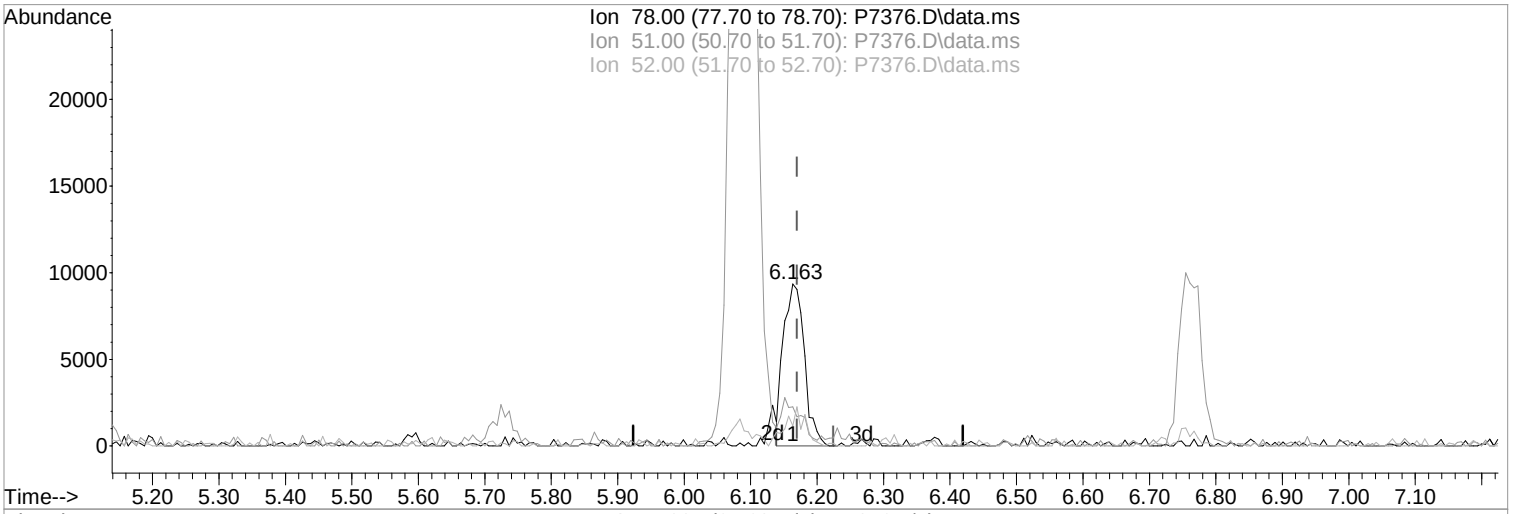
Split Peak

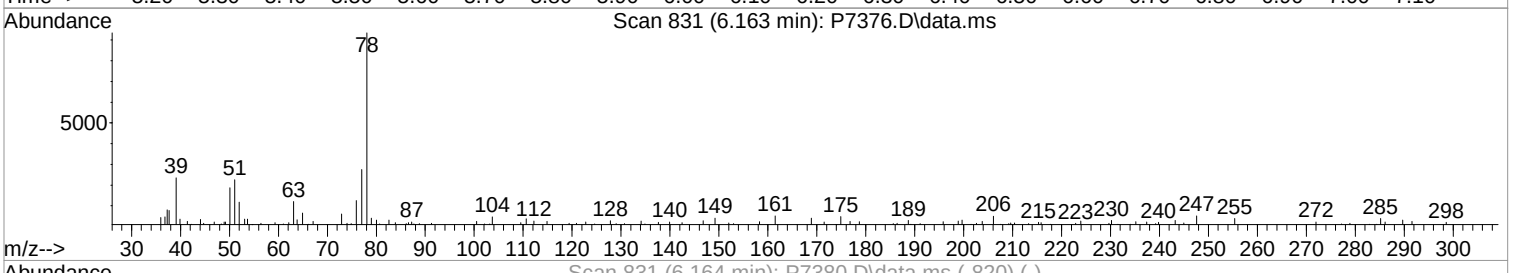
01/05/17

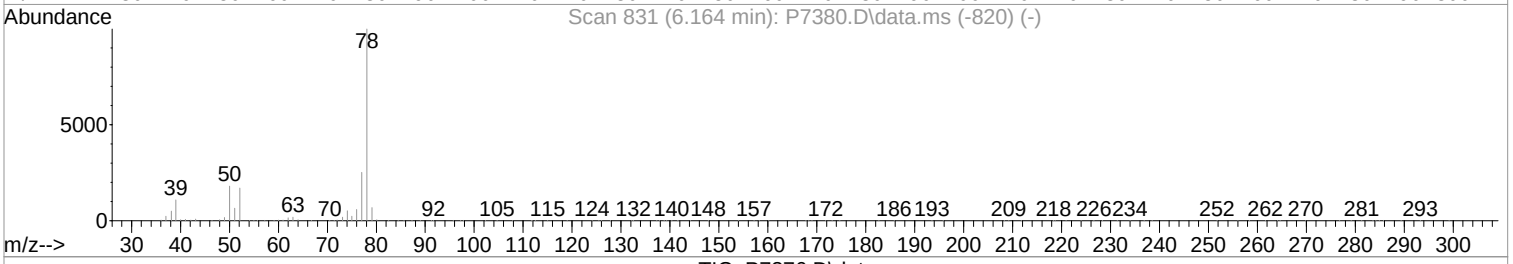
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(49) Benzene (P)

6.163min (-0.006) 0.95 ppb

response 20455

Ion	Exp%	Act%
78.00	100	100
51.00	18.80	24.17
52.00	16.90	12.58
0.00	0.00	0.00

Manual Integration:

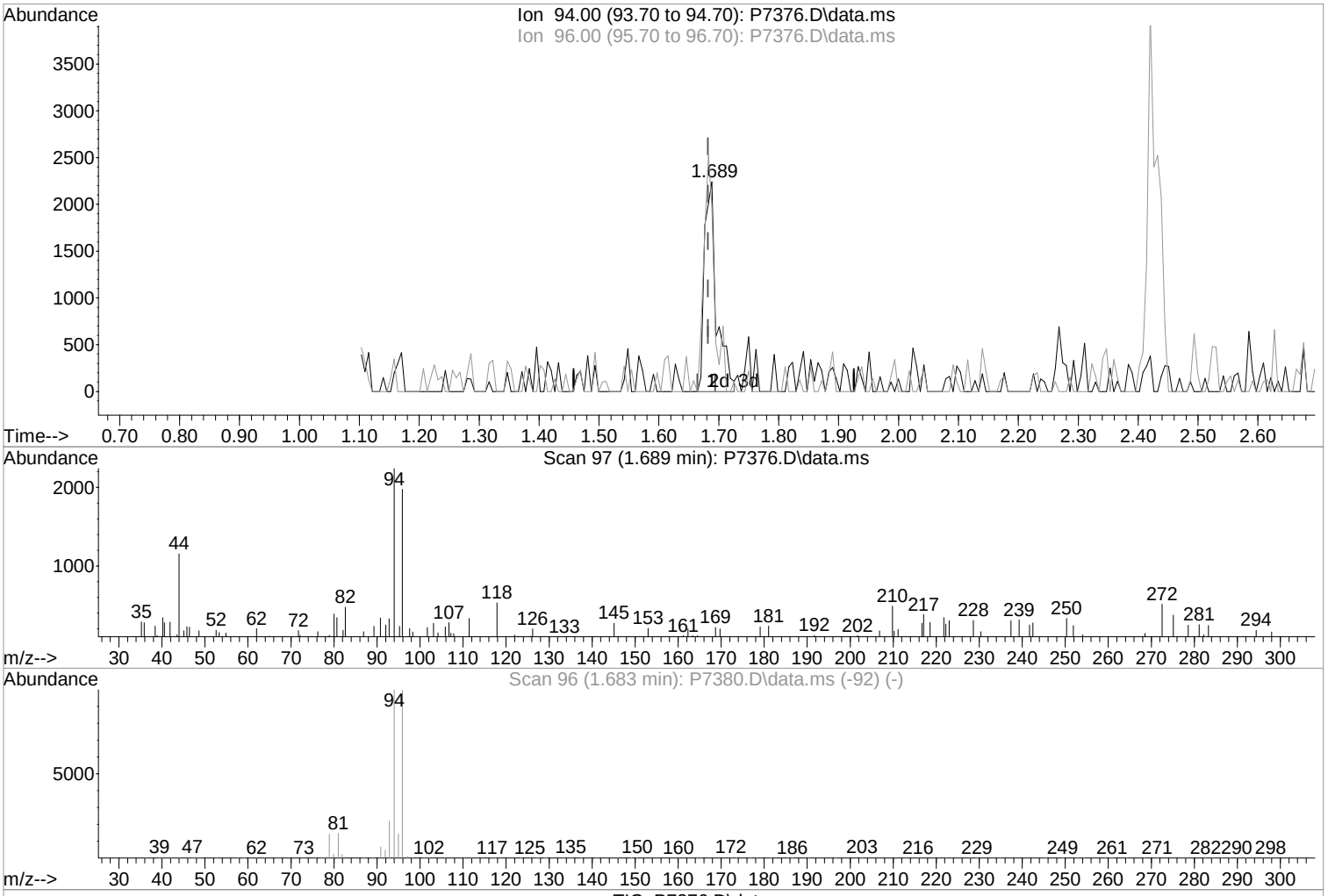
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(5) Bromomethane (P)

1.689min (+0.006) 0.85 ppb m

response 3177

Ion	Exp%	Act%
94.00	100	100
96.00	99.40	88.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

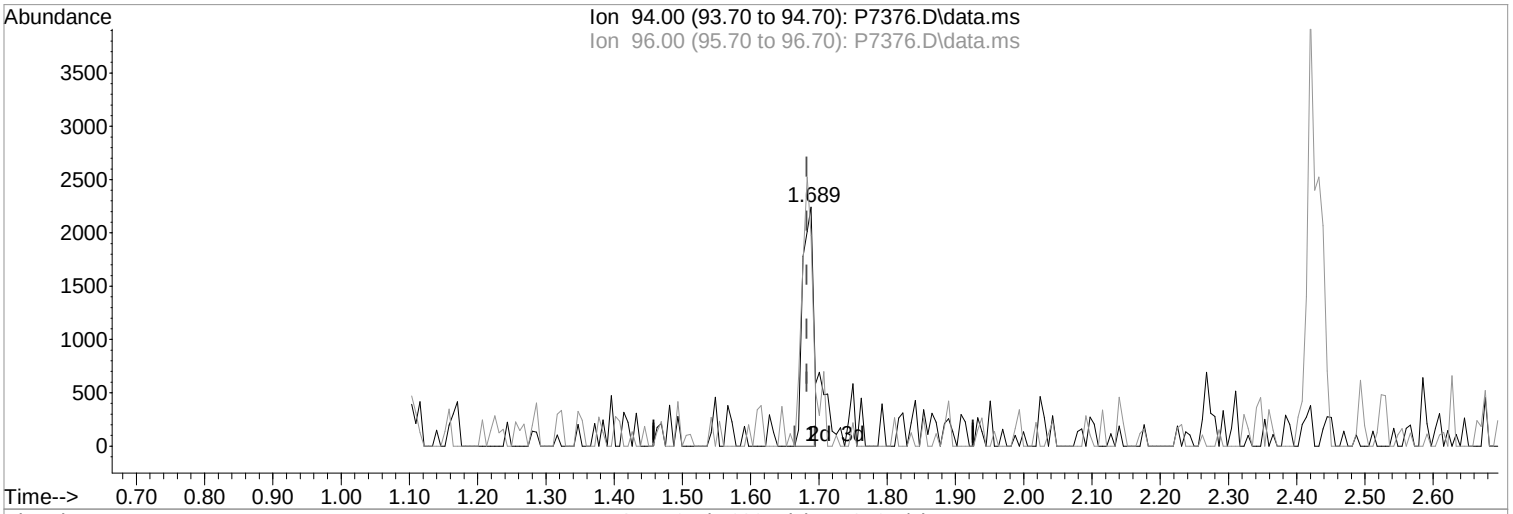
Split Peak

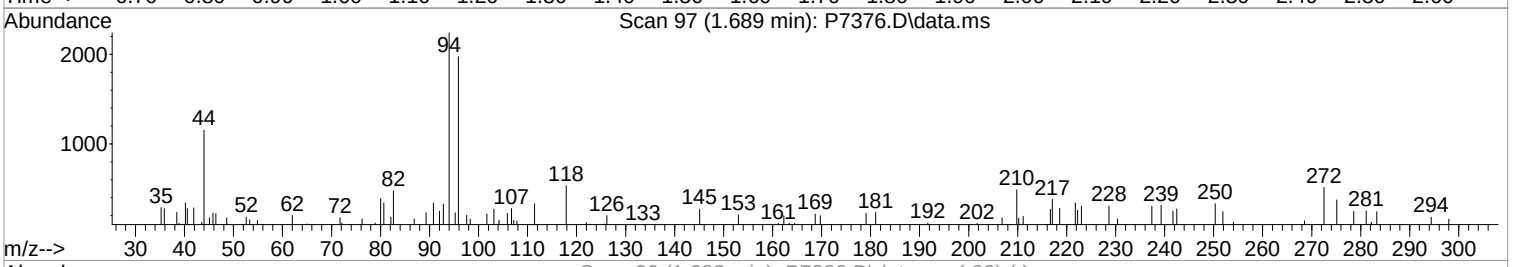
01/05/17

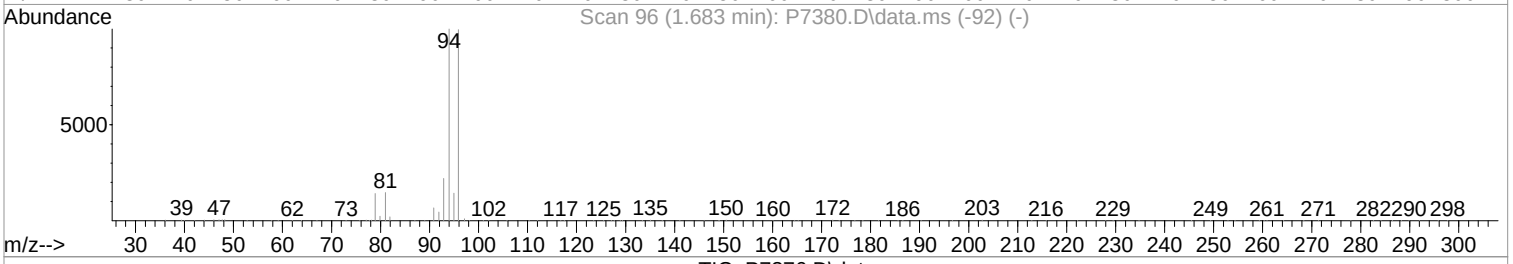
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(5) Bromomethane (P)

1.689min (+0.006) 0.66 ppb

response 2478

Ion	Exp%	Act%
94.00	100	100
96.00	99.40	88.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

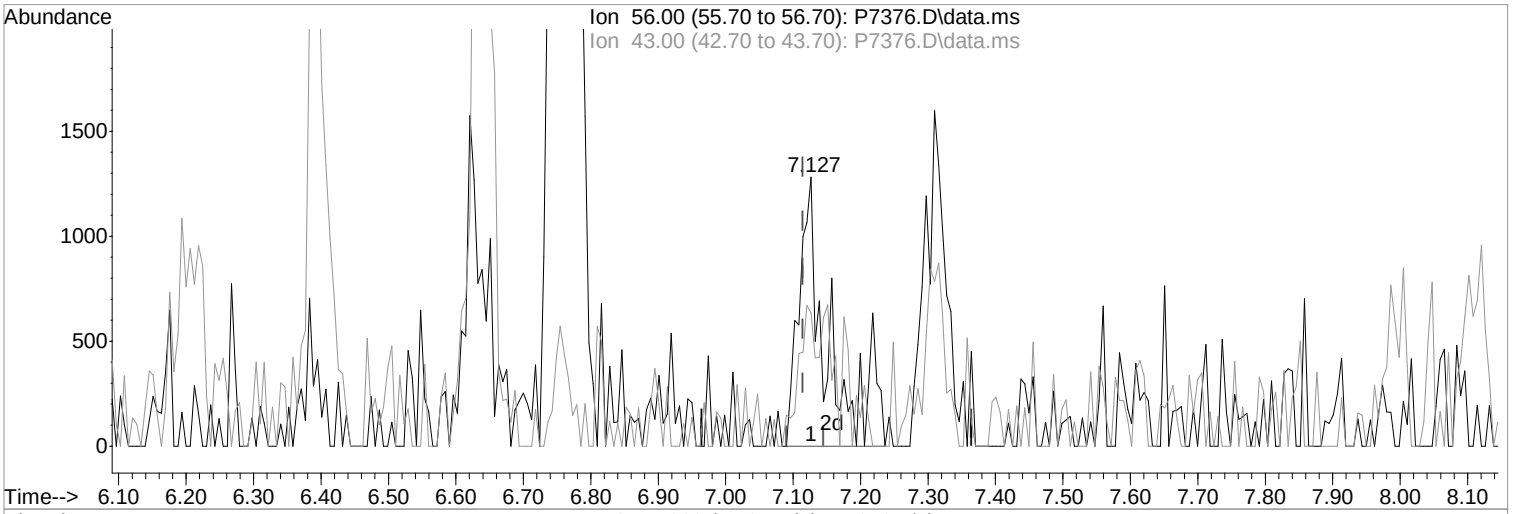
Before

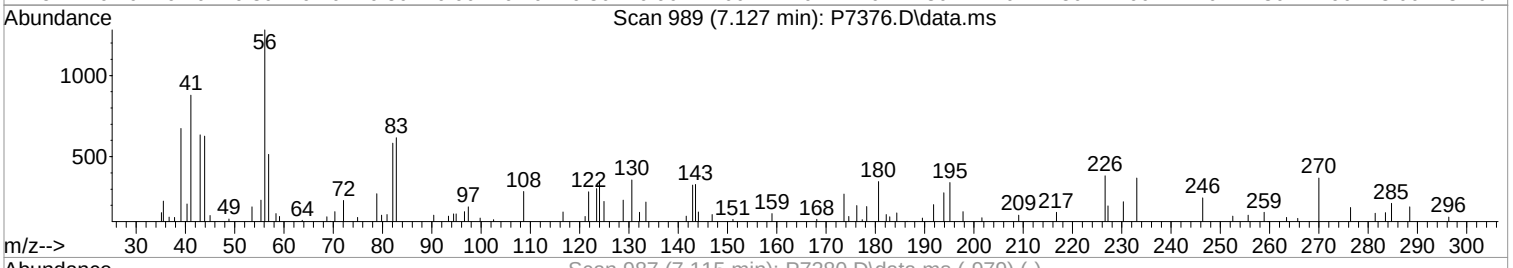
01/05/17

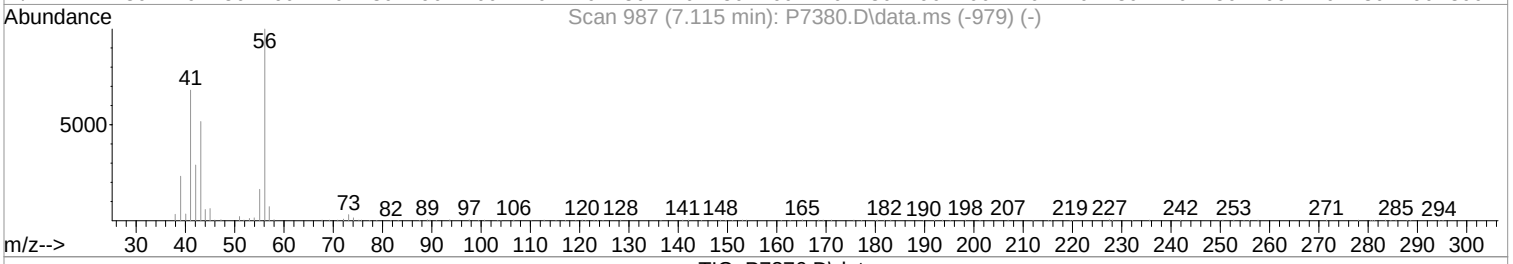
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(53) 1-Butanol

7.127min (+0.012) 49.69 ppb m

response 3768

Ion	Exp%	Act%
56.00	100	100
43.00	57.60	29.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

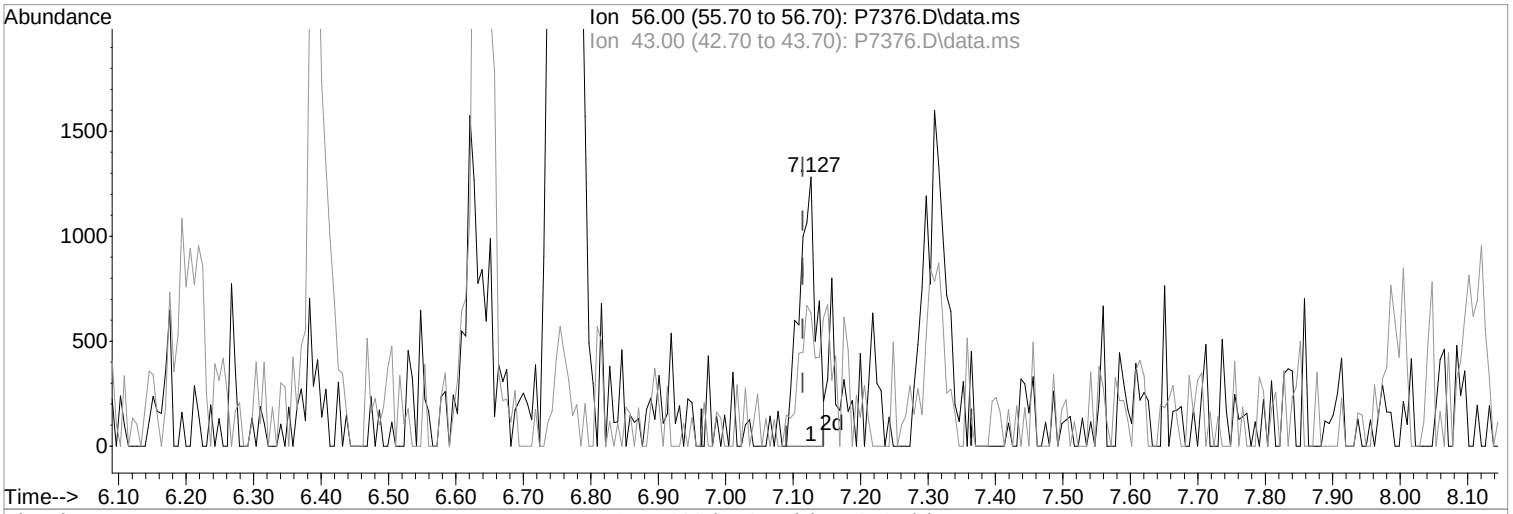
Split Peak

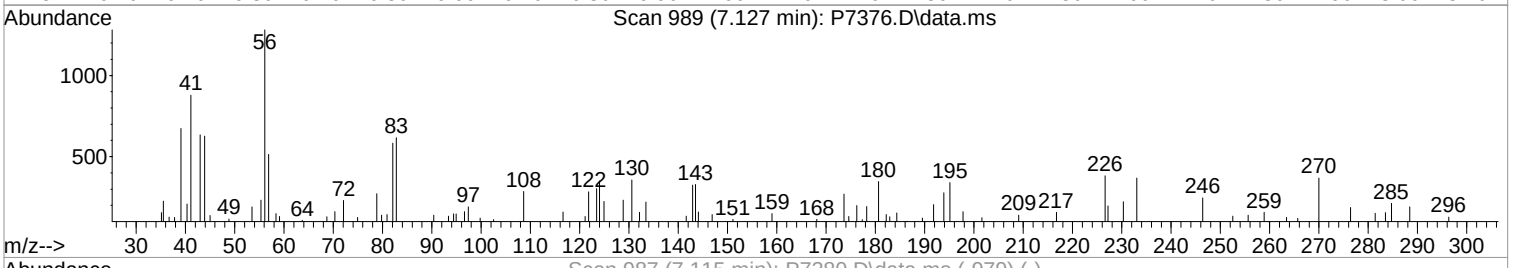
01/05/17

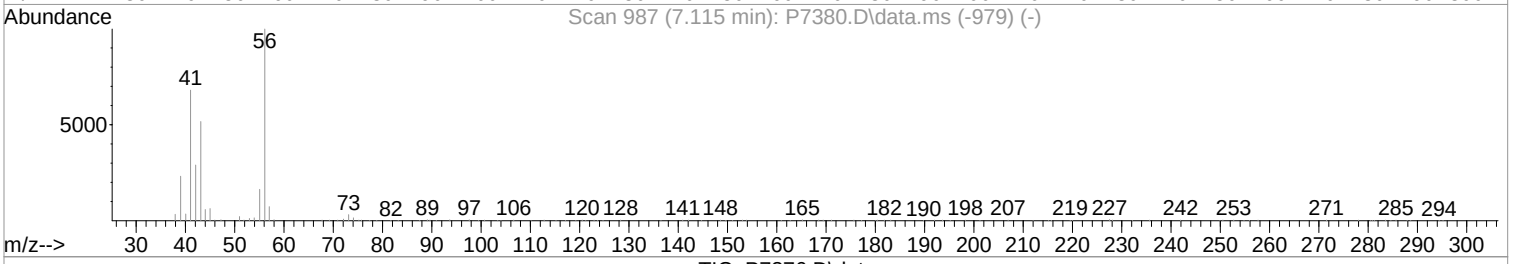
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(53) 1-Butanol

7.127min (+0.012) 29.83 ppb

response 2262

Ion	Exp%	Act%
56.00	100	100
43.00	57.60	49.43
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

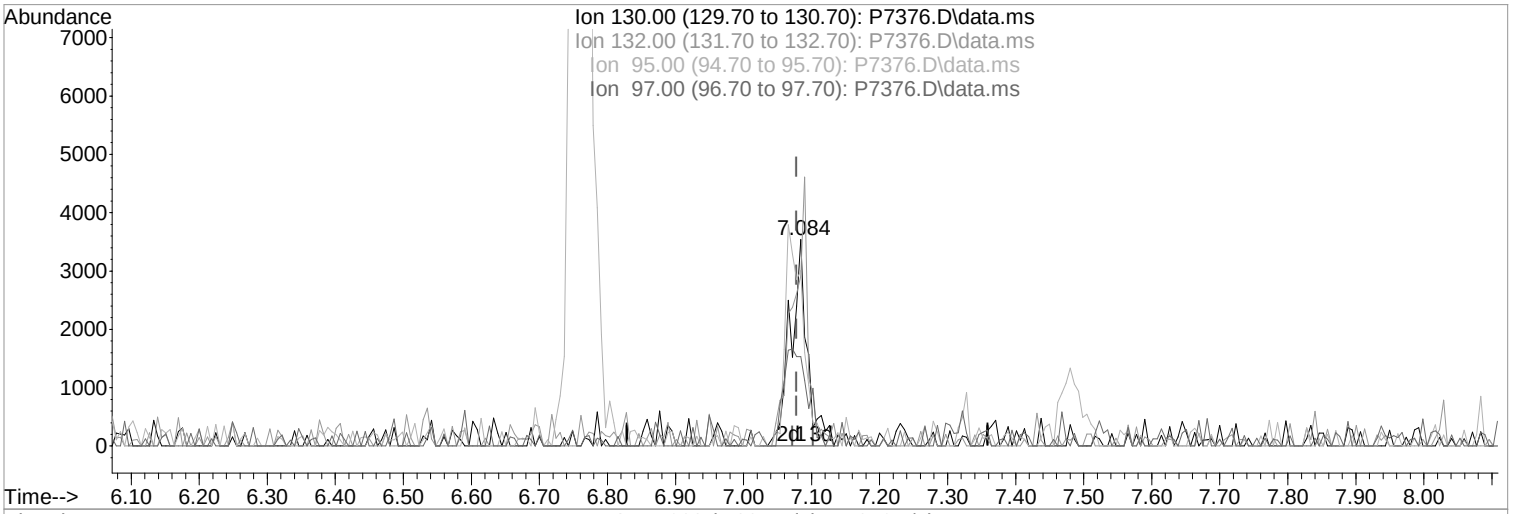
Before

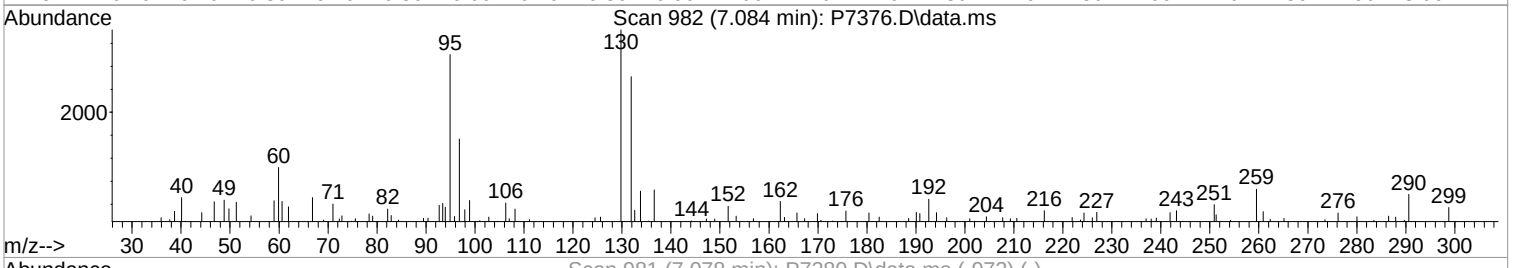
01/05/17

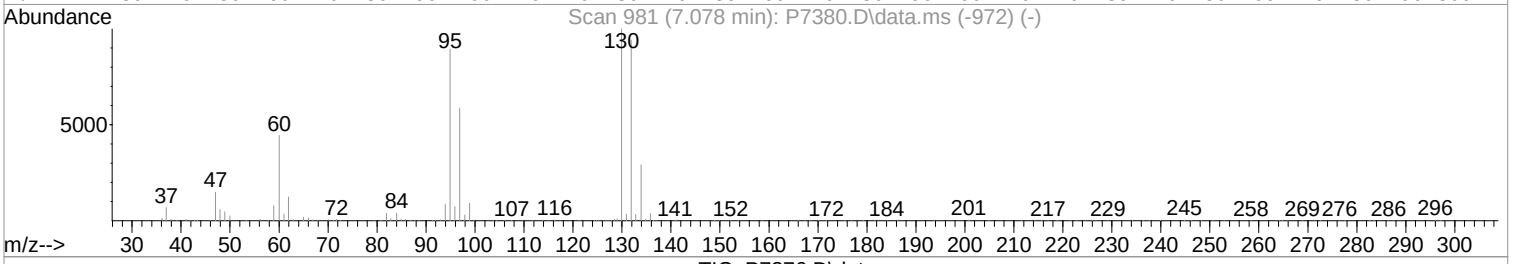
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(54) Trichloroethene (P)

7.084min (+0.006) 1.00 ppb m

response 6245

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	76.31
95.00	89.40	87.49
97.00	58.80	44.64

Manual Integration:

After

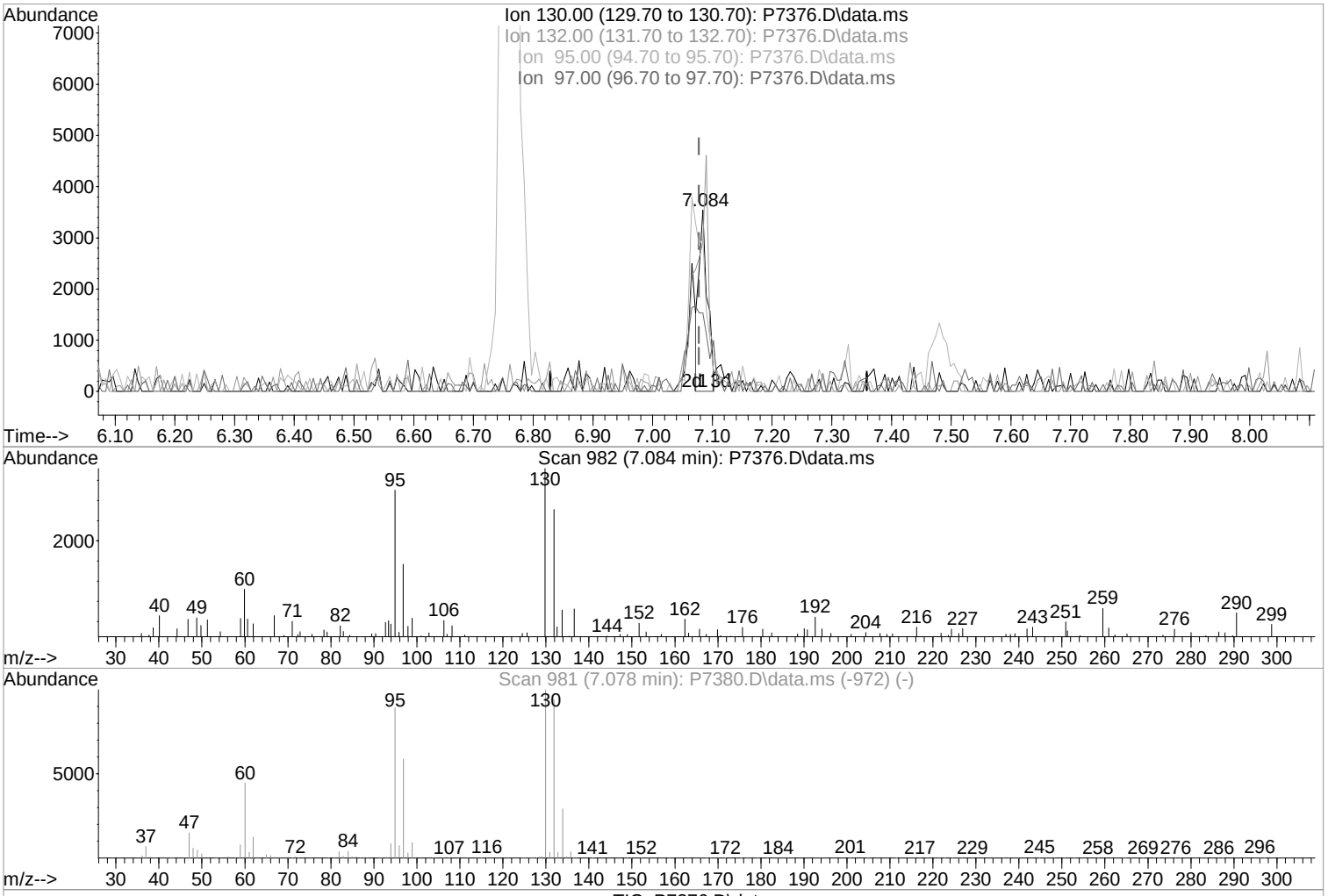
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(54) Trichloroethene (P)

7.084min (+0.006) 0.57 ppb

response 3544

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	82.32
95.00	89.40	84.92
97.00	58.80	43.33

Manual Integration:

Before

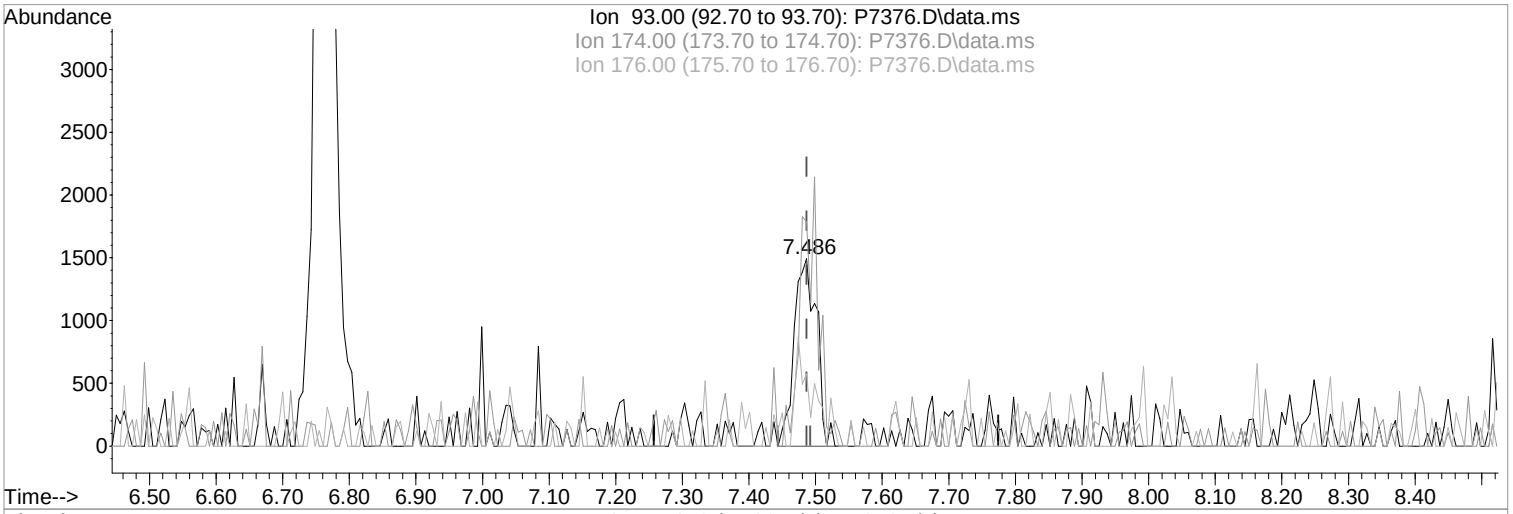
01/05/17

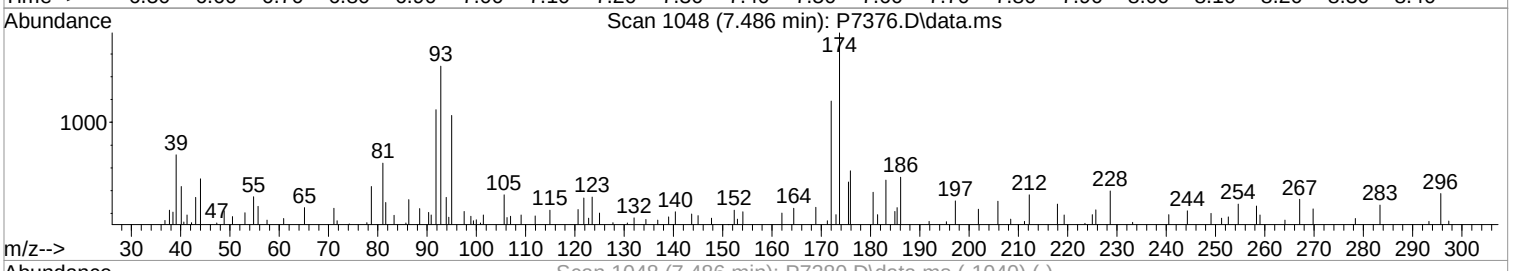
1st 01/05/17
2nd 01/05/17

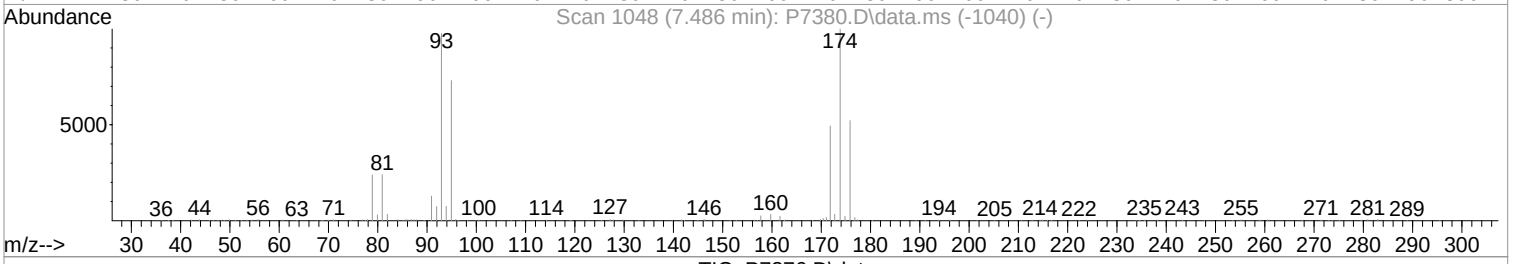
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(57) Dibromomethane

7.486min (0.000) 1.13 ppb m

response 3487

Ion	Exp%	Act%
93.00	100	100
174.00	102.80	119.61
176.00	53.50	38.42
0.00	0.00	0.00

Manual Integration:

After

Split Peak

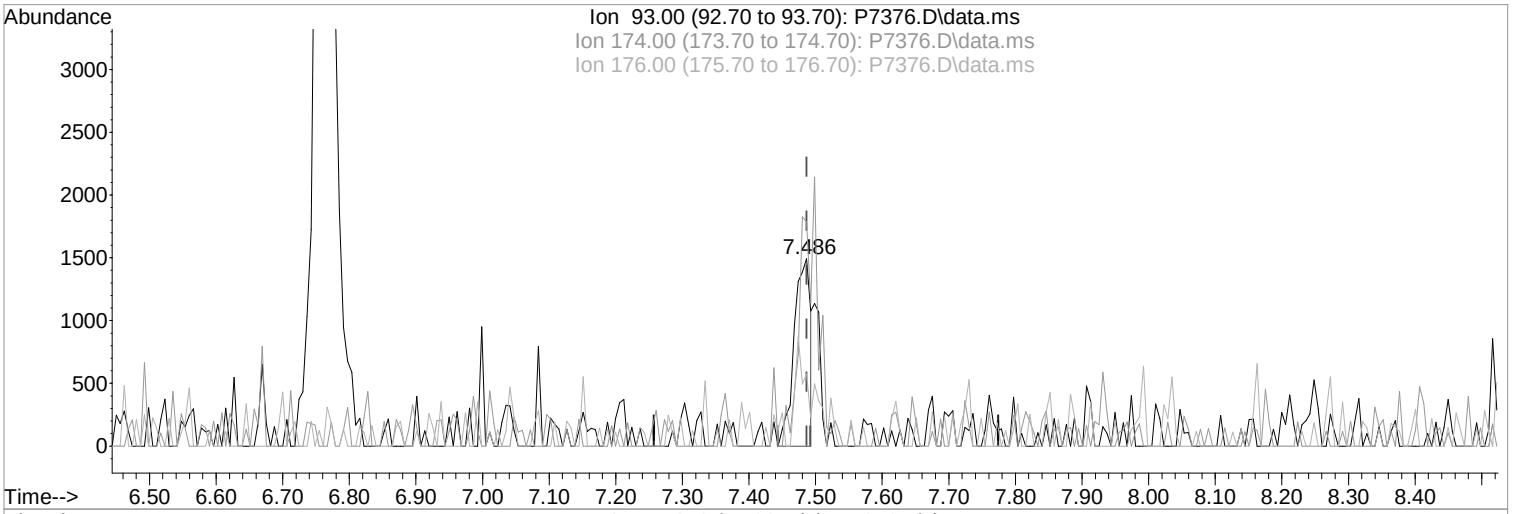
01/05/17

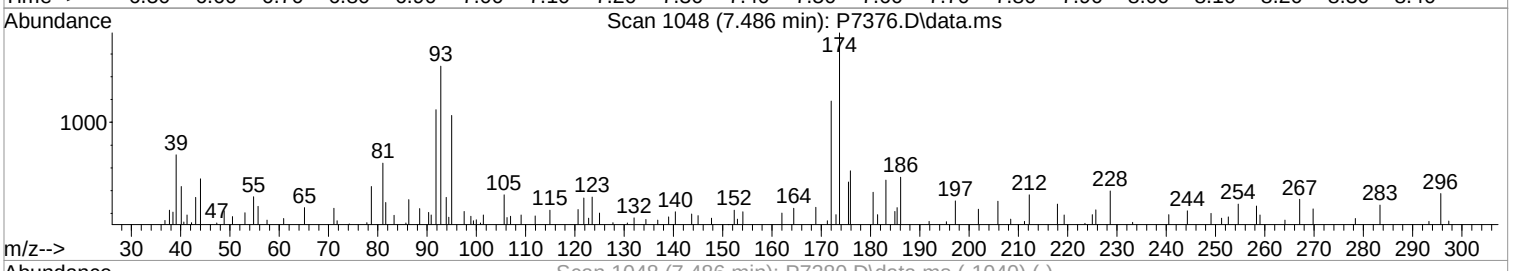
1st 01/05/17
2nd 01/05/17

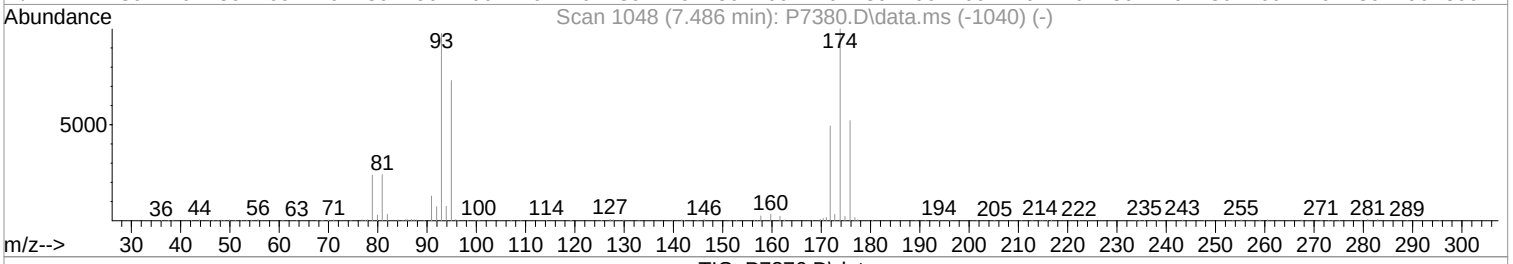
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(57) Dibromomethane

7.486min (0.000) 0.82 ppb

response 2535

Ion	Exp%	Act%
93.00	100	100
174.00	102.80	119.61
176.00	53.50	38.42
0.00	0.00	0.00

Manual Integration:

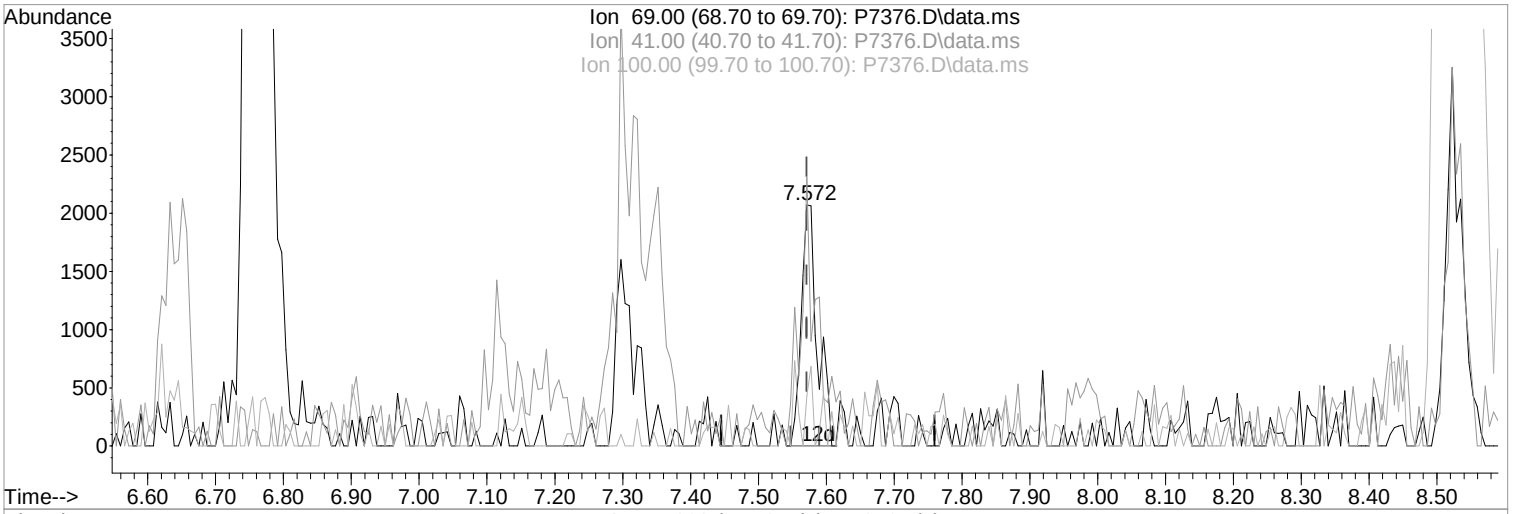
Before

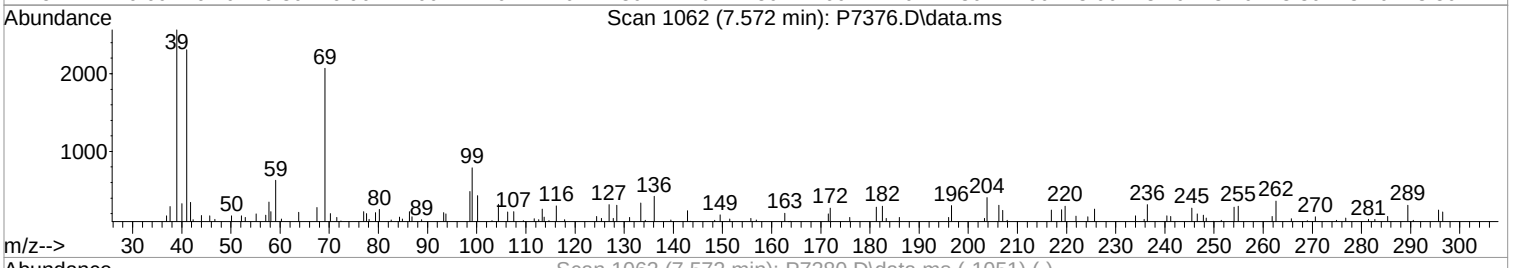
01/05/17

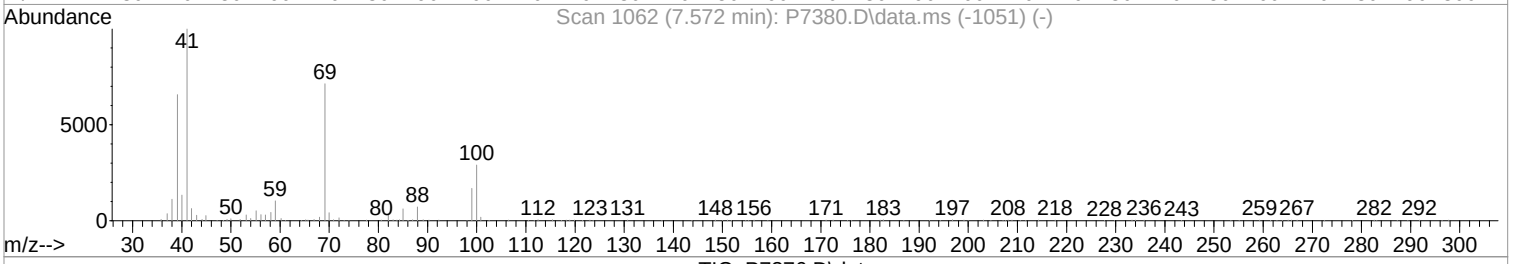
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(59) Methyl Methacrylate

7.572min (0.000) 1.18 ppb m

response 3440

Ion	Exp%	Act%
69.00	100	100
41.00	141.20	111.59#
100.00	40.80	20.92
0.00	0.00	0.00

Manual Integration:

After

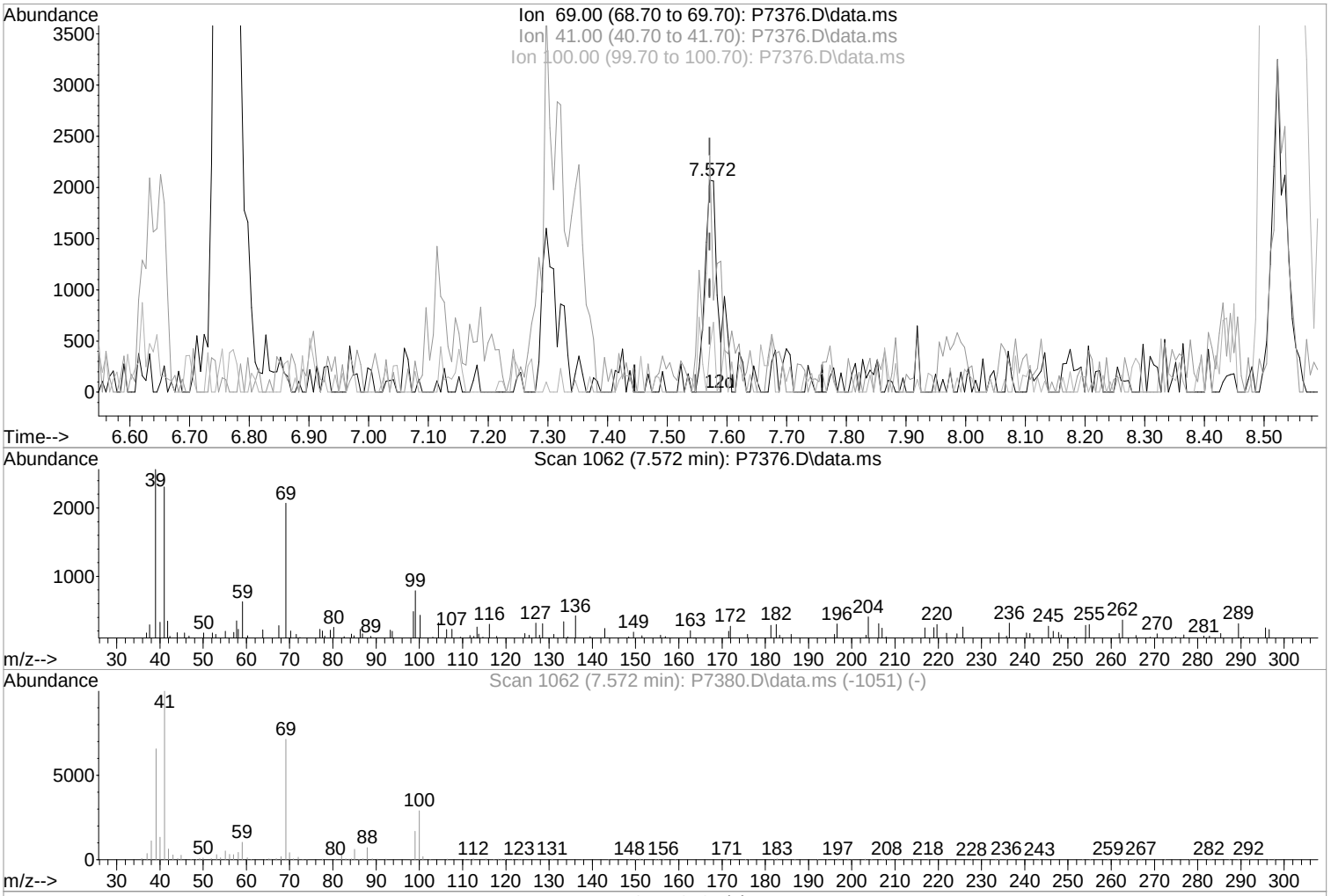
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(59) Methyl Methacrylate

7.572min (0.000) 0.99 ppb

response 2901

Ion	Exp%	Act%
69.00	100	100
41.00	141.20	111.59#
100.00	40.80	20.92
0.00	0.00	0.00

Manual Integration:

Before

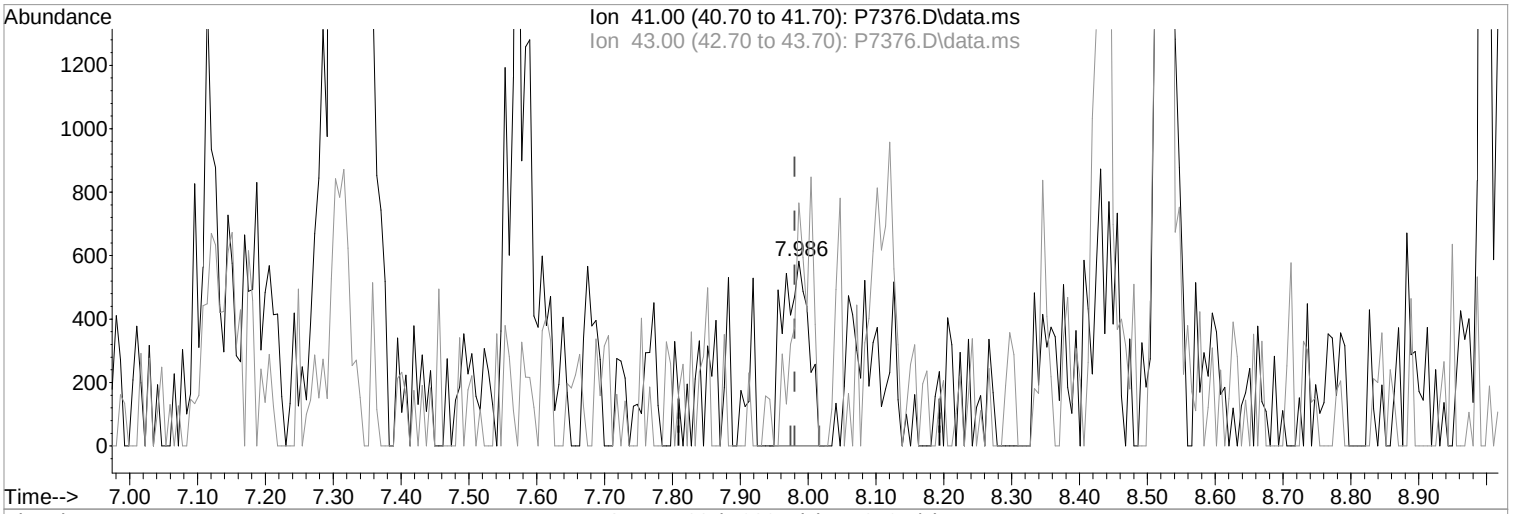
01/05/17

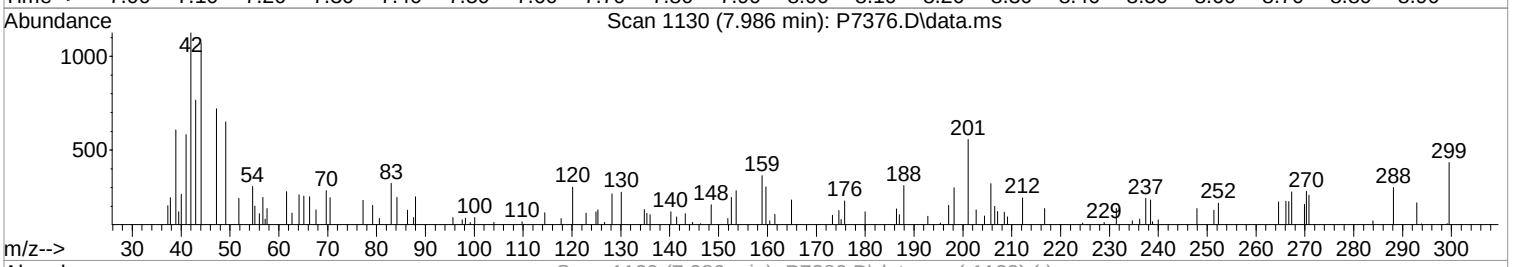
1st 01/05/17
2nd 01/05/17

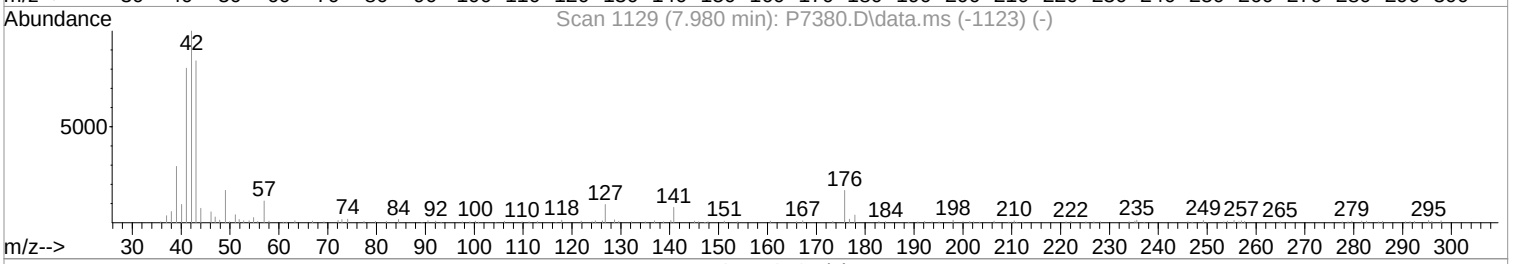
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(61) 2-Nitropropane

7.986min (+0.006) 2.68 ppb m

response 1562

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	131.62#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

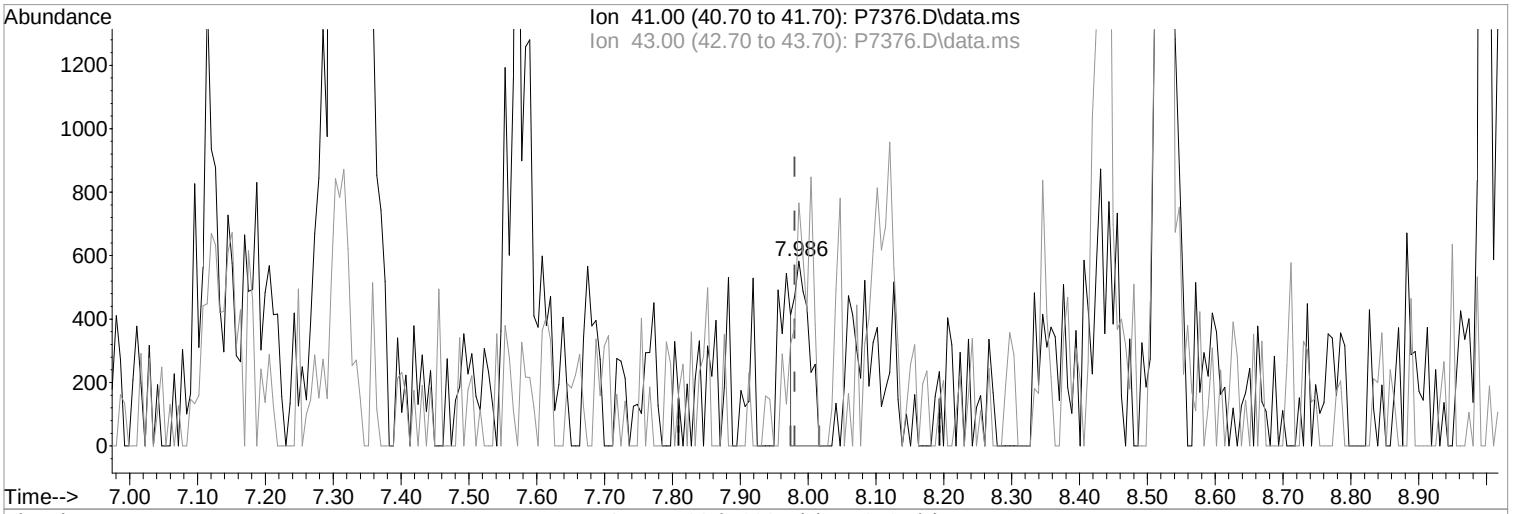
Split Peak

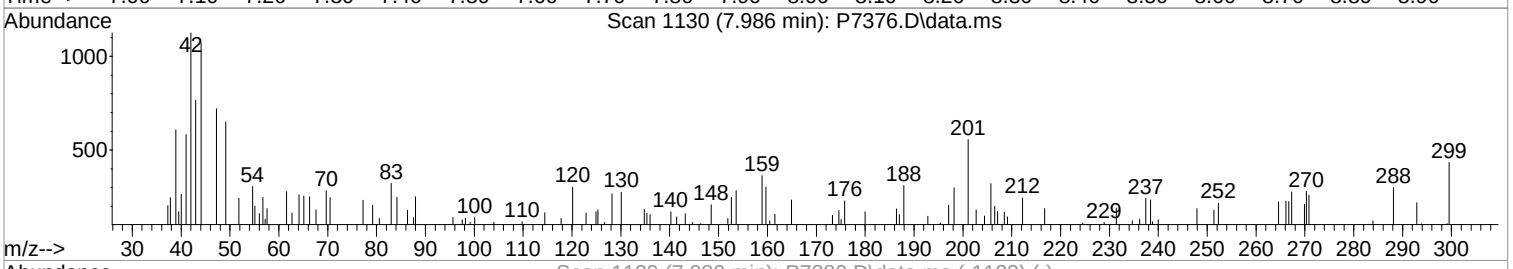
01/05/17

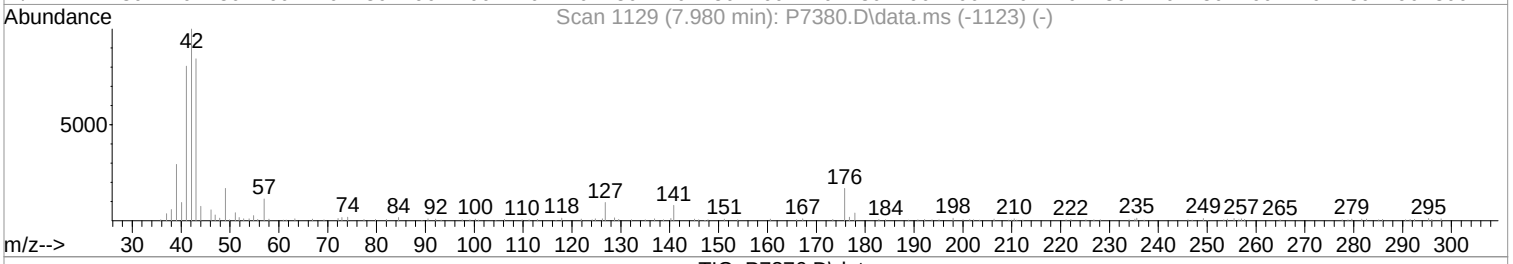
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(61) 2-Nitropropane

7.986min (+0.006) 1.55 ppb

response 903

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	131.62#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

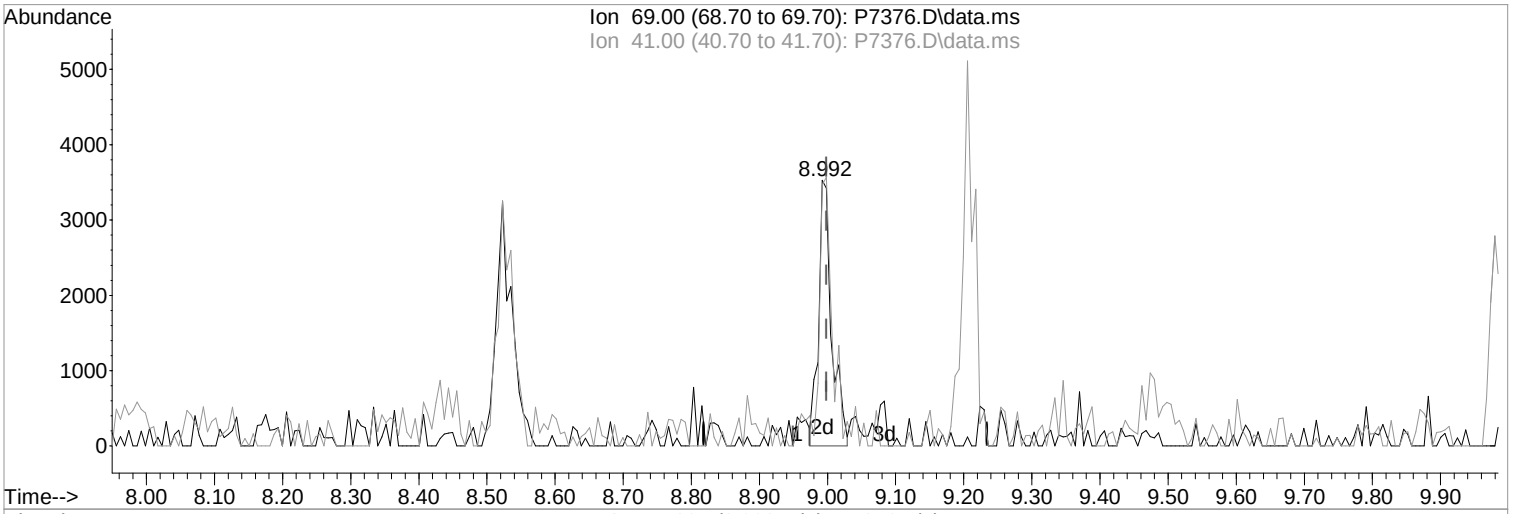
Before

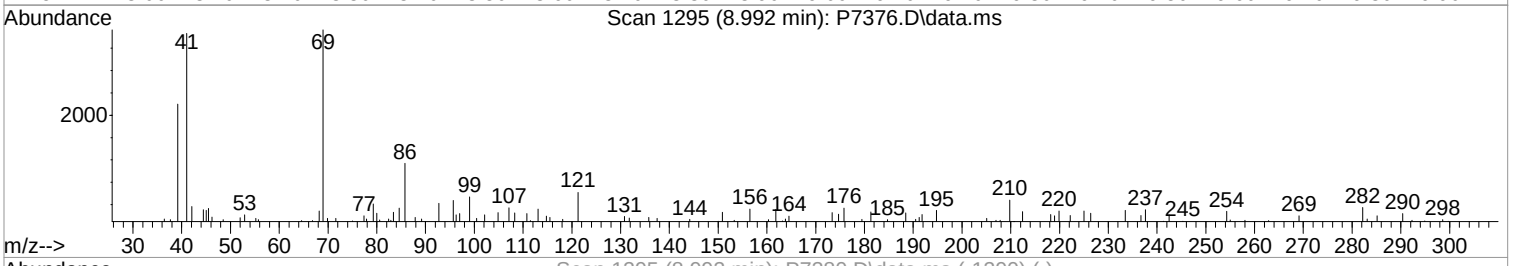
01/05/17

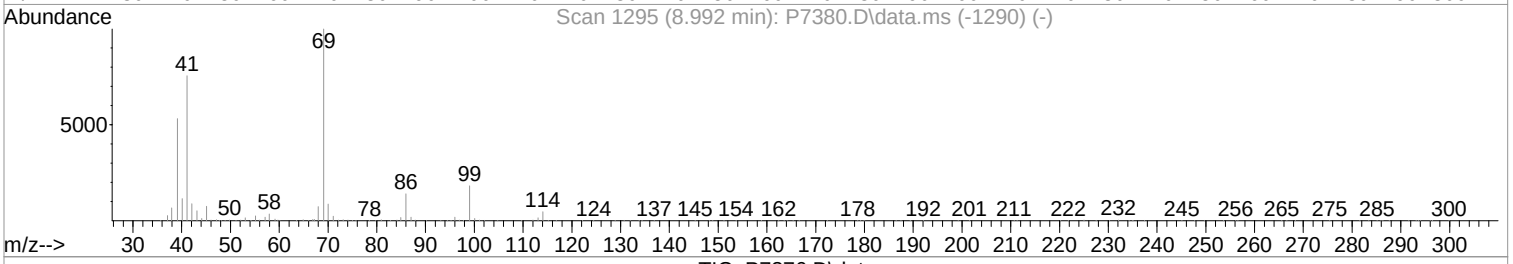
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(68) Ethyl Methacrylate

8.992min (-0.006) 0.85 ppb m

response 4729

Ion	Exp%	Act%
69.00	100	100
41.00	75.90	98.13#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

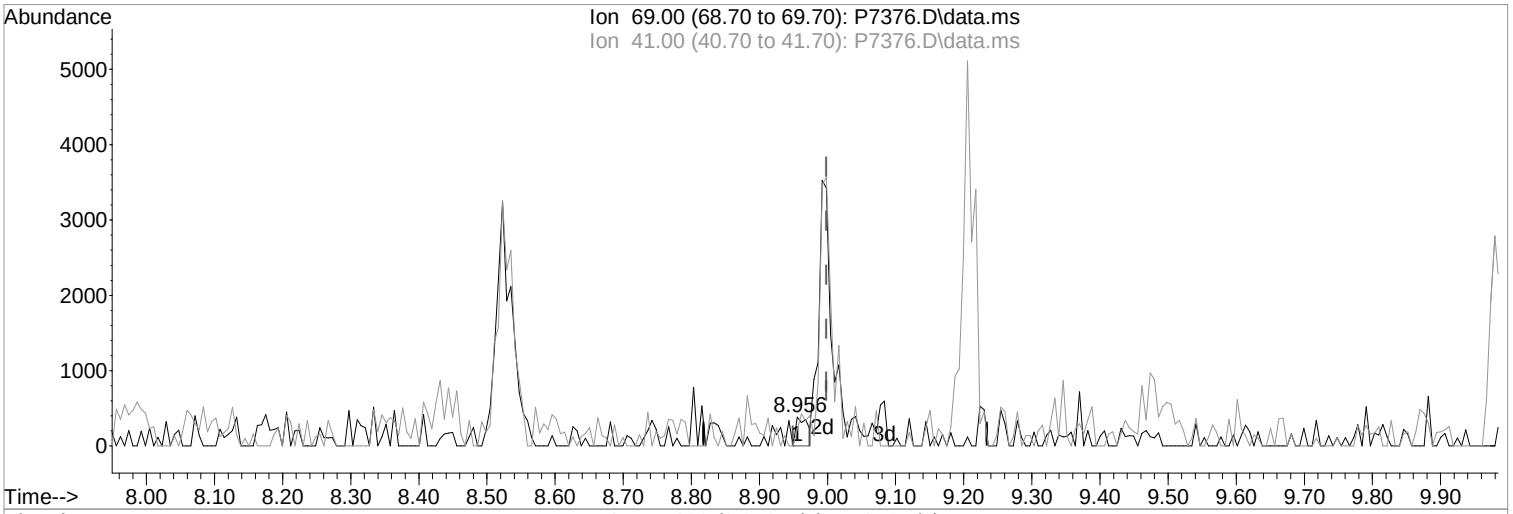
Peak not found.

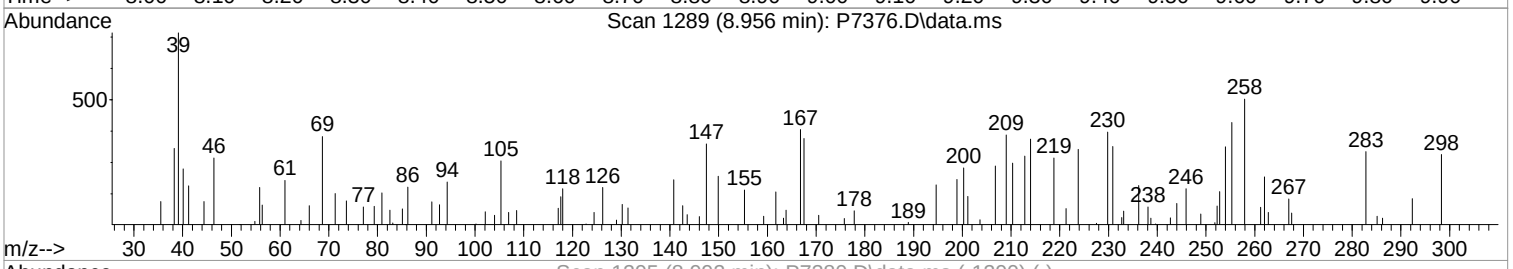
01/05/17

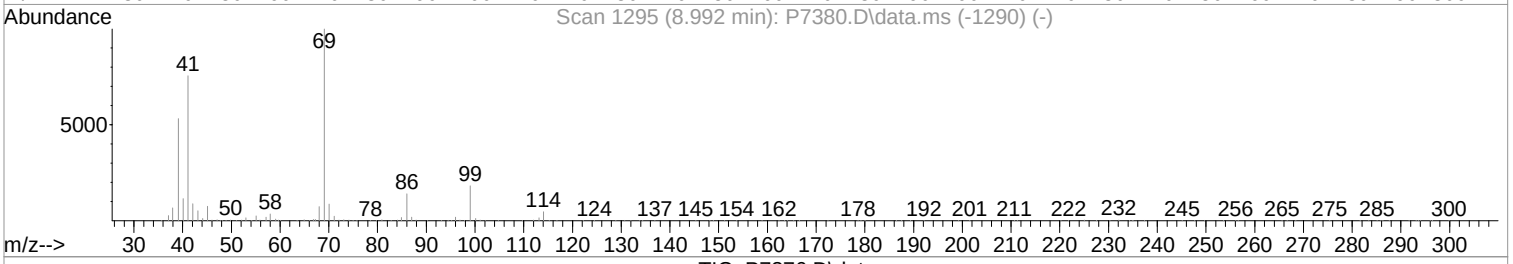
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(68) Ethyl Methacrylate

8.956min (-0.043) 0.08 ppb

response 466

Ion	Exp%	Act%
69.00	100	100
41.00	75.90	58.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

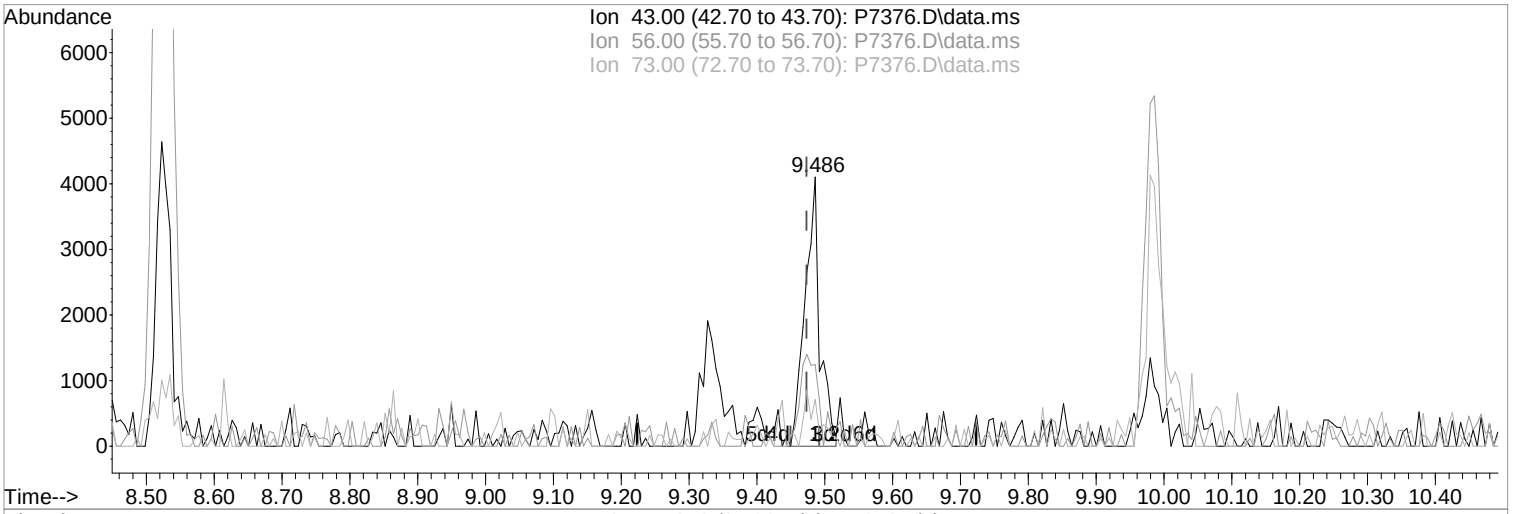
01/05/17

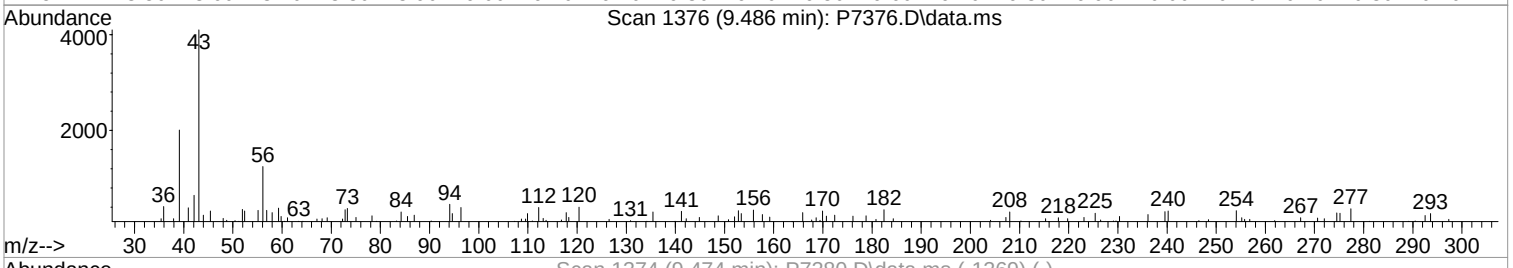
1st 01/05/17
2nd 01/05/17

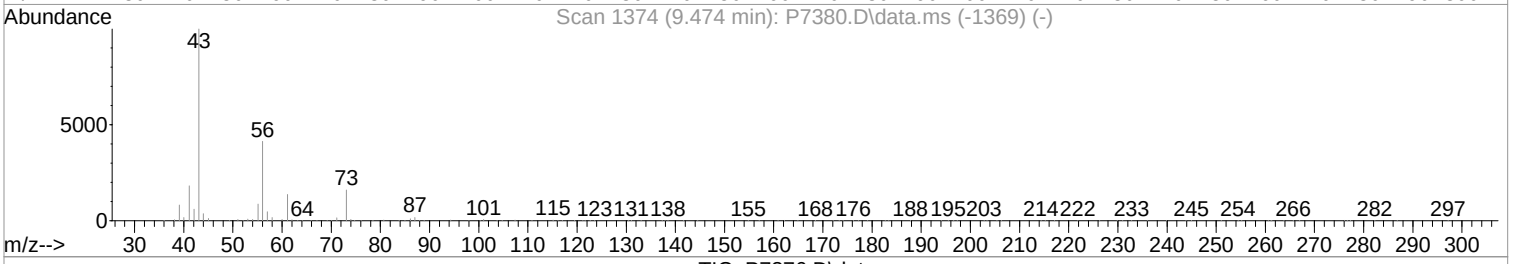
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(76) N-Butyl Acetate

9.486min (+0.012) 0.96 ppb m

response 6240

Ion	Exp%	Act%
43.00	100	100
56.00	41.30	30.30
73.00	15.90	9.00
0.00	0.00	0.00

Manual Integration:

After

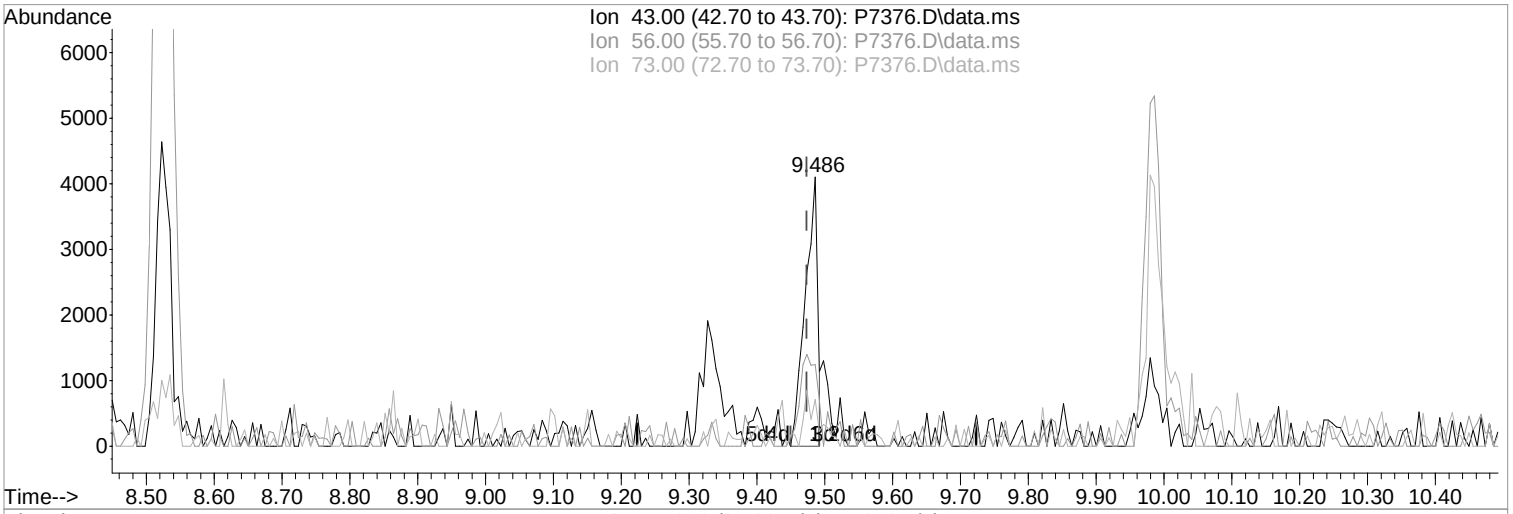
Split Peak

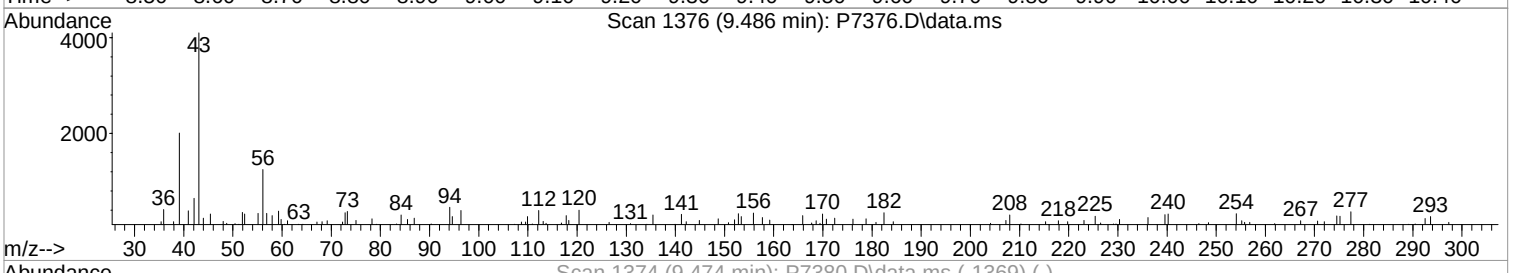
01/05/17

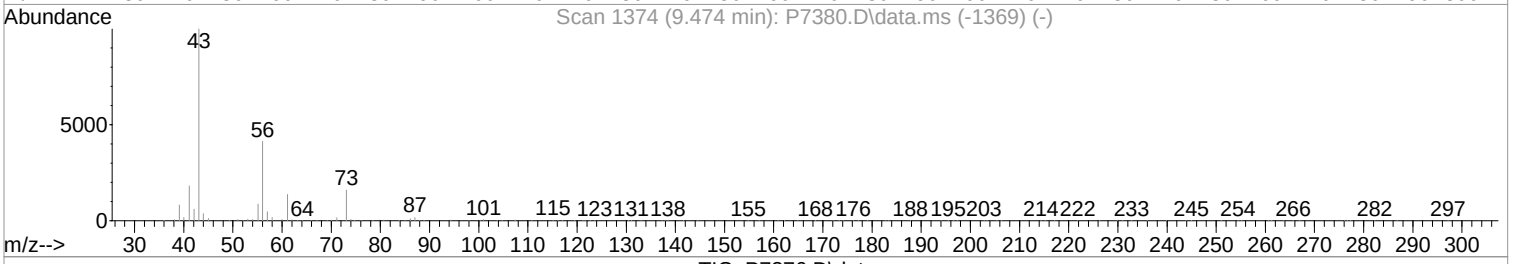
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(76) N-Butyl Acetate

9.486min (+0.012) 0.81 ppb

response 5243

Ion	Exp%	Act%
43.00	100	100
56.00	41.30	30.30
73.00	15.90	17.31
0.00	0.00	0.00

Manual Integration:

Before

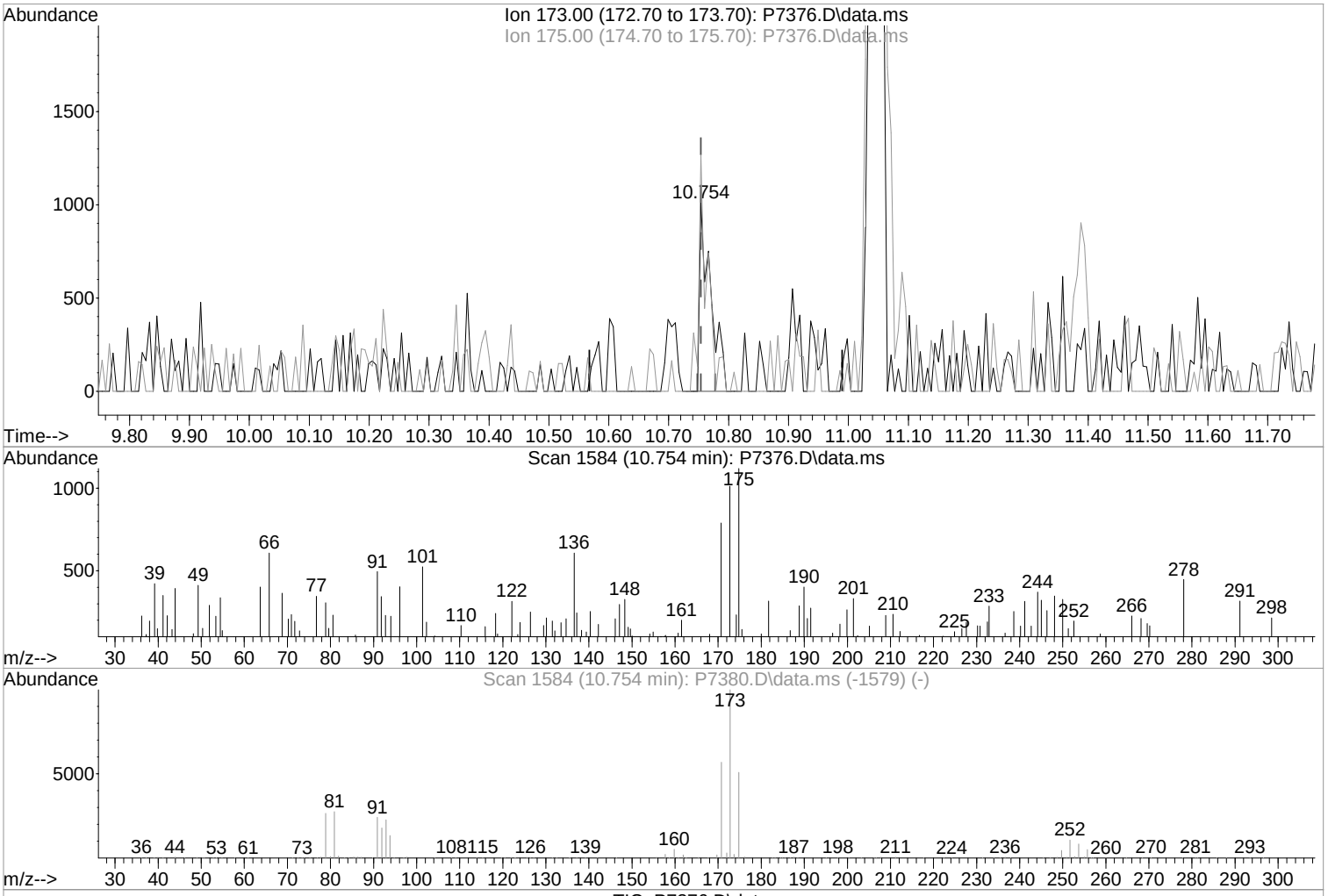
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
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Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7376.D\data.ms

(87) Bromoform (P)

10.754min (+0.000) 0.58 ppb m

response 1318

Ion	Exp%	Act%
173.00	100	100
175.00	49.80	110.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

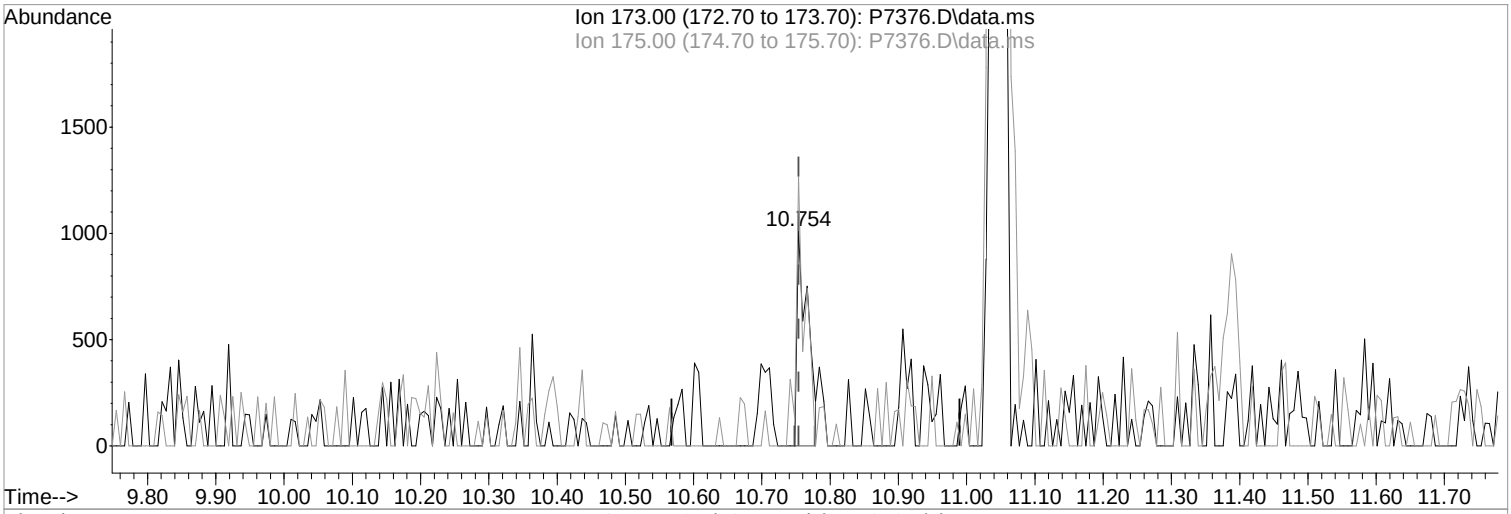
Split Peak

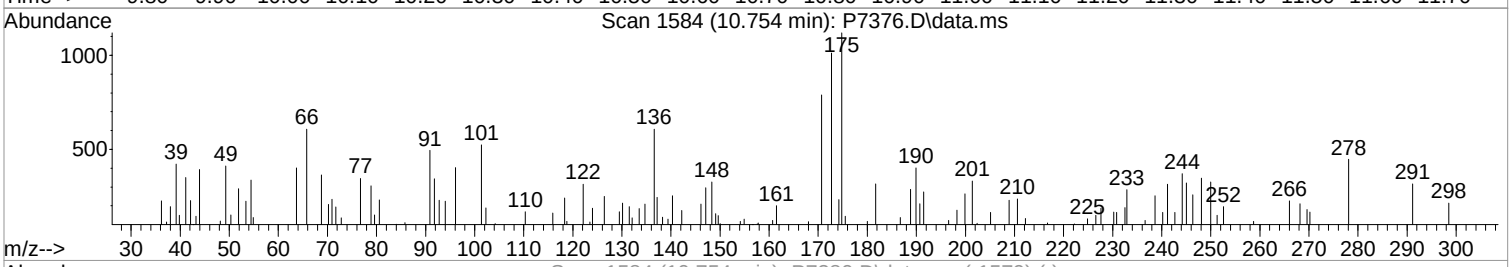
01/05/17

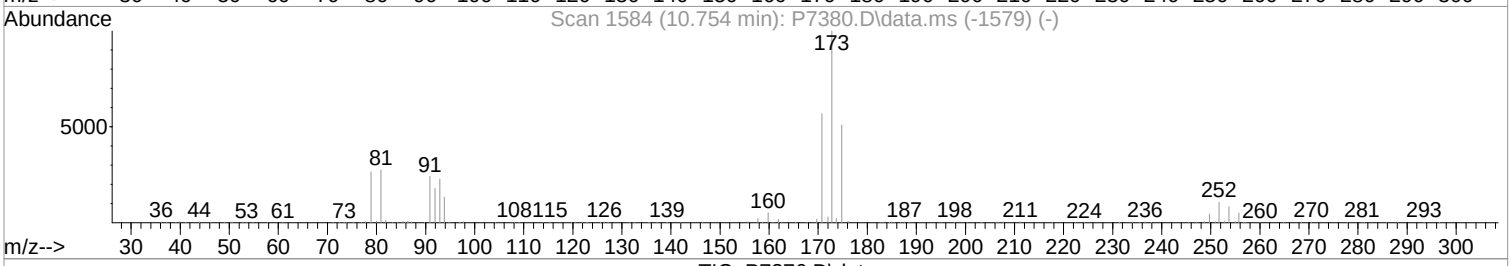
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(87) Bromoform (P)

10.754min (+0.000) 0.49 ppb

response 1105

Ion	Exp%	Act%
173.00	100	100
175.00	49.80	125.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

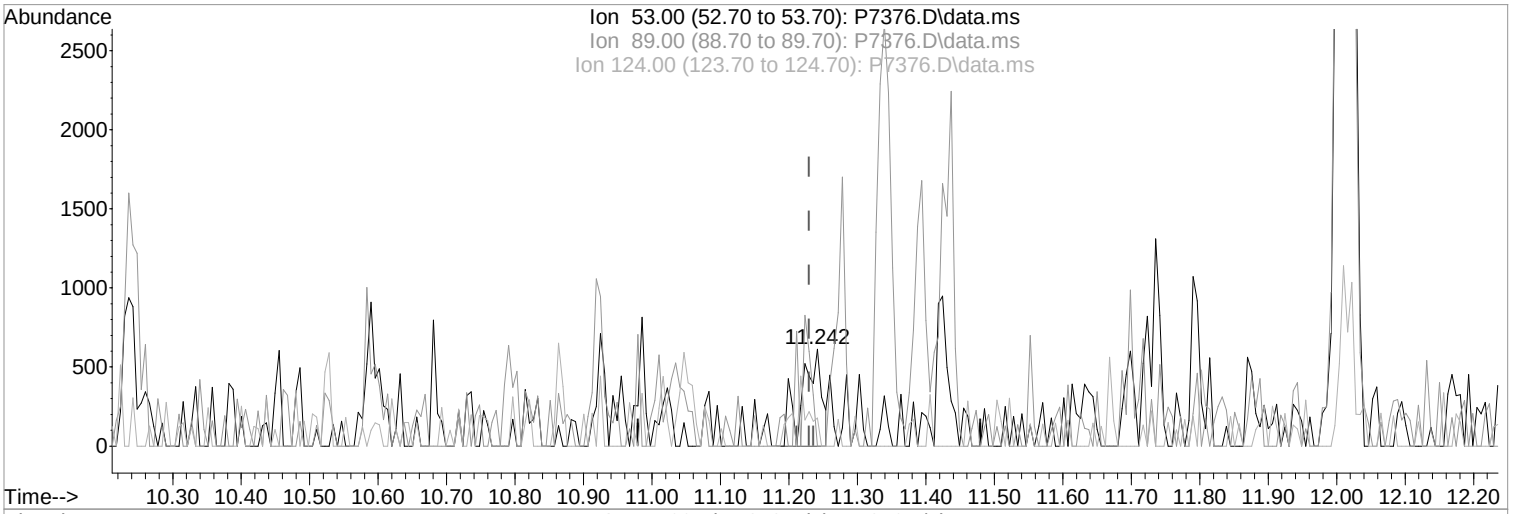
Before

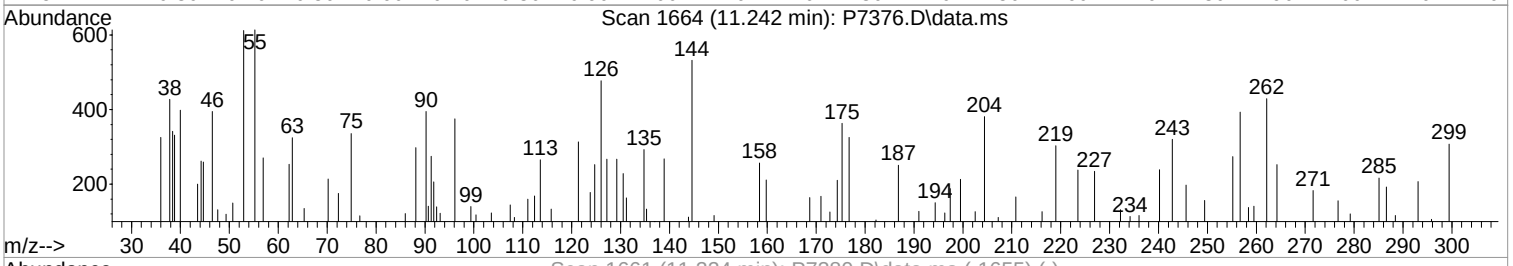
01/05/17

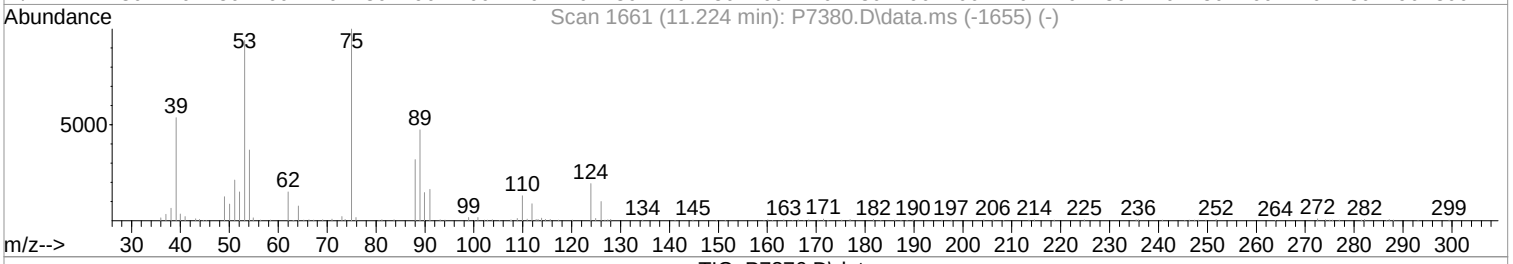
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
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Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(91) trans-1,4-Dichloro-2-Butene

11.242min (+0.012) 0.91 ppb m

response 1260

Ion	Exp%	Act%
53.00	100	100
89.00	50.40	0.00#
124.00	20.60	41.18#
0.00	0.00	0.00

Manual Integration:

After

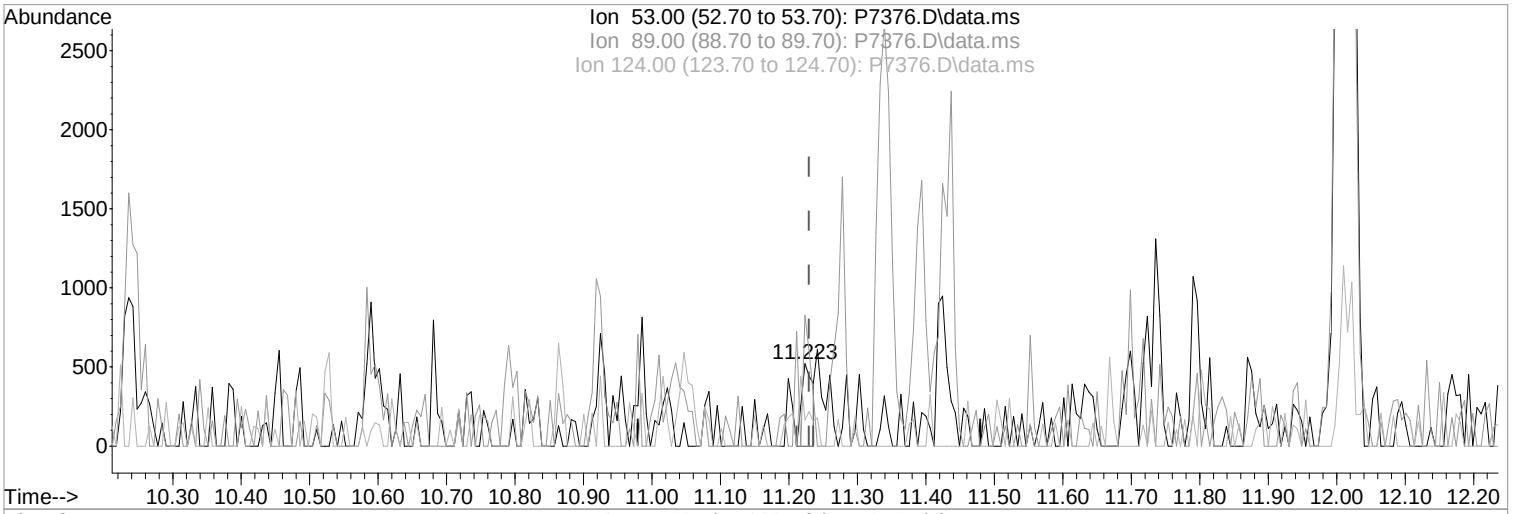
Poor integration.

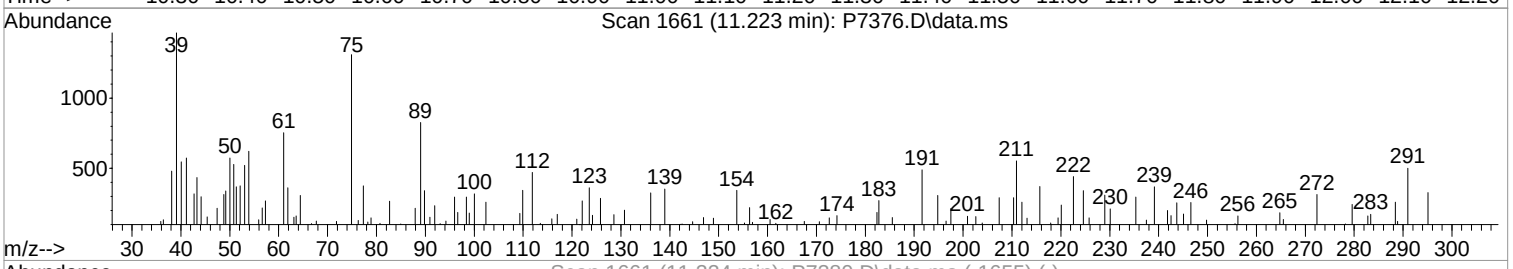
01/05/17

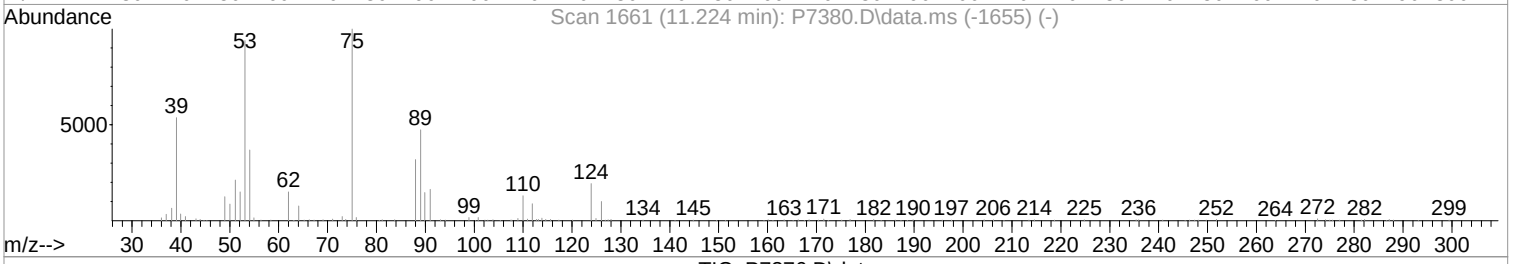
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
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Acq On : 4 Jan 2017 1:53 pm
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ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 08:58:02 2017
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QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7376.D\data.ms

(91) trans-1,4-Dichloro-2-Butene

11.223min (-0.006) 0.43 ppb

response 590

Ion	Exp%	Act%
53.00	100	100
89.00	50.40	158.73#
124.00	20.60	31.48
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 09:18:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	764731	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1215266	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1179180	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	638396	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	353916	53.97	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.94%				
48) surr1,1,2-dichloroetha...	6.090	65	388369	53.34	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.68%				
65) SURR3,Toluene-d8	8.523	98	1523813	56.20	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.40%				
70) SURR2,BFB	11.047	95	572302	54.47	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	8132	0.87	ppb		81
3) Chloromethane	1.341	50	8543	1.02	ppb		83
4) Vinyl Chloride	1.427	62	7204	0.98	ppb		97
5) Bromomethane	1.689	94	3177m	0.85	ppb		
6) Chloroethane	1.762	64	3803	0.97	ppb		84
7) Freon 21	1.926	67	8970	0.97	ppb		93
8) Trichlorofluoromethane	1.969	101	7443	0.90	ppb		95
9) Diethyl Ether	2.231	59	3677	1.05	ppb	#	74
10) Freon 123a	2.231	67	6640	1.14	ppb		84
11) Freon 123	2.286	83	7564	1.13	ppb		90
12) Acrolein	2.323	56	2993	5.17	ppb		85
13) 1,1-Diclethene	2.420	96	5073	0.94	ppb	#	69
14) Freon 113	2.432	101	6244	1.07	ppb		97
16) 2-Propanol	2.640	45	4360	24.46	ppb		89
17) Iodomethane	2.573	142	8355	1.05	ppb		85
18) Carbon Disulfide	2.627	76	17090	1.03	ppb		95
20) Allyl Chloride	2.786	76	2664m	0.83	ppb		
21) Methyl Acetate	2.829	43	3186	1.19	ppb		92
22) Methylene Chloride	2.926	84	6424m	1.08	ppb		
23) TBA	3.097	59	5474m	17.79	ppb		
24) Acrylonitrile	3.201	53	6517m	4.89	ppb		
25) Methyl-t-Butyl Ether	3.255	73	15287	1.07	ppb		80
26) trans-1,2-Dichloroethene	3.243	96	6770	1.08	ppb	#	73
28) 1,1-Diclethane	3.774	63	11785m	1.12	ppb		
29) Vinyl Acetate	3.896	86	1218m	1.19	ppb		
30) DIPE	3.938	45	17670	0.90	ppb		96
31) 2-Chloro-1,3-Butadiene	3.914	53	7920	0.89	ppb		86
32) ETBE	4.523	59	15378	0.93	ppb		92
33) 2,2-Dichloropropane	4.682	77	8369m	1.01	ppb		
34) cis-1,2-Dichloroethene	4.706	96	6828m	1.03	ppb		
36) Propionitrile	4.871	54	2571m	5.07	ppb		
37) Bromochloromethane	5.139	130	4002m	1.10	ppb		
38) Methacrylonitrile	5.157	67	2018m	1.24	ppb		
40) Chloroform	5.310	83	11724	1.15	ppb		98
41) 1,1,1-Trichloroethane	5.578	97	9654	1.08	ppb		83
42) TAME	6.401	73	13984	0.96	ppb		90
44) Cyclohexane	5.657	41	6481	1.01	ppb		88
46) Carbontetrachloride	5.852	121	2625m	1.16	ppb		
47) 1,1-Dichloropropene	5.859	75	7733m	0.96	ppb		

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 09:18:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	Benzene	6.163	78	22254m	1.03	ppb		
50)	1,2-Dichloroethane	6.200	62	7309	0.97	ppb		77
51)	Iso-Butyl Alcohol	6.194	43	2712	20.71	ppb	#	45
52)	n-Heptane	6.639	43	7989	1.10	ppb		90
53)	1-Butanol	7.127	56	3768m	49.69	ppb		
54)	Trichloroethene	7.084	130	6245m	1.00	ppb		
55)	Methylcyclohexane	7.309	55	6160	0.83	ppb	#	55
56)	1,2-Diclpropane	7.346	63	6251	1.03	ppb		85
57)	Dibromomethane	7.486	93	3487m	1.13	ppb		
59)	Methyl Methacrylate	7.572	69	3440m	1.18	ppb		
60)	Bromodichloromethane	7.700	83	7040	0.94	ppb		75
61)	2-Nitropropane	7.986	41	1562m	2.68	ppb		
62)	2-Chloroethylvinyl Ether	8.102	63	3075	1.05	ppb		80
63)	cis-1,3-Dichloropropene	8.242	75	7991	0.91	ppb		75
64)	4-Methyl-2-pentanone	8.431	43	4173	1.09	ppb		80
66)	Toluene	8.602	91	25332	1.01	ppb		91
67)	trans-1,3-Dichloropropene	8.864	75	6400	0.89	ppb		89
68)	Ethyl Methacrylate	8.992	69	4729m	0.85	ppb		
69)	1,1,2-Trichloroethane	9.047	97	4905	1.15	ppb		81
72)	Tetrachloroethene	9.175	164	4811	0.94	ppb	#	75
73)	2-Hexanone	9.327	43	3037	1.14	ppb		81
74)	1,3-Dichloropropane	9.205	76	7878	0.99	ppb	#	70
75)	Dibromochloromethane	9.425	129	4013	0.88	ppb	#	24
76)	N-Butyl Acetate	9.486	43	6240m	0.96	ppb		
77)	1,2-Dibromoethane	9.522	107	4417	1.06	ppb		88
78)	Chlorobenzene	10.010	112	16046	0.97	ppb		82
79)	3-CBTF	10.028	180	10044	1.07	ppb	#	81
80)	4-CBTF	10.083	180	7763	0.90	ppb		81
81)	1,1,1,2-Tetrachloroethane	10.096	131	5194	0.94	ppb	#	84
82)	Ethylbenzene	10.126	106	9141	0.99	ppb	#	78
83)	(m+p)Xylene	10.242	106	20126	1.85	ppb	#	86
84)	o-Xylene	10.595	106	10442	0.97	ppb		92
85)	Styrene	10.608	104	16355	0.90	ppb		100
87)	Bromoform	10.754	173	1318m	0.58	ppb		
88)	2-CBTF	10.833	180	8237	0.94	ppb	#	73
89)	Isopropylbenzene	10.925	105	25912	0.99	ppb		90
90)	Cyclohexanone	10.986	55	9588	20.89	ppb	#	69
91)	trans-1,4-Dichloro-2-B...	11.242	53	1260m	0.91	ppb		
92)	1,1,2,2-Tetrachloroethane	11.181	83	4860	0.97	ppb	#	77
93)	Bromobenzene	11.175	156	6955	0.98	ppb	#	62
94)	1,2,3-Trichloropropane	11.211	110	1590	0.99	ppb	#	54
95)	n-Propylbenzene	11.272	91	28662	0.95	ppb		96
96)	2-Chlorotoluene	11.339	91	18884	1.04	ppb		79
97)	3-Chlorotoluene	11.388	91	19948	1.00	ppb	#	83
98)	4-Chlorotoluene	11.431	91	21242	1.00	ppb		93
99)	1,3,5-Trimethylbenzene	11.425	105	22896	1.01	ppb		92
100)	tert-Butylbenzene	11.699	119	17465	0.94	ppb		92
101)	1,2,4-Trimethylbenzene	11.735	105	23889	1.03	ppb		88
102)	3,4-DCBTF	11.790	214	6592	0.97	ppb	#	83
103)	sec-Butylbenzene	11.882	105	27404	1.01	ppb		94
104)	p-Isopropyltoluene	11.998	119	21450	0.94	ppb		90
105)	1,3-Dclbenz	11.961	146	12248	0.90	ppb		83
106)	1,4-Dclbenz	12.034	146	15581	1.10	ppb		86
107)	2,4-DCBTF	12.083	214	6497	1.04	ppb	#	86
108)	2,5-DCBTF	12.120	214	6768	1.02	ppb	#	81
109)	n-Butylbenzene	12.333	91	19003	0.91	ppb		84

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7376.D
Acq On : 4 Jan 2017 1:53 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 09:18:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) 1,2-Dclbenz	12.339	146	11461	0.91	ppb		80
111) 1,2-Dibromo-3-chloropr...	12.955	157	1362	1.40	ppb	#	43
112) Trielution Dichlorotol...	13.064	125	31544	2.90	ppb	#	83
113) 1,3,5 Trichlorobenzene	13.125	180	10033	1.04	ppb	#	80
114) Coelution Dichlorotoluene	13.400	125	22219	1.89	ppb		95
115) 1,2,4-Tcbenzene	13.607	180	8275	0.98	ppb	#	68
116) Hexachlorobt	13.741	225	4471	1.17	ppb	#	68
117) Naphthalen	13.796	128	13527	0.87	ppb		87
118) 1,2,3-Tclbenzene	13.991	180	6246	0.90	ppb		97
119) 2,4,5-Trichlorotolene	14.564	159	5323	0.99	ppb	#	61
120) 2,3,6-Trichlorotoluene	14.656	159	4285	0.96	ppb		94

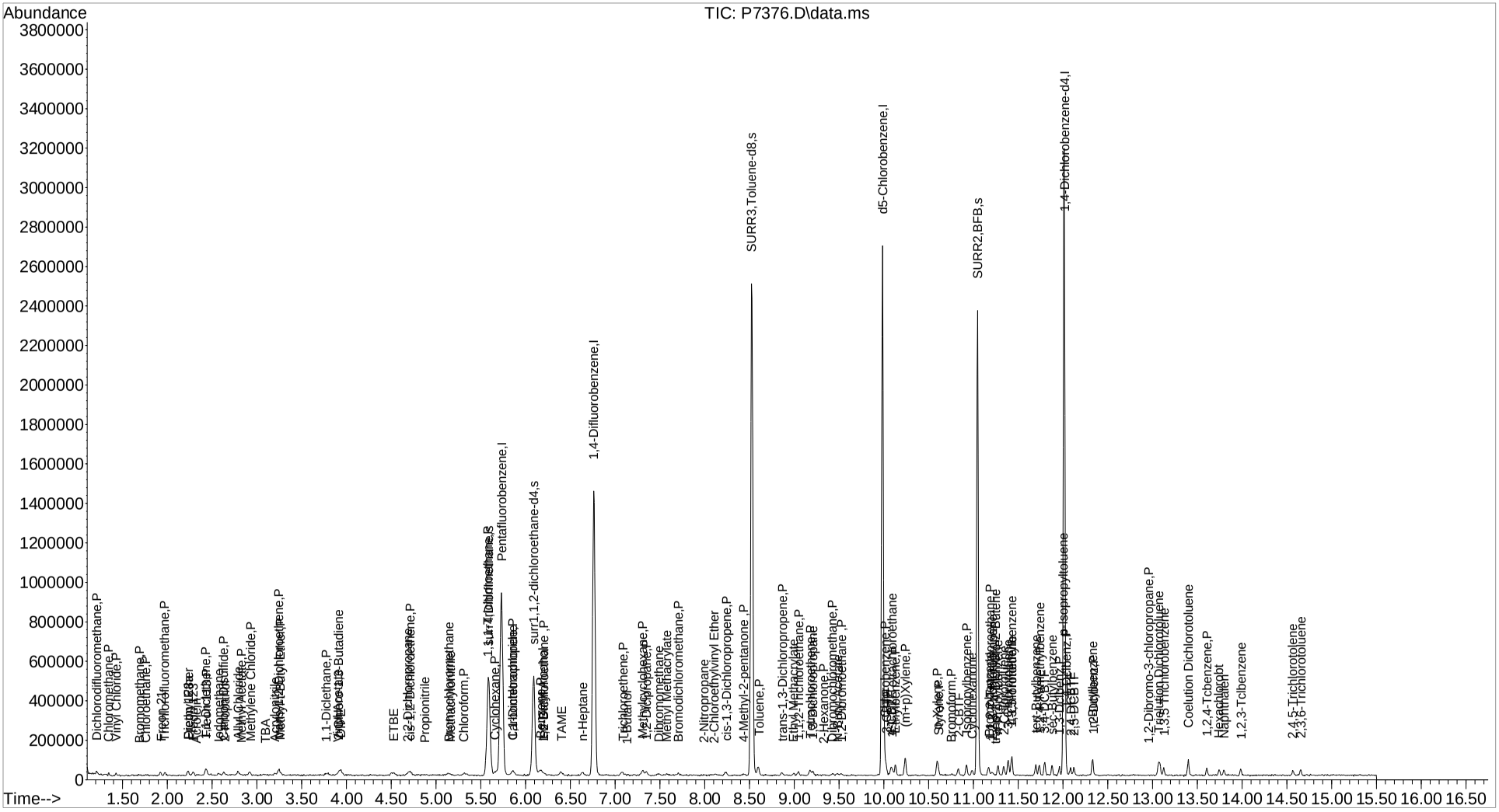
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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1st 01/05/17 2nd 01/05/17

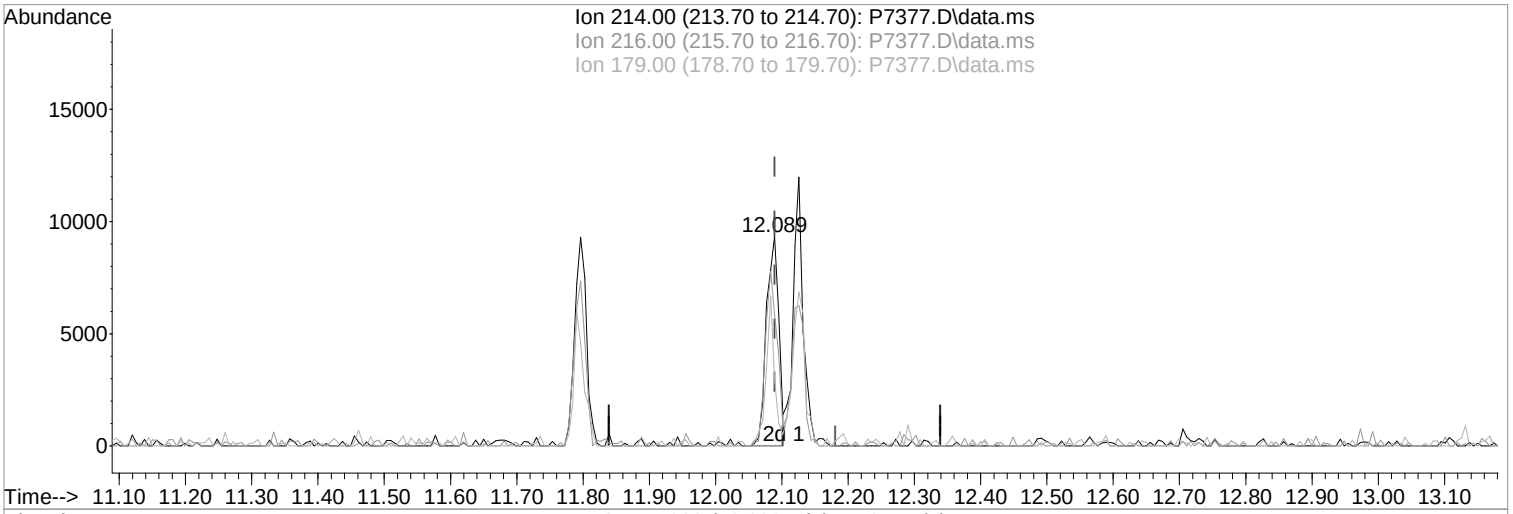
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QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

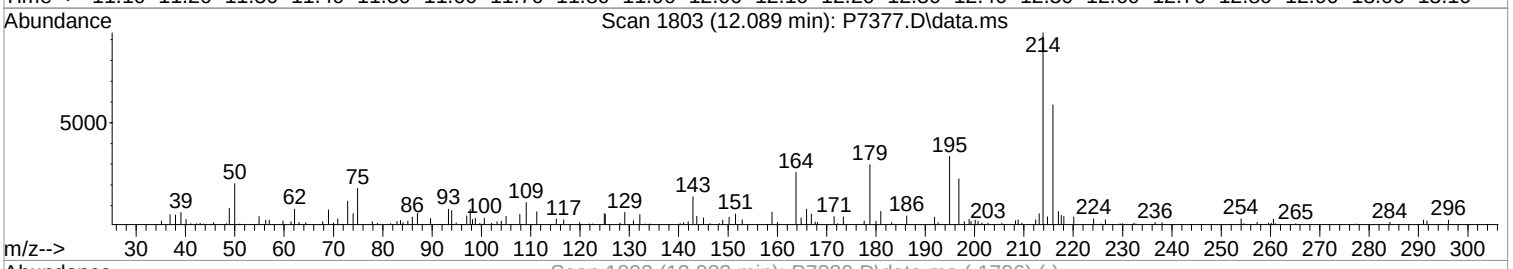


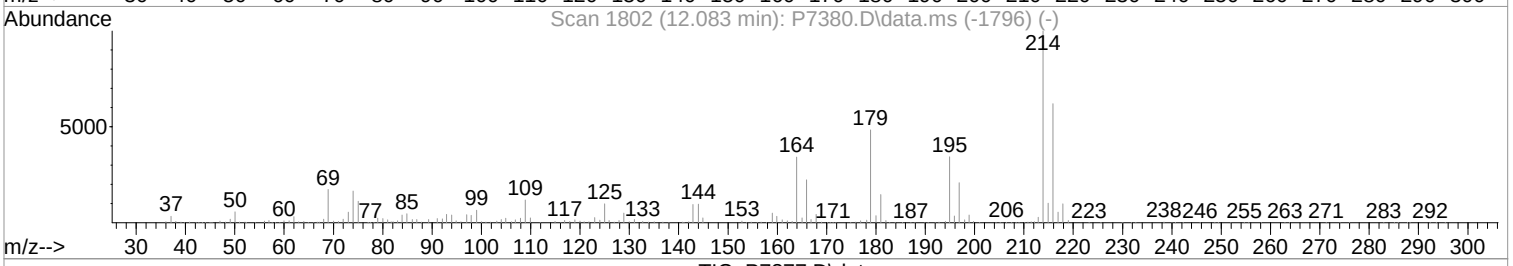
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(107) 2,4-DCBTF

12.089min (+0.000) 1.95 ppb m

response 12193

Ion	Exp%	Act%
214.00	100	100
216.00	62.00	62.84
179.00	48.30	31.87#
0.00	0.00	0.00

Manual Integration:

After

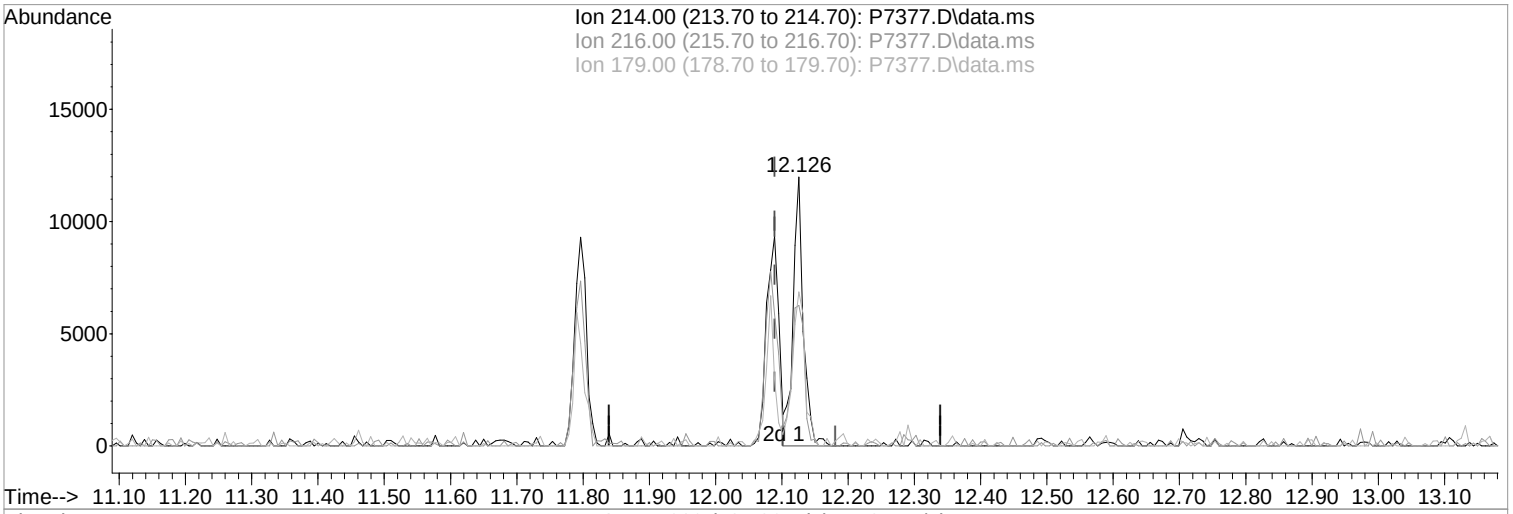
Wrong peak selected.

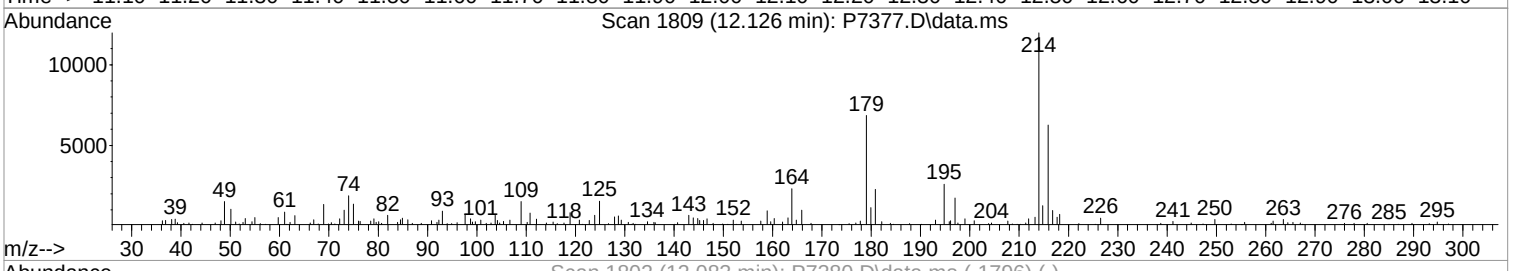
01/05/17

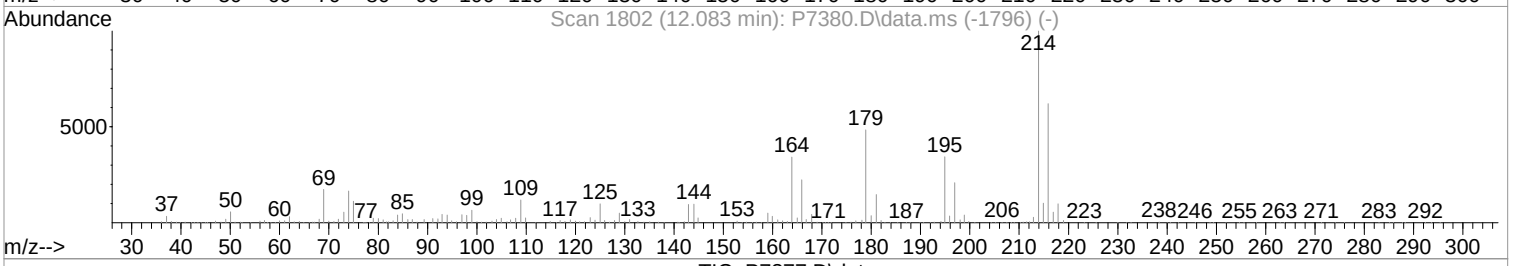
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(107) 2,4-DCBTF

12.126min (+0.037) 2.07 ppb

response 12989

Ion	Exp%	Act%
214.00	100	100
216.00	62.00	52.34
179.00	48.30	57.28
0.00	0.00	0.00

Manual Integration:

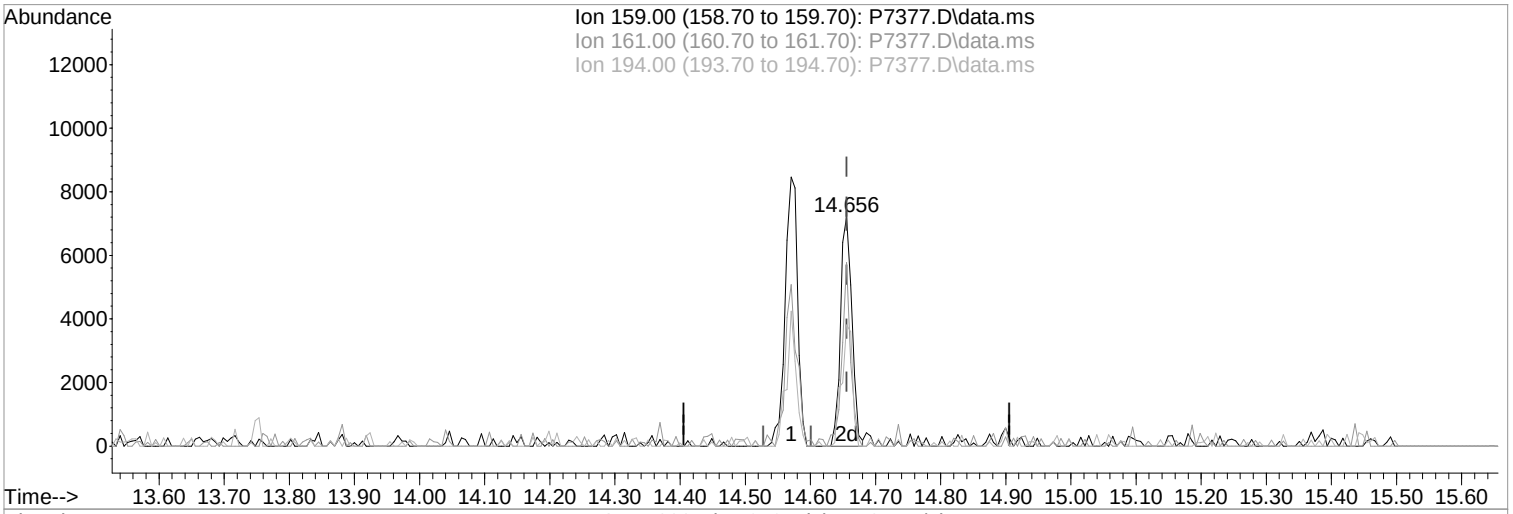
Before

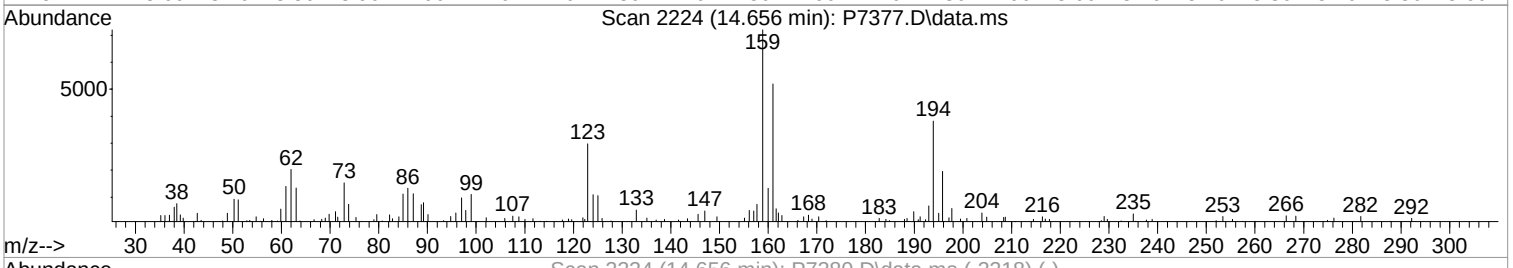
01/05/17

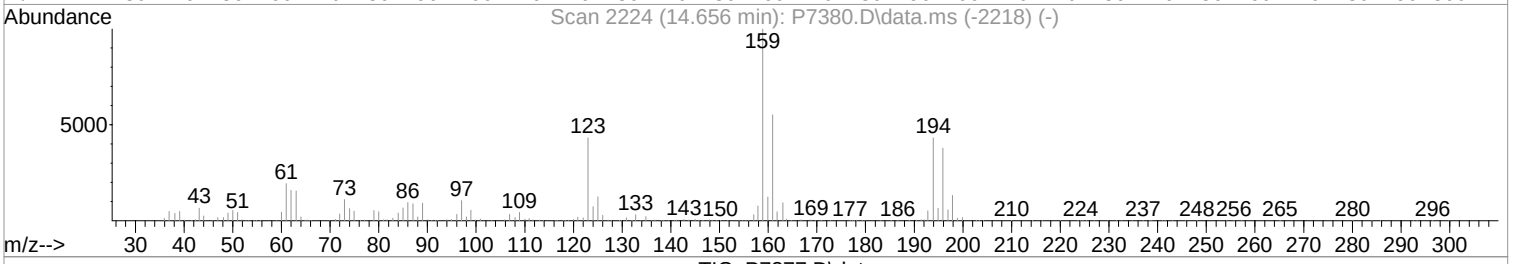
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.656min (+0.000) 1.97 ppb m

response 8826

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	72.14#
194.00	43.50	52.96#
0.00	0.00	0.00

Manual Integration:

After

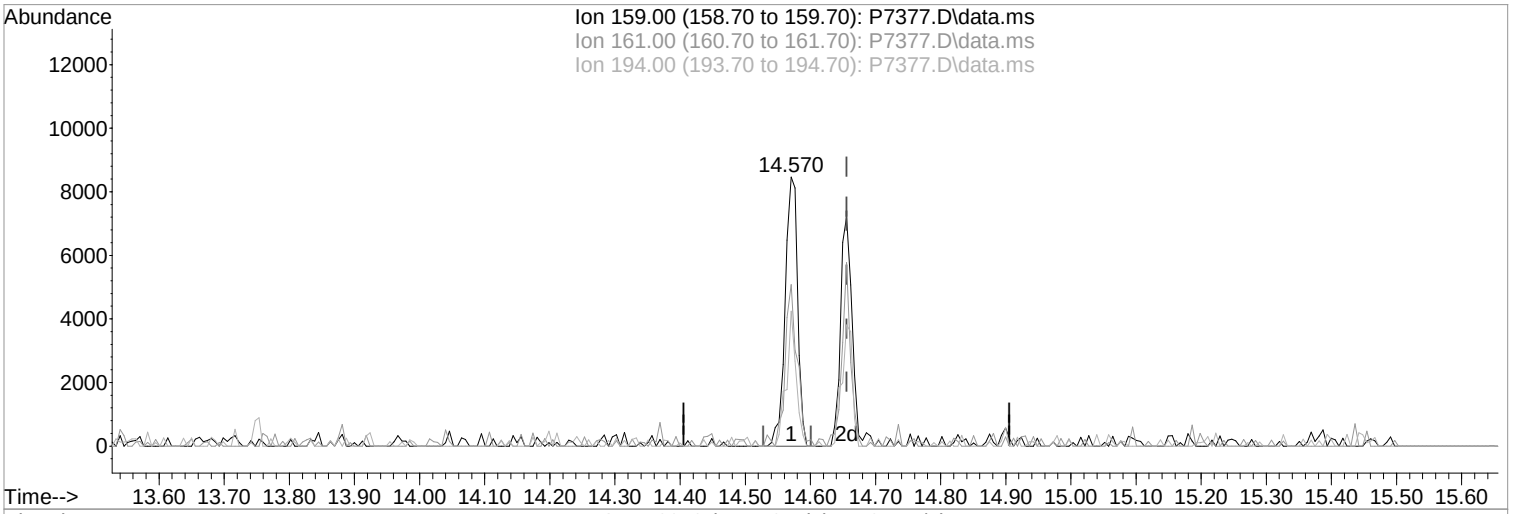
Wrong peak selected.

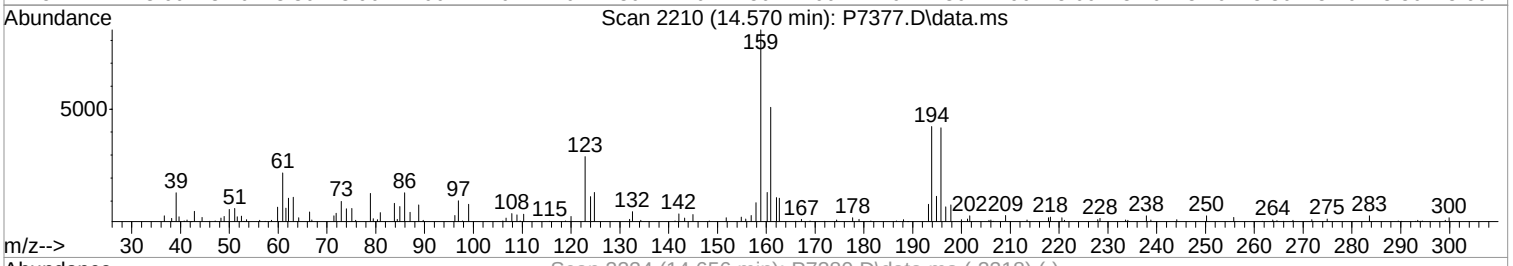
01/05/17

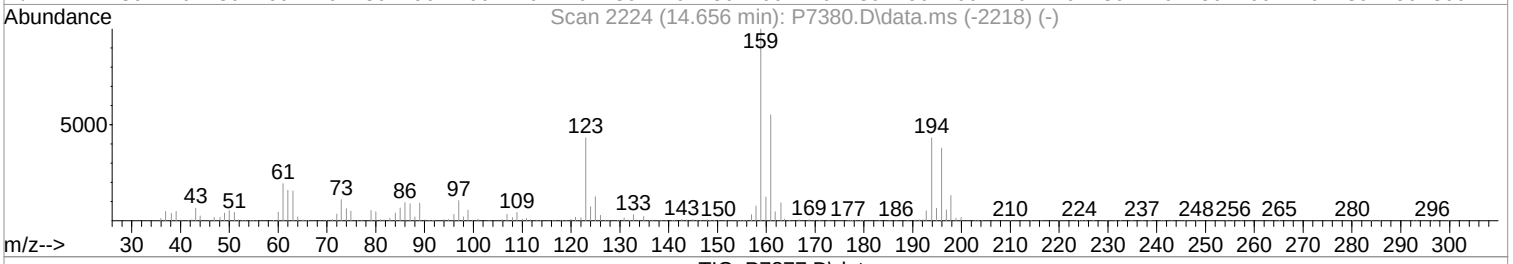
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.570min (-0.085) 2.51 ppb

response 11223

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	59.97
194.00	43.50	50.19
0.00	0.00	0.00

Manual Integration:

Before

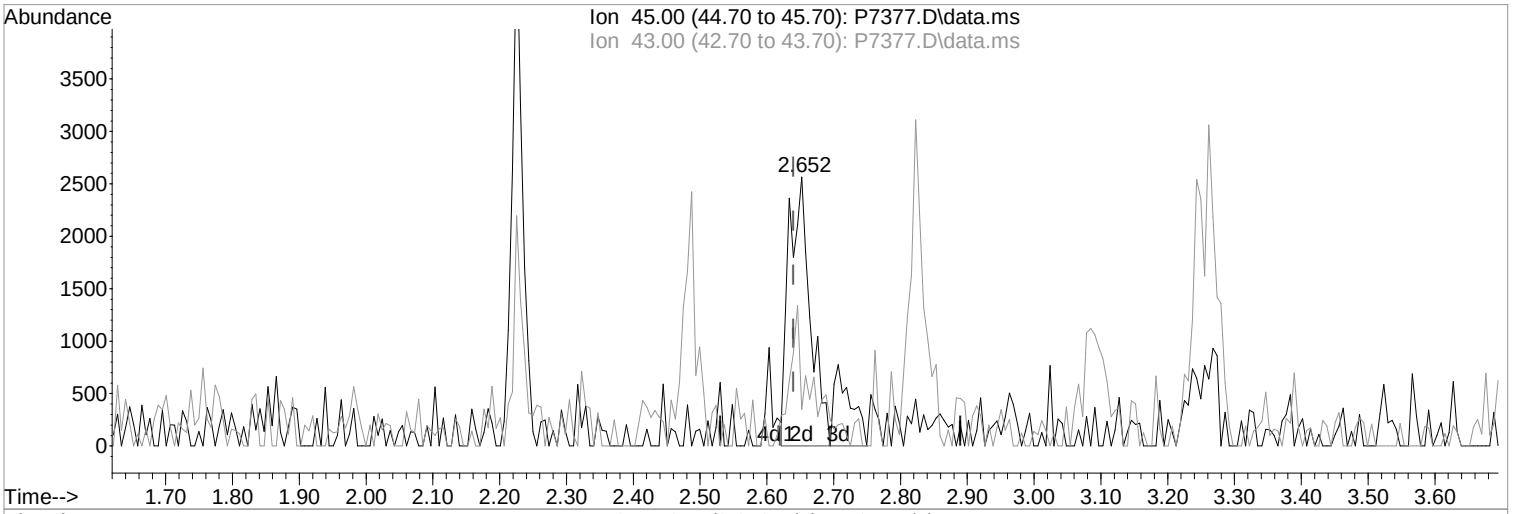
01/05/17

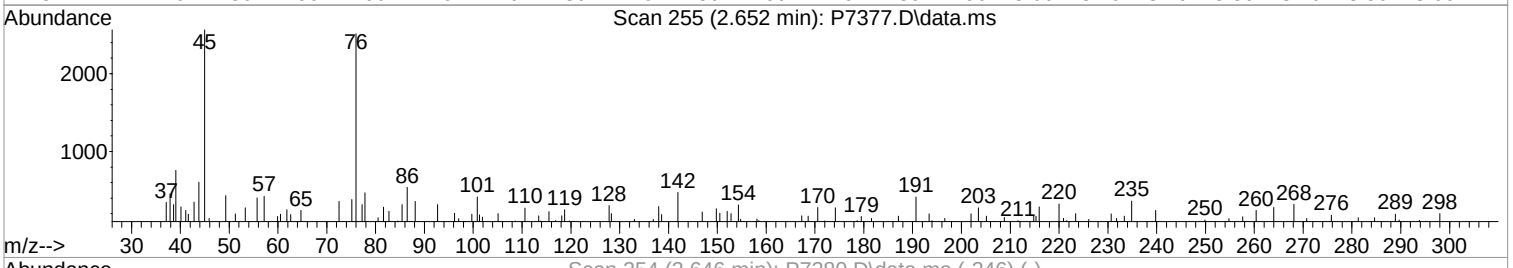
1st 01/05/17
2nd 01/05/17

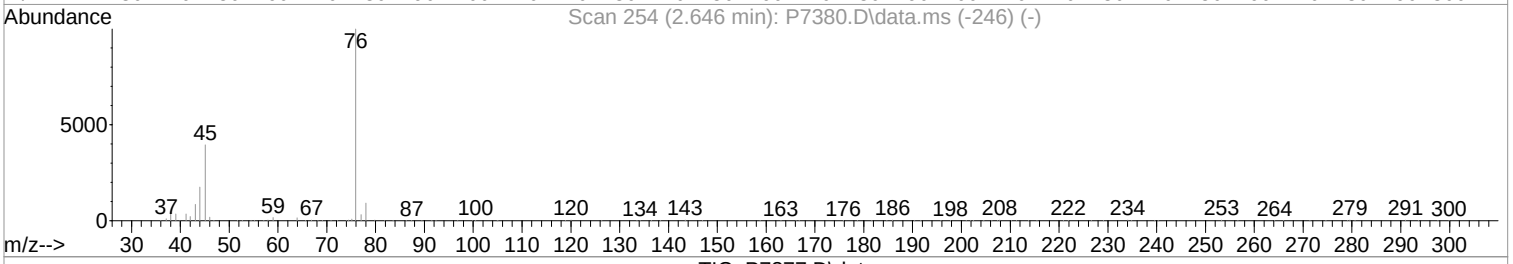
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(16) 2-Propanol

2.652min (+0.012) 40.47 ppb m

response 7151

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	13.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

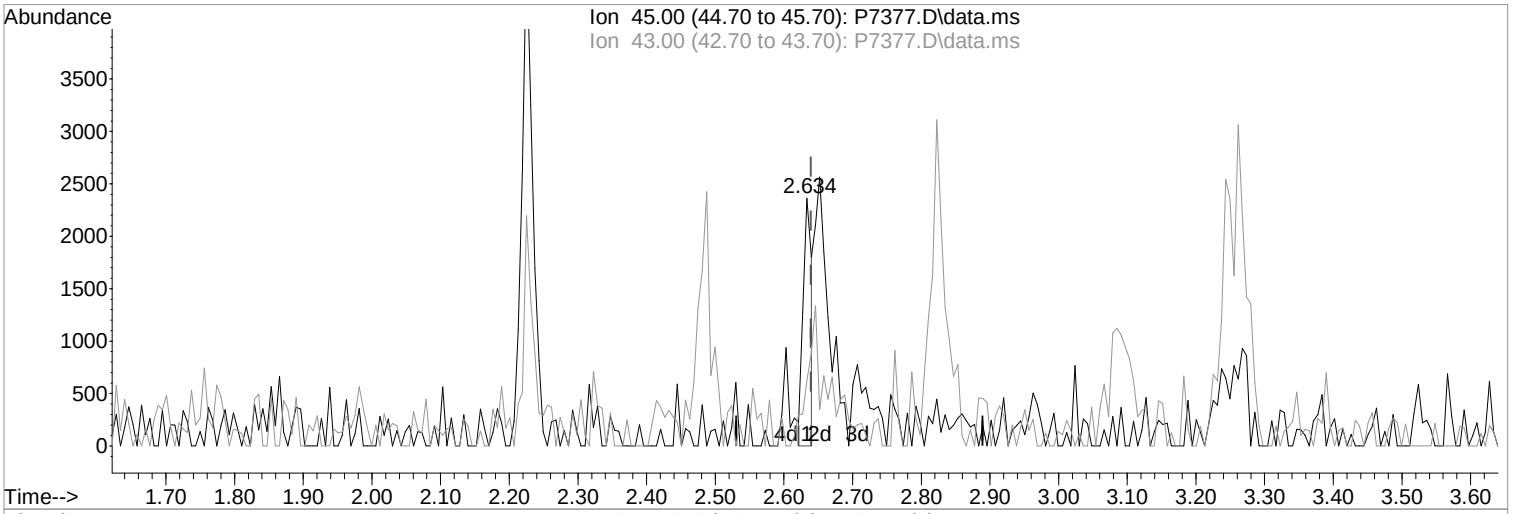
Split Peak

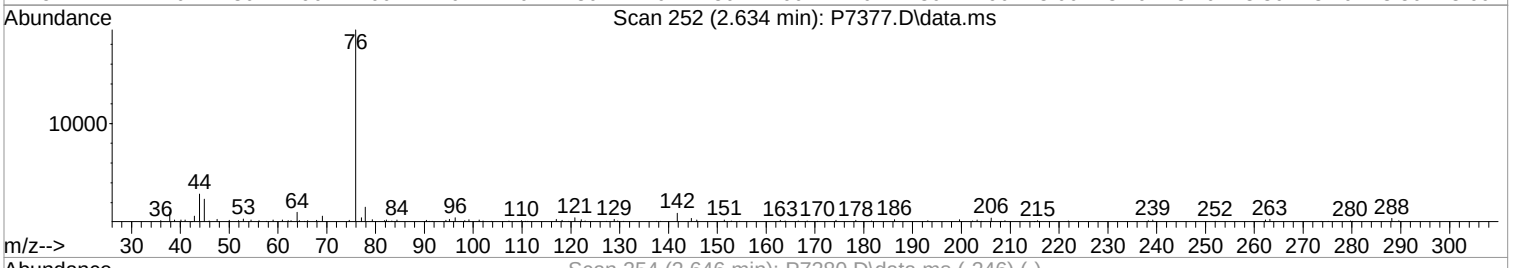
01/05/17

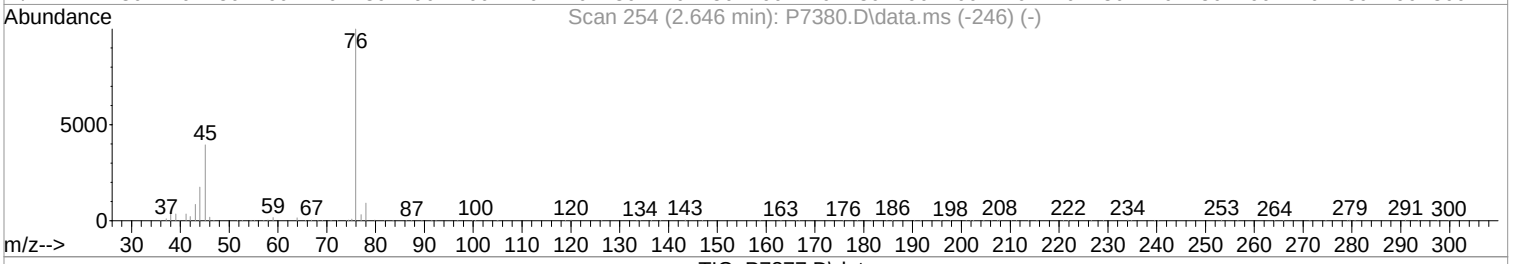
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(16) 2-Propanol

2.634min (-0.006) 11.25 ppb

response 1988

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	26.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

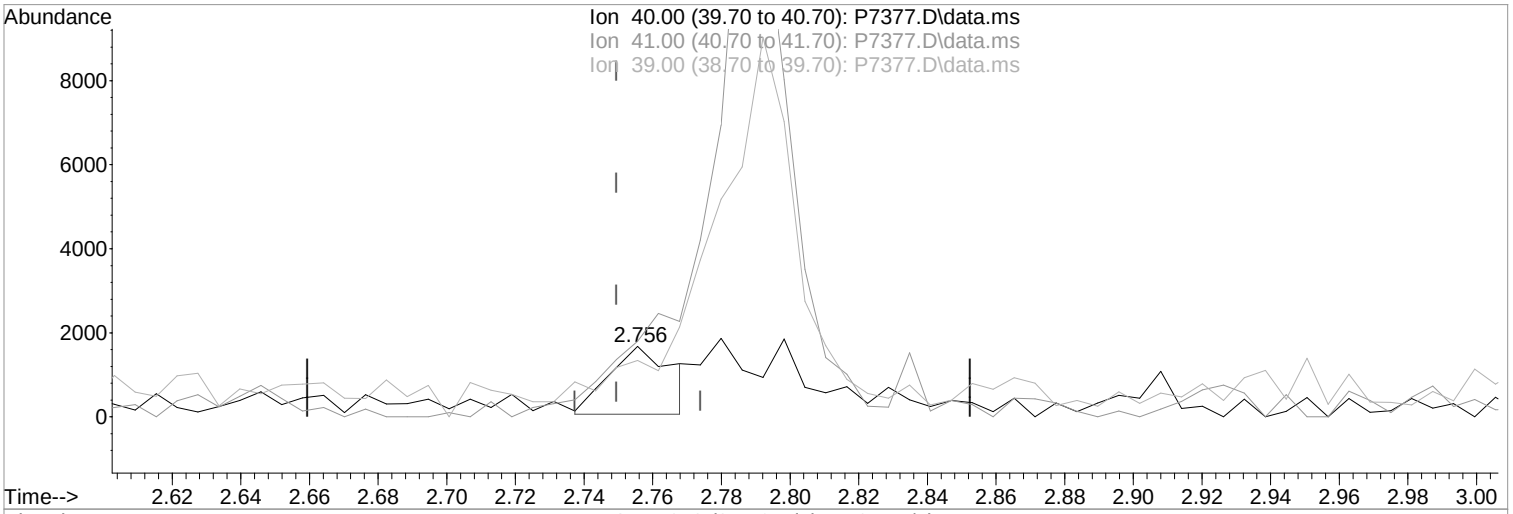
Before

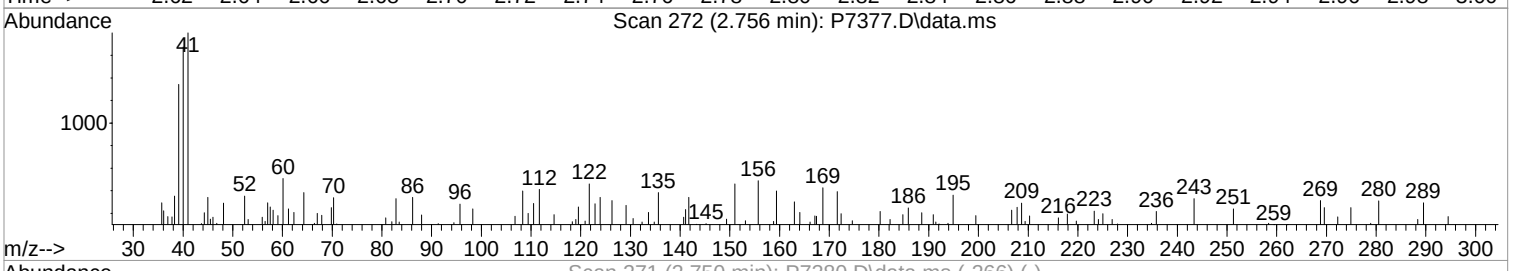
01/05/17

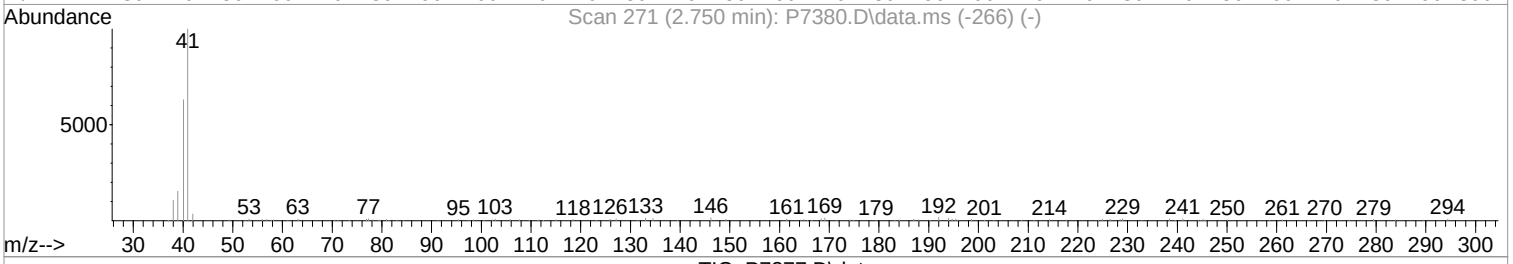
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(19) Acetonitrile

2.756min (+0.006) 11.84 ppb m

response 2070

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	107.46#
39.00	26.70	80.18#
0.00	0.00	0.00

Manual Integration:

After

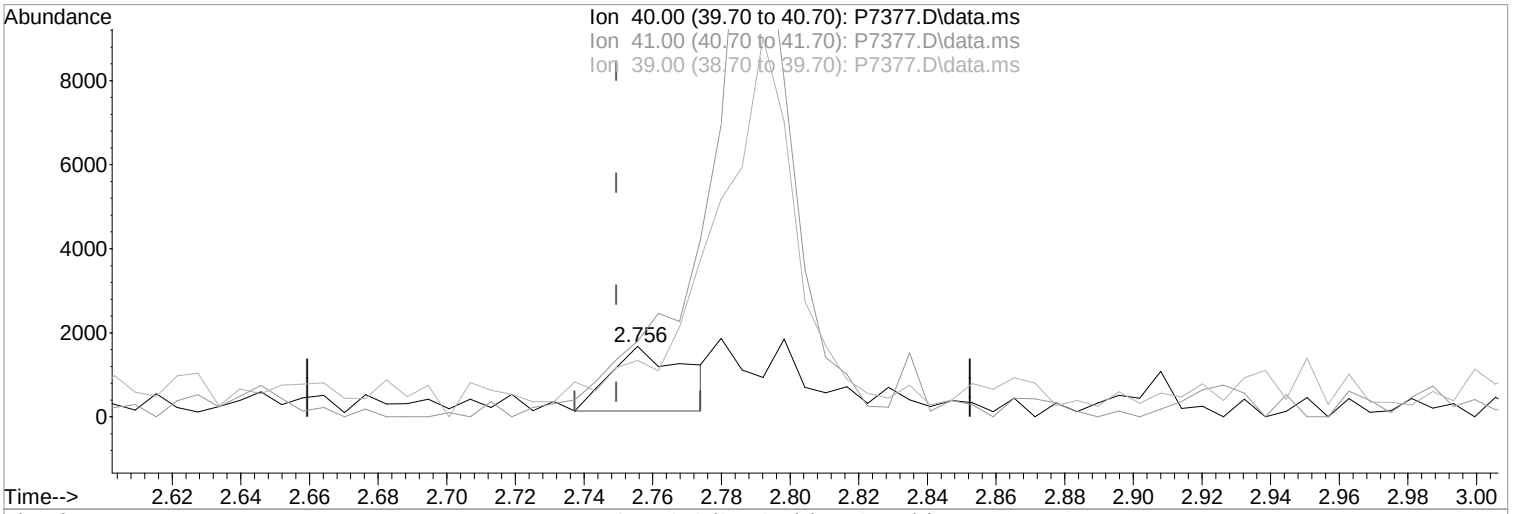
Poor integration.

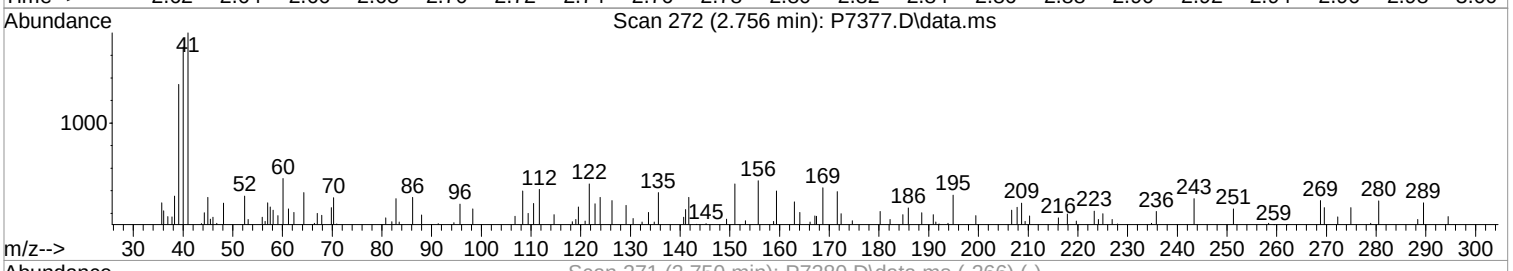
01/05/17

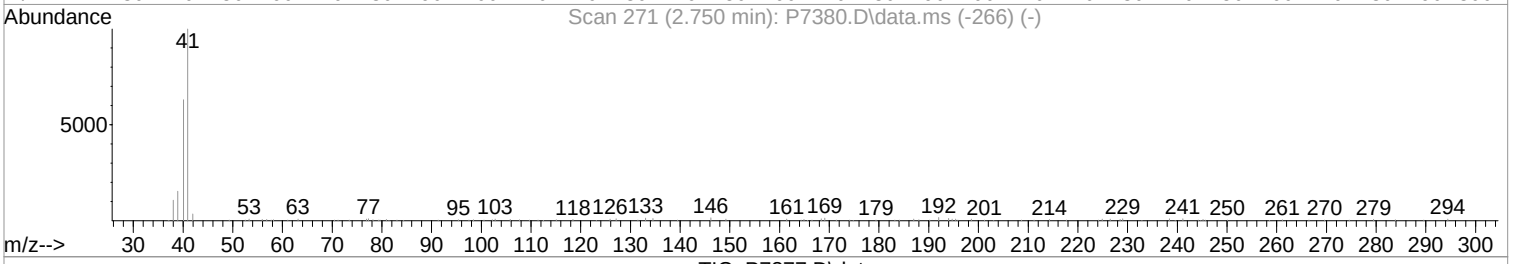
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(19) Acetonitrile

2.756min (+0.006) 13.36 ppb

response 2336

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	107.46#
39.00	26.70	80.18#
0.00	0.00	0.00

Manual Integration:

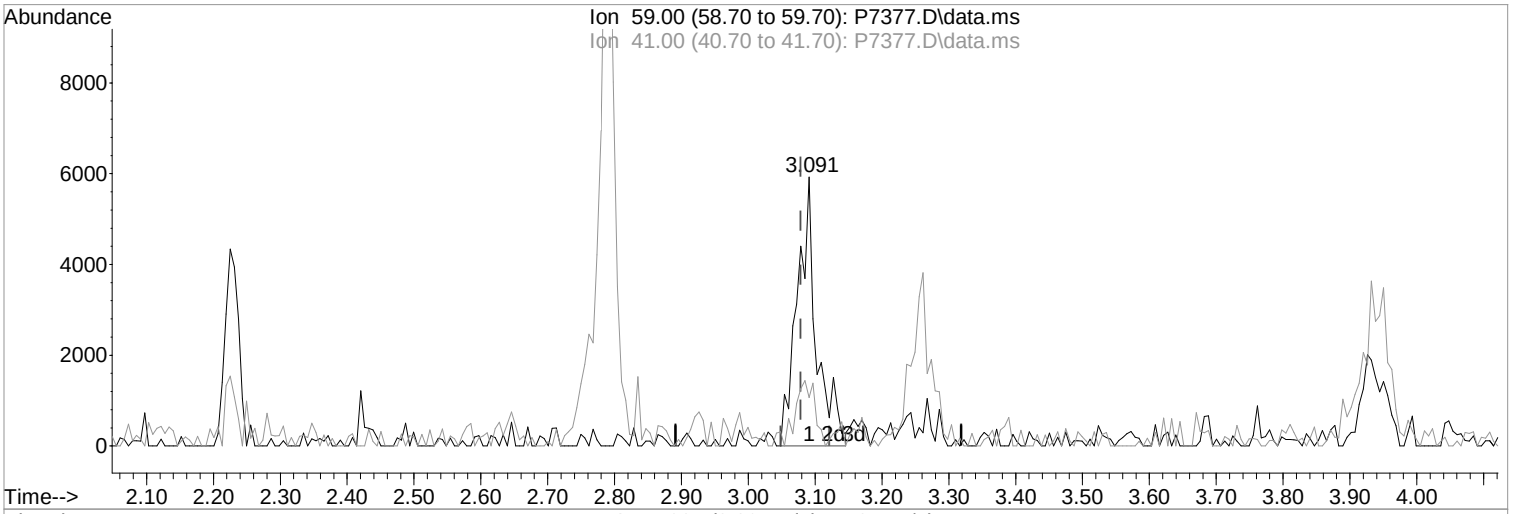
Before

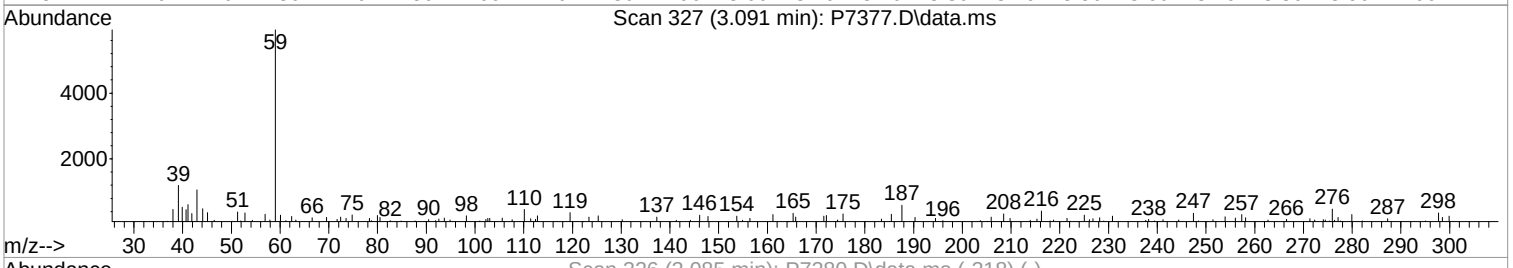
01/05/17

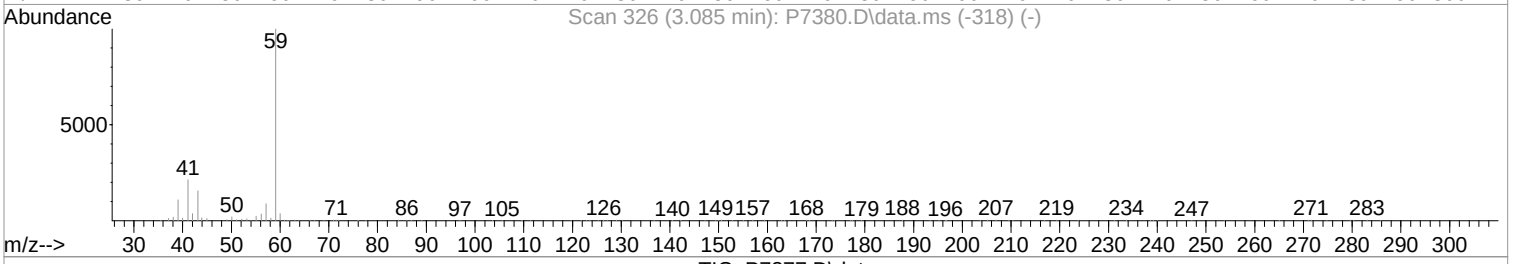
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(23) TBA

3.091min (+0.012) 39.23 ppb m

response 11970

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	10.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

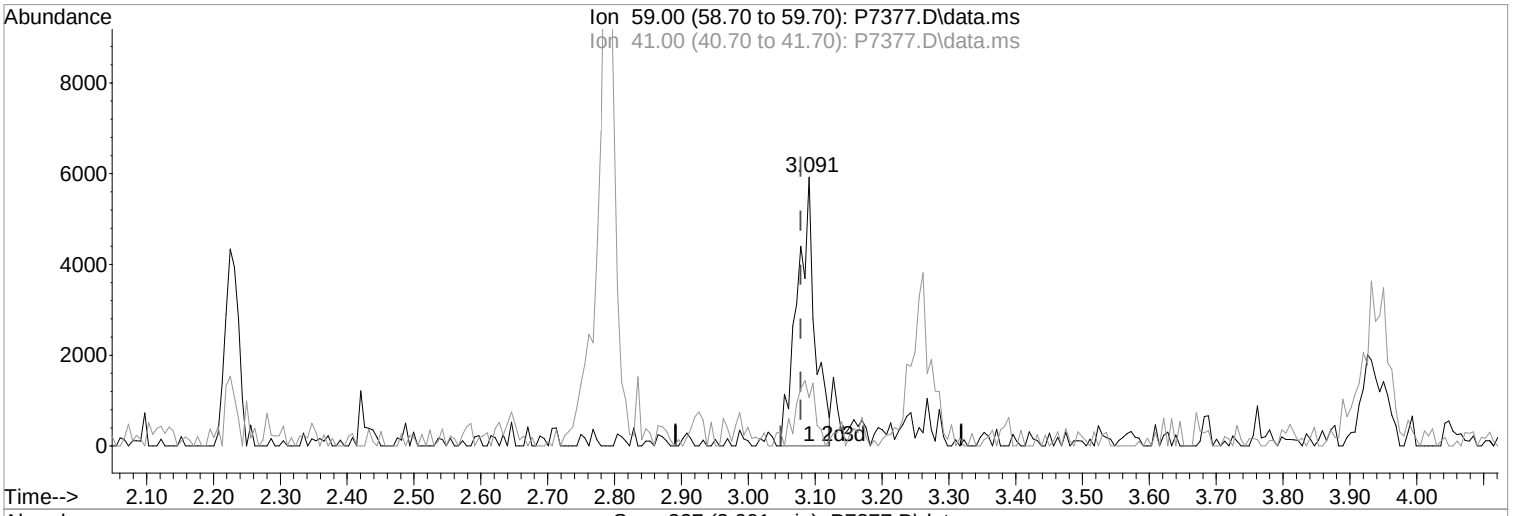
Split Peak

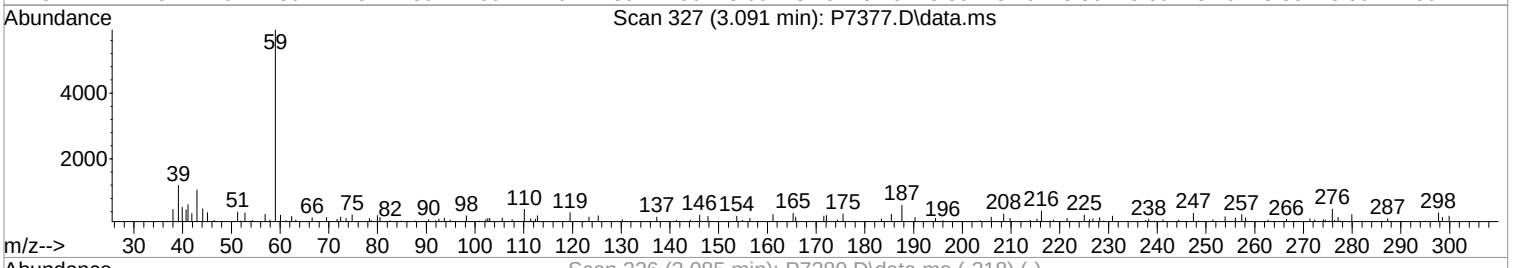
01/05/17

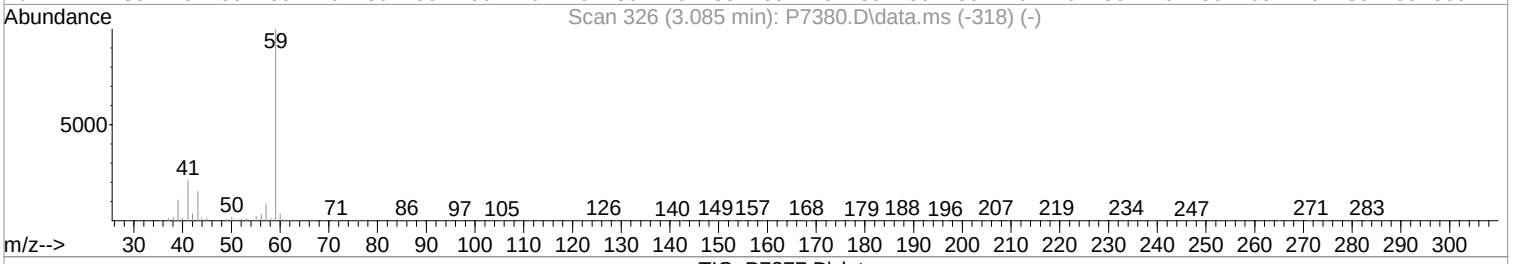
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(23) TBA

3.091min (+0.012) 35.76 ppb

response 10910

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	18.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

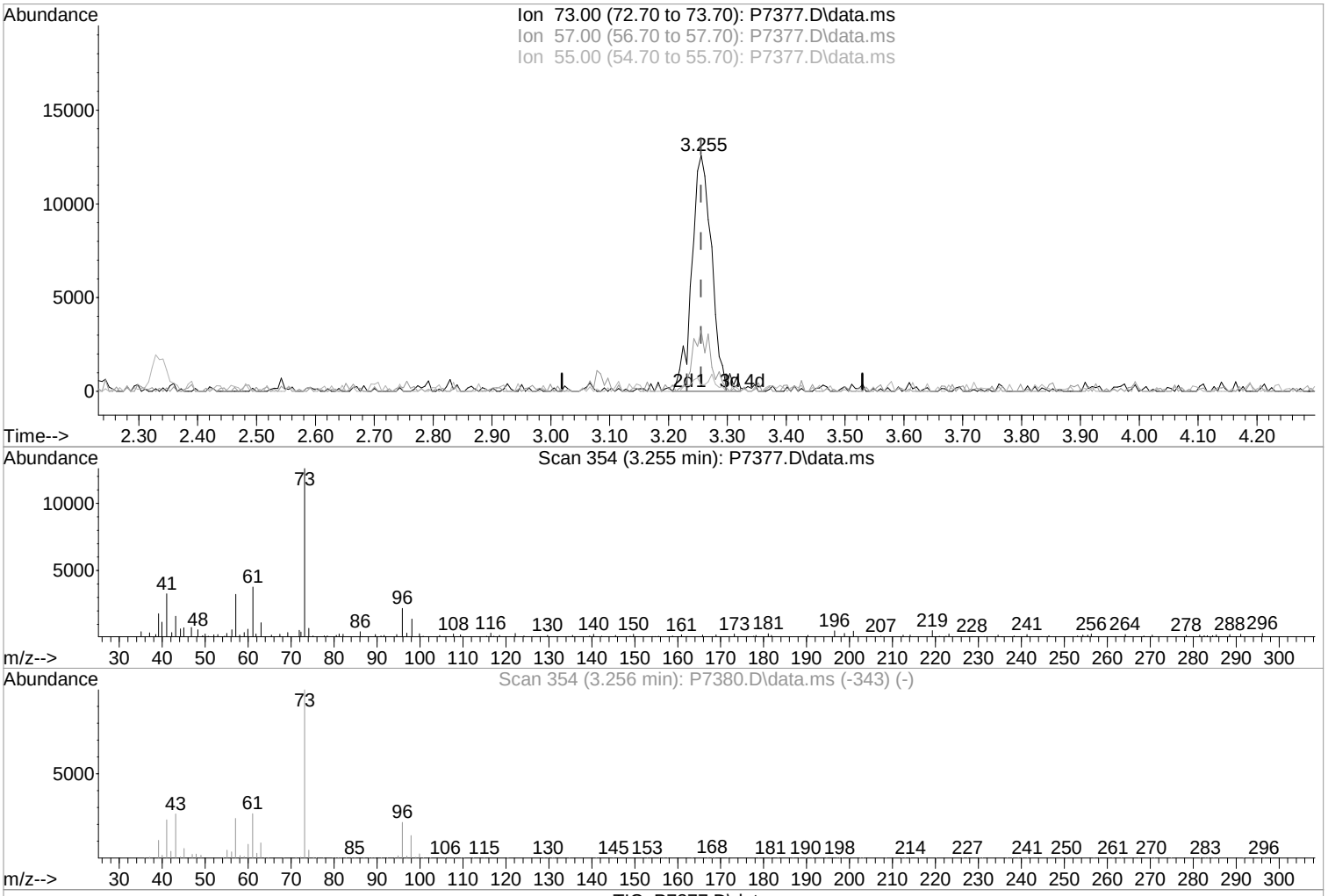
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(25) Methyl-t-Butyl Ether (P)

3.255min (+0.000) 2.11 ppb m

response 29852

Ion	Exp%	Act%
73.00	100	100
57.00	23.60	25.72
55.00	4.70	2.77
0.00	0.00	0.00

Manual Integration:

After

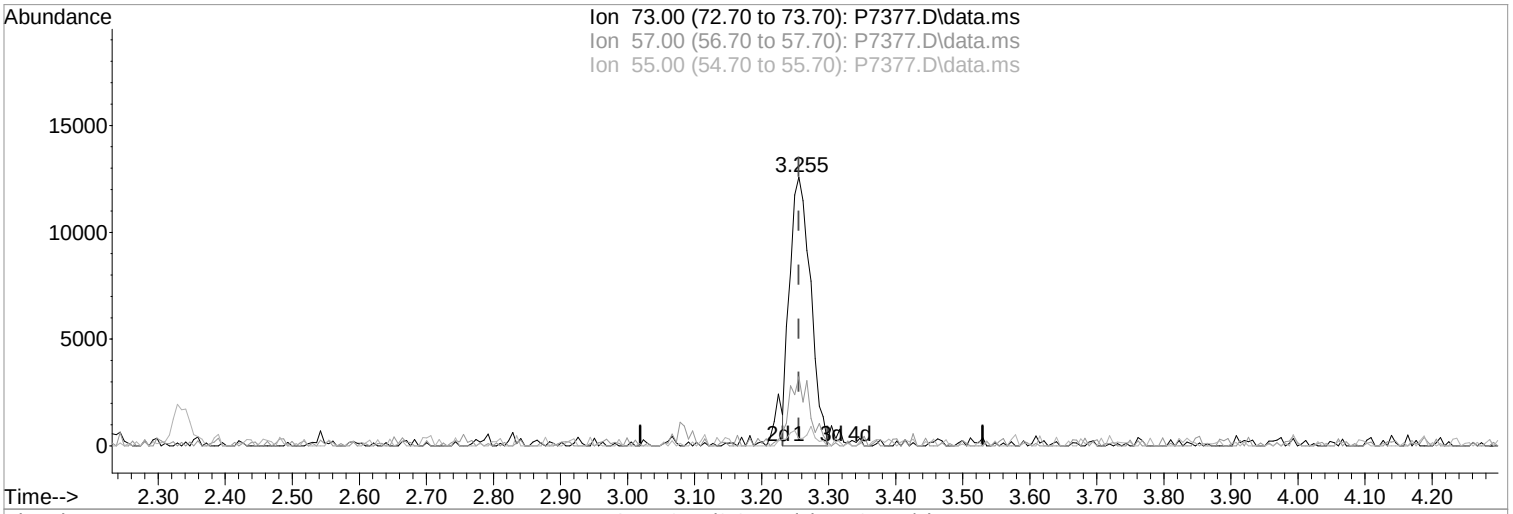
Split Peak

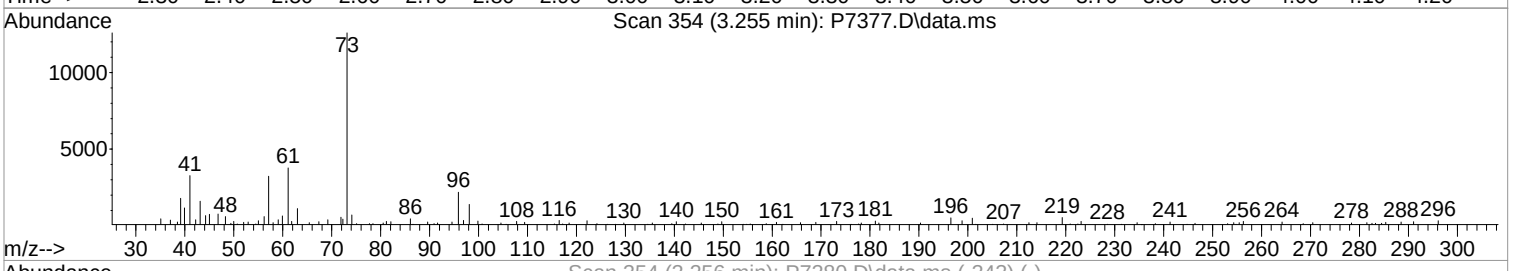
01/05/17

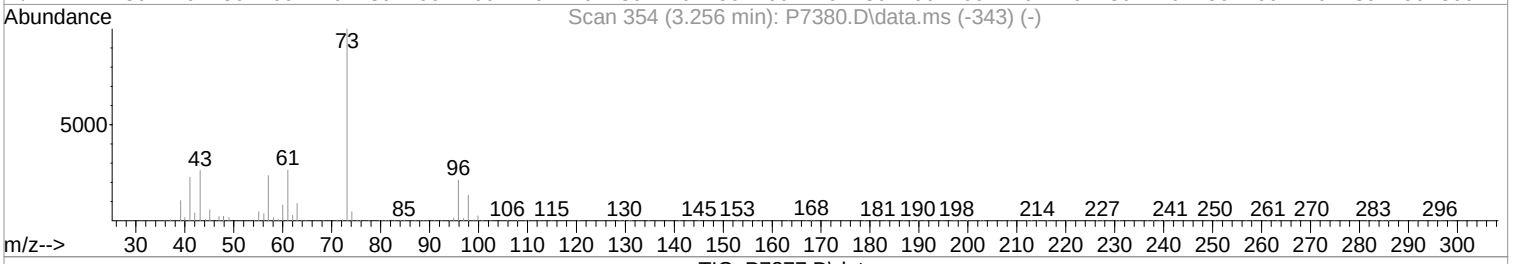
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(25) Methyl-t-Butyl Ether (P)

3.255min (+0.000) 1.91 ppb

response 27055

Ion	Exp%	Act%
73.00	100	100
57.00	23.60	25.72
55.00	4.70	2.77
0.00	0.00	0.00

Manual Integration:

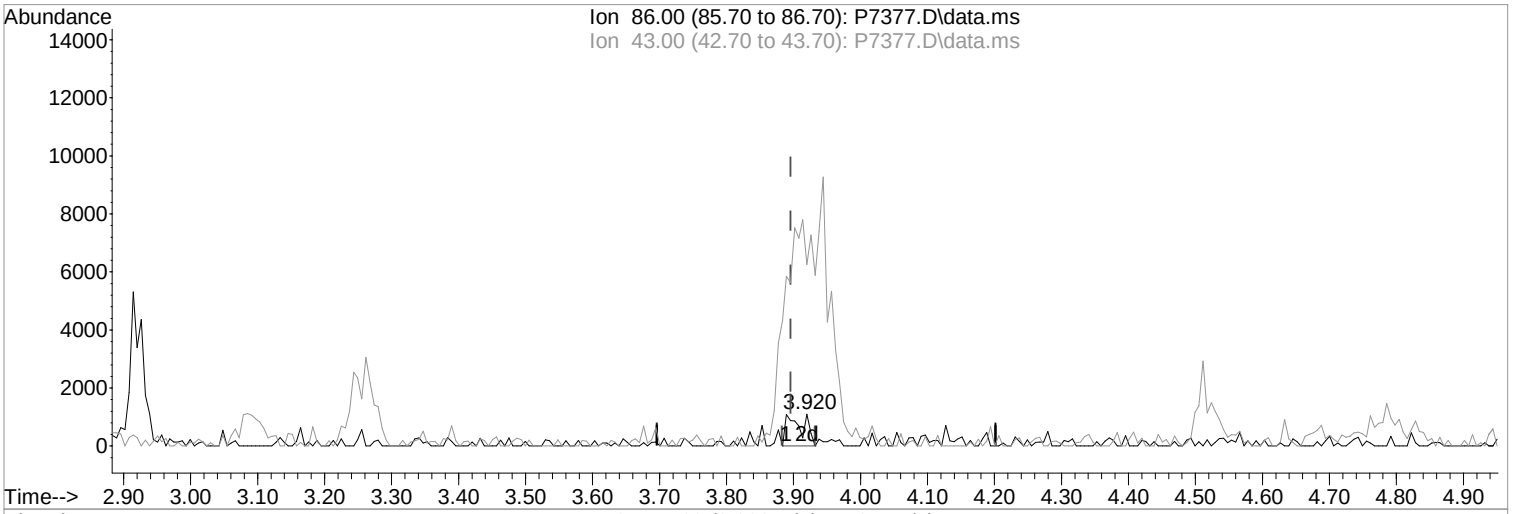
Before

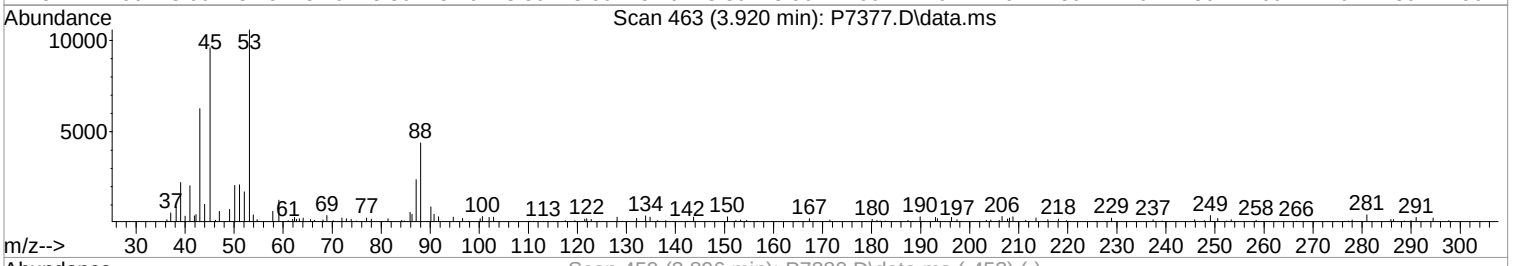
01/05/17

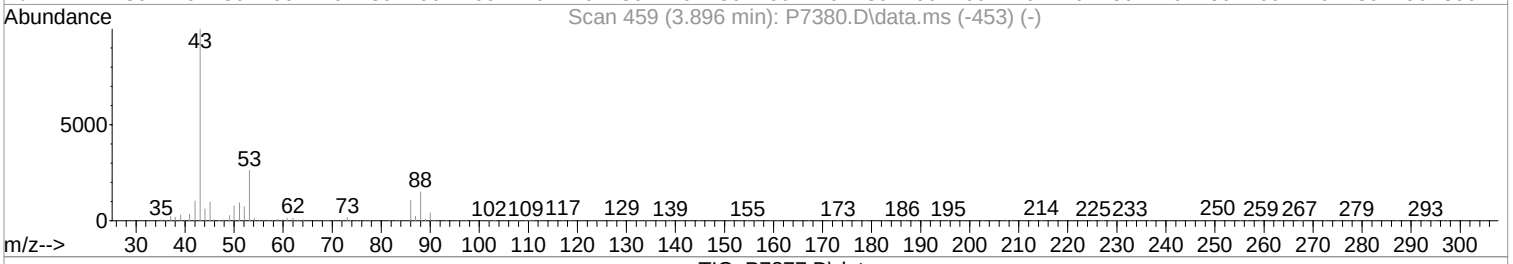
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(29) Vinyl Acetate

3.920min (+0.024) 1.92 ppb m

response 1949

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	1041.76#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

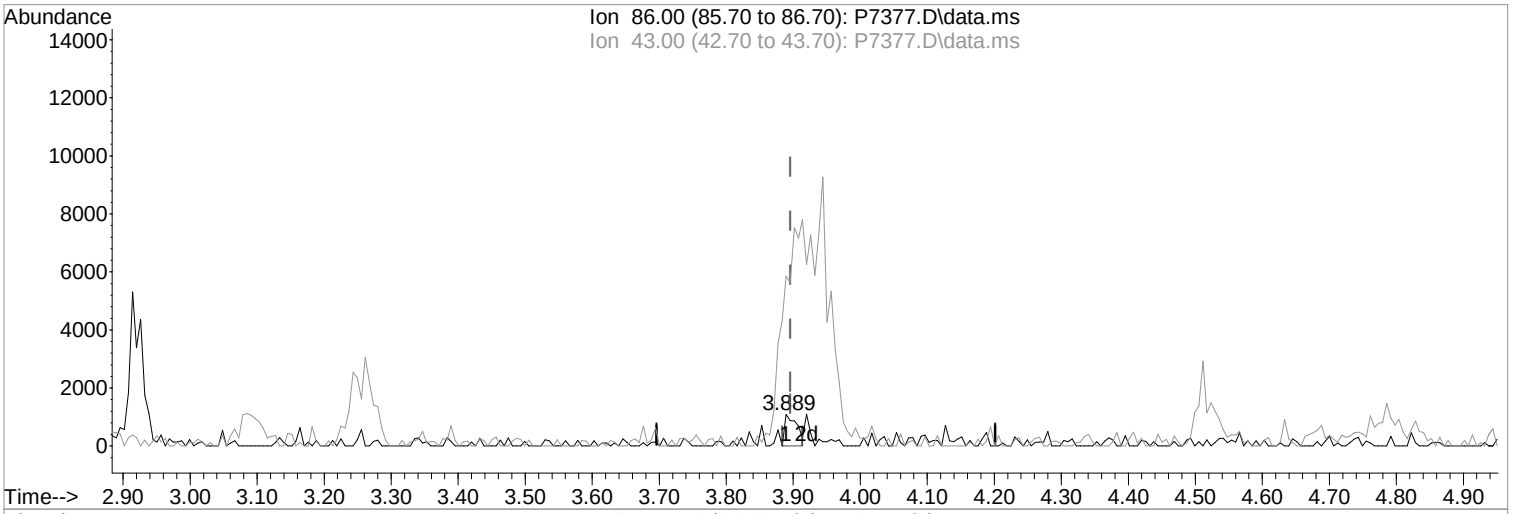
Poor integration.

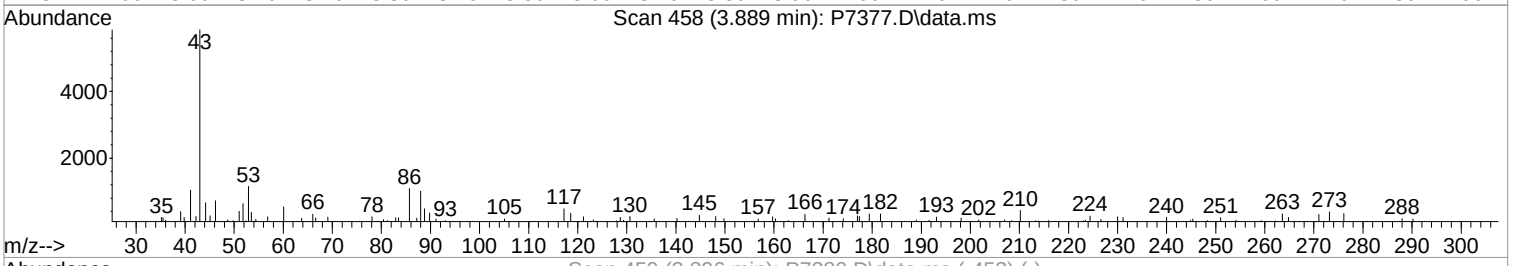
01/05/17

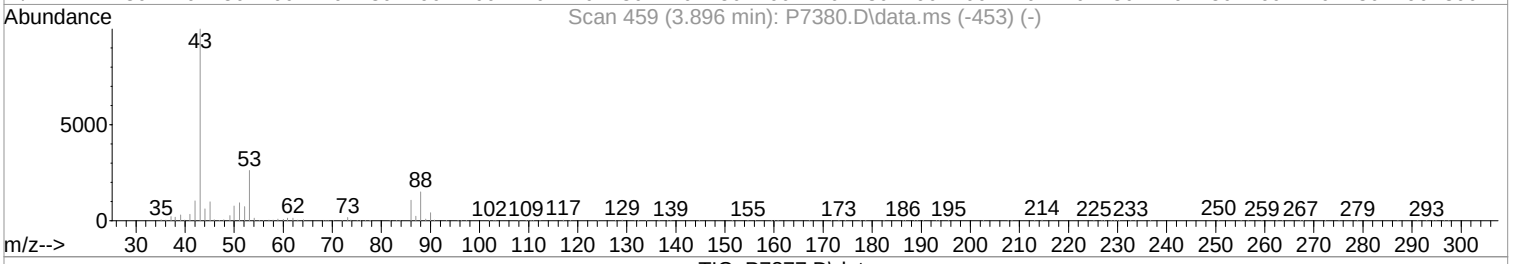
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(29) Vinyl Acetate

3.889min (-0.006) 1.37 ppb

response 1387

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	541.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

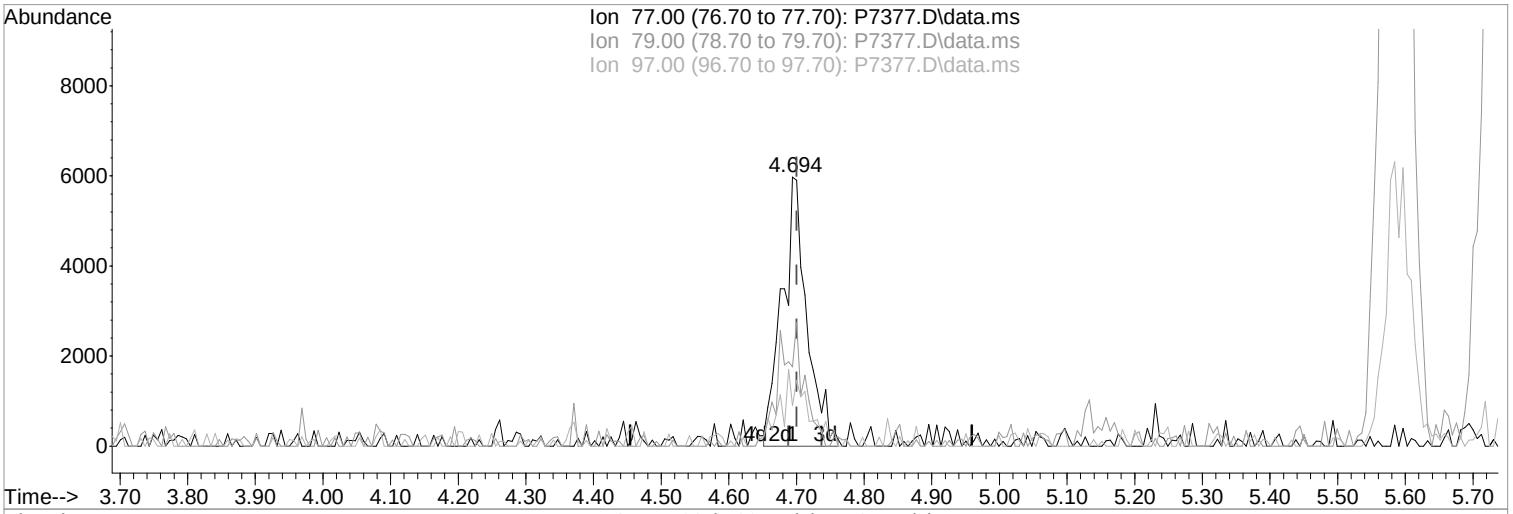
Before

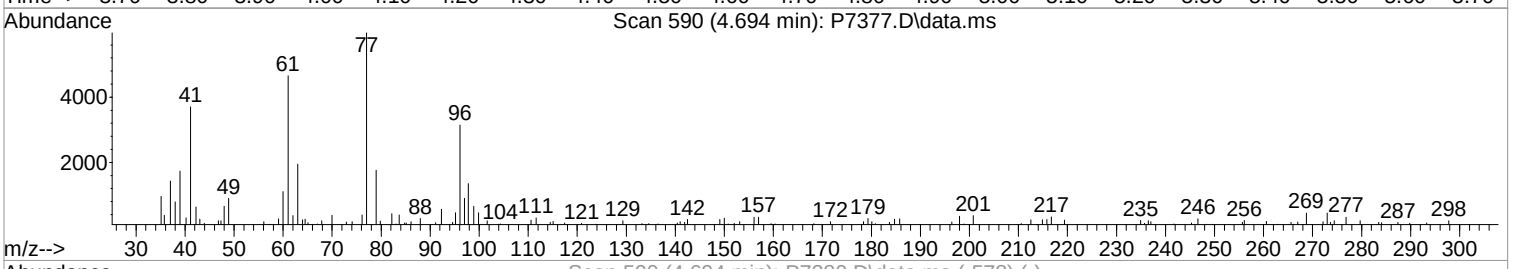
01/05/17

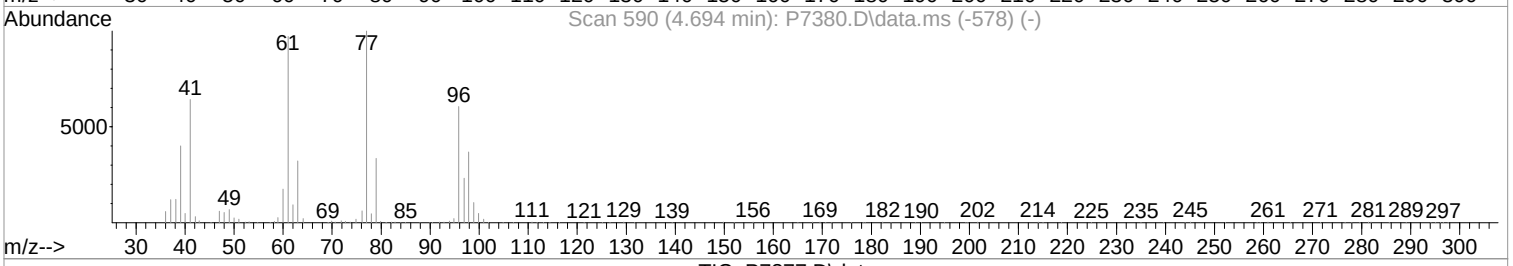
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(33) 2,2-Dichloropropane

4.694min (-0.006) 1.85 ppb m

response 15192

Ion	Exp%	Act%
77.00	100	100
79.00	33.80	29.48
97.00	23.20	15.08
0.00	0.00	0.00

Manual Integration:

After

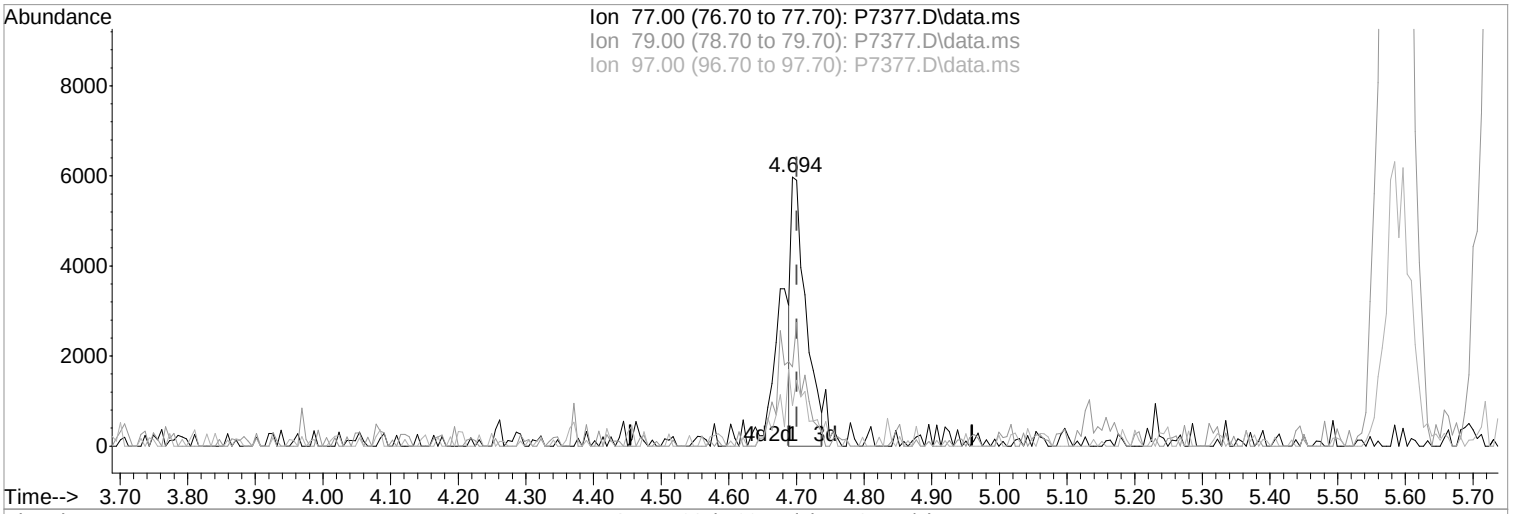
Split Peak

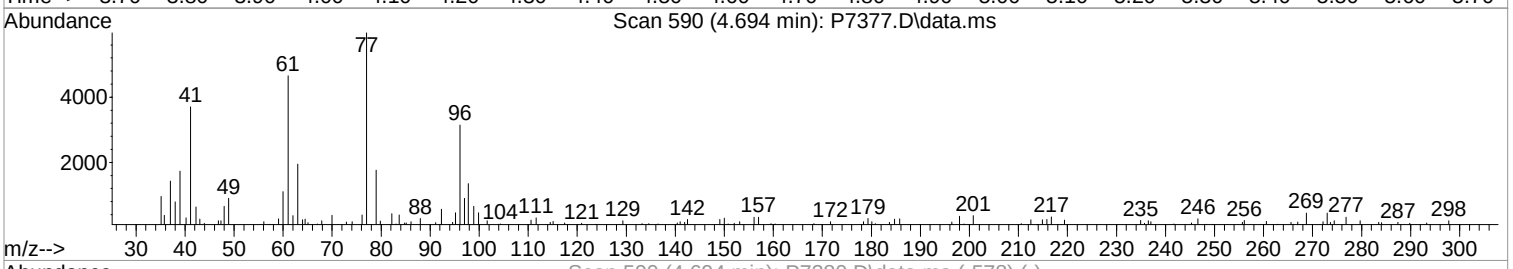
01/05/17

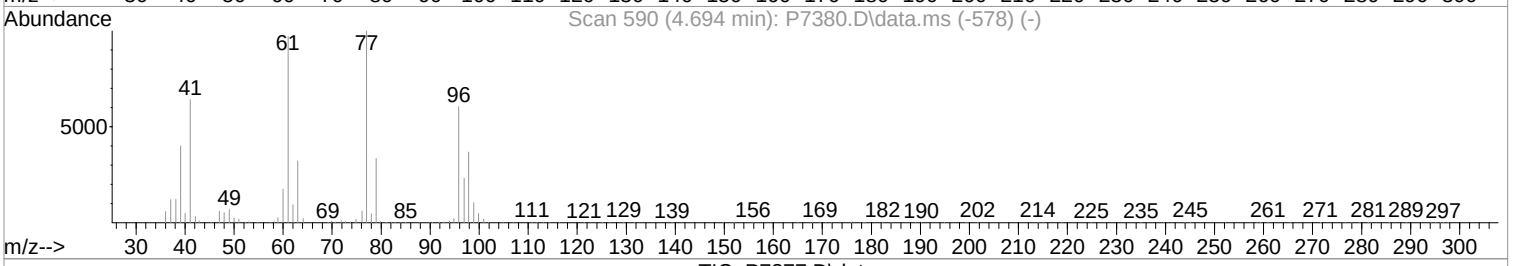
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(33) 2,2-Dichloropropane

4.694min (-0.006) 1.11 ppb

response 9119

Ion	Exp%	Act%
77.00	100	100
79.00	33.80	29.48
97.00	23.20	15.08
0.00	0.00	0.00

Manual Integration:

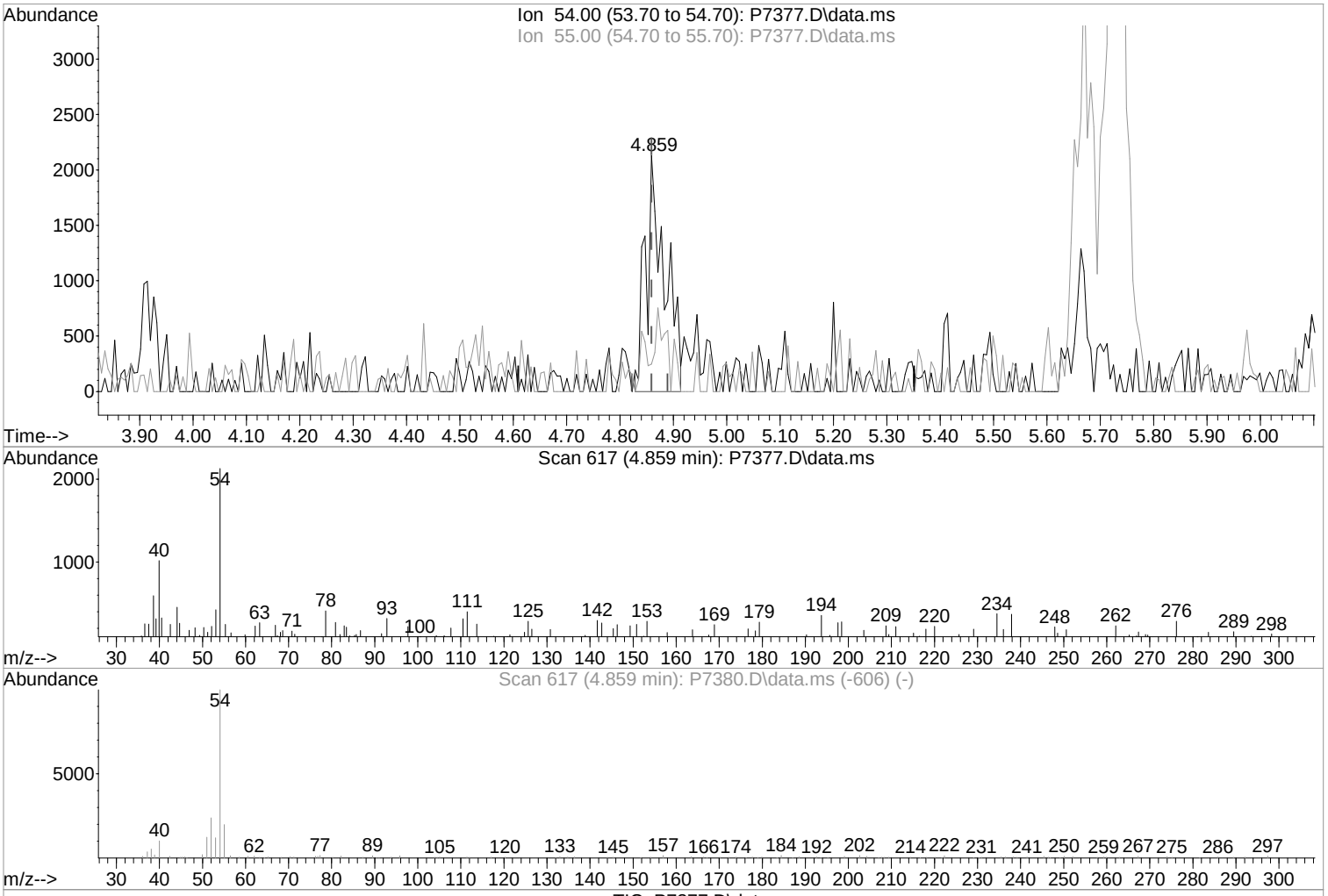
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(36) Propionitrile

4.859min (+0.000) 10.35 ppb m

response 5200

Ion	Exp%	Act%
54.00	100	100
55.00	20.30	11.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

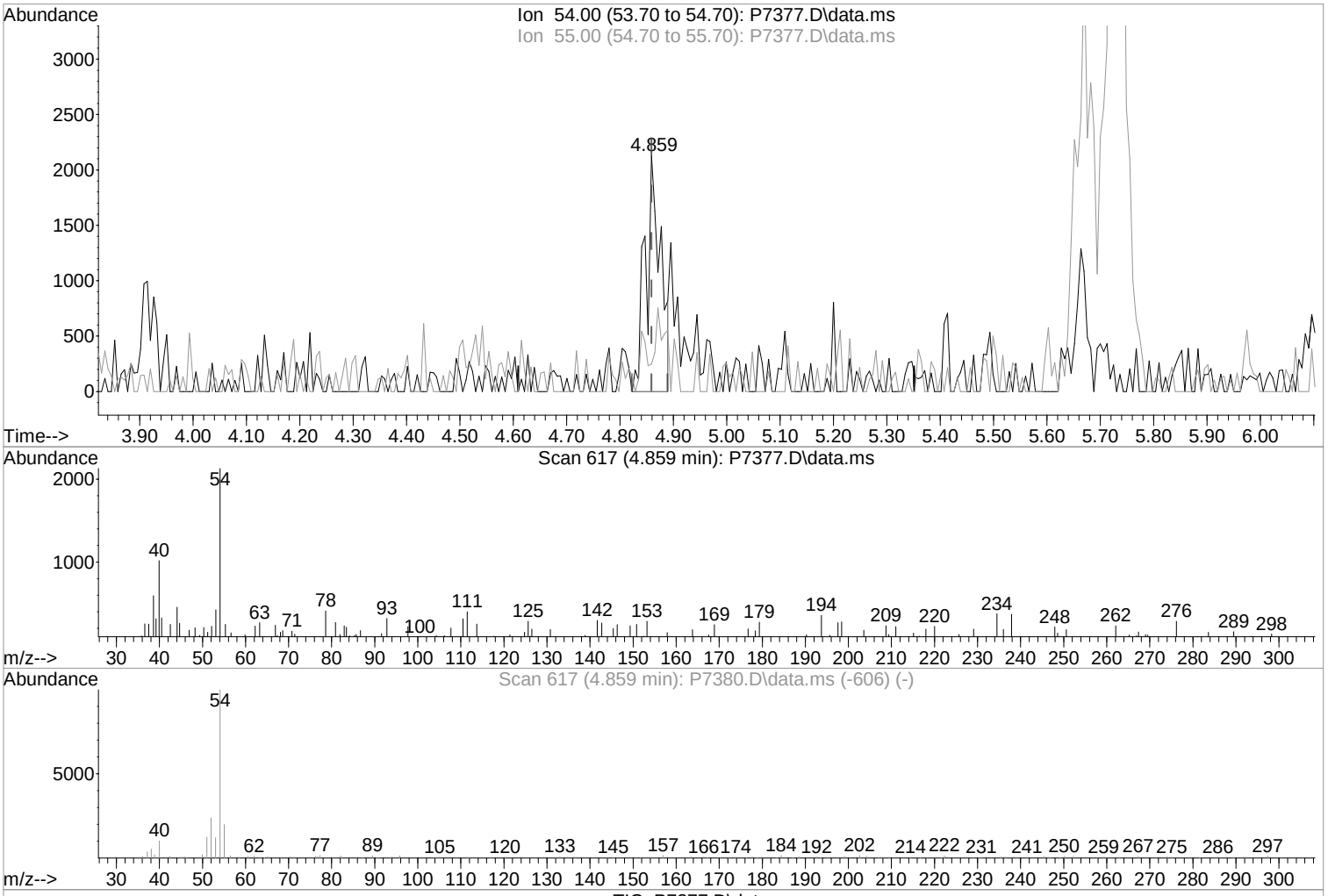
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(36) Propionitrile

4.859min (+0.000) 8.30 ppb

response 4171

Ion	Exp%	Act%
54.00	100	100
55.00	20.30	11.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

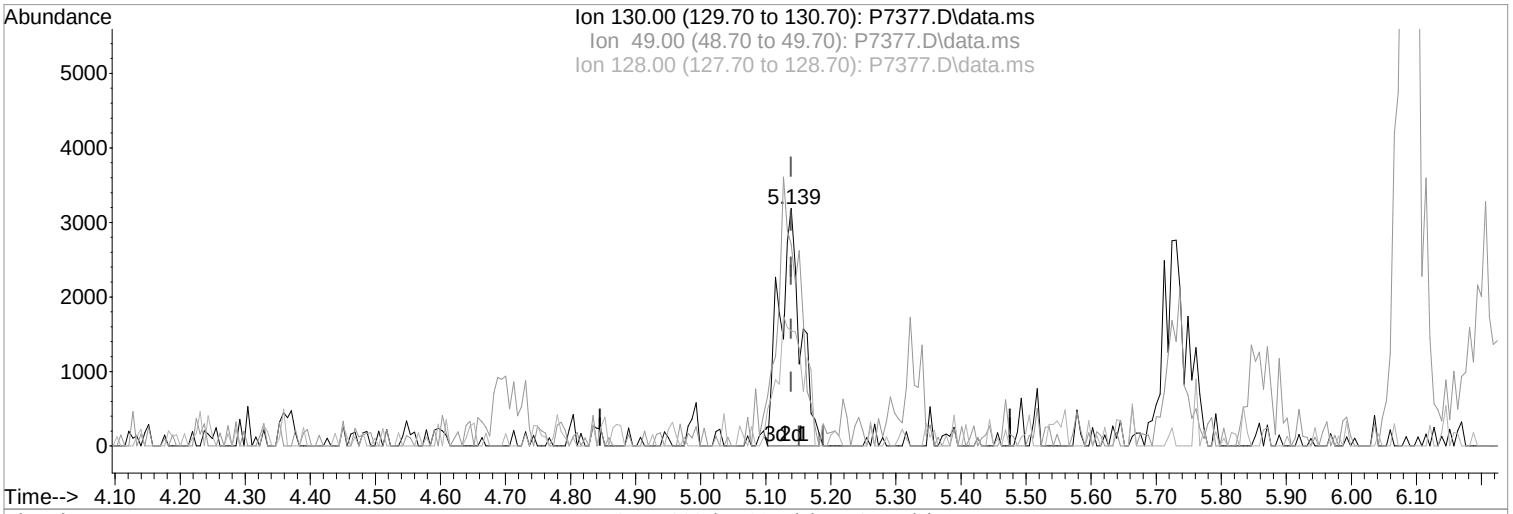
Before

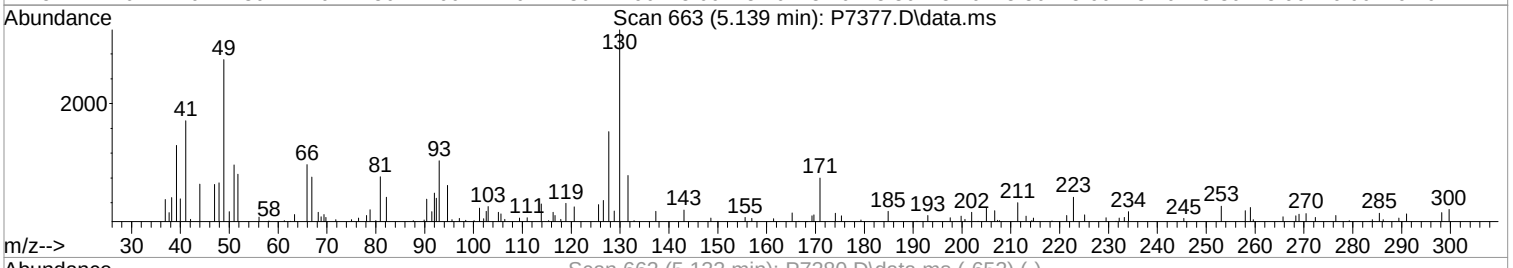
01/05/17

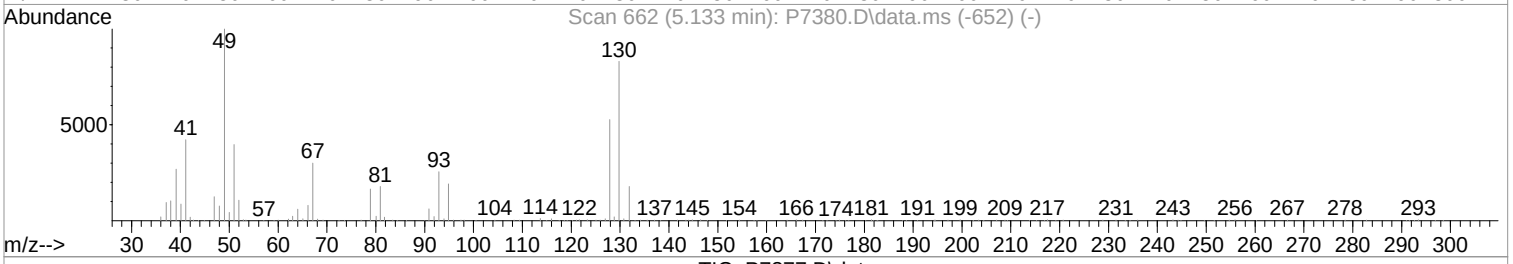
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(37) Bromochloromethane

5.139min (+0.000) 2.01 ppb m

response 7242

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	84.92#
128.00	64.20	48.57
0.00	0.00	0.00

Manual Integration:

After

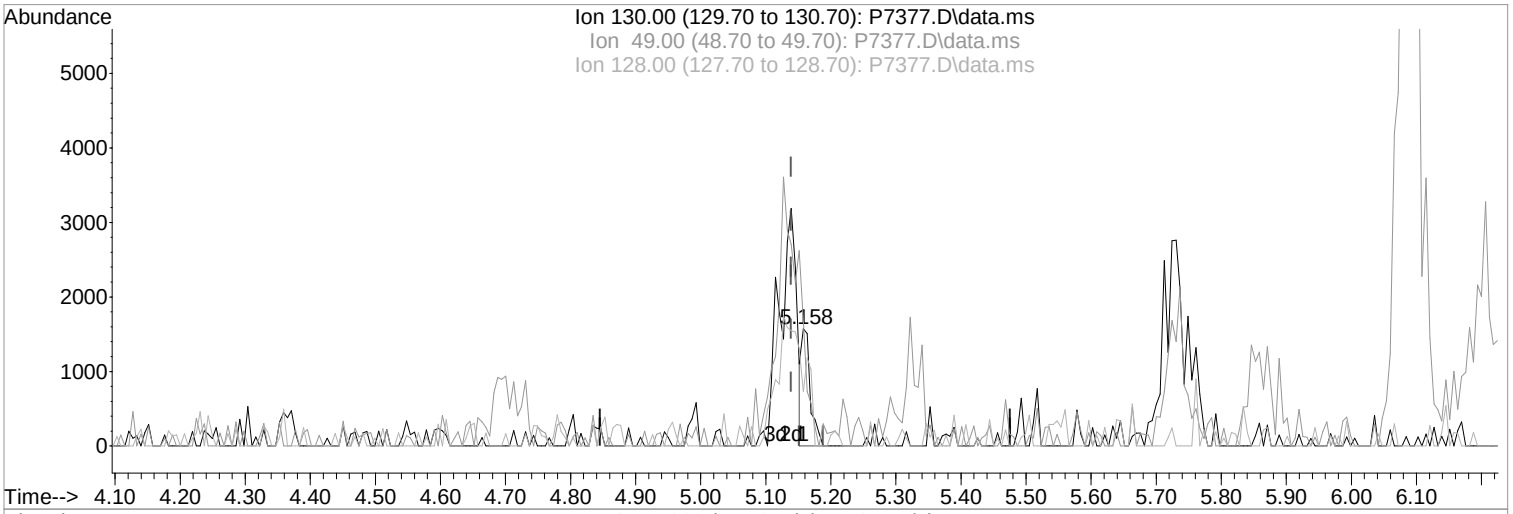
Split Peak

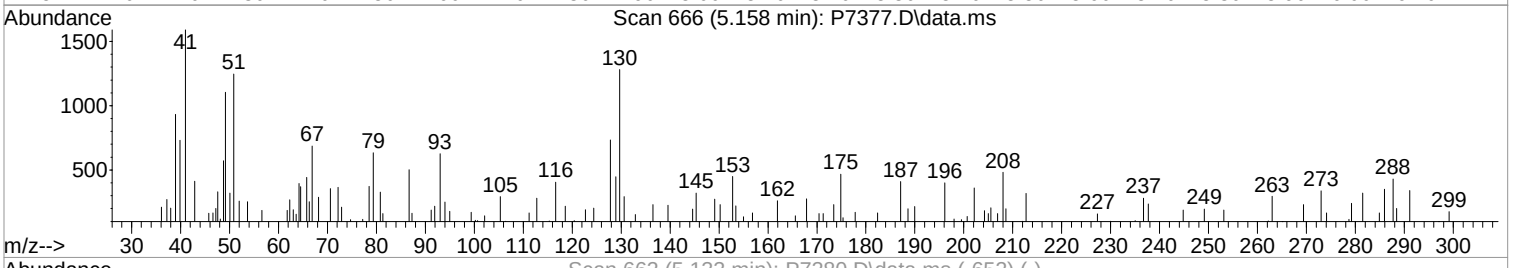
01/05/17

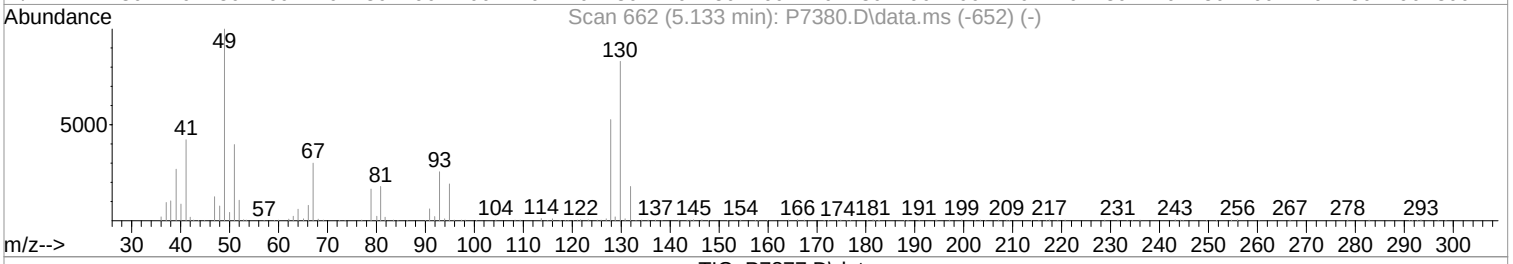
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(37) Bromochloromethane

5.158min (+0.018) 0.41 ppb

response 1480

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	106.48
128.00	64.20	46.57
0.00	0.00	0.00

Manual Integration:

Before

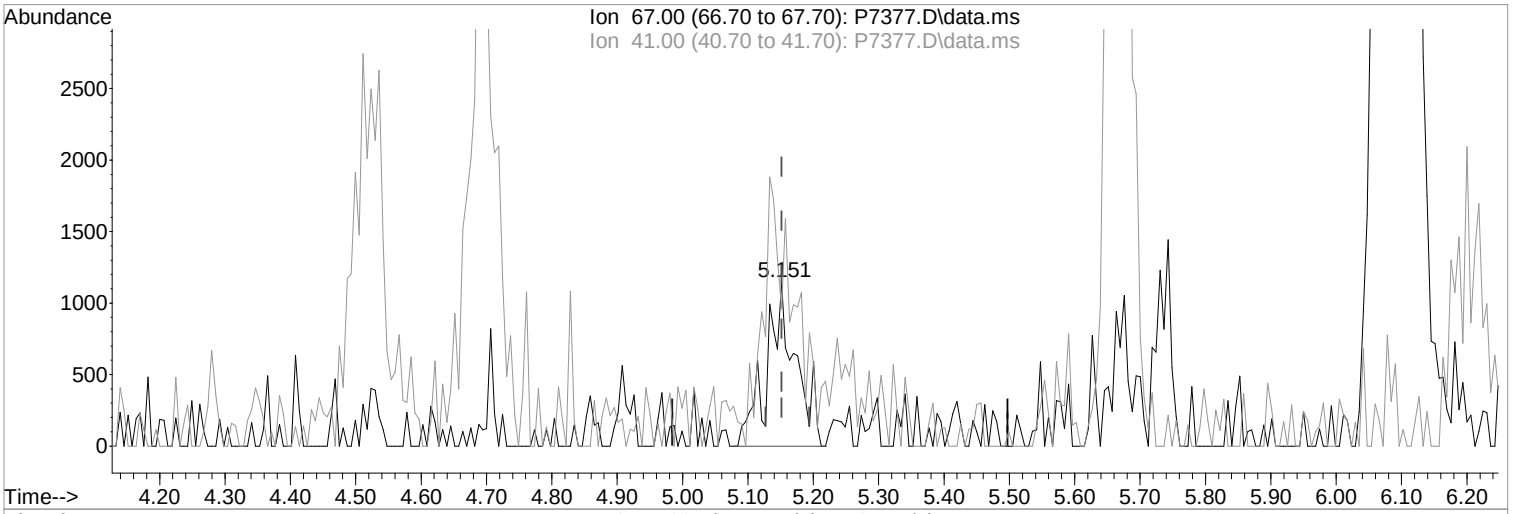
01/05/17

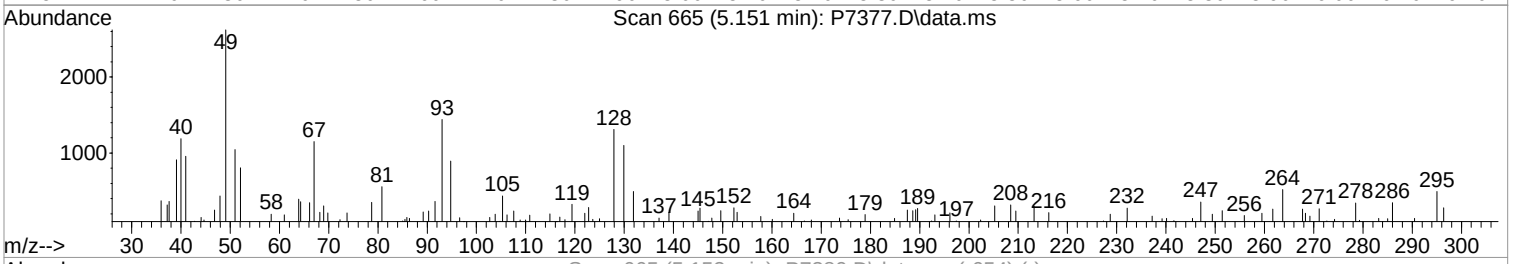
1st 01/05/17
2nd 01/05/17

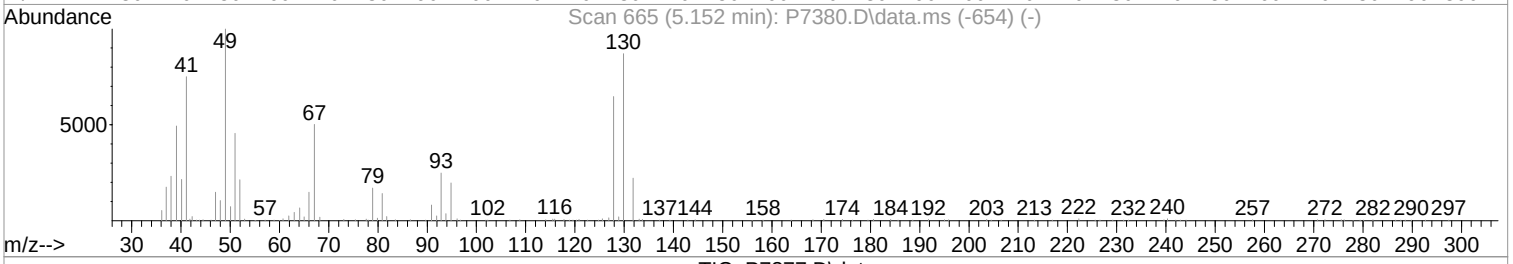
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(38) Methacrylonitrile

5.151min (+0.000) 2.18 ppb m

response 3519

Ion	Exp%	Act%
67.00	100	100
41.00	150.60	83.39#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

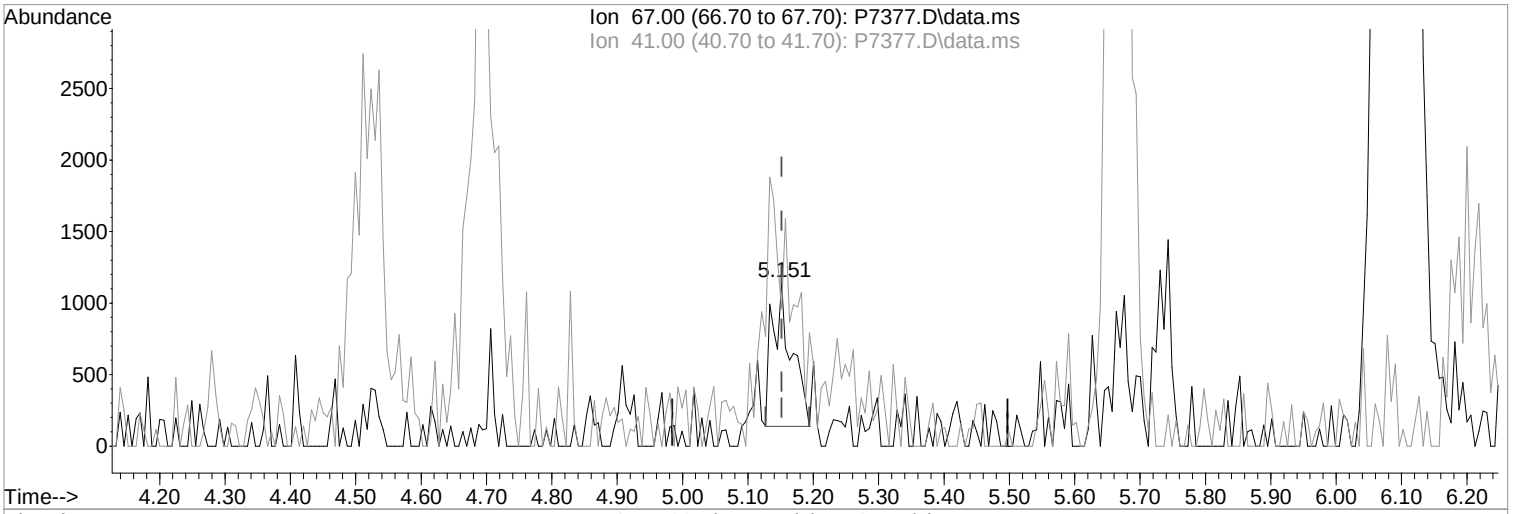
Split Peak

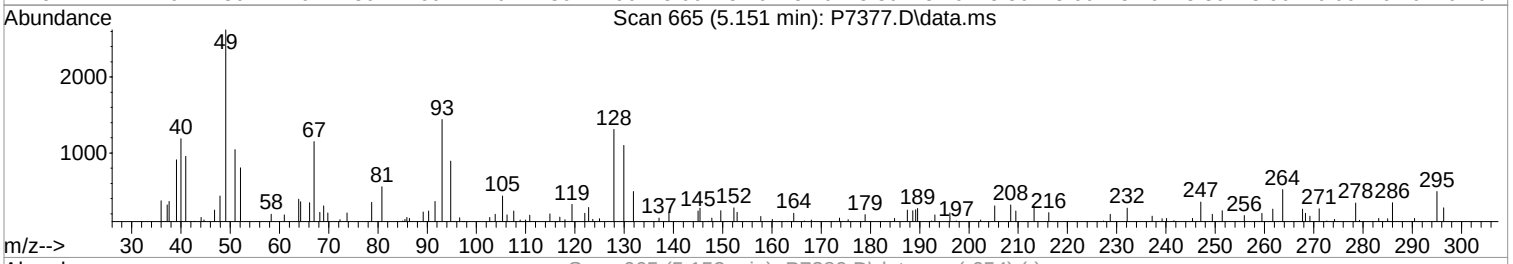
01/05/17

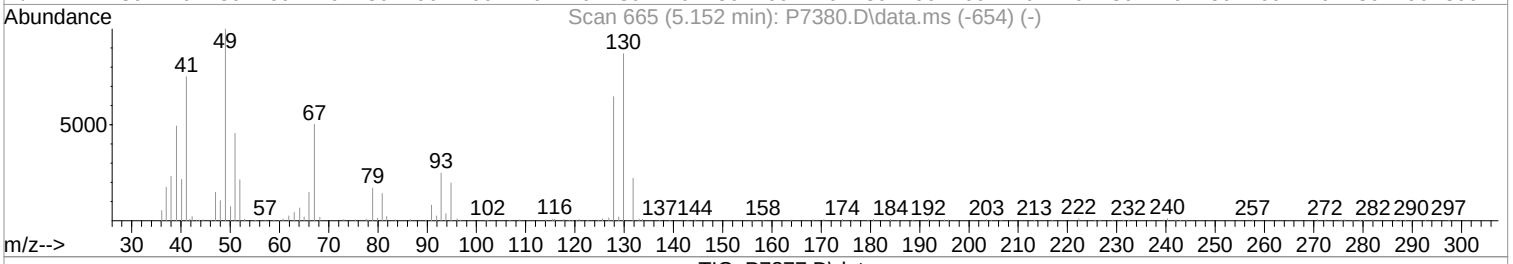
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(38) Methacrylonitrile

5.151min (+0.000) 1.27 ppb

response 2059

Ion	Exp%	Act%
67.00	100	100
41.00	150.60	83.39#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

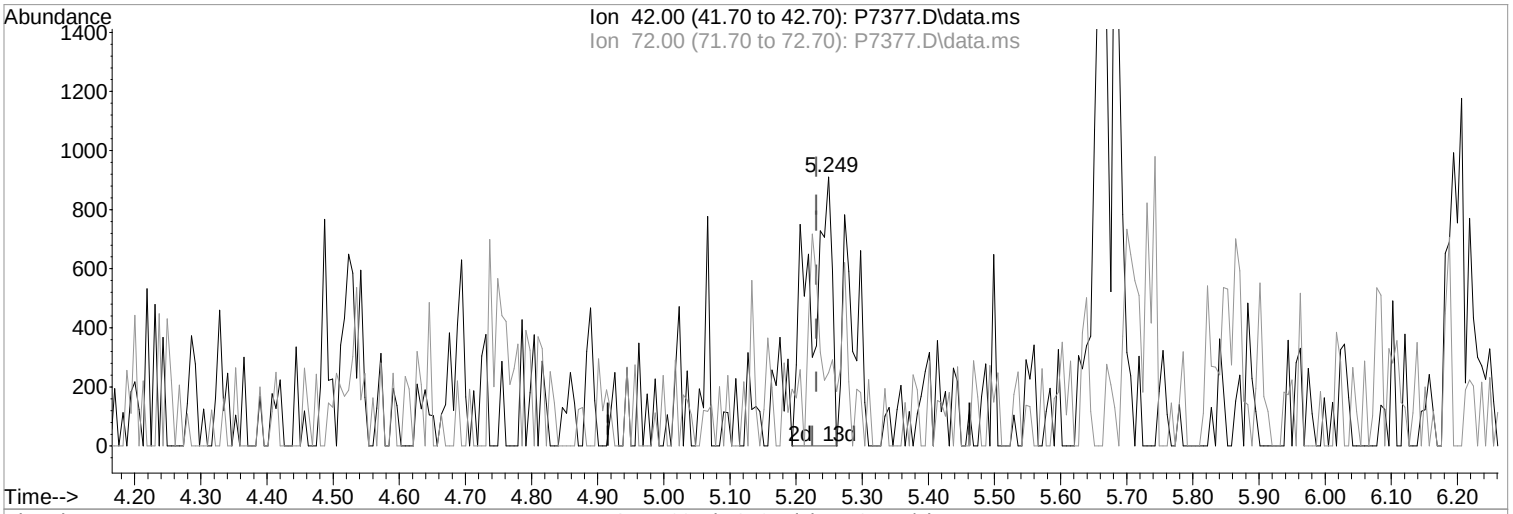
Before

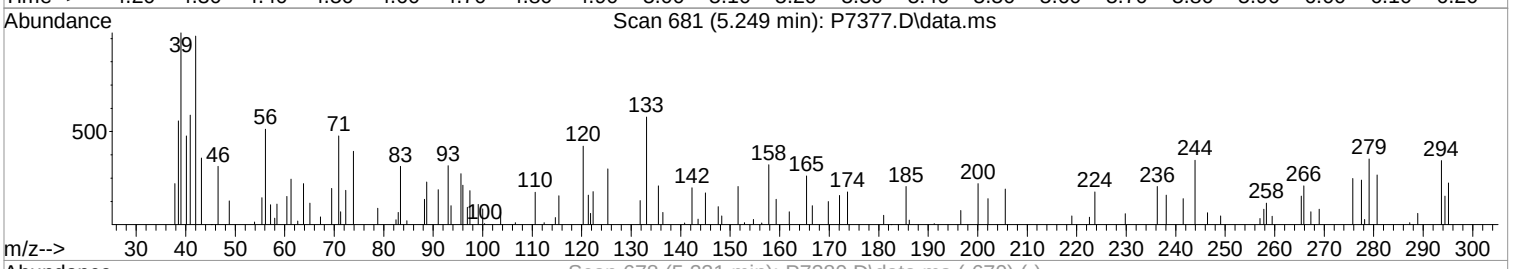
01/05/17

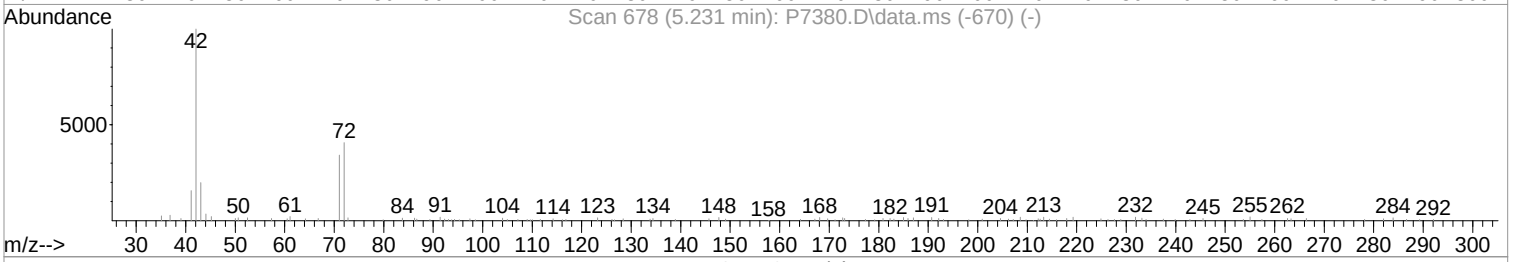
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(39) Tetrahydrofuran

5.249min (+0.018) 2.01 ppb m

response 2107

Ion	Exp%	Act%
42.00	100	100
72.00	39.90	27.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

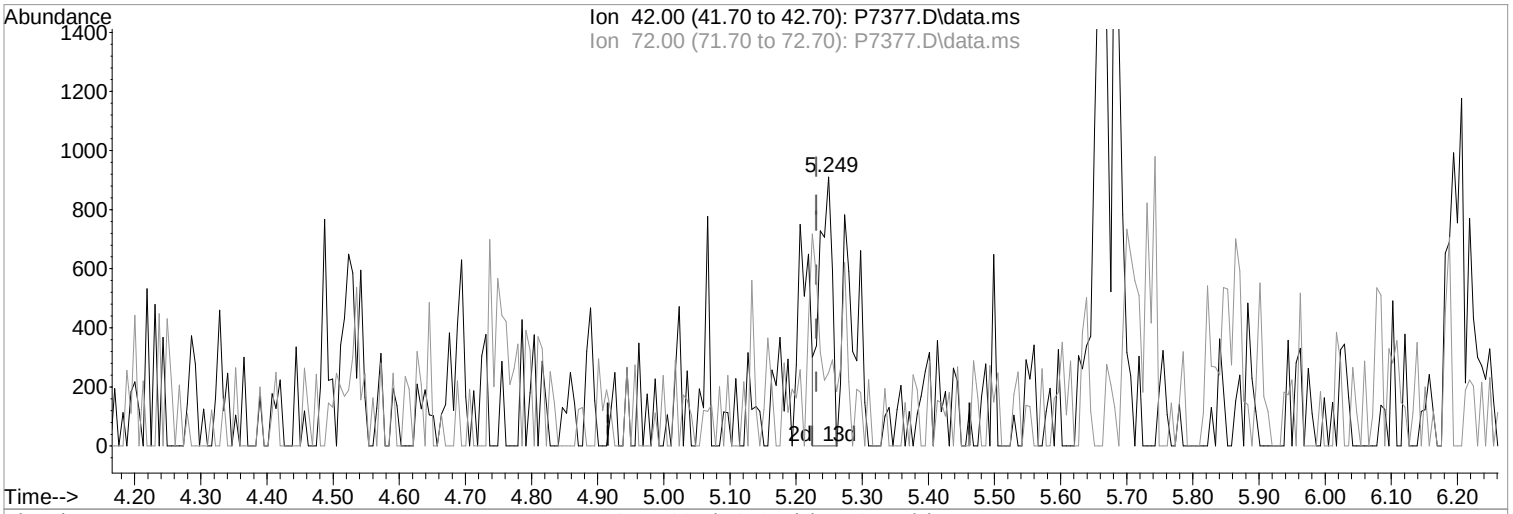
Poor integration.

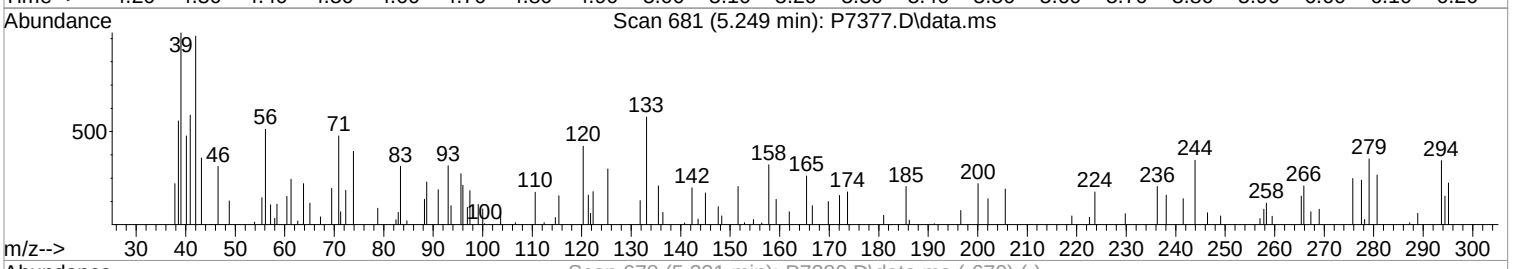
01/05/17

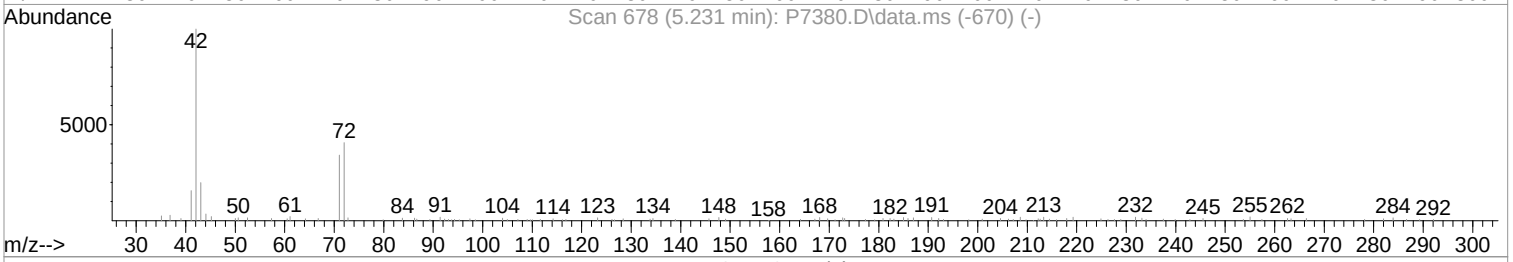
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(39) Tetrahydrofuran

5.249min (+0.018) 1.14 ppb

response 1200

Ion	Exp%	Act%
42.00	100	100
72.00	39.90	27.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

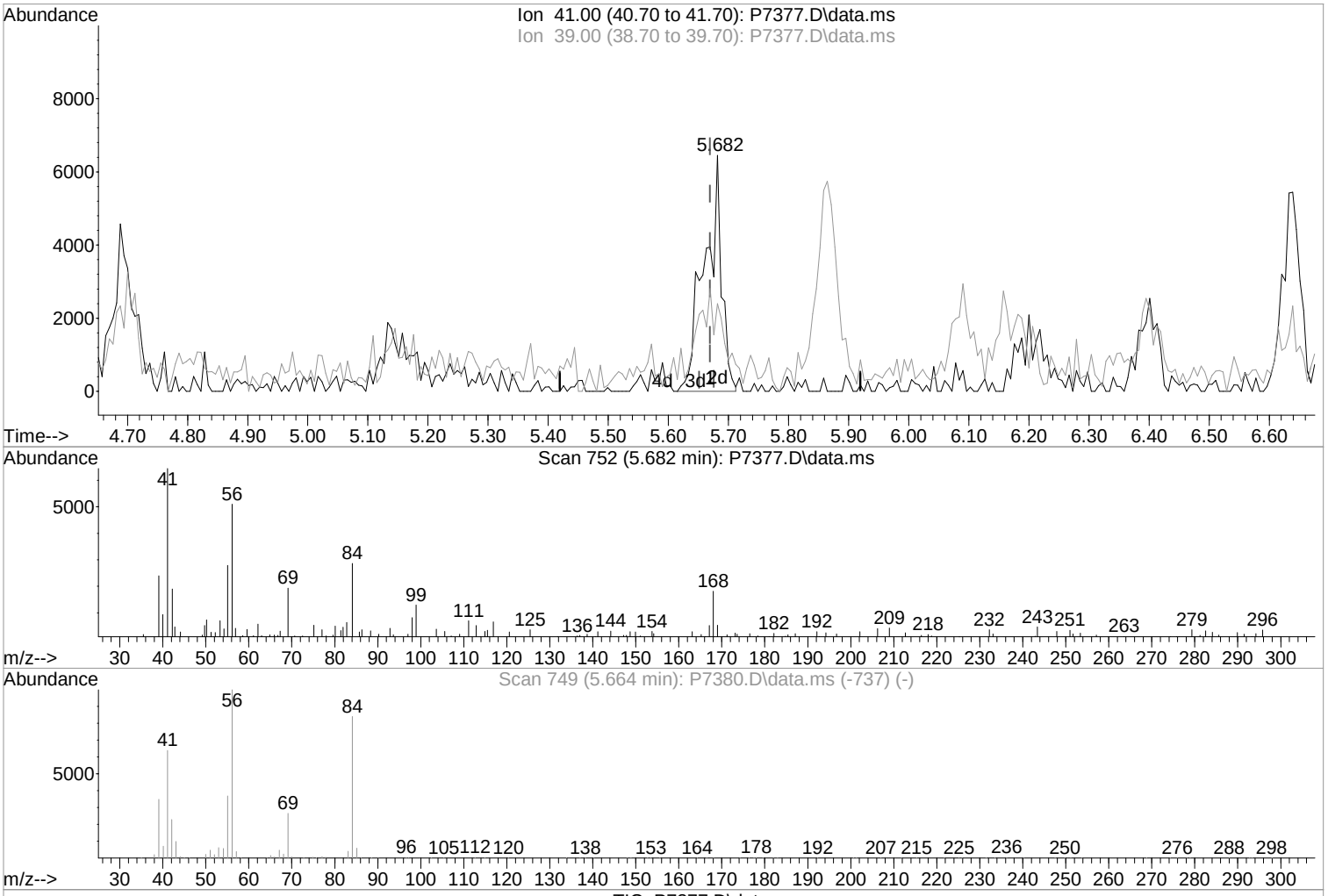
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(44) Cyclohexane (P)

5.682min (+0.012) 2.01 ppb m

response 12813

Ion	Exp%	Act%
41.00	100	100
39.00	55.60	37.22
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

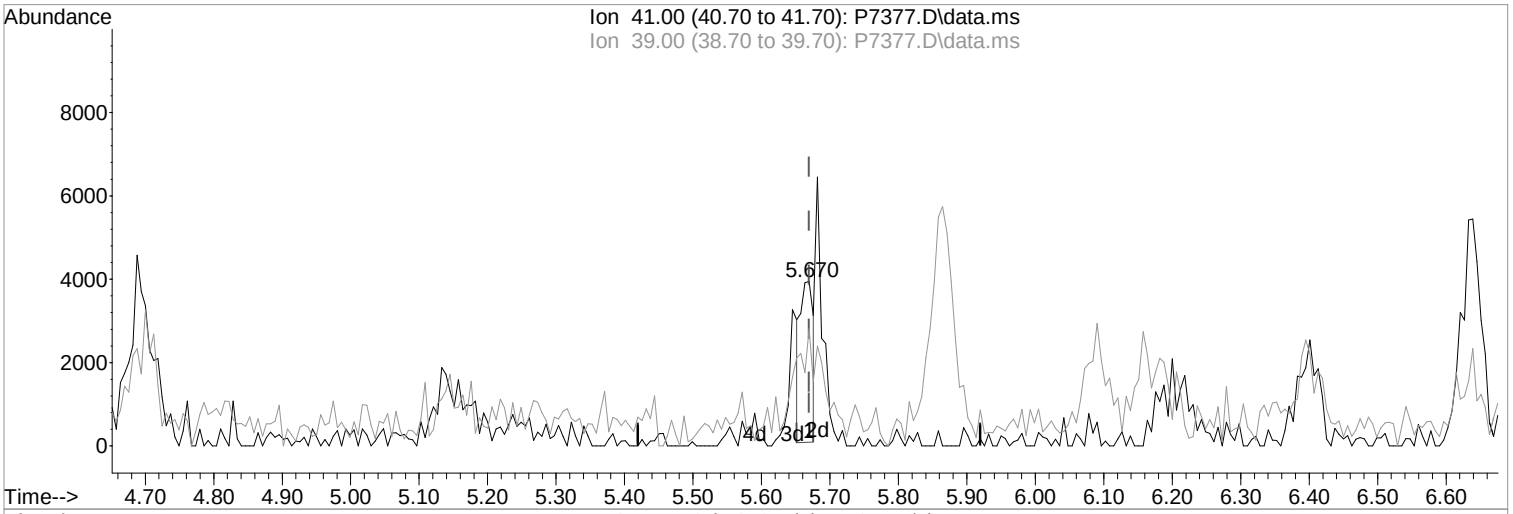
Split Peak

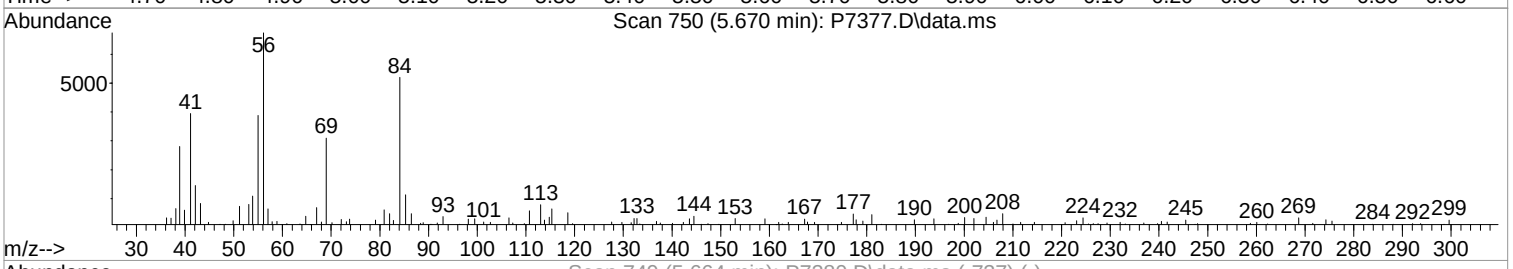
01/05/17

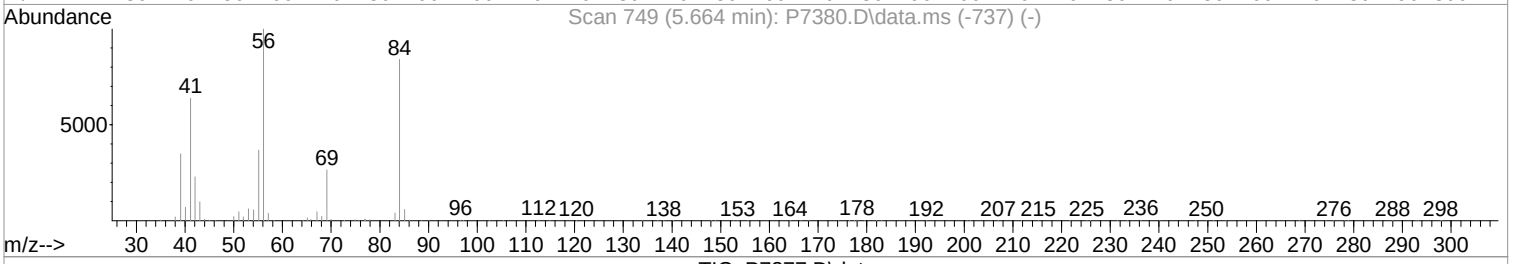
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(44) Cyclohexane (P)

5.670min (+0.000) 0.79 ppb

response 5056

Ion	Exp%	Act%
41.00	100	100
39.00	55.60	71.11
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

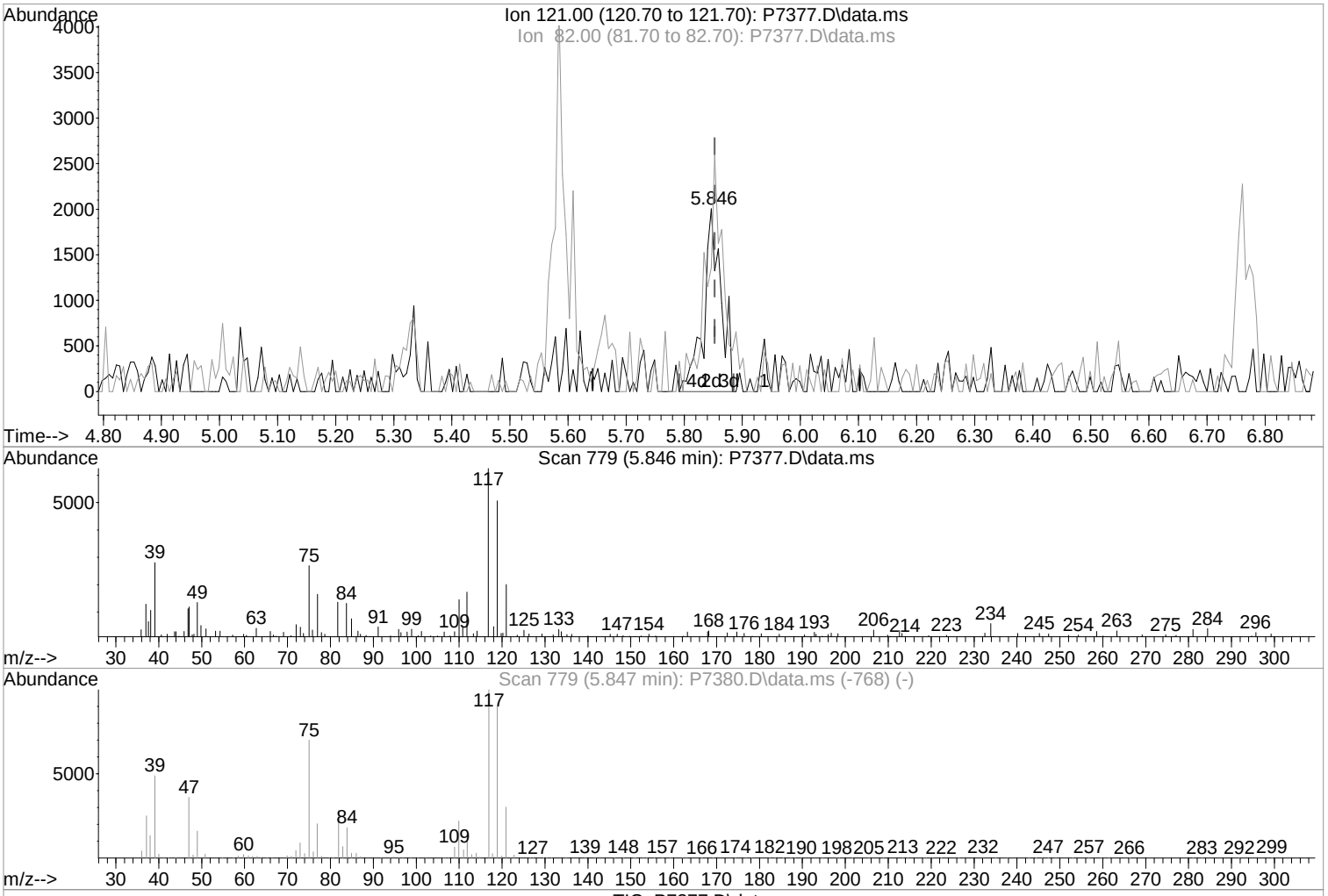
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(46) Carbontetrachloride (P)

5.846min (-0.006) 1.83 ppb m

response 4111

Ion	Exp%	Act%
121.00	100	100
82.00	93.70	67.86#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

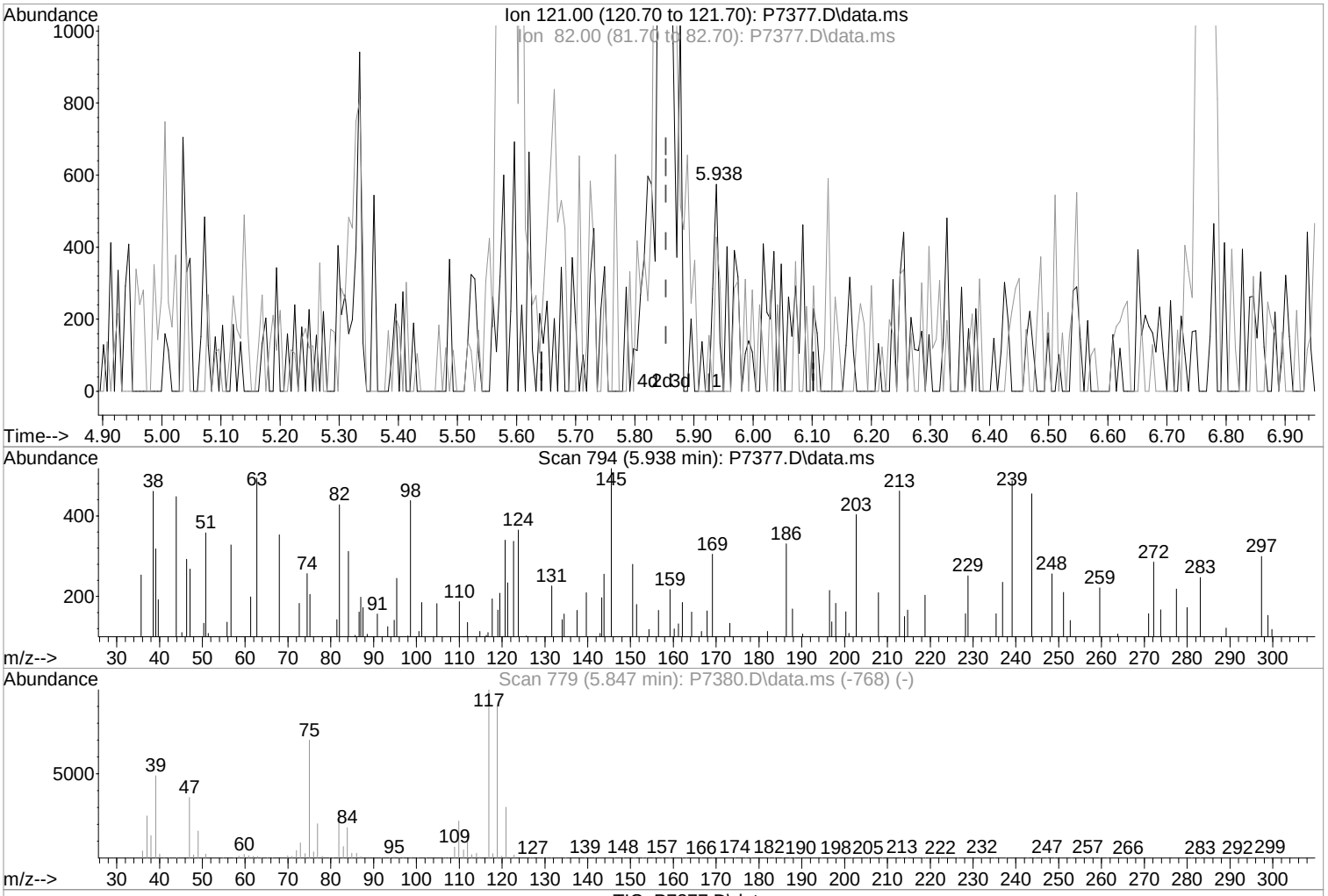
Peak not found.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(46) Carbontetrachloride (P)

5.938min (+0.085) 0.16 ppb

response 363

Ion	Exp%	Act%
121.00	100	100
82.00	93.70	74.56
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

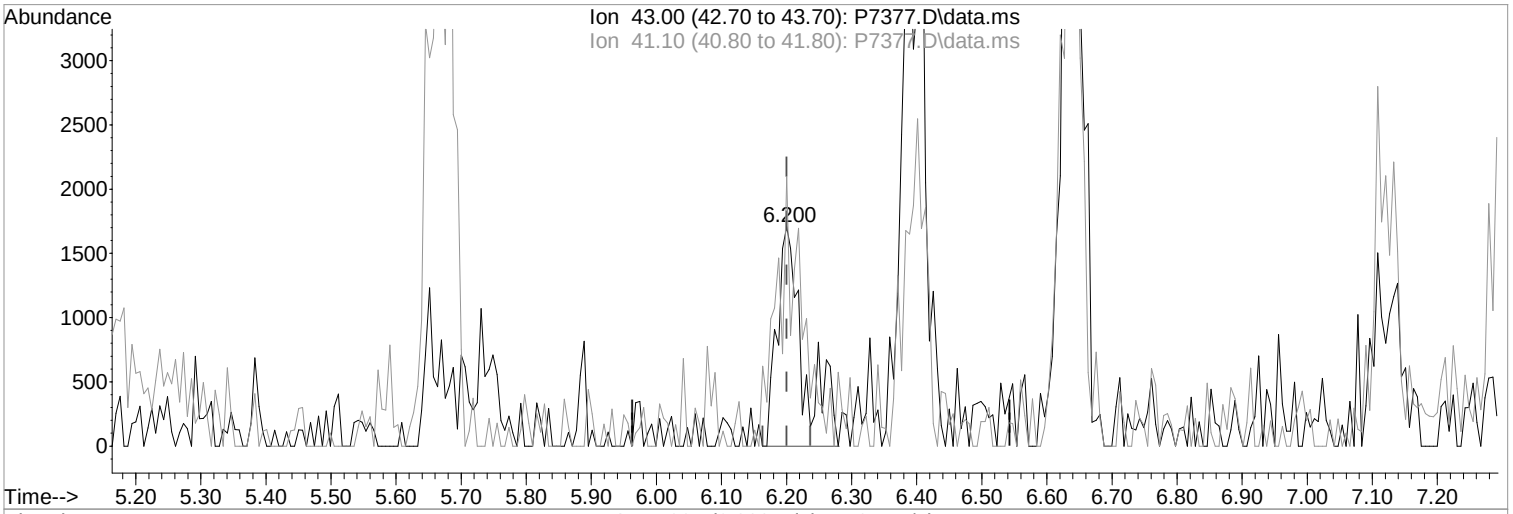
Before

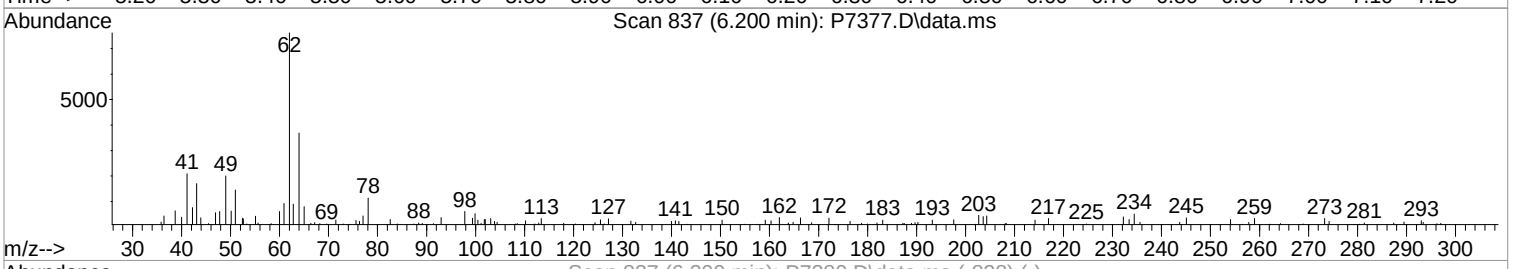
01/05/17

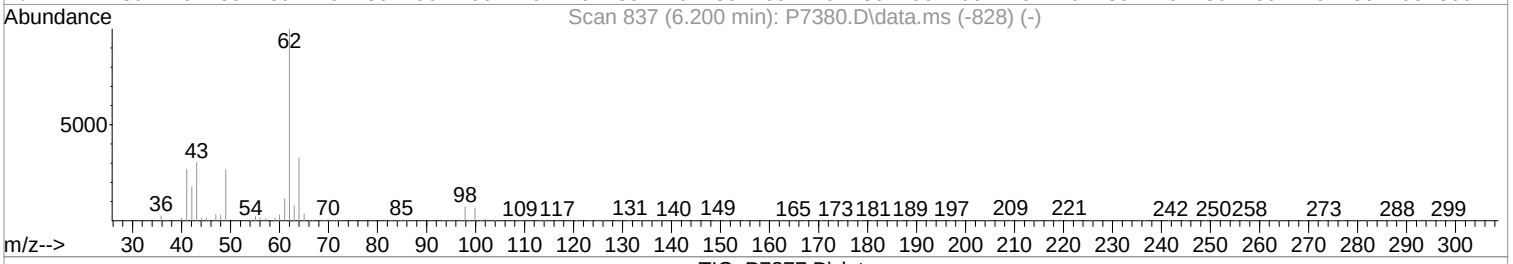
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(51) Iso-Butyl Alcohol

6.200min (+0.000) 36.96 ppb m

response 4819

Ion	Exp%	Act%
43.00	100	100
41.10	88.60	122.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

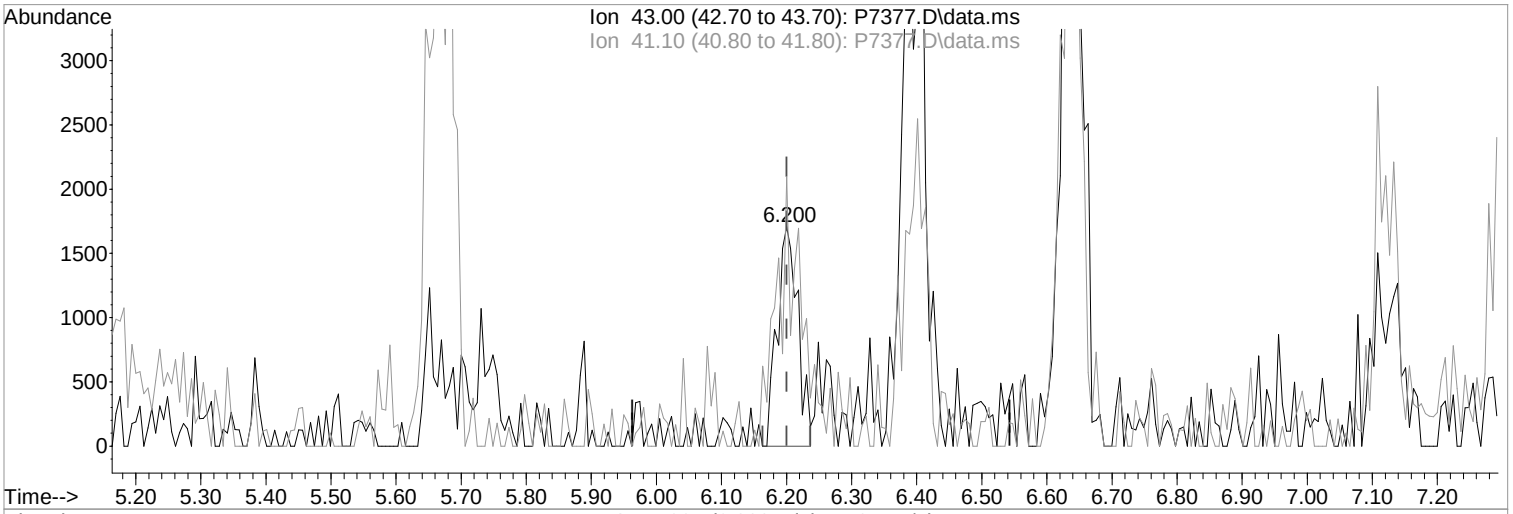
Split Peak

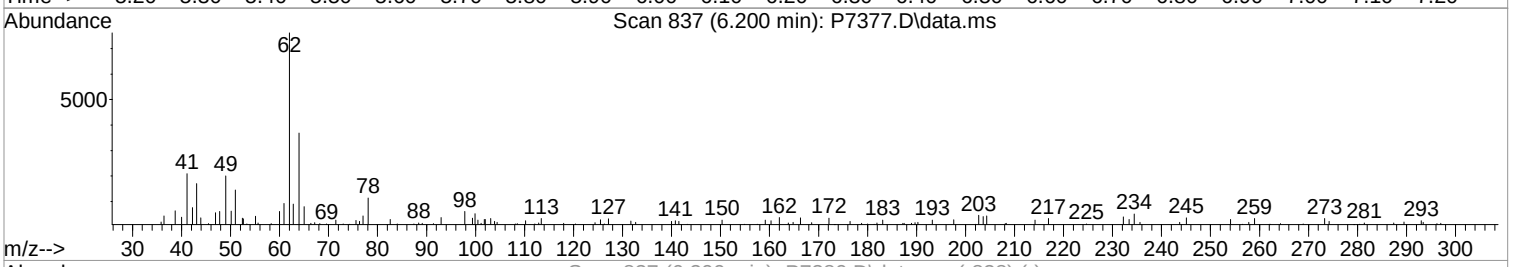
01/05/17

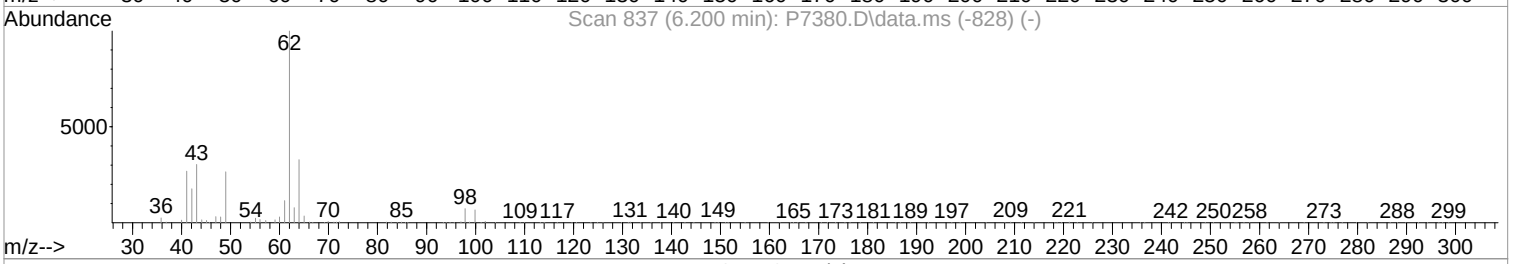
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(51) Iso-Butyl Alcohol

6.200min (+0.000) 29.00 ppb

response 3781

Ion	Exp%	Act%
43.00	100	100
41.10	88.60	122.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

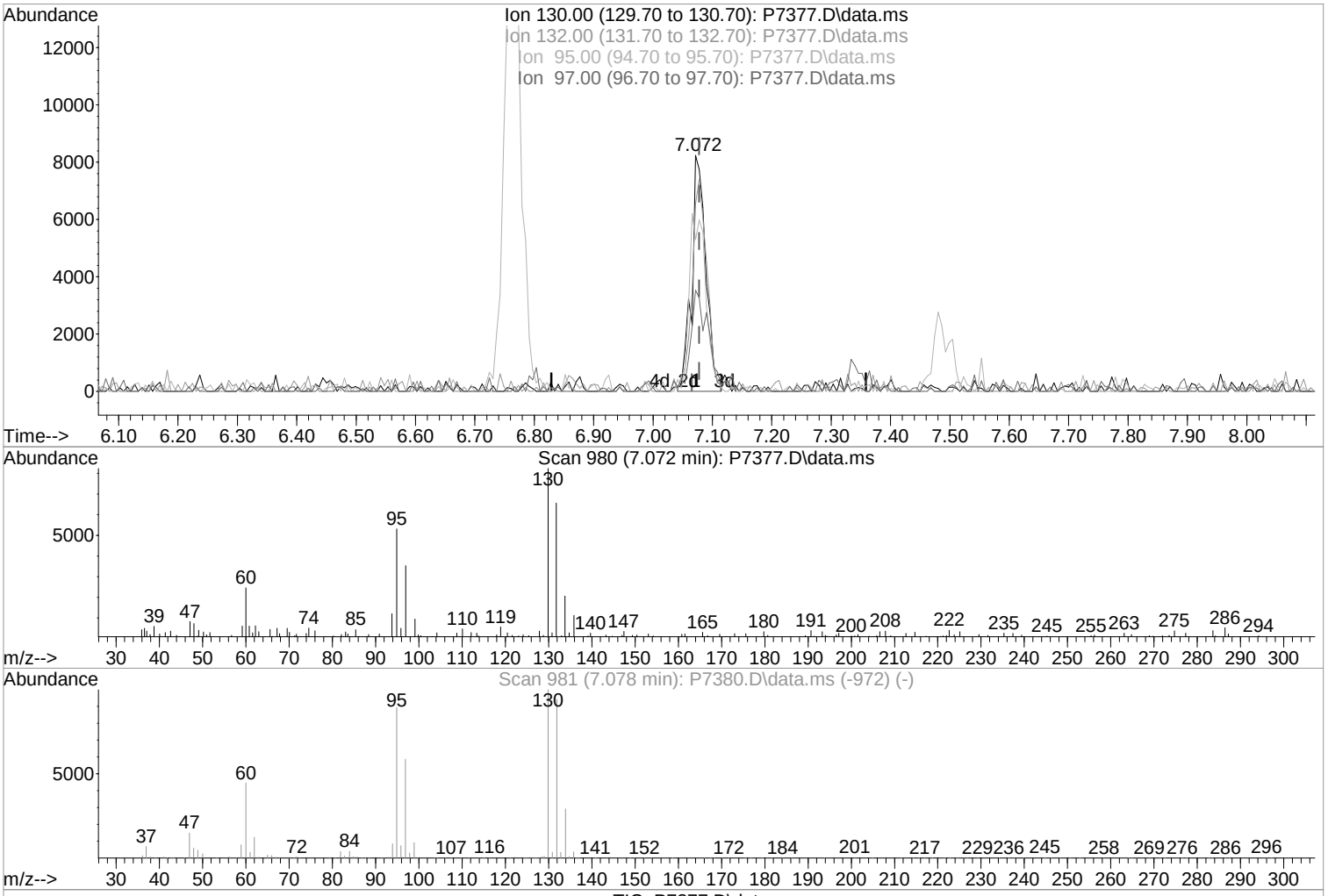
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(54) Trichloroethene (P)

7.072min (-0.006) 2.20 ppb m

response 13722

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	79.56
95.00	89.40	64.44#
97.00	58.80	42.91

Manual Integration:

After

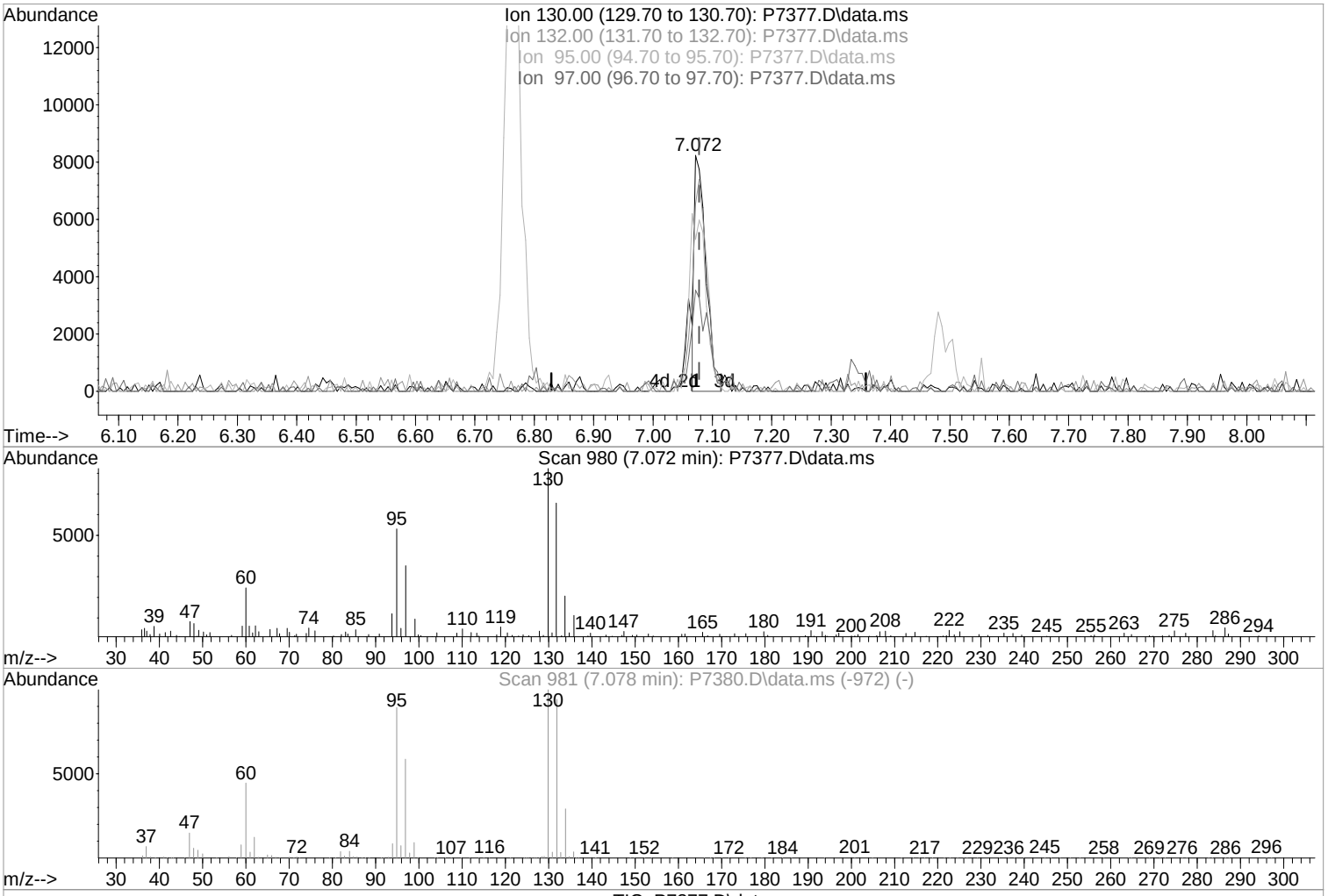
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(54) Trichloroethene (P)

7.072min (-0.006) 1.77 ppb

response 11082

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	79.56
95.00	89.40	64.44#
97.00	58.80	42.91

Manual Integration:

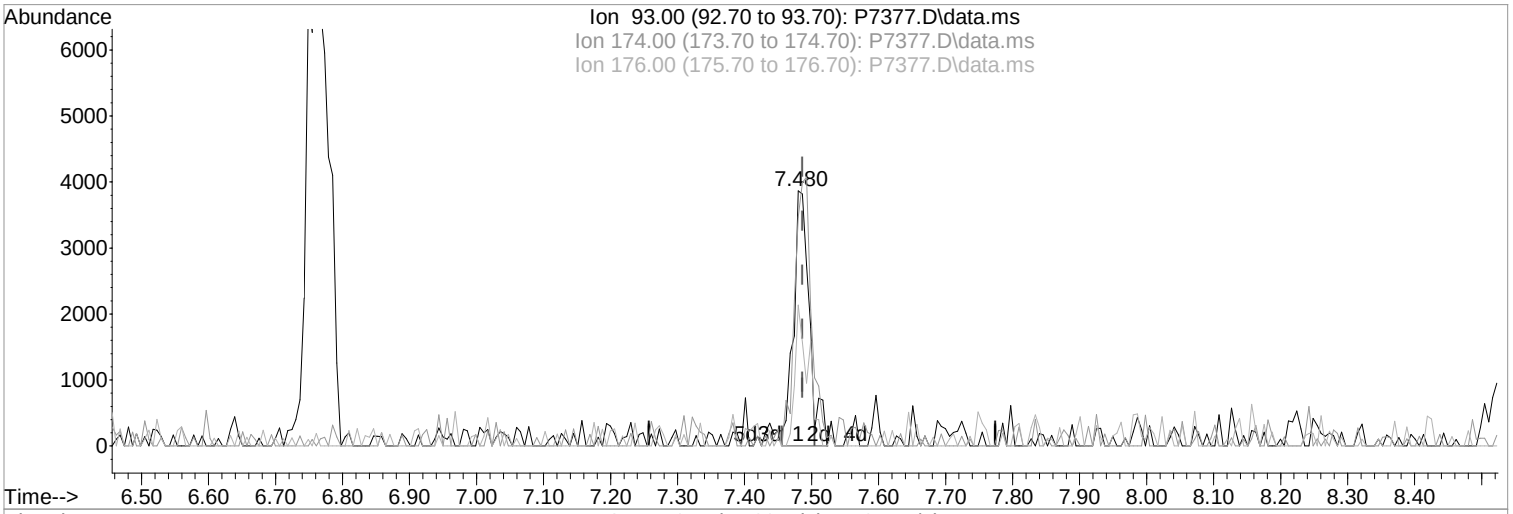
Before

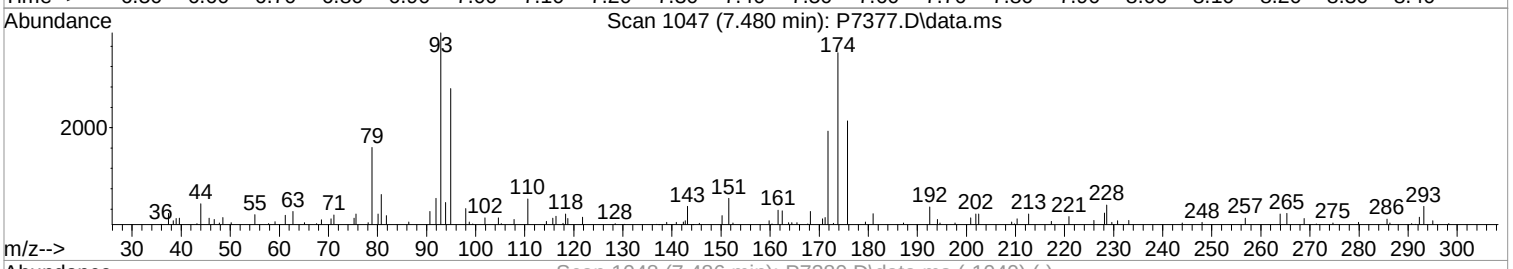
01/05/17

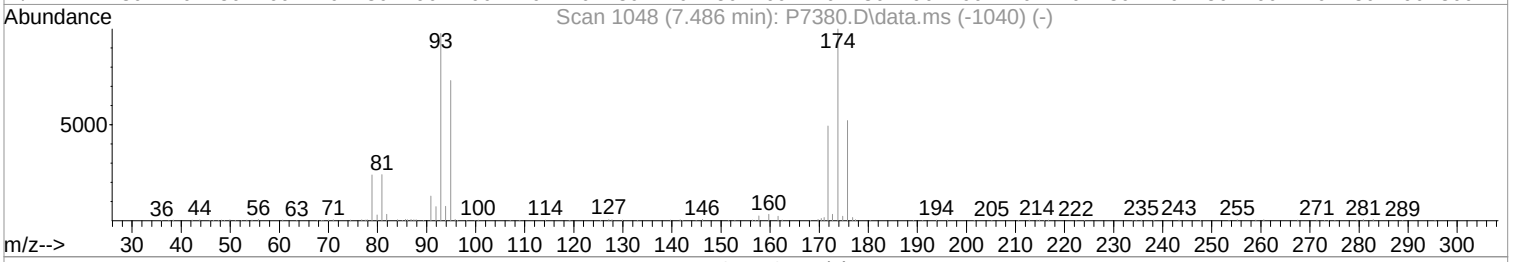
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(57) Dibromomethane

7.480min (-0.006) 2.07 ppb m

response 6343

Ion	Exp%	Act%
93.00	100	100
174.00	102.80	89.80
176.00	53.50	55.23
0.00	0.00	0.00

Manual Integration:

After

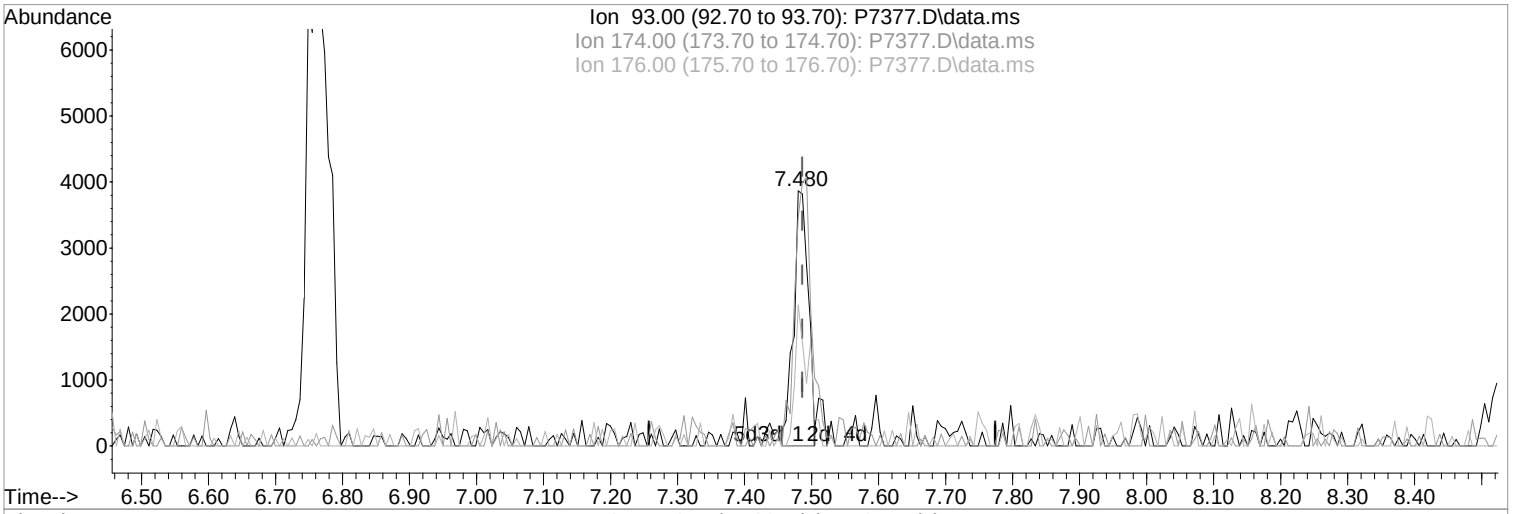
Split Peak

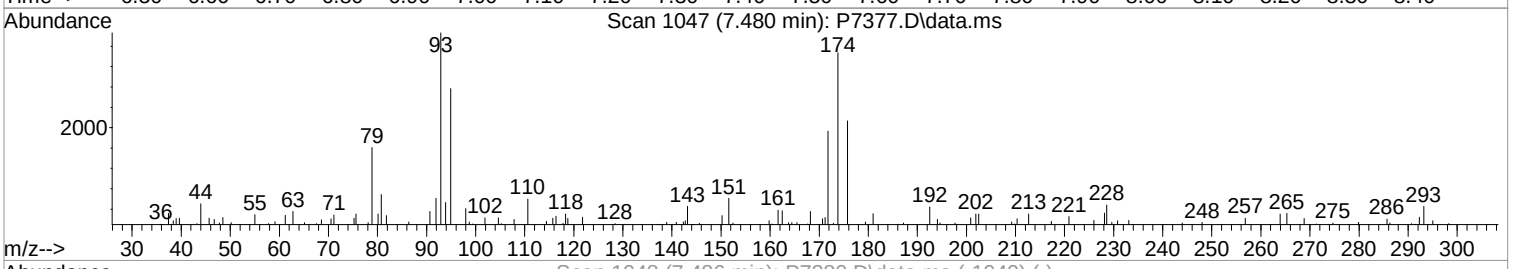
01/05/17

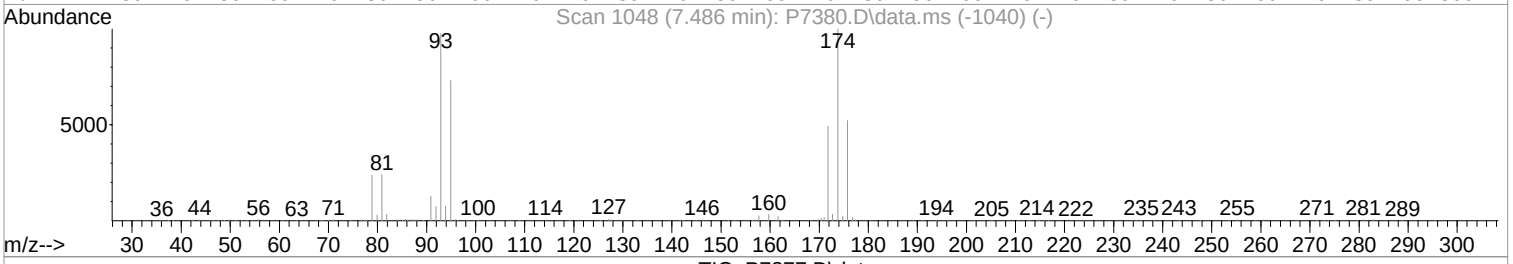
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(57) Dibromomethane

7.480min (-0.006) 1.90 ppb

response 5824

Ion	Exp%	Act%
93.00	100	100
174.00	102.80	89.80
176.00	53.50	55.23
0.00	0.00	0.00

Manual Integration:

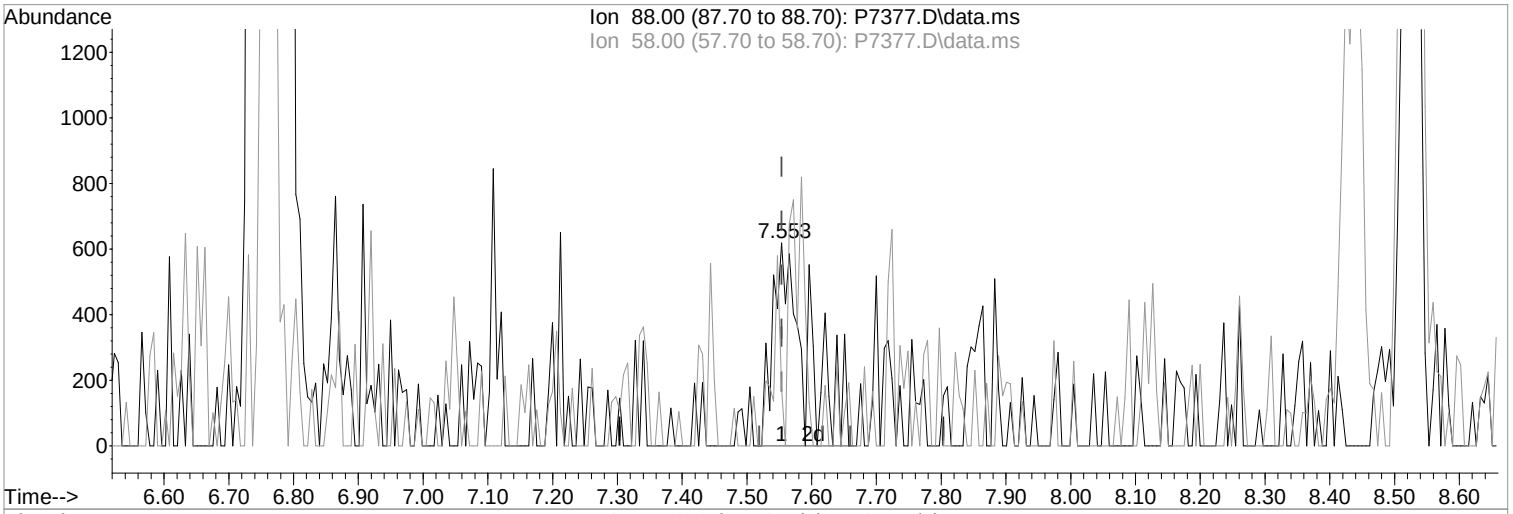
Before

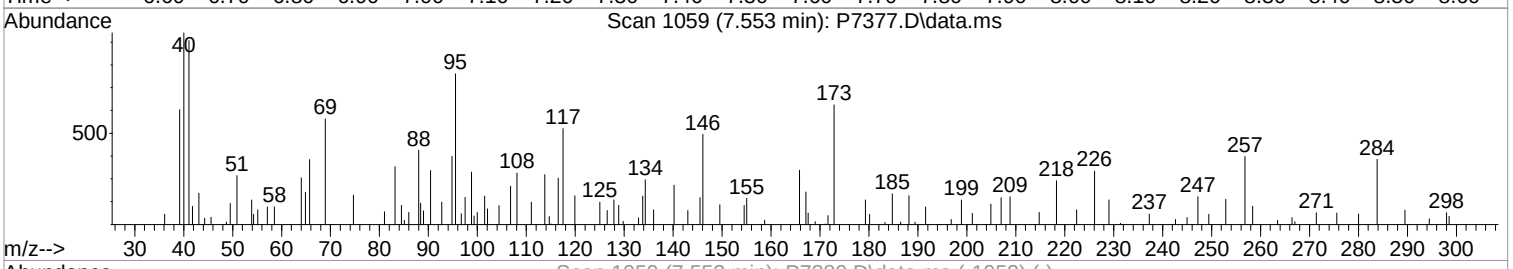
01/05/17

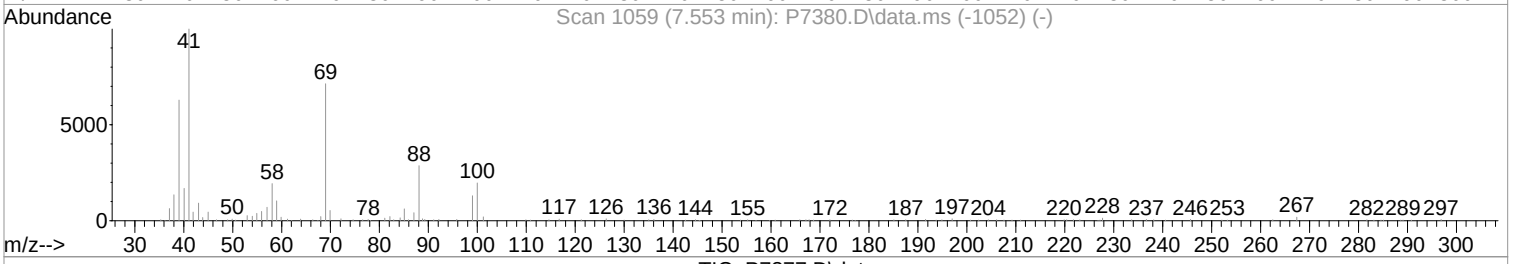
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.000) 52.76 ppb m

response 2312

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	41.41#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

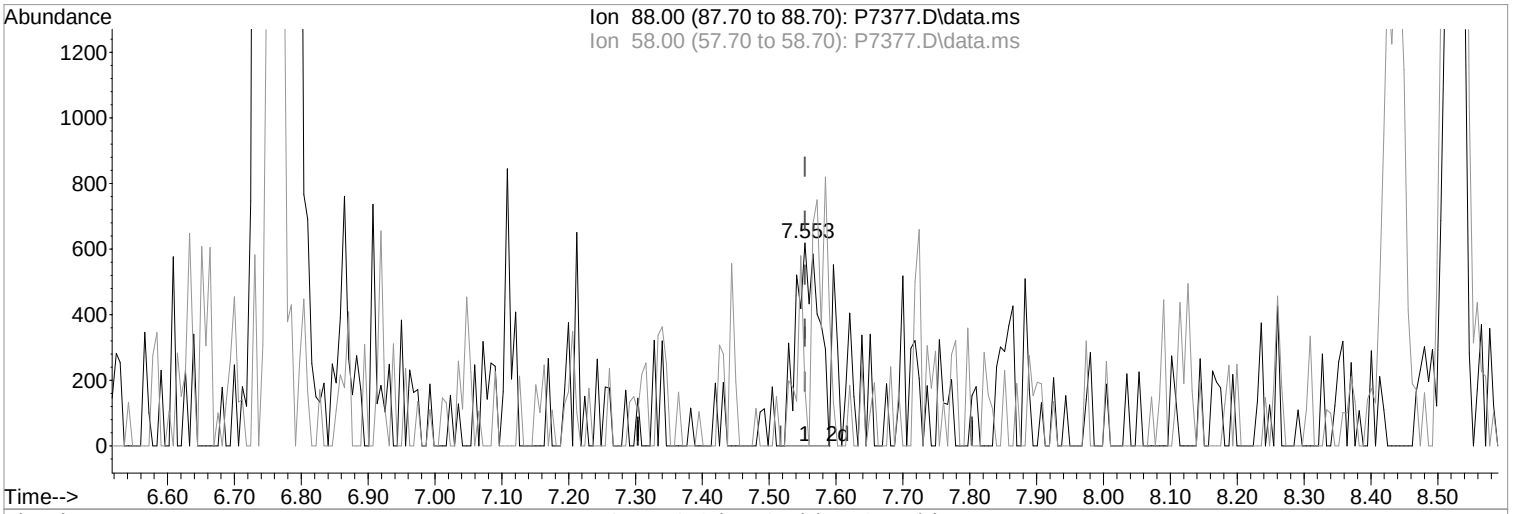
Poor integration.

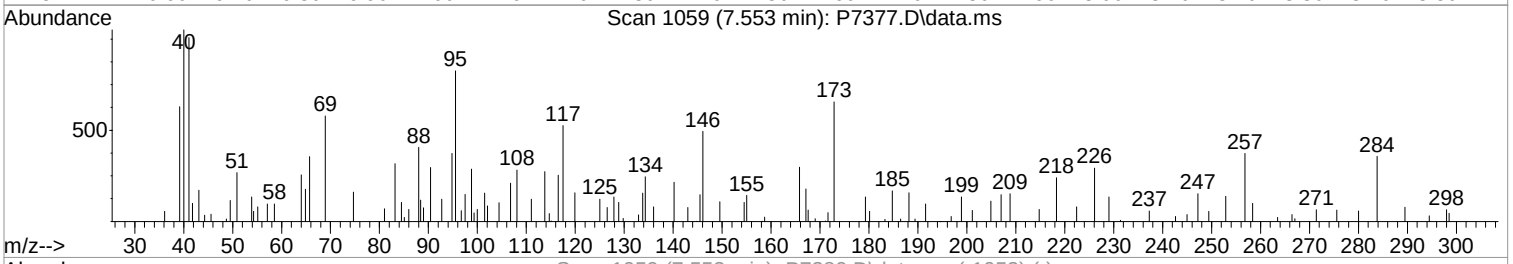
01/05/17

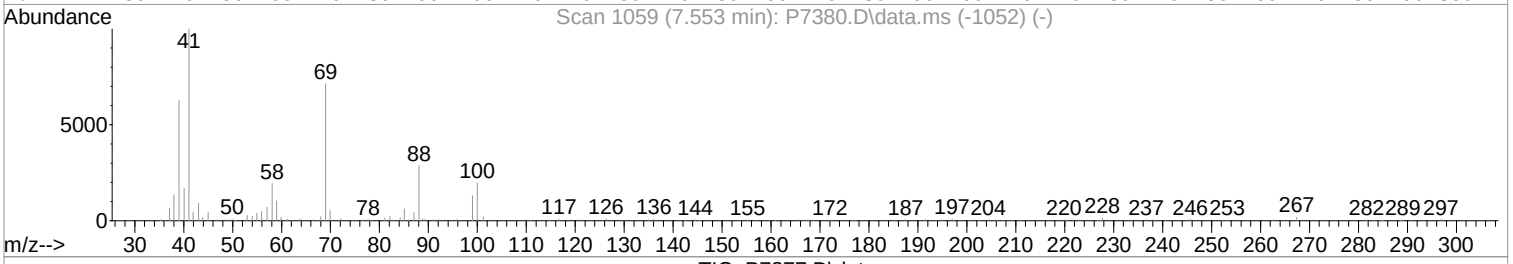
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.000) 33.95 ppb

response 1488

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	28.43#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

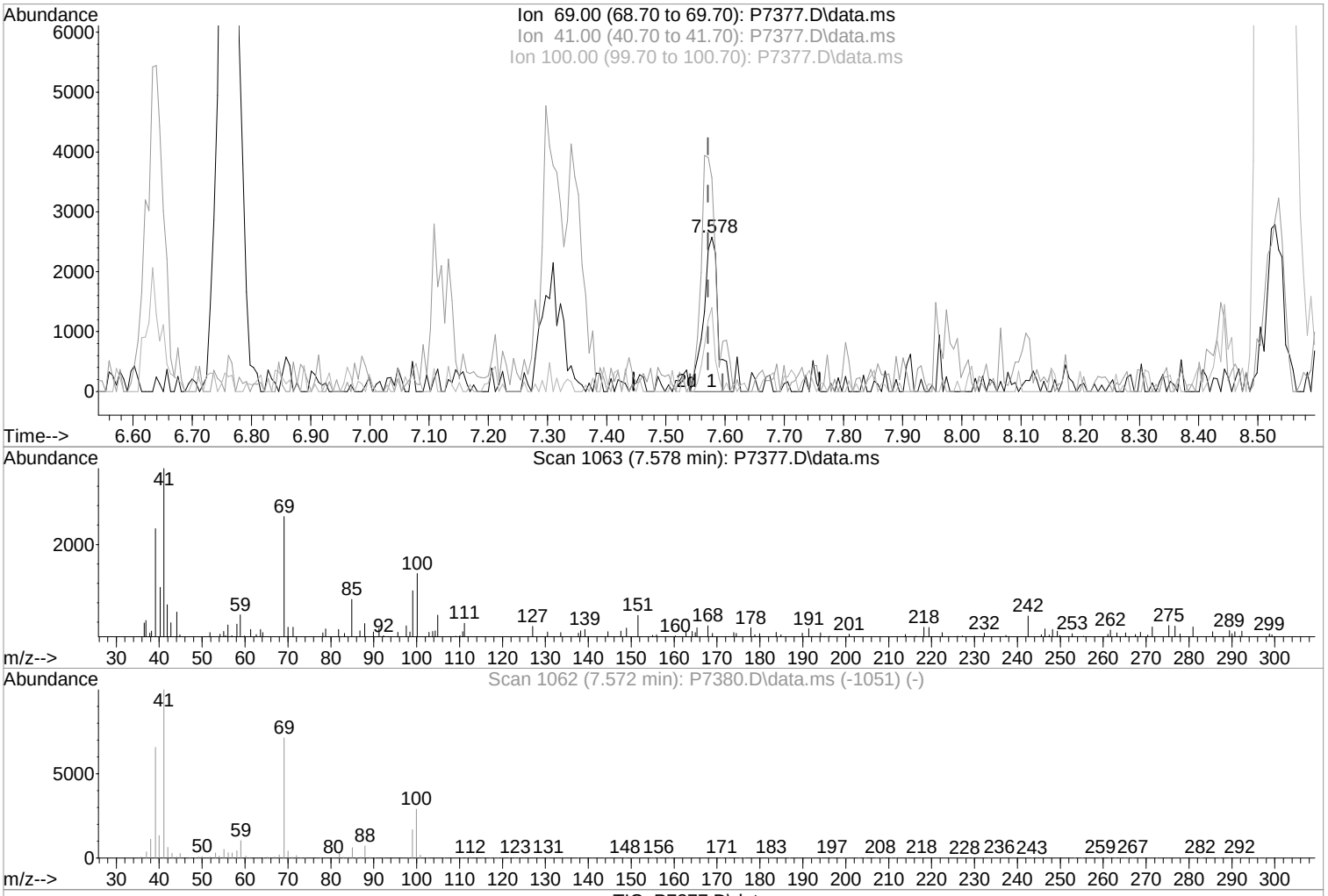
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(59) Methyl Methacrylate

7.578min (+0.006) 1.49 ppb m

response 4337

Ion	Exp%	Act%
69.00	100	100
41.00	141.20	138.59
100.00	40.80	54.31
0.00	0.00	0.00

Manual Integration:

After

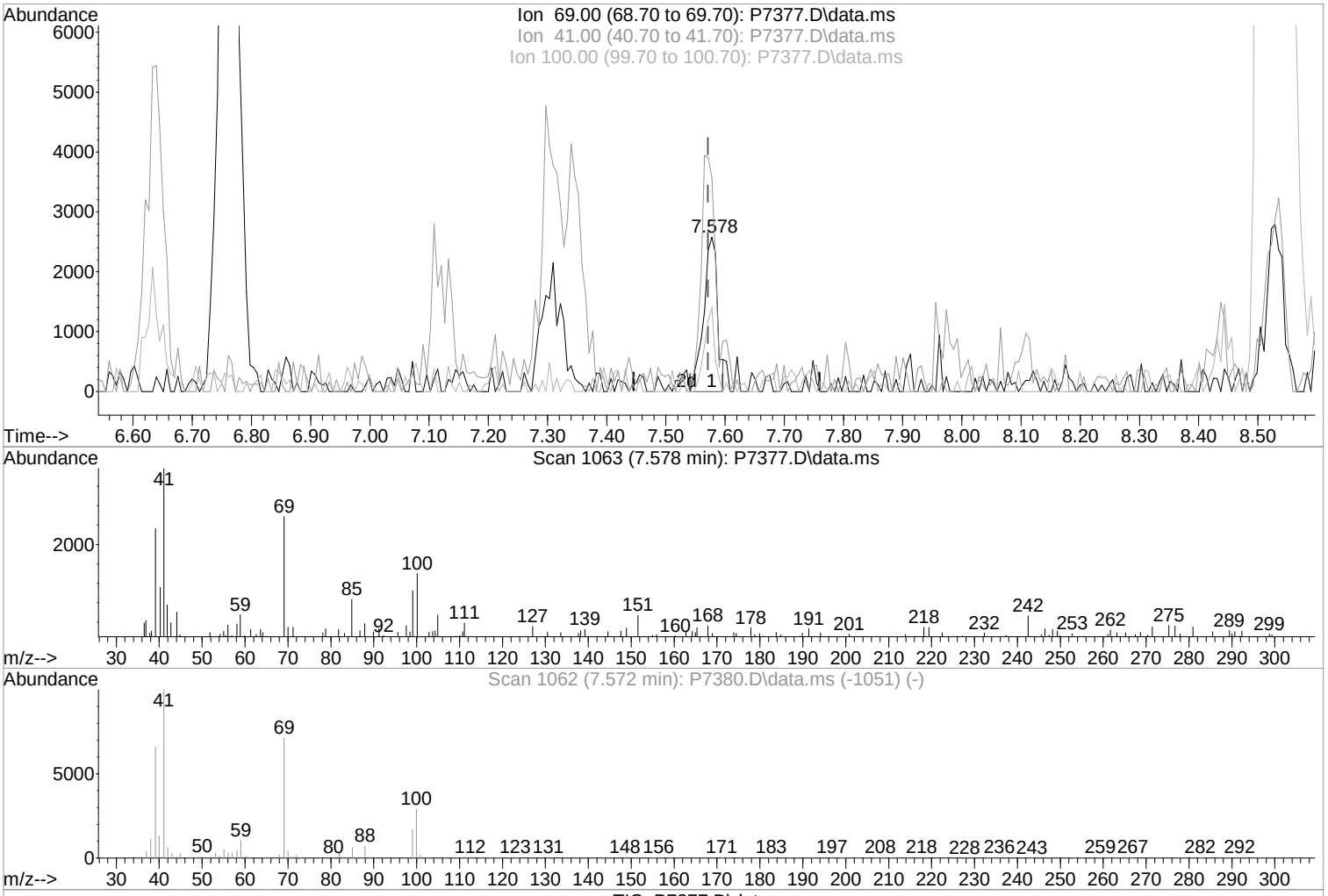
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(59) Methyl Methacrylate

7.578min (+0.006) 1.43 ppb

response 4151

Ion	Exp%	Act%
69.00	100	100
41.00	141.20	138.59
100.00	40.80	54.31
0.00	0.00	0.00

Manual Integration:

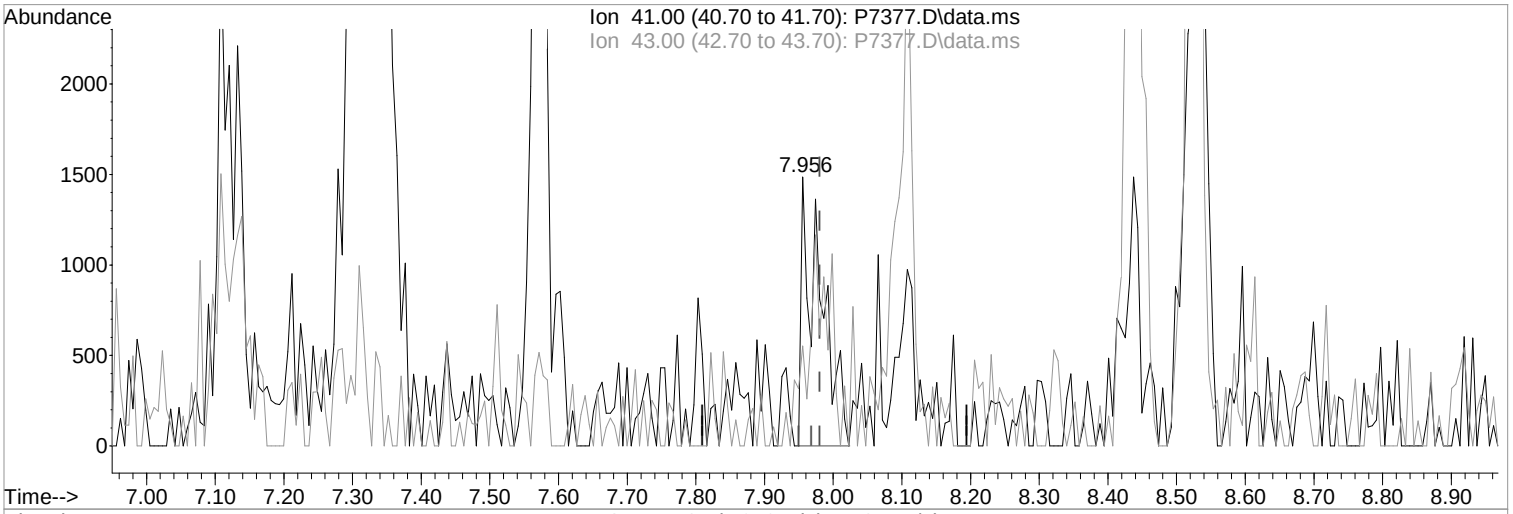
Before

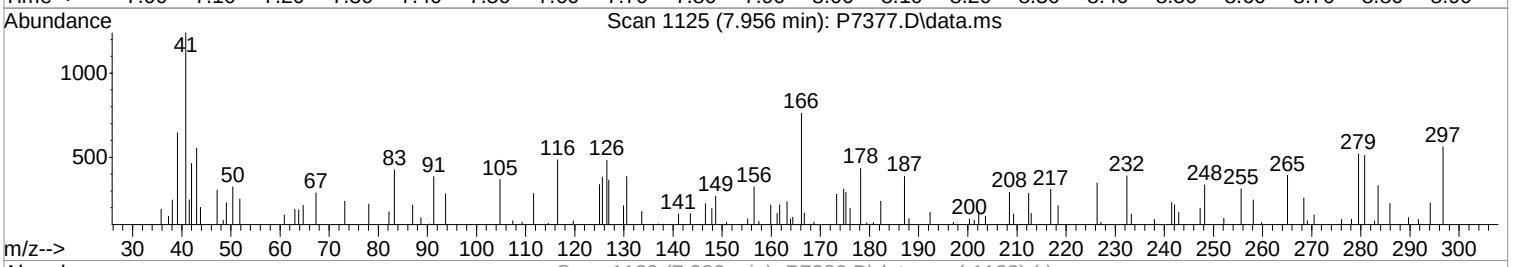
01/05/17

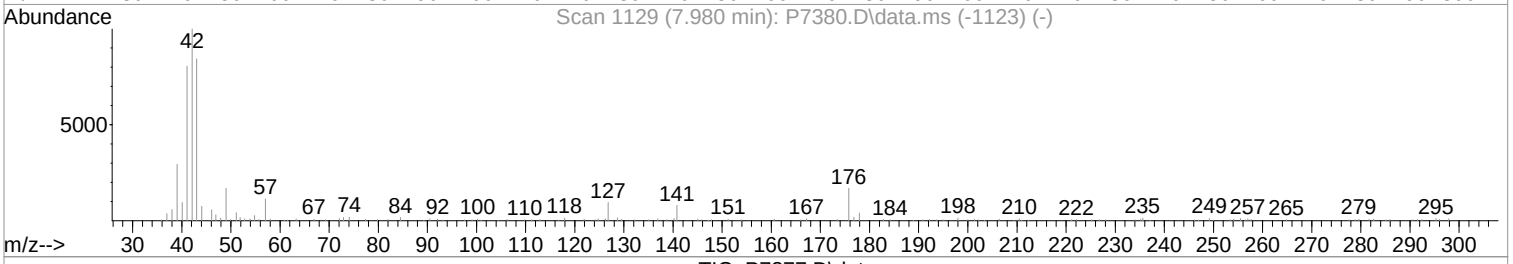
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(61) 2-Nitropropane

7.956min (-0.024) 4.99 ppb m

response 2897

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	44.52#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

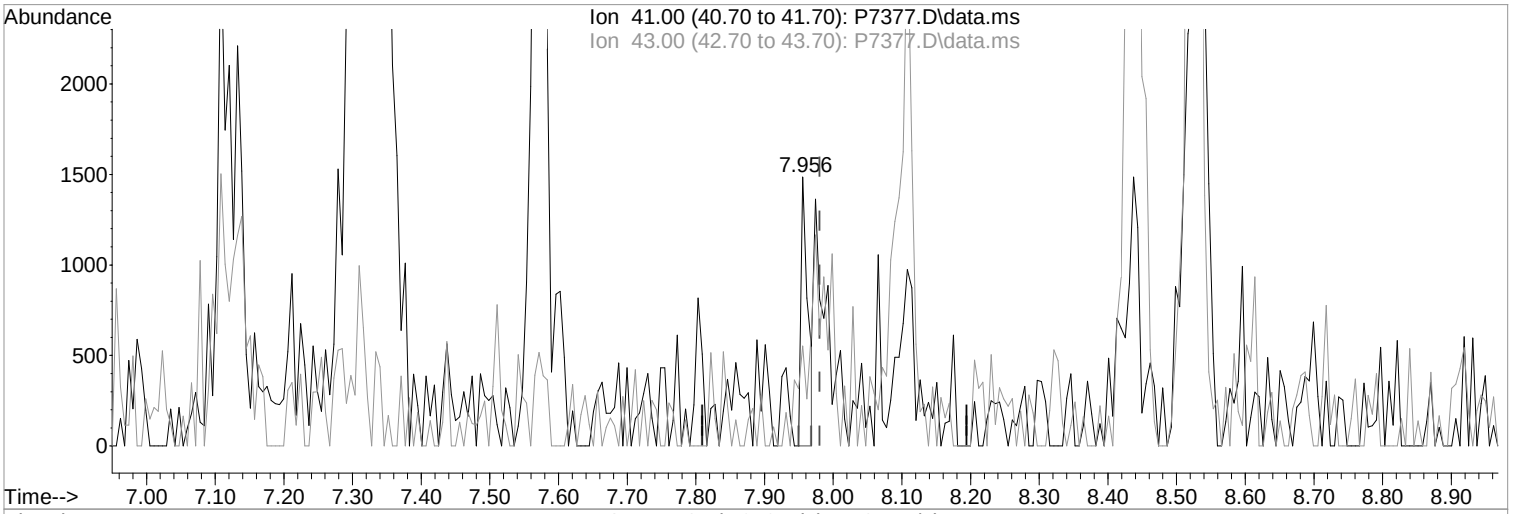
Split Peak

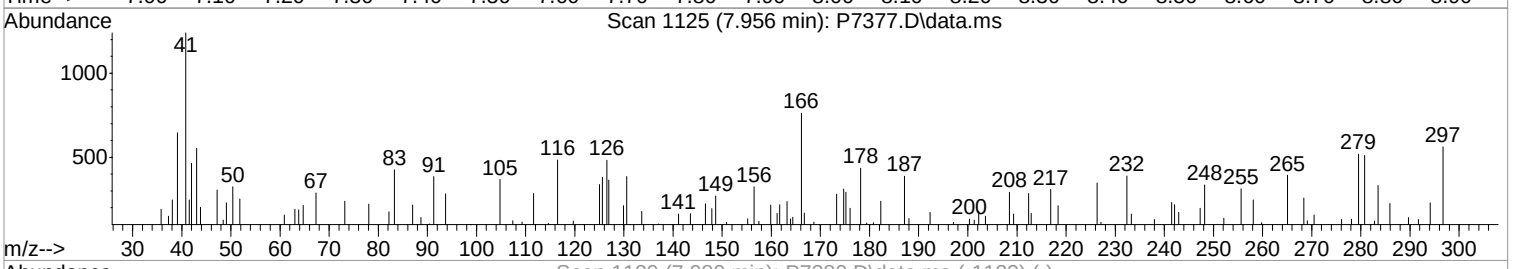
01/05/17

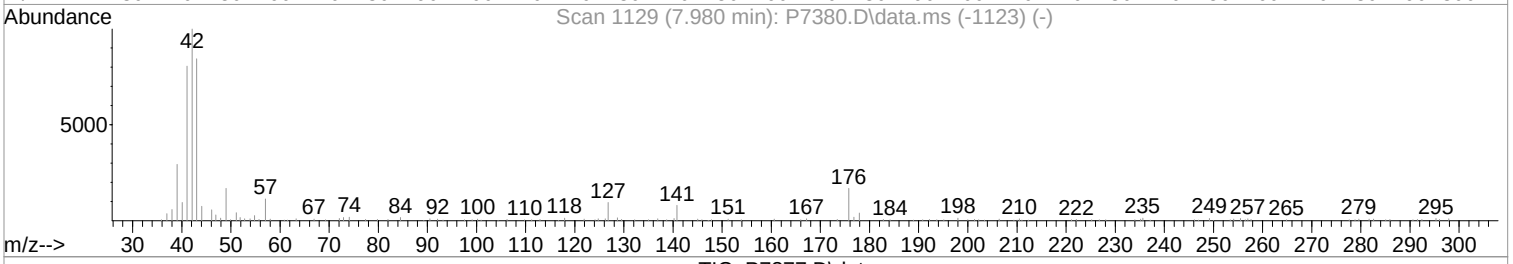
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(61) 2-Nitropropane

7.956min (-0.024) 1.79 ppb

response 1043

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	37.15#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

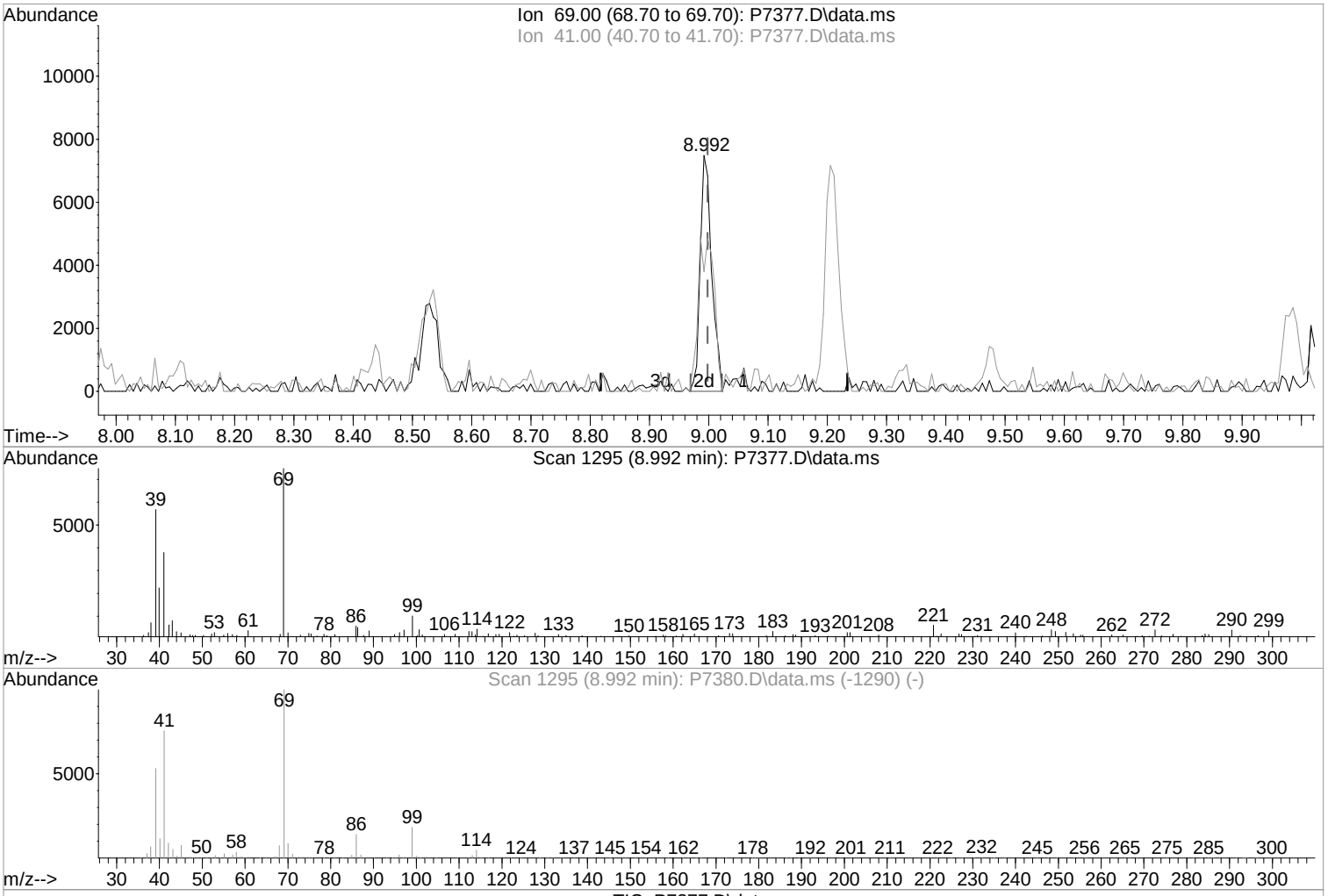
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(68) Ethyl Methacrylate

8.992min (-0.006) 1.80 ppb m

response 9975

Ion	Exp%	Act%
69.00	100	100
41.00	75.90	50.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

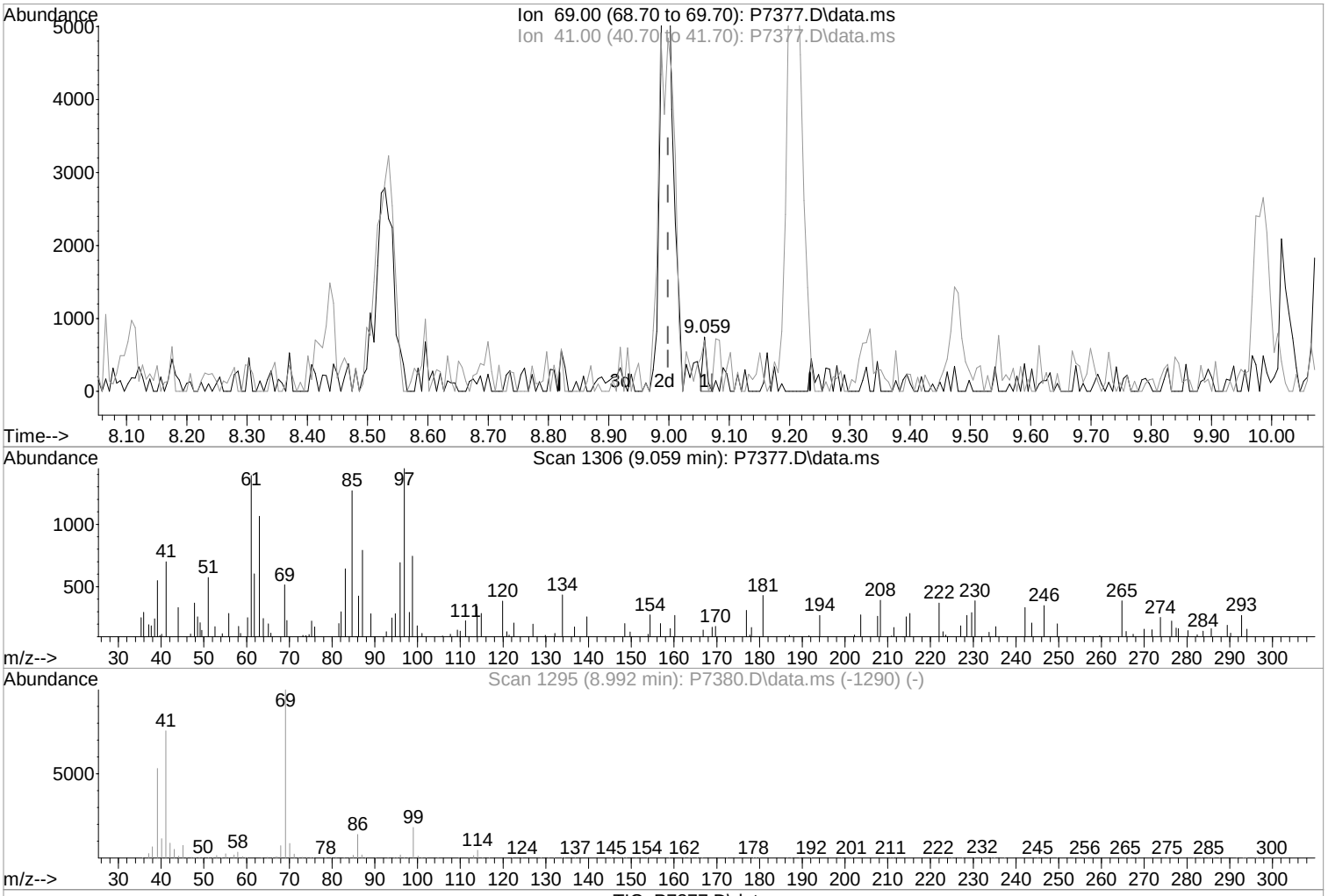
Peak not found.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(68) Ethyl Methacrylate

9.059min (+0.061) 0.06 ppb

response 315

Ion	Exp%	Act%
69.00	100	100
41.00	75.90	93.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

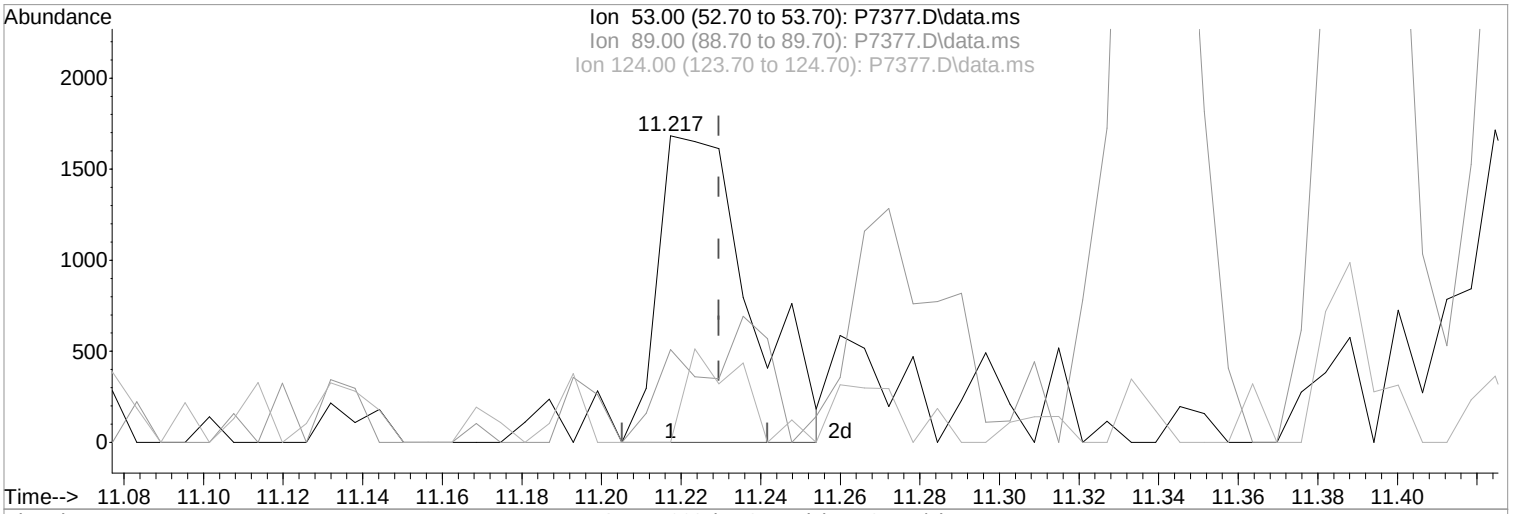
Before

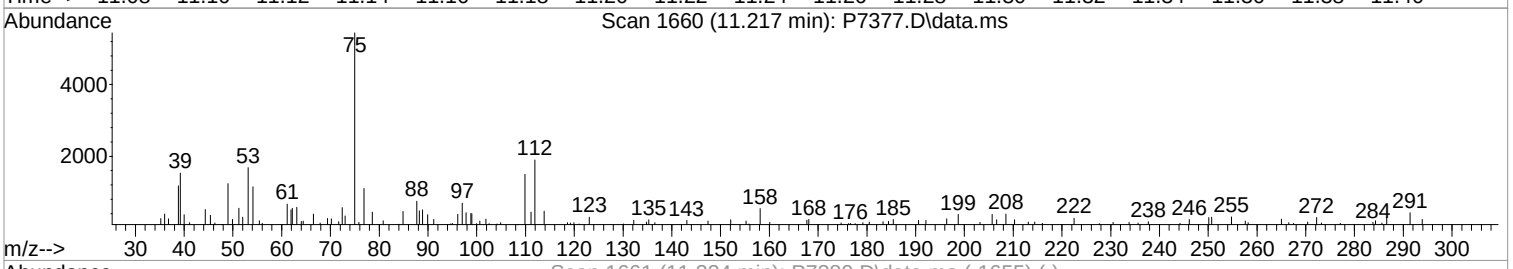
01/05/17

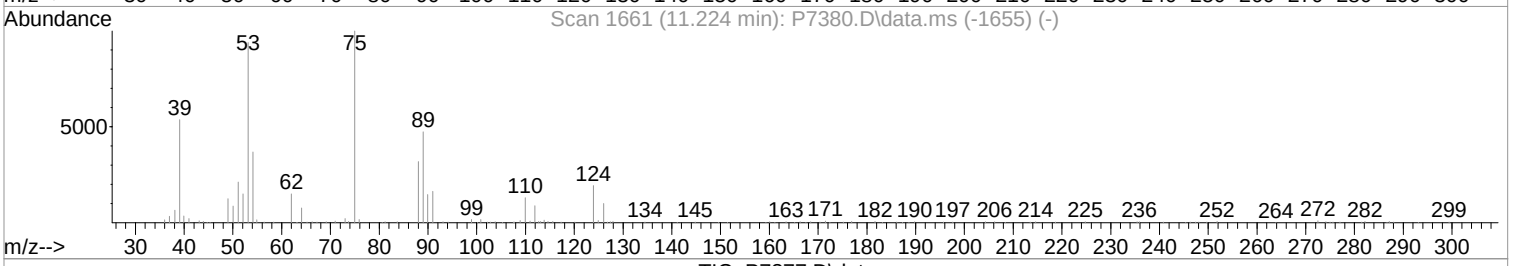
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(91) trans-1,4-Dichloro-2-Butene

11.217min (-0.012) 1.96 ppb m

response 2705

Ion	Exp%	Act%
53.00	100	100
89.00	50.40	30.24#
124.00	20.60	0.00#
0.00	0.00	0.00

Manual Integration:

After

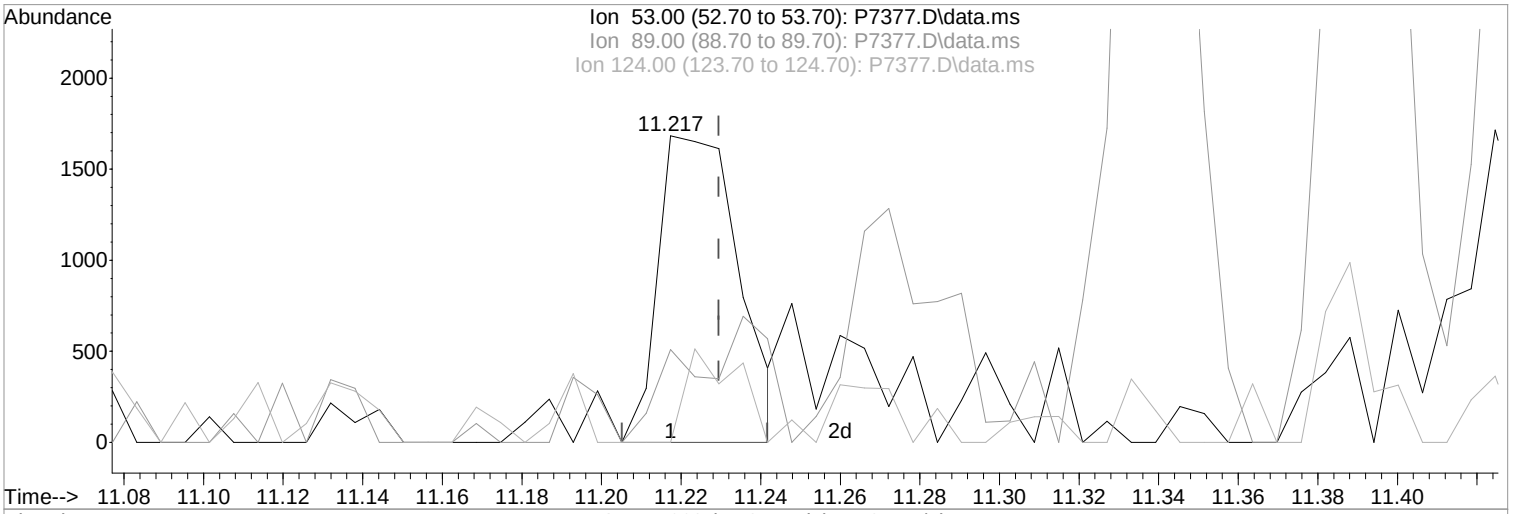
Poor integration.

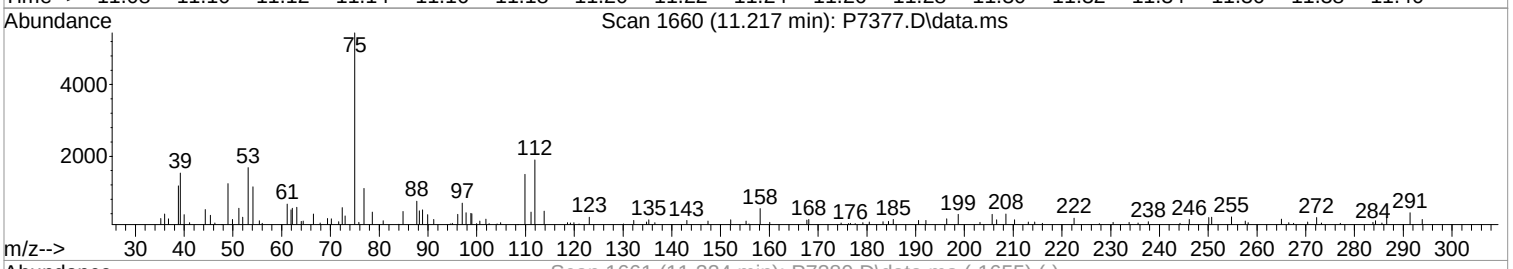
01/05/17

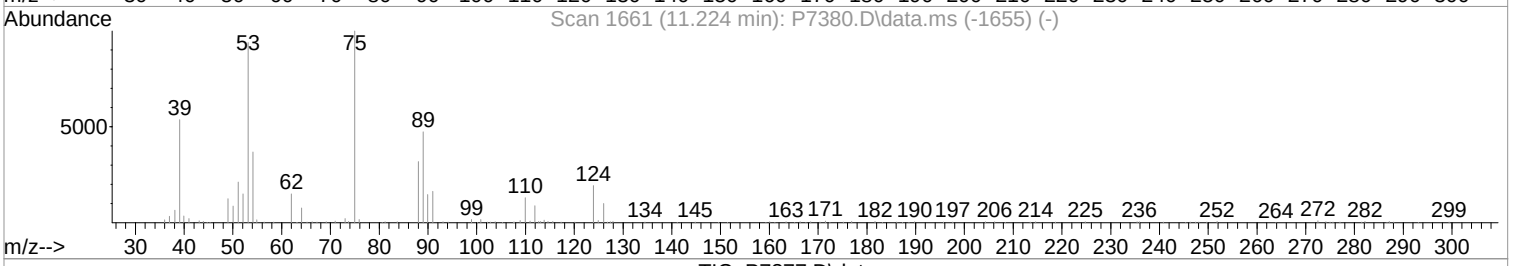
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(91) trans-1,4-Dichloro-2-Butene

11.217min (-0.012) 1.71 ppb

response 2359

Ion	Exp%	Act%
53.00	100	100
89.00	50.40	30.24#
124.00	20.60	0.00#
0.00	0.00	0.00

Manual Integration:

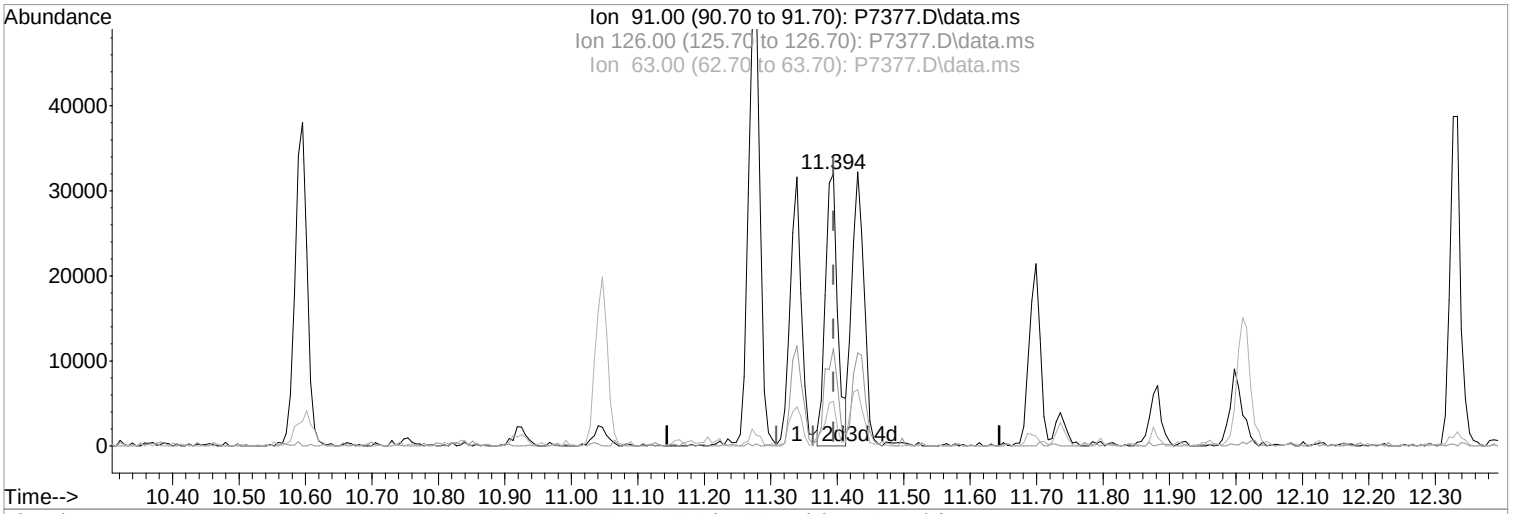
Before

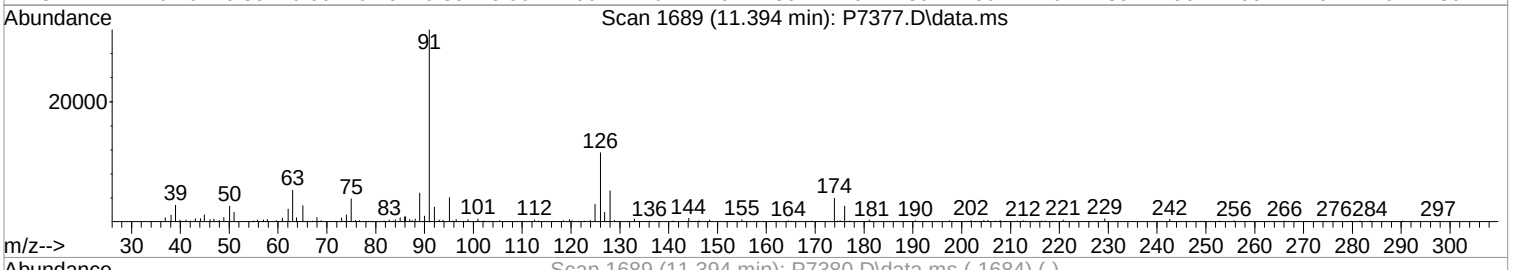
01/05/17

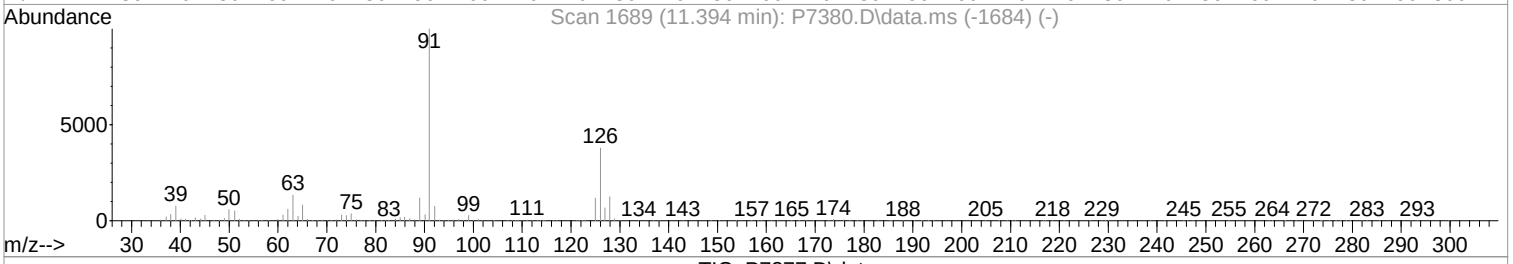
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7377.D\data.ms

(97) 3-Chlorotoluene

11.394min (+0.000) 2.08 ppb m

response 41466

Ion	Exp%	Act%
91.00	100	100
126.00	37.70	35.96
63.00	13.50	16.47#
0.00	0.00	0.00

Manual Integration:

After

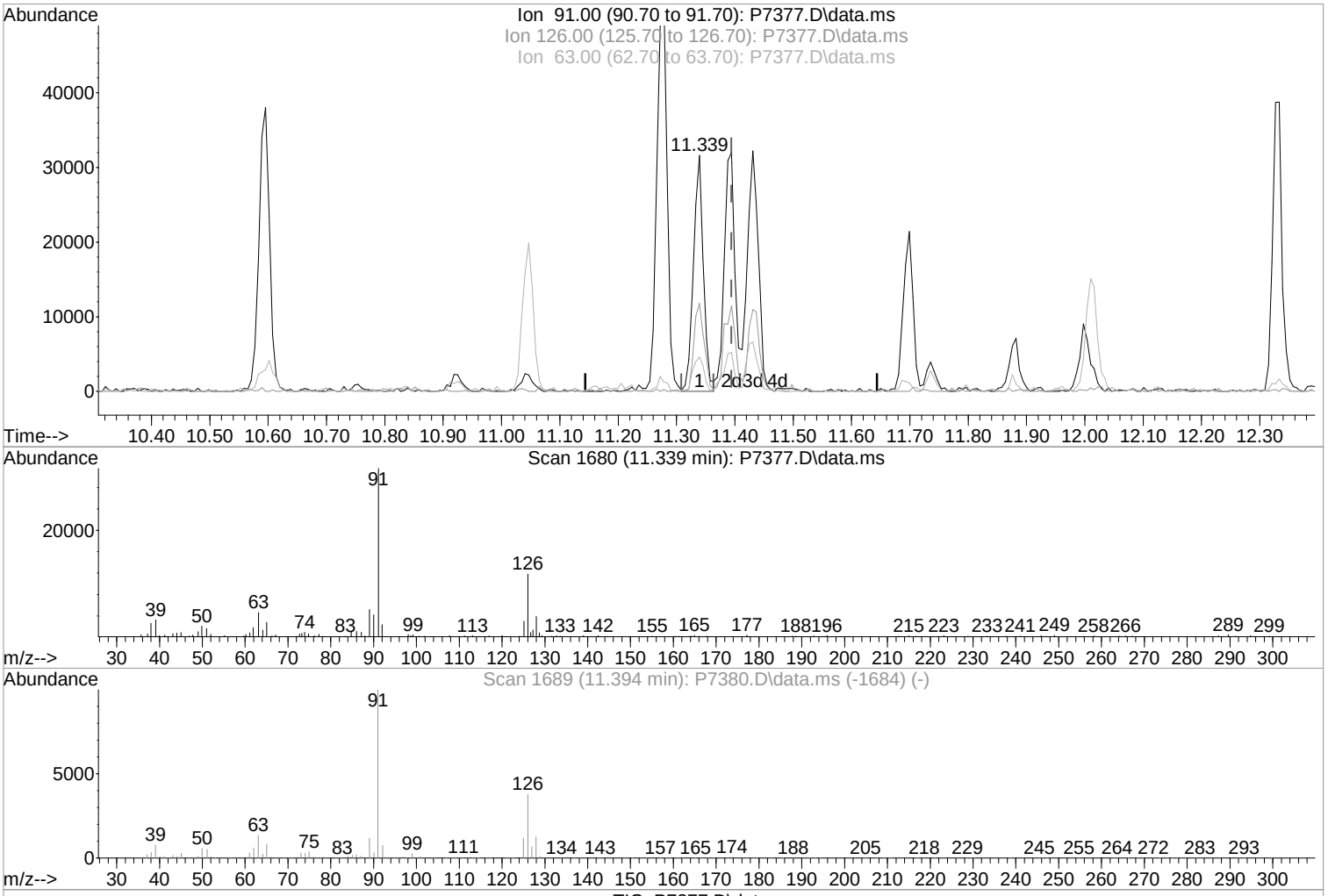
Wrong peak selected.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 08:58:05 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7377.D\data.ms

(97) 3-Chlorotoluene

11.339min (-0.055) 1.88 ppb

response 37543

Ion	Exp%	Act%
91.00	100	100
126.00	37.70	40.01
63.00	13.50	14.55
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 09:27:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	758057	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1210121	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1160326	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	638046	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	417634	63.96	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 127.92%#				
48) surr1,1,2-dichloroetha...	6.090	65	474219	65.41	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 130.82%#				
65) SURR3,Toluene-d8	8.523	98	1733113	64.20	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 128.40%#				
70) SURR2,BFB	11.047	95	664725	63.53	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 127.06%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	19000	2.06	ppb		95
3) Chloromethane	1.347	50	16391	1.98	ppb		91
4) Vinyl Chloride	1.427	62	14498	1.98	ppb		94
5) Bromomethane	1.683	94	7036	1.90	ppb		93
6) Chloroethane	1.762	64	8374	2.16	ppb		78
7) Freon 21	1.926	67	18833	2.06	ppb		96
8) Trichlorofluoromethane	1.975	101	15937	1.94	ppb		95
9) Diethyl Ether	2.225	59	6105	1.75	ppb	#	47
10) Freon 123a	2.237	67	11383	1.98	ppb		96
11) Freon 123	2.286	83	12033	1.81	ppb	#	67
12) Acrolein	2.335	56	5804	10.12	ppb	#	55
13) 1,1-Diclethene	2.420	96	10395	1.94	ppb		100
14) Freon 113	2.439	101	11170	1.93	ppb	#	76
15) Acetone	2.487	43	3233	2.90	ppb		75
16) 2-Propanol	2.652	45	7151m	40.47	ppb		
17) Iodomethane	2.573	142	14324	1.82	ppb		86
18) Carbon Disulfide	2.634	76	30585	1.87	ppb		96
19) Acetonitrile	2.756	40	2070m	11.84	ppb		
20) Allyl Chloride	2.786	76	7501	2.35	ppb	#	73
21) Methyl Acetate	2.823	43	4640	1.75	ppb	#	56
22) Methylene Chloride	2.920	84	11382	1.93	ppb		87
23) TBA	3.091	59	11970m	39.23	ppb		
24) Acrylonitrile	3.201	53	12943	9.79	ppb	#	78
25) Methyl-t-Butyl Ether	3.255	73	29852m	2.11	ppb		
26) trans-1,2-Dichloroethene	3.237	96	12954	2.08	ppb		87
28) 1,1-Diclethane	3.780	63	20131	1.93	ppb		93
29) Vinyl Acetate	3.920	86	1949m	1.92	ppb		
30) DIPE	3.938	45	38464	1.99	ppb		96
31) 2-Chloro-1,3-Butadiene	3.920	53	17030	1.92	ppb		81
32) ETBE	4.524	59	32026	1.95	ppb		87
33) 2,2-Dichloropropane	4.694	77	15192m	1.85	ppb		
34) cis-1,2-Dichloroethene	4.706	96	13794	2.11	ppb	#	55
36) Propionitrile	4.859	54	5200m	10.35	ppb		
37) Bromochloromethane	5.139	130	7242m	2.01	ppb		
38) Methacrylonitrile	5.151	67	3519m	2.18	ppb		
39) Tetrahydrofuran	5.249	42	2107m	2.01	ppb		
40) Chloroform	5.316	83	20694	2.04	ppb		96
41) 1,1,1-Trichloroethane	5.584	97	15868	1.79	ppb		90
42) TAME	6.401	73	27784	1.92	ppb		84

1st 01/05/17
2nd 01/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 09:27:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) Cyclohexane	5.682	41	12813m	2.01	ppb		
46) Carbontetrachloride	5.846	121	4111m	1.83	ppb		
47) 1,1-Dichloropropene	5.859	75	14643	1.82	ppb		88
49) Benzene	6.163	78	43630	2.04	ppb		89
50) 1,2-Dichloroethane	6.200	62	15658	2.08	ppb		84
51) Iso-Butyl Alcohol	6.200	43	4819m	36.96	ppb		
52) n-Heptane	6.633	43	14339	1.99	ppb		89
53) 1-Butanol	7.121	56	6531	86.50	ppb	#	61
54) Trichloroethene	7.072	130	13722m	2.20	ppb		
55) Methylcyclohexane	7.310	55	14274	1.93	ppb	#	81
56) 1,2-Diclpropane	7.346	63	12563	2.07	ppb		84
57) Dibromomethane	7.480	93	6343m	2.07	ppb		
58) 1,4-Dioxane	7.553	88	2312m	52.76	ppb		
59) Methyl Methacrylate	7.578	69	4337m	1.49	ppb		
60) Bromodichloromethane	7.700	83	15055	2.02	ppb		98
61) 2-Nitropropane	7.956	41	2897m	4.99	ppb		
62) 2-Chloroethylvinyl Ether	8.096	63	4771	1.64	ppb		87
63) cis-1,3-Dichloropropene	8.236	75	16211	1.85	ppb		89
64) 4-Methyl-2-pentanone	8.431	43	7435	1.95	ppb		87
66) Toluene	8.596	91	52634	2.10	ppb		90
67) trans-1,3-Dichloropropene	8.858	75	13341	1.86	ppb		79
68) Ethyl Methacrylate	8.992	69	9975m	1.80	ppb		
69) 1,1,2-Trichloroethane	9.041	97	6904	1.62	ppb	#	41
72) Tetrachloroethene	9.175	164	9530	1.89	ppb	#	78
73) 2-Hexanone	9.327	43	4011	1.54	ppb		85
74) 1,3-Dichloropropane	9.206	76	16001	2.04	ppb		91
75) Dibromochloromethane	9.431	129	8238	1.84	ppb	#	65
76) N-Butyl Acetate	9.474	43	12154	1.91	ppb		96
77) 1,2-Dibromoethane	9.523	107	7940	1.94	ppb		98
78) Chlorobenzene	10.010	112	32066	1.97	ppb		82
79) 3-CBTF	10.029	180	17769	1.93	ppb	#	79
80) 4-CBTF	10.077	180	18014	2.13	ppb		90
81) 1,1,1,2-Tetrachloroethane	10.096	131	9203	1.70	ppb	#	77
82) Ethylbenzene	10.132	106	18464	2.04	ppb	#	89
83) (m+p)Xylene	10.236	106	42224	3.95	ppb		89
84) o-Xylene	10.589	106	22158	2.08	ppb	#	85
85) Styrene	10.608	104	35664	2.00	ppb		93
87) Bromoform	10.754	173	4118	1.82	ppb	#	65
88) 2-CBTF	10.833	180	17791	2.03	ppb		92
89) Isopropylbenzene	10.925	105	55601	2.13	ppb		97
90) Cyclohexanone	10.992	55	16946	36.94	ppb		85
91) trans-1,4-Dichloro-2-B...	11.217	53	2705m	1.96	ppb		
92) 1,1,2,2-Tetrachloroethane	11.175	83	10967	2.20	ppb	#	76
93) Bromobenzene	11.169	156	14702	2.08	ppb		93
94) 1,2,3-Trichloropropane	11.205	110	3273	2.05	ppb	#	47
95) n-Propylbenzene	11.278	91	64022	2.11	ppb		96
96) 2-Chlorotoluene	11.339	91	36931	2.04	ppb		94
97) 3-Chlorotoluene	11.394	91	41466m	2.08	ppb		
98) 4-Chlorotoluene	11.431	91	41107	1.95	ppb		95
99) 1,3,5-Trimethylbenzene	11.425	105	46893	2.07	ppb		91
100) tert-Butylbenzene	11.699	119	37455	2.02	ppb		92
101) 1,2,4-Trimethylbenzene	11.736	105	48325	2.08	ppb		91
102) 3,4-DCBTF	11.796	214	11552	1.70	ppb	#	88
103) sec-Butylbenzene	11.876	105	53811	1.98	ppb		91
104) p-Isopropyltoluene	11.998	119	45662	2.01	ppb		93
105) 1,3-Dclbenz	11.961	146	25968	1.92	ppb	#	72

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 09:27:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

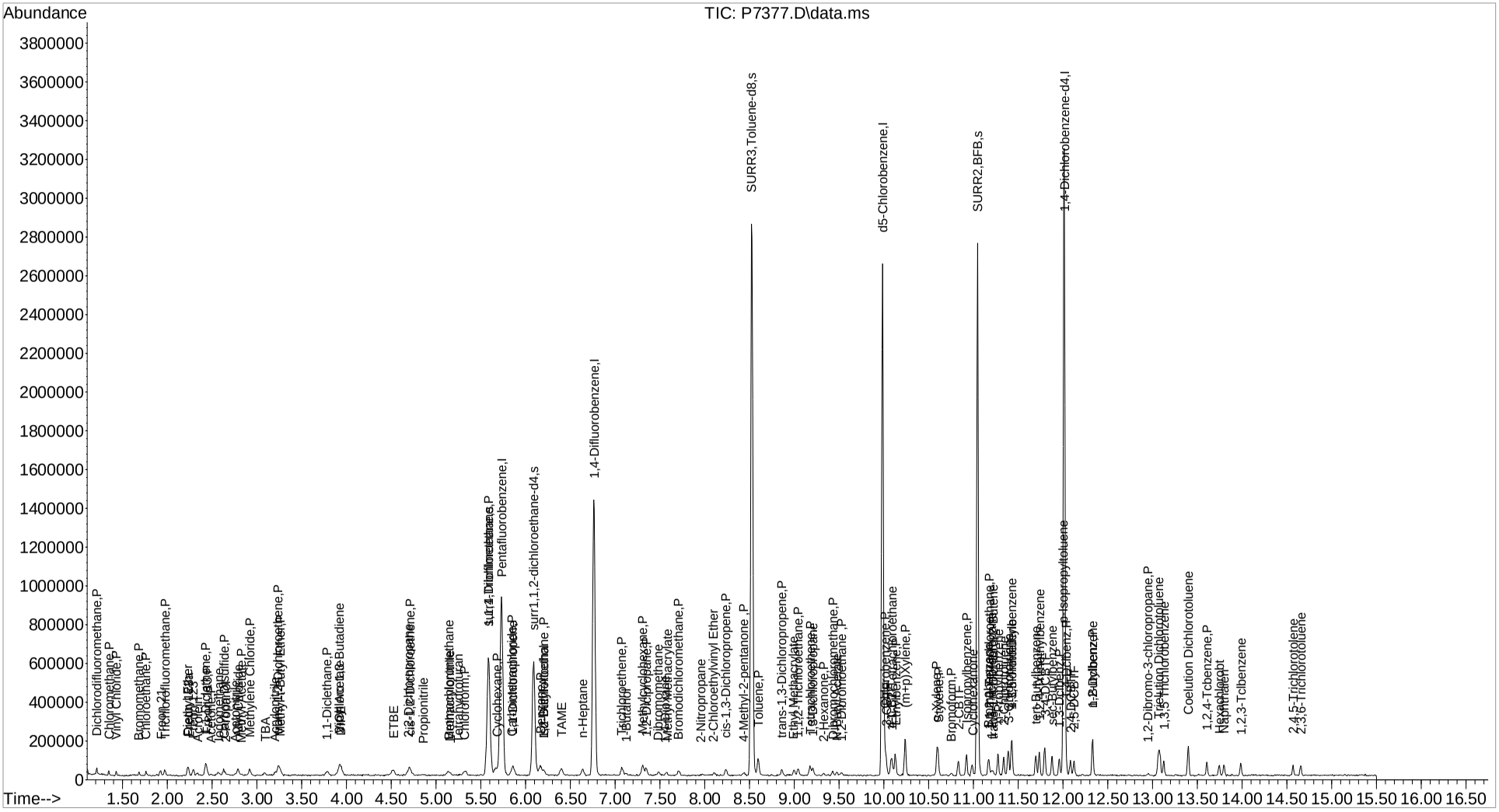
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	12.034	146	30660	2.17	ppb		84
107) 2,4-DCBTF	12.089	214	12193m	1.95	ppb		
108) 2,5-DCBTF	12.126	214	12989	1.95	ppb		93
109) n-Butylbenzene	12.333	91	44019	2.12	ppb		89
110) 1,2-Dclbenz	12.333	146	26056	2.06	ppb		97
111) 1,2-Dibromo-3-chloropr...	12.949	157	2297	2.35	ppb	#	72
112) Trielution Dichlorotol...	13.071	125	63323	5.82	ppb		96
113) 1,3,5 Trichlorobenzene	13.125	180	19649	2.04	ppb	#	91
114) Coelution Dichlorotoluene	13.400	125	44909	3.82	ppb		99
115) 1,2,4-Tcbenzene	13.607	180	15629	1.86	ppb		87
116) Hexachlorobt	13.747	225	8735	2.28	ppb	#	83
117) Naphthalen	13.796	128	33193	2.14	ppb		98
118) 1,2,3-Tclbenzene	13.991	180	14166	2.05	ppb		89
119) 2,4,5-Trichlorotolene	14.570	159	11223	2.09	ppb		93
120) 2,3,6-Trichlorotoluene	14.656	159	8826m	1.97	ppb		

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7377.D
Acq On : 4 Jan 2017 2:23 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

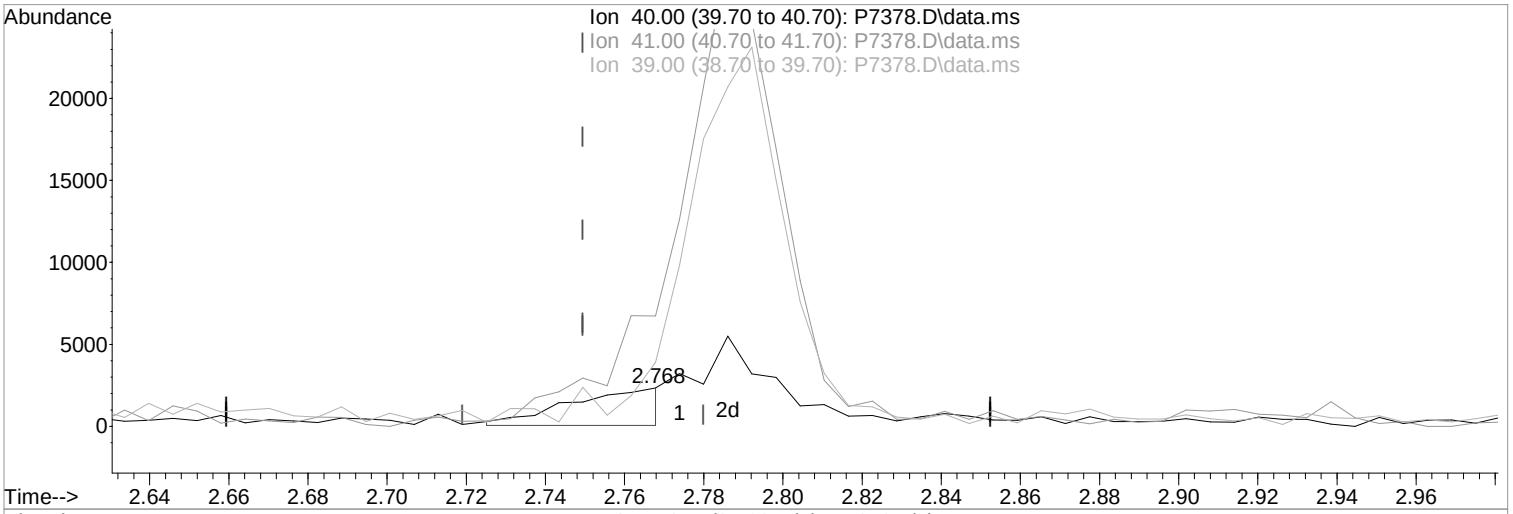
Quant Time: Jan 05 09:27:15 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

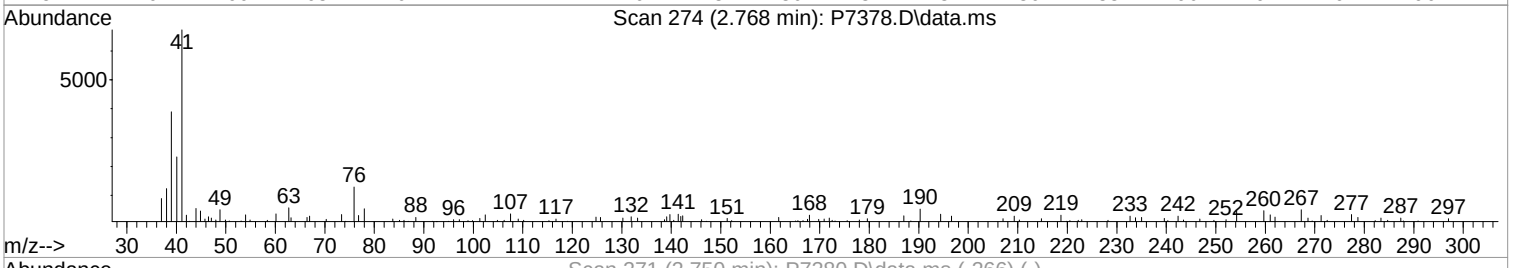


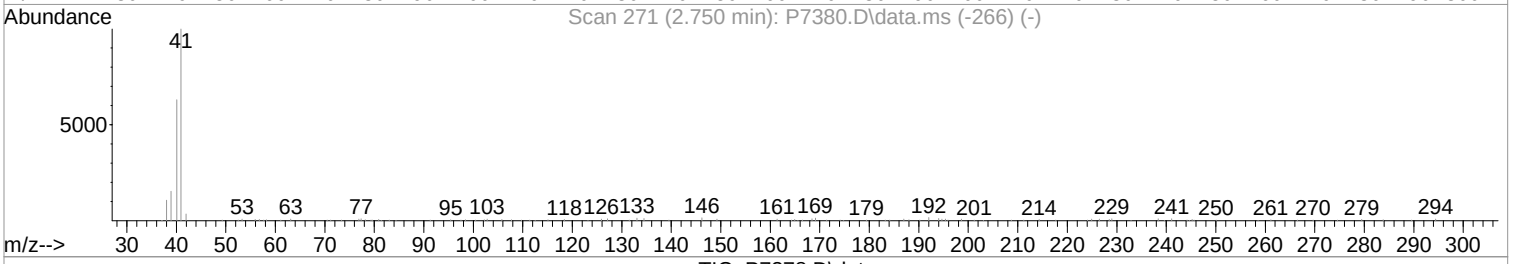
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7378.D\data.ms

(19) Acetonitrile

2.768min (+0.018) 20.95 ppb m

response 3677

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	288.39#
39.00	26.70	166.90#
0.00	0.00	0.00

Manual Integration:

After

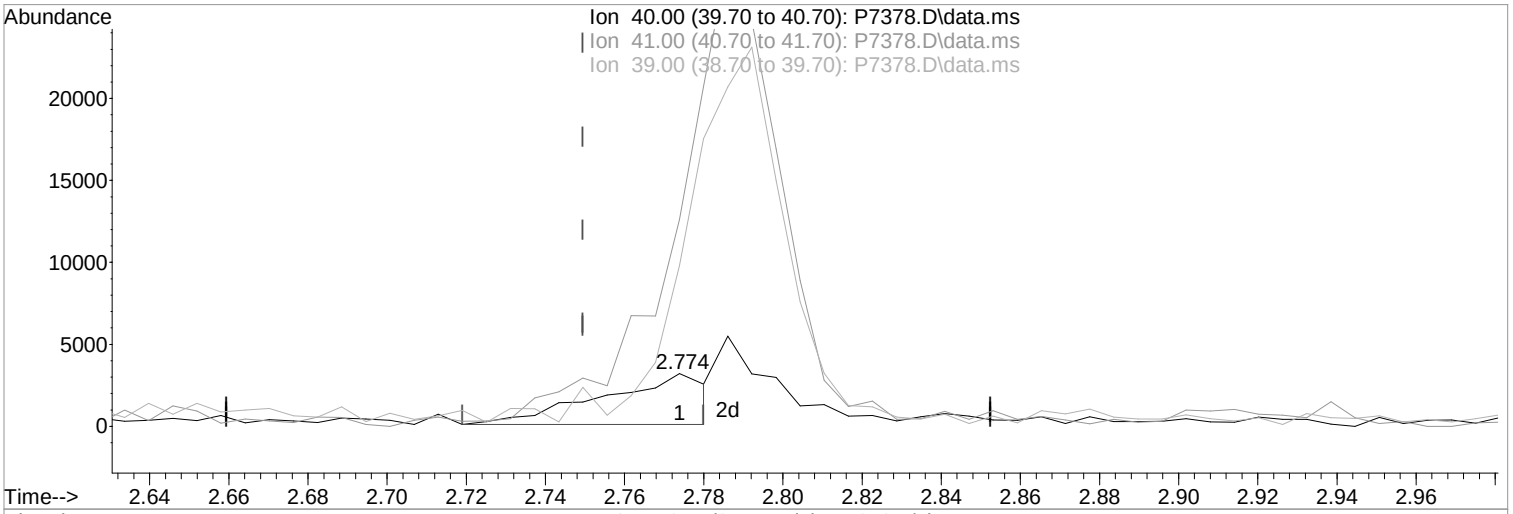
Poor integration.

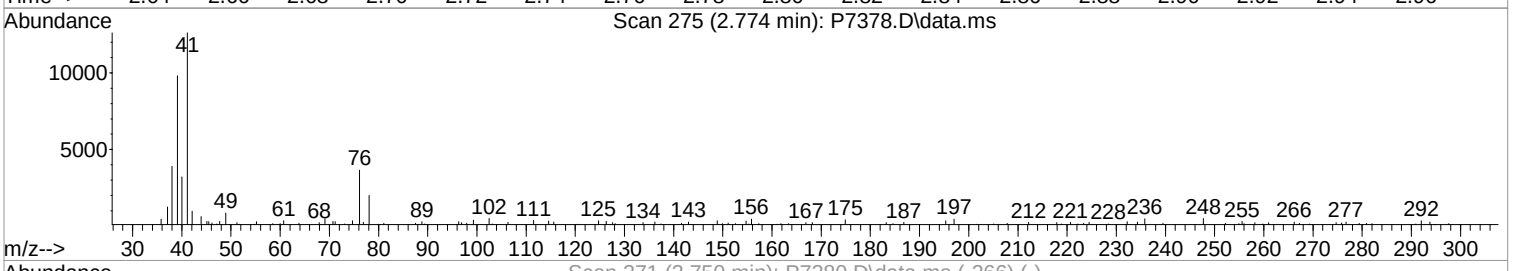
01/05/17

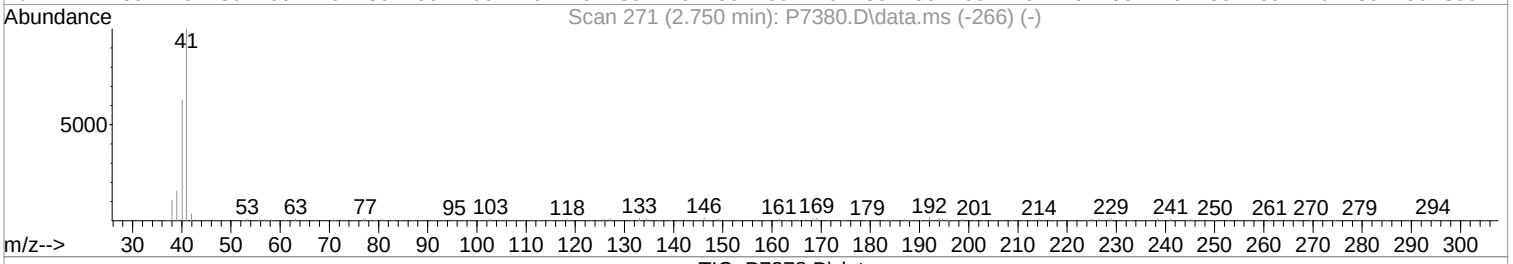
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7378.D\data.ms

(19) Acetonitrile

2.774min (+0.024) 32.08 ppb

response 5632

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	393.09#
39.00	26.70	305.48#
0.00	0.00	0.00

Manual Integration:

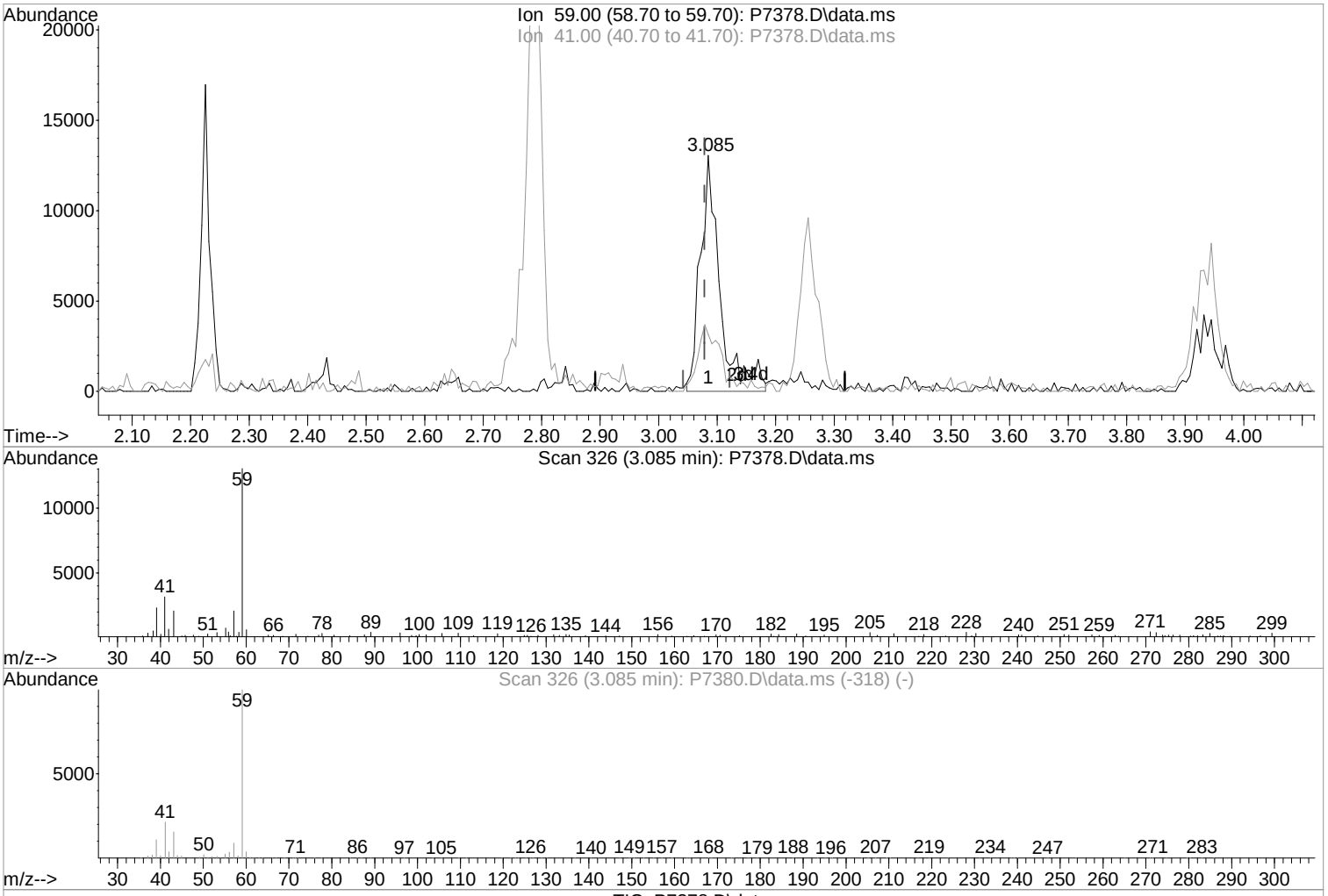
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(23) TBA

3.085min (+0.006) 99.37 ppb m

response 30446

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	24.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

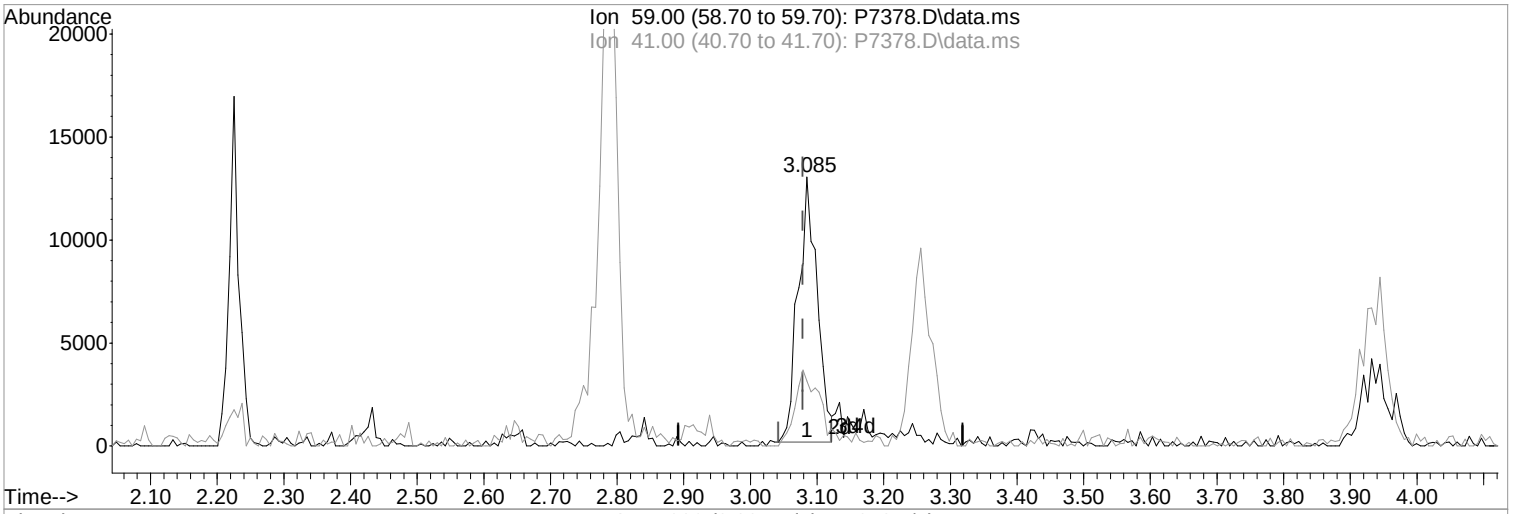
Poor integration.

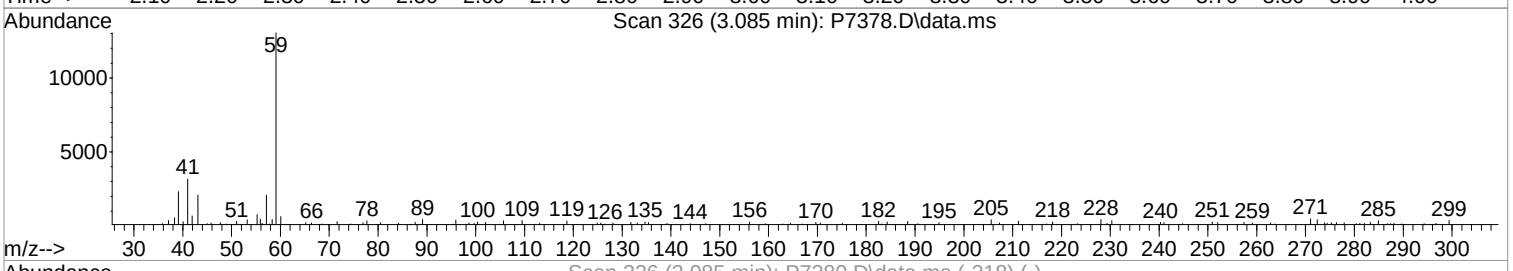
01/05/17

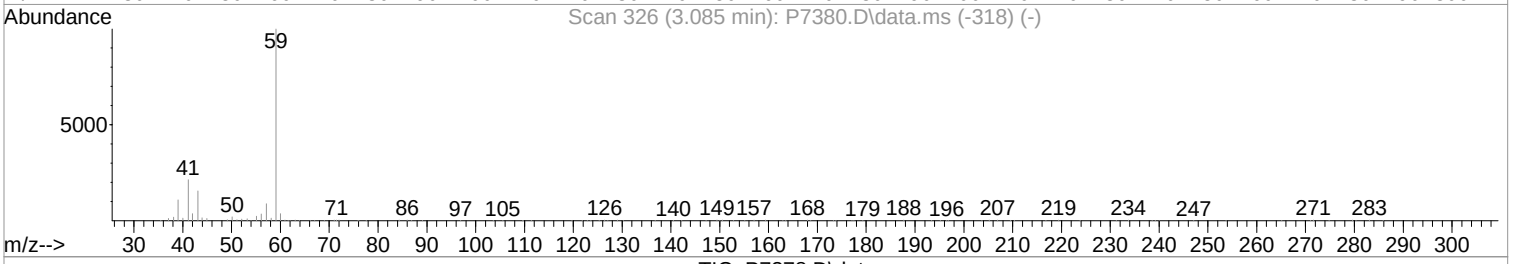
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7378.D\data.ms

(23) TBA

3.085min (+0.006) 83.77 ppb

response 25667

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	24.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

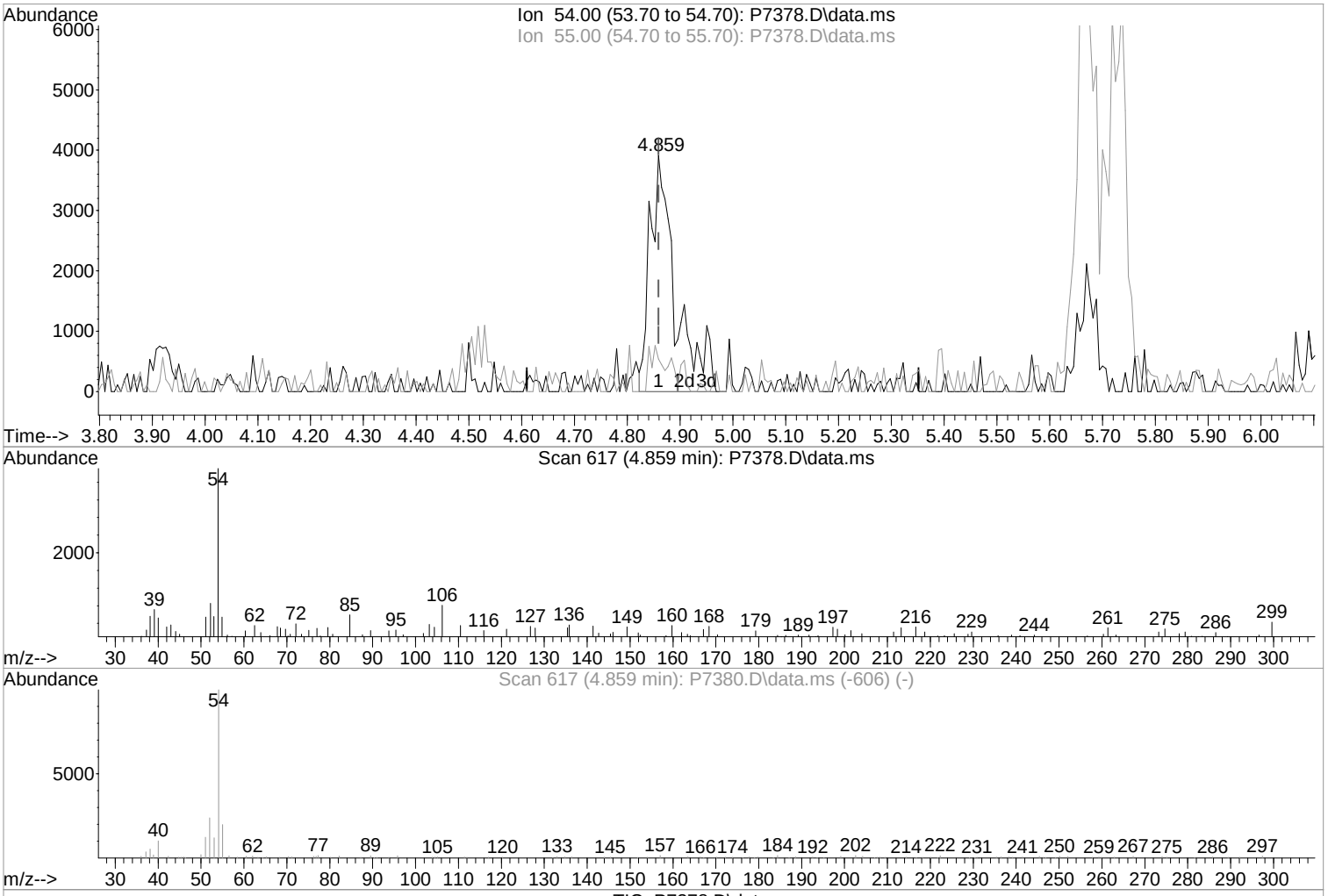
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(36) Propionitrile

4.859min (+0.000) 25.94 ppb m

response 13092

Ion	Exp%	Act%
54.00	100	100
55.00	20.30	13.80
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

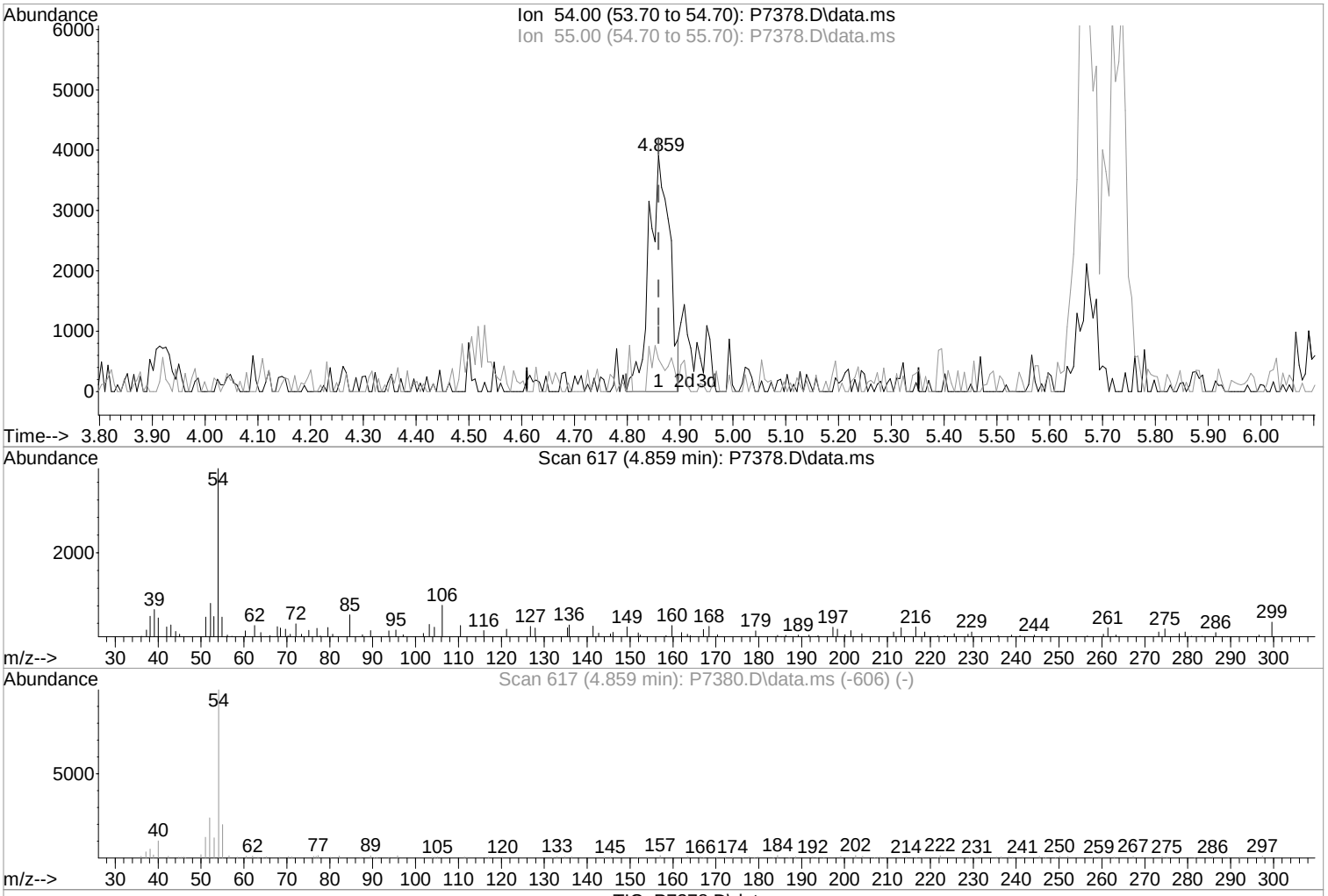
Poor integration.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(36) Propionitrile

4.859min (+0.000) 20.78 ppb

response 10490

Ion	Exp%	Act%
54.00	100	100
55.00	20.30	13.80
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

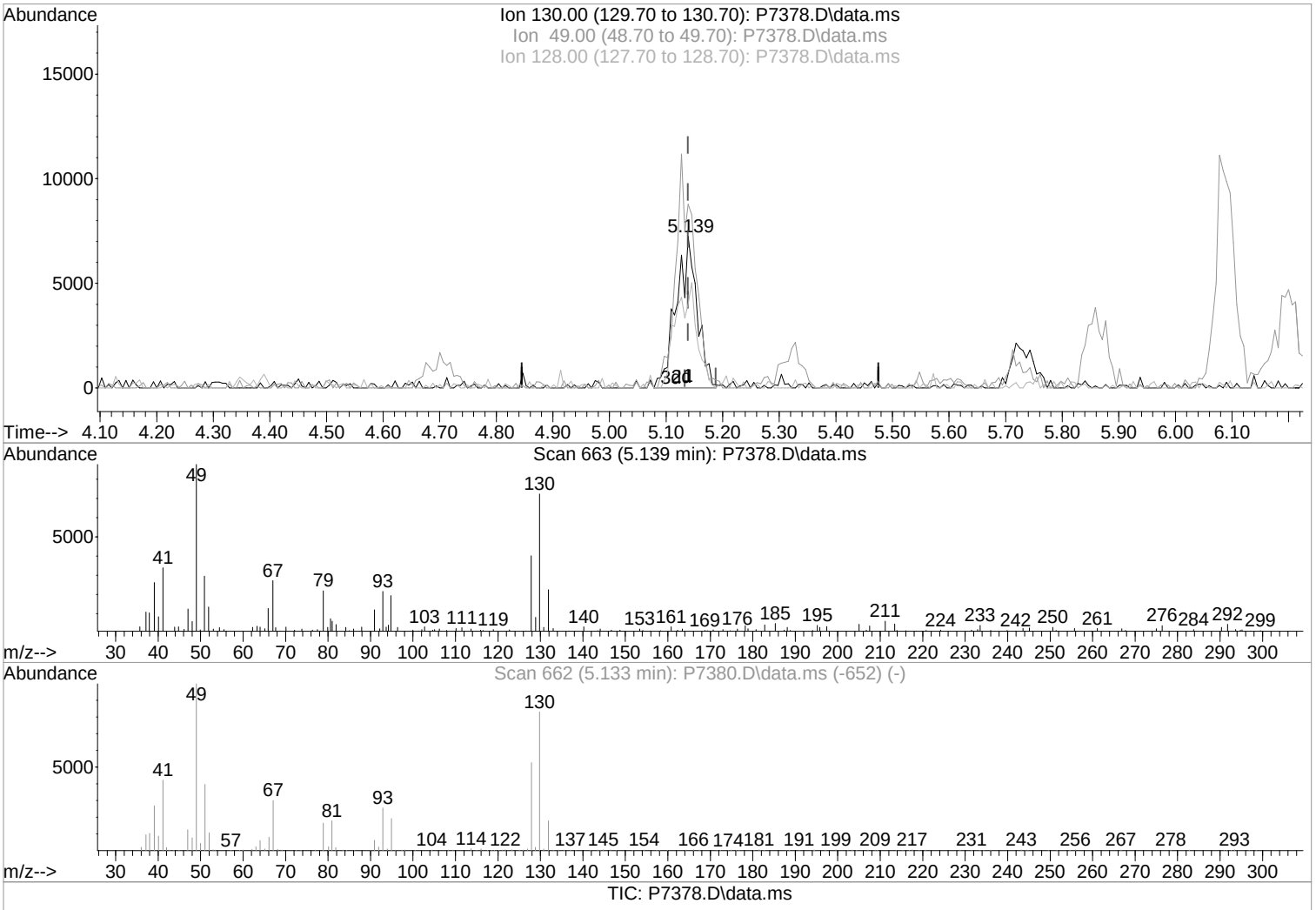
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(37) Bromochloromethane

5.139min (+0.000) 5.16 ppb m

response 18629

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	121.24
128.00	64.20	55.52
0.00	0.00	0.00

Manual Integration:

After

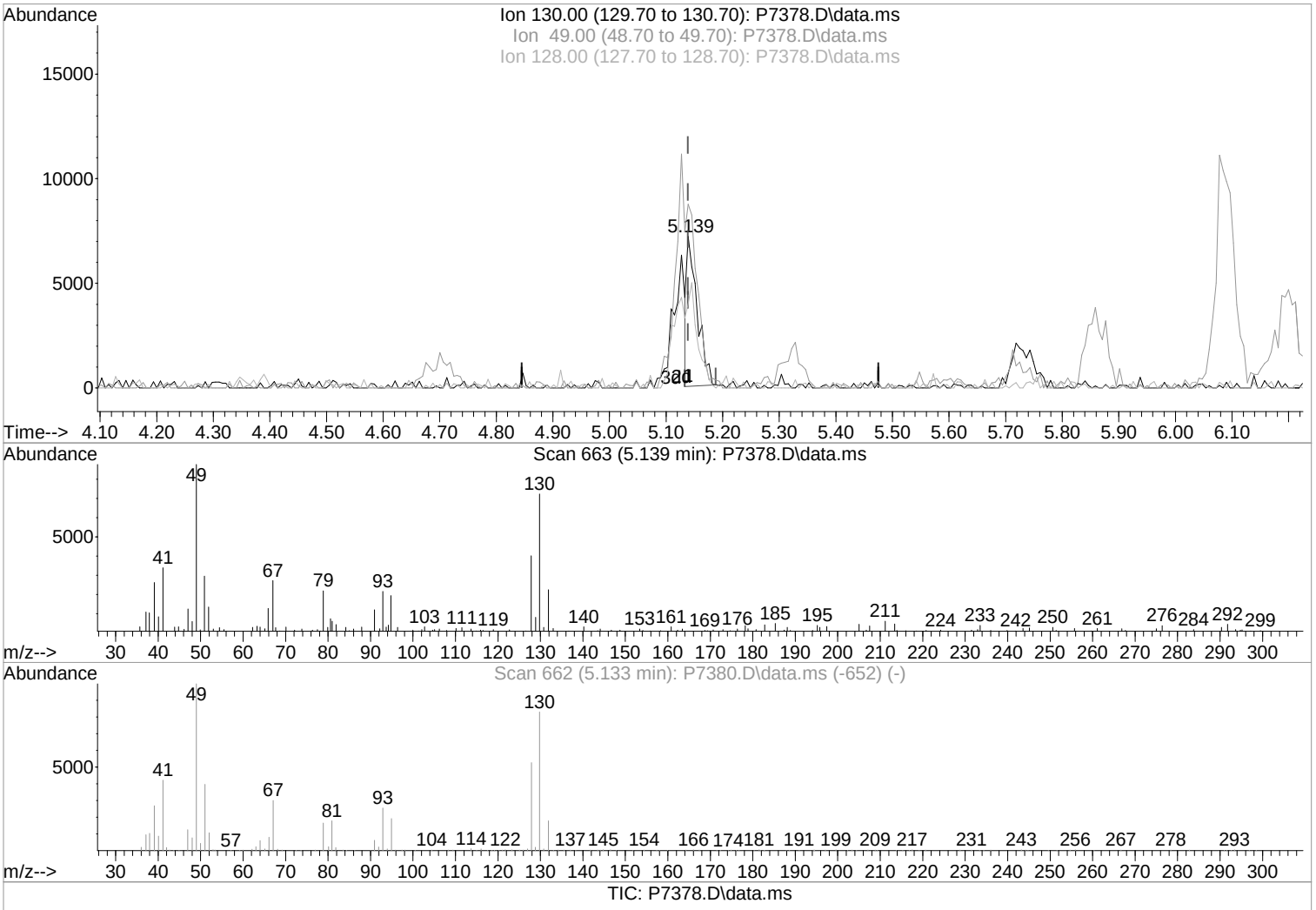
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(37) Bromochloromethane

5.139min (+0.000) 2.53 ppb

response 9146

Ion	Exp%	Act%
130.00	100	100
49.00	120.70	121.24
128.00	64.20	55.52
0.00	0.00	0.00

Manual Integration:

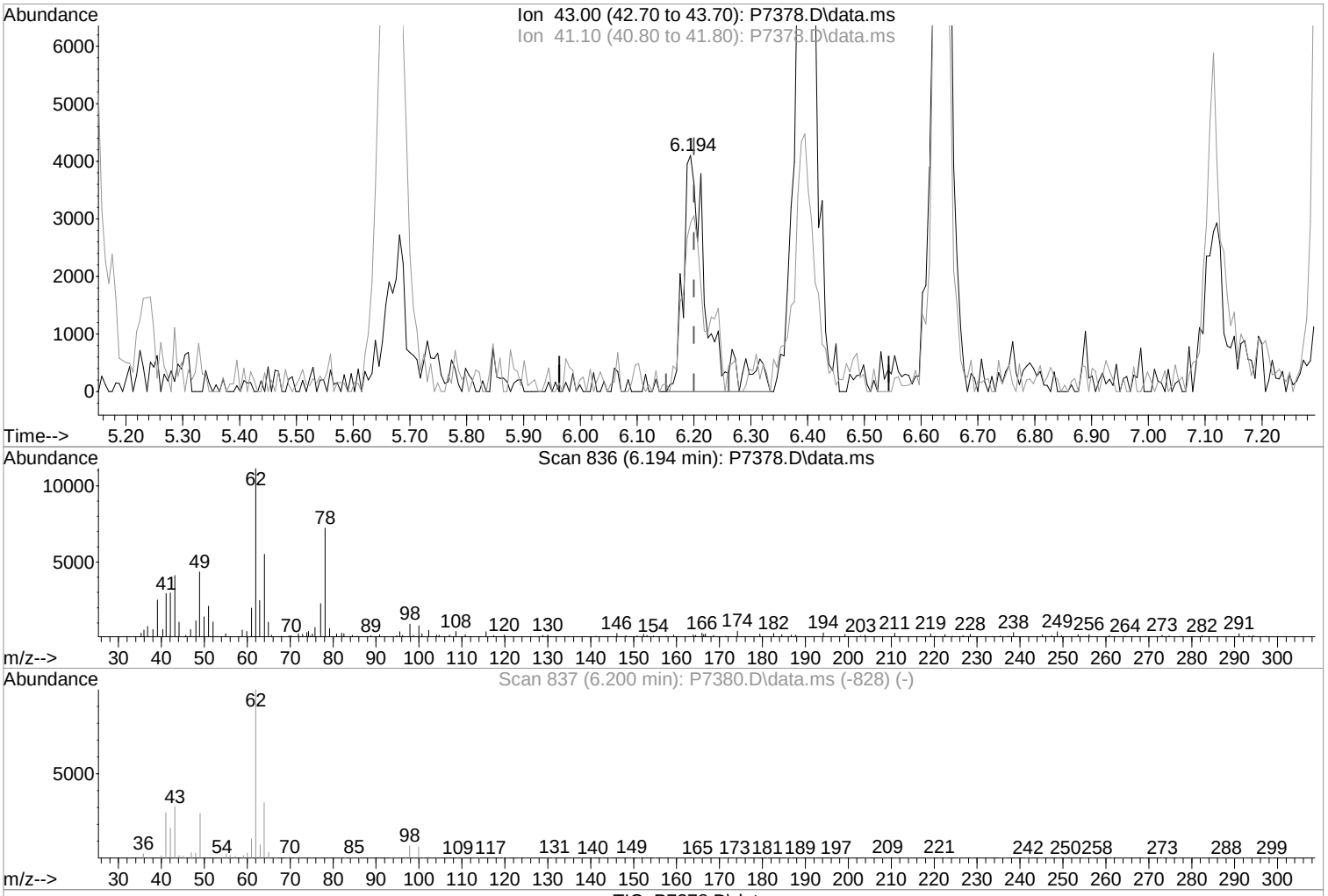
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(51) Iso-Butyl Alcohol

6.194min (-0.006) 92.37 ppb m

response 11968

Ion	Exp%	Act%
43.00	100	100
41.10	88.60	71.27
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

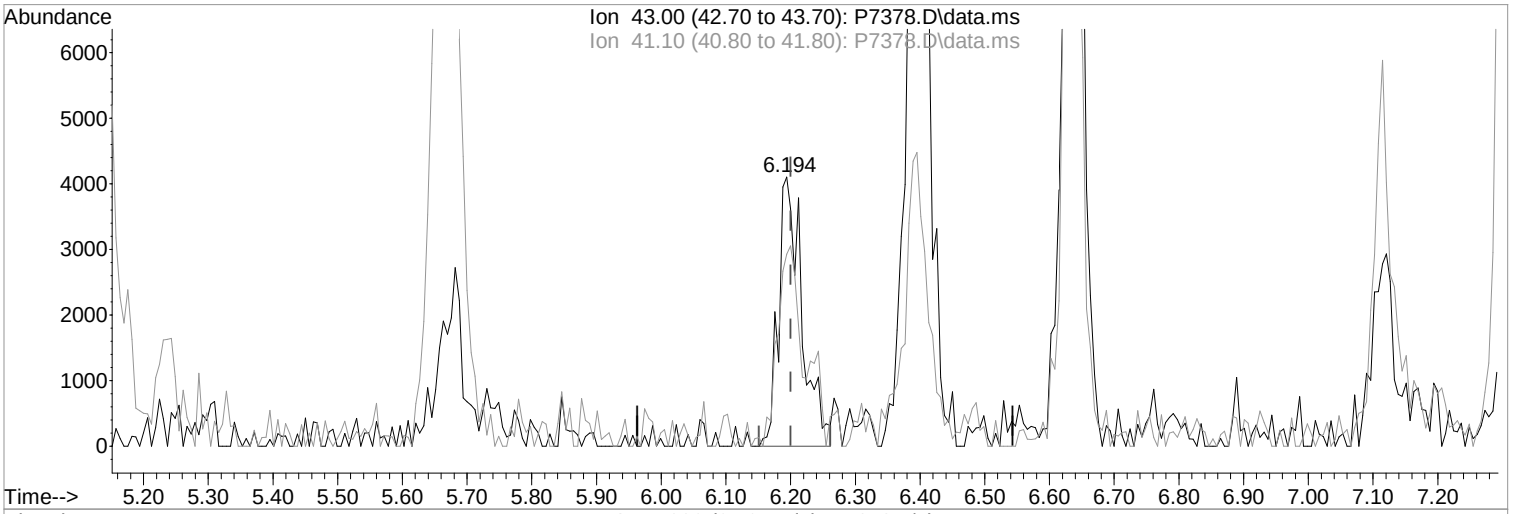
Poor integration.

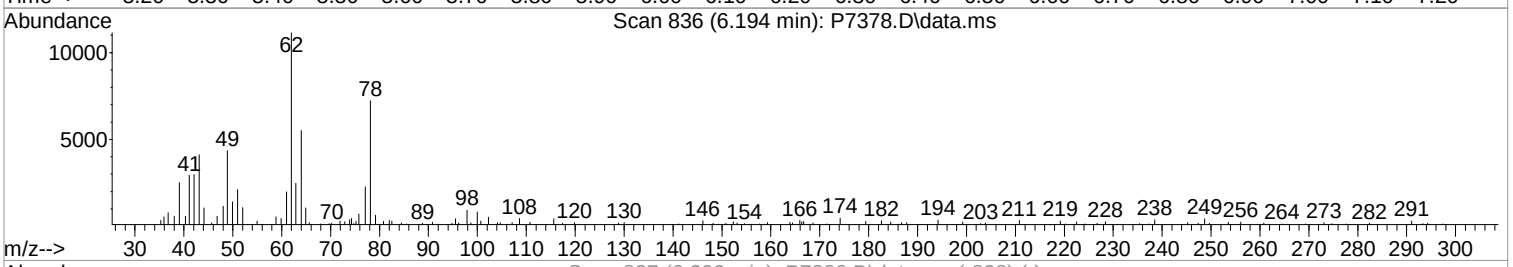
01/05/17

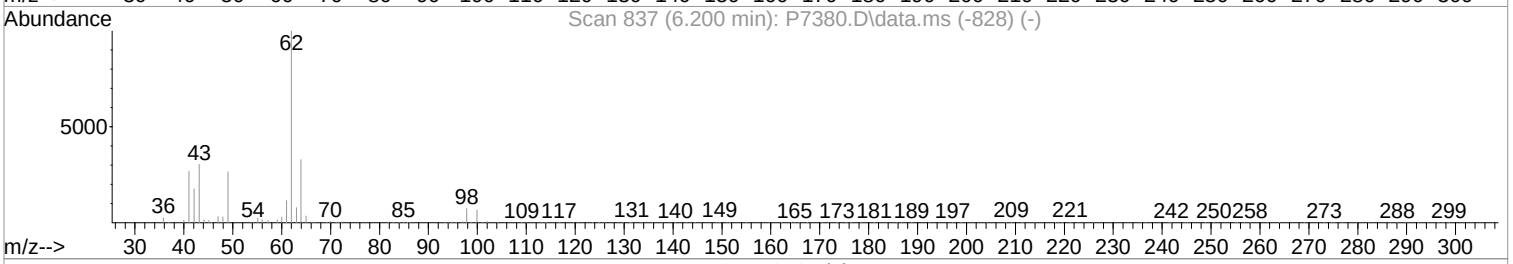
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7378.D\data.ms

(51) Iso-Butyl Alcohol

6.194min (-0.006) 79.92 ppb

response 10354

Ion	Exp%	Act%
43.00	100	100
41.10	88.60	71.27
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

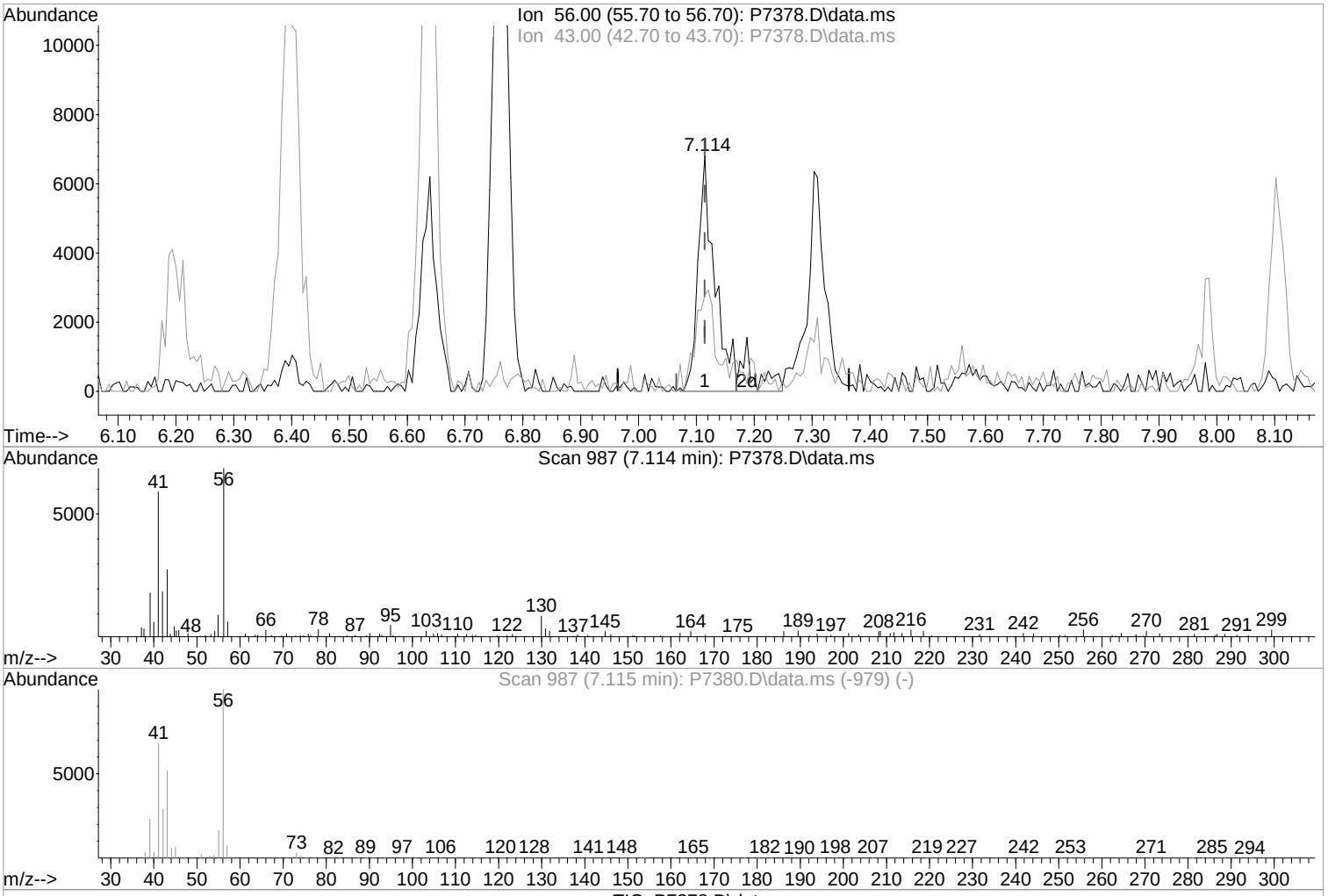
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(53) 1-Butanol

7.114min (+0.000) 215.32 ppb m

response 16155

Ion	Exp%	Act%
56.00	100	100
43.00	57.60	43.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

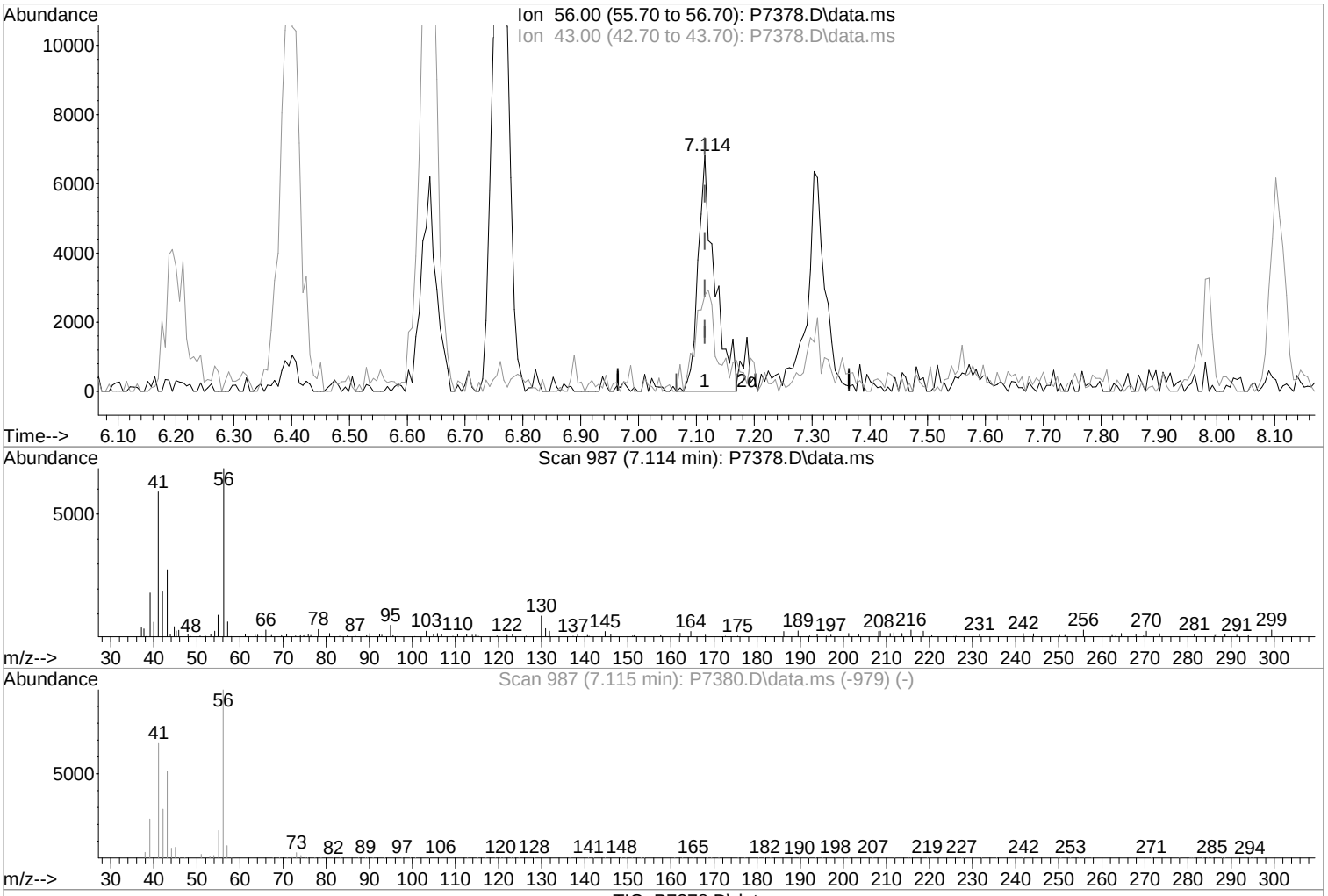
Poor integration.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(53) 1-Butanol

7.114min (+0.000) 183.31 ppb

response 13753

Ion	Exp%	Act%
56.00	100	100
43.00	57.60	51.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

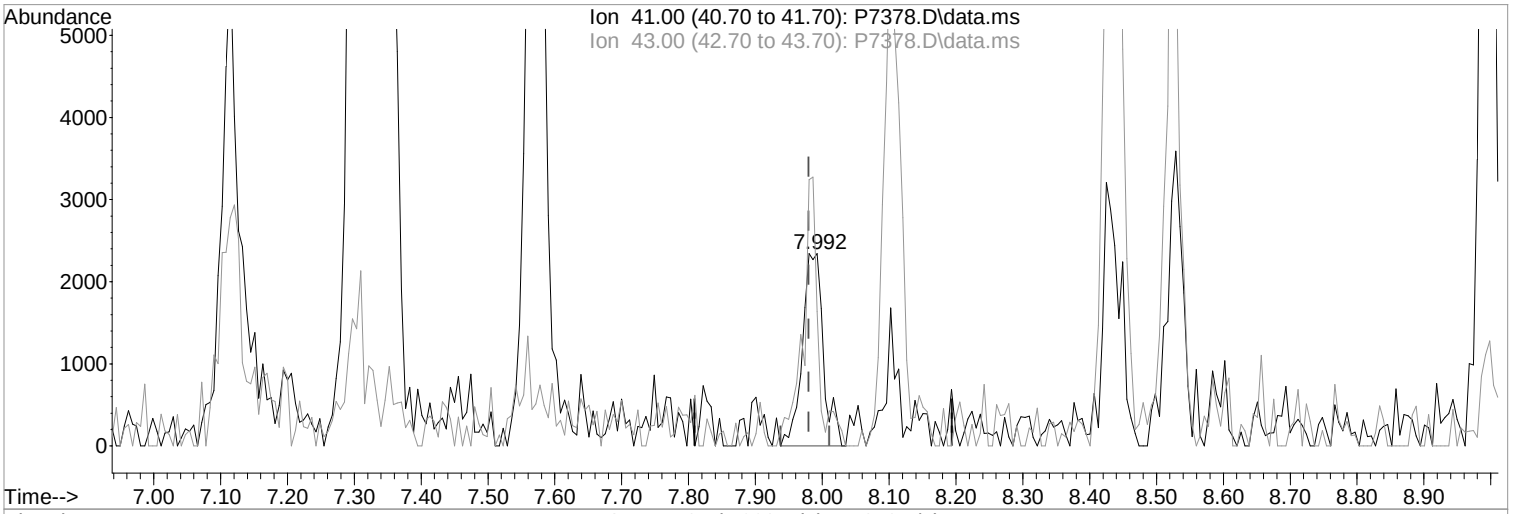
Before

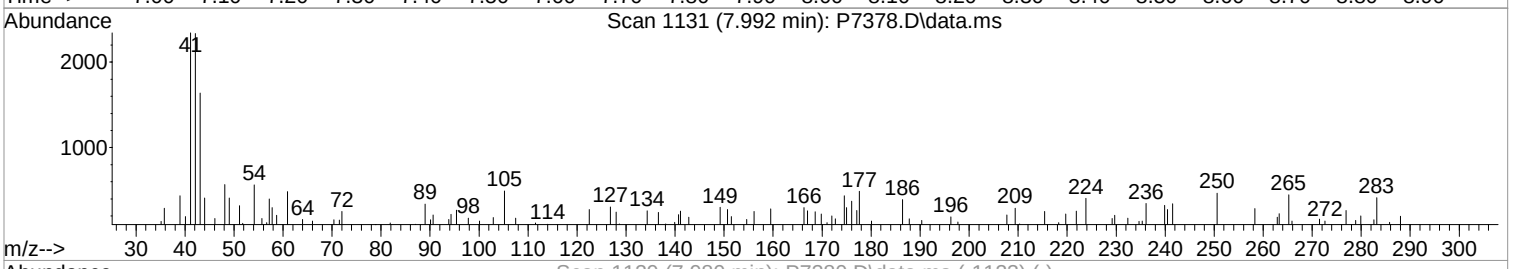
01/05/17

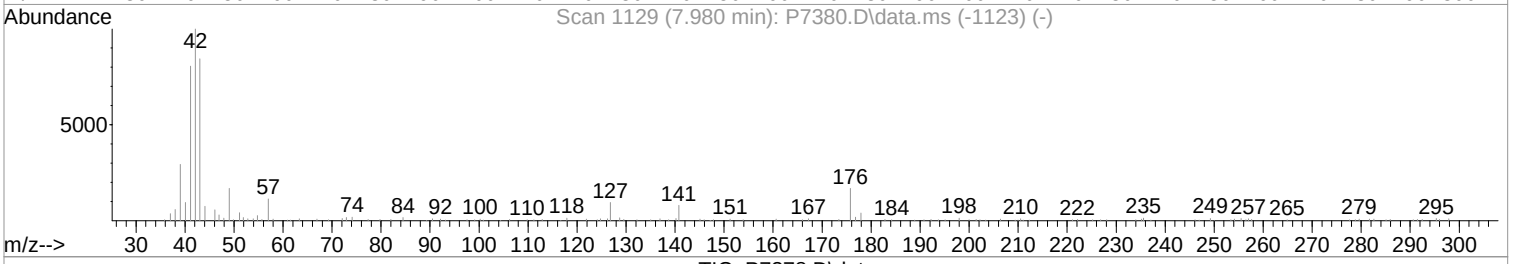
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Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7378.D\data.ms

(61) 2-Nitropropane

7.992min (+0.012) 8.86 ppb m

response 5118

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	69.92#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

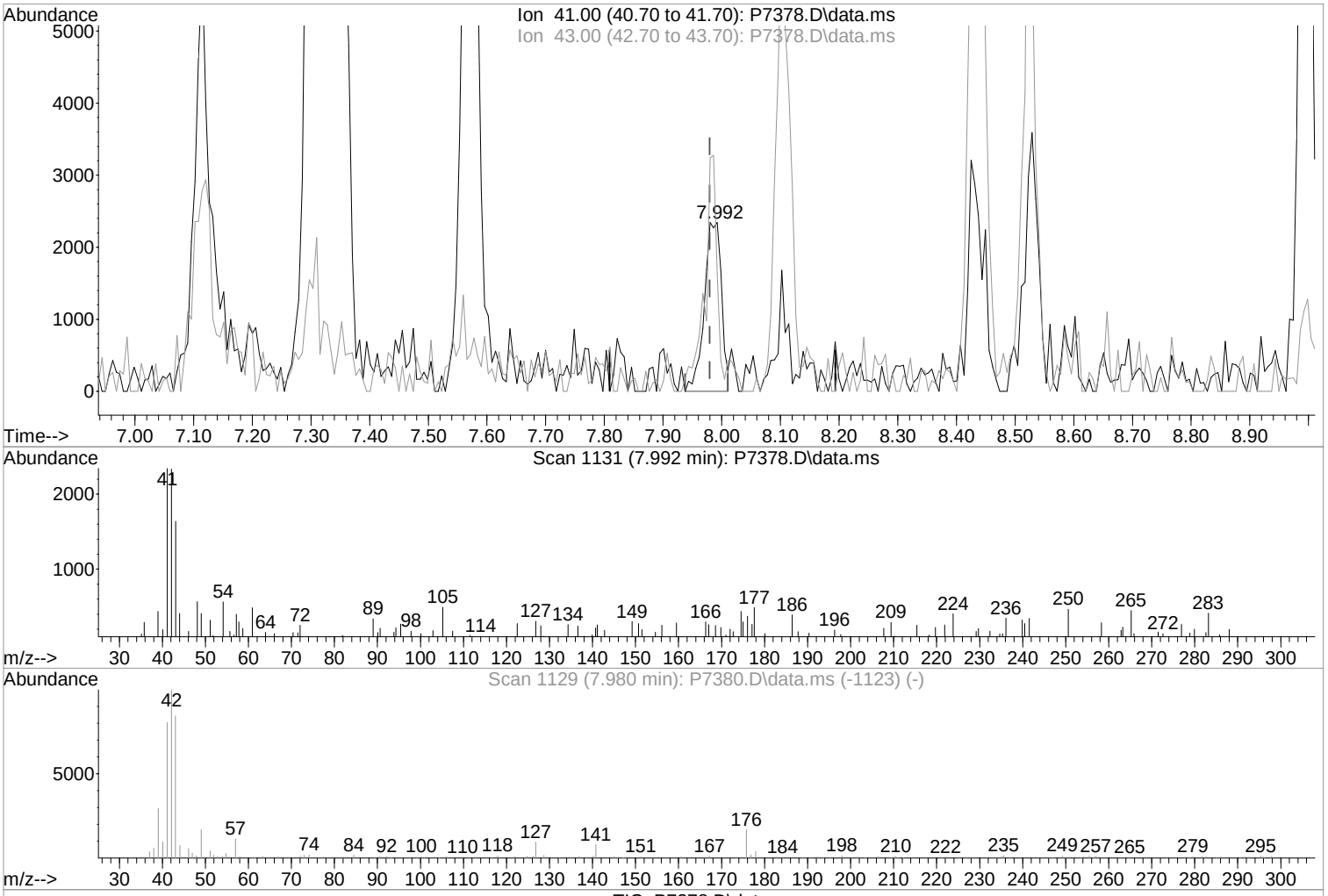
Poor integration.

01/05/17

Quantitation Report (Qedit)

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Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(61) 2-Nitropropane

7.992min (+0.012) 8.30 ppb

response 4792

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	69.92#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

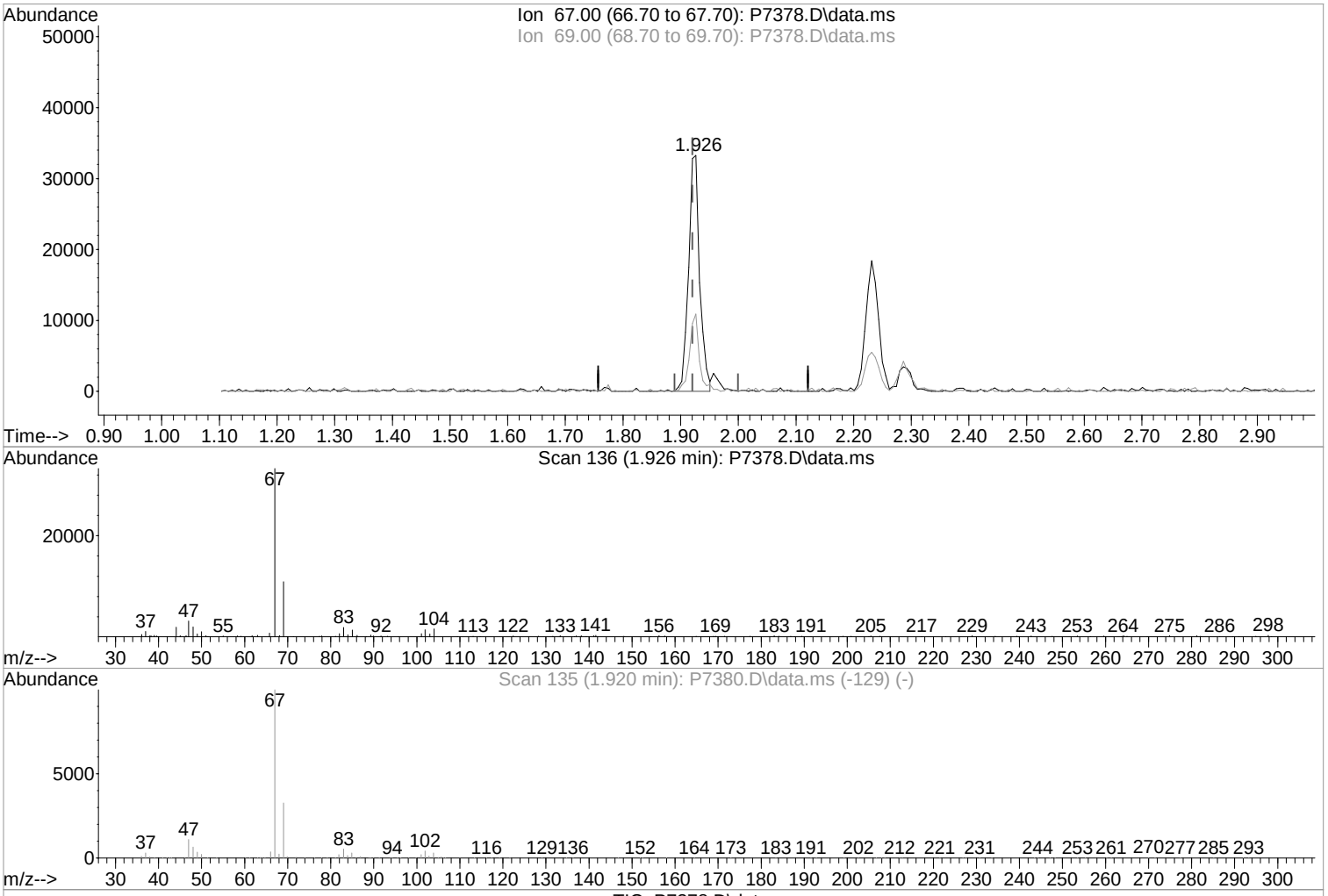
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(7) Freon 21

1.926min (+0.006) 4.89 ppb m

response 44760

Ion	Exp%	Act%
67.00	100	100
69.00	32.60	32.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

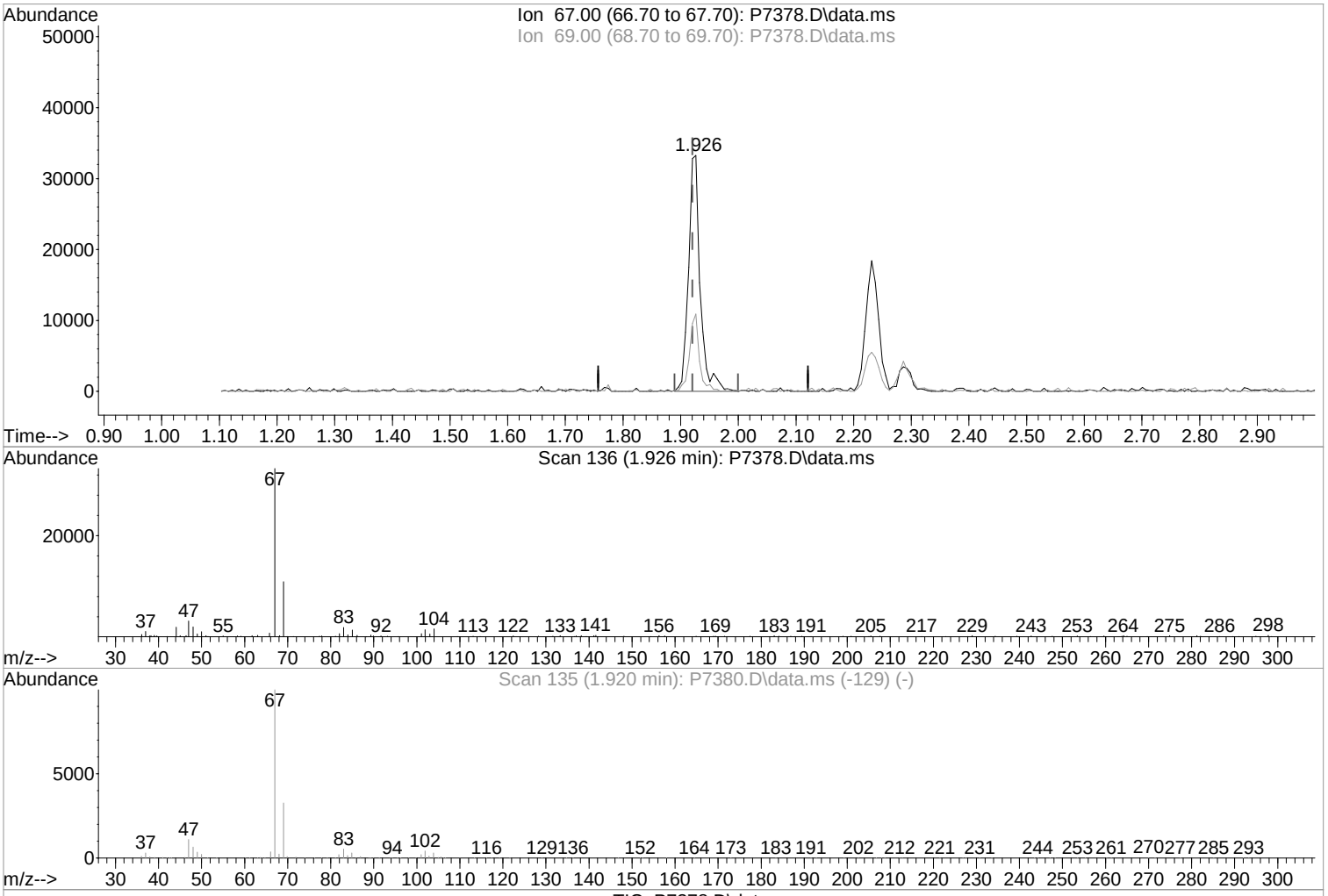
Poor integration.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
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Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 08:58:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7378.D\data.ms

(7) Freon 21

1.926min (+0.006) 5.14 ppb

response 47074

Ion	Exp%	Act%
67.00	100	100
69.00	32.60	32.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7378.D
Acq On : 4 Jan 2017 2:53 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 10:04:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	761271	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1202493	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1183656	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	648815	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	467240	72.01	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 144.02%#				
48) surr1,1,2-dichloroetha...	6.090	65	529236	73.46	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 146.92%#				
65) SURR3,Toluene-d8	8.523	98	1949030	72.65	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 145.30%#				
70) SURR2,BFB	11.047	95	729286	70.15	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 140.30%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	45492	4.91	ppb		94
3) Chloromethane	1.347	50	38220	4.60	ppb		94
4) Vinyl Chloride	1.427	62	36906	5.02	ppb		93
5) Bromomethane	1.683	94	15853	4.27	ppb		94
6) Chloroethane	1.762	64	19291	4.95	ppb		94
7) Freon 21	1.926	67	44760m	4.89	ppb		
8) Trichlorofluoromethane	1.969	101	40551	4.92	ppb		99
9) Diethyl Ether	2.225	59	17661	5.05	ppb	#	77
10) Freon 123a	2.231	67	28598	4.95	ppb		84
11) Freon 123	2.292	83	32794	4.93	ppb		93
12) Acrolein	2.335	56	14045	24.38	ppb		89
13) 1,1-Diclethene	2.426	96	25397	4.71	ppb	#	82
14) Freon 113	2.439	101	29024	4.98	ppb		94
15) Acetone	2.475	43	6408	5.72	ppb	#	54
16) 2-Propanol	2.646	45	18322	103.24	ppb		85
17) Iodomethane	2.567	142	41599	5.26	ppb		86
18) Carbon Disulfide	2.634	76	77065	4.69	ppb		98
19) Acetonitrile	2.768	40	3677m	20.95	ppb		
20) Allyl Chloride	2.792	76	15468	4.83	ppb	#	74
21) Methyl Acetate	2.817	43	13615	5.11	ppb		86
22) Methylene Chloride	2.920	84	28884	4.89	ppb	#	84
23) TBA	3.085	59	30446m	99.37	ppb		
24) Acrylonitrile	3.201	53	33605	25.32	ppb		92
25) Methyl-t-Butyl Ether	3.249	73	67695	4.77	ppb		91
26) trans-1,2-Dichloroethene	3.237	96	30411	4.87	ppb	#	84
28) 1,1-Diclethane	3.786	63	51345	4.91	ppb		95
29) Vinyl Acetate	3.914	86	4331	4.25	ppb		98
30) DIPE	3.932	45	94992	4.89	ppb		80
31) 2-Chloro-1,3-Butadiene	3.914	53	42886	4.81	ppb		91
32) ETBE	4.524	59	84303	5.11	ppb		96
33) 2,2-Dichloropropane	4.700	77	39782	4.82	ppb		92
34) cis-1,2-Dichloroethene	4.706	96	33991	5.17	ppb		93
35) 2-Butanone	4.773	43	8806	5.42	ppb		96
36) Propionitrile	4.859	54	13092m	25.94	ppb		
37) Bromochloromethane	5.139	130	18629m	5.16	ppb		
38) Methacrylonitrile	5.145	67	8329	5.13	ppb	#	69
39) Tetrahydrofuran	5.237	42	5595	5.31	ppb		89
40) Chloroform	5.322	83	50829	4.99	ppb		84
41) 1,1,1-Trichloroethane	5.584	97	43428	4.87	ppb		97

1st 01/05/17
2nd 01/05/17

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ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 10:04:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	69285	4.76	ppb		95
44) Cyclohexane	5.670	41	33972	5.36	ppb		74
46) Carbontetrachloride	5.853	121	11013	4.94	ppb		83
47) 1,1-Dichloropropene	5.859	75	41331	5.16	ppb		93
49) Benzene	6.163	78	114918	5.40	ppb		94
50) 1,2-Dichloroethane	6.206	62	36831	4.92	ppb		90
51) Iso-Butyl Alcohol	6.194	43	11968m	92.37	ppb		
52) n-Heptane	6.639	43	33204	4.63	ppb		93
53) 1-Butanol	7.114	56	16155m	215.32	ppb		
54) Trichloroethene	7.078	130	31480	5.07	ppb		89
55) Methylcyclohexane	7.303	55	39134	5.33	ppb		93
56) 1,2-Diclpropane	7.346	63	29862	4.95	ppb		80
57) Dibromomethane	7.492	93	15709	5.16	ppb	#	72
58) 1,4-Dioxane	7.566	88	5183	119.02	ppb	#	73
59) Methyl Methacrylate	7.566	69	12531	4.34	ppb		83
60) Bromodichloromethane	7.706	83	33178	4.48	ppb		95
61) 2-Nitropropane	7.992	41	5118m	8.86	ppb		
62) 2-Chloroethylvinyl Ether	8.102	63	15231	5.26	ppb		92
63) cis-1,3-Dichloropropene	8.236	75	41227	4.75	ppb		99
64) 4-Methyl-2-pentanone	8.437	43	17862	4.71	ppb		96
66) Toluene	8.596	91	131333	5.27	ppb		99
67) trans-1,3-Dichloropropene	8.858	75	35185	4.94	ppb		93
68) Ethyl Methacrylate	8.998	69	25077	4.56	ppb		96
69) 1,1,2-Trichloroethane	9.047	97	22516	5.33	ppb	#	65
72) Tetrachloroethene	9.175	164	26035	5.07	ppb		92
73) 2-Hexanone	9.327	43	12363	4.64	ppb	#	67
74) 1,3-Dichloropropane	9.206	76	42892	5.35	ppb		95
75) Dibromochloromethane	9.431	129	20590	4.50	ppb		91
76) N-Butyl Acetate	9.474	43	33339	5.13	ppb		88
77) 1,2-Dibromoethane	9.529	107	21919	5.25	ppb		89
78) Chlorobenzene	10.010	112	84250	5.07	ppb		95
79) 3-CBTF	10.029	180	46800	4.97	ppb		93
80) 4-CBTF	10.083	180	44089	5.11	ppb		90
81) 1,1,1,2-Tetrachloroethane	10.096	131	26714	4.84	ppb		92
82) Ethylbenzene	10.126	106	47425	5.13	ppb		93
83) (m+p)Xylene	10.236	106	109310	10.03	ppb		89
84) o-Xylene	10.589	106	54367	5.01	ppb		94
85) Styrene	10.602	104	87854	4.84	ppb		93
87) Bromoform	10.754	173	10470	4.54	ppb		99
88) 2-CBTF	10.833	180	44430	4.98	ppb		97
89) Isopropylbenzene	10.925	105	136431	5.14	ppb		97
90) Cyclohexanone	10.986	55	48102	103.11	ppb		83
91) trans-1,4-Dichloro-2-B...	11.230	53	6823	4.86	ppb		81
92) 1,1,2,2-Tetrachloroethane	11.181	83	24764	4.88	ppb		87
93) Bromobenzene	11.169	156	38198	5.31	ppb	#	81
94) 1,2,3-Trichloropropane	11.211	110	8391	5.16	ppb	#	67
95) n-Propylbenzene	11.272	91	156036	5.07	ppb		96
96) 2-Chlorotoluene	11.339	91	93427	5.07	ppb		96
97) 3-Chlorotoluene	11.388	91	103057	5.08	ppb		94
98) 4-Chlorotoluene	11.431	91	107224	4.99	ppb		97
99) 1,3,5-Trimethylbenzene	11.425	105	122338	5.32	ppb		85
100) tert-Butylbenzene	11.699	119	96899	5.15	ppb		98
101) 1,2,4-Trimethylbenzene	11.736	105	121981	5.17	ppb		97
102) 3,4-DCBTF	11.790	214	32285	4.67	ppb		95
103) sec-Butylbenzene	11.876	105	139580	5.05	ppb		98
104) p-Isopropyltoluene	11.998	119	123554	5.34	ppb		97

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Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.961	146	70187	5.10	ppb		95
106) 1,4-Dclbenz	12.028	146	70055	4.88	ppb		93
107) 2,4-DCBTF	12.083	214	31175	4.89	ppb		95
108) 2,5-DCBTF	12.126	214	34025	5.04	ppb		92
109) n-Butylbenzene	12.327	91	104667	4.96	ppb		93
110) 1,2-Dclbenz	12.333	146	65790	5.11	ppb		86
111) 1,2-Dibromo-3-chloropr...	12.949	157	3895	3.93	ppb	#	73
112) Trielution Dichlorotol...	13.071	125	165205	14.92	ppb		96
113) 1,3,5 Trichlorobenzene	13.126	180	45330	4.62	ppb		85
114) Coelution Dichlorotoluene	13.400	125	118638	9.92	ppb		96
115) 1,2,4-Tcbenzene	13.607	180	40167	4.70	ppb		95
116) Hexachlorobt	13.747	225	17302	4.45	ppb		89
117) Naphthalen	13.796	128	84131	5.34	ppb		96
118) 1,2,3-Tclbenzene	13.985	180	37764	5.37	ppb		95
119) 2,4,5-Trichlorotolene	14.570	159	25982	4.76	ppb		86
120) 2,3,6-Trichlorotoluene	14.656	159	22430	4.93	ppb		95

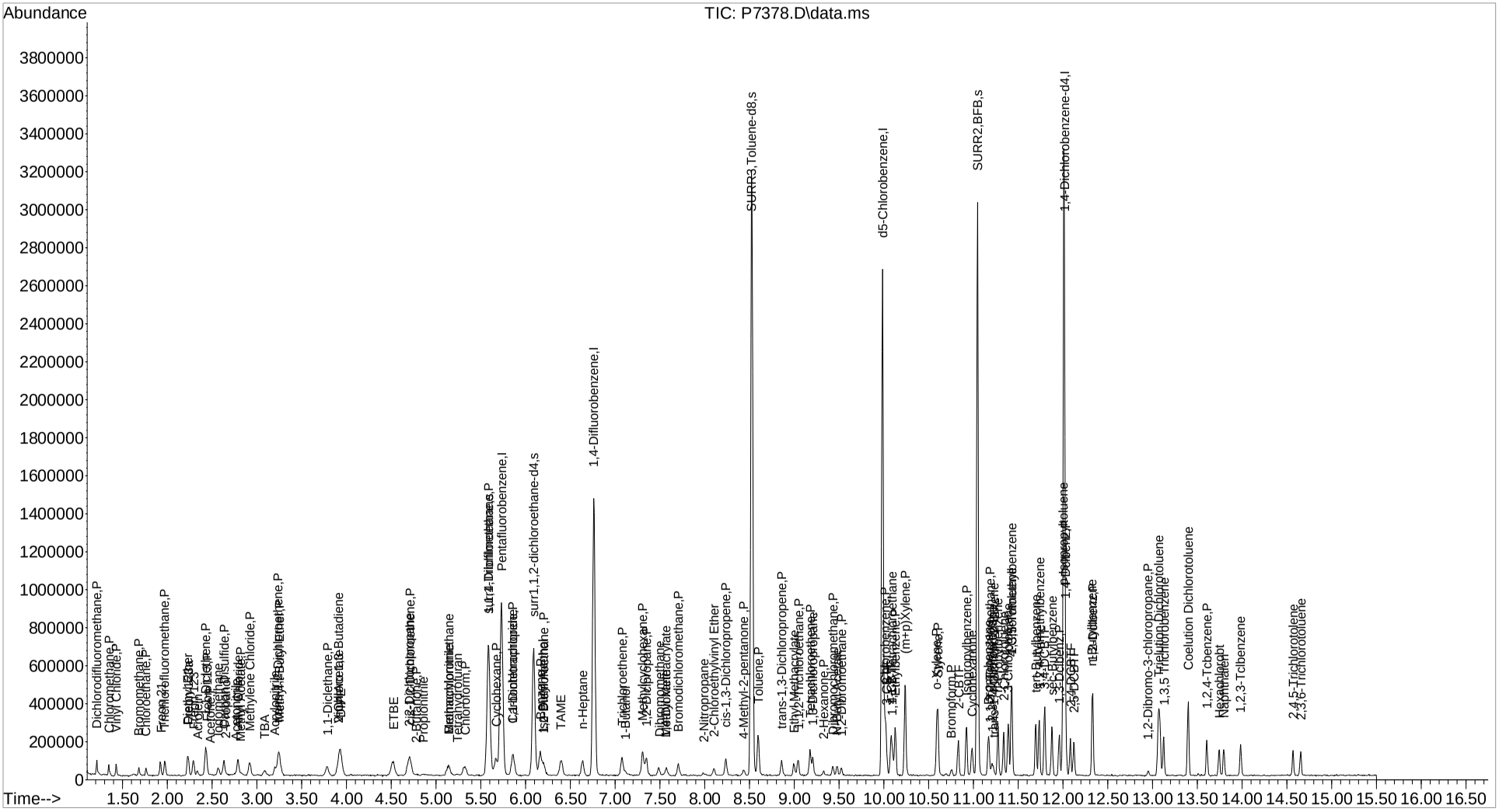
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 01/05/17 2nd 01/05/17

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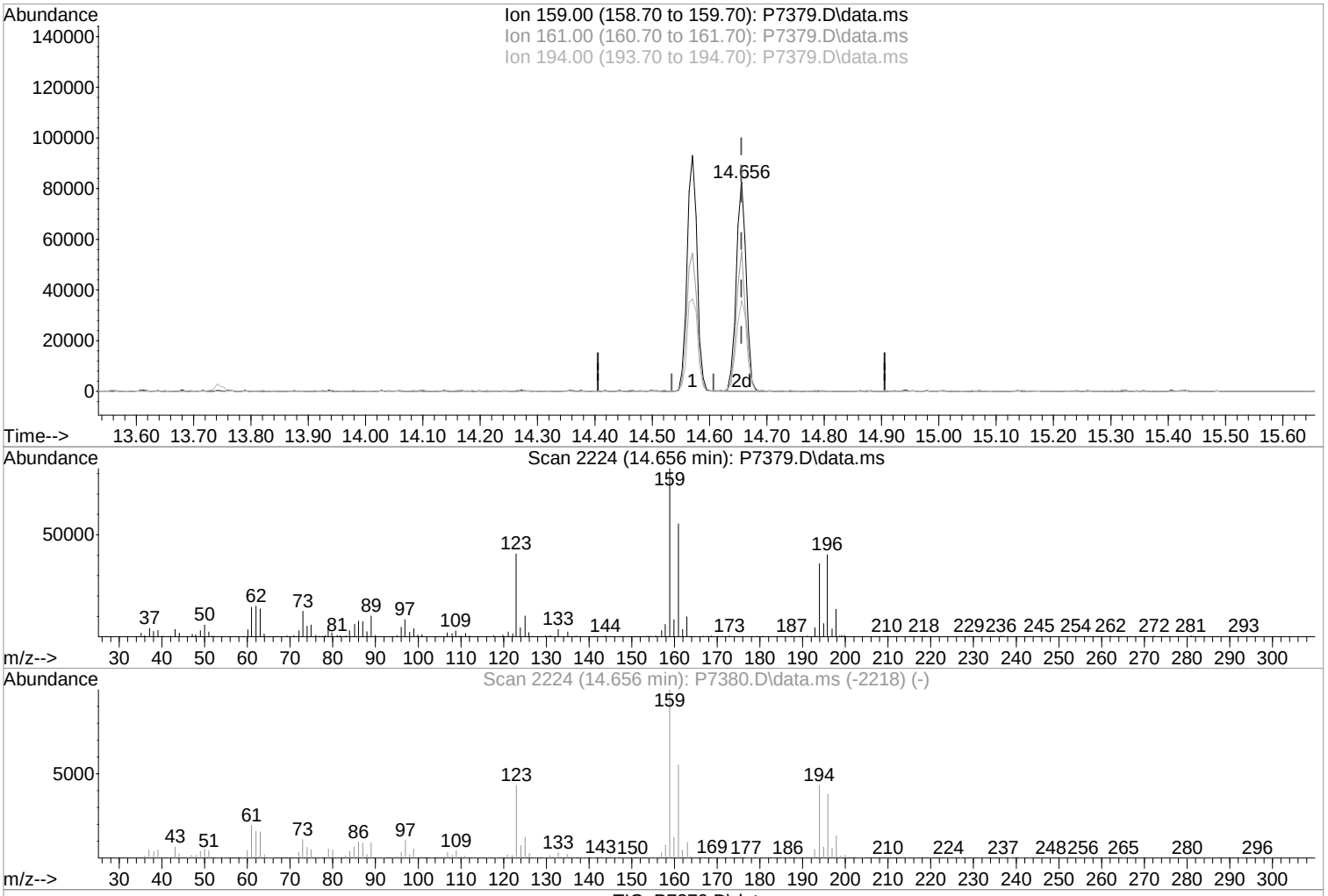
Quant Time: Jan 05 10:04:27 2017
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Quant Title : MS#12 - 8260B WATERS 10mL Purge
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Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.656min (+0.000) 21.77 ppb m

response 99424

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	67.10#
194.00	43.50	43.38
0.00	0.00	0.00

Manual Integration:

After

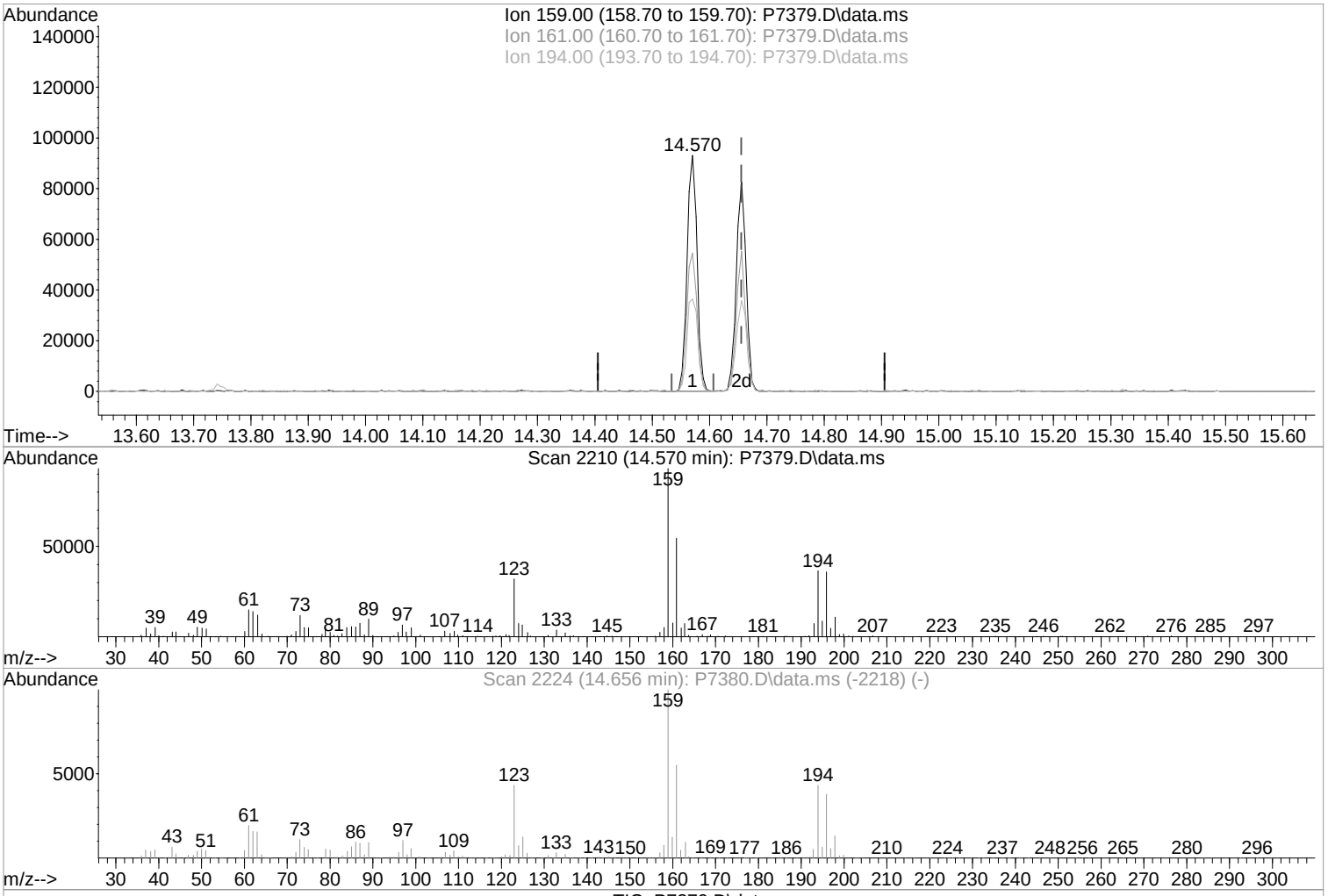
Wrong peak selected.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.570min (-0.085) 24.56 ppb

response 112156

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	58.64
194.00	43.50	39.16
0.00	0.00	0.00

Manual Integration:

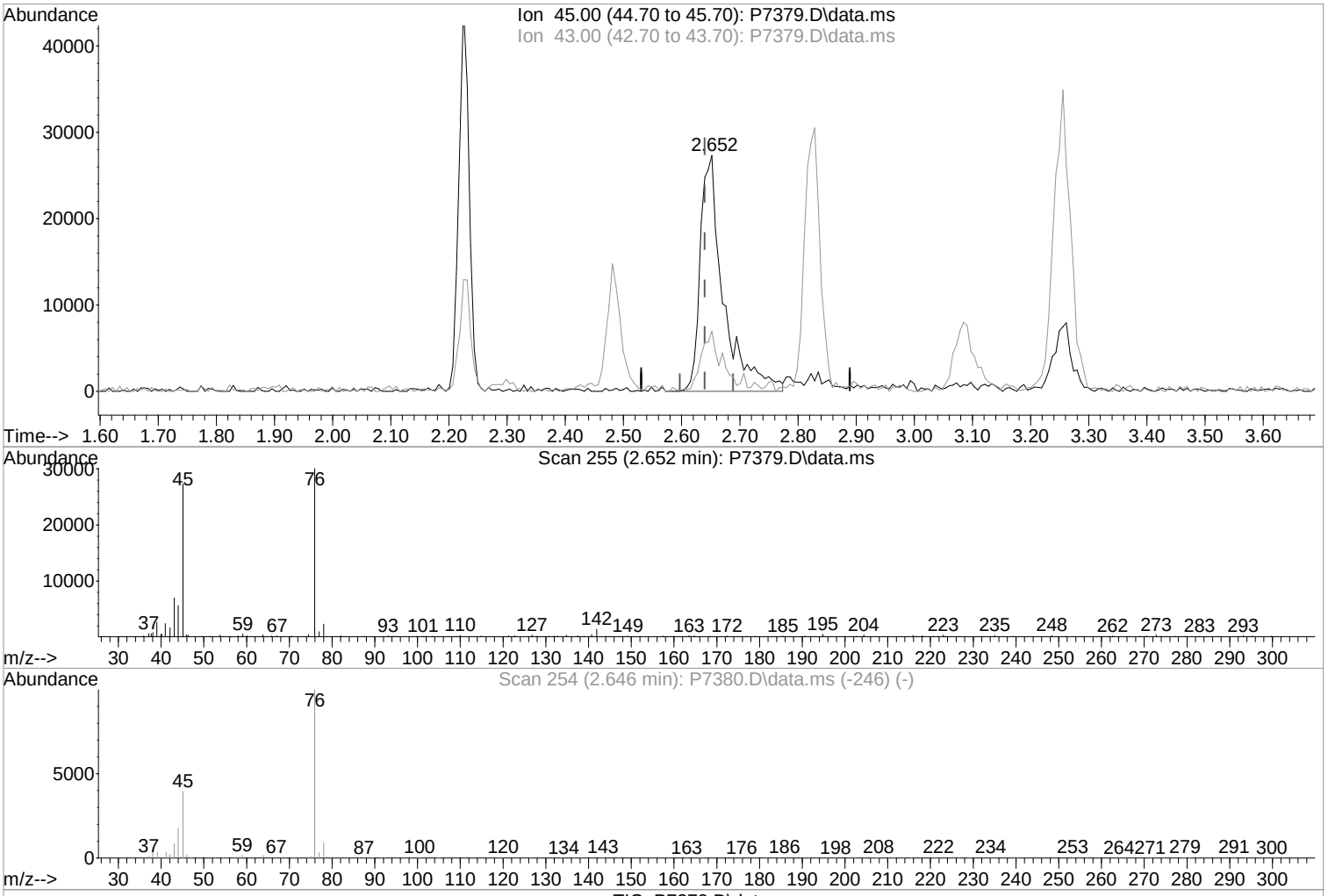
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(16) 2-Propanol

2.652min (+0.012) 423.10 ppb m

response 75775

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	25.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

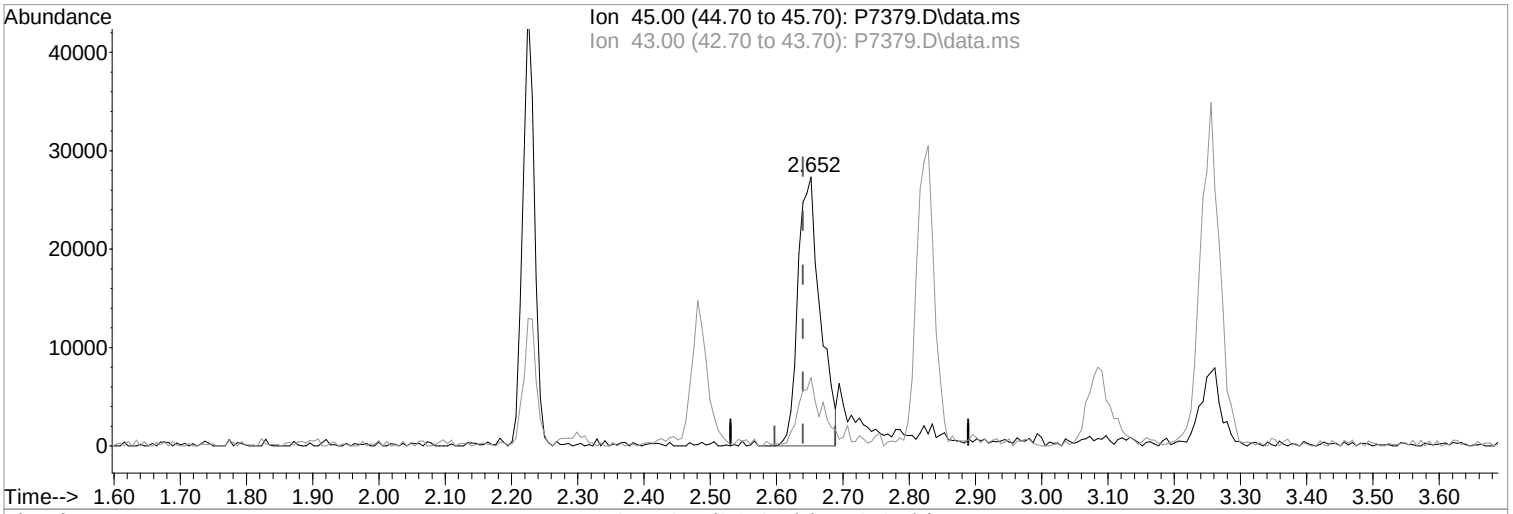
Poor integration.

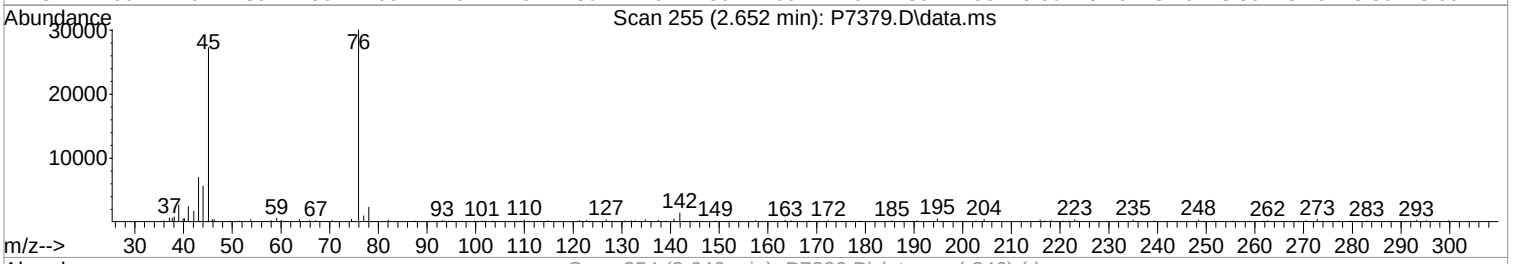
01/05/17

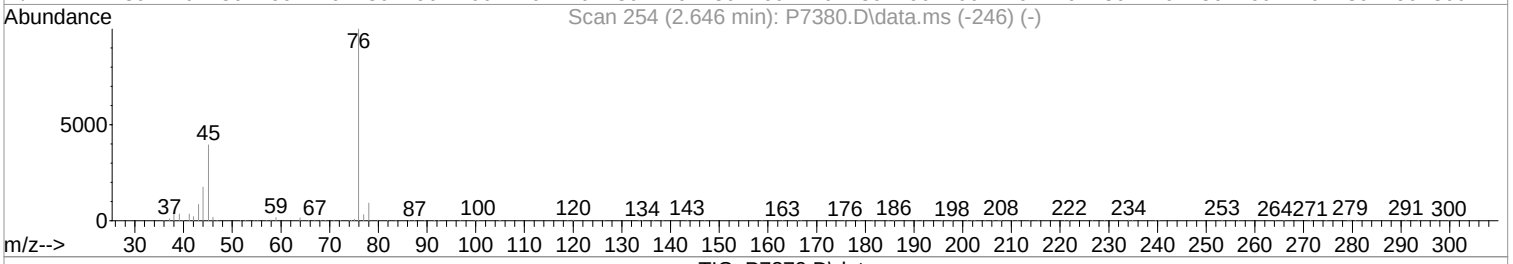
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7379.D\data.ms

(16) 2-Propanol

2.652min (+0.012) 355.50 ppb

response 63668

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	25.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

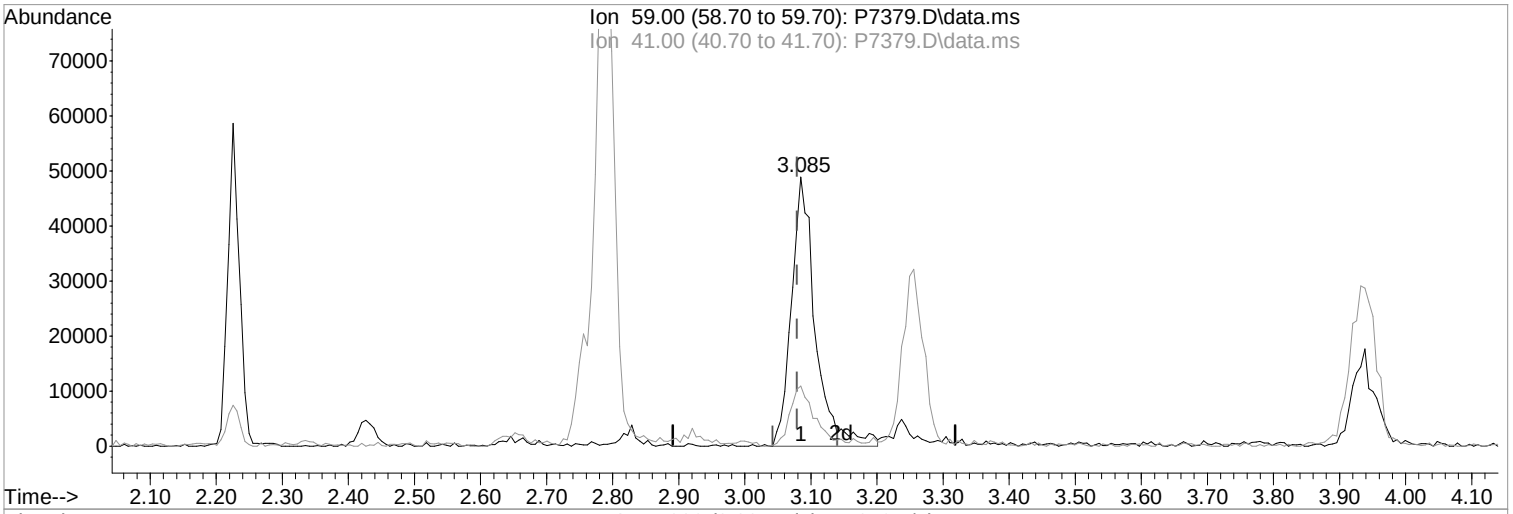
Before

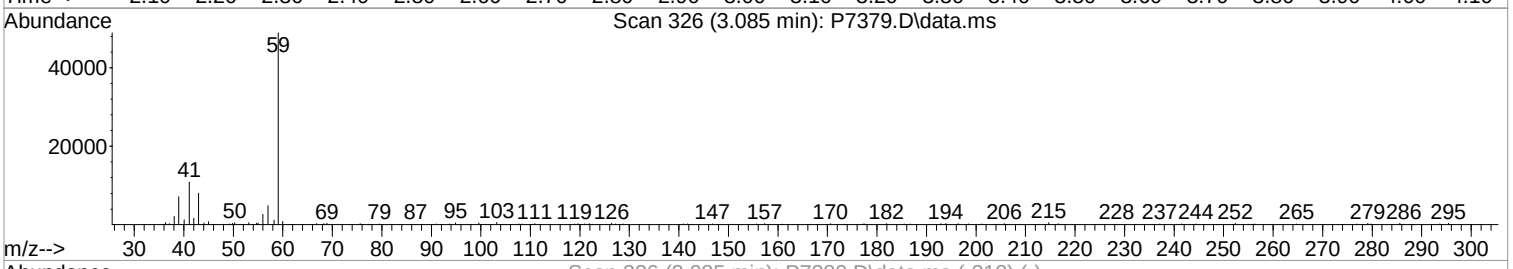
01/05/17

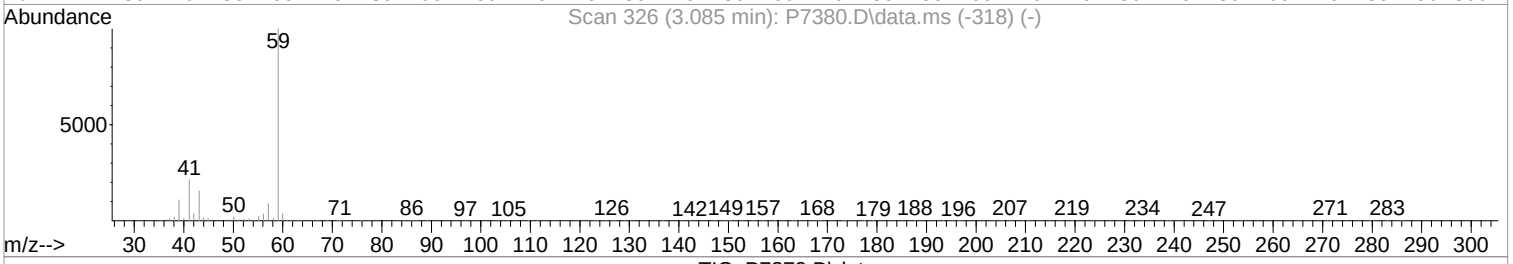
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7379.D\data.ms

(23) TBA

3.085min (+0.006) 397.75 ppb m

response 122986

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	22.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

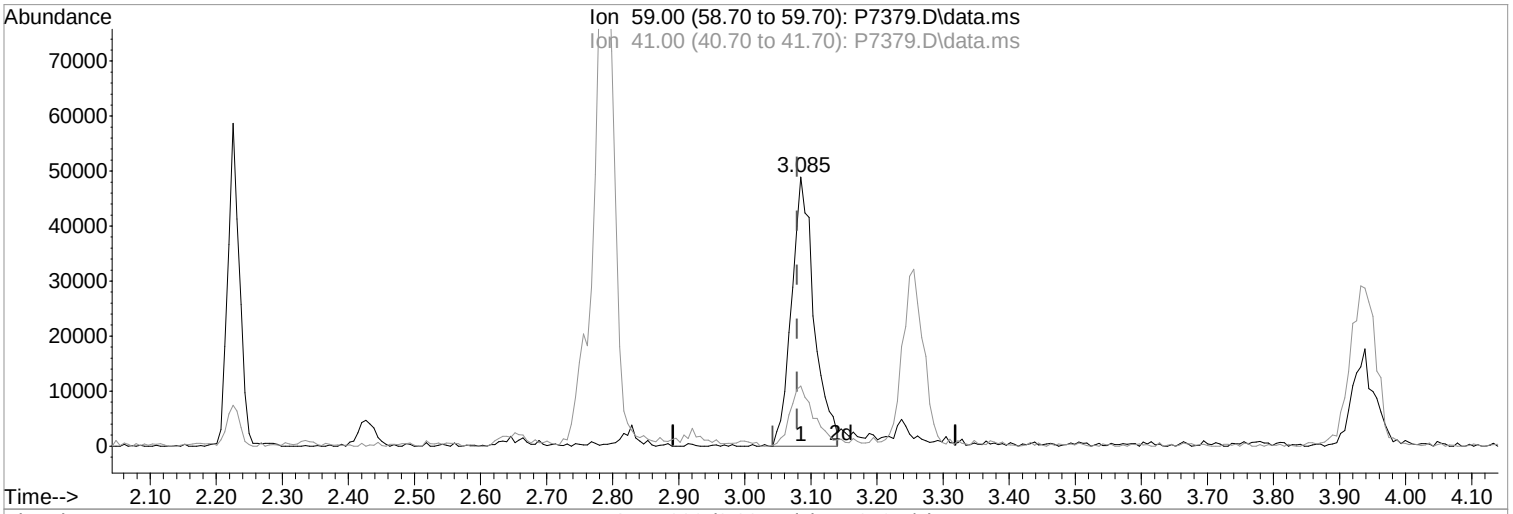
Split Peak

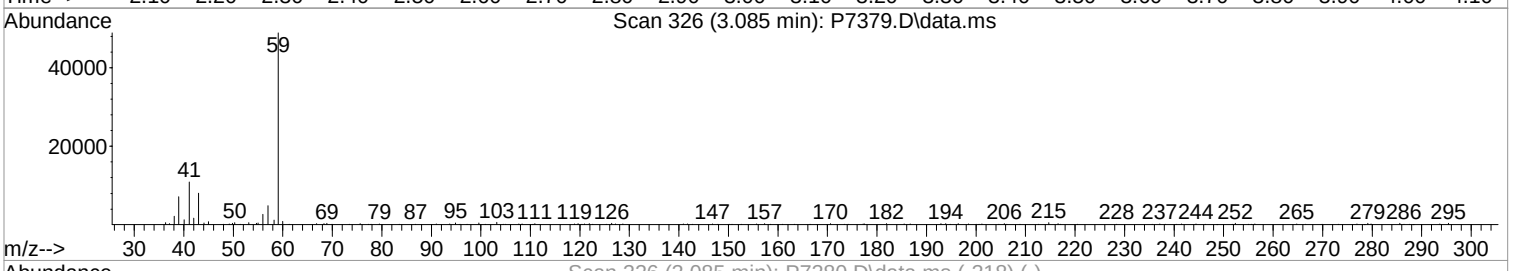
01/05/17

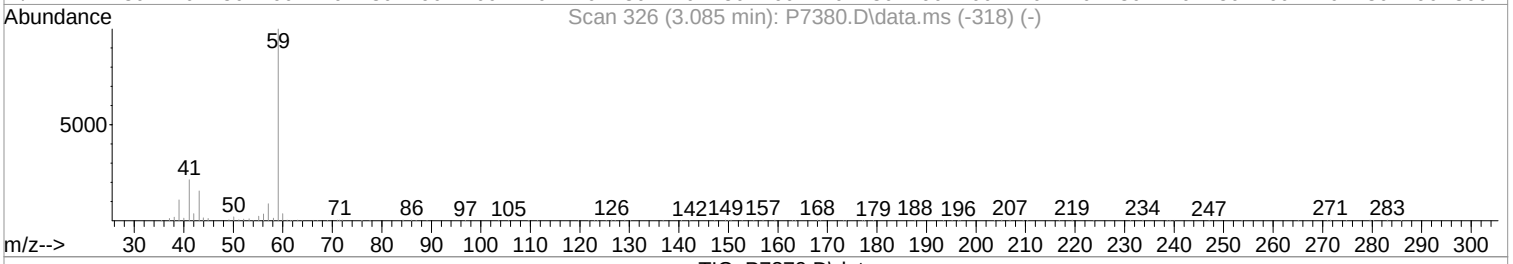
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7379.D\data.ms

(23) TBA

3.085min (+0.006) 374.13 ppb

response 115681

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	22.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

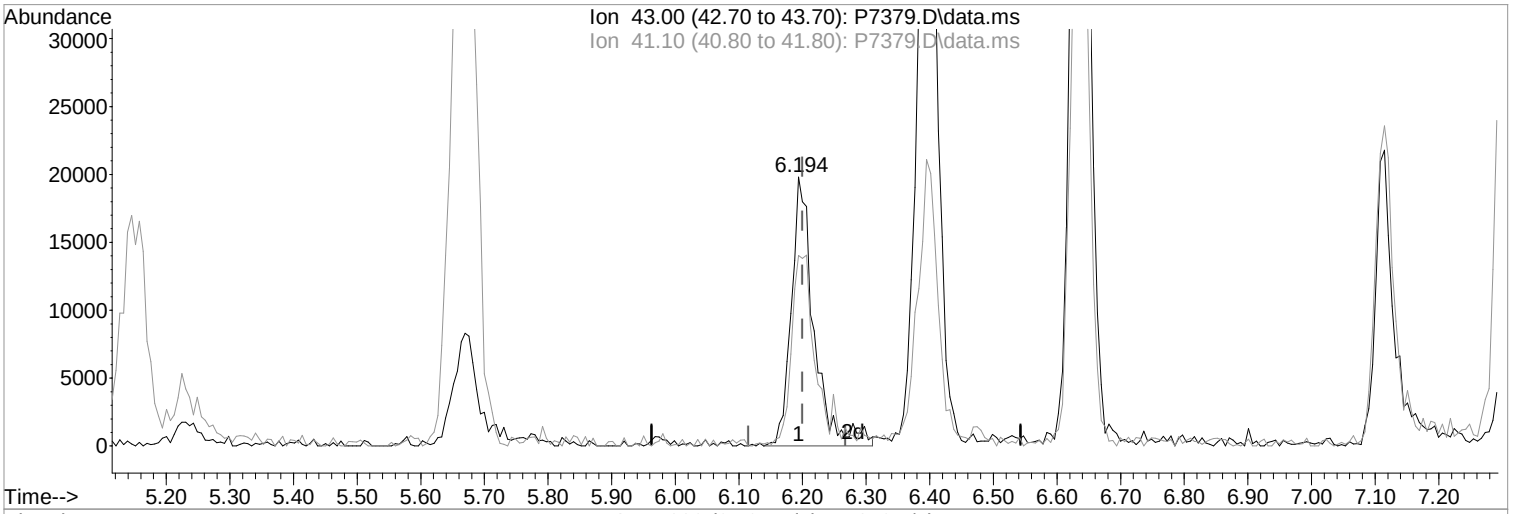
01/05/17

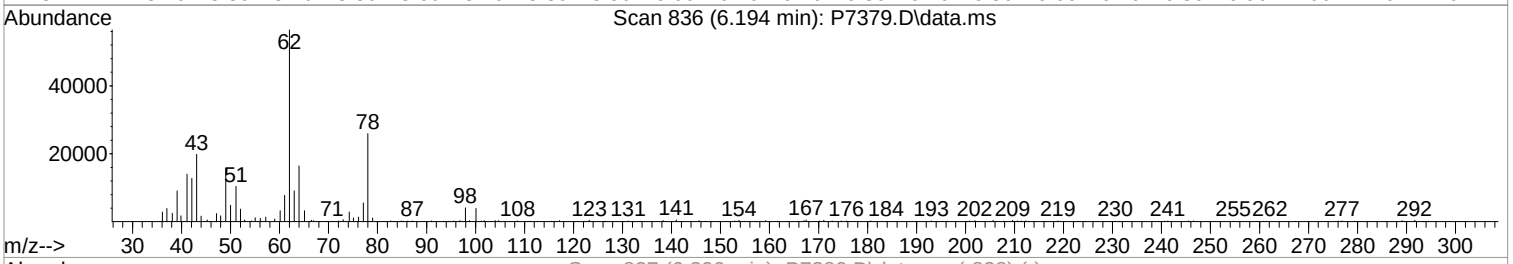
1st 01/05/17
2nd 01/05/17

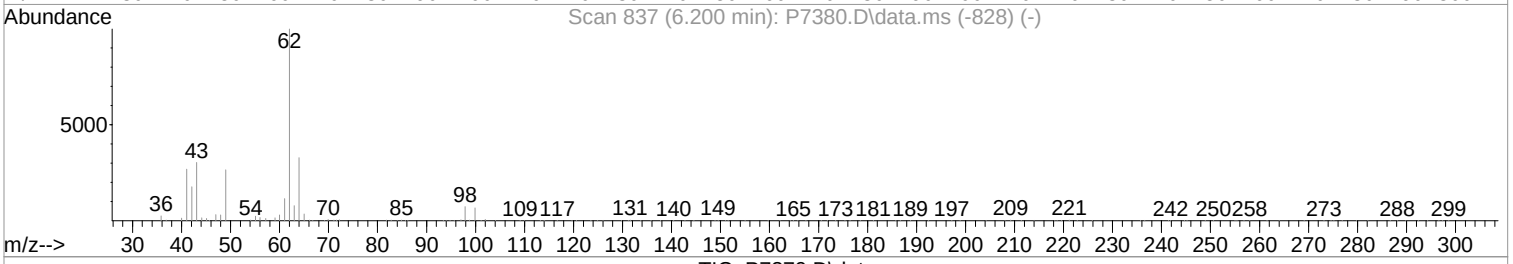
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7379.D\data.ms

(51) Iso-Butyl Alcohol

6.194min (-0.006) 366.75 ppb m

response 49178

Ion	Exp%	Act%
43.00	100	100
41.10	88.60	70.80
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

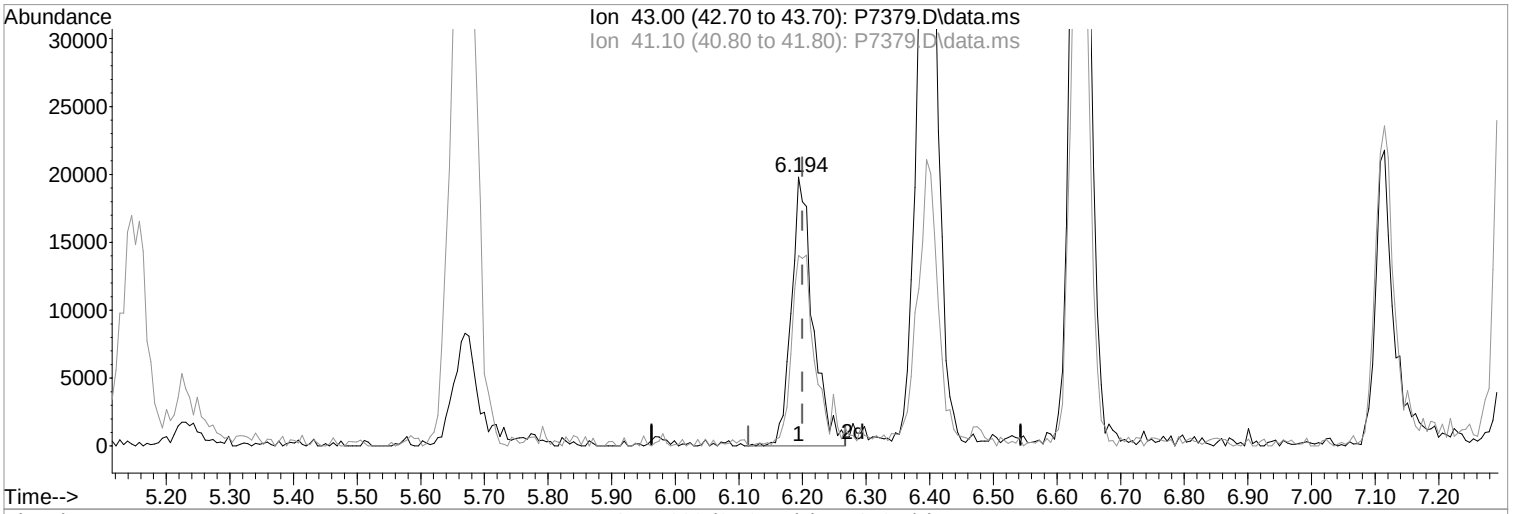
01/05/17

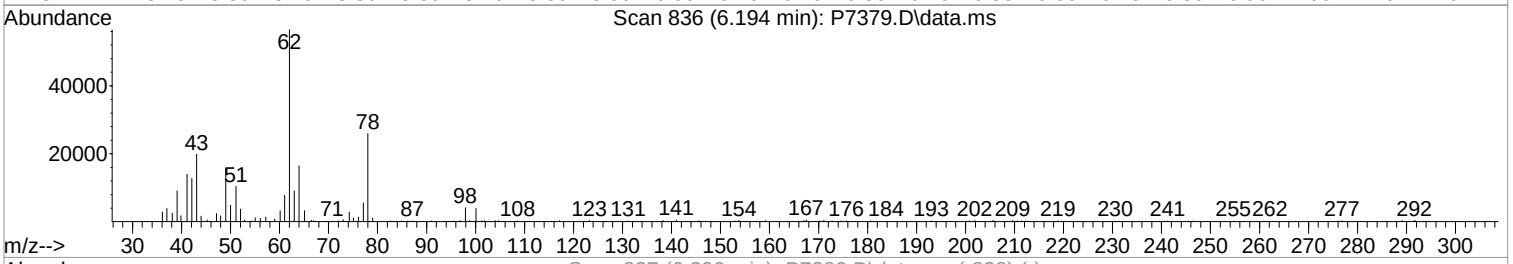
1st 01/05/17
2nd 01/05/17

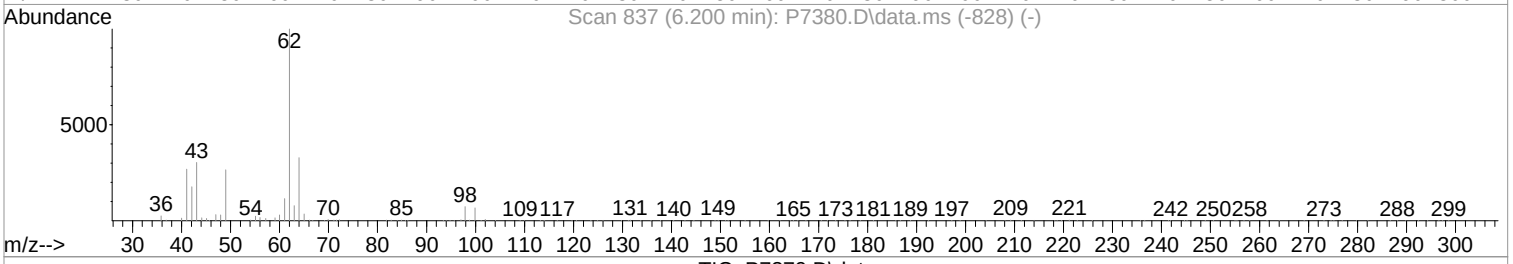
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7379.D\data.ms

(51) Iso-Butyl Alcohol

6.194min (-0.006) 349.04 ppb

response 46802

Ion	Exp%	Act%
43.00	100	100
41.10	88.60	70.80
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

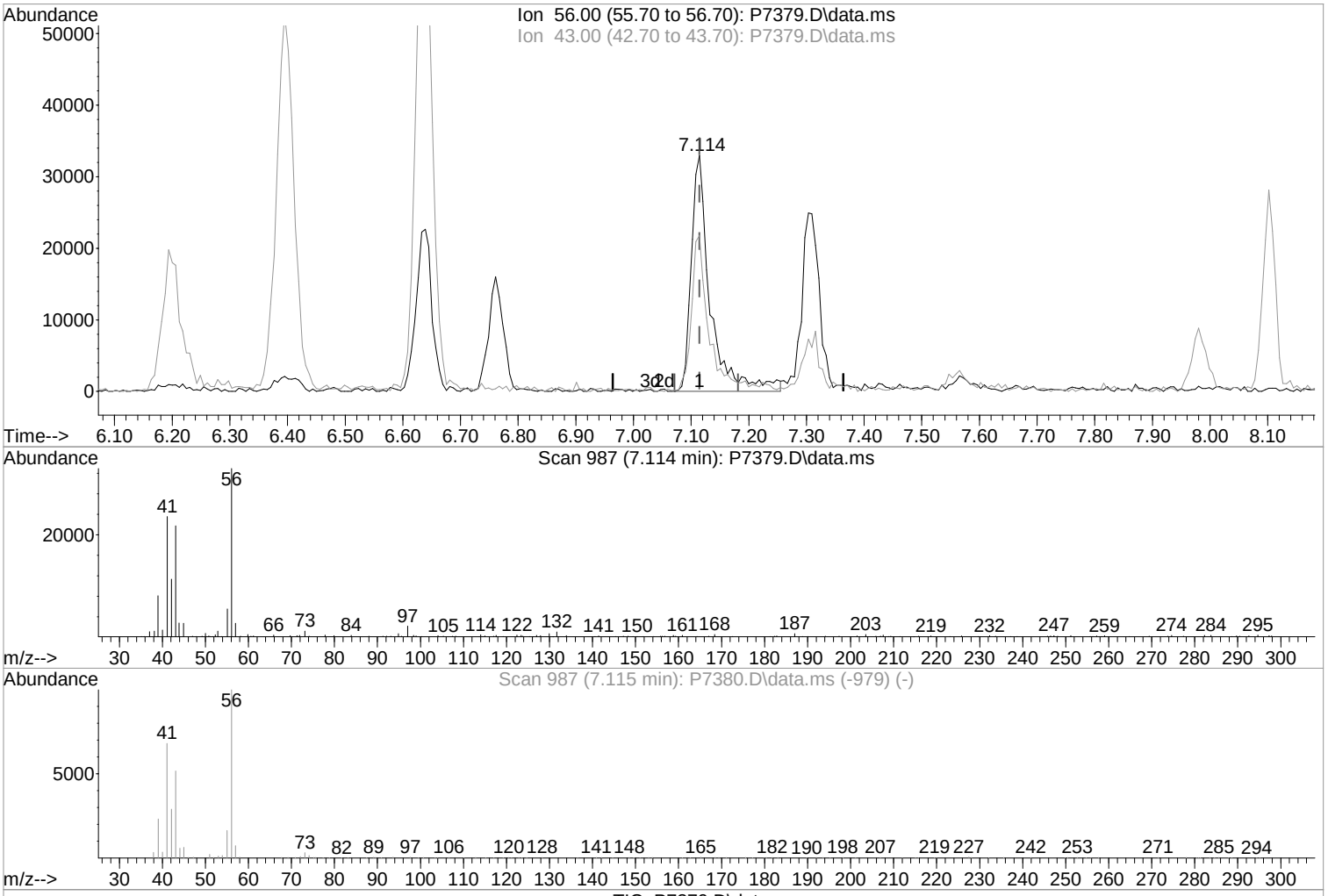
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(53) 1-Butanol

7.114min (+0.000) 970.61 ppb m

response 75367

Ion	Exp%	Act%
56.00	100	100
43.00	57.60	59.75
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

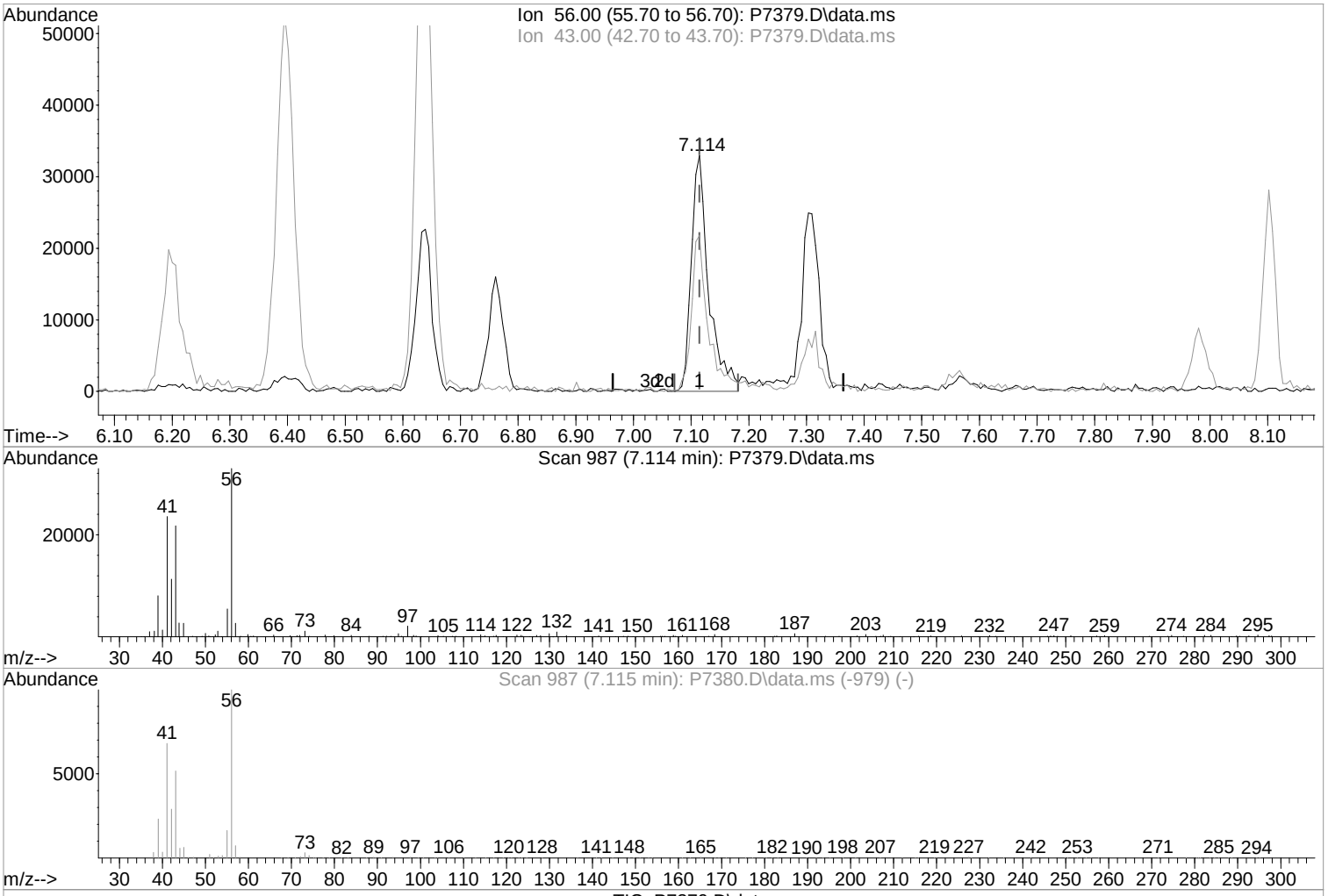
Poor integration.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(53) 1-Butanol

7.114min (+0.000) 890.72 ppb

response 69164

Ion	Exp%	Act%
56.00	100	100
43.00	57.60	65.11
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

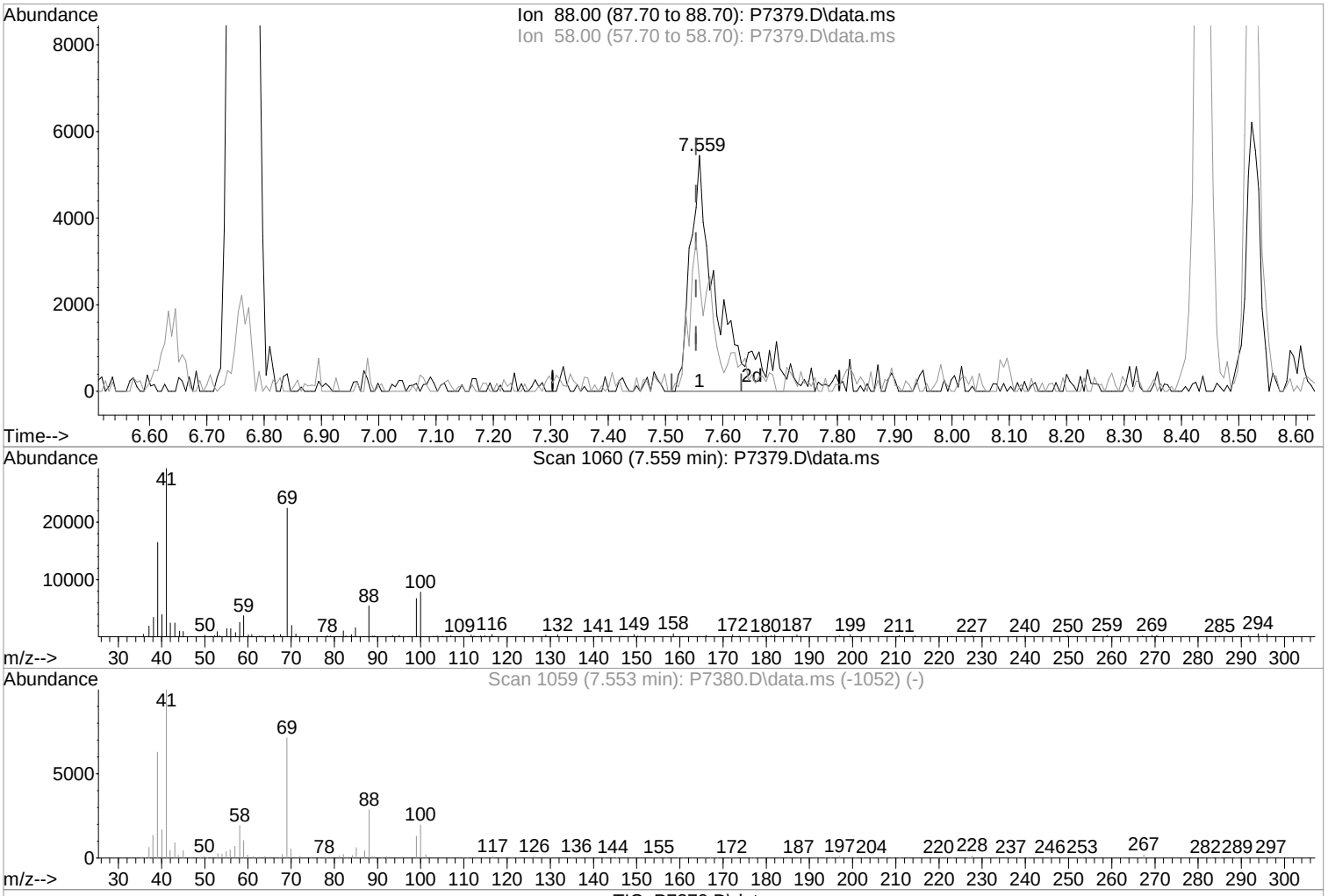
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(58) 1,4-Dioxane

7.559min (+0.006) 434.70 ppb m

response 19592

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	46.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

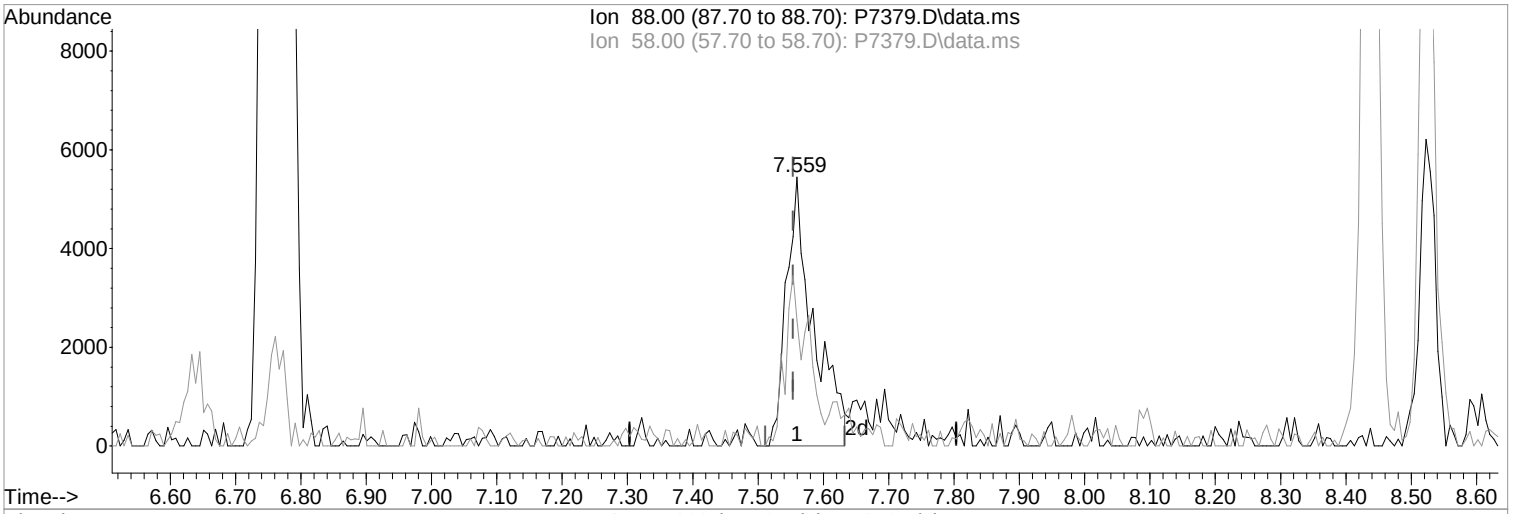
Poor integration.

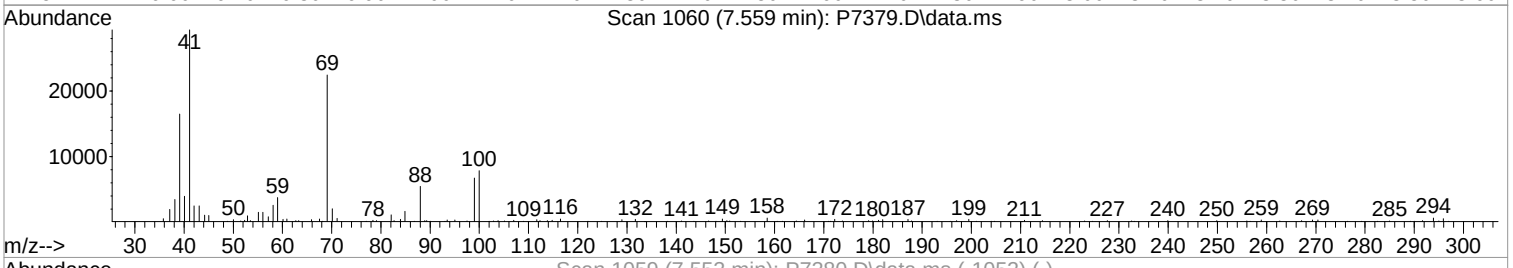
01/05/17

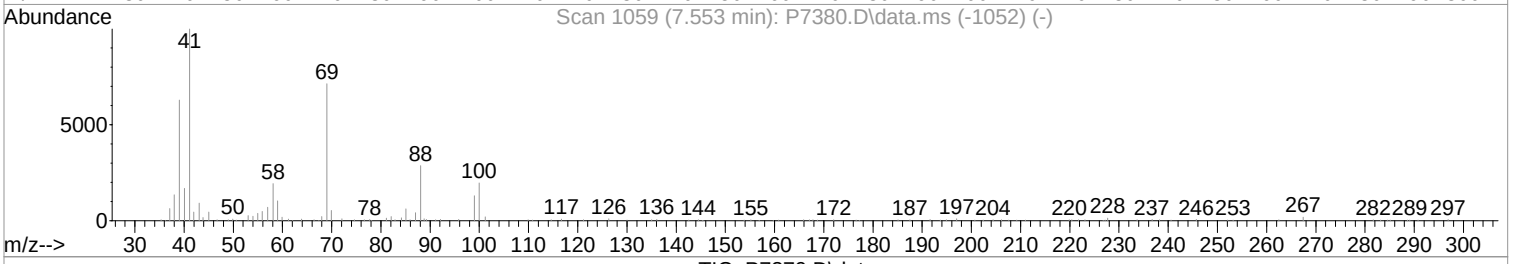
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7379.D\data.ms

(58) 1,4-Dioxane

7.559min (+0.006) 346.53 ppb

response 15618

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	46.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

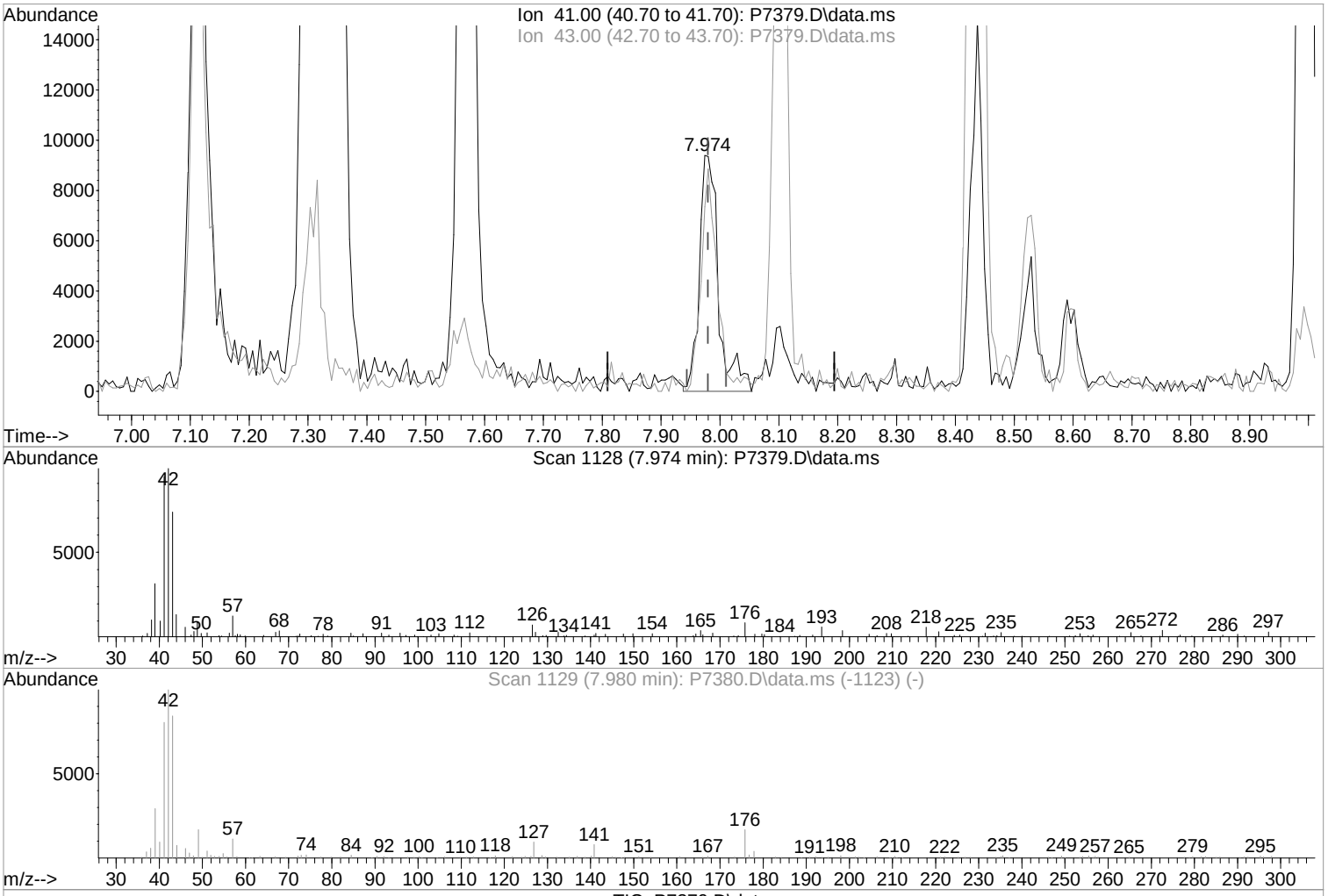
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(61) 2-Nitropropane

7.974min (-0.006) 35.21 ppb m

response 21044

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	78.20#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

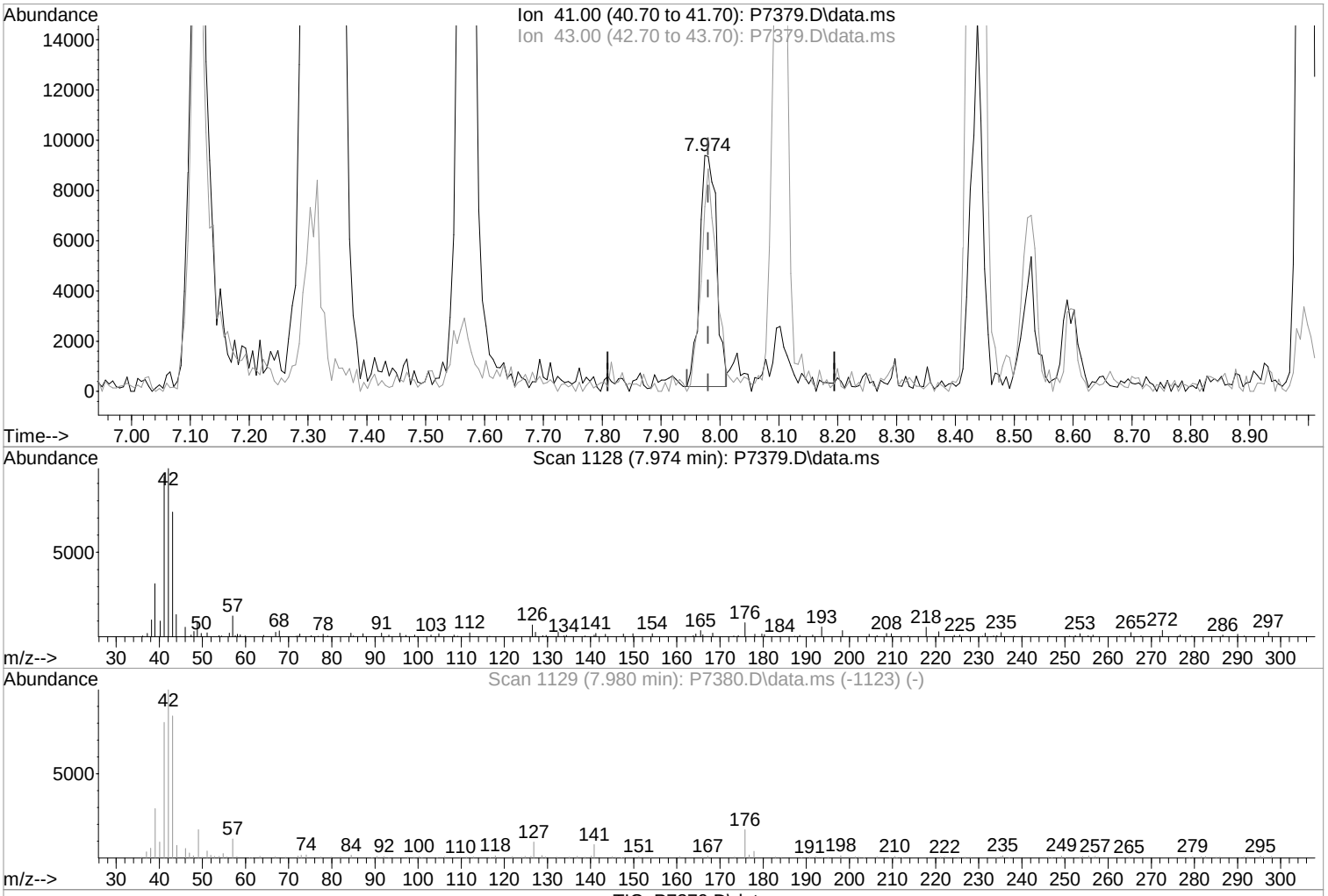
Split Peak

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 08:58:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7379.D\data.ms

(61) 2-Nitropropane

7.974min (-0.006) 30.34 ppb

response 18129

Ion	Exp%	Act%
41.00	100	100
43.00	104.90	78.20#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 10:08:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	768275	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1244519	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1216608	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	651166	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	641340	95.50	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 191.00%#				
48) surr1,1,2-dichloroetha...	6.090	65	703798	94.39	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 188.78%#				
65) SURR3,Toluene-d8	8.523	98	2639114	95.05	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 190.10%#				
70) SURR2,BFB	11.047	95	1007862	93.67	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 187.34%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	179130	19.16	ppb		97
3) Chloromethane	1.347	50	162860	19.44	ppb		100
4) Vinyl Chloride	1.427	62	153603	20.70	ppb		98
5) Bromomethane	1.683	94	70411	18.78	ppb		96
6) Chloroethane	1.762	64	81032	20.62	ppb		96
7) Freon 21	1.920	67	194398	21.03	ppb		98
8) Trichlorofluoromethane	1.969	101	166480	20.03	ppb		96
9) Diethyl Ether	2.225	59	70883	20.08	ppb		97
10) Freon 123a	2.231	67	114298	19.59	ppb		90
11) Freon 123	2.292	83	135018	20.09	ppb		97
12) Acrolein	2.335	56	60588	104.20	ppb		94
13) 1,1-Diclethene	2.426	96	100213	18.41	ppb		93
14) Freon 113	2.439	101	110721	18.83	ppb		98
15) Acetone	2.481	43	23438	20.73	ppb		93
16) 2-Propanol	2.652	45	75775m	423.10	ppb		
17) Iodomethane	2.567	142	188919	23.65	ppb		96
18) Carbon Disulfide	2.634	76	365061	22.00	ppb		99
19) Acetonitrile	2.756	40	13346	75.33	ppb	#	43
20) Allyl Chloride	2.786	76	61630	19.05	ppb		99
21) Methyl Acetate	2.829	43	54733	20.35	ppb		78
22) Methylene Chloride	2.920	84	111180	18.64	ppb		97
23) TBA	3.085	59	122986m	397.75	ppb		
24) Acrylonitrile	3.201	53	129813	96.92	ppb		95
25) Methyl-t-Butyl Ether	3.255	73	286149	19.97	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	116805	18.52	ppb		91
28) 1,1-Diclethane	3.786	63	196219	18.58	ppb		96
29) Vinyl Acetate	3.896	86	19799	19.25	ppb	#	79
30) DIPE	3.932	45	404633	20.62	ppb		97
31) 2-Chloro-1,3-Butadiene	3.920	53	195537	21.75	ppb		98
32) ETBE	4.524	59	341915	20.56	ppb		95
33) 2,2-Dichloropropane	4.688	77	152738	18.35	ppb		92
34) cis-1,2-Dichloroethene	4.700	96	121142	18.26	ppb		97
35) 2-Butanone	4.773	43	33767	20.61	ppb		91
36) Propionitrile	4.847	54	45083	88.51	ppb		96
37) Bromochloromethane	5.127	130	70787	19.43	ppb		91
38) Methacrylonitrile	5.151	67	29114	17.77	ppb		94
39) Tetrahydrofuran	5.237	42	23297	21.91	ppb		90
40) Chloroform	5.322	83	195610	19.04	ppb		97
41) 1,1,1-Trichloroethane	5.590	97	167737	18.62	ppb		78

1st 01/05/17
2nd 01/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 10:08:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	302367	20.58	ppb		99
44) Cyclohexane	5.670	41	130863	19.94	ppb		86
46) Carbontetrachloride	5.859	121	40014	17.33	ppb		99
47) 1,1-Dichloropropene	5.865	75	165017	19.90	ppb		89
49) Benzene	6.163	78	438403	19.91	ppb		99
50) 1,2-Dichloroethane	6.206	62	147816	19.07	ppb		94
51) Iso-Butyl Alcohol	6.194	43	49178m	366.75	ppb		
52) n-Heptane	6.639	43	143942	19.41	ppb		95
53) 1-Butanol	7.114	56	75367m	970.61	ppb		
54) Trichloroethene	7.078	130	122273	19.04	ppb		97
55) Methylcyclohexane	7.303	55	155439	20.46	ppb		94
56) 1,2-Diclpropane	7.346	63	121022	19.40	ppb		98
57) Dibromomethane	7.486	93	59353	18.83	ppb		94
58) 1,4-Dioxane	7.559	88	19592m	434.70	ppb		
59) Methyl Methacrylate	7.572	69	53392	17.86	ppb		91
60) Bromodichloromethane	7.706	83	142337	18.57	ppb		98
61) 2-Nitropropane	7.974	41	21044m	35.21	ppb		
62) 2-Chloroethylvinyl Ether	8.102	63	60579	20.23	ppb		96
63) cis-1,3-Dichloropropene	8.236	75	178352	19.84	ppb		89
64) 4-Methyl-2-pentanone	8.437	43	80866	20.61	ppb		87
66) Toluene	8.596	91	510705	19.81	ppb		96
67) trans-1,3-Dichloropropene	8.858	75	142981	19.38	ppb		97
68) Ethyl Methacrylate	8.992	69	115208	20.22	ppb		97
69) 1,1,2-Trichloroethane	9.041	97	87293	19.96	ppb		94
72) Tetrachloroethene	9.175	164	101809	19.29	ppb		94
73) 2-Hexanone	9.321	43	56383	20.58	ppb		97
74) 1,3-Dichloropropane	9.206	76	166019	20.17	ppb		95
75) Dibromochloromethane	9.425	129	91575	19.47	ppb		99
76) N-Butyl Acetate	9.474	43	137131	20.51	ppb		96
77) 1,2-Dibromoethane	9.529	107	84997	19.81	ppb		91
78) Chlorobenzene	10.010	112	333833	19.53	ppb		99
79) 3-CBTF	10.029	180	189153	19.56	ppb		91
80) 4-CBTF	10.083	180	177031	19.94	ppb		90
81) 1,1,1,2-Tetrachloroethane	10.096	131	108052	19.03	ppb		98
82) Ethylbenzene	10.126	106	184997	19.47	ppb		94
83) (m+p)Xylene	10.242	106	447854	39.98	ppb		98
84) o-Xylene	10.589	106	223704	20.04	ppb		97
85) Styrene	10.602	104	372769	19.97	ppb		96
87) Bromoform	10.754	173	47233	20.41	ppb		95
88) 2-CBTF	10.833	180	187615	20.95	ppb		99
89) Isopropylbenzene	10.925	105	558956	21.00	ppb		97
90) Cyclohexanone	10.986	55	205318	438.53	ppb		98
91) trans-1,4-Dichloro-2-B...	11.230	53	25063	17.80	ppb		95
92) 1,1,2,2-Tetrachloroethane	11.175	83	106044	20.82	ppb		91
93) Bromobenzene	11.169	156	148209	20.51	ppb		96
94) 1,2,3-Trichloropropane	11.205	110	32654	20.03	ppb		94
95) n-Propylbenzene	11.272	91	654441	21.18	ppb		99
96) 2-Chlorotoluene	11.339	91	372832	20.16	ppb		99
97) 3-Chlorotoluene	11.388	91	444650	21.84	ppb	#	98
98) 4-Chlorotoluene	11.431	91	452320	20.98	ppb		98
99) 1,3,5-Trimethylbenzene	11.425	105	489368	21.21	ppb		97
100) tert-Butylbenzene	11.699	119	397886	21.07	ppb		98
101) 1,2,4-Trimethylbenzene	11.736	105	505649	21.36	ppb		100
102) 3,4-DCBTF	11.796	214	143122	20.62	ppb		95
103) sec-Butylbenzene	11.876	105	584872	21.07	ppb		99
104) p-Isopropyltoluene	11.998	119	488487	21.03	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 10:08:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

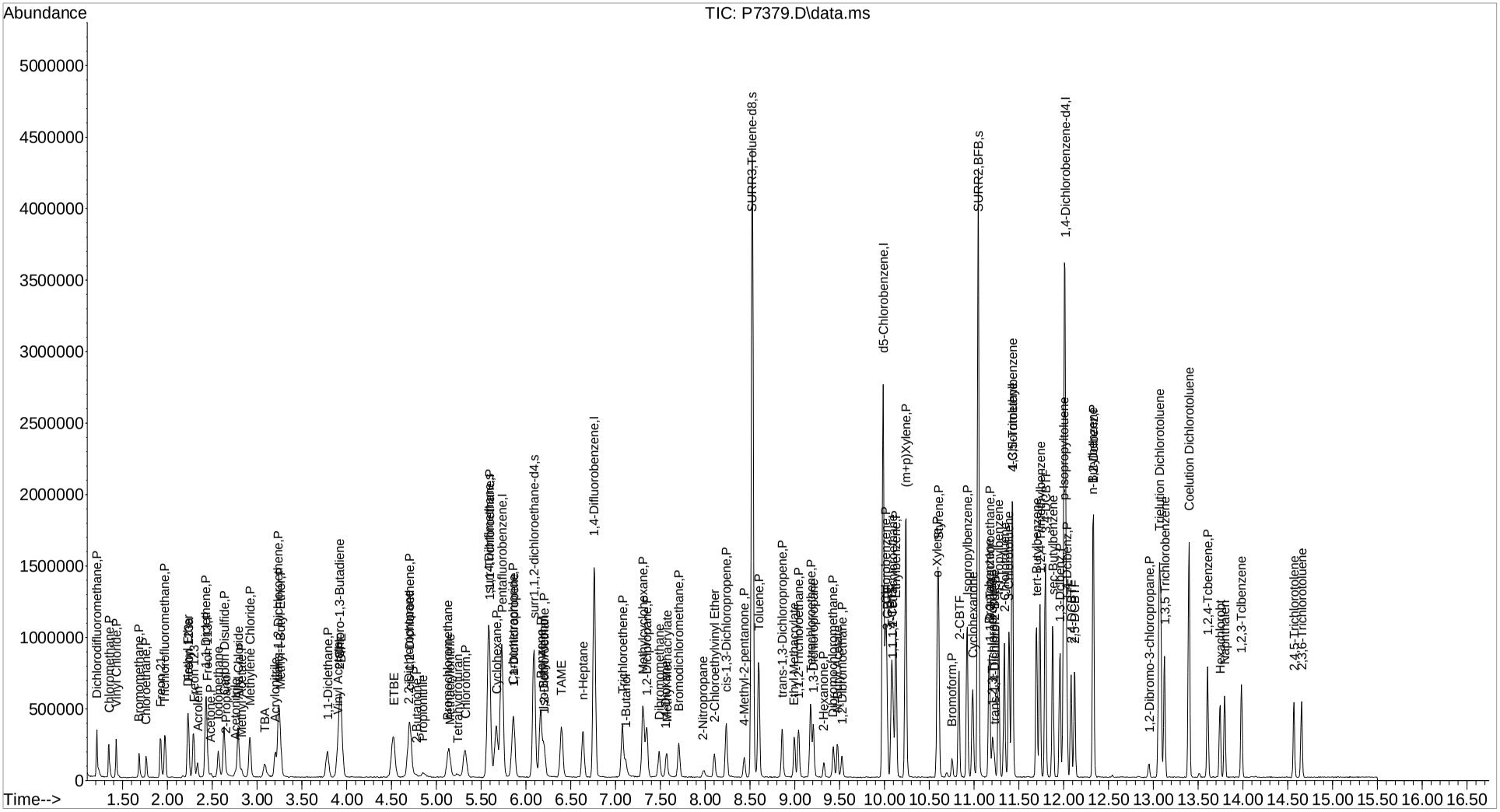
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	291591	21.11	ppb	98
106) 1,4-Dclbenz	12.034	146	286264	19.86	ppb	99
107) 2,4-DCBTF	12.083	214	132012	20.65	ppb	95
108) 2,5-DCBTF	12.126	214	143968	21.23	ppb	97
109) n-Butylbenzene	12.327	91	446942	21.10	ppb	100
110) 1,2-Dclbenz	12.333	146	270036	20.91	ppb	93
111) 1,2-Dibromo-3-chloropr...	12.955	157	17193	17.27	ppb	97
112) Trielution Dichlorotol...	13.071	125	738290	66.44	ppb	99
113) 1,3,5 Trichlorobenzene	13.126	180	205336	20.85	ppb	98
114) Coelution Dichlorotoluene	13.400	125	513881	42.80	ppb	97
115) 1,2,4-Tcbenzene	13.607	180	179626	20.96	ppb	95
116) Hexachlorobt	13.747	225	72344	18.54	ppb	92
117) Naphthalen	13.796	128	339912	21.49	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	145089	20.56	ppb	96
119) 2,4,5-Trichlorotolene	14.570	159	112156	20.46	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	99424m	21.77	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7379.D
Acq On : 4 Jan 2017 3:23 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

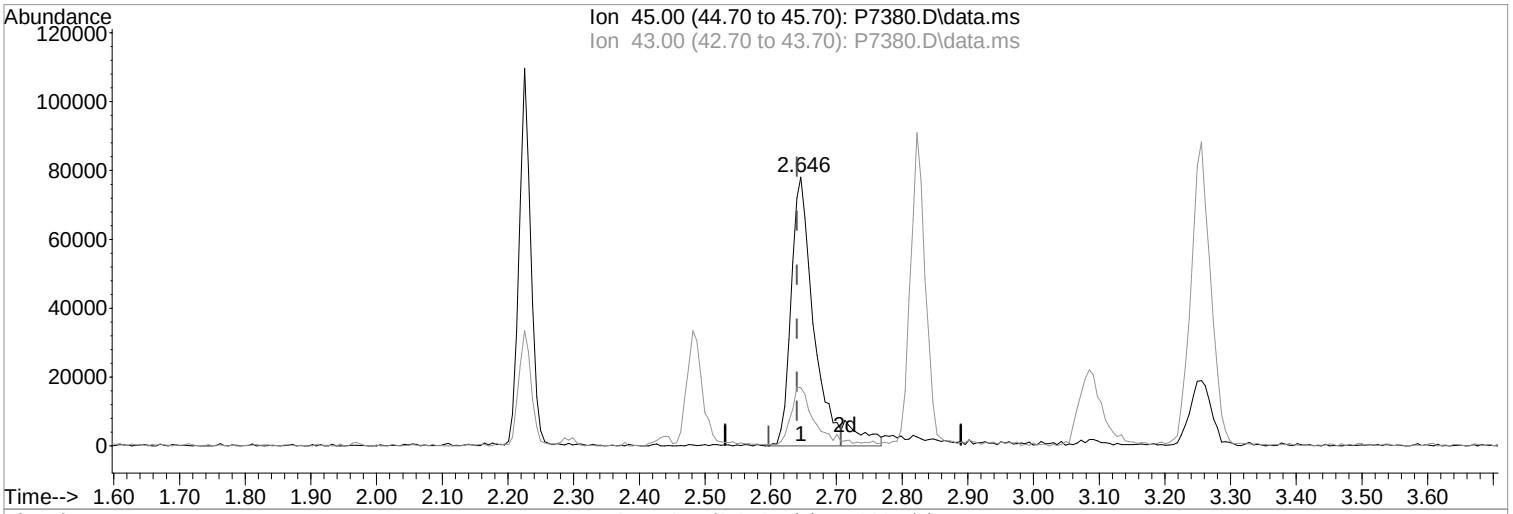
Quant Time: Jan 05 10:08:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

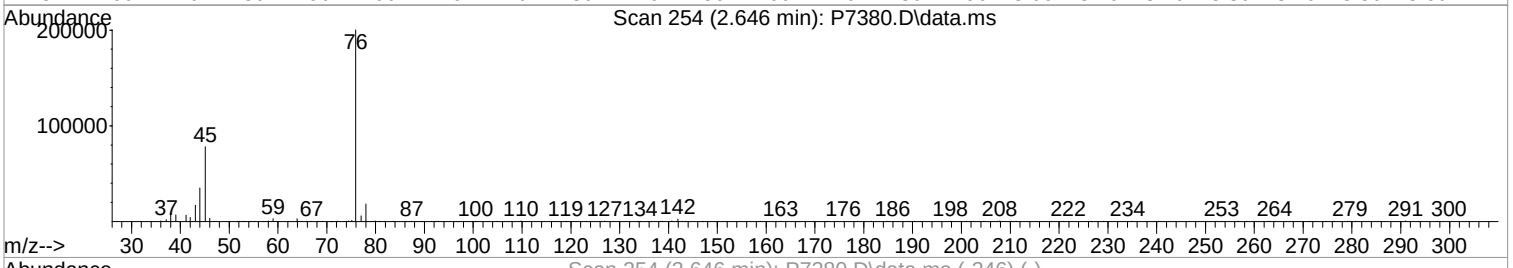


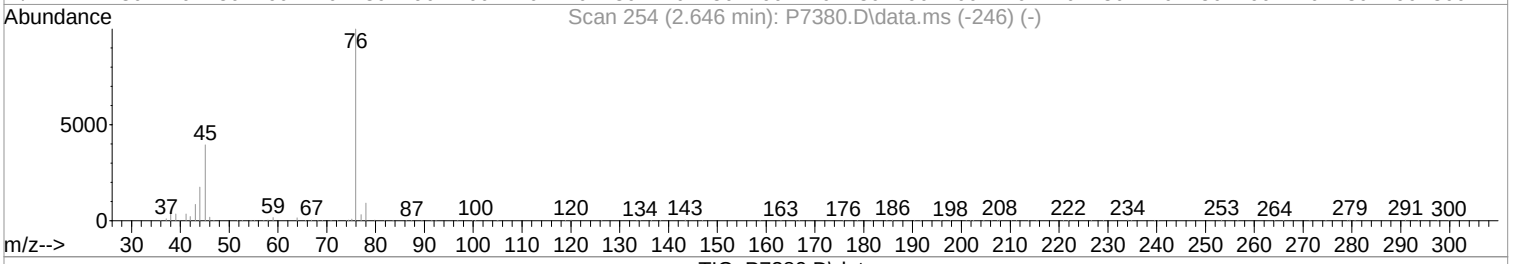
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7380.D\data.ms

(16) 2-Propanol

2.646min (+0.006) 1068.44 ppb m

response 196255

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	21.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

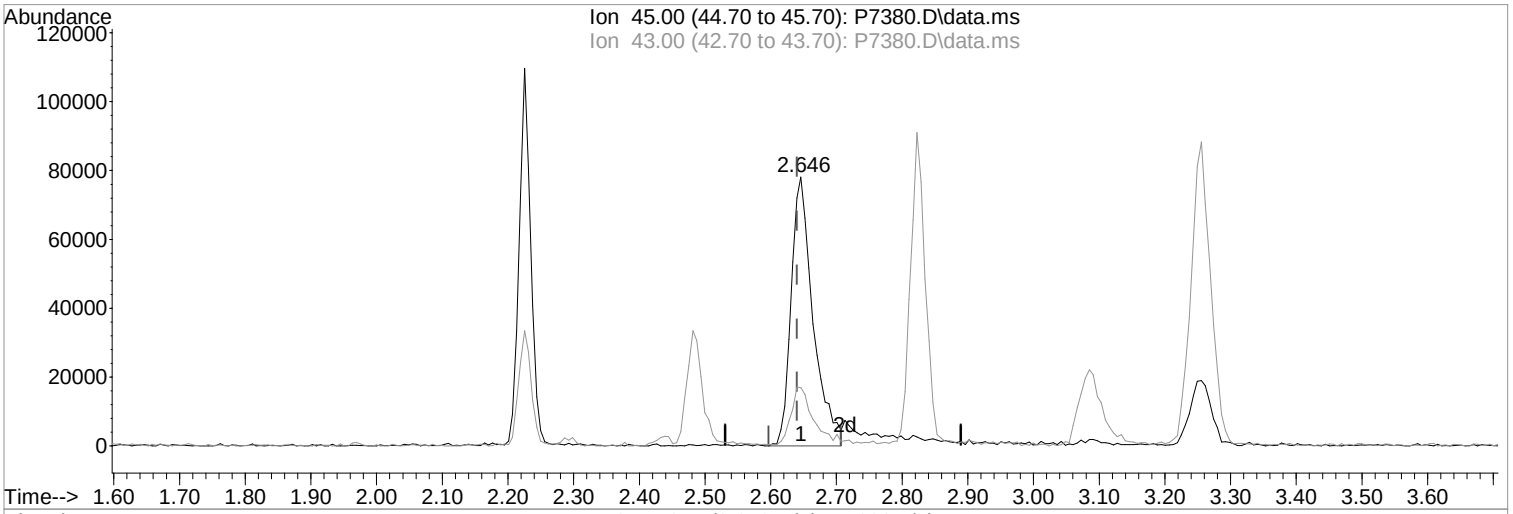
Poor integration.

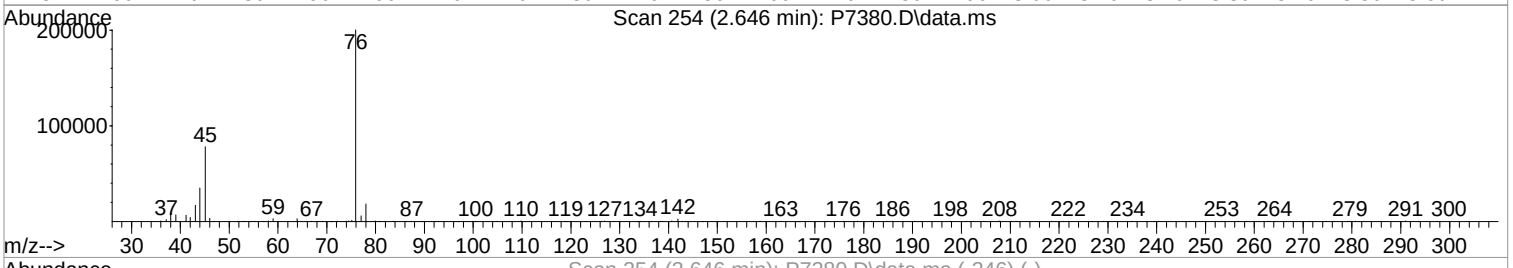
01/05/17

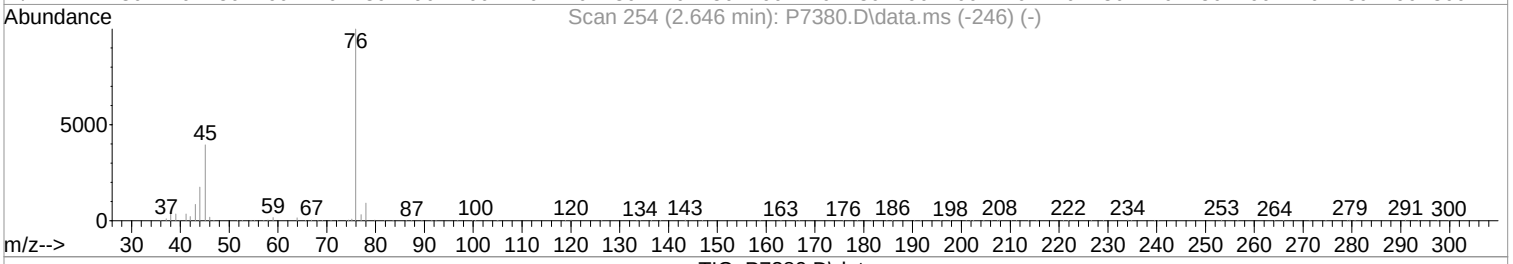
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7380.D\data.ms

(16) 2-Propanol

2.646min (+0.006) 985.31 ppb

response 180985

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	21.77
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

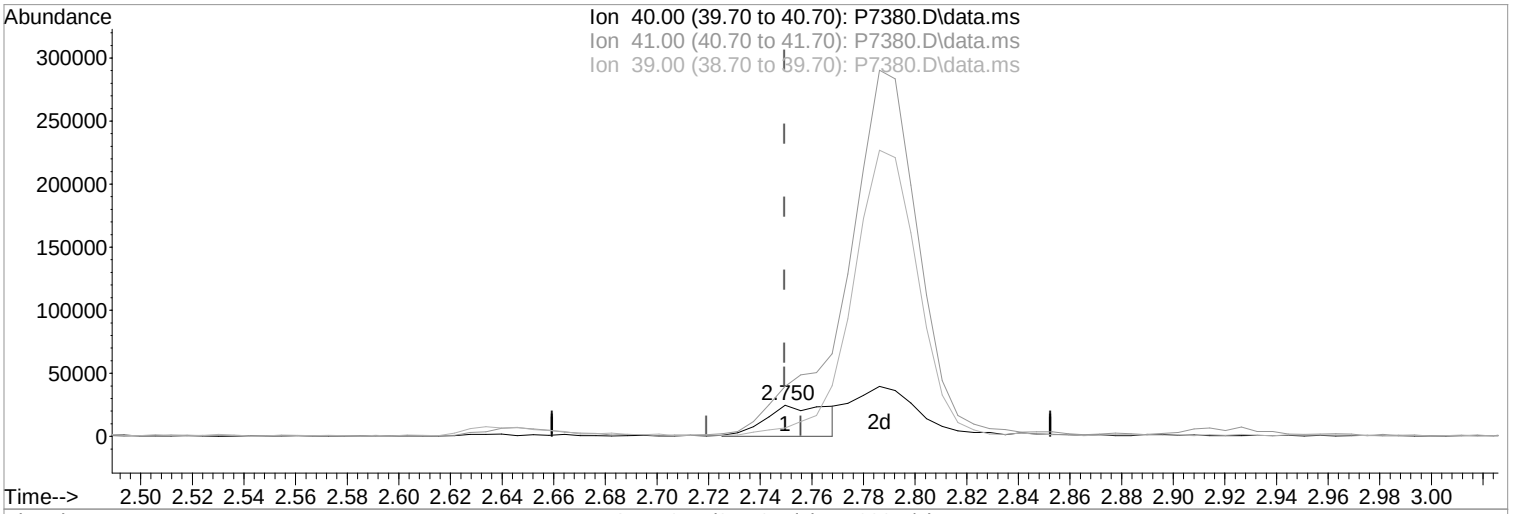
Before

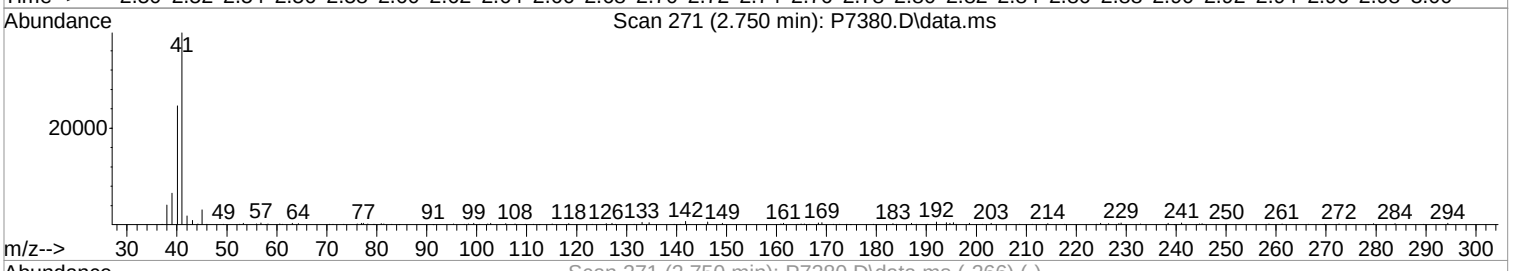
01/05/17

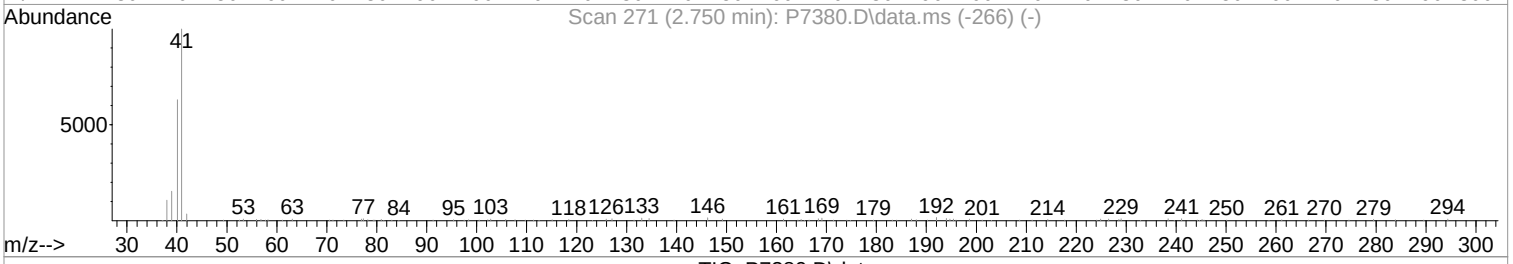
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7380.D\data.ms

(19) Acetonitrile

2.750min (+0.000) 238.27 ppb m

response 43294

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	161.55
39.00	26.70	26.65
0.00	0.00	0.00

Manual Integration:

After

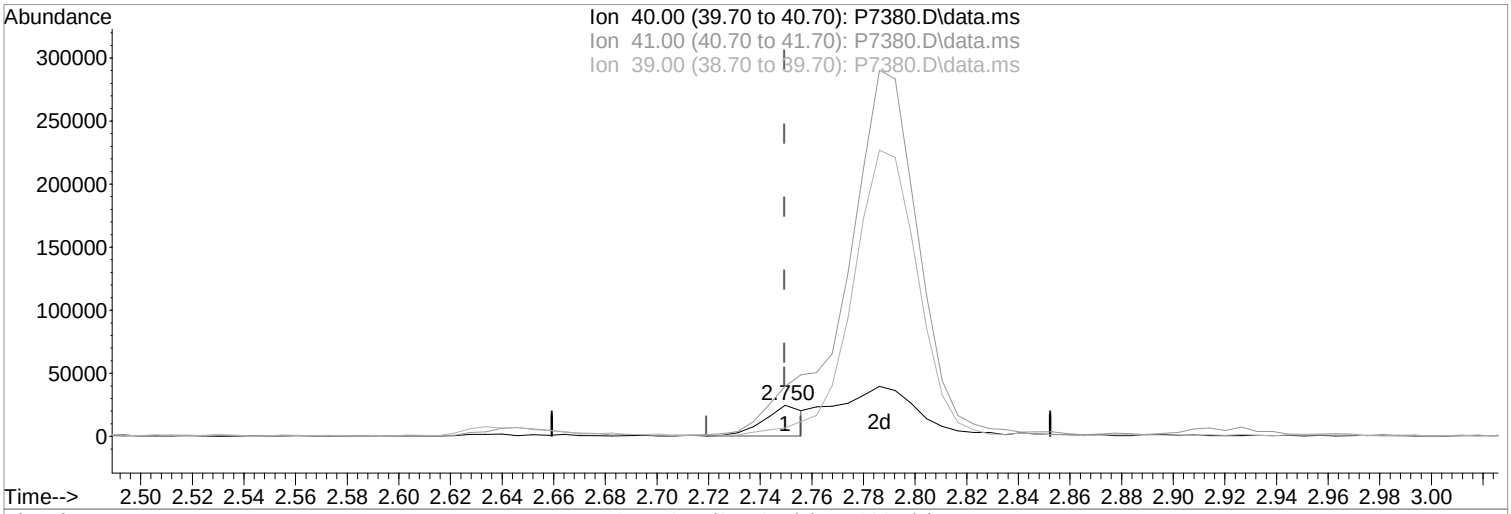
Poor integration.

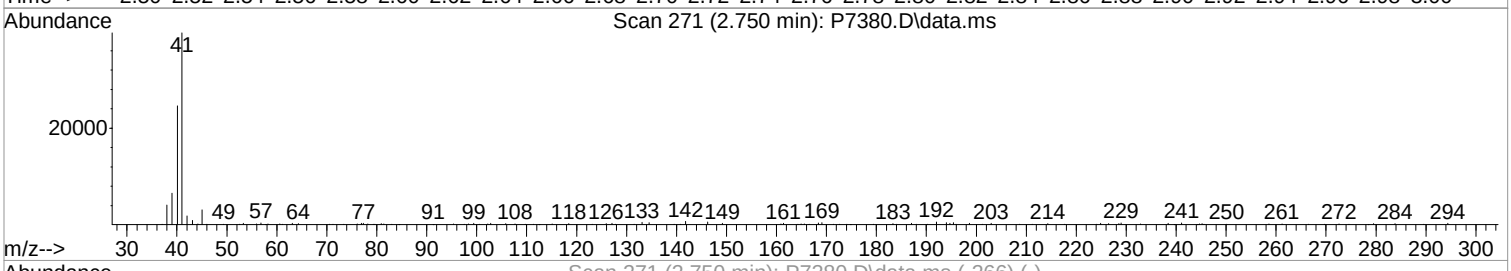
01/05/17

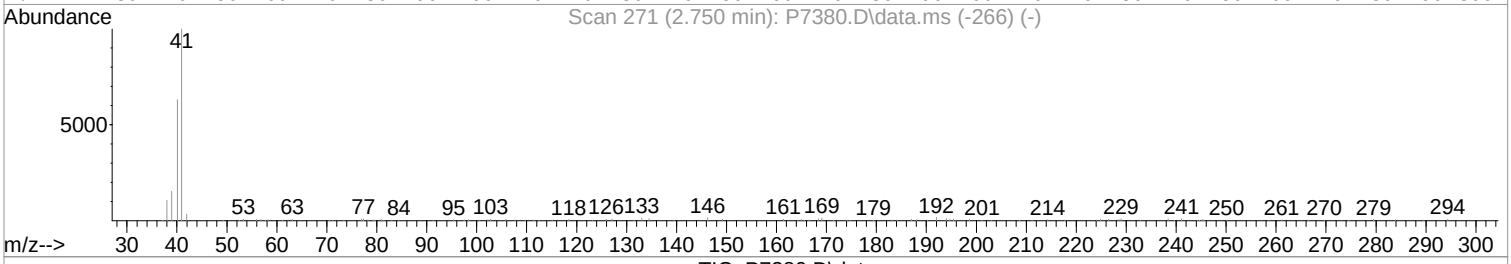
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7380.D\data.ms

(19) Acetonitrile

2.750min (+0.000) 139.48 ppb

response 25344

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	161.55
39.00	26.70	26.65
0.00	0.00	0.00

Manual Integration:

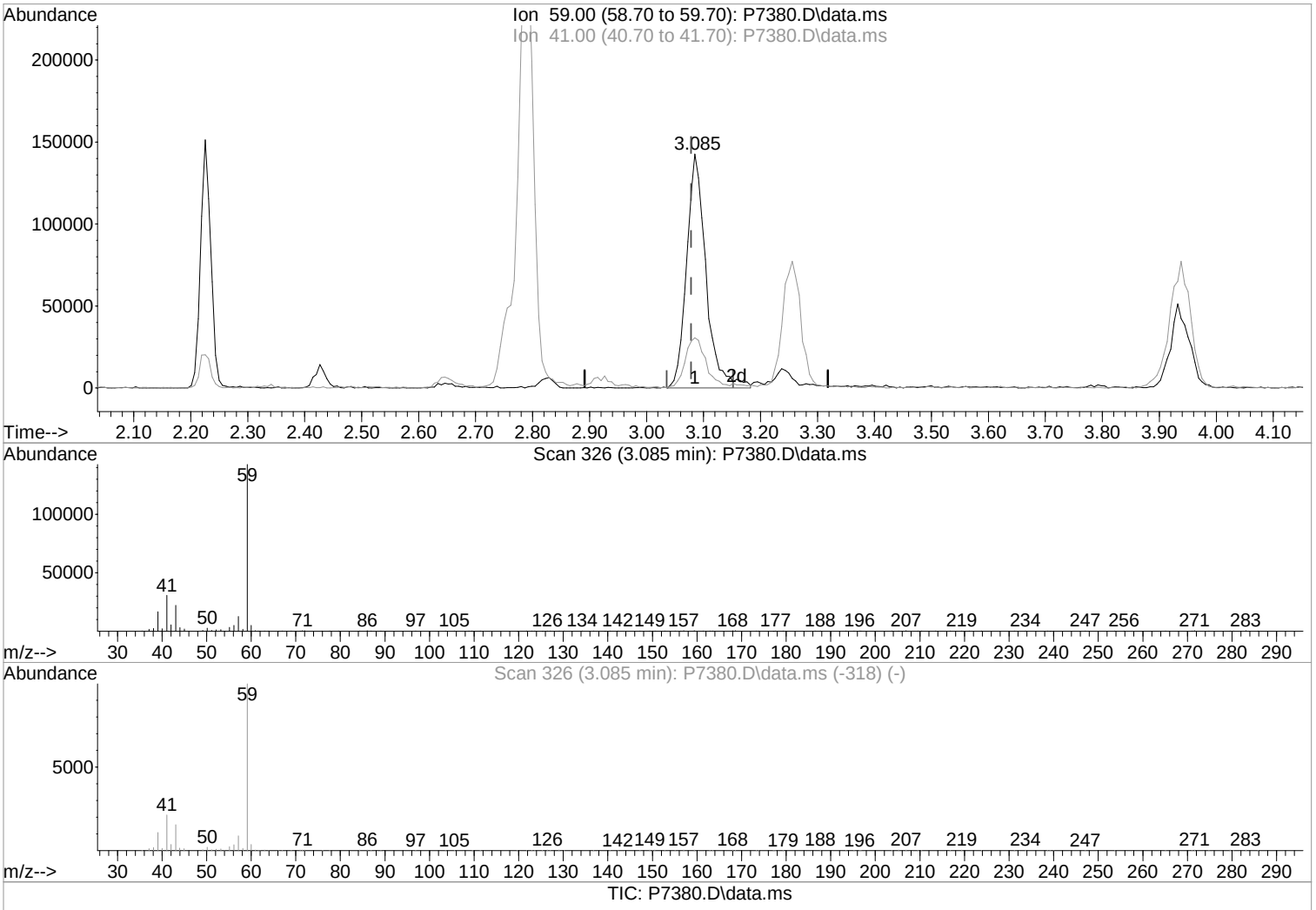
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7380.D\data.ms

(23) TBA

3.085min (+0.006) 1064.04 ppb m

response 337434

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	21.52
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

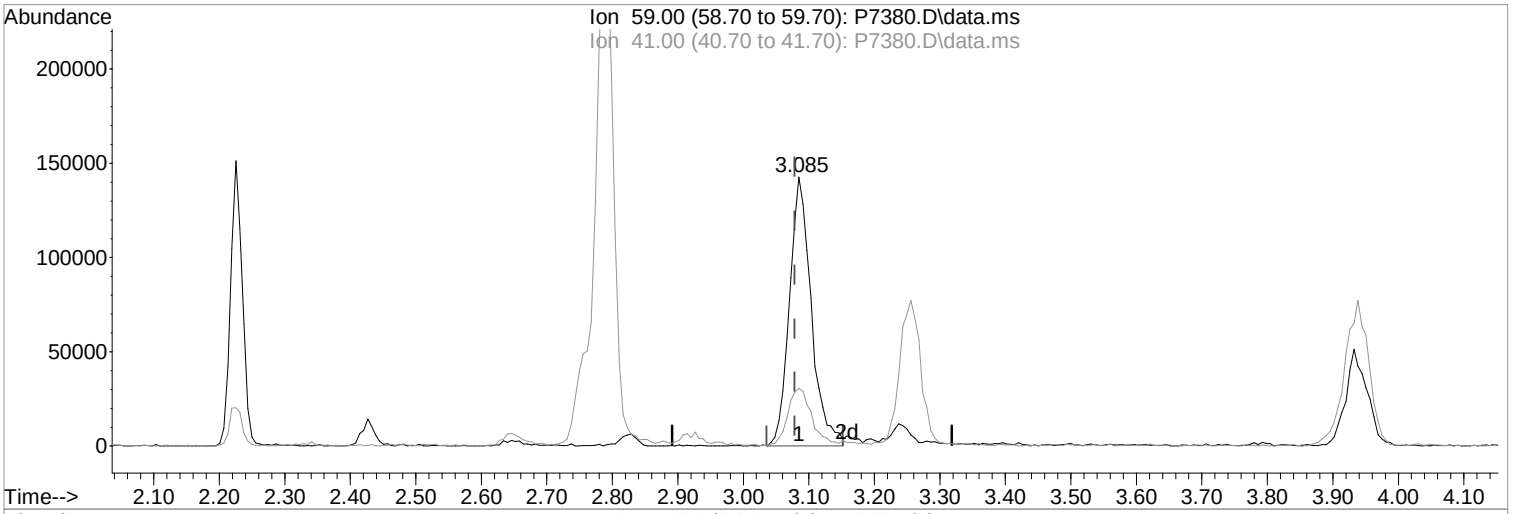
Poor integration.

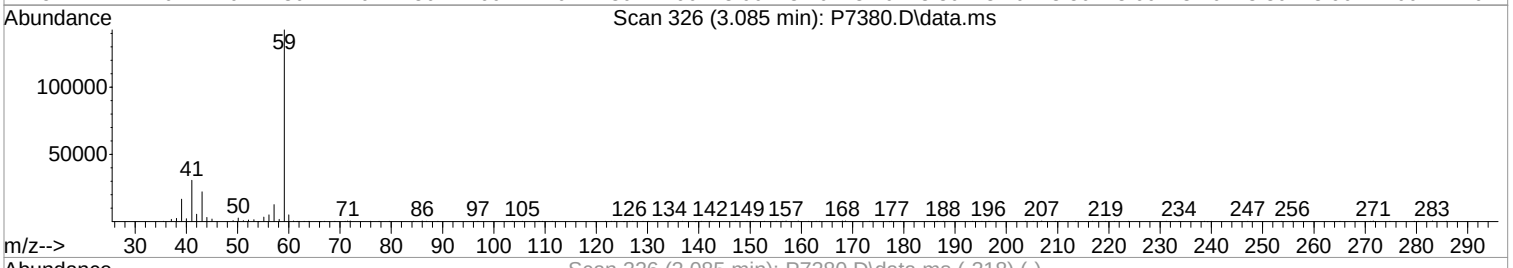
01/05/17

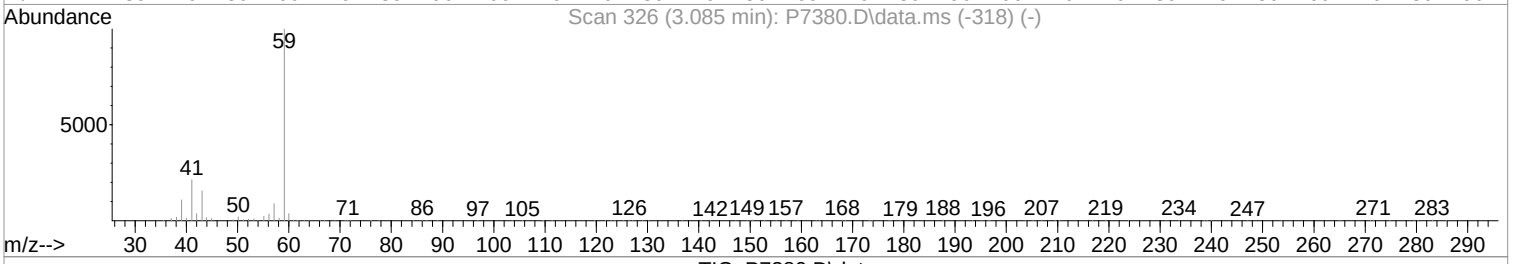
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7380.D\data.ms

(23) TBA

3.085min (+0.006) 1038.94 ppb

response 329475

Ion	Exp%	Act%
59.00	100	100
41.00	21.50	21.52
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

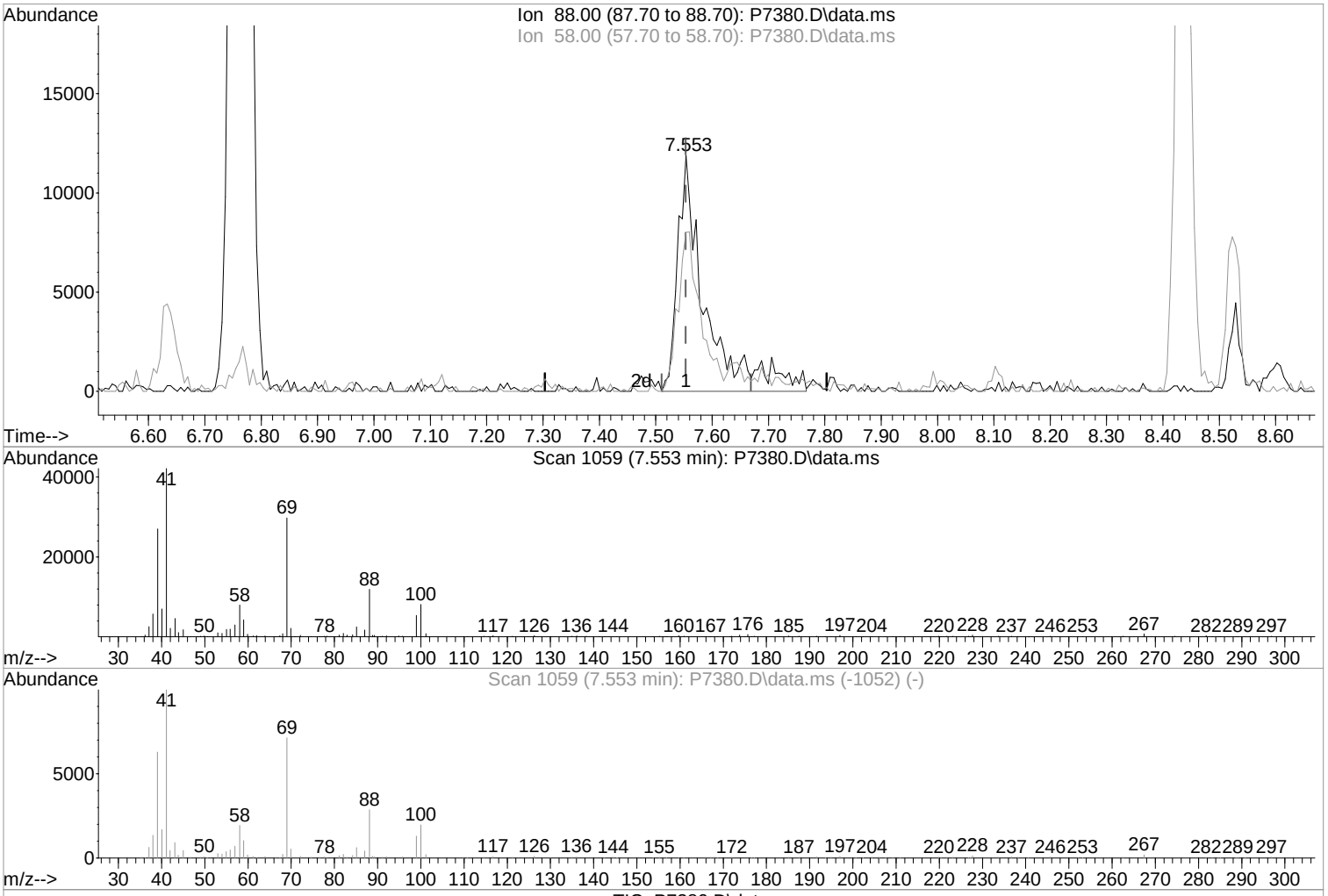
Before

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7380.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.000) 900.44 ppb m

response 41219

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	67.46
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

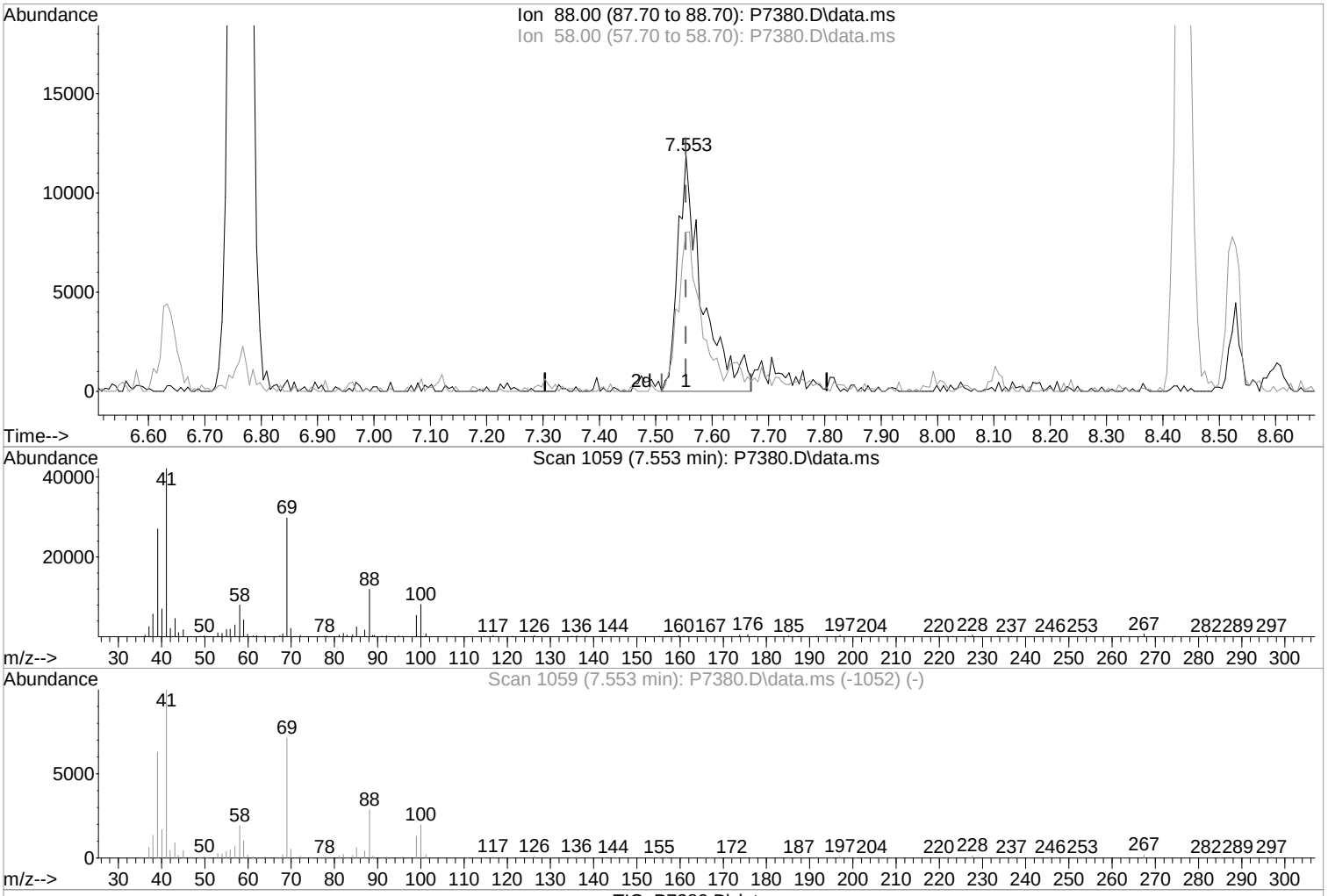
Poor integration.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 08:58:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7380.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.000) 792.18 ppb

response 36263

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	67.46
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 10:16:24 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	787959	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.761	114	1264029	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1250676	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	725383	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.590	113	372112	54.56	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.12%			
48) surr1,1,2-dichloroetha...	6.090	65	411828	54.38	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.76%			
65) SURR3,Toluene-d8	8.523	98	1600725	56.76	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.52%			
70) SURR2,BFB	11.047	95	627165	57.39	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 114.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	502186	52.38	ppb	100
3) Chloromethane	1.347	50	414362	48.23	ppb	100
4) Vinyl Chloride	1.427	62	407962	53.61	ppb	100
5) Bromomethane	1.683	94	211234	54.93	ppb	100
6) Chloroethane	1.762	64	208578	51.74	ppb	100
7) Freon 21	1.920	67	453307	47.81	ppb	100
8) Trichlorofluoromethane	1.969	101	436183	51.18	ppb	100
9) Diethyl Ether	2.225	59	189767	52.41	ppb	100
10) Freon 123a	2.231	67	271031	45.30	ppb	100
11) Freon 123	2.292	83	328221	47.63	ppb	100
12) Acrolein	2.335	56	146673	245.96	ppb	100
13) 1,1-Diclethene	2.426	96	272436	48.81	ppb	100
14) Freon 113	2.439	101	307067	50.92	ppb	100
15) Acetone	2.481	43	54484	46.99	ppb	100
16) 2-Propanol	2.646	45	196255m	1068.44	ppb	
17) Iodomethane	2.567	142	436350	53.27	ppb	100
18) Carbon Disulfide	2.628	76	889605	52.28	ppb	100
19) Acetonitrile	2.750	40	43294m	238.27	ppb	
20) Allyl Chloride	2.792	76	165167	49.79	ppb	100
21) Methyl Acetate	2.823	43	142705	51.73	ppb	100
22) Methylene Chloride	2.920	84	294327	48.11	ppb	100
23) TBA	3.085	59	337434m	1064.04	ppb	
24) Acrylonitrile	3.201	53	351570	255.94	ppb	100
25) Methyl-t-Butyl Ether	3.256	73	734520	49.97	ppb	100
26) trans-1,2-Dichloroethene	3.243	96	308042	47.61	ppb	100
28) 1,1-Diclethane	3.786	63	537223	49.59	ppb	100
29) Vinyl Acetate	3.896	86	53026	50.27	ppb	100
30) DIPE	3.938	45	1016265	50.49	ppb	100
31) 2-Chloro-1,3-Butadiene	3.920	53	473307	51.33	ppb	100
32) ETBE	4.511	59	880746	51.63	ppb	100
33) 2,2-Dichloropropane	4.694	77	435500	51.01	ppb	100
34) cis-1,2-Dichloroethene	4.713	96	330874	48.64	ppb	100
35) 2-Butanone	4.767	43	82074	48.85	ppb	100
36) Propionitrile	4.859	54	113545	217.35	ppb	100
37) Bromochloromethane	5.133	130	193531	51.78	ppb	100
38) Methacrylonitrile	5.152	67	79305	47.21	ppb	100
39) Tetrahydrofuran	5.231	42	53138	48.73	ppb	100
40) Chloroform	5.316	83	523819	49.72	ppb	100
41) 1,1,1-Trichloroethane	5.584	97	446037	48.28	ppb	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 10:16:24 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	790903	52.48	ppb	100
44) Cyclohexane	5.664	41	293044	43.96	ppb	100
46) Carbontetrachloride	5.847	121	107613	45.89	ppb	100
47) 1,1-Dichloropropene	5.865	75	428922	50.93	ppb	100
49) Benzene	6.164	78	1135736	50.78	ppb	100
50) 1,2-Dichloroethane	6.200	62	388122	49.29	ppb	100
51) Iso-Butyl Alcohol	6.200	43	144844	1063.53	ppb	100
52) n-Heptane	6.633	43	384936	51.10	ppb	100
53) 1-Butanol	7.115	56	208788	2647.35	ppb	100
54) Trichloroethene	7.078	130	333418	51.12	ppb	100
55) Methylcyclohexane	7.304	55	367230	47.60	ppb	100
56) 1,2-Diclpropane	7.346	63	312069	49.26	ppb	100
57) Dibromomethane	7.486	93	161362	50.40	ppb	100
58) 1,4-Dioxane	7.553	88	41219m	900.44	ppb	
59) Methyl Methacrylate	7.572	69	146944	48.40	ppb	100
60) Bromodichloromethane	7.706	83	377296	48.46	ppb	100
61) 2-Nitropropane	7.980	41	47861	78.85	ppb	100
62) 2-Chloroethylvinyl Ether	8.102	63	154273	50.72	ppb	100
63) cis-1,3-Dichloropropene	8.236	75	486946	53.34	ppb	100
64) 4-Methyl-2-pentanone	8.437	43	204627	51.34	ppb	100
66) Toluene	8.596	91	1369785	52.31	ppb	100
67) trans-1,3-Dichloropropene	8.858	75	411495	54.93	ppb	100
68) Ethyl Methacrylate	8.992	69	308365	53.29	ppb	100
69) 1,1,2-Trichloroethane	9.041	97	228779	51.50	ppb	100
72) Tetrachloroethene	9.175	164	271813	50.11	ppb	100
73) 2-Hexanone	9.328	43	143245	50.87	ppb	100
74) 1,3-Dichloropropane	9.206	76	420000	49.62	ppb	100
75) Dibromochloromethane	9.431	129	243947	50.45	ppb	100
76) N-Butyl Acetate	9.474	43	334490	48.67	ppb	100
77) 1,2-Dibromoethane	9.523	107	226072	51.26	ppb	100
78) Chlorobenzene	10.010	112	874540	49.76	ppb	100
79) 3-CBTF	10.029	180	489567	49.24	ppb	100
80) 4-CBTF	10.084	180	454078	49.76	ppb	100
81) 1,1,1,2-Tetrachloroethane	10.096	131	303961	52.07	ppb	100
82) Ethylbenzene	10.132	106	483444	49.49	ppb	100
83) (m+p)Xylene	10.242	106	1191324	103.45	ppb	100
84) o-Xylene	10.589	106	584158	50.90	ppb	100
85) Styrene	10.608	104	1024941	53.43	ppb	100
87) Bromoform	10.754	173	134474	52.15	ppb	100
88) 2-CBTF	10.833	180	483325	48.45	ppb	100
89) Isopropylbenzene	10.925	105	1495435	50.44	ppb	100
90) Cyclohexanone	10.986	55	528469	1013.24	ppb	100
91) trans-1,4-Dichloro-2-B...	11.224	53	72817	46.42	ppb	100
92) 1,1,2,2-Tetrachloroethane	11.175	83	271596	47.87	ppb	100
93) Bromobenzene	11.169	156	396153	49.21	ppb	100
94) 1,2,3-Trichloropropane	11.205	110	82614	45.48	ppb	100
95) n-Propylbenzene	11.272	91	1811645	52.64	ppb	100
96) 2-Chlorotoluene	11.339	91	1045168	50.73	ppb	100
97) 3-Chlorotoluene	11.394	91	1174796	51.80	ppb	100
98) 4-Chlorotoluene	11.431	91	1231828	51.28	ppb	100
99) 1,3,5-Trimethylbenzene	11.425	105	1317407	51.26	ppb	100
100) tert-Butylbenzene	11.699	119	1121327	53.30	ppb	100
101) 1,2,4-Trimethylbenzene	11.736	105	1359138	51.53	ppb	100
102) 3,4-DCBTF	11.797	214	387651	50.14	ppb	100
103) sec-Butylbenzene	11.876	105	1628314	52.67	ppb	100
104) p-Isopropyltoluene	11.998	119	1366519	52.81	ppb	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 10:16:24 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

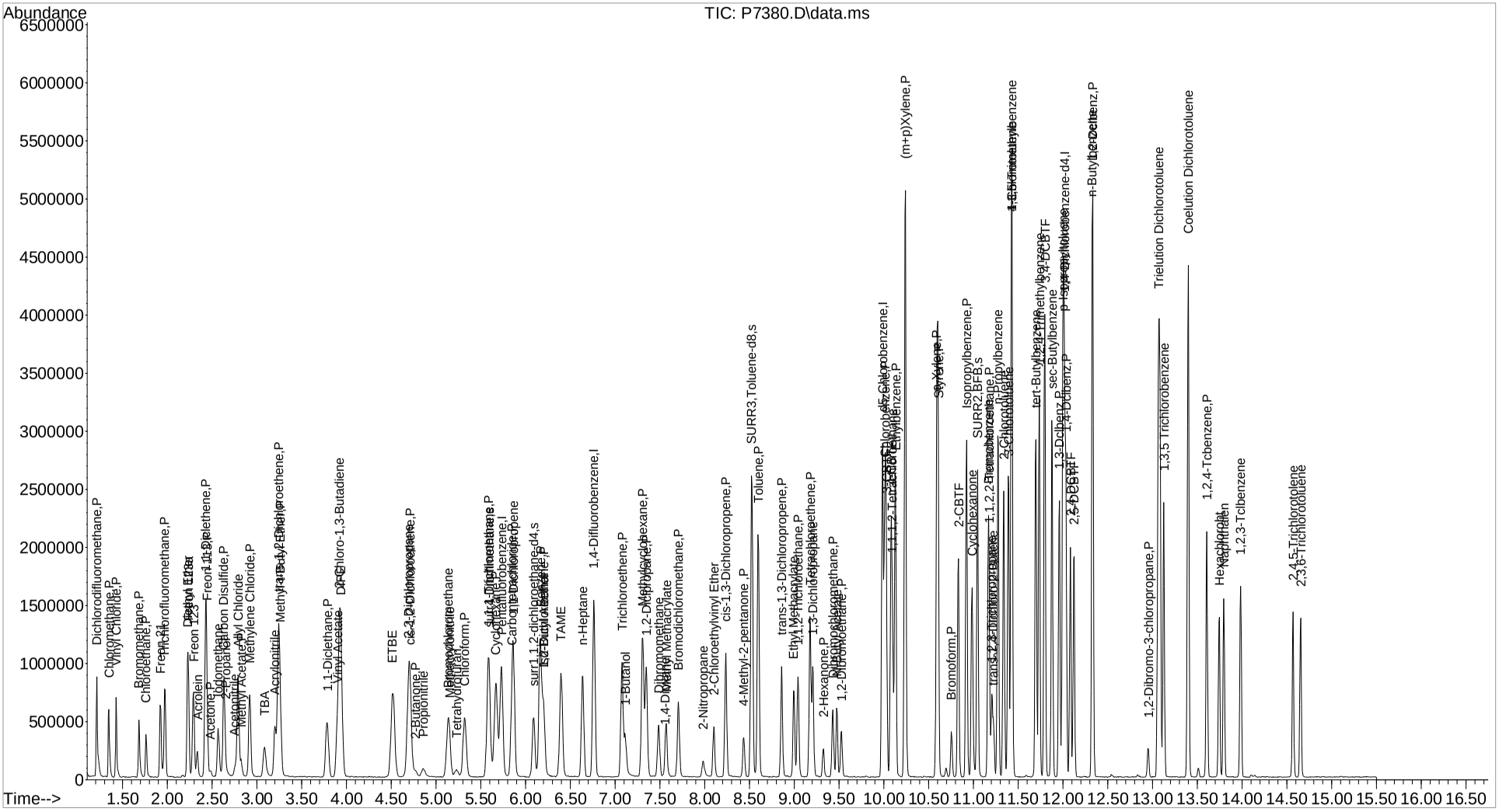
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	778879	50.63	ppb	100
106) 1,4-Dclbenz	12.034	146	775906	48.32	ppb	100
107) 2,4-DCBTF	12.083	214	339939	47.74	ppb	100
108) 2,5-DCBTF	12.126	214	382146	50.58	ppb	100
109) n-Butylbenzene	12.327	91	1268171	53.73	ppb	100
110) 1,2-Dclbenz	12.333	146	713726	49.61	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.955	157	50286	45.35	ppb	100
112) Trielution Dichlorotol...	13.071	125	1932869	156.15	ppb	100
113) 1,3,5 Trichlorobenzene	13.126	180	540345	49.24	ppb	100
114) Coelution Dichlorotoluene	13.400	125	1388916	103.85	ppb	100
115) 1,2,4-Tcbenzene	13.607	180	477666	50.03	ppb	100
116) Hexachlorobt	13.747	225	195428	44.95	ppb	100
117) Naphthalen	13.796	128	898073	50.96	ppb	100
118) 1,2,3-Tclbenzene	13.985	180	394739	50.21	ppb	100
119) 2,4,5-Trichlorotolene	14.570	159	287822	47.13	ppb	100
120) 2,3,6-Trichlorotoluene	14.656	159	262860	51.68	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7380.D
Acq On : 4 Jan 2017 3:53 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

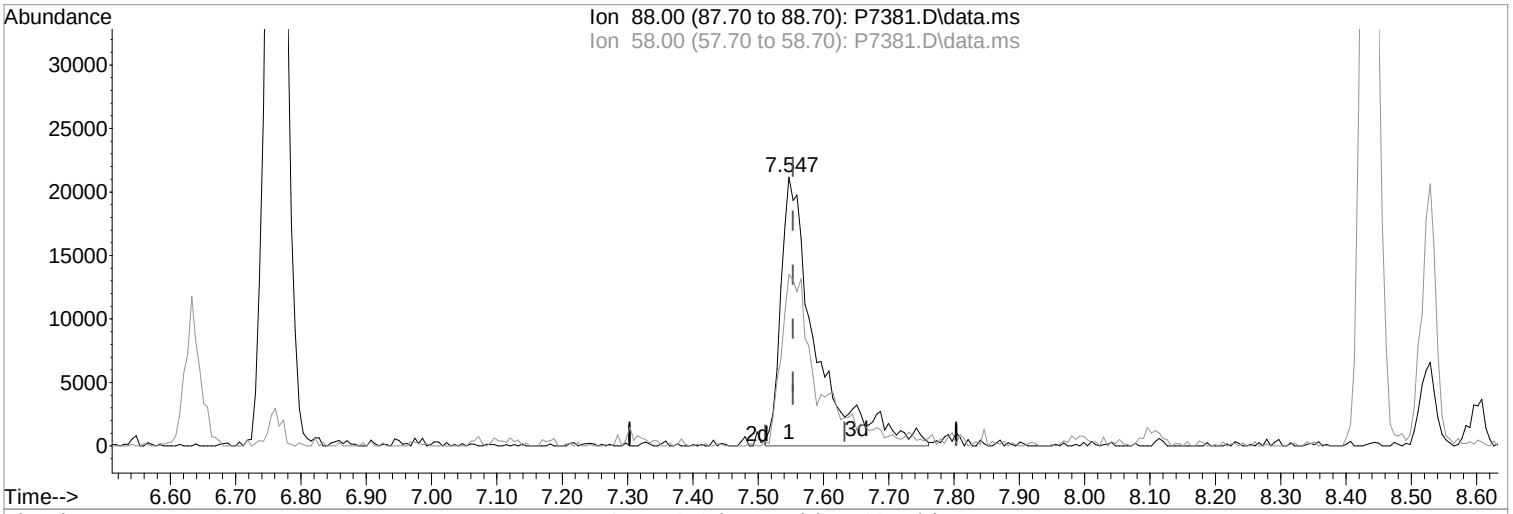
Quant Time: Jan 05 10:16:24 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

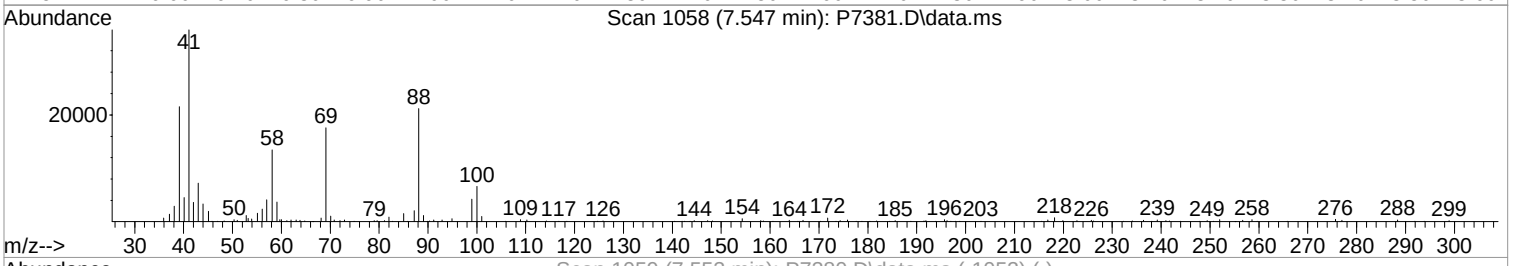


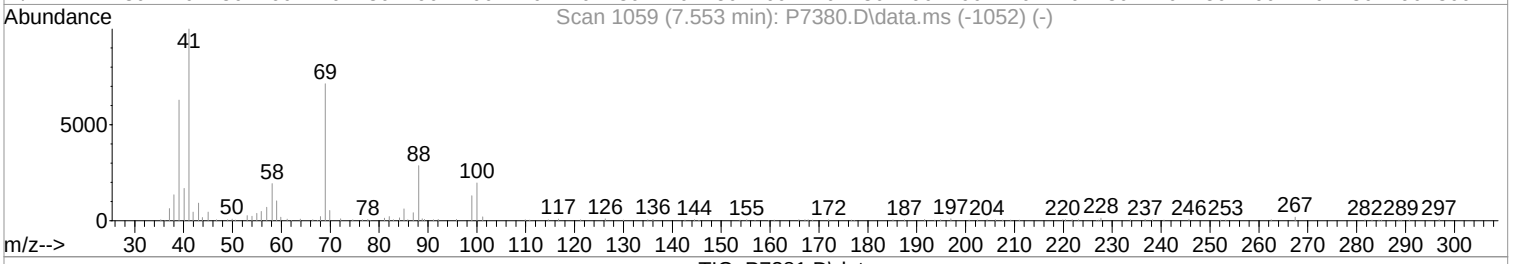
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7381.D
Acq On : 4 Jan 2017 4:22 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 08:58:17 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7381.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 1683.87 ppb m

response 79124

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	63.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

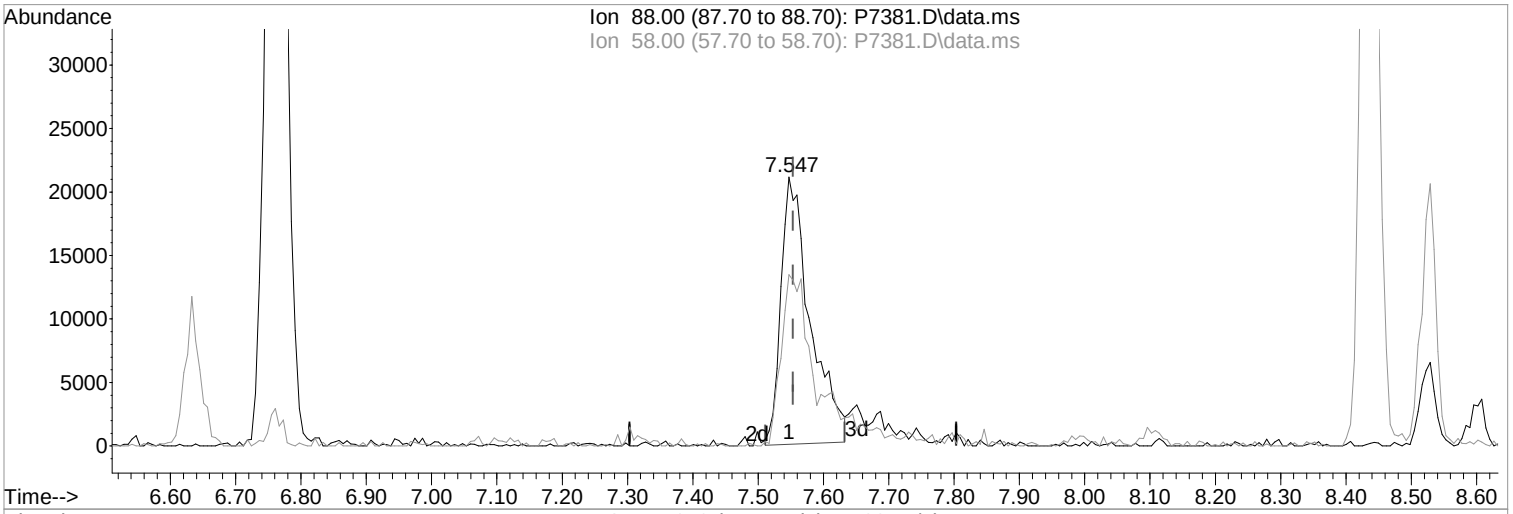
Poor integration.

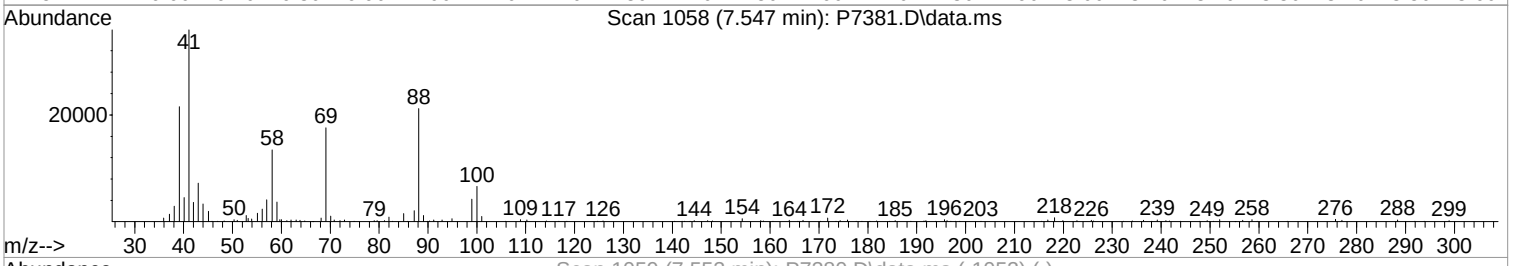
01/05/17

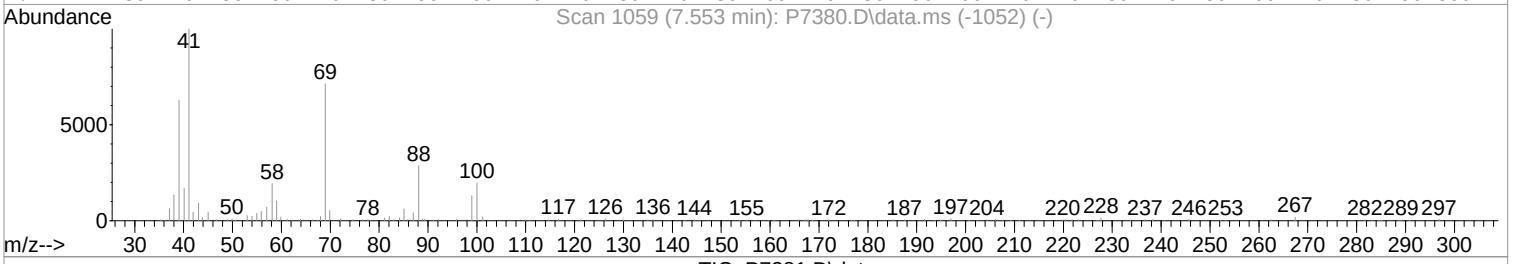
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7381.D
Acq On : 4 Jan 2017 4:22 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 08:58:17 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7381.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 1394.27 ppb

response 65516

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	63.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7381.D
Acq On : 4 Jan 2017 4:22 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 10:18:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	811029	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1297523	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1298423	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	748811	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	822869	117.53	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 235.06%#				
48) surr1,1,2-dichloroetha...	6.090	65	910687	117.15	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 234.30%#				
65) SURR3,Toluene-d8	8.529	98	3342051	115.45	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 230.90%#				
70) SURR2,BFB	11.047	95	1323989	118.02	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 236.04%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	992744	100.60	ppb		99
3) Chloromethane	1.347	50	897388	101.48	ppb		93
4) Vinyl Chloride	1.427	62	817560	104.38	ppb		100
5) Bromomethane	1.683	94	458851	115.92	ppb		96
6) Chloroethane	1.762	64	410904	99.03	ppb		93
7) Freon 21	1.920	67	1026123	105.16	ppb		100
8) Trichlorofluoromethane	1.975	101	905602	103.24	ppb		99
9) Diethyl Ether	2.225	59	373856	100.31	ppb		92
10) Freon 123a	2.231	67	607312	98.62	ppb		99
11) Freon 123	2.292	83	742720	104.70	ppb		99
12) Acrolein	2.335	56	295539	481.50	ppb		95
13) 1,1-Diclethene	2.426	96	573364	99.80	ppb		94
14) Freon 113	2.438	101	612359	98.66	ppb		94
15) Acetone	2.481	43	112636	94.37	ppb		88
16) 2-Propanol	2.640	45	392249	2074.72	ppb		99
17) Iodomethane	2.567	142	817273	96.93	ppb		94
18) Carbon Disulfide	2.627	76	1744831	99.62	ppb		99
19) Acetonitrile	2.749	40	81533	435.95	ppb	#	77
20) Allyl Chloride	2.786	76	349296	102.29	ppb		98
21) Methyl Acetate	2.823	43	287369	101.21	ppb		96
22) Methylene Chloride	2.920	84	592807	94.15	ppb		94
23) TBA	3.085	59	672799	2061.21	ppb		99
24) Acrylonitrile	3.201	53	700958	495.78	ppb		99
25) Methyl-t-Butyl Ether	3.255	73	1457998	96.37	ppb		98
26) trans-1,2-Dichloroethene	3.237	96	628457	94.37	ppb		94
28) 1,1-Diclethane	3.786	63	1087826	97.56	ppb		99
29) Vinyl Acetate	3.902	86	106792	98.35	ppb		97
30) DIPE	3.938	45	2117431	102.21	ppb		94
31) 2-Chloro-1,3-Butadiene	3.920	53	937584	98.80	ppb		93
32) ETBE	4.517	59	1810571	103.11	ppb		97
33) 2,2-Dichloropropane	4.694	77	951976	108.34	ppb		97
34) cis-1,2-Dichloroethene	4.706	96	679240	97.01	ppb		90
35) 2-Butanone	4.773	43	169636	98.08	ppb		99
36) Propionitrile	4.859	54	246584	458.58	ppb		97
37) Bromochloromethane	5.139	130	374895	97.46	ppb		89
38) Methacrylonitrile	5.151	67	162181	93.79	ppb		86
39) Tetrahydrofuran	5.231	42	111364	99.22	ppb		90
40) Chloroform	5.316	83	1047724	96.61	ppb		99
41) 1,1,1-Trichloroethane	5.590	97	927502	97.54	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7381.D
Acq On : 4 Jan 2017 4:22 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 10:18:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.401	73	1601825	103.27	ppb		98
44) Cyclohexane	5.663	41	683398	99.88	ppb		93
46) Carbontetrachloride	5.852	121	238194	98.96	ppb		96
47) 1,1-Dichloropropene	5.865	75	880354	101.84	ppb		97
49) Benzene	6.163	78	2299704	100.17	ppb		100
50) 1,2-Dichloroethane	6.200	62	759314	93.94	ppb		98
51) Iso-Butyl Alcohol	6.200	43	302626	2164.70	ppb		82
52) n-Heptane	6.639	43	773661	100.05	ppb		94
53) 1-Butanol	7.108	56	450551	5565.34	ppb		100
54) Trichloroethene	7.078	130	677494	101.20	ppb		96
55) Methylcyclohexane	7.309	55	860518	108.66	ppb		94
56) 1,2-Diclpropane	7.346	63	636069	97.80	ppb		99
57) Dibromomethane	7.486	93	321156	97.71	ppb		94
58) 1,4-Dioxane	7.547	88	79124m	1683.87	ppb		
59) Methyl Methacrylate	7.572	69	305679	98.09	ppb		97
60) Bromodichloromethane	7.706	83	802650	100.44	ppb		95
61) 2-Nitropropane	7.980	41	112112	179.93	ppb		99
62) 2-Chloroethylvinyl Ether	8.102	63	311382	99.72	ppb		96
63) cis-1,3-Dichloropropene	8.236	75	1031645	110.09	ppb		98
64) 4-Methyl-2-pentanone	8.437	43	402367	98.34	ppb		96
66) Toluene	8.596	91	2717947	101.12	ppb		96
67) trans-1,3-Dichloropropene	8.858	75	858067	111.58	ppb		98
68) Ethyl Methacrylate	8.998	69	639173	107.61	ppb		97
69) 1,1,2-Trichloroethane	9.041	97	469764	103.02	ppb		95
72) Tetrachloroethene	9.175	164	563648	100.08	ppb		98
73) 2-Hexanone	9.321	43	287624	98.38	ppb		97
74) 1,3-Dichloropropane	9.205	76	844122	96.07	ppb		99
75) Dibromochloromethane	9.431	129	536048	106.79	ppb		98
76) N-Butyl Acetate	9.474	43	735316	103.06	ppb		95
77) 1,2-Dibromoethane	9.529	107	450830	98.47	ppb		93
78) Chlorobenzene	10.010	112	1814523	99.46	ppb		98
79) 3-CBTF	10.028	180	1070040	103.67	ppb		99
80) 4-CBTF	10.083	180	957259	101.05	ppb		99
81) 1,1,1,2-Tetrachloroethane	10.096	131	646420	106.67	ppb		95
82) Ethylbenzene	10.132	106	1018108	100.39	ppb	#	89
83) (m+p)Xylene	10.242	106	2454021	205.25	ppb	#	88
84) o-Xylene	10.595	106	1210021	101.56	ppb		96
85) Styrene	10.608	104	2086748	104.77	ppb		100
87) Bromoform	10.754	173	309976	116.45	ppb		98
88) 2-CBTF	10.833	180	1040802	101.06	ppb		98
89) Isopropylbenzene	10.925	105	3007933	98.29	ppb		98
90) Cyclohexanone	10.986	55	1014893	1884.99	ppb		96
91) trans-1,4-Dichloro-2-B...	11.229	53	159244	98.33	ppb		84
92) 1,1,2,2-Tetrachloroethane	11.181	83	552887	94.41	ppb		97
93) Bromobenzene	11.169	156	814055	97.96	ppb		96
94) 1,2,3-Trichloropropane	11.205	110	174137	92.87	ppb		95
95) n-Propylbenzene	11.278	91	3528419	99.32	ppb		93
96) 2-Chlorotoluene	11.339	91	2093625	98.44	ppb		99
97) 3-Chlorotoluene	11.394	91	2367494	101.11	ppb		94
98) 4-Chlorotoluene	11.431	91	2440602	98.42	ppb		97
99) 1,3,5-Trimethylbenzene	11.425	105	2633044	99.24	ppb		99
100) tert-Butylbenzene	11.699	119	2279685	104.97	ppb		97
101) 1,2,4-Trimethylbenzene	11.735	105	2720050	99.90	ppb		98
102) 3,4-DCBTF	11.796	214	831903	104.24	ppb		99
103) sec-Butylbenzene	11.882	105	3210237	100.59	ppb		95
104) p-Isopropyltoluene	11.998	119	2683004	100.44	ppb		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7381.D
Acq On : 4 Jan 2017 4:22 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 10:18:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

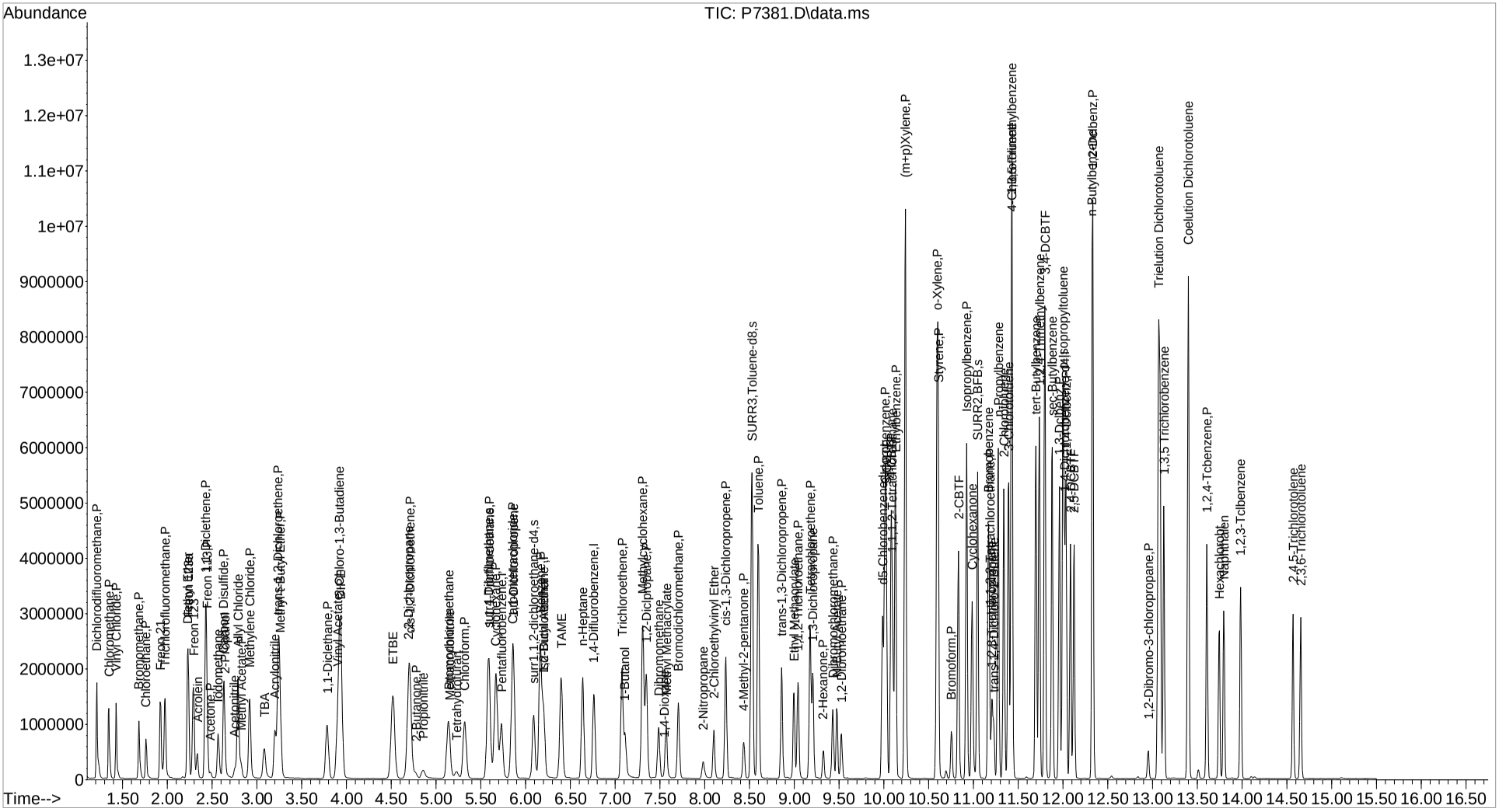
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	1565168	98.56	ppb	97
106) 1,4-Dclbenz	12.034	146	1587626	95.78	ppb	99
107) 2,4-DCBTF	12.083	214	769609	104.69	ppb	97
108) 2,5-DCBTF	12.126	214	806248	103.38	ppb	97
109) n-Butylbenzene	12.327	91	2481868	101.87	ppb	98
110) 1,2-Dclbenz	12.333	146	1465031	98.65	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.955	157	103233	90.18	ppb	95
112) Trielution Dichlorotol...	13.071	125	3989045	312.18	ppb	100
113) 1,3,5 Trichlorobenzene	13.125	180	1136052	100.29	ppb	95
114) Coelution Dichlorotoluene	13.400	125	2784194	201.67	ppb	98
115) 1,2,4-Tcbenzene	13.607	180	961099	97.51	ppb	94
116) Hexachlorobt	13.747	225	380657	84.81	ppb	97
117) Naphthalen	13.796	128	1799216	98.89	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	784031	96.61	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	594568	94.32	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	531895	101.29	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7381.D
Acq On : 4 Jan 2017 4:22 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

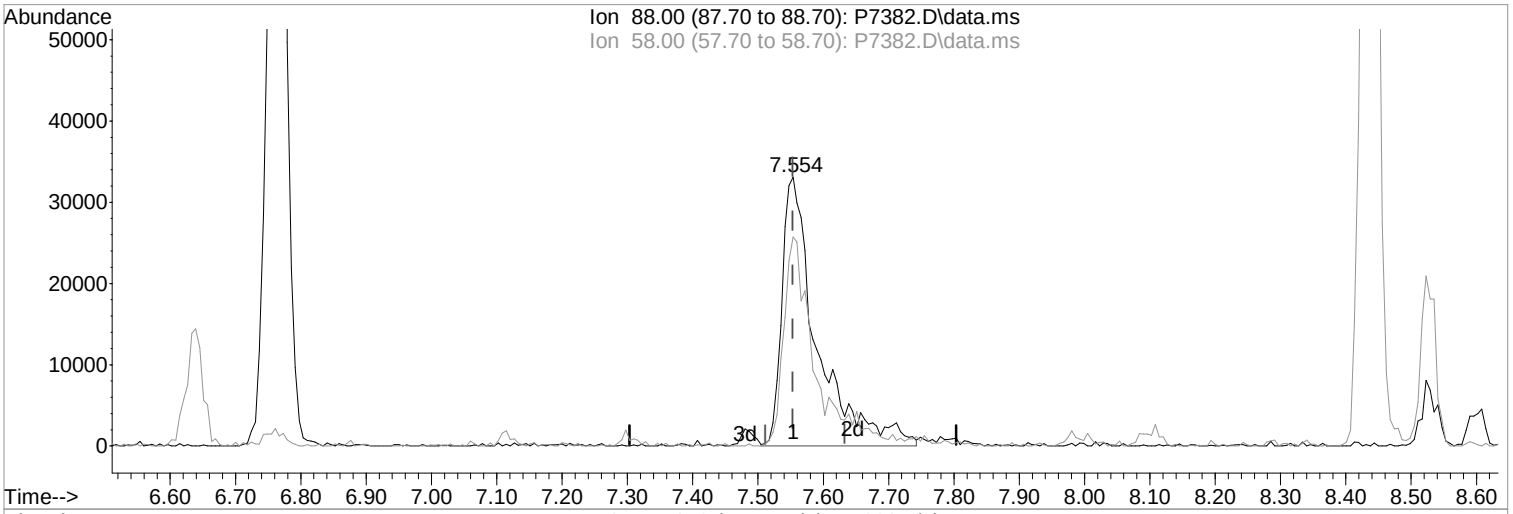
Quant Time: Jan 05 10:18:33 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

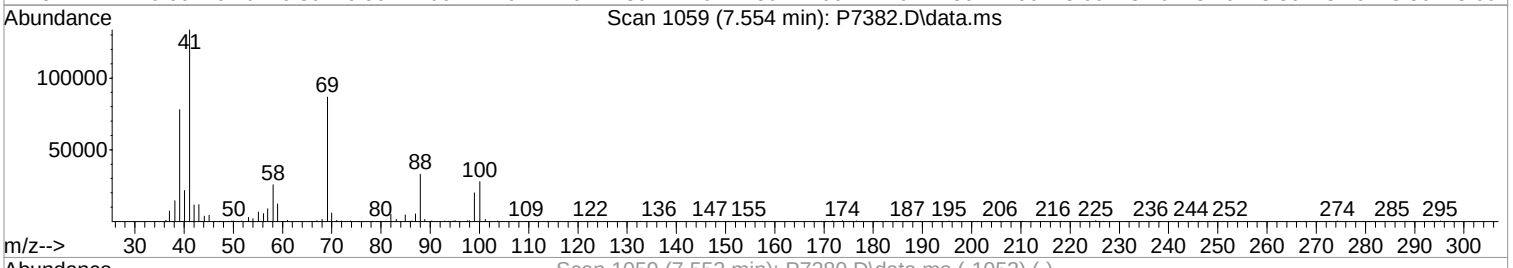


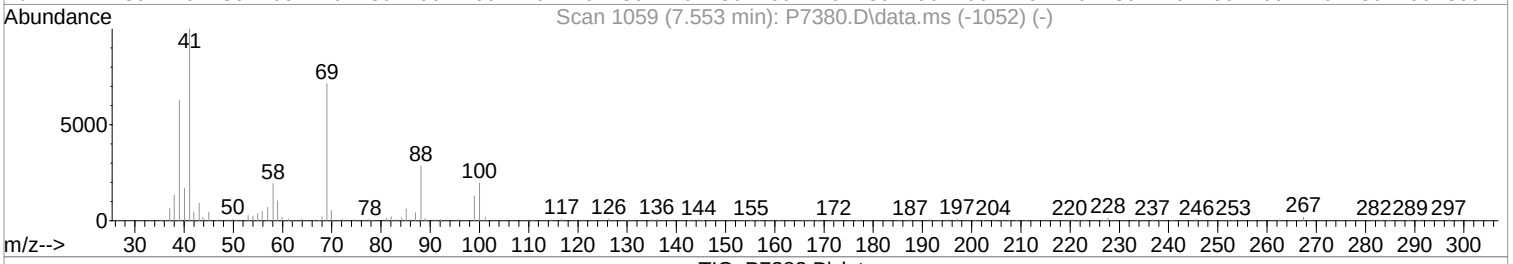
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7382.D
Acq On : 4 Jan 2017 4:52 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 08:58:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7382.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.000) 2578.72 ppb m

response 123670

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	77.72
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

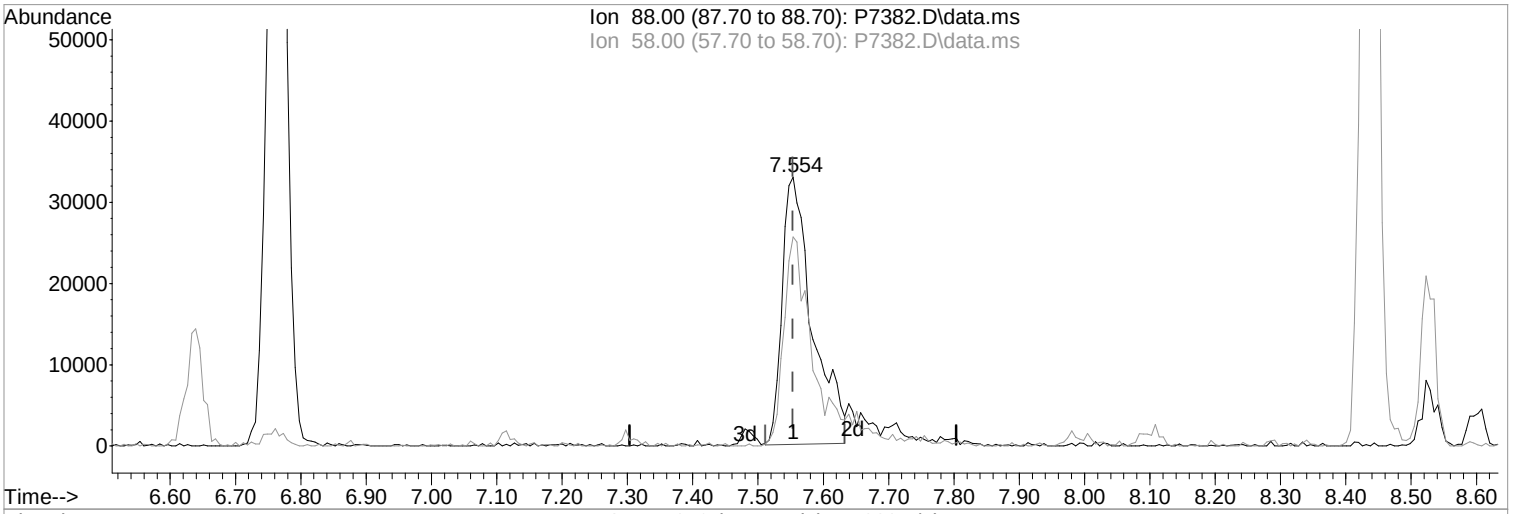
Poor integration.

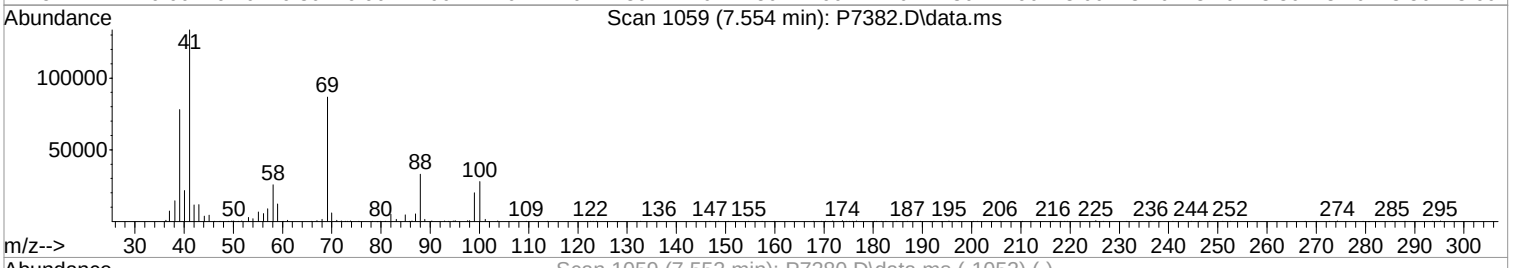
01/05/17

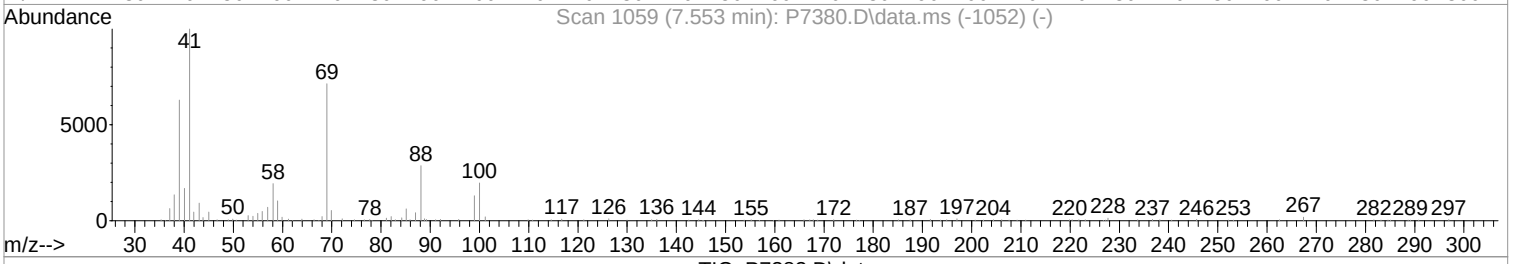
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7382.D
Acq On : 4 Jan 2017 4:52 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 08:58:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration







TIC: P7382.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.000) 2203.62 ppb

response 105681

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	77.72
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7382.D
Acq On : 4 Jan 2017 4:52 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 10:24:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	829586	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1324268	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1324590	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	752647	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	985056	137.85	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 275.70%#				
48) surr1,1,2-dichloroetha...	6.090	65	1061104	133.74	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 267.48%#				
65) SURR3,Toluene-d8	8.529	98	3912168	132.42	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 264.84%#				
70) SURR2,BFB	11.047	95	1562358	136.46	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 272.92%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	1527294	151.30	ppb		99
3) Chloromethane	1.341	50	1352991	149.58	ppb		99
4) Vinyl Chloride	1.427	62	1254616	156.59	ppb		98
5) Bromomethane	1.683	94	694203	171.46	ppb		96
6) Chloroethane	1.762	64	642993	151.50	ppb		97
7) Freon 21	1.920	67	1540317	154.32	ppb		99
8) Trichlorofluoromethane	1.975	101	1367618	152.42	ppb		99
9) Diethyl Ether	2.225	59	585723	153.64	ppb		96
10) Freon 123a	2.231	67	912882	144.92	ppb		98
11) Freon 123	2.292	83	1116454	153.87	ppb		99
12) Acrolein	2.335	56	468163	745.68	ppb		96
13) 1,1-Diclethene	2.426	96	888080	151.12	ppb		96
14) Freon 113	2.433	101	957794	150.86	ppb		97
15) Acetone	2.481	43	176640	144.68	ppb		91
16) 2-Propanol	2.646	45	676497	3498.16	ppb		96
17) Iodomethane	2.567	142	1197801	138.89	ppb		98
18) Carbon Disulfide	2.628	76	2721762	151.92	ppb		100
19) Acetonitrile	2.756	40	125305	655.01	ppb	#	60
20) Allyl Chloride	2.792	76	491761	140.79	ppb		99
21) Methyl Acetate	2.823	43	446490	153.73	ppb		95
22) Methylene Chloride	2.920	84	933852	145.00	ppb		93
23) TBA	3.085	59	1122116	3360.86	ppb		99
24) Acrylonitrile	3.201	53	1088329	752.54	ppb		98
25) Methyl-t-Butyl Ether	3.256	73	2233219	144.31	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	964887	141.65	ppb		93
28) 1,1-Diclethane	3.786	63	1669320	146.36	ppb		96
29) Vinyl Acetate	3.896	86	173766	156.46	ppb	#	87
30) DIPE	3.938	45	3173257	149.75	ppb		96
31) 2-Chloro-1,3-Butadiene	3.920	53	1470726	151.51	ppb		99
32) ETBE	4.518	59	2788899	155.27	ppb		97
33) 2,2-Dichloropropane	4.694	77	1460606	162.51	ppb		95
34) cis-1,2-Dichloroethene	4.707	96	1035952	144.64	ppb		96
35) 2-Butanone	4.767	43	268913	152.01	ppb		98
36) Propionitrile	4.859	54	384326	698.76	ppb		97
37) Bromochloromethane	5.139	130	578048	146.91	ppb		89
38) Methacrylonitrile	5.145	67	249188	140.89	ppb		97
39) Tetrahydrofuran	5.225	42	158393	137.96	ppb		95
40) Chloroform	5.322	83	1624889	146.48	ppb		97
41) 1,1,1-Trichloroethane	5.590	97	1430717	147.10	ppb		98

1st 01/05/17
2nd 01/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7382.D
Acq On : 4 Jan 2017 4:52 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 10:24:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	2403070	151.47	ppb		97
44) Cyclohexane	5.670	41	1052435	150.70	ppb		97
46) Carbontetrachloride	5.853	121	368747	150.11	ppb		96
47) 1,1-Dichloropropene	5.865	75	1323146	149.98	ppb		97
49) Benzene	6.164	78	3486103	148.78	ppb		99
50) 1,2-Dichloroethane	6.206	62	1179010	142.92	ppb		98
51) Iso-Butyl Alcohol	6.200	43	486163	3407.32	ppb		89
52) n-Heptane	6.639	43	1200744	152.15	ppb		94
53) 1-Butanol	7.115	56	754733	9134.41	ppb		99
54) Trichloroethene	7.078	130	1030502	150.82	ppb		99
55) Methylcyclohexane	7.310	55	1275198	157.78	ppb		98
56) 1,2-Diclpropane	7.346	63	965069	145.39	ppb		99
57) Dibromomethane	7.486	93	503830	150.19	ppb		100
58) 1,4-Dioxane	7.554	88	123670m	2578.72	ppb		
59) Methyl Methacrylate	7.572	69	483630	152.05	ppb		94
60) Bromodichloromethane	7.706	83	1231714	151.01	ppb		96
61) 2-Nitropropane	7.980	41	196021	308.25	ppb		87
62) 2-Chloroethylvinyl Ether	8.102	63	493621	154.90	ppb		98
63) cis-1,3-Dichloropropene	8.236	75	1605057	167.82	ppb		98
64) 4-Methyl-2-pentanone	8.438	43	640545	153.39	ppb		99
66) Toluene	8.596	91	4059309	147.97	ppb		95
67) trans-1,3-Dichloropropene	8.858	75	1327913	169.19	ppb		97
68) Ethyl Methacrylate	8.998	69	1018343	167.98	ppb		100
69) 1,1,2-Trichloroethane	9.041	97	722250	155.19	ppb		97
72) Tetrachloroethene	9.181	164	847783	147.56	ppb		95
73) 2-Hexanone	9.321	43	452731	151.80	ppb		97
74) 1,3-Dichloropropane	9.212	76	1286939	143.57	ppb		98
75) Dibromochloromethane	9.431	129	852787	166.54	ppb		96
76) N-Butyl Acetate	9.474	43	1131008	155.39	ppb		99
77) 1,2-Dibromoethane	9.529	107	703941	150.71	ppb		85
78) Chlorobenzene	10.010	112	2741007	147.27	ppb		98
79) 3-CBTF	10.029	180	1592890	151.28	ppb		98
80) 4-CBTF	10.084	180	1451329	150.17	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.096	131	1009208	163.25	ppb		96
82) Ethylbenzene	10.132	106	1529429	147.83	ppb	#	81
83) (m+p)Xylene	10.242	106	3653263	299.52	ppb	#	82
84) o-Xylene	10.596	106	1872752	154.08	ppb		90
85) Styrene	10.608	104	3142680	154.67	ppb		94
87) Bromoform	10.754	173	500123	186.93	ppb		100
88) 2-CBTF	10.833	180	1586041	153.22	ppb		96
89) Isopropylbenzene	10.925	105	4470849	145.34	ppb		95
90) Cyclohexanone	10.986	55	1621821	2996.90	ppb		93
91) trans-1,4-Dichloro-2-B...	11.230	53	240861	147.97	ppb		89
92) 1,1,2,2-Tetrachloroethane	11.181	83	863958	146.77	ppb		96
93) Bromobenzene	11.169	156	1277408	152.94	ppb		96
94) 1,2,3-Trichloropropane	11.205	110	262206	139.13	ppb		92
95) n-Propylbenzene	11.278	91	5085604	142.42	ppb		88
96) 2-Chlorotoluene	11.339	91	3136153	146.71	ppb		96
97) 3-Chlorotoluene	11.394	91	3420788	145.36	ppb		93
98) 4-Chlorotoluene	11.431	91	3666801	147.11	ppb		96
99) 1,3,5-Trimethylbenzene	11.431	105	3892307	145.96	ppb		93
100) tert-Butylbenzene	11.699	119	3422150	156.77	ppb		99
101) 1,2,4-Trimethylbenzene	11.736	105	4012518	146.62	ppb		94
102) 3,4-DCBTF	11.797	214	1250484	155.88	ppb		98
103) sec-Butylbenzene	11.882	105	4728011	147.39	ppb		92
104) p-Isopropyltoluene	11.998	119	3977087	148.12	ppb		94

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7382.D
Acq On : 4 Jan 2017 4:52 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 10:24:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

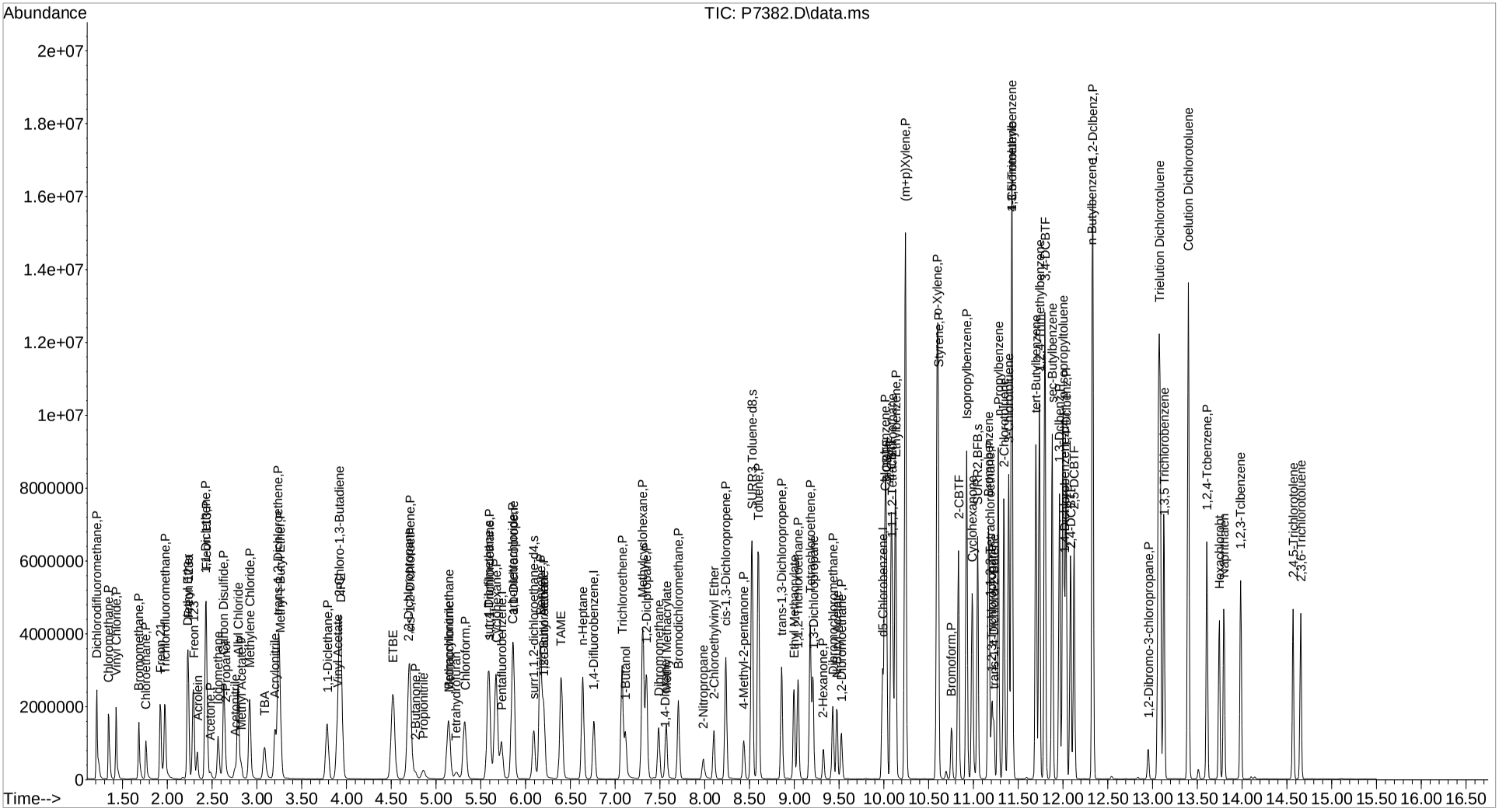
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	2390708	149.77	ppb	94
106) 1,4-Dclbenz	12.034	146	2386117	143.21	ppb	98
107) 2,4-DCBTF	12.089	214	1158103	156.73	ppb	94
108) 2,5-DCBTF	12.126	214	1230076	156.92	ppb	97
109) n-Butylbenzene	12.327	91	3658001	149.38	ppb	96
110) 1,2-Dclbenz	12.333	146	2262907	151.60	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.955	157	170713	148.36	ppb	96
112) Trielution Dichlorotol...	13.077	125	5880277	457.83	ppb	95
113) 1,3,5 Trichlorobenzene	13.132	180	1699437	149.26	ppb	97
114) Coelution Dichlorotoluene	13.400	125	4142324	298.51	ppb	94
115) 1,2,4-Tcbenzene	13.607	180	1471831	148.57	ppb	92
116) Hexachlorobt	13.747	225	598686	132.71	ppb	99
117) Naphthalen	13.796	128	2714318	148.43	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	1222234	149.84	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	915729	144.52	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	807549	153.01	ppb	91

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7382.D
Acq On : 4 Jan 2017 4:52 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

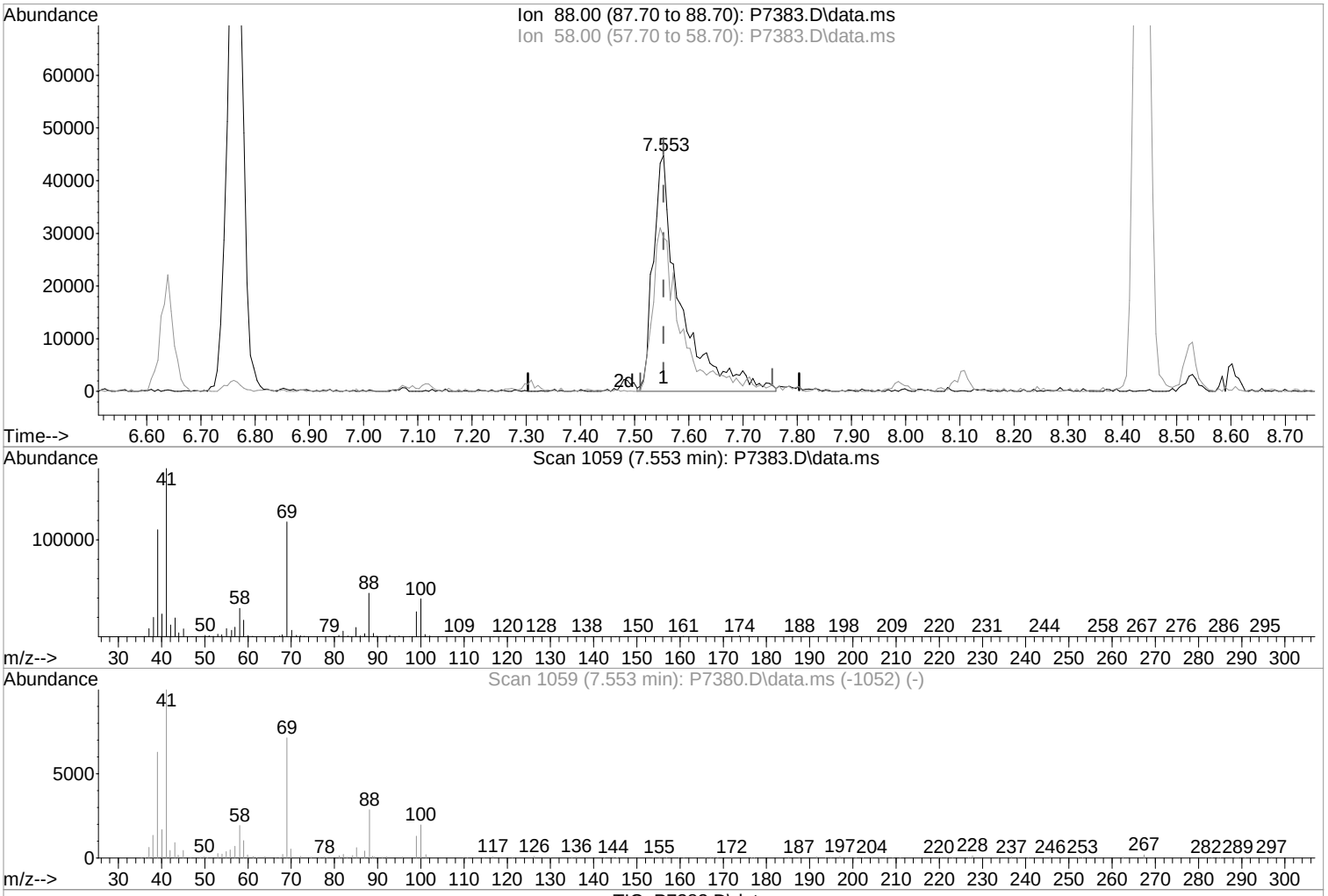
Quant Time: Jan 05 10:24:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7383.D
Acq On : 4 Jan 2017 5:22 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 08:58:24 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7383.D\data.ms

(58) 1,4-Dioxane

7.553min (0.000) 3183.46 ppb m

response 157151

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	65.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

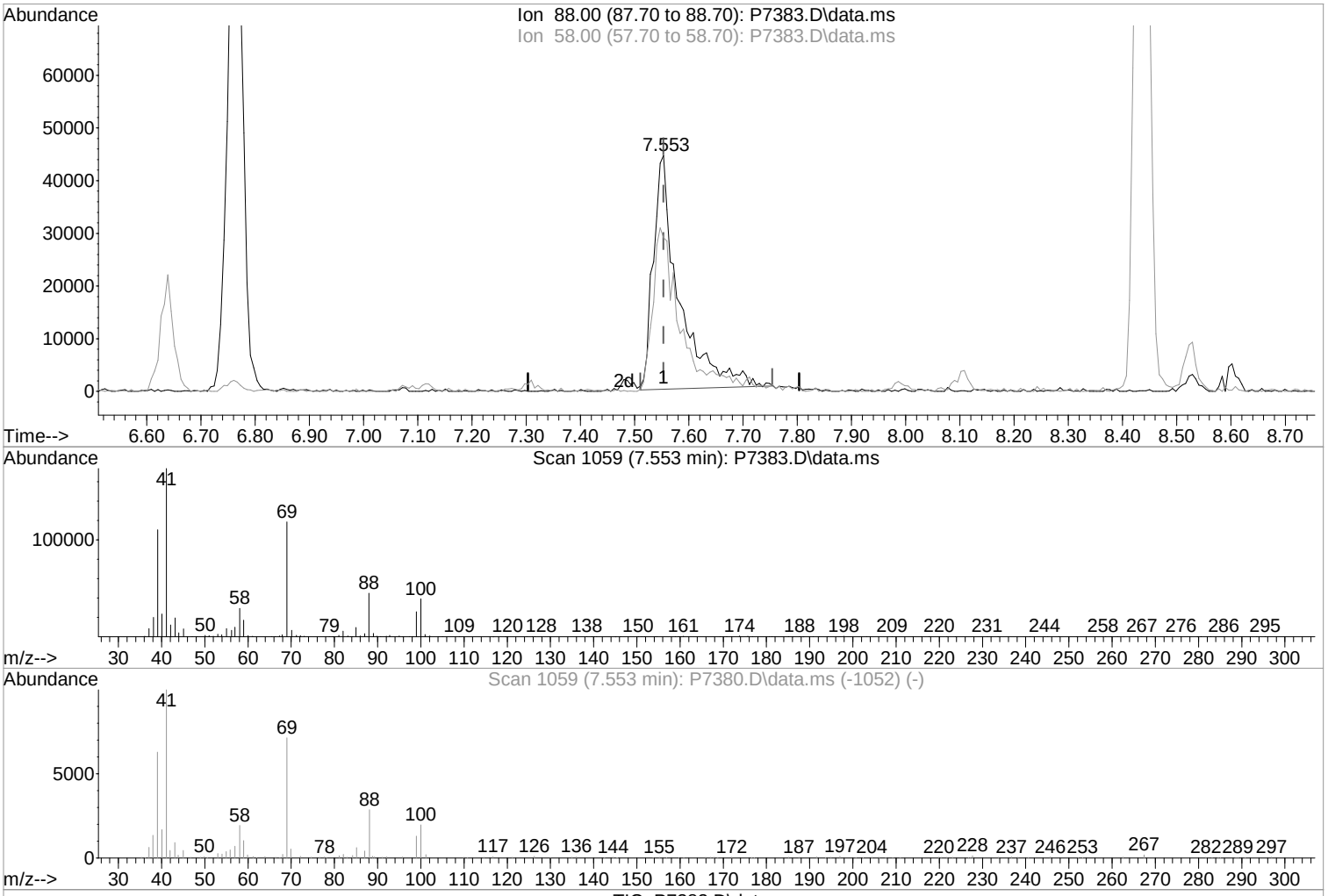
Poor integration.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7383.D
Acq On : 4 Jan 2017 5:22 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 08:58:24 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration



TIC: P7383.D\data.ms

(58) 1,4-Dioxane

7.553min (0.000) 2974.06 ppb

response 146814

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	65.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7383.D
Acq On : 4 Jan 2017 5:22 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 10:28:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	837931	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1363119	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1344072	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	765627	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	413921	56.27	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 112.54%				
48) surr1,1,2-dichloroetha...	6.090	65	443778	54.34	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.68%				
65) SURR3,Toluene-d8	8.523	98	1726094	56.76	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.52%				
70) SURR2,BFB	11.047	95	676807	57.43	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 114.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	2006760	196.82	ppb		99
3) Chloromethane	1.347	50	1799774	196.99	ppb		97
4) Vinyl Chloride	1.426	62	1697895	209.81	ppb		98
5) Bromomethane	1.683	94	925766	226.37	ppb		95
6) Chloroethane	1.762	64	846614	197.49	ppb		92
7) Freon 21	1.920	67	2035789	201.93	ppb		96
8) Trichlorofluoromethane	1.975	101	1804351	199.09	ppb		100
9) Diethyl Ether	2.225	59	761047	197.65	ppb		91
10) Freon 123a	2.231	67	1203849	189.21	ppb		98
11) Freon 123	2.292	83	1469364	200.49	ppb		99
12) Acrolein	2.335	56	631466	995.77	ppb		96
13) 1,1-Diclethene	2.426	96	1199280	202.04	ppb		97
14) Freon 113	2.432	101	1261647	196.74	ppb		97
15) Acetone	2.481	43	236759	192.00	ppb		98
16) 2-Propanol	2.640	45	839415	4297.38	ppb		95
17) Iodomethane	2.567	142	1562073	179.32	ppb		97
18) Carbon Disulfide	2.634	76	3641931	201.26	ppb		98
19) Acetonitrile	2.749	40	178171	922.08	ppb	#	83
20) Allyl Chloride	2.792	76	638561	181.00	ppb		98
21) Methyl Acetate	2.823	43	595654	203.04	ppb		97
22) Methylene Chloride	2.920	84	1241361	190.83	ppb		94
23) TBA	3.079	59	1464026	4341.24	ppb		97
24) Acrylonitrile	3.201	53	1457373	997.68	ppb		97
25) Methyl-t-Butyl Ether	3.255	73	2977687	190.50	ppb		100
26) trans-1,2-Dichloroethene	3.237	96	1299730	188.91	ppb		98
28) 1,1-Diclethane	3.786	63	2222115	192.89	ppb		99
29) Vinyl Acetate	3.896	86	225661	201.16	ppb	#	88
30) DIPE	3.938	45	4191843	195.85	ppb		94
31) 2-Chloro-1,3-Butadiene	3.920	53	2013965	205.40	ppb		99
32) ETBE	4.517	59	3712850	204.65	ppb		97
33) 2,2-Dichloropropane	4.700	77	1928048	212.38	ppb		100
34) cis-1,2-Dichloroethene	4.706	96	1380301	190.80	ppb		97
35) 2-Butanone	4.761	43	354275	198.27	ppb		90
36) Propionitrile	4.859	54	525166	945.31	ppb		93
37) Bromochloromethane	5.139	130	759402	191.08	ppb		92
38) Methacrylonitrile	5.151	67	334882	187.45	ppb		98
39) Tetrahydrofuran	5.231	42	220681	190.30	ppb		95
40) Chloroform	5.322	83	2139410	190.94	ppb		92
41) 1,1,1-Trichloroethane	5.590	97	1946500	198.13	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7383.D
Acq On : 4 Jan 2017 5:22 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 10:28:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	3264221	203.70	ppb		99
44) Cyclohexane	5.670	41	1390886	193.49	ppb		92
46) Carbontetrachloride	5.852	121	515405	203.83	ppb		99
47) 1,1-Dichloropropene	5.865	75	1734831	191.03	ppb		95
49) Benzene	6.169	78	4602316	190.82	ppb		99
50) 1,2-Dichloroethane	6.206	62	1554861	183.11	ppb		99
51) Iso-Butyl Alcohol	6.200	43	659496	4490.40	ppb		85
52) n-Heptane	6.639	43	1574180	193.78	ppb		94
53) 1-Butanol	7.114	56	959468	11281.31	ppb		99
54) Trichloroethene	7.078	130	1373179	195.24	ppb		98
55) Methylcyclohexane	7.309	55	1680061	201.94	ppb		94
56) 1,2-Diclpropane	7.352	63	1302055	190.57	ppb		98
57) Dibromomethane	7.486	93	656152	190.03	ppb		98
58) 1,4-Dioxane	7.553	88	157151m	3183.46	ppb		
59) Methyl Methacrylate	7.572	69	643566	196.57	ppb		91
60) Bromodichloromethane	7.706	83	1647477	196.23	ppb		97
61) 2-Nitropropane	7.980	41	276290	422.09	ppb		97
62) 2-Chloroethylvinyl Ether	8.102	63	669873	204.21	ppb		92
63) cis-1,3-Dichloropropene	8.236	75	2124785	215.83	ppb		99
64) 4-Methyl-2-pentanone	8.437	43	874580	203.46	ppb		95
66) Toluene	8.602	91	5259530	186.26	ppb		91
67) trans-1,3-Dichloropropene	8.858	75	1794140	222.08	ppb		95
68) Ethyl Methacrylate	8.998	69	1365860	218.88	ppb		100
69) 1,1,2-Trichloroethane	9.041	97	951850	198.69	ppb		95
72) Tetrachloroethene	9.181	164	1135080	194.70	ppb		97
73) 2-Hexanone	9.327	43	623410	205.99	ppb		98
74) 1,3-Dichloropropane	9.212	76	1712811	188.31	ppb		99
75) Dibromochloromethane	9.431	129	1160930	223.43	ppb		99
76) N-Butyl Acetate	9.474	43	1511137	204.60	ppb		99
77) 1,2-Dibromoethane	9.529	107	941002	198.55	ppb		90
78) Chlorobenzene	10.010	112	3590087	190.09	ppb		99
79) 3-CBTF	10.028	180	2162906	202.43	ppb		100
80) 4-CBTF	10.083	180	1930397	196.85	ppb		97
81) 1,1,1,2-Tetrachloroethane	10.096	131	1376488	219.43	ppb		97
82) Ethylbenzene	10.132	106	2037835	194.11	ppb	#	76
83) (m+p)Xylene	10.242	106	4719202	381.31	ppb	#	72
84) o-Xylene	10.595	106	2472873	200.51	ppb	#	86
85) Styrene	10.608	104	4060291	196.94	ppb		93
87) Bromoform	10.754	173	687325	252.55	ppb		100
88) 2-CBTF	10.833	180	2114412	200.80	ppb		95
89) Isopropylbenzene	10.925	105	5678883	181.48	ppb		91
90) Cyclohexanone	10.986	55	2091909	3800.03	ppb		94
91) trans-1,4-Dichloro-2-B...	11.229	53	318449	192.32	ppb		81
92) 1,1,2,2-Tetrachloroethane	11.181	83	1112756	185.83	ppb		98
93) Bromobenzene	11.168	156	1697805	199.83	ppb		96
94) 1,2,3-Trichloropropane	11.211	110	349198	182.14	ppb	#	87
95) n-Propylbenzene	11.278	91	6259747	172.33	ppb		83
96) 2-Chlorotoluene	11.339	91	4067474	187.05	ppb		95
97) 3-Chlorotoluene	11.394	91	4382771	183.07	ppb	#	90
98) 4-Chlorotoluene	11.431	91	4695377	185.19	ppb		93
99) 1,3,5-Trimethylbenzene	11.431	105	4926753	181.62	ppb		90
100) tert-Butylbenzene	11.699	119	4418291	198.97	ppb		96
101) 1,2,4-Trimethylbenzene	11.735	105	5103243	183.31	ppb		91
102) 3,4-DCBTF	11.796	214	1708312	209.35	ppb		99
103) sec-Butylbenzene	11.882	105	5901212	180.84	ppb		87
104) p-Isopropyltoluene	12.004	119	5057758	185.18	ppb		90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7383.D
Acq On : 4 Jan 2017 5:22 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 10:28:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

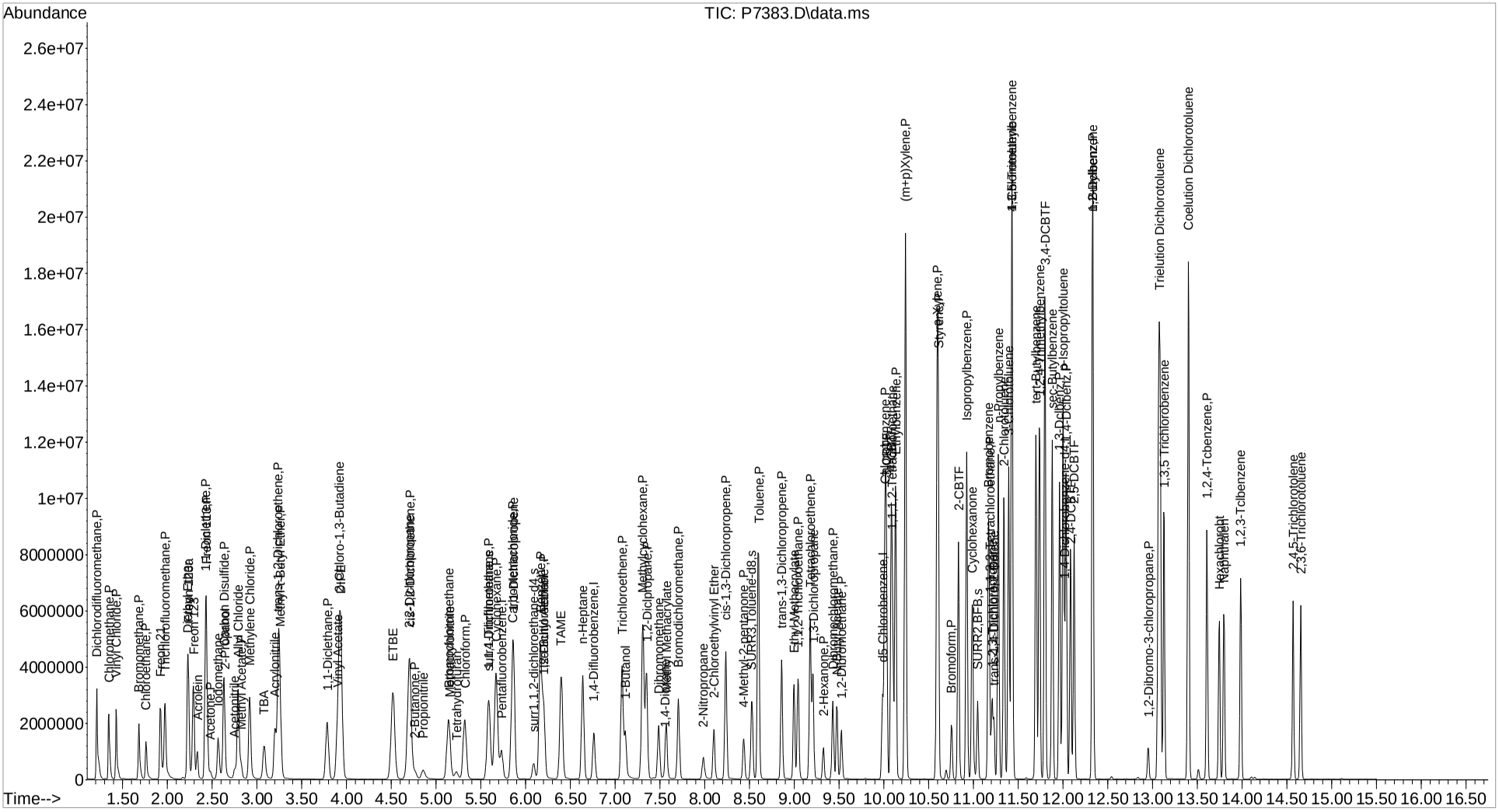
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.961	146	3155084	194.31	ppb		93
106) 1,4-Dclbenz	12.034	146	3119241	184.04	ppb		95
107) 2,4-DCBTF	12.089	214	1531690	203.78	ppb		95
108) 2,5-DCBTF	12.126	214	1644190	206.20	ppb		94
109) n-Butylbenzene	12.333	91	4705800	188.91	ppb		88
110) 1,2-Dclbenz	12.333	146	2938592	193.52	ppb		98
111) 1,2-Dibromo-3-chloropr...	12.955	157	229487	196.06	ppb		94
112) Trielution Dichlorotol...	13.077	125	7606951	582.23	ppb		93
113) 1,3,5 Trichlorobenzene	13.132	180	2262388	195.34	ppb		98
114) Coelution Dichlorotoluene	13.400	125	5287687	374.59	ppb	#	90
115) 1,2,4-Tcbenzene	13.607	180	1979214	196.40	ppb		96
116) Hexachlorobt	13.747	225	799761	174.27	ppb		95
117) Naphthalen	13.796	128	3534739	190.02	ppb		97
118) 1,2,3-Tclbenzene	13.985	180	1655452	199.52	ppb		99
119) 2,4,5-Trichlorotolene	14.570	159	1228346	190.57	ppb		97
120) 2,3,6-Trichlorotoluene	14.656	159	1089331	202.90	ppb		90

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7383.D
Acq On : 4 Jan 2017 5:22 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260/624 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 10:28:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 08:48:19 2017
Response via : Initial Calibration

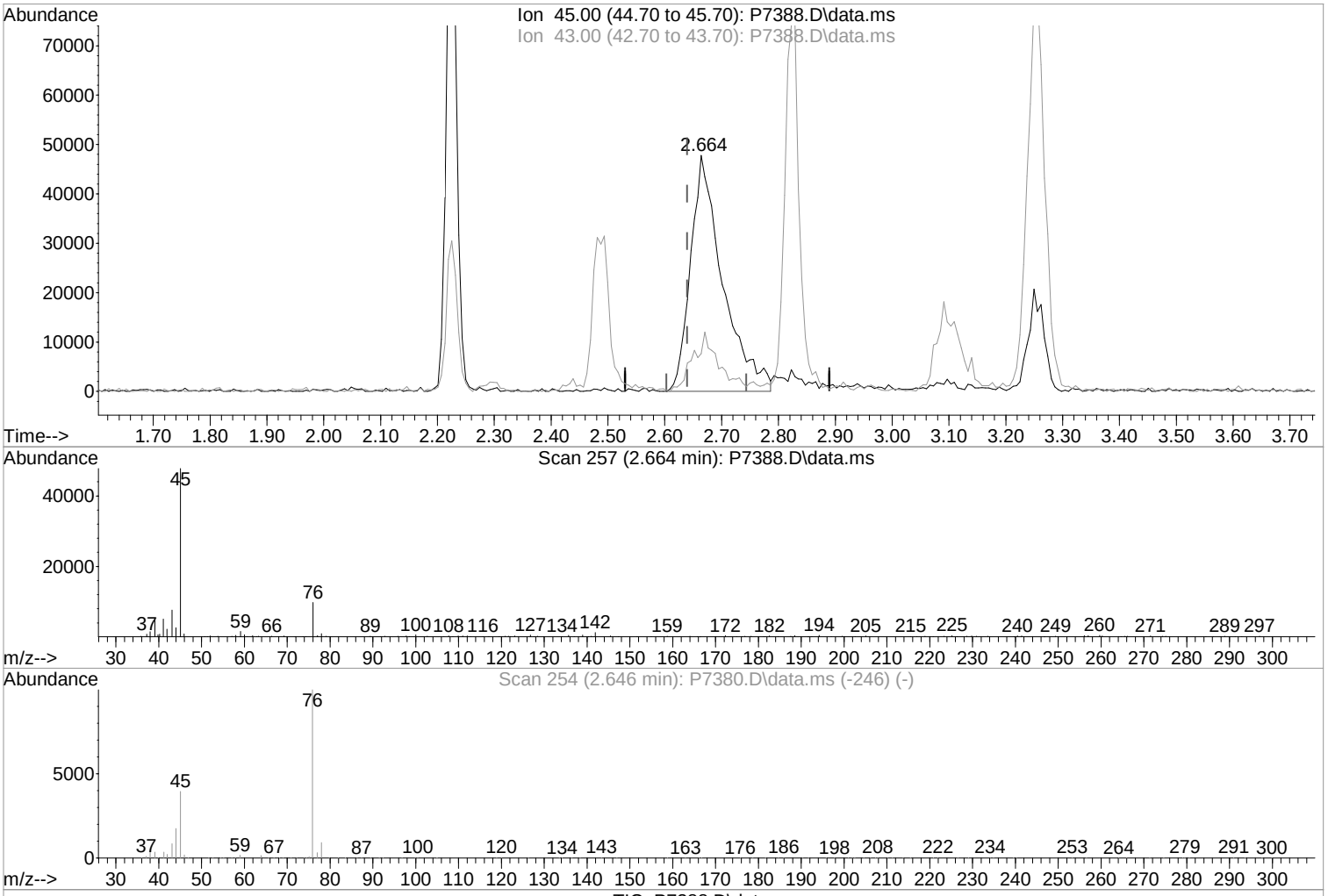


1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:51:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P7388.D\data.ms

(16) 2-Propanol

2.664min (+0.025) 948.44 ppb m

response 187386

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	15.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

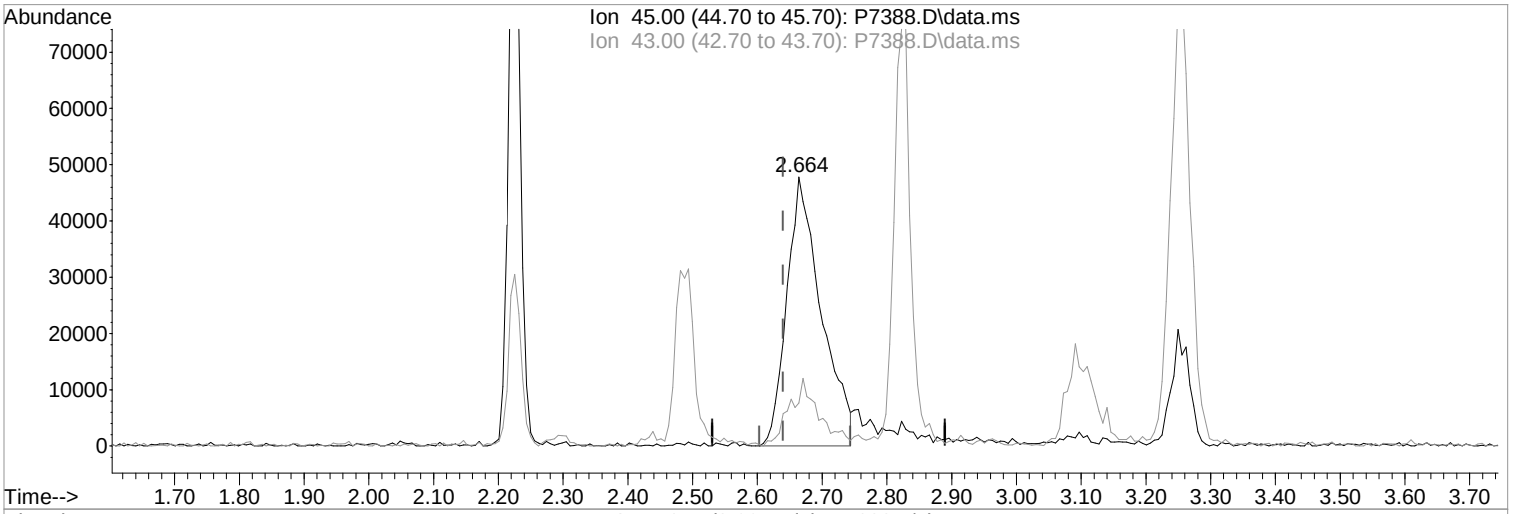
01/05/17

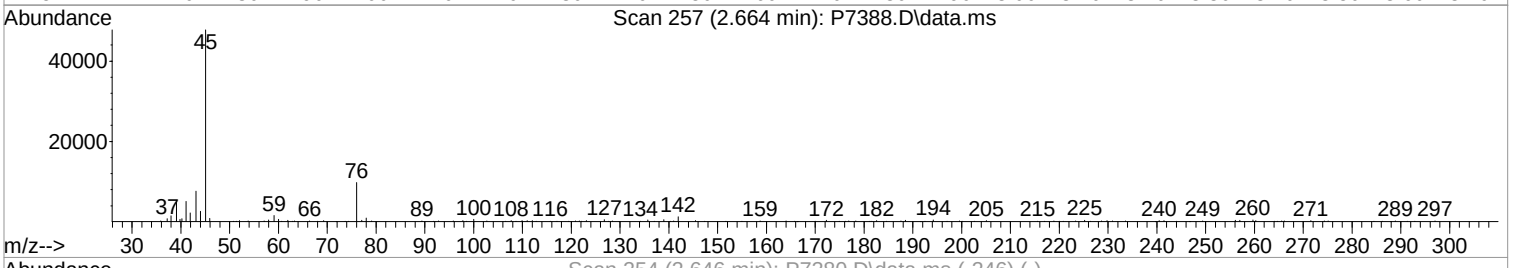
1st 01/05/17
2nd 01/05/17

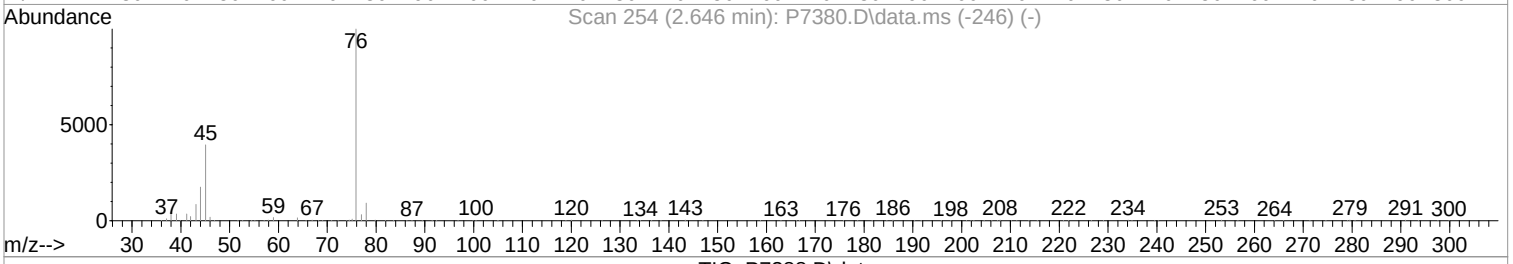
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:51:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P7388.D\data.ms

(16) 2-Propanol

2.664min (+0.025) 891.65 ppb

response 176166

Ion	Exp%	Act%
45.00	100	100
43.00	21.80	15.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

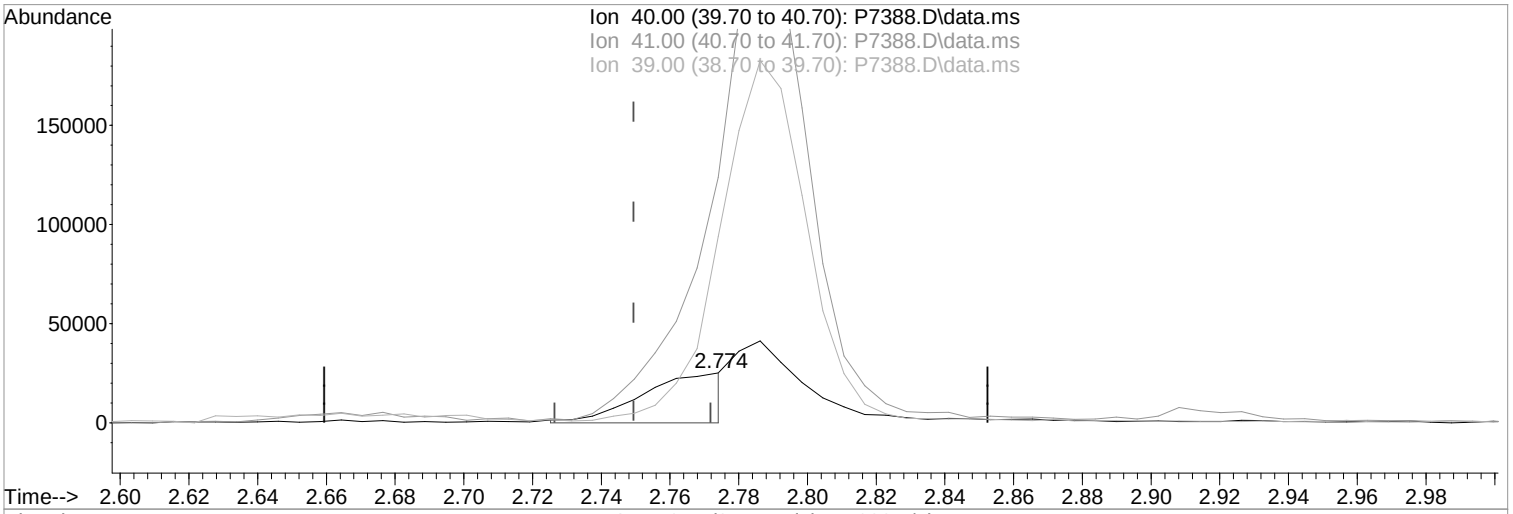
01/05/17

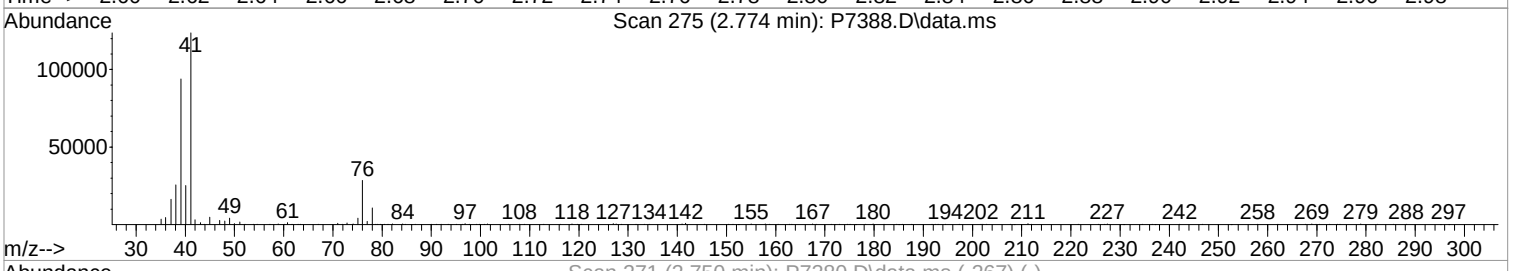
1st 01/05/17
2nd 01/05/17

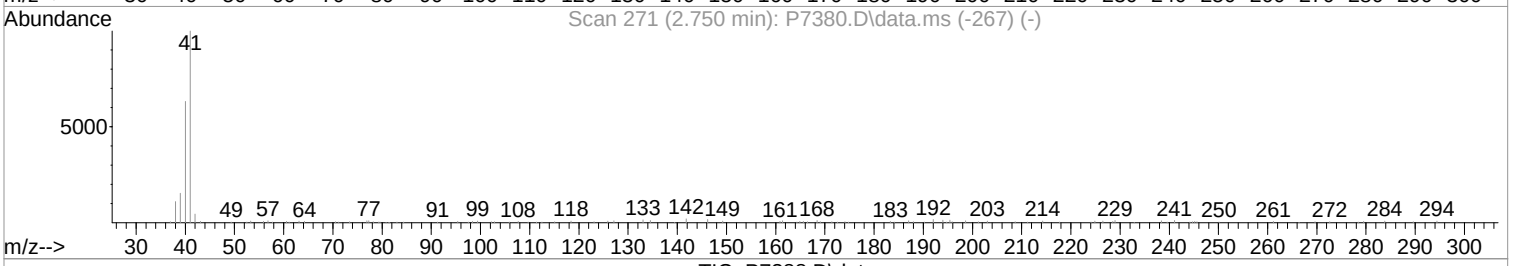
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:51:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P7388.D\data.ms

(19) Acetonitrile

2.774min (+0.025) 245.62 ppb m

response 41222

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	492.52#
39.00	26.70	373.85#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

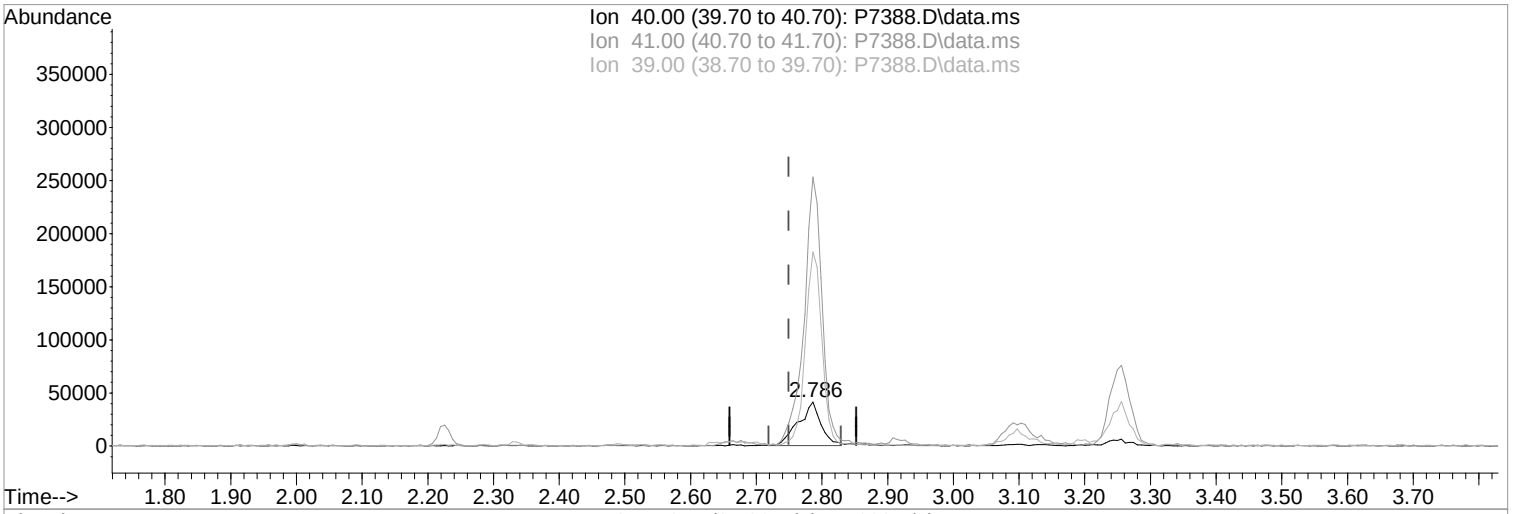
01/05/17

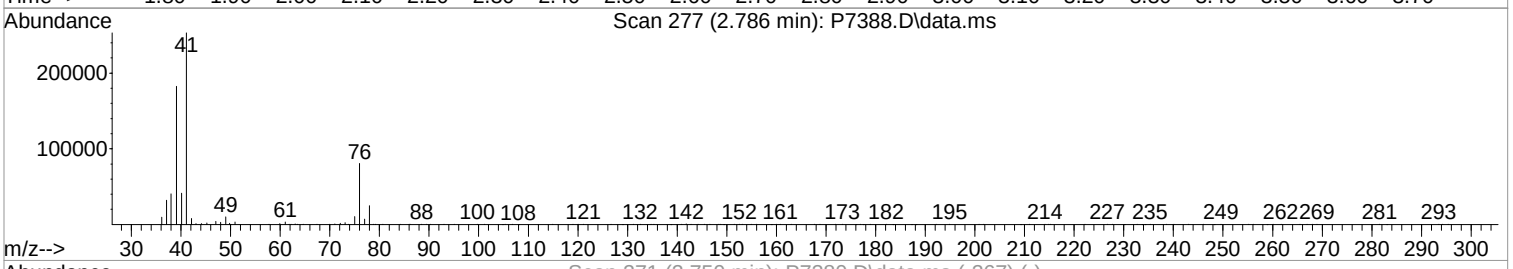
1st 01/05/17
2nd 01/05/17

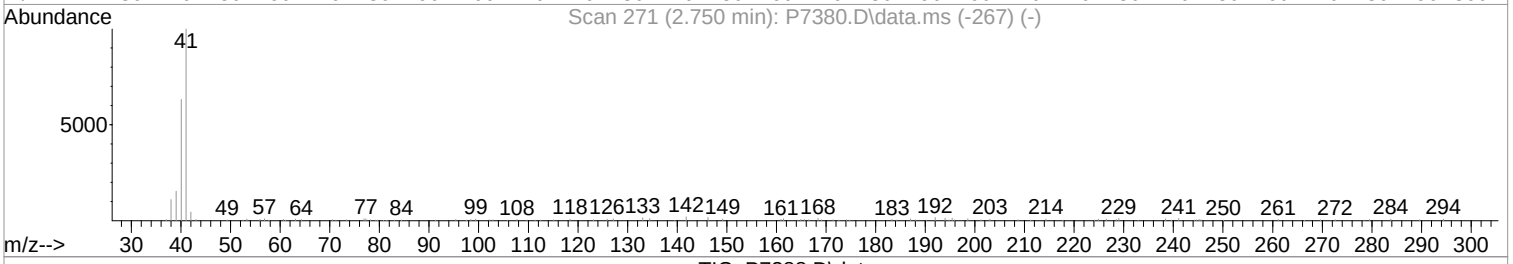
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:51:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P7388.D\data.ms

(19) Acetonitrile

2.786min (+0.037) 577.77 ppb

response 96967

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	613.52#
39.00	26.70	442.39#
0.00	0.00	0.00

Manual Integration:

Before

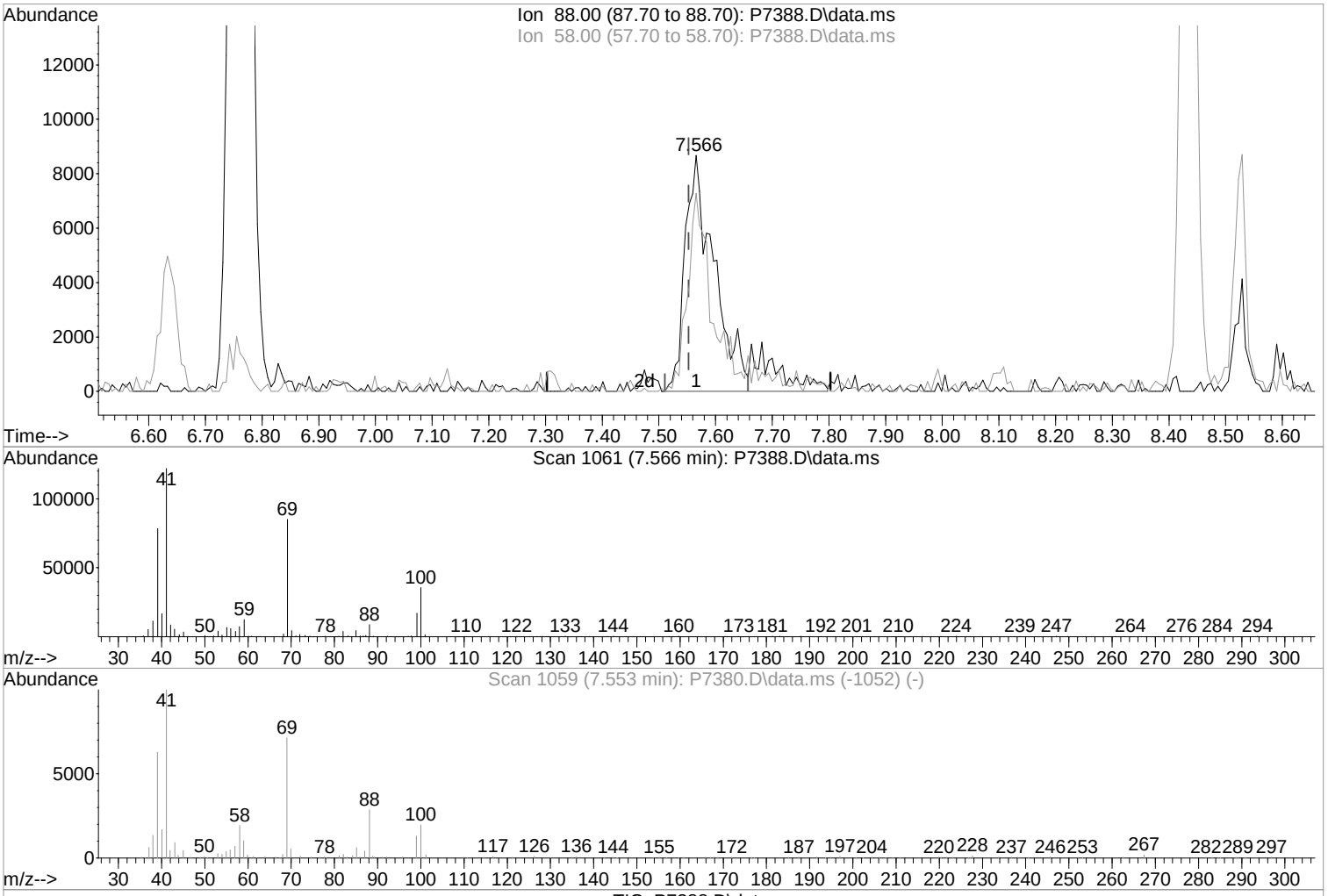
01/05/17

1st 01/05/17
2nd 01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:51:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P7388.D\data.ms

(58) 1,4-Dioxane

7.566min (+0.013) 857.15 ppb m

response 36380

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	83.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

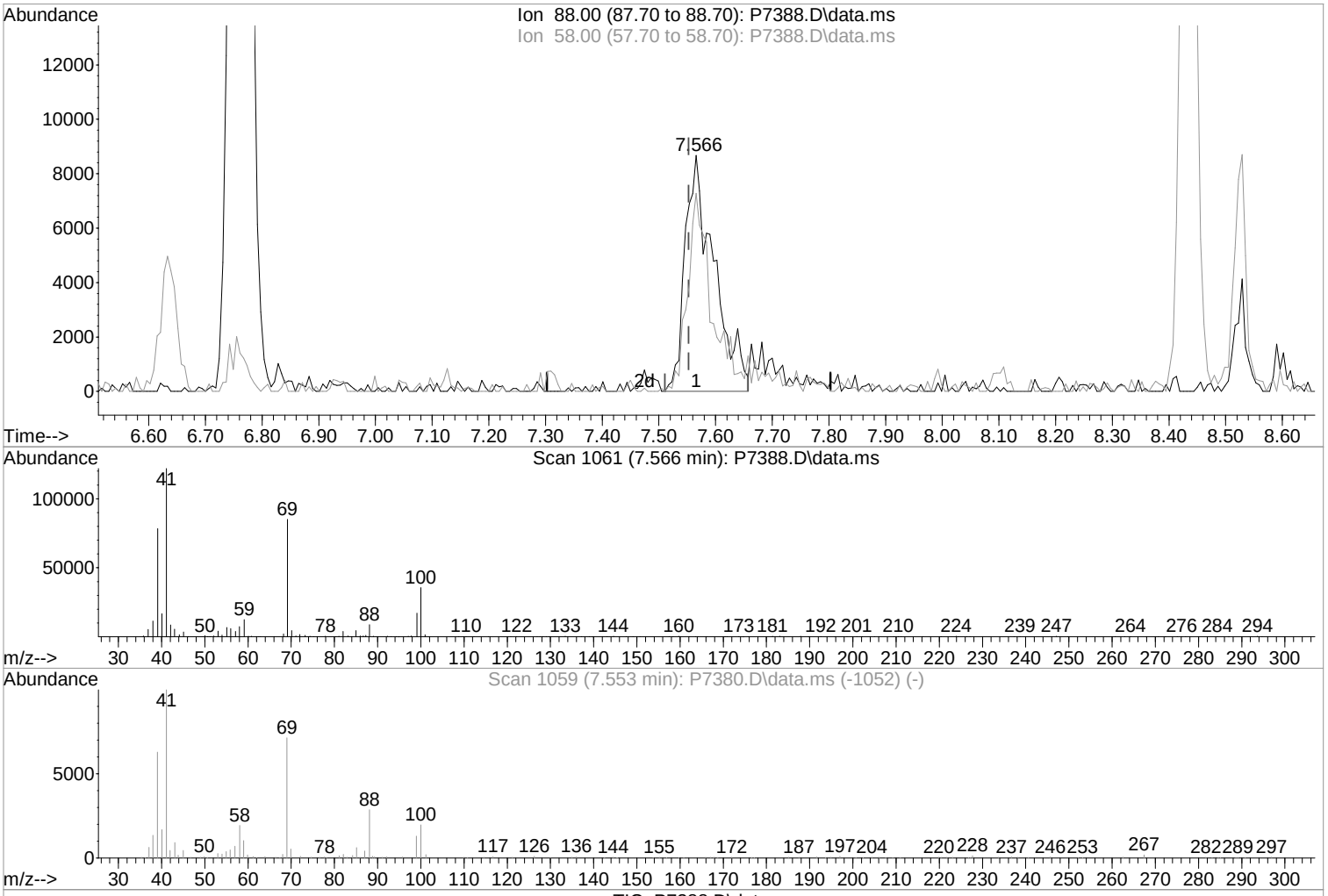
Poor integration.

01/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:51:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P7388.D\data.ms

(58) 1,4-Dioxane

7.566min (+0.013) 720.89 ppb

response 30907

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	83.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

01/05/17

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:53:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.0000	50.0000	0.0	101	0.00
2	P	Dichlorodifluoromethane	50.0000	42.7217	14.6	82	0.00
3	P	Chloromethane	50.0000	43.7169	12.6	92	0.00
4	P	Vinyl Chloride	50.0000	49.1995	1.6	93	0.00
5	P	Bromomethane	50.0000	48.8853	2.2	90	0.00
6	P	Chloroethane	50.0000	44.0471	11.9	86	0.00
7		Freon 21	50.0000	48.8082	2.4	105	0.00
8	P	Trichlorofluoromethane	50.0000	48.3909	3.2	96	0.00
9		Diethyl Ether	50.0000	47.4453	5.1	92	0.00
10		Freon 123a	50.0000	50.2531	-0.5	112	0.00
11		Freon 123	50.0000	50.6481	-1.3	108	0.00
12		Acrolein 100	~~250~~.0000	90.2550	9.8	~~63.9#~~	37	0.00
13	P	1,1-Diclethene	50.0000	45.3312	9.3	94	0.00
14	P	Freon 113	50.0000	44.8240	10.4	89	0.00
15	P	Acetone	50.0000	53.8740	-7.7	116	0.01
16		2-Propanol	1000.0000	948.4383	5.2	95	0.02
17		Iodomethane	50.0000	52.1426	-4.3	99	0.00
18	P	Carbon Disulfide	50.0000	53.8146	-7.6	104	0.00
19		Acetonitrile	250.0000	245.6196	1.8	95	0.02
20		Allyl Chloride	50.0000	39.9742	20.1#	81	0.00
21	P	Methyl Acetate	50.0000	48.1126	3.8	94	0.00
22	P	Methylene Chloride	50.0000	44.3732	11.3	93	0.00
23		TBA	1000.0000	986.8107	1.3	96	0.01
24		Acrylonitrile	250.0000	236.4171	5.4	92	0.00
25	P	Methyl-t-Butyl Ether	50.0000	46.4071	7.2	94	0.00
26	P	trans-1,2-Dichloroethene	50.0000	44.6513	10.7	95	0.00
27		Halothane	-1.0000	0.0000	0.0	0	0.03
28	P	1,1-Diclethane	50.0000	45.9332	8.1	94	0.00
29		Vinyl Acetate	50.0000	43.8189	12.4	88	0.00
30		DIPE	50.0000	47.4296	5.1	95	0.00
31		2-Chloro-1,3-Butadiene	50.0000	56.2927	-12.6	112	0.00
32		ETBE	50.0000	48.4313	3.1	95	0.00
33		2,2-Dichloropropane	50.0000	45.4979	9.0	90	-0.01
34	P	cis-1,2-Dichloroethene	50.0000	44.8946	10.2	95	0.00
35	P	2-Butanone	50.0000	51.5237	-3.0	108	0.01
36		Propionitrile	250.0000	227.7344	8.9	104	0.00
37		Bromochloromethane	50.0000	46.9777	6.0	92	0.00
38		Methacrylonitrile	50.0000	44.6981	10.6	96	-0.01
39		Tetrahydrofuran	50.0000	50.3372	-0.7	104	0.00
40	P	Chloroform	50.0000	45.4711	9.1	92	0.00
41	P	1,1,1-Trichloroethane	50.0000	46.0963	7.8	97	0.00
42		TAME	50.0000	49.6751	0.6	96	0.00
43	I	1,4-Difluorobenzene	50.0000	50.0000	0.0	99	0.00
44	P	Cyclohexane	50.0000	45.6766	8.6	102	0.00
45	s	surr4,Dibrflmethane	50.0000	54.8310	-9.7	100	0.00
46	P	Carbontetrachloride	50.0000	44.7508	10.5	96	0.00
47		1,1-Dichloropropene	50.0000	47.3666	5.3	92	0.00
48	s	surr1,1,2-dichloroethane-d4	50.0000	54.8824	-9.8	100	0.00
49	P	Benzene	50.0000	49.4591	1.1	97	0.00
50	P	1,2-Dichloroethane	50.0000	46.8934	6.2	95	0.00
51		Iso-Butyl Alcohol	1000.0000	944.0277	5.6	90	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:53:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.0000	47.7055	4.6	93	0.00
53		1-Butanol	2500.0000	2435.2625	2.6	94	0.00
54	P	Trichloroethene	50.0000	50.5648	-1.1	98	0.00
55	P	Methylcyclohexane	50.0000	47.6866	4.6	99	0.00
56	P	1,2-Diclpropane	50.0000	46.3249	7.4	93	0.00
57		Dibromomethane	50.0000	47.1403	5.7	93	0.00
58		1,4-Dioxane	1000.0000	857.1495	14.3	88	0.01
59		Methyl Methacrylate	50.0000	49.3922	1.2	101	0.00
60	P	Bromodichloromethane	50.0000	45.7216	8.6	94	0.00
61		2-Nitropropane	100.0000	79.7110	20.3#	102	0.00
62		2-Chloroethylvinyl Ether	50.0000	57.2169	-14.4	112	0.00
63	P	cis-1,3-Dichloropropene	50.0000	50.4583	-0.9	94	0.00
64	P	4-Methyl-2-pentanone	50.0000	52.6463	-5.3	102	0.00
65	s	SURR3,Toluene-d8	50.0000	56.5392	-13.1	99	0.00
66	P	Toluene	50.0000	49.3224	1.4	94	0.00
67	P	trans-1,3-Dichloropropene	50.0000	52.4069	-4.8	95	0.00
68		Ethyl Methacrylate	50.0000	54.4887	-9.0	102	0.00
69	P	1,1,2-Trichloroethane	50.0000	50.4443	-0.9	97	0.00
70	s	SURR2,BFB	50.0000	57.2958	-14.6	99	0.00
71	I	d5-Chlorobenzene	50.0000	50.0000	0.0	100	0.00
72	P	Tetrachloroethene	50.0000	46.2808	7.4	92	0.00
73	P	2-Hexanone	50.0000	54.0708	-8.1	106	0.00
74		1,3-Dichloropropane	50.0000	46.4183	7.2	93	0.00
75	P	Dibromochloromethane	50.0000	51.0824	-2.2	101	0.00
76		N-Butyl Acetate	50.0000	47.6552	4.7	98	0.00
77	P	1,2-Dibromoethane	50.0000	49.8436	0.3	97	0.00
78	P	Chlorobenzene	50.0000	48.3188	3.4	97	0.00
79		3-CBTF	50.0000	47.1417	5.7	96	0.00
80		4-CBTF	50.0000	46.3264	7.3	93	0.00
81		1,1,1,2-Tetrachloroethane	50.0000	50.8531	-1.7	97	0.00
82	P	Ethylbenzene	50.0000	48.8847	2.2	99	0.00
83	P	(m+p)Xylene	100.0000	98.9505	1.0	96	0.00
84	P	o-Xylene	50.0000	50.1088	-0.2	98	0.00
85	P	Styrene	50.0000	50.0667	-0.1	94	0.00
86	I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	97	0.00
87	P	Bromoform	50.0000	50.1302	-0.3	101	0.00
88		2-CBTF	50.0000	46.1153	7.8	92	0.00
89	P	Isopropylbenzene	50.0000	51.2649	-2.5	99	0.00
90		Cyclohexanone	1000.0000	788.3349	21.2#	76	0.00
91		trans-1,4-Dichloro-2-Butene	50.0000	50.4971	-1.0	94	0.00
92	P	1,1,2,2-Tetrachloroethane	50.0000	46.2921	7.4	94	0.00
93		Bromobenzene	50.0000	48.5310	2.9	96	0.00
94		1,2,3-Trichloropropane	50.0000	43.9822	12.0	94	0.00
95		n-Propylbenzene	50.0000	52.4683	-4.9	96	0.00
96		2-Chlorotoluene	50.0000	49.9601	0.1	96	0.00
97		3-Chlorotoluene	50.0000	48.7085	2.6	92	0.00
98		4-Chlorotoluene	50.0000	50.0748	-0.1	95	0.00
99		1,3,5-Trimethylbenzene	50.0000	51.0383	-2.1	97	0.00
100		tert-Butylbenzene	50.0000	53.8088	-7.6	98	0.00
101		1,2,4-Trimethylbenzene	50.0000	50.2701	-0.5	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:53:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-DCBTF	50.0000	47.4796	5.0	92	0.00
103		sec-Butylbenzene	50.0000	51.9163	-3.8	96	0.00
104		p-Isopropyltoluene	50.0000	54.2836	-8.6	100	0.00
105	P	1,3-Dclbenz	50.0000	49.8737	0.3	96	0.00
106	P	1,4-Dclbenz	50.0000	48.1274	3.7	97	0.00
107		2,4-DCBTF	50.0000	46.8497	6.3	95	0.00
108		2,5-DCBTF	50.0000	47.6996	4.6	92	0.00
109		n-Butylbenzene	50.0000	51.9154	-3.8	94	0.00
110	P	1,2-Dclbenz	50.0000	49.7442	0.5	97	0.00
111	P	1,2-Dibromo-3-chloropropane	50.0000	44.1661	11.7	95	0.00
112		Trielution Dichlorotoluene	150.0000	149.7150	0.2	93	0.00
113		1,3,5 Trichlorobenzene	50.0000	47.8904	4.2	95	0.00
114		Coelution Dichlorotoluene	100.0000	99.7693	0.2	93	0.00
115	P	1,2,4-Tcbenzene	50.0000	48.6941	2.6	95	0.00
116		Hexachlorobt	50.0000	42.3252	15.3	92	0.00
117		Naphthalen	50.0000	49.9735	0.1	95	0.00
118		1,2,3-Tclbenzene	50.0000	49.7474	0.5	96	0.00
119		2,4,5-Trichlorotolene	50.0000	43.3521	13.3	89	0.00
120		2,3,6-Trichlorotoluene	50.0000	44.6433	10.7	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
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Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	796557	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1253820	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1249714	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	704887	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	370969	54.83	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.66%				
48) surr1,1,2-dichloroetha...	6.090	65	412265	54.88	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.76%				
65) SURR3,Toluene-d8	8.523	98	1581531	56.54	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.08%				
70) SURR2,BFB	11.047	95	621035	57.30	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 114.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	414085	42.72	ppb		100
3) Chloromethane	1.341	50	379693	43.72	ppb		94
4) Vinyl Chloride	1.427	62	378490	49.20	ppb		98
5) Bromomethane	1.683	94	190051	48.89	ppb		93
6) Chloroethane	1.762	64	179499	44.05	ppb		88
7) Freon 21	1.921	67	475297	48.81	ppb		96
8) Trichlorofluoromethane	1.975	101	416909	48.39	ppb		96
9) Diethyl Ether	2.225	59	173670	47.45	ppb		92
10) Freon 123a	2.231	67	303747	50.25	ppb		94
11) Freon 123	2.286	83	352863	50.65	ppb		95
12) Acrolein	2.335	56	54409	90.26	ppb		93
13) 1,1-Diclethene	2.427	96	255794	45.33	ppb		95
14) Freon 113	2.439	101	273253	44.82	ppb		99
15) Acetone	2.494	43	63032	53.87	ppb		97
16) 2-Propanol	2.664	45	187386m	948.44	ppb		
17) Iodomethane	2.567	142	431786	52.14	ppb		96
18) Carbon Disulfide	2.628	76	925730	53.81	ppb		98
19) Acetonitrile	2.774	40	41222m	245.62	ppb		
20) Allyl Chloride	2.792	76	134512	39.97	ppb		95
21) Methyl Acetate	2.829	43	134175	48.11	ppb		96
22) Methylene Chloride	2.920	84	274400	44.37	ppb		89
23) TBA	3.091	59	322624	986.81	ppb		98
24) Acrylonitrile	3.201	53	322699	236.42	ppb		94
25) Methyl-t-Butyl Ether	3.256	73	690535	46.41	ppb		98
26) trans-1,2-Dichloroethene	3.237	96	292047	44.65	ppb		89
28) 1,1-Diclethane	3.786	63	503040	45.93	ppb		96
29) Vinyl Acetate	3.902	86	46729	43.82	ppb	#	79
30) DIPE	3.932	45	965014	47.43	ppb		93
31) 2-Chloro-1,3-Butadiene	3.920	53	528213	56.29	ppb		97
32) ETBE	4.518	59	835270	48.43	ppb		98
33) 2,2-Dichloropropane	4.688	77	392635	45.50	ppb		96
34) cis-1,2-Dichloroethene	4.707	96	312696	44.89	ppb		93
35) 2-Butanone	4.774	43	88656	51.52	ppb		98
36) Propionitrile	4.859	54	118653	227.73	ppb		97
37) Bromochloromethane	5.139	130	178787	46.98	ppb		96
38) Methacrylonitrile	5.139	67	75910	44.70	ppb		91
39) Tetrahydrofuran	5.231	42	55490	50.34	ppb		84
40) Chloroform	5.316	83	484321	45.47	ppb		96
41) 1,1,1-Trichloroethane	5.584	97	430497	46.10	ppb		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:53:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	756731	49.68	ppb		97
44) Cyclohexane	5.664	41	299513	45.68	ppb		89
46) Carbontetrachloride	5.853	121	103357	44.75	ppb		98
47) 1,1-Dichloropropene	5.865	75	395656	47.37	ppb		95
49) Benzene	6.164	78	1097252	49.46	ppb		98
50) 1,2-Dichloroethane	6.200	62	367592	46.89	ppb		98
51) Iso-Butyl Alcohol	6.200	43	130607	944.03	ppb	#	67
52) n-Heptane	6.639	43	356464	47.71	ppb		92
53) 1-Butanol	7.121	56	195483	2435.26	ppb		95
54) Trichloroethene	7.072	130	327350	50.56	ppb		97
55) Methylcyclohexane	7.304	55	364311	47.69	ppb		94
56) 1,2-Diclpropane	7.346	63	291129	46.32	ppb		99
57) Dibromomethane	7.487	93	150088	47.14	ppb		95
58) 1,4-Dioxane	7.566	88	36380m	857.15	ppb		
59) Methyl Methacrylate	7.566	69	148742	49.39	ppb		98
60) Bromodichloromethane	7.706	83	353080	45.72	ppb		98
61) 2-Nitropropane	7.980	41	48726	79.71	ppb		97
62) 2-Chloroethylvinyl Ether	8.102	63	172638	57.22	ppb		98
63) cis-1,3-Dichloropropene	8.236	75	456913	50.46	ppb		94
64) 4-Methyl-2-pentanone	8.431	43	208052	52.65	ppb		92
66) Toluene	8.596	91	1280930	49.32	ppb		98
67) trans-1,3-Dichloropropene	8.858	75	389444	52.41	ppb		99
68) Ethyl Methacrylate	8.992	69	313285	54.49	ppb		97
69) 1,1,2-Trichloroethane	9.041	97	222282	50.44	ppb		96
72) Tetrachloroethene	9.175	164	250873	46.28	ppb		97
73) 2-Hexanone	9.322	43	152149	54.07	ppb		97
74) 1,3-Dichloropropane	9.206	76	392558	46.42	ppb		99
75) Dibromochloromethane	9.431	129	246793	51.08	ppb		92
76) N-Butyl Acetate	9.474	43	327260	47.66	ppb		99
77) 1,2-Dibromoethane	9.523	107	219648	49.84	ppb		92
78) Chlorobenzene	10.010	112	848486	48.32	ppb		96
79) 3-CBTF	10.029	180	468328	47.14	ppb		96
80) 4-CBTF	10.077	180	422412	46.33	ppb		99
81) 1,1,1,2-Tetrachloroethane	10.096	131	293587	50.85	ppb		94
82) Ethylbenzene	10.126	106	477172	48.88	ppb		91
83) (m+p)Xylene	10.242	106	1138673	98.95	ppb		99
84) o-Xylene	10.596	106	574607	50.11	ppb		94
85) Styrene	10.608	104	959763	50.07	ppb		98
87) Bromoform	10.754	173	135603	50.13	ppb		98
88) 2-CBTF	10.833	180	447075	46.12	ppb		99
89) Isopropylbenzene	10.925	105	1476886	51.26	ppb		99
90) Cyclohexanone	10.986	55	399548	788.33	ppb		93
91) trans-1,4-Dichloro-2-B...	11.224	53	68586	50.50	ppb		86
92) 1,1,2,2-Tetrachloroethane	11.175	83	255207	46.29	ppb		96
93) Bromobenzene	11.169	156	379612	48.53	ppb		94
94) 1,2,3-Trichloropropane	11.205	110	77631	43.98	ppb		91
95) n-Propylbenzene	11.272	91	1745107	52.47	ppb		99
96) 2-Chlorotoluene	11.339	91	1000192	49.96	ppb		99
97) 3-Chlorotoluene	11.388	91	1081227	48.71	ppb		98
98) 4-Chlorotoluene	11.431	91	1168972	50.07	ppb		98
99) 1,3,5-Trimethylbenzene	11.425	105	1274696	51.04	ppb		99
100) tert-Butylbenzene	11.699	119	1100081	53.81	ppb		99
101) 1,2,4-Trimethylbenzene	11.736	105	1288476	50.27	ppb		99
102) 3,4-DCBTF	11.797	214	356706	47.48	ppb		98
103) sec-Butylbenzene	11.876	105	1559731	51.92	ppb		97
104) p-Isopropyltoluene	11.998	119	1365002	54.28	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:53:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

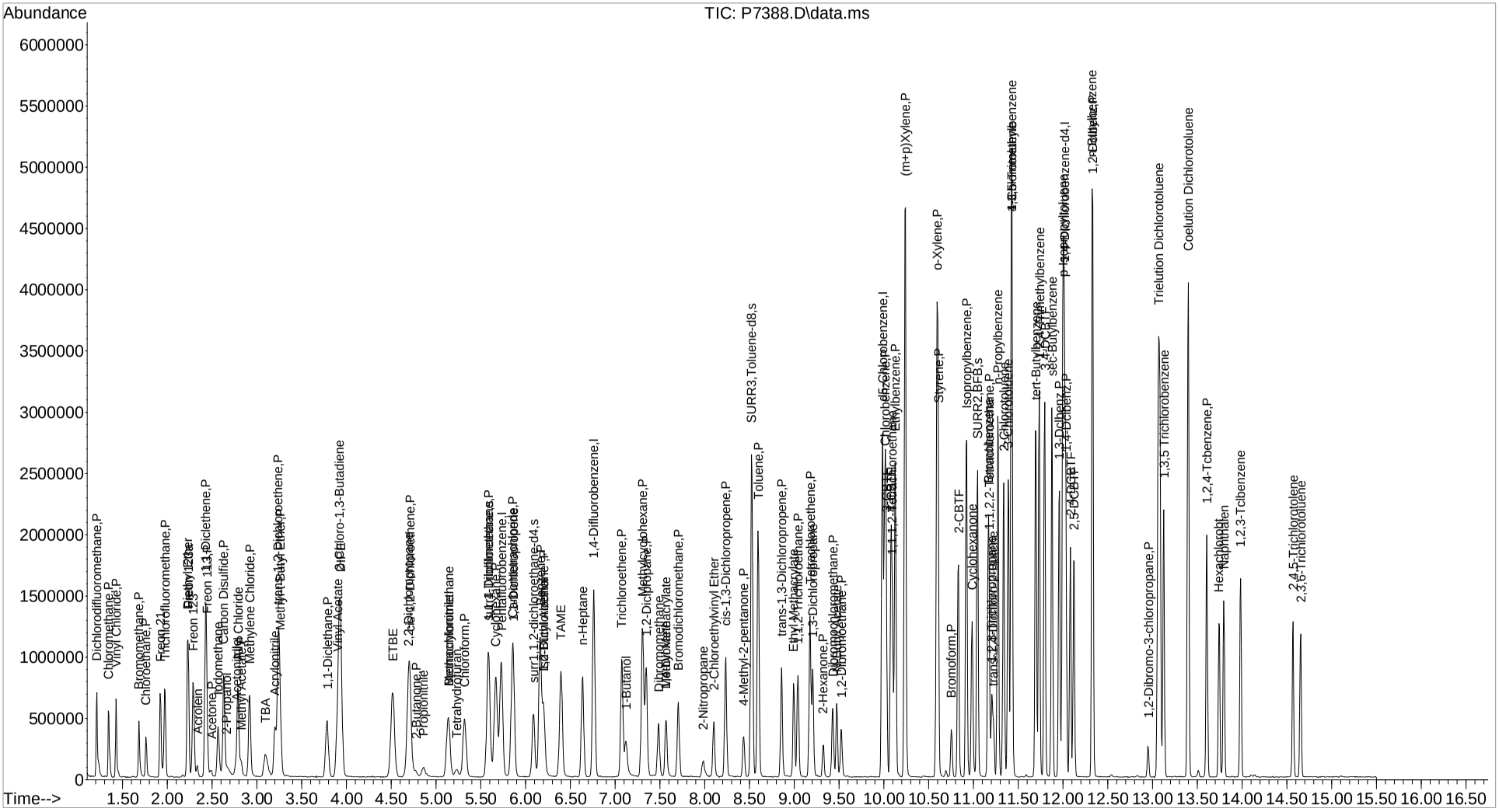
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	745582	49.87	ppb	98
106) 1,4-Dclbenz	12.034	146	750987	48.13	ppb	98
107) 2,4-DCBTF	12.083	214	324203	46.85	ppb	98
108) 2,5-DCBTF	12.126	214	350178	47.70	ppb	95
109) n-Butylbenzene	12.327	91	1190667	51.92	ppb	97
110) 1,2-Dclbenz	12.333	146	695425	49.74	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.955	157	47594	44.17	ppb	86
112) Trielution Dichlorotol...	13.071	125	1800873	149.72	ppb	99
113) 1,3,5 Trichlorobenzene	13.126	180	510660	47.89	ppb	97
114) Coelution Dichlorotoluene	13.400	125	1296599	99.77	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	451774	48.69	ppb	99
116) Hexachlorobt	13.741	225	178827	42.33	ppb	96
117) Naphthalen	13.796	128	855850	49.97	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	380025	49.75	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	257323	43.35	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	220605	44.64	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\010417\
Data File : P7388.D
Acq On : 4 Jan 2017 7:51 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 10:53:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood **Calibration Date:** 1/4/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700007 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1700007-01	0.5ppb	I:\ACQUDATA\msvoa12\Data\010417\P7375.D	01/04/2017 13:23
02	RC1700007-02	1.0ppb	I:\ACQUDATA\msvoa12\Data\010417\P7376.D	01/04/2017 13:53
03	RC1700007-03	2.0ppb	I:\ACQUDATA\msvoa12\Data\010417\P7377.D	01/04/2017 14:23
04	RC1700007-04	5.0ppb	I:\ACQUDATA\msvoa12\Data\010417\P7378.D	01/04/2017 14:53
05	RC1700007-05	20ppb	I:\ACQUDATA\msvoa12\Data\010417\P7379.D	01/04/2017 15:23
06	RC1700007-06	50ppb	I:\ACQUDATA\msvoa12\Data\010417\P7380.D	01/04/2017 15:53
07	RC1700007-07	100ppb	I:\ACQUDATA\msvoa12\Data\010417\P7381.D	01/04/2017 16:22
08	RC1700007-08	150ppb	I:\ACQUDATA\msvoa12\Data\010417\P7382.D	01/04/2017 16:52
09	RC1700007-09	200ppb	I:\ACQUDATA\msvoa12\Data\010417\P7383.D	01/04/2017 17:22

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7116	01	0.500	0.7116	02	1.000	0.6312	02	1.000	0.6312
03	2.000	0.5233	03	2.000	0.5233	04	5.000	0.5705	04	5.000	0.5705
05	20.000	0.5458	05	20.000	0.5458	06	50.000	0.5661	06	50.000	0.5661
07	100.000	0.5718	07	100.000	0.5718	08	150.000	0.5749	08	150.000	0.5749
09	200.000	0.5807	09	200.000	0.5807						

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7533	01	0.500	0.7533	02	1.000	0.7705	02	1.000	0.7705
03	2.000	0.6639	03	2.000	0.6639	04	5.000	0.6745	04	5.000	0.6745
05	20.000	0.6385	05	20.000	0.6385	06	50.000	0.6818	06	50.000	0.6818
07	100.000	0.6706	07	100.000	0.6706	08	150.000	0.6707	08	150.000	0.6707
09	200.000	0.663	09	200.000	0.663						

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4397	01	0.500	0.4397	02	1.000	0.3317	02	1.000	0.3317
03	2.000	0.3428	03	2.000	0.3428	04	5.000	0.3336	04	5.000	0.3336
05	20.000	0.3261	05	20.000	0.3261	06	50.000	0.3457	06	50.000	0.3457
07	100.000	0.3535	07	100.000	0.3535	08	150.000	0.3568	08	150.000	0.3568
09	200.000	0.3578	09	200.000	0.3578						

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2545	01	0.500	0.2545	02	1.000	0.204	02	1.000	0.204
03	2.000	0.2053	03	2.000	0.2053	04	5.000	0.22	04	5.000	0.22
05	20.000	0.2092	05	20.000	0.2092	06	50.000	0.2173	06	50.000	0.2173
07	100.000	0.2171	07	100.000	0.2171	08	150.000	0.2133	08	150.000	0.2133
09	200.000	0.2111	09	200.000	0.2111						

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2396	01	0.500	0.2396	02	1.000	0.2569	02	1.000	0.2569

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood **Calibration Date:** 1/4/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700007 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2835	03	2.000	0.2835	04	5.000	0.2618	04	5.000	0.2618
05	20.000	0.2456	05	20.000	0.2456	06	50.000	0.2638	06	50.000	0.2638
07	100.000	0.2611	07	100.000	0.2611	08	150.000	0.2594	08	150.000	0.2594
09	200.000	0.2518	09	200.000	0.2518						

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3798	01	0.500	0.3798	02	1.000	0.471	02	1.000	0.471
03	2.000	0.4781	03	2.000	0.4781	04	5.000	0.4848	04	5.000	0.4848
05	20.000	0.4998	05	20.000	0.4998	06	50.000	0.5177	06	50.000	0.5177
07	100.000	0.504	07	100.000	0.504	08	150.000	0.5041	08	150.000	0.5041
09	200.000	0.5066	09	200.000	0.5066						

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.526	01	0.500	0.526	02	1.000	0.4464	02	1.000	0.4464
03	2.000	0.4549	03	2.000	0.4549	04	5.000	0.4465	04	5.000	0.4465
05	20.000	0.3942	05	20.000	0.3942	06	50.000	0.4199	06	50.000	0.4199
07	100.000	0.4188	07	100.000	0.4188	08	150.000	0.4163	08	150.000	0.4163
09	200.000	0.4118	09	200.000	0.4118						

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4917	01	0.500	0.4917	02	1.000	0.4426	02	1.000	0.4426
03	2.000	0.4272	03	2.000	0.4272	04	5.000	0.3995	04	5.000	0.3995
05	20.000	0.3801	05	20.000	0.3801	06	50.000	0.3909	06	50.000	0.3909
07	100.000	0.3874	07	100.000	0.3874	08	150.000	0.3877	08	150.000	0.3877
09	200.000	0.3878	09	200.000	0.3878						

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.4962	06	50.000	0.4962	03	60.000	0.4578	03	60.000	0.4578
04	70.000	0.4332	04	70.000	0.4332	05	100.000	0.4049	05	100.000	0.4049
07	125.000	0.4082	07	125.000	0.4082	08	150.000	0.3933	08	150.000	0.3933

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.2944	06	50.000	0.2944	03	60.000	0.2876	03	60.000	0.2876
04	70.000	0.2775	04	70.000	0.2775	05	100.000	0.2577	05	100.000	0.2577
07	125.000	0.2537	07	125.000	0.2537	08	150.000	0.2479	08	150.000	0.2479

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.266	06	50.000	1.266	03	60.000	1.193	03	60.000	1.193
04	70.000	1.158	04	70.000	1.158	05	100.000	1.06	05	100.000	1.06
07	125.000	1.03	07	125.000	1.03	08	150.000	0.9847	08	150.000	0.9847

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood **Calibration Date:** 1/4/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700007 **Signal ID:** 1
Instrument ID: R-MS-12

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	9.4	≤20	0.5862	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	6.4	≤20	0.6874	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	9.6	≤20	0.3542	0.100
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	7.0	≤20	0.2169	0.200
Trichloroethene (TCE)	TRG	Average RF	% RSD	4.8	≤20	0.2582	0.200
Vinyl Chloride	TRG	Average RF	% RSD	8.6	≤20	0.4829	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	8.8	≤20	0.4372	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	9.0	≤20	0.4106	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	9.0	≤20	0.4322	
Dibromofluoromethane	SURR	Average RF	% RSD	7.2	≤20	0.2698	
Toluene-d8	SURR	Average RF	% RSD	9.7	≤20	1.115	

Client: Verina Consulting Group, LLC **Service Request:** R1702492
Project: Dover - Kirkwood **Calibration Date:** 1/4/2017

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700007 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1700007-10	ICV	I:\ACQUDATA\msvoa12\Data\010417\P7388.D	01/04/2017 19:51

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.1	5.862E-1	5.404E-1	-7.807	±30	Average RF
1,1,1-Trichloroethane (TCA)	50.0	46.1	5.862E-1	5.404E-1	-7.807	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	45.9	6.874E-1	6.315E-1	-8.134	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	45.9	6.874E-1	6.315E-1	-8.134	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.3	3.542E-1	3.211E-1	-9.338	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.3	3.542E-1	3.211E-1	-9.338	±30	Average RF
Tetrachloroethene (PCE)	50.0	46.3	2.169E-1	2.007E-1	-7.438	±30	Average RF
Tetrachloroethene (PCE)	50.0	46.3	2.169E-1	2.007E-1	-7.438	±30	Average RF
Trichloroethene (TCE)	50.0	50.6	2.582E-1	2.611E-1	1.13	±30	Average RF
Trichloroethene (TCE)	50.0	50.6	2.582E-1	2.611E-1	1.13	±30	Average RF
Vinyl Chloride	50.0	49.2	4.829E-1	4.752E-1	-1.601	±30	Average RF
Vinyl Chloride	50.0	49.2	4.829E-1	4.752E-1	-1.601	±30	Average RF
cis-1,2-Dichloroethene	50.0	44.9	4.372E-1	3.926E-1	-10.211	±30	Average RF
cis-1,2-Dichloroethene	50.0	44.9	4.372E-1	3.926E-1	-10.211	±30	Average RF
trans-1,2-Dichloroethene	50.0	44.7	4.106E-1	3.666E-1	-10.697	±30	Average RF
trans-1,2-Dichloroethene	50.0	44.7	4.106E-1	3.666E-1	-10.697	±30	Average RF
4-Bromofluorobenzene	50.0	57.3	4.322E-1	4.953E-1	14.59	±30	Average RF
4-Bromofluorobenzene	50.0	57.3	4.322E-1	4.953E-1	14.59	±30	Average RF
Dibromofluoromethane	50.0	54.8	2.698E-1	2.959E-1	9.66	±30	Average RF
Dibromofluoromethane	50.0	54.8	2.698E-1	2.959E-1	9.66	±30	Average RF
Toluene-d8	50.0	56.5	1.115E0	1.261E0	13.08	±30	Average RF
Toluene-d8	50.0	56.5	1.115E0	1.261E0	13.08	±30	Average RF

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002

Service Request: R1702492
Date Analyzed: 03/24/17 12:11

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\032417\P8659.D\

Calibration Date: 1/4/2017
Calibration ID: RC1700007
Analysis Lot: 539250
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.6	0.5862	0.5463	-6.8	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	47.8	0.6874	0.6571	-4.4	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	49.2	0.3542	0.3484	-1.6	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	44.1	0.2169	0.1915	-11.7	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.6	0.2582	0.2508	-2.9	NA	±20	Average RF
Vinyl Chloride	50.0	43.8	0.4829	0.4226	-12.5	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.4	0.4372	0.4234	-3.2	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	47.6	0.4106	0.391	-4.8	NA	±20	Average RF
4-Bromofluorobenzene	50.0	52.9	0.4322	0.4576	5.9	NA	±20	Average RF
Dibromofluoromethane	50.0	54.5	0.2698	0.2942	9.0	NA	±20	Average RF
Toluene-d8	50.0	55.8	1.1155	1.2451	11.6	NA	±20	Average RF

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002

Service Request: R1702492
Date Analyzed: 03/25/17 00:13

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\032417\P8683.D\

Calibration Date: 1/4/2017
Calibration ID: RC1700007
Analysis Lot: 539313
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.4	0.5862	0.5671	-3.3	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.5	0.6874	0.6805	-1.0	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.8	0.3542	0.3669	3.6	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	45.2	0.2169	0.1958	-9.7	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.6	0.2582	0.2664	3.2	NA	±20	Average RF
Vinyl Chloride	50.0	46.2	0.4829	0.446	-7.6	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	50.4	0.4372	0.4402	0.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	48.4	0.4106	0.397	-3.3	NA	±20	Average RF
4-Bromofluorobenzene	50.0	52.6	0.4322	0.4544	5.1	NA	±20	Average RF
Dibromofluoromethane	50.0	55.2	0.2698	0.298	10.4	NA	±20	Average RF
Toluene-d8	50.0	54.8	1.1155	1.2219	9.5	NA	±20	Average RF

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002

Service Request: R1702492
Date Analyzed: 03/27/17 10:51

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\032717\P8704.D\

Calibration Date: 1/4/2017
Calibration ID: RC1700007
Analysis Lot: 539480
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.6	0.5862	0.5695	-2.8	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.1	0.6874	0.6746	-1.9	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	50.5	0.3542	0.3576	1.0	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	45.0	0.2169	0.1951	-10.1	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.9	0.2582	0.2522	-2.3	NA	±20	Average RF
Vinyl Chloride	50.0	46.3	0.4829	0.4469	-7.5	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	49.6	0.4372	0.4333	-0.9	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	47.8	0.4106	0.3928	-4.3	NA	±20	Average RF
4-Bromofluorobenzene	50.0	53.8	0.4322	0.4649	7.6	NA	±20	Average RF
Dibromofluoromethane	50.0	54.3	0.2698	0.2929	8.6	NA	±20	Average RF
Toluene-d8	50.0	55.4	1.1155	1.2351	10.7	NA	±20	Average RF

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**539250
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\032317\P8650.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	03:32:00	
I:\ACQUDATA\msvoa12\Data\032417\P8658.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	11:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8659.D\	Continuing Calibration Verification	RQ1702468-02	3/24/2017	12:11:00	
I:\ACQUDATA\msvoa12\Data\032417\P8660.D\	Lab Control Sample	RQ1702468-03	3/24/2017	12:41:00	
I:\ACQUDATA\msvoa12\Data\032417\P8662.D\	Method Blank	RQ1702468-04	3/24/2017	13:41:00	
I:\ACQUDATA\msvoa12\Data\032417\P8663.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	14:11:00	
I:\ACQUDATA\msvoa12\Data\032417\P8664.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	14:41:00	
I:\ACQUDATA\msvoa12\Data\032417\P8665.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	15:11:00	
I:\ACQUDATA\msvoa12\Data\032417\P8666.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	15:41:00	
I:\ACQUDATA\msvoa12\Data\032417\P8667.D\	IJ-4	R1702492-003	3/24/2017	16:10:00	
I:\ACQUDATA\msvoa12\Data\032417\P8668.D\	MP-5	R1702492-002	3/24/2017	16:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8669.D\	MW-7A	R1702492-004	3/24/2017	17:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8670.D\	MW-16	R1702492-006	3/24/2017	17:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8671.D\	MP-12	R1702492-001	3/24/2017	18:12:00	
I:\ACQUDATA\msvoa12\Data\032417\P8672.D\	MW-28	R1702492-013	3/24/2017	18:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8673.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	19:12:00	
I:\ACQUDATA\msvoa12\Data\032417\P8674.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	19:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8675.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	20:12:00	
I:\ACQUDATA\msvoa12\Data\032417\P8676.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	20:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8677.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	21:12:00	
I:\ACQUDATA\msvoa12\Data\032417\P8678.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	21:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8679.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	22:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8680.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	22:43:00	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**539250
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\032417\P8682.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	23:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8687.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	02:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8688.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	02:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8689.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	03:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8690.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	03:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8691.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	04:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8692.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	04:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8698.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	07:41:00	
I:\ACQUDATA\msvoa12\Data\032417\P8699.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	08:11:00	
I:\ACQUDATA\msvoa12\Data\032717\P8703.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	10:21:00	
I:\ACQUDATA\msvoa12\Data\032717\P8712.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	14:53:00	
I:\ACQUDATA\msvoa12\Data\032717\P8713.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	15:23:00	
I:\ACQUDATA\msvoa12\Data\032717\P8714.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	15:53:00	
I:\ACQUDATA\msvoa12\Data\032717\P8715.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	16:23:00	
I:\ACQUDATA\msvoa12\Data\032717\P8716.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	16:53:00	
I:\ACQUDATA\msvoa12\Data\032717\P8717.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	17:23:00	
I:\ACQUDATA\msvoa12\Data\032717\P8718.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	17:54:00	
I:\ACQUDATA\msvoa12\Data\032717\P8719.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	18:24:00	
I:\ACQUDATA\msvoa12\Data\032717\P8720.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	18:54:00	
I:\ACQUDATA\msvoa12\Data\032717\P8721.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	19:24:00	
I:\ACQUDATA\msvoa12\Data\032717\P8722.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	19:54:00	
I:\ACQUDATA\msvoa12\Data\032717\P8723.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	20:24:00	
I:\ACQUDATA\msvoa12\Data\032717\P8724.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	20:54:00	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**539250
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\032717 \P8725.D\	ZZZZZZZ	ZZZZZZZ	3/27/2017	21:24:00	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**539313
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\032417\P8683.D\	Continuing Calibration Verification	RQ1702477-02	3/25/2017	00:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8684.D\	Lab Control Sample	RQ1702477-03	3/25/2017	00:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8686.D\	Method Blank	RQ1702477-04	3/25/2017	01:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8694.D\	MP-4	R1702492-011	3/25/2017	05:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8696.D\	DUP-032117-02	R1702492-015	3/25/2017	06:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8697.D\	IJ-10	R1702492-010	3/25/2017	07:12:00	

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**539480
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\032417\P8694.D\	MP-4	R1702492-011	3/25/2017	05:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8696.D\	DUP-032117-02	R1702492-015	3/25/2017	06:42:00	
I:\ACQUDATA\msvoa12\Data\032717\P8704.D\	Continuing Calibration Verification	RQ1702521-02	3/27/2017	10:51:00	
I:\ACQUDATA\msvoa12\Data\032717\P8705.D\	Lab Control Sample	RQ1702521-03	3/27/2017	11:22:00	
I:\ACQUDATA\msvoa12\Data\032717\P8707.D\	Method Blank	RQ1702521-04	3/27/2017	12:22:00	
I:\ACQUDATA\msvoa12\Data\032717\P8708.D\	DUP-032117	R1702492-014	3/27/2017	12:53:00	
I:\ACQUDATA\msvoa12\Data\032717\P8709.D\	MP-6S	R1702492-008	3/27/2017	13:23:00	
I:\ACQUDATA\msvoa12\Data\032717\P8710.D\	MP-4	R1702492-011	3/27/2017	13:53:00	
I:\ACQUDATA\msvoa12\Data\032717\P8711.D\	DUP-032117-02	R1702492-015	3/27/2017	14:23:00	

Analysis: 8260 Waters | Analyst: KQuest | pH strips: 223016 | Tune Method: W010417

Date: 3/24/17 | Balance ID: R-07 | ResCl strips: N/A | Run Method: ↓

Instr. 12 | 50 mL Class A used for dilution FV | Syringes: 177417 | LIMS Run#: 539250

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	Spent ccv (dest)		(new trap)					P8656		
2	↓		(mtune)					P8657		
3	DUPE		RQ1702468-01					P8658	YT	(auto) 11:42
4	CCV		02					P8659	YC	
5	LCS		03					P8660	YQ	
6	VBLK		—					P8661	(Y)	not c/o
7	↓		↓ 04					P8662	YB	
8	R1702494-004	1.0		7979	4	1	6	P8663	Y	
9	007	1.0				1	6	P8664	Y	
10	009	1.0				1	6	P8665	Y	
11	↓ 010	1.0				1	<2	P8666	Y	
12	R1702492-003	10	5/50mls			1	—	P8667	Y	*dil. for matrix - dark purple
13	002	2.5	20/50mls			1	8	P8668	Y	*Foamy
14	004	5.0	10/50 mls			1	8	P8669	Y	*Foamy
15	006	1.0				1	7	P8670	Y	
16	001	1.0				1+2	6	P8671	Y	*sediment
17	↓ 013	1.0				1	8	P8672	Y	
18	R1702494-001	1.0				1	8	P8673	Y	
19	002	1.0				1	7	P8674	Y	
20	005	1.0				1	7	P8675	Y	
21	006	1.0				1	7	P8676	Y	
22	008	1.0				1	7	P8677	Y	
23	003	1.0				1	<2	P8678	Y	
24	MS 003	1.0	RQ1702468-05			2	<2	P8679	YQ	
25	↓ MSD 003	1.0	↓ 06	↓	↓	3	<2	P8680	YQ	22:43 ✓
26	BLK						—	P8681	—	

EOD KR 3/24/17

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Combined IS/Surr 500 : 1500099

Surrogate :

Internal Std :

Reagents:

500 Primary Occ+ : 1500103

Primary Fr+ : 1500031 — 5ml → 50mls = ccv

Primary HSL : 179914

Primary TO : 1500130

Primary :

300 Secondary Occ+ : 179949 - 5ml

500 Secondary Fr+ : 1500100

Secondary TO : 179975 — 2ml

Secondary HSL : 179563

Secondary :

50mls = LCS

-10.6mL | 4.2mL

4.2ml vial = MS LD

Analysis: 8260 Waters | Analyst: KRuest | pH strips: 223016 | Tune Method: W010417

Date: 3/27/17 | Balance ID: R-07 | ResCl strips: N/A | Run Method: ↓

Instr. 12 | 50 mL Class A used for dilution FV | Syringes: 177417 | LIMS Run#: 5394480

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							P6701		
2	↓							P6702		
3	TUNE		RQ1702521-01					P6703	YT	(auto) 10:21
4	CCV		02					P6704	YC	
5	LCS		03					P6705	YQ	
6	MBLK							P6706	(N)	ND+YQ
7	↓		↓ 04					P6707	YB	
8	R1702492-014	1.0		7979	4	2	(Y)	P6708	Y	
9	005	2.0	25/50mls			2	(Y)	P6709	Y	
10	011	20	2.5/50mls			2	(Y)	P6710	(Y)	DL
11	↓ 015	20	↓	↓	↓	2	(Y)	P6711	(Y)	DL
12	R1701810-002	1.0		9866	2	1	LL	P6712	Y	
13	R1702312-013	10	5/50mls (DOD)	15614	2	2	LL	P6713	Y	FOAMY
14	014	10				2	LL	P6714	Y	
15	017	10				2	LL	P6715	Y	
16	018	10				(2)	LL	P6716	Y	
17	↓ 022	10	↓	↓	↓	(2)	LL	P6717	Y	↓
18	R1701640-020	5.0	10/50mls	9866	2	2	LL	P6718	(Y)	DL
19	027	5.0	↓			2	LL	P6719	Y	
20	026	25	2.5/50mls			2	LL	P6720	Y	
21	013	50	1/50mls			2	LL	P6721	Y	
22	029	10	5/50mls			1	LL	P6722	Y	
23	MS 029	10	RQ1702521-05			1	LL	P6723	YQ	
24	↓ MSD 029	10	↓ 06	↓	↓	1	LL	P6724	YQ	
25	CCV (DOD only)		↓ 07			—		P6725	YC	21:24 ✓
26	BLK					—		P6726	—	

CCV ICRS 3/29/17

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Combined IS/Surr 500 : 1800199

Surrogate :

Internal Std :

Reagents:

500 Primary OCC+ : 1800103

Primary R+ : 1800081 — 5ml → 50mls

Primary HSL : 179914 = CCV

Primary TO : 1800180

Primary :

200 Secondary R+ : 1800100 - 5ml

500 Secondary OCC+ : 179949

Secondary TO : 179975 — 2ml

Secondary HSL : 1800135

Secondary :

50mls = LCS

-10.6mL

4.2mL

4ml vial = ms ID

Analysis: 8260 Waters | Analyst: KQuest | pH strips: 223016 | Tune Method: W010417

Date: 3/24/17 - Run#2 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. 12 | 50 mL Class A used for dilution FV | Syringes: 177417 | LIMS Run#: 539313

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
27	TUNE		RQ1702477-01					P86082	Y	whole peak (-1624) 23:43
28	CCV		02					P86083	Y	
29	LCS		03					P86084	Y	
30	VBLK		—					P86085	N	rpt 1.0
31	↓		↓ 04					P86086	Y	
32	RQ1702492-009	1.0		7979	4	1	<2	P86087	Y	
33	016	1.0				1	(5)	P86088	Y	
34	017	1.0				1	<2	P86089	Y	
35	005	1.0				1	<2	P86090	Y	
36	007	1.0				1	<2	P86091	Y	
37	012	1.0				1	<2	P86092	Y	
38	008	2.5	20/50mls			1	(7)	P86093	N	weak rpt 2.0
39	011	10	5/50mls			1	(7)	P86094	Y	rpt 20
40	014	10				1	(7)	P86095	N	rpt 1.0
41	015	10				1	(7)	P86096	Y	rpt 20
42	010	10	↓			1	—	P86097	Y	*dil for matrix - dark purple
43	MS 005	1.0	RQ1702477-05			2	<2	P86098	YQ	
44	↓ MSD 005	1.0	↓ 06	↓	↓	3	<2	P86099	YQ	8:11 ✓
45	BLK					—	—	P86100	—	

EOD
KR 3/25/17

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Combined IS/Surr 500 : 180099

500 Primary Acct : 180103
Primary Frt : 180031 — 5ml → 50mls
Primary HSL : 179914 = CCV
Primary TB : 180030
Primary :

200 Secondary Acct : 179949 - 5ml
500 Secondary Frt : 180100
Secondary TB : 179975 — 2ml
Secondary HSL : 179563 → 50mls = LCS
Secondary :

-10.6mL
Surrogate :
Internal Std :
Reagents:
/4.2mL
42mL vial = MS/D

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 15:40
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R1702492-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	03/25/17 03:43	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	03/25/17 03:43	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	03/25/17 03:43	
Tetrachloroethene (PCE)	**4.0**		1.0	0.30	1	03/25/17 03:43	
Trichloroethene (TCE)	**2.6**		1.0	0.22	1	03/25/17 03:43	
Vinyl Chloride	1.0	U	1.0	0.32	1	03/25/17 03:43	
cis-1,2-Dichloroethene	**0.74**	**J**	1.0	0.30	1	03/25/17 03:43	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	03/25/17 03:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	03/25/17 03:43	
Dibromofluoromethane	110	89 - 119	03/25/17 03:43	
Toluene-d8	111	87 - 121	03/25/17 03:43	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 09:40
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R1702492-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 04:13	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 04:13	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 04:13	
Tetrachloroethene (PCE)	**15**	1.0	0.30	1	03/25/17 04:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 04:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 04:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 04:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 04:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	03/25/17 04:13	
Dibromofluoromethane	109	89 - 119	03/25/17 04:13	
Toluene-d8	112	87 - 121	03/25/17 04:13	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/20/17 12:00
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	FB-032017	**Units:**	ug/L
Lab Code:	R1702492-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 02:13	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 02:13	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 02:13	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/25/17 02:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 02:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 02:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 02:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 02:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/25/17 02:13	
Dibromofluoromethane	107	89 - 119	03/25/17 02:13	
Toluene-d8	106	87 - 121	03/25/17 02:13	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17 13:10
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	MW-25	**Units:**	ug/L
Lab Code:	R1702492-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 04:43	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 04:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 04:43	
Tetrachloroethene (PCE)	**99**	1.0	0.30	1	03/25/17 04:43	
Trichloroethene (TCE)	**2.2**	1.0	0.22	1	03/25/17 04:43	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 04:43	
cis-1,2-Dichloroethene	**1.5**	1.0	0.30	1	03/25/17 04:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 04:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	03/25/17 04:43	
Dibromofluoromethane	110	89 - 119	03/25/17 04:43	
Toluene-d8	111	87 - 121	03/25/17 04:43	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1702492
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	03/21/17
Sample Matrix:	Water	**Date Received:**	03/23/17 09:15
Sample Name:	Trip Blank 2	**Units:**	ug/L
Lab Code:	R1702492-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	03/25/17 03:13	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/17 03:13	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	03/25/17 03:13	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	03/25/17 03:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	03/25/17 03:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/25/17 03:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/25/17 03:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/25/17 03:13	

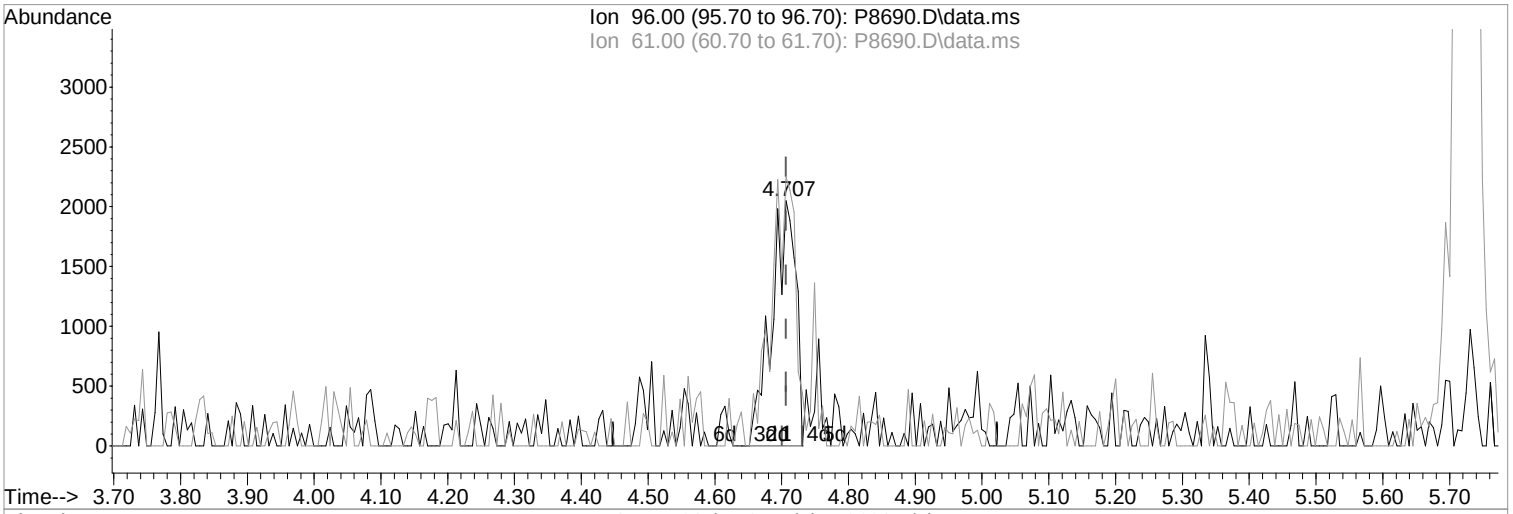
Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	03/25/17 03:13	
Dibromofluoromethane	109	89 - 119	03/25/17 03:13	
Toluene-d8	110	87 - 121	03/25/17 03:13	

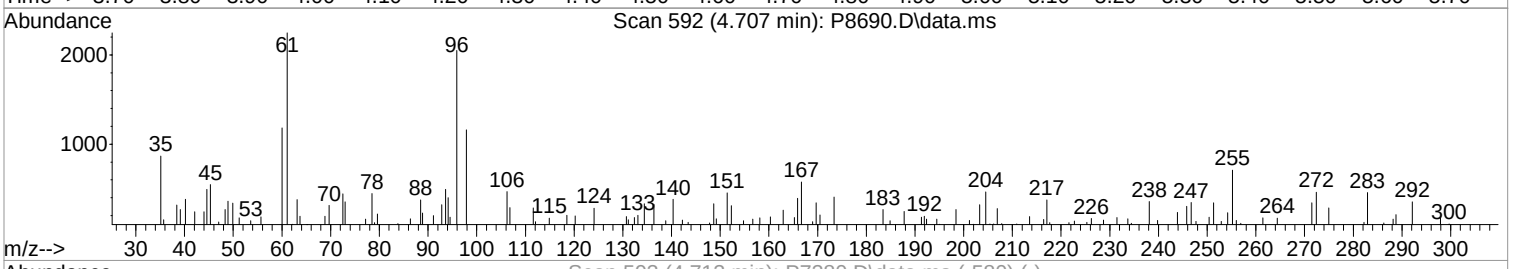
1st 03/27/17
2nd 03/28/17

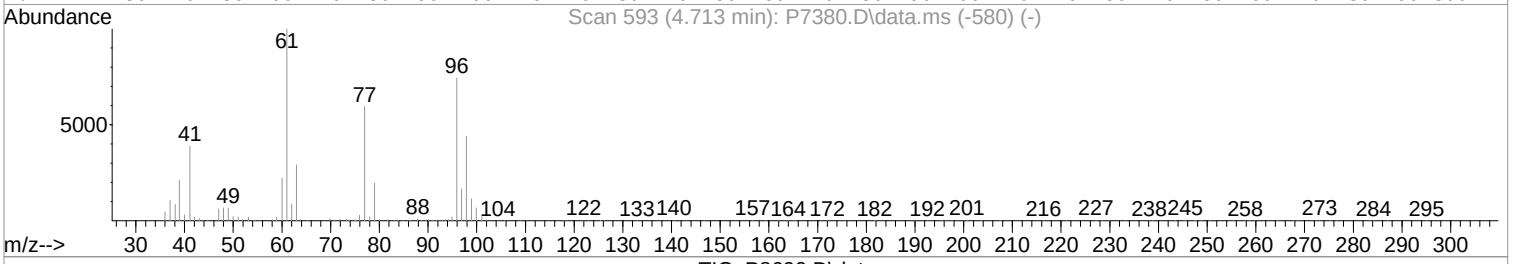
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 09:35:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8690.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.707min (+0.000) 0.74 ppb m

response 5114

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	109.66#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

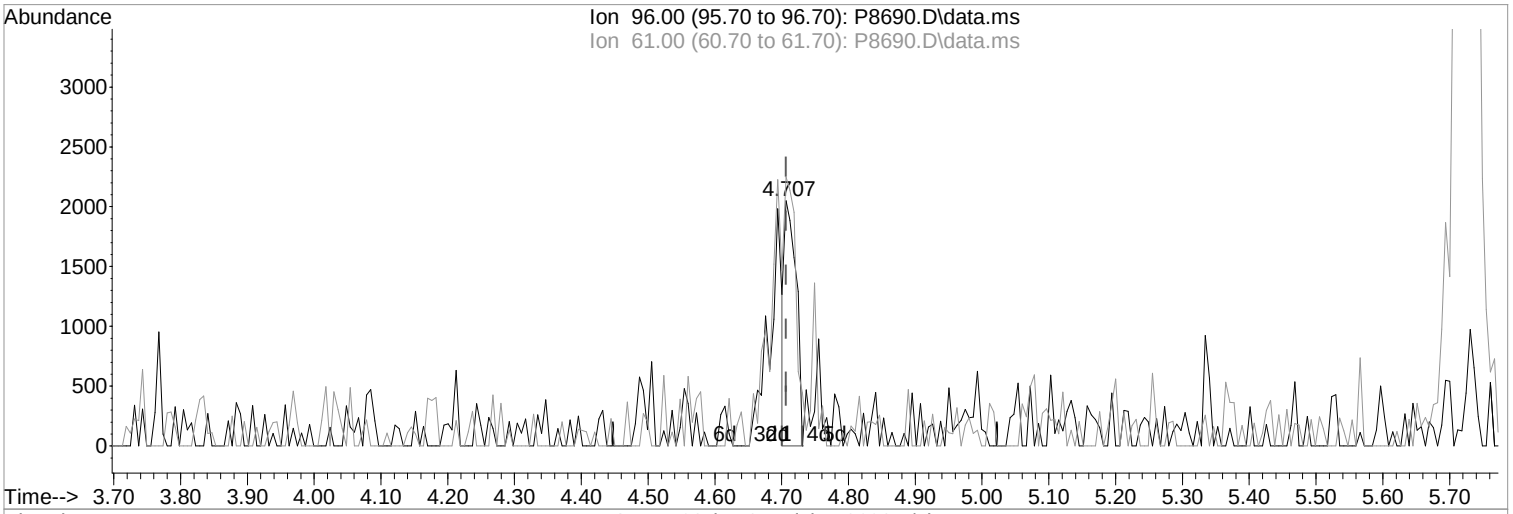
Split Peak

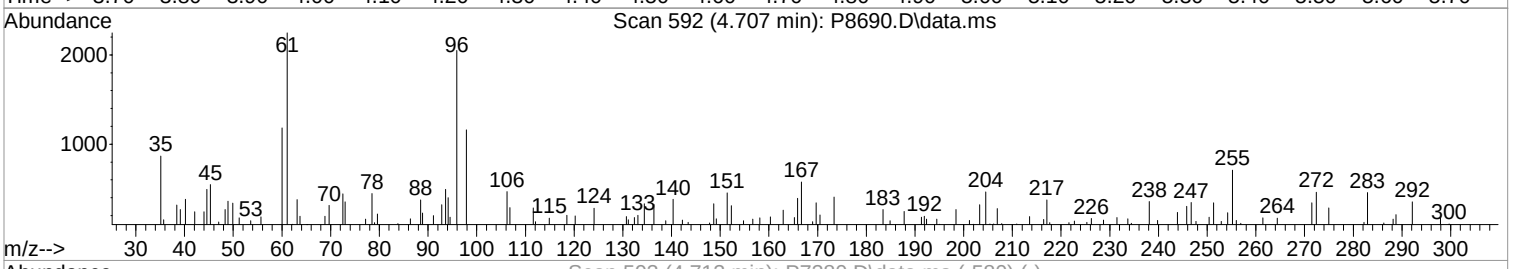
03/27/17

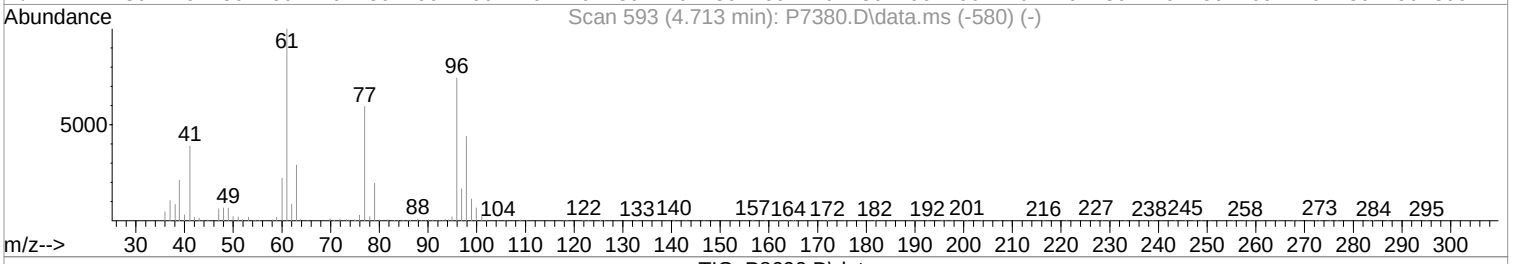
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 09:35:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8690.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.707min (+0.000) 0.36 ppb

response 2487

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	109.66#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

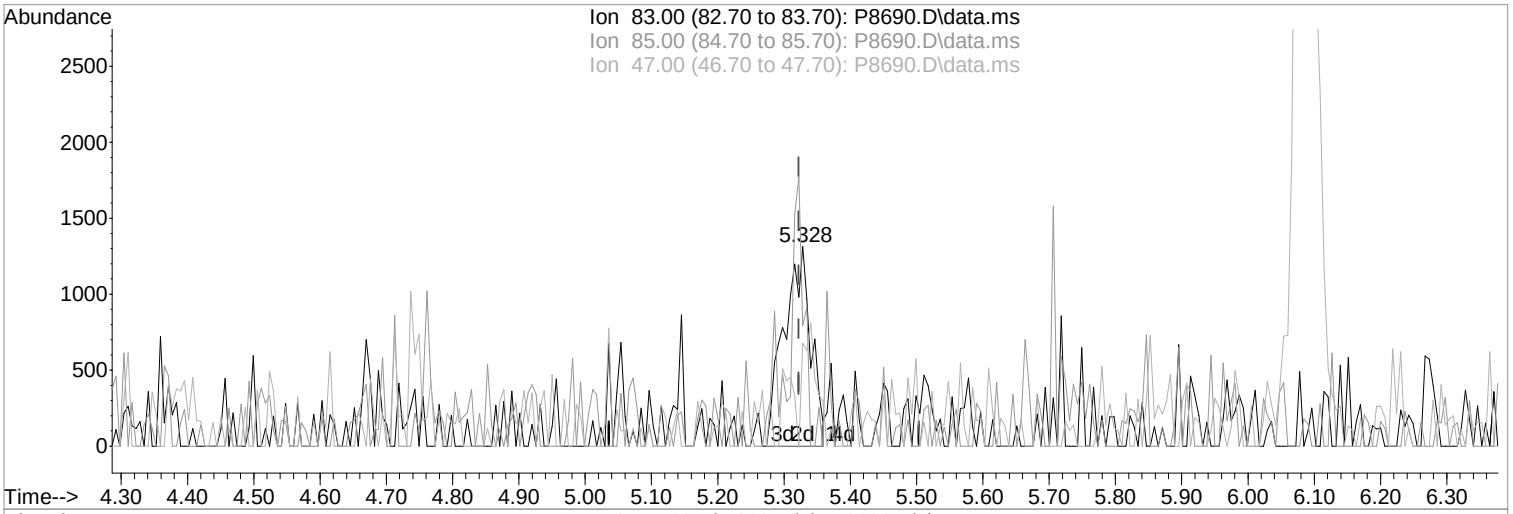
03/27/17

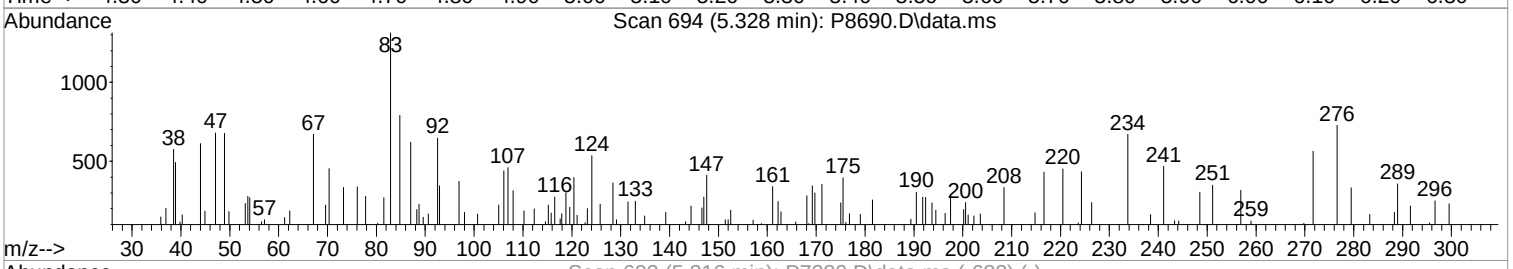
1st 03/27/17
2nd 03/28/17

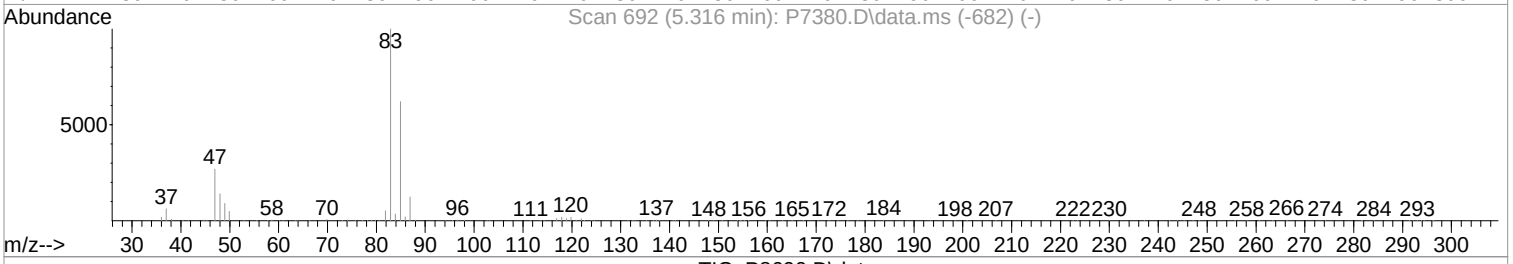
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 09:35:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8690.D\data.ms

(40) Chloroform (P)

5.328min (+0.006) 0.35 ppb m

response 3693

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	60.20
47.00	26.90	51.60#
0.00	0.00	0.00

Manual Integration:

After

Split Peak

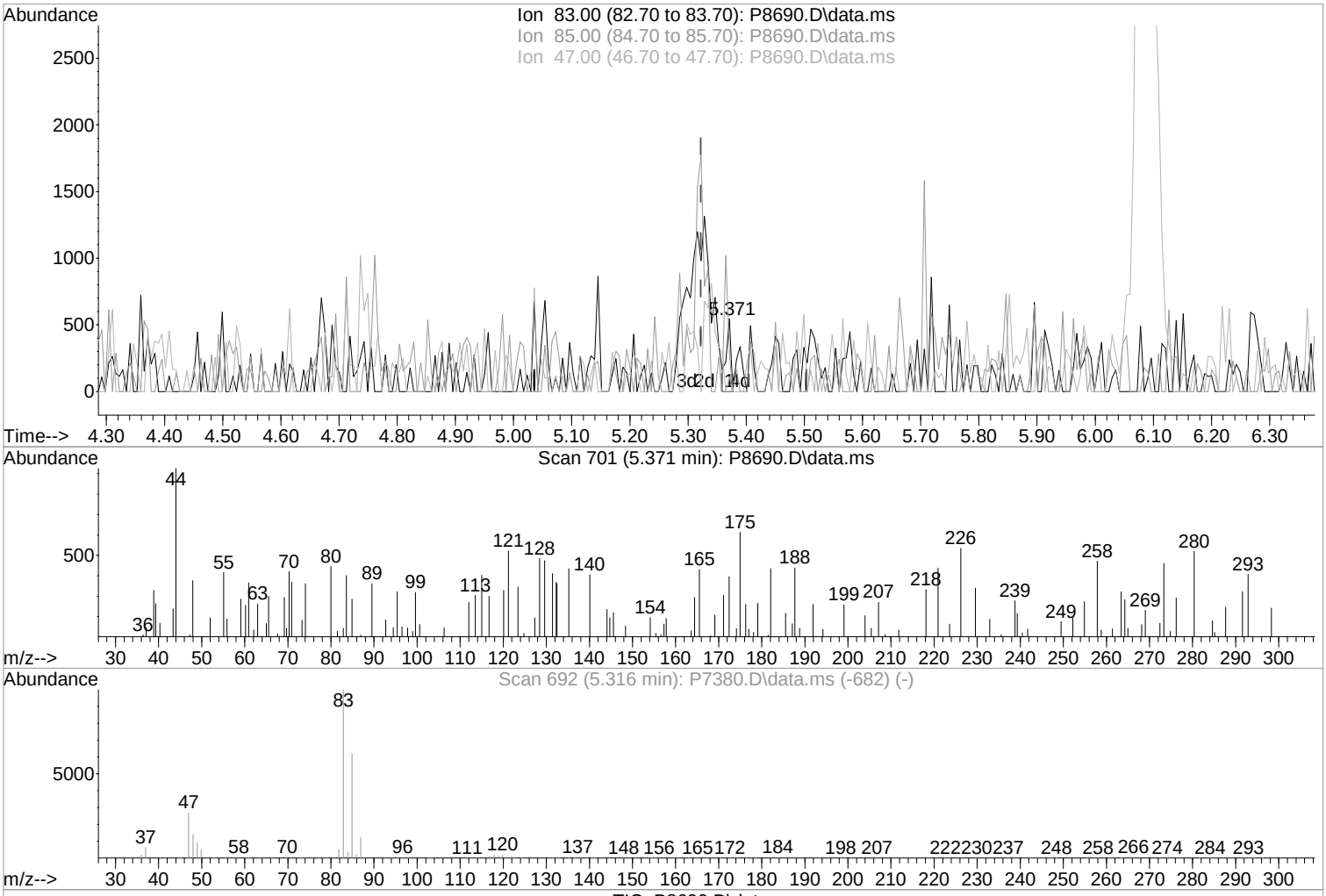
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 09:35:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8690.D\data.ms

(40) Chloroform (P)

5.371min (+0.049) 0.03 ppb

response 280

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	52.57
47.00	26.90	20.22
0.00	0.00	0.00

Manual Integration:

Before

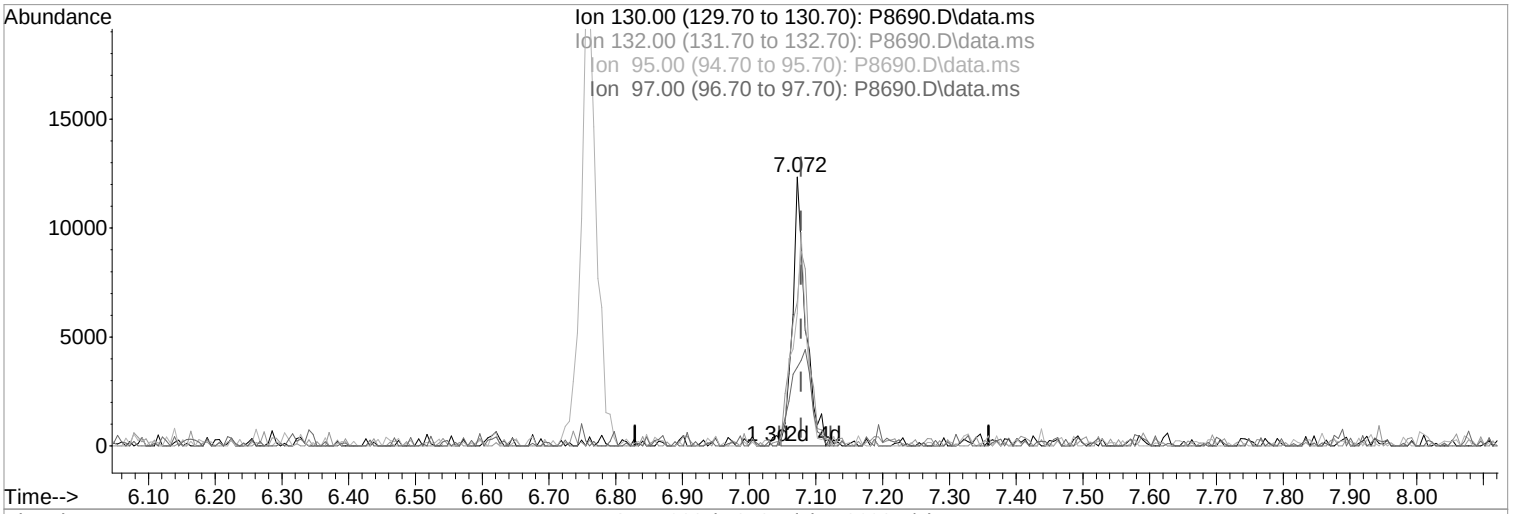
03/27/17

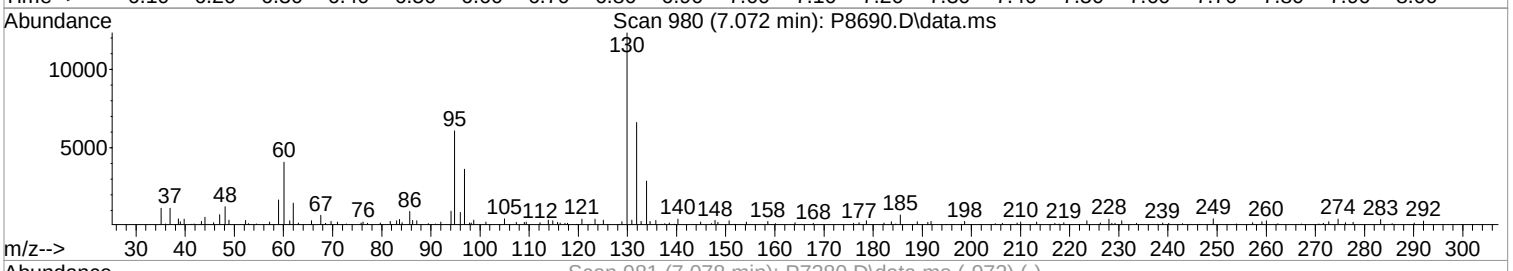
1st 03/27/17
2nd 03/28/17

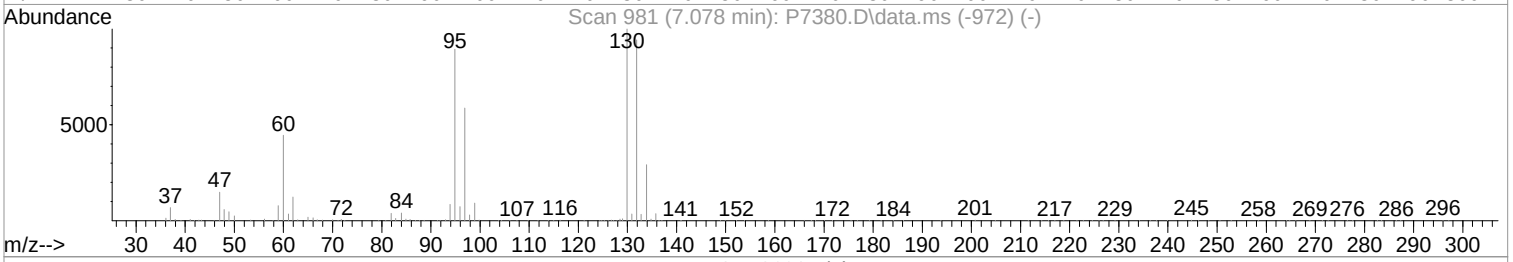
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 09:35:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8690.D\data.ms

(54) Trichloroethene (P)

7.072min (-0.006) 2.59 ppb m

response 16945

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	53.57#
95.00	89.40	49.27#
97.00	58.80	29.37#

Manual Integration:

After

Peak not found.

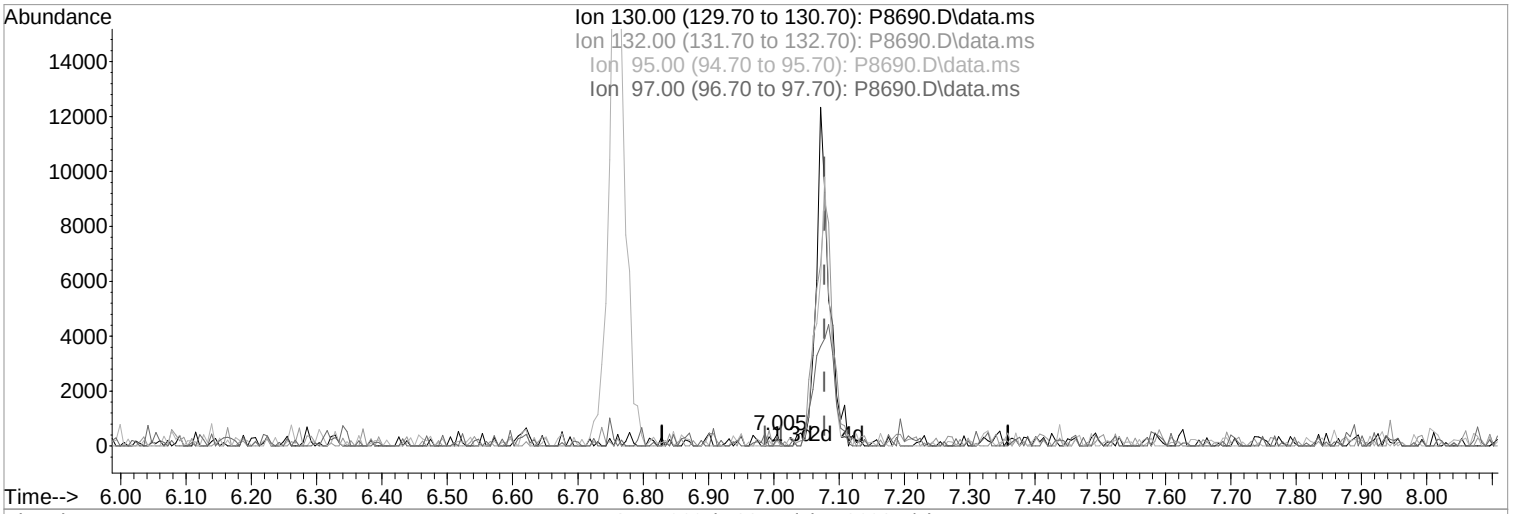
03/27/17

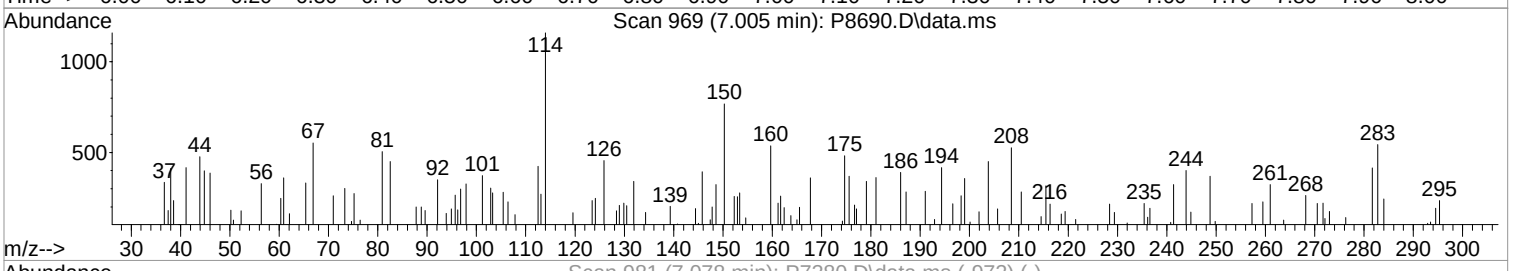
1st 03/27/17
2nd 03/28/17

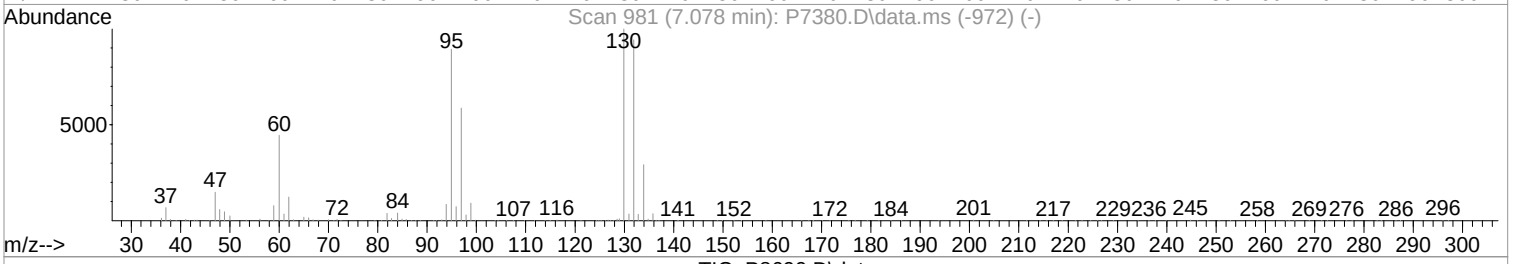
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 09:35:50 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8690.D\data.ms

(54) Trichloroethene (P)

7.005min (-0.073) 0.05 ppb

response 339

Ion	Exp%	Act%
130.00	100	100
132.00	94.20	79.67
95.00	89.40	105.84
97.00	58.80	69.63

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 12:23:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

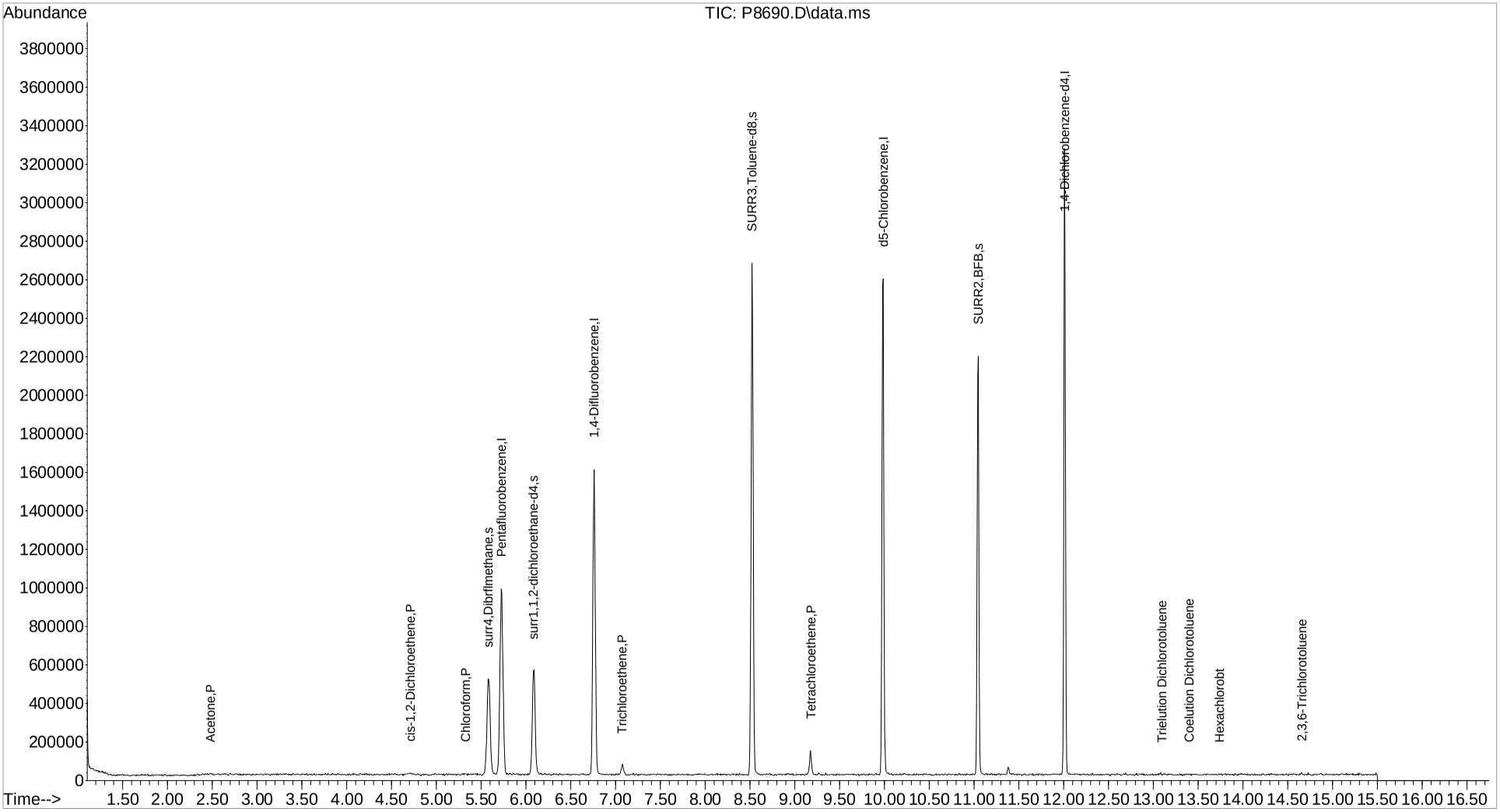
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.725	168	790256	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1267855	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1193807	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	588525	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.578	113	376755	55.07	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.14%				
48) surr1,1,2-dichloroetha...	6.084	65	441924	58.18	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 116.36%				
65) SURR3,Toluene-d8	8.523	98	1573578	55.63	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.26%				
70) SURR2,BFB	11.047	95	565784	51.62	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.24%				
Target Compounds							Qvalue
15) Acetone	2.475	43	3359	2.89	ppb		72
34) cis-1,2-Dichloroethene	4.707	96	5114m	0.74	ppb		
40) Chloroform	5.328	83	3693m	0.35	ppb		
54) Trichloroethene	7.072	130	16945m	2.59	ppb		
72) Tetrachloroethene	9.175	164	20459	3.95	ppb	#	86
112) Trielution Dichlorotol...	13.095	125	2069	0.21	ppb	#	43
114) Coelution Dichlorotoluene	13.394	125	2211	0.20	ppb	#	50
116) Hexachlorobt	13.735	225	1404	0.40	ppb	#	27
120) 2,3,6-Trichlorotoluene	14.656	159	1515	0.37	ppb	#	71

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

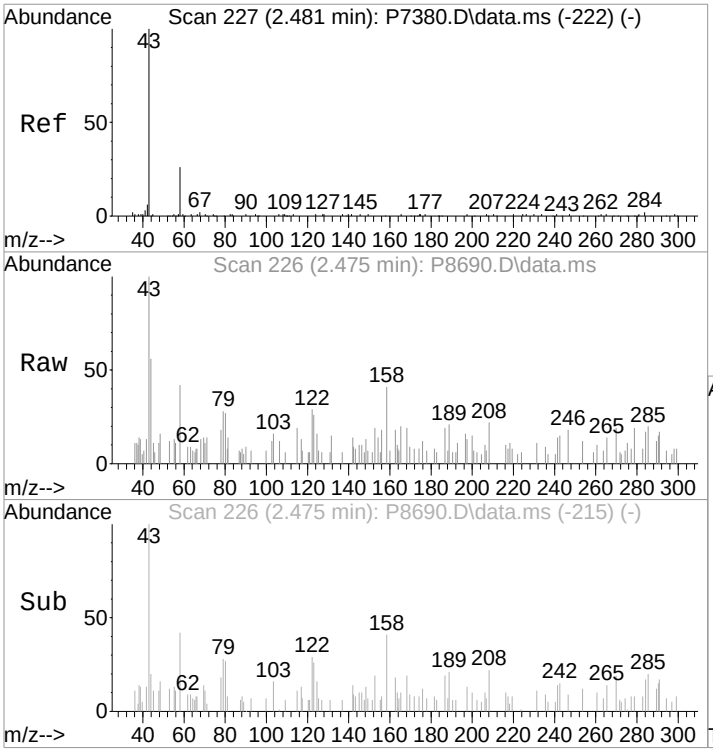
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8690.D
Acq On : 25 Mar 2017 3:43 am
Operator : K.Ruest
Sample : R1702492-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 27 12:23:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



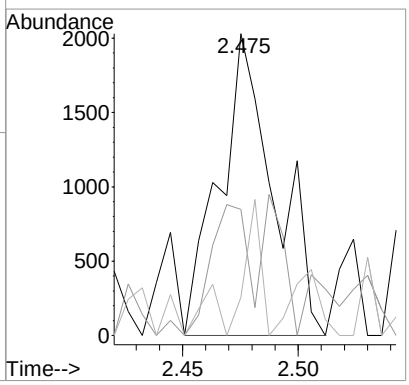
1st 03/27/17
2nd 03/28/17

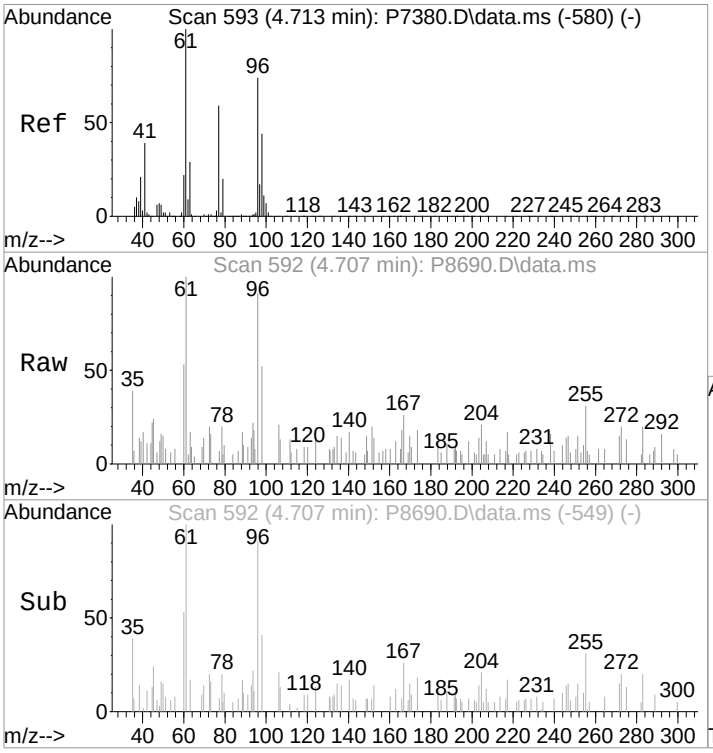


#15
Acetone
Concen: 2.89 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion: 43 Resp: 3359

Ion	Ratio	Lower	Upper
43	100		
58	41.8	6.2	46.2
42	12.7	0.0	26.9

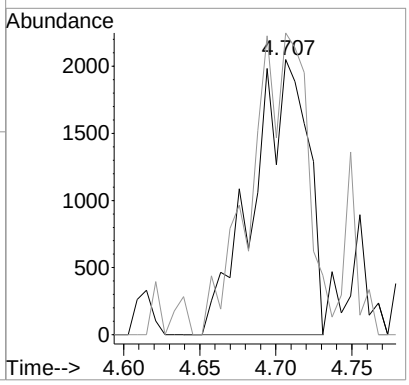


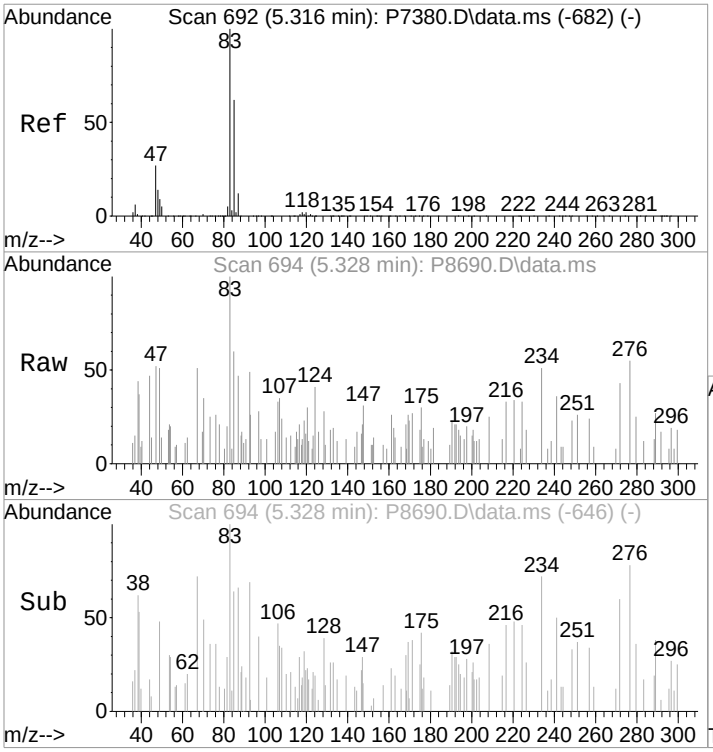


#34
cis-1,2-Dichloroethene
Concen: 0.74 ppb m
RT: 4.707 min Scan# 592
Delta R.T. 0.000 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion: 96 Resp: 5114

Ion	Ratio	Lower	Upper
96	100		
61	109.7	114.8	154.8#

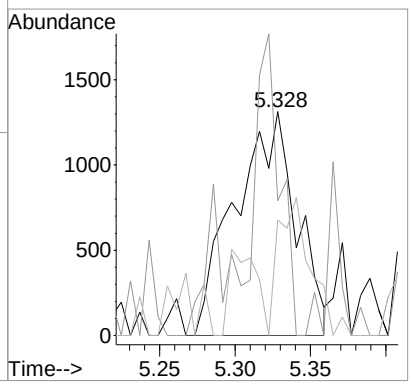


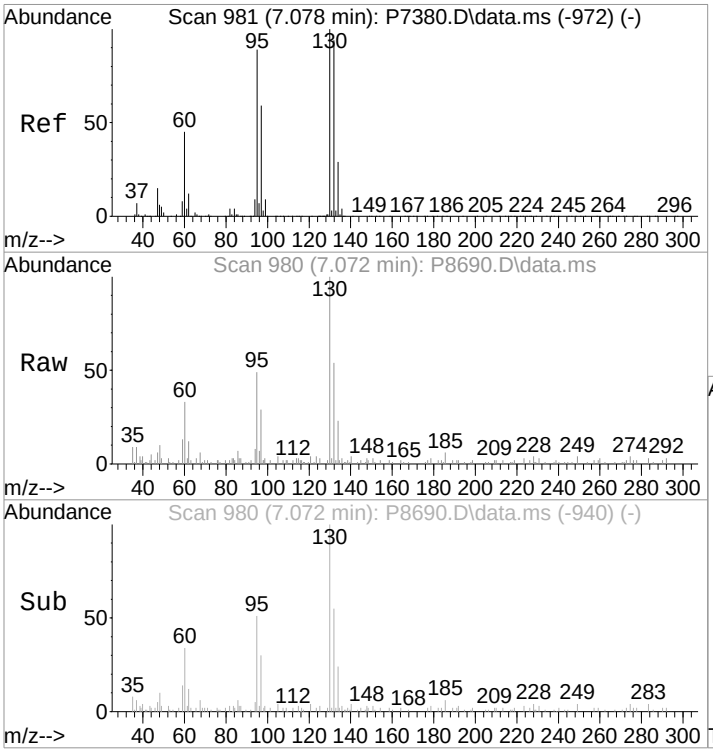


#40
Chloroform
Concen: 0.35 ppb m
RT: 5.328 min Scan# 694
Delta R.T. 0.006 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion: 83 Resp: 3693

Ion	Ratio	Lower	Upper
83	100		
85	60.2	42.3	82.3
47	51.6	6.9	46.9#

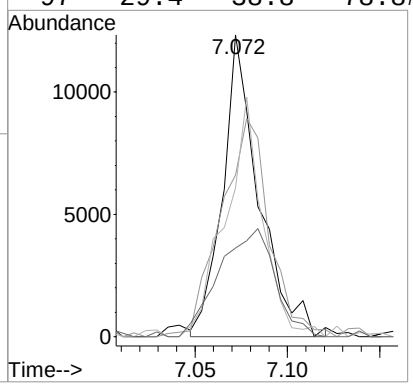


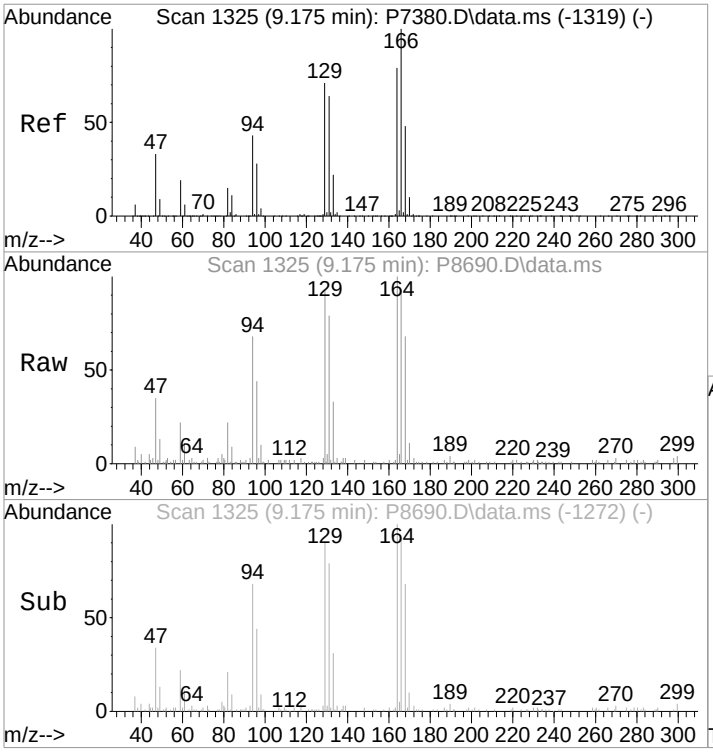


#54
Trichloroethene
Concen: 2.59 ppb m
RT: 7.072 min Scan# 980
Delta R.T. -0.006 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion:130 Resp: 16945

Ion	Ratio	Lower	Upper
130	100		
132	53.6	74.2	114.2#
95	49.3	69.4	109.4#
97	29.4	38.8	78.8#

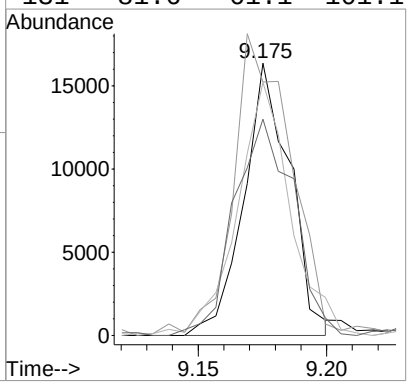


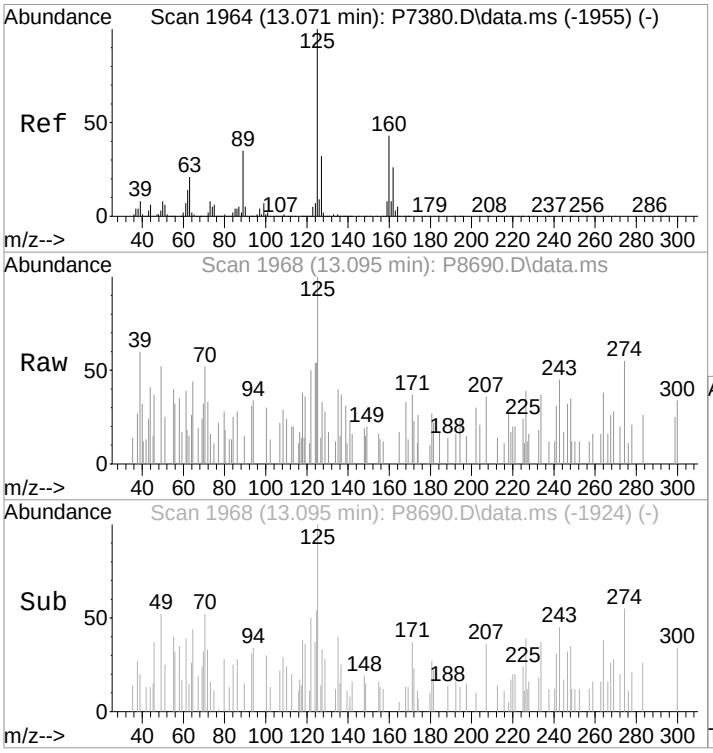


#72
Tetrachloroethene
Concen: 3.95 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion:164 Resp: 20459

Ion	Ratio	Lower	Upper
164	100		
166	93.1	106.8	146.8#
129	92.9	69.7	109.7
131	81.6	61.1	101.1

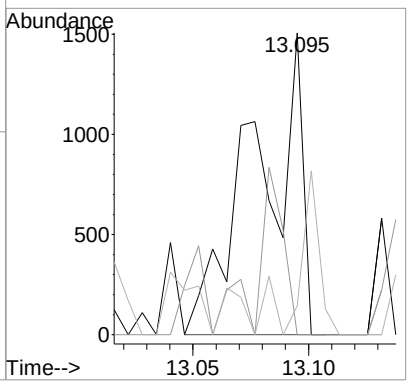


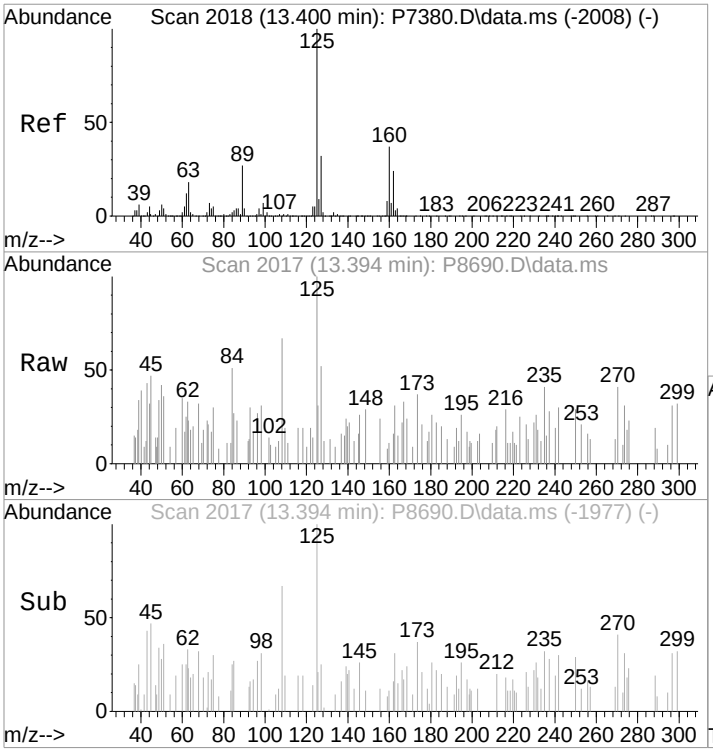


#112
Trielution Dichlorotoluene
Concen: 0.21 ppb
RT: 13.095 min Scan# 1968
Delta R.T. 0.018 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion:125 Resp: 2069

Ion	Ratio	Lower	Upper
125	100		
160	0.0	34.6	51.8#
89	9.6	28.0	42.0#

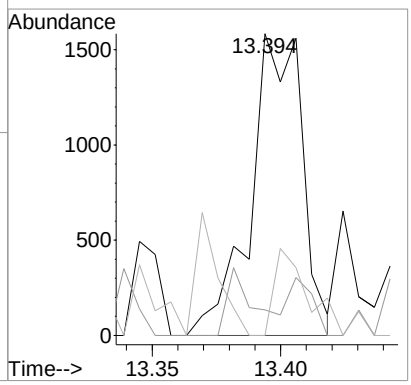


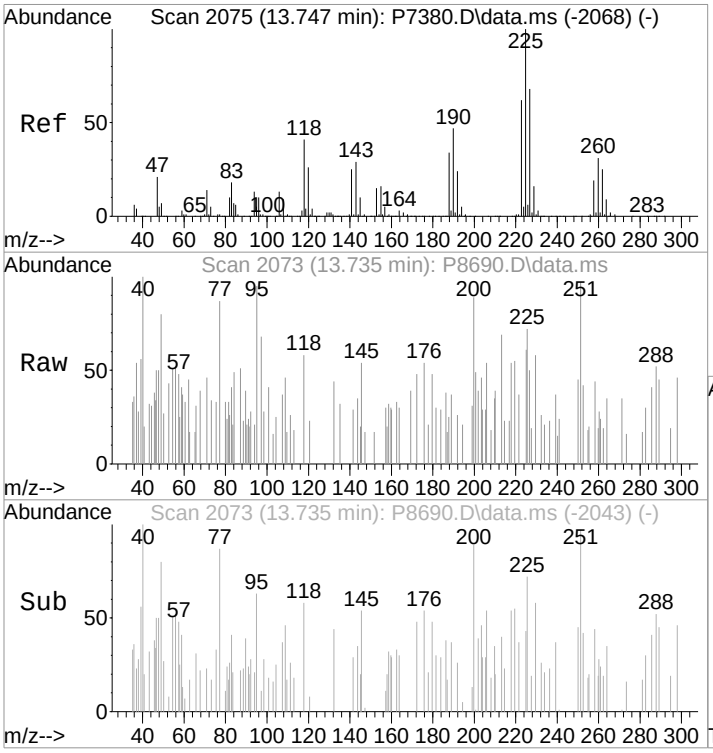


#114
Coelution Dichlorotoluene
Concen: 0.20 ppb
RT: 13.394 min Scan# 2017
Delta R.T. -0.006 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion:125 Resp: 2211

Ion	Ratio	Lower	Upper
125	100		
160	8.5	29.8	44.6#
89	0.0	21.7	32.5#

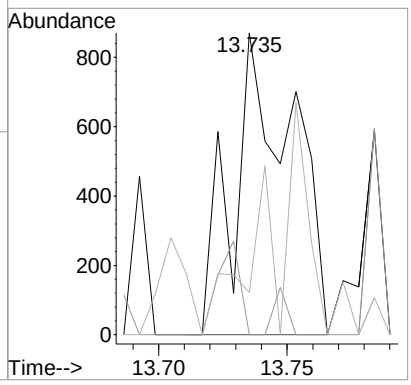


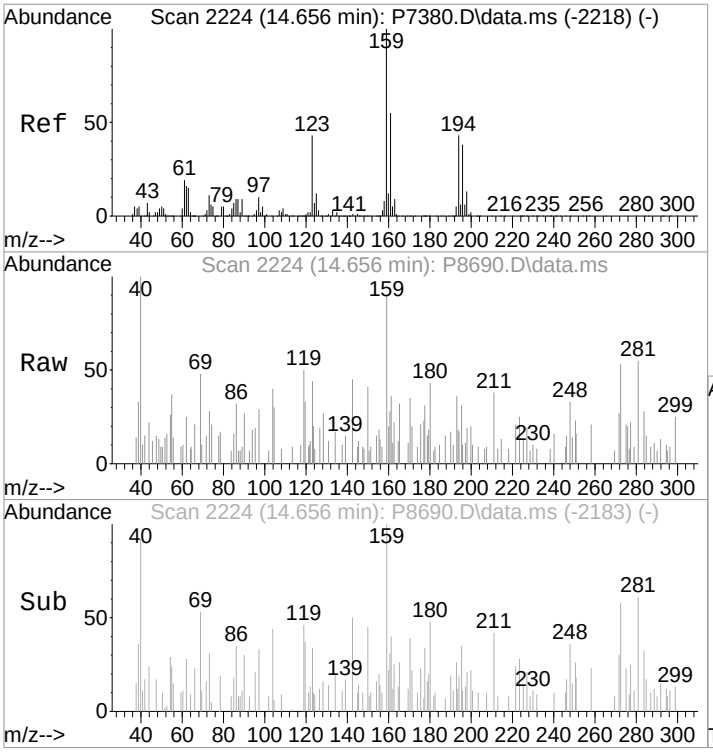


#116
Hexachlorobt
Concen: 0.40 ppb
RT: 13.735 min Scan# 2073
Delta R.T. -0.012 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion:225 Resp: 1404

Ion	Ratio	Lower	Upper
225	100		
223	0.0	42.2	82.2#
227	14.0	47.7	87.7#

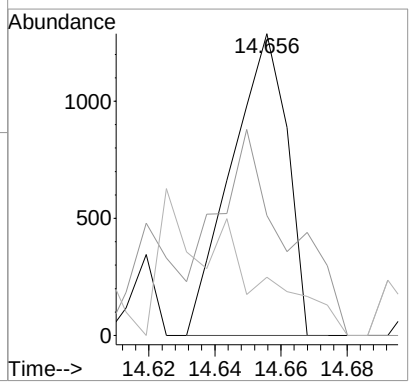




#120
2,3,6-Trichlorotoluene
Concen: 0.37 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P8690.D
Acq: 25 Mar 2017 3:43 am

Tgt Ion:159 Resp: 1515

Ion	Ratio	Lower	Upper
159	100		
161	39.8	44.3	66.5#
194	19.3	34.8	52.2#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8691.D
Acq On : 25 Mar 2017 4:13 am
Operator : K.Ruest
Sample : R1702492-007|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 27 15:37:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

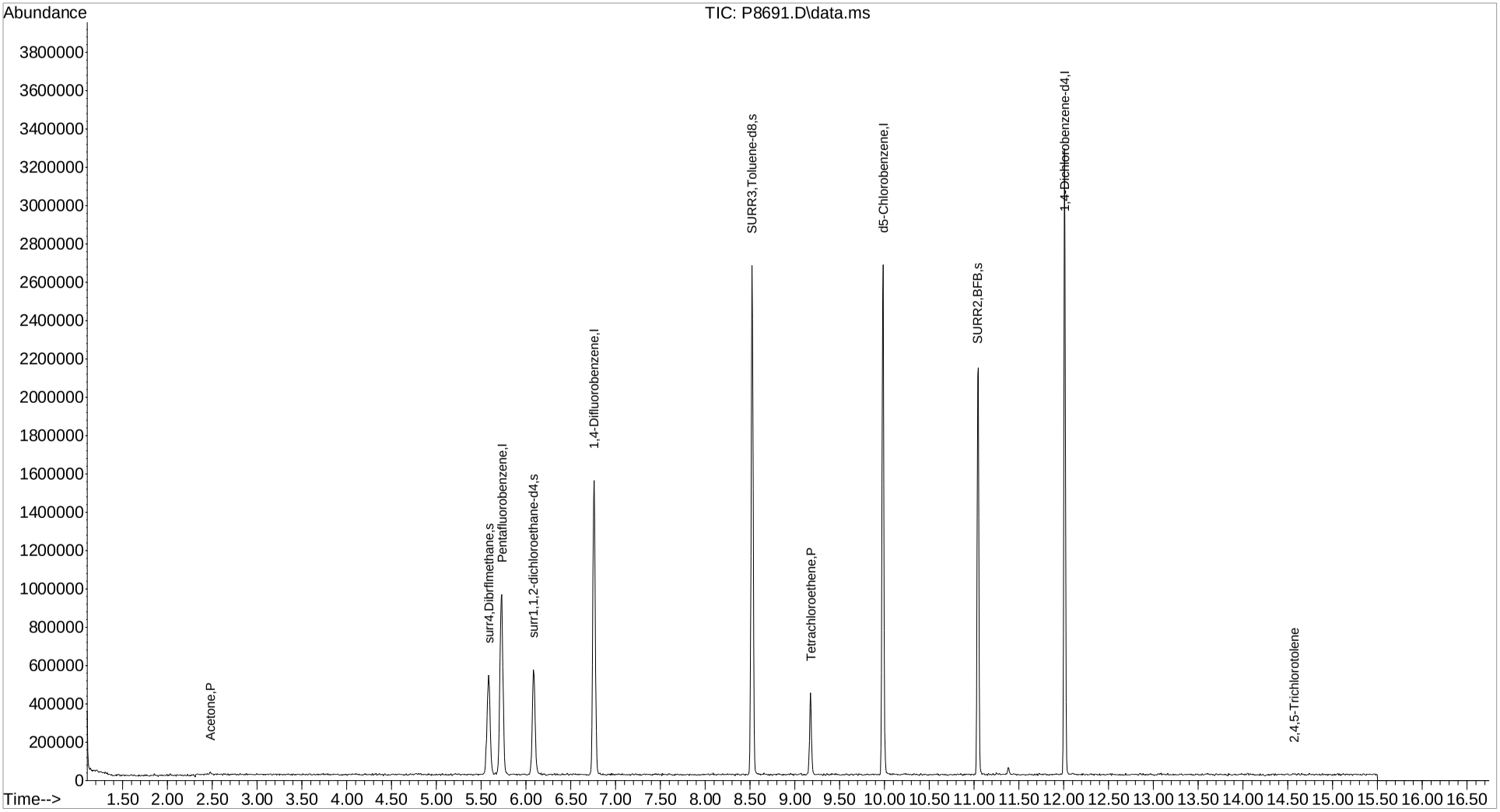
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	771661	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1276131	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1187319	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	601175	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	375998	54.60	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.20%				
48) surr1,1,2-dichloroetha...	6.084	65	433247	56.67	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 113.34%				
65) SURR3,Toluene-d8	8.523	98	1590054	55.85	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.70%				
70) SURR2,BFB	11.041	95	565302	51.24	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.48%				
Target Compounds							Qvalue
15) Acetone	2.481	43	8723	7.70	ppb		94
72) Tetrachloroethene	9.175	164	76598	14.87	ppb		90
119) 2,4,5-Trichlorotolene	14.570	159	1188	0.23	ppb	#	58

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

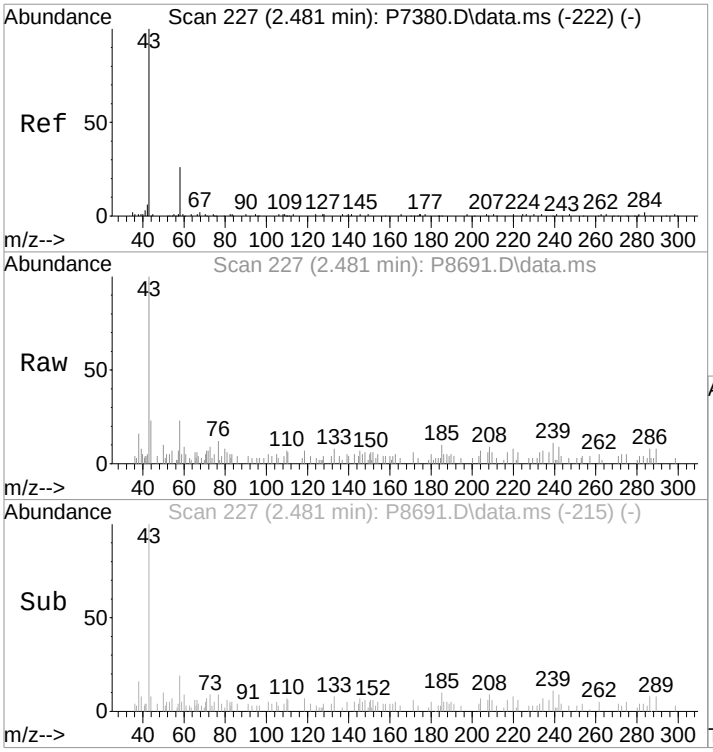
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8691.D
Acq On : 25 Mar 2017 4:13 am
Operator : K.Ruest
Sample : R1702492-007|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 27 15:37:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



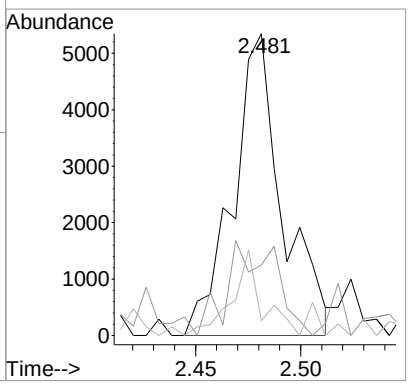
1st 03/27/17
2nd 03/28/17

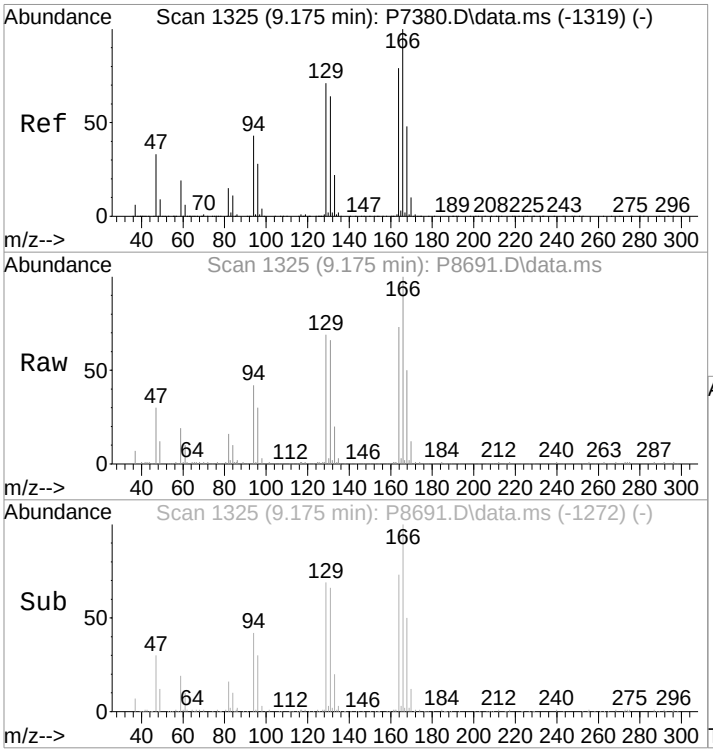


#15
Acetone
Concen: 7.70 ppb
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P8691.D
Acq: 25 Mar 2017 4:13 am

Tgt Ion: 43 Resp: 8723

Ion	Ratio	Lower	Upper
43	100		
58	23.3	6.2	46.2
42	4.9	0.0	26.9

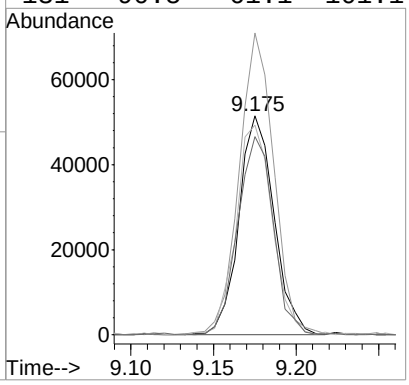


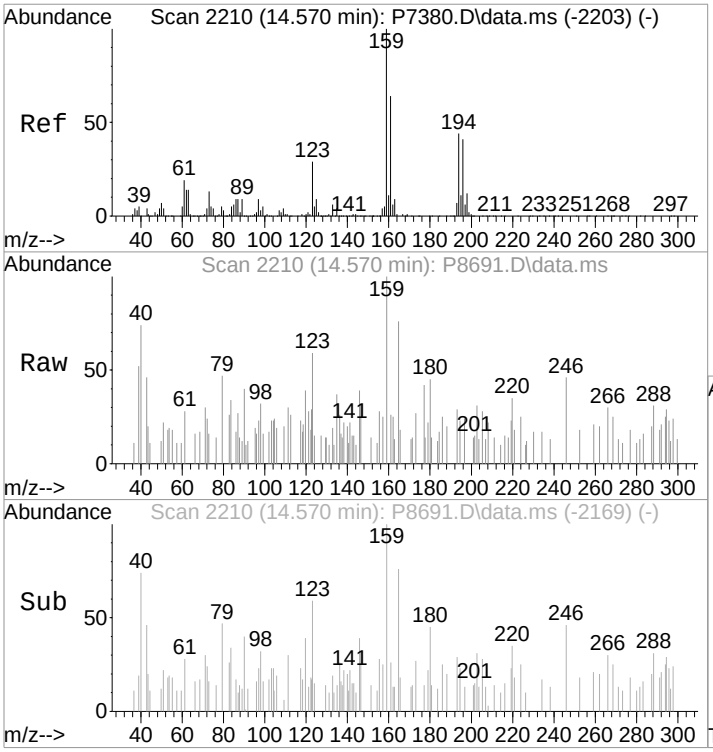


#72
Tetrachloroethene
Concen: 14.87 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8691.D
Acq: 25 Mar 2017 4:13 am

Tgt Ion:164 Resp: 76598

Ion	Ratio	Lower	Upper
164	100		
166	140.6	106.8	146.8
129	95.7	69.7	109.7
131	90.5	61.1	101.1

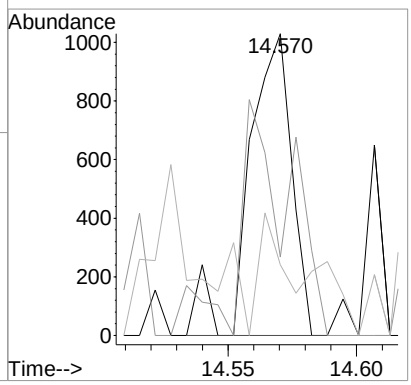




#119
2,4,5-Trichlorotolene
Concen: 0.23 ppb
RT: 14.570 min Scan# 2210
Delta R.T. 0.000 min
Lab File: P8691.D
Acq: 25 Mar 2017 4:13 am

Tgt Ion:159 Resp: 1188

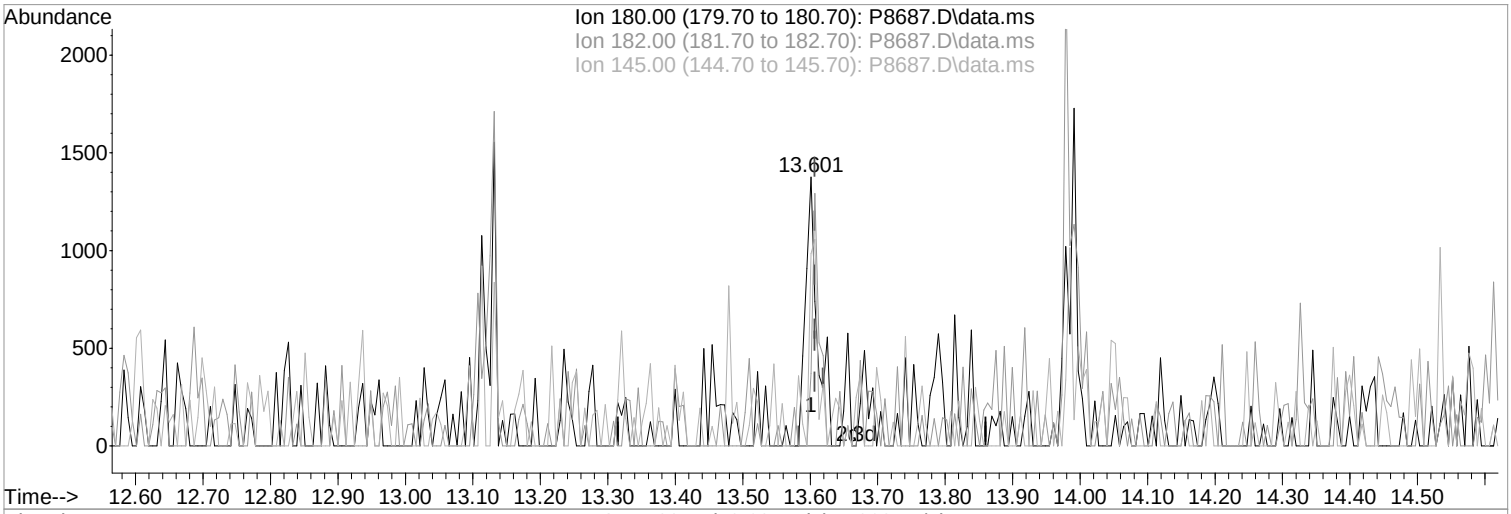
Ion	Ratio	Lower	Upper
159	100		
161	26.0	51.0	76.4#
194	23.4	35.4	53.2#

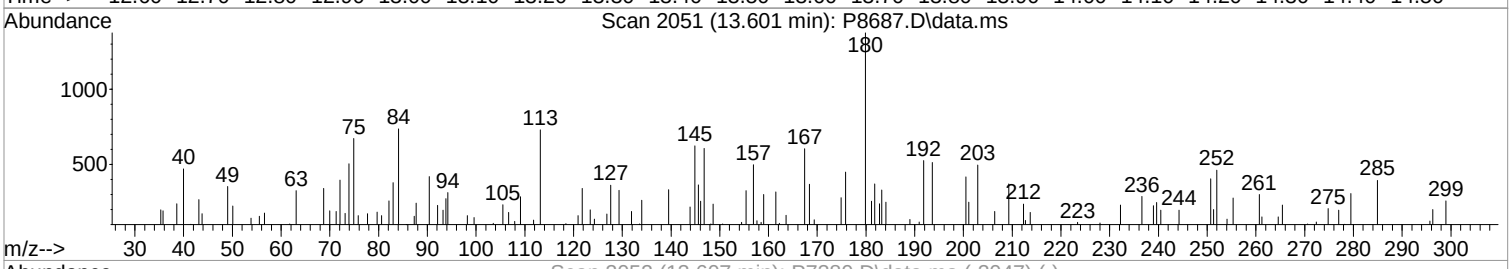


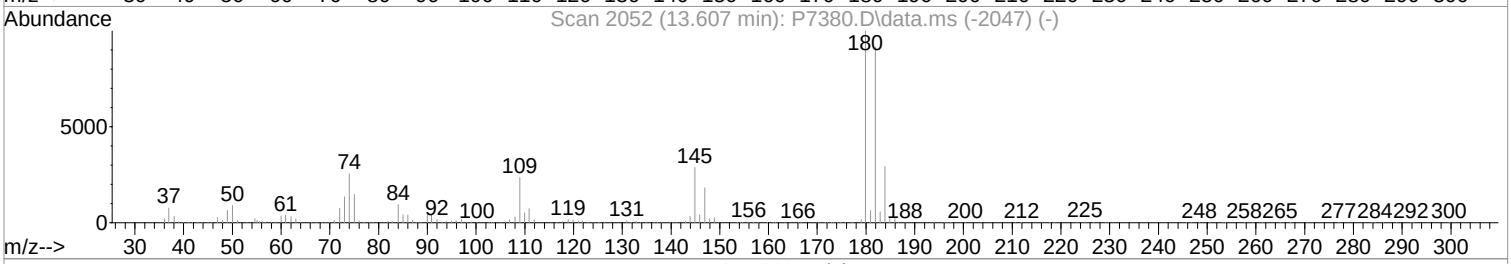
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8687.D\data.ms

(115) 1,2,4-Tcbenzene (P)

13.601min (-0.006) 0.21 ppb m

response 1718

Ion	Exp%	Act%
180.00	100	100
182.00	91.40	26.89#
145.00	28.80	45.20
0.00	0.00	0.00

Manual Integration:

After

Split Peak

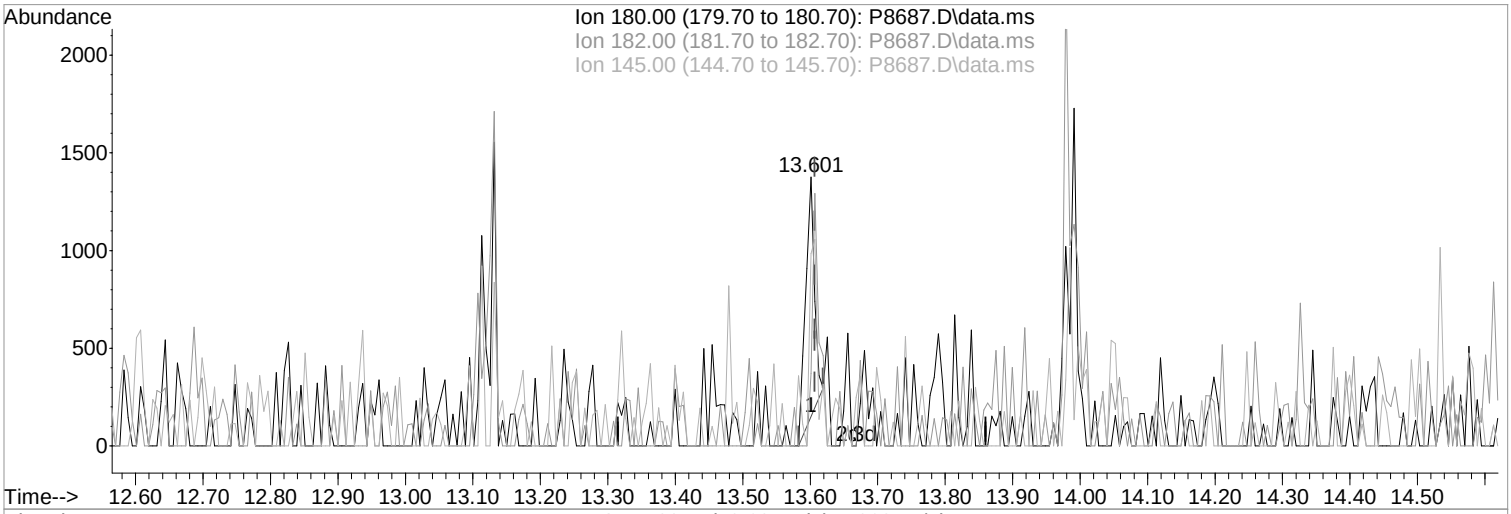
03/27/17

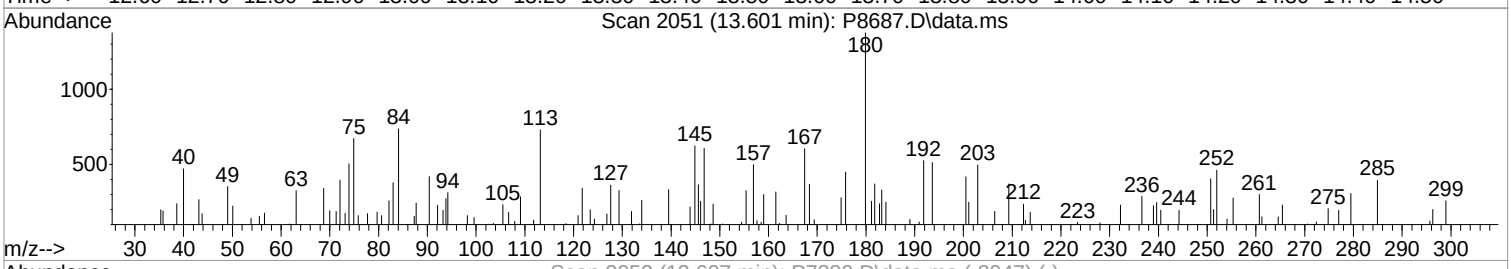
1st 03/27/17
2nd 03/28/17

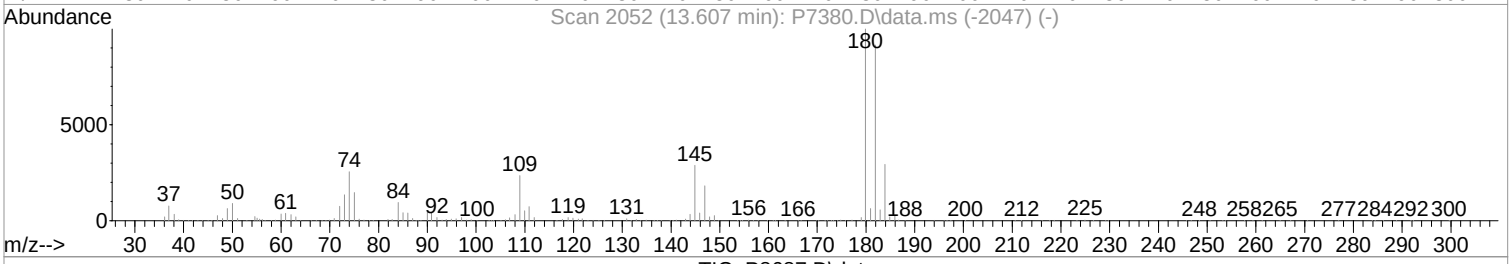
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8687.D\data.ms

(115) 1,2,4-Tcbenzene (P)

13.601min (-0.006) 0.15 ppb

response 1189

Ion	Exp%	Act%
180.00	100	100
182.00	91.40	26.89#
145.00	28.80	71.58#
0.00	0.00	0.00

Manual Integration:

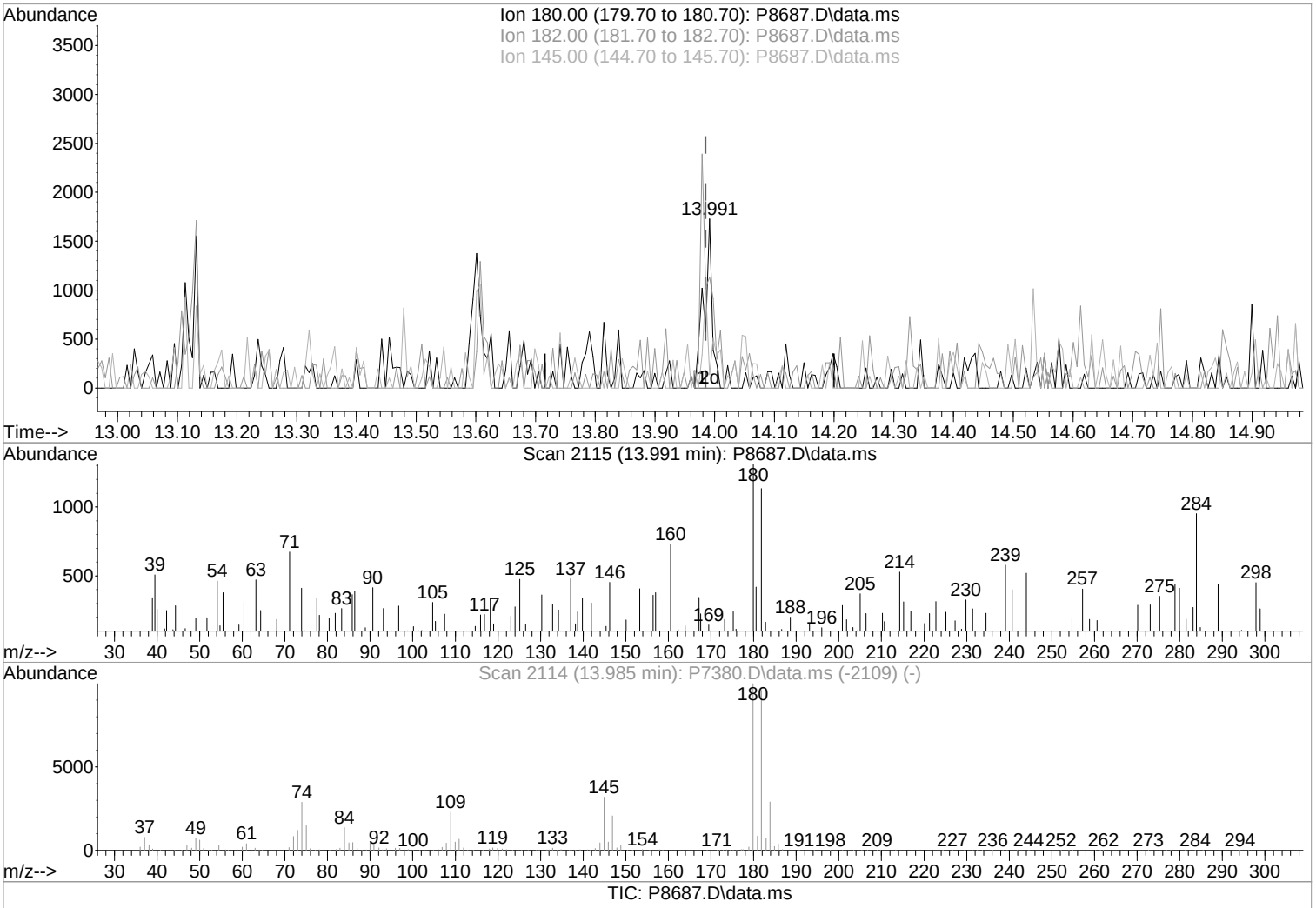
Before

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8687.D\data.ms

(118) 1,2,3-Tclbenzene

13.991min (+0.006) 0.24 ppb m

response 1608

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	86.56
145.00	31.80	10.23#
0.00	0.00	0.00

Manual Integration:

After

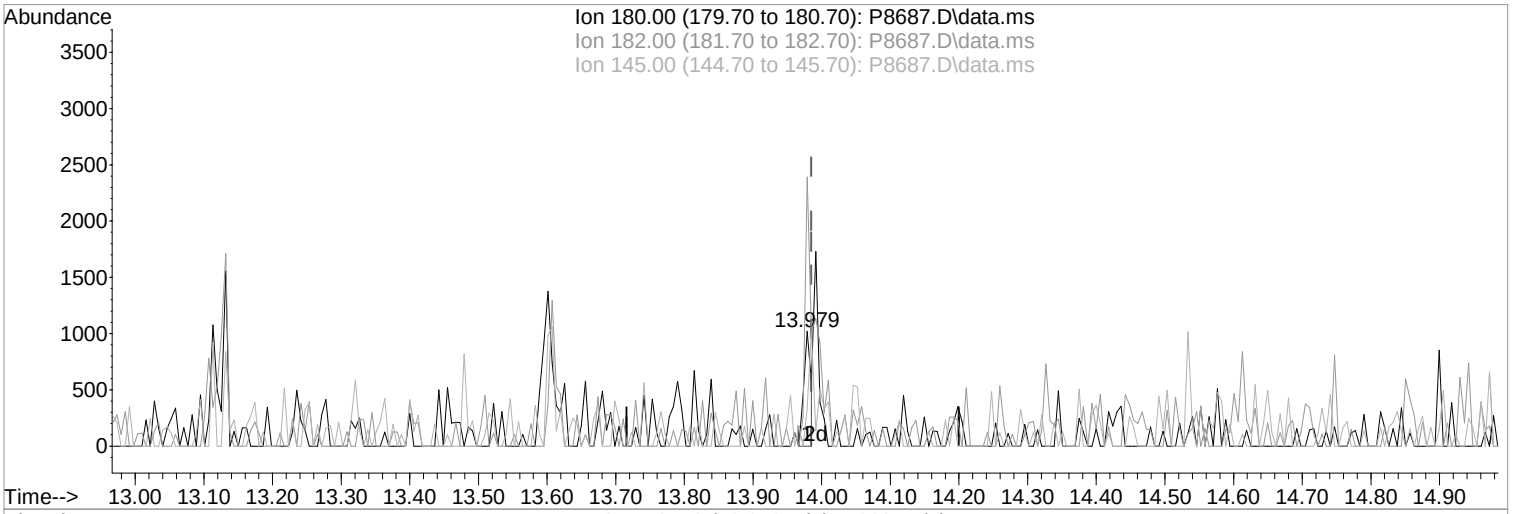
Split Peak

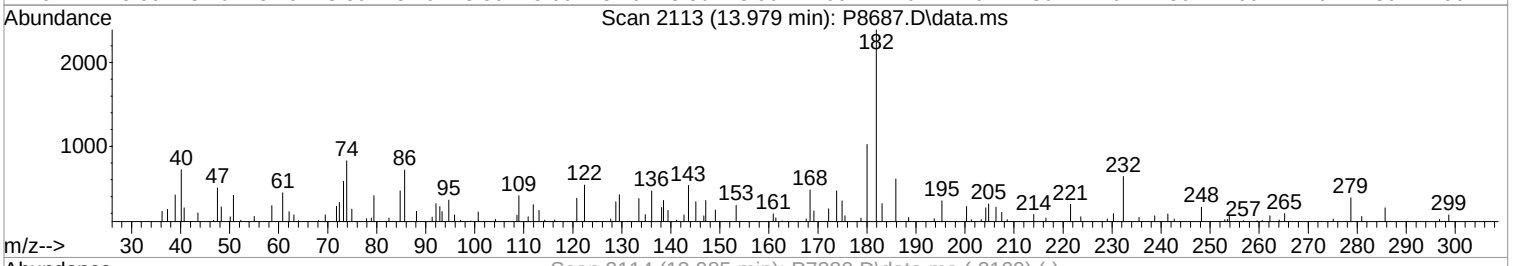
03/27/17

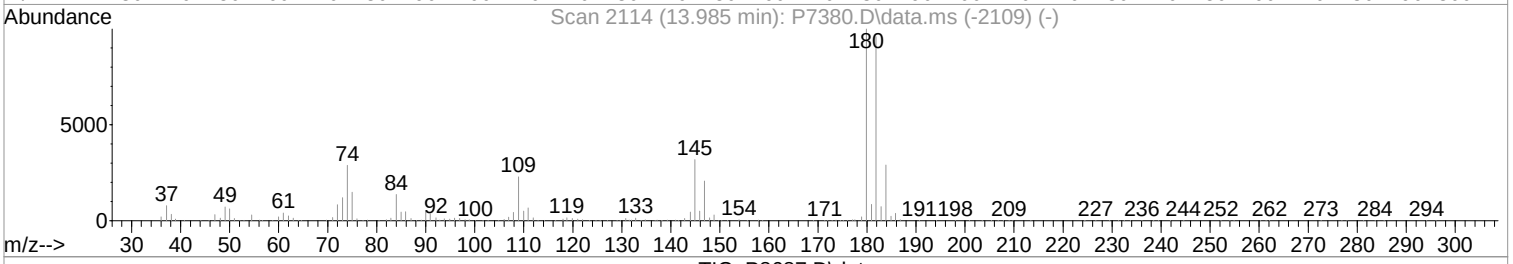
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8687.D\data.ms

(118) 1,2,3-Tclbenzene

13.979min (-0.006) 0.11 ppb

response 747

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	234.18#
145.00	31.80	33.10
0.00	0.00	0.00

Manual Integration:

Before

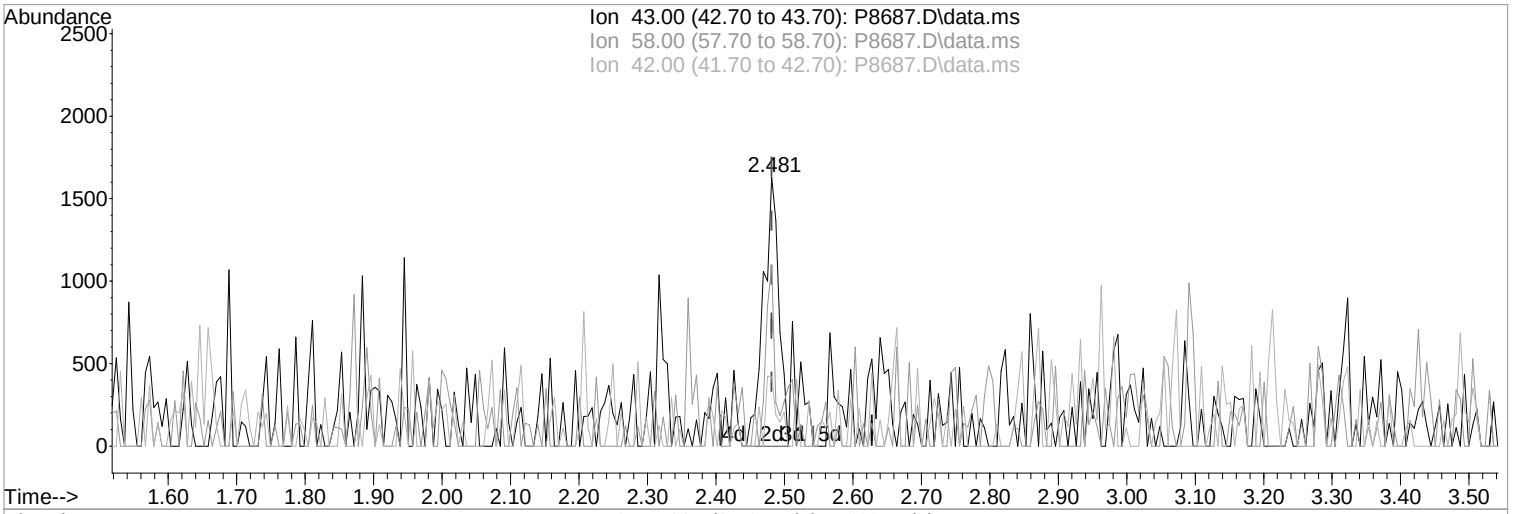
03/27/17

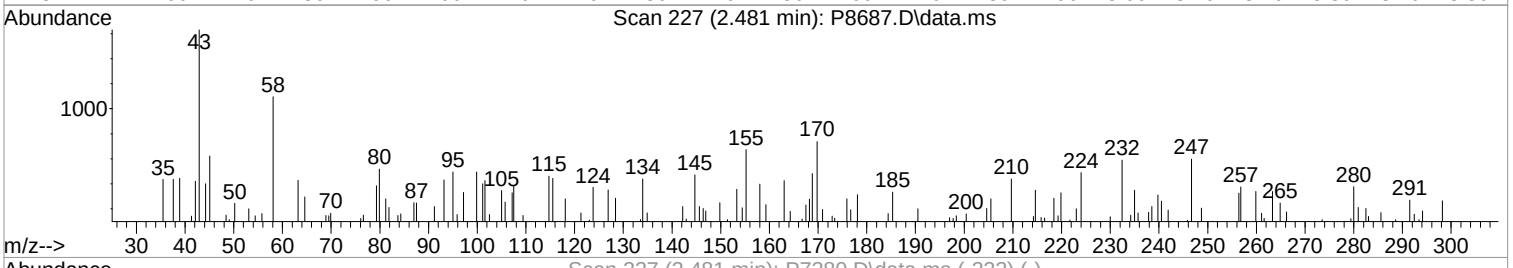
1st 03/27/17
2nd 03/28/17

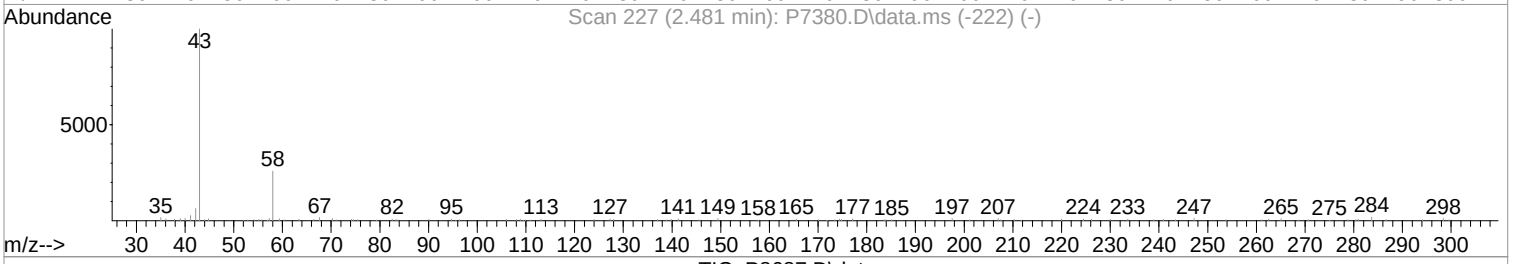
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8687.D\data.ms

(15) Acetone (P)

2.481min (+0.000) 2.22 ppb m

response 2567

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	67.20#
42.00	6.90	25.81
0.00	0.00	0.00

Manual Integration:

After

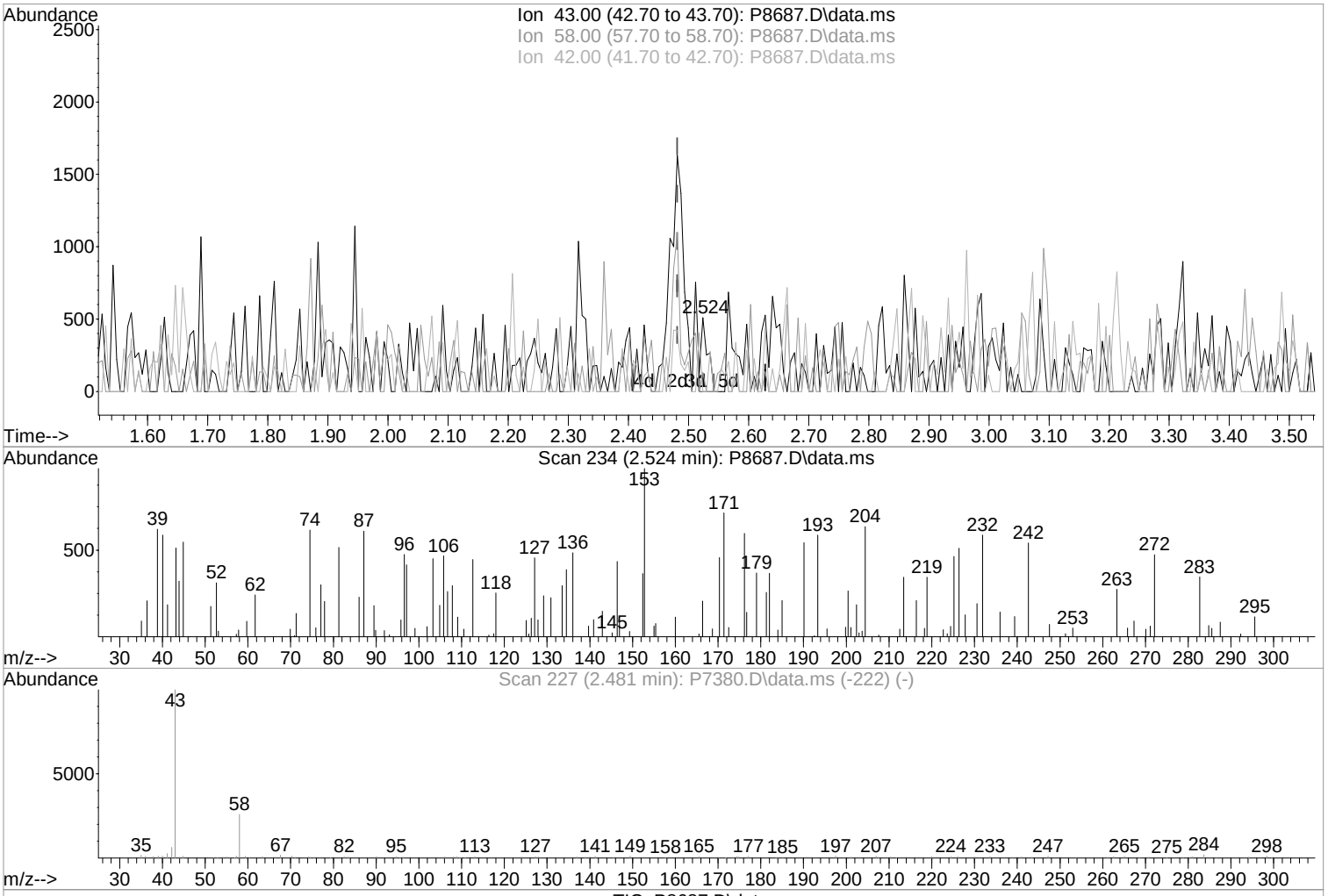
Peak not found.

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8687.D\data.ms

(15) Acetone (P)

2.524min (+0.043) 0.32 ppb

response 376

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	25.69
42.00	6.90	0.00
0.00	0.00	0.00

Manual Integration:

Before

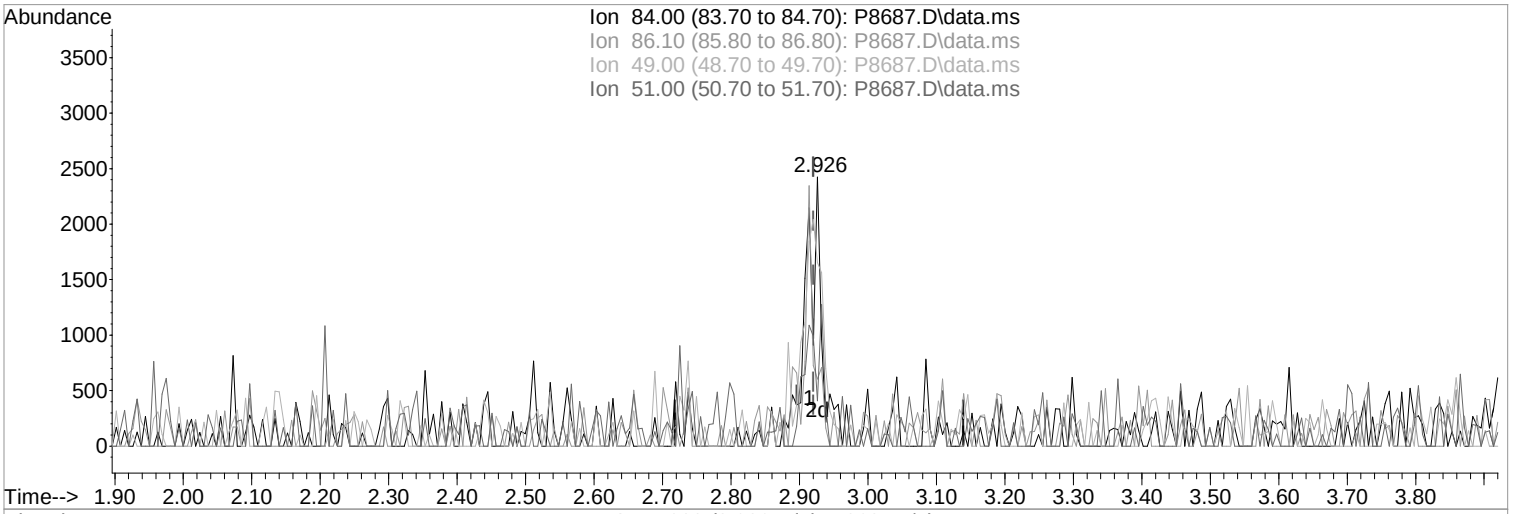
03/27/17

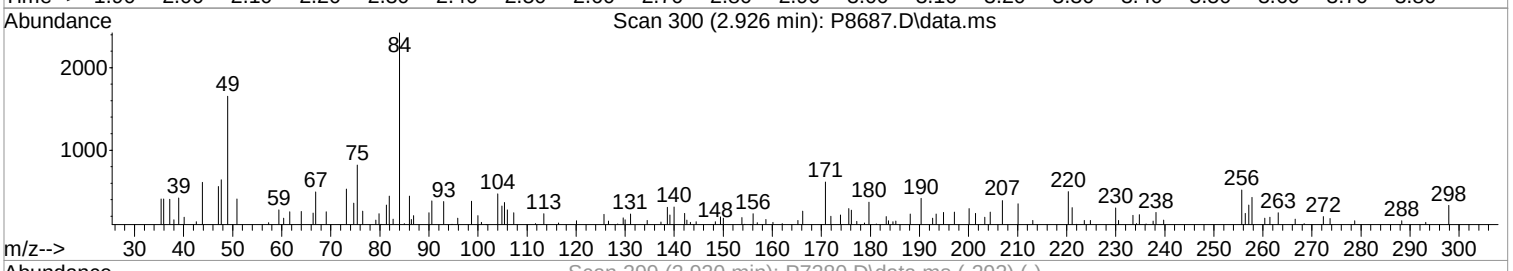
1st 03/27/17
2nd 03/28/17

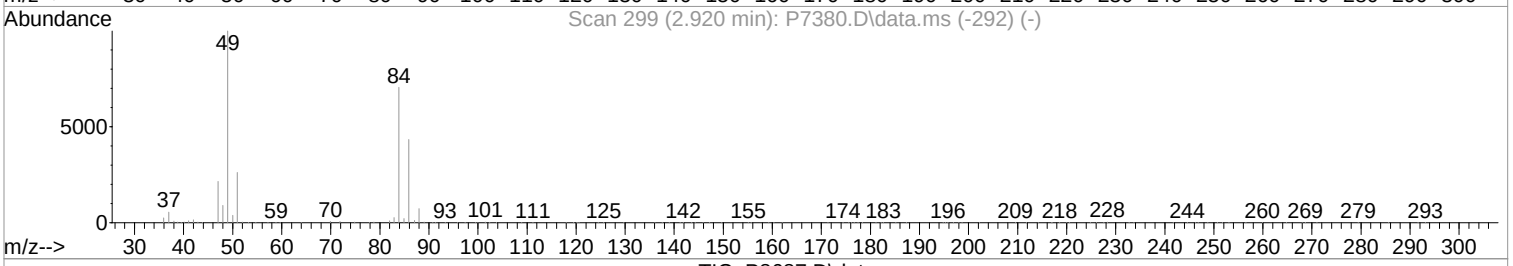
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8687.D\data.ms

(22) Methylene Chloride (P)

2.926min (+0.006) 0.64 ppb m

response 3926

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	18.32#
49.00	142.00	68.23#
51.00	37.20	16.83#

Manual Integration:

After

Split Peak

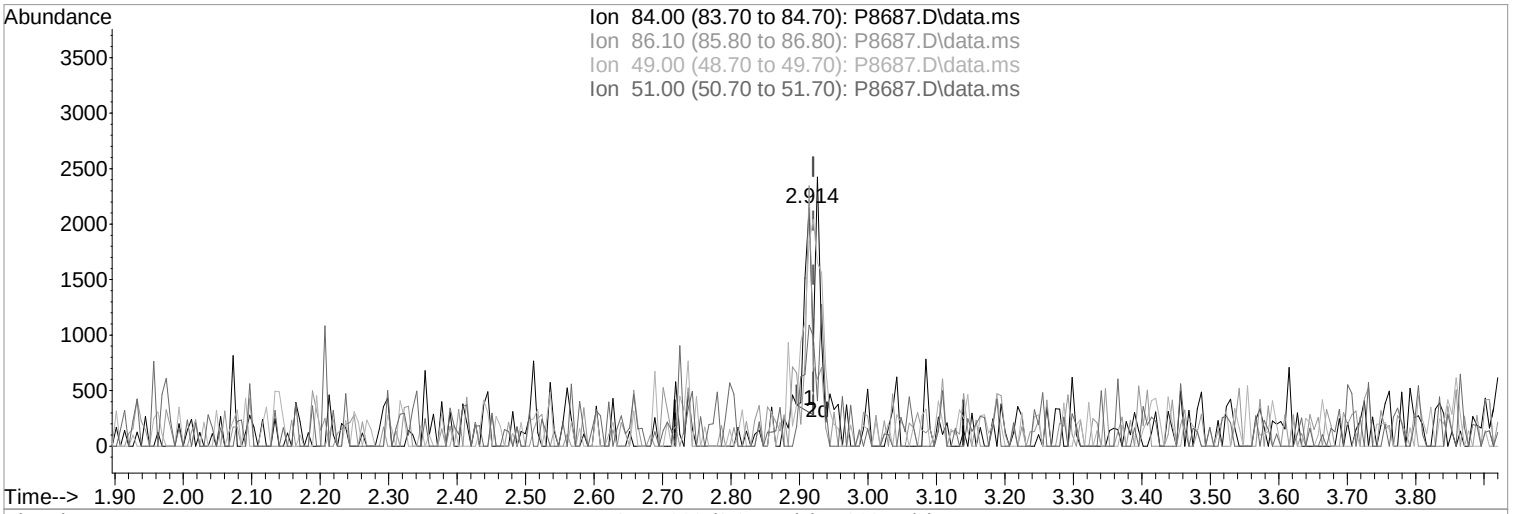
03/27/17

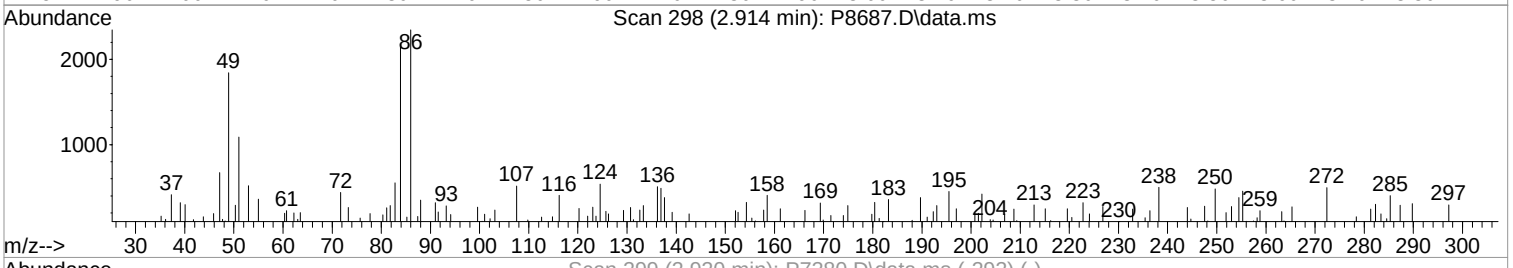
1st 03/27/17
2nd 03/28/17

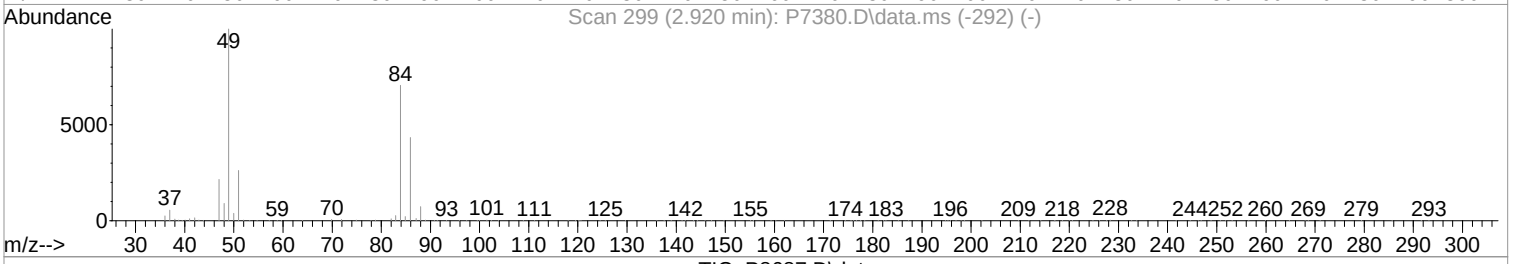
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 09:34:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8687.D\data.ms

(22) Methylene Chloride (P)

2.914min (-0.006) 0.22 ppb

response 1336

Ion	Exp%	Act%
84.00	100	100
86.10	61.50	109.32#
49.00	142.00	85.79#
51.00	37.20	50.72

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 12:14:28 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

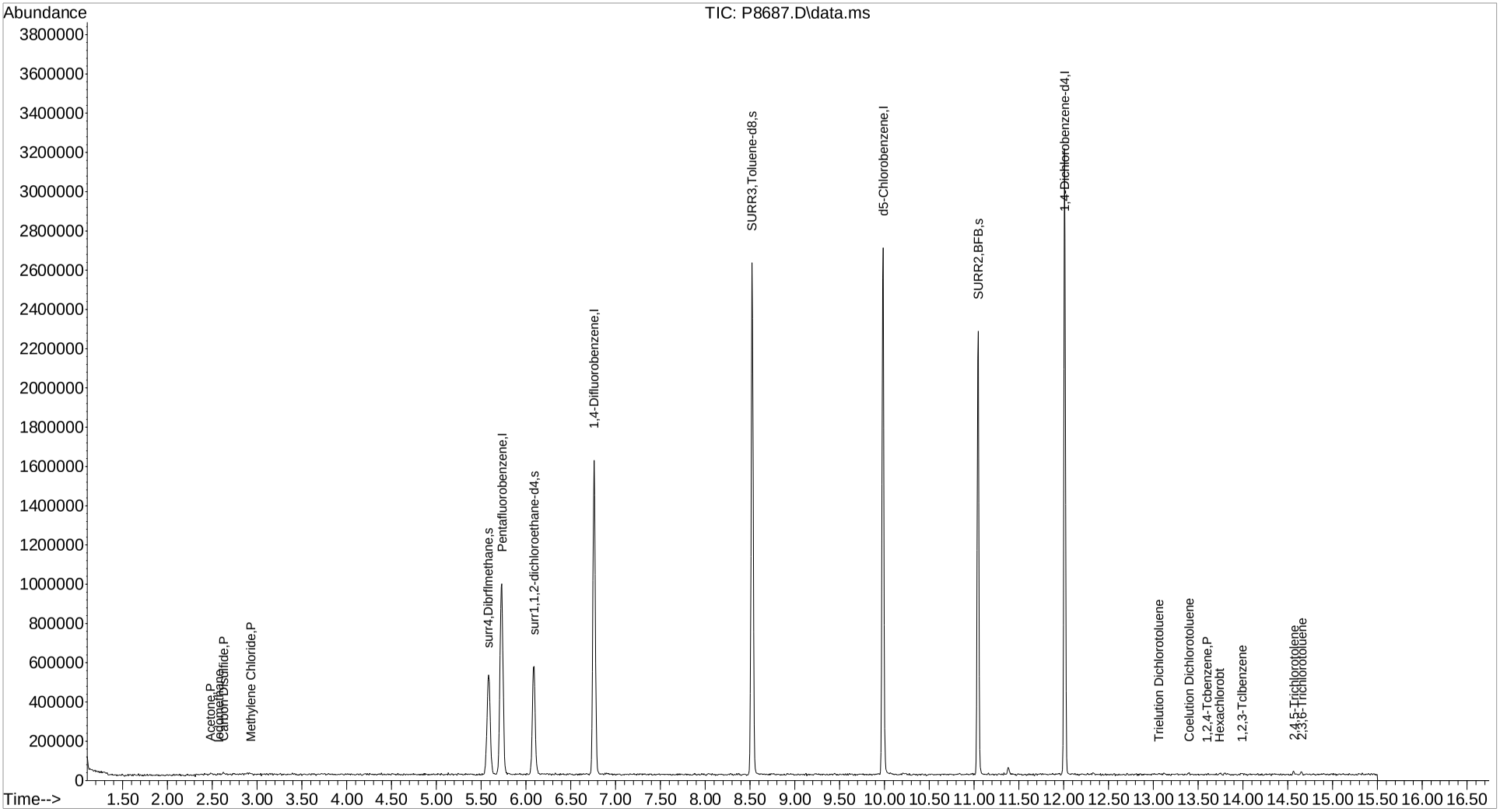
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	788883	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1308889	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1191804	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	609102	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.578	113	377676	53.47	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.94%				
48) surr1,1,2-dichloroetha...	6.090	65	445597	56.82	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 113.64%				
65) SURR3,Toluene-d8	8.523	98	1541839	52.80	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.60%				
70) SURR2,BFB	11.047	95	567909	50.19	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.38%				
Target Compounds							Qvalue
15) Acetone	2.481	43	2567m	2.22	ppb		
17) Iodomethane	2.573	142	2662	0.32	ppb		71
18) Carbon Disulfide	2.628	76	10811	0.63	ppb		94
22) Methylene Chloride	2.926	84	3926m	0.64	ppb		
112) Trielution Dichlorotol...	13.058	125	3722	0.36	ppb	#	50
114) Coelution Dichlorotoluene	13.394	125	2585	0.23	ppb	#	78
115) 1,2,4-Tcbenzene	13.601	180	1718m	0.21	ppb		
116) Hexachlorobt	13.735	225	1124	0.31	ppb	#	34
118) 1,2,3-Tclbenzene	13.991	180	1608m	0.24	ppb		
119) 2,4,5-Trichlorotolene	14.570	159	2868	0.56	ppb	#	88
120) 2,3,6-Trichlorotoluene	14.656	159	1785	0.42	ppb	#	21

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

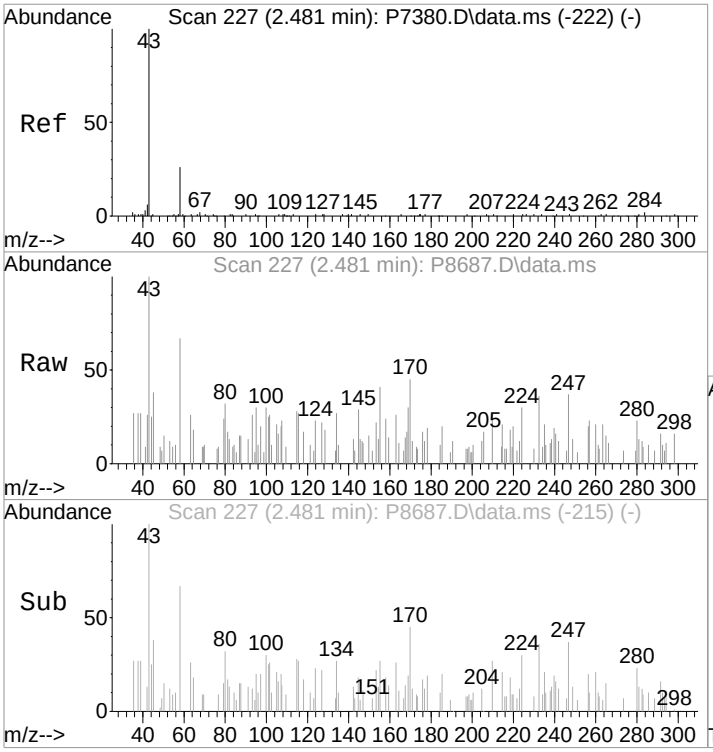
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8687.D
Acq On : 25 Mar 2017 2:13 am
Operator : K.Ruest
Sample : R1702492-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 12:14:28 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



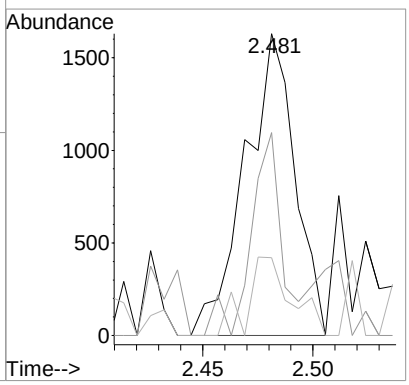
1st 03/27/17
2nd 03/28/17

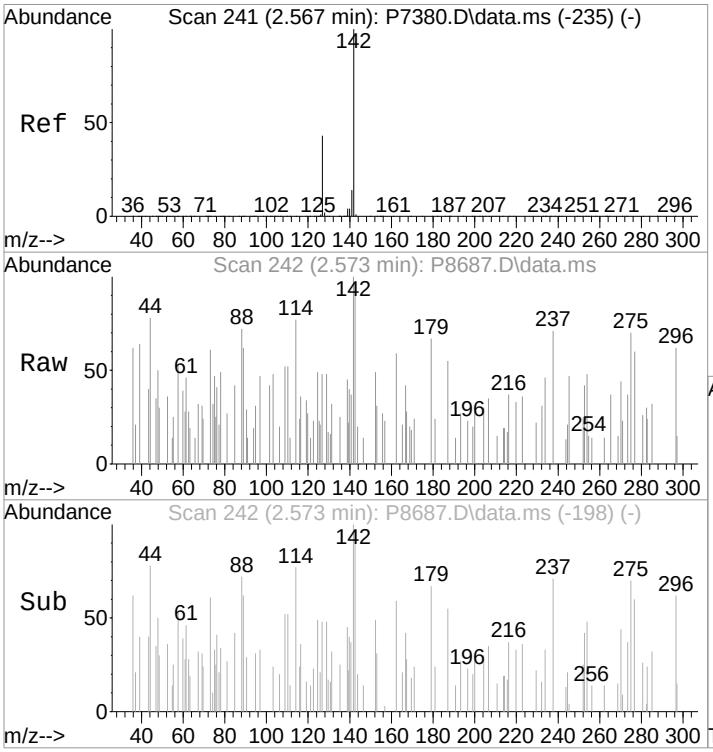


#15
Acetone
Concen: 2.22 ppb m
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion: 43 Resp: 2567

Ion	Ratio	Lower	Upper
43	100		
58	67.2	6.2	46.2#
42	25.8	0.0	26.9

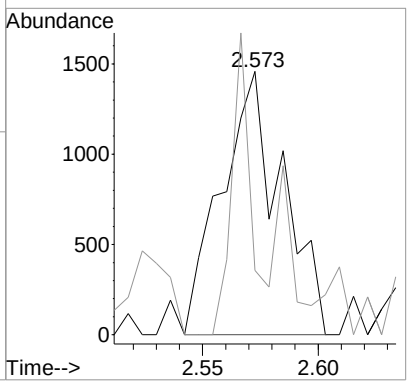


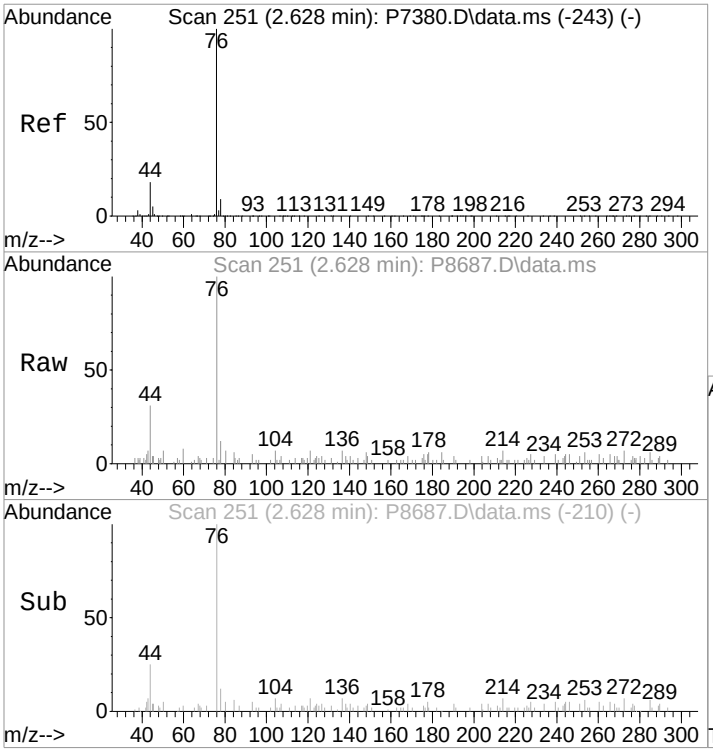


#17
Iodomethane
Concen: 0.32 ppb
RT: 2.573 min Scan# 242
Delta R.T. 0.006 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:142 Resp: 2662

Ion	Ratio	Lower	Upper
142	100		
127	24.5	23.1	63.1

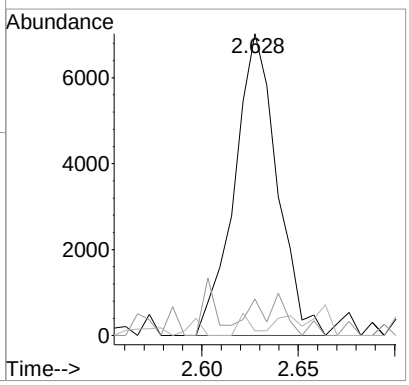


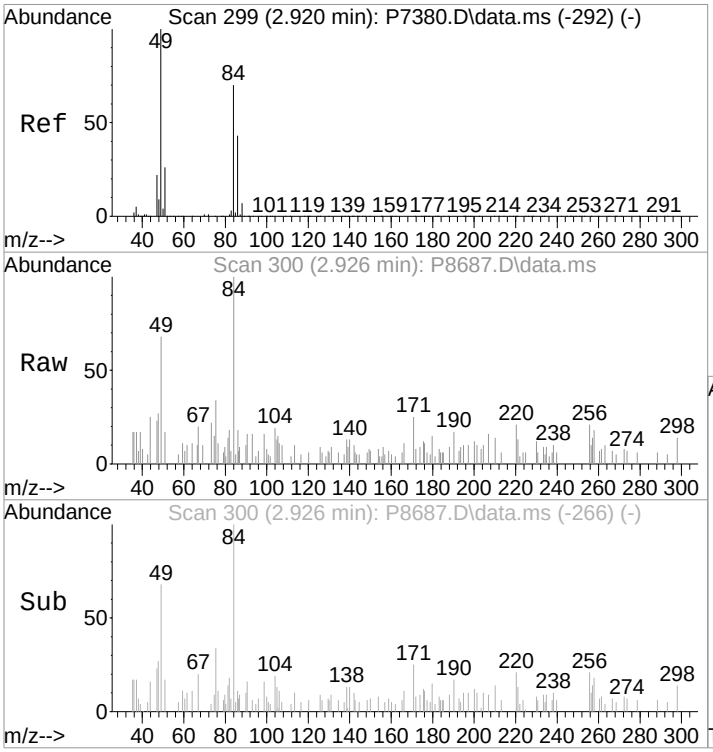


#18
Carbon Disulfide
Concen: 0.63 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion: 76 Resp: 10811

Ion	Ratio	Lower	Upper
76	100		
78	12.1	0.0	29.5
77	1.5	0.0	22.7

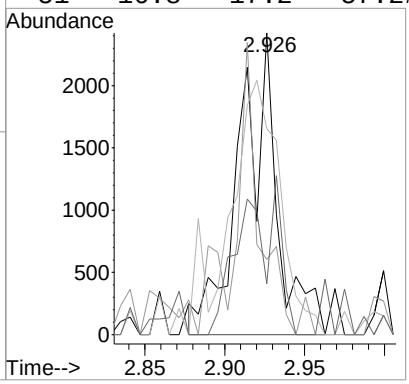


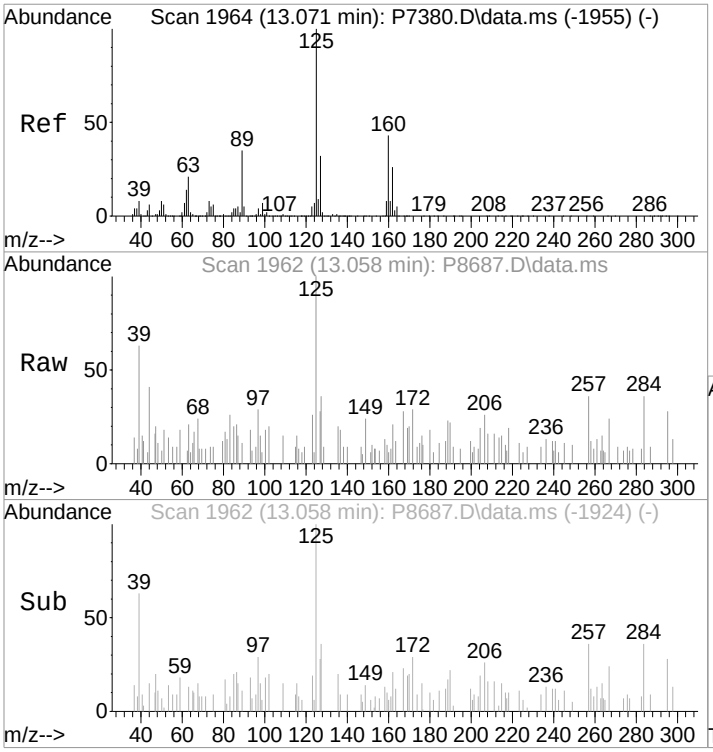


#22
Methylene Chloride
Concen: 0.64 ppb m
RT: 2.926 min Scan# 300
Delta R.T. 0.006 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion: 84 Resp: 3926

Ion	Ratio	Lower	Upper
84	100		
86	18.3	41.5	81.5#
49	68.2	122.0	162.0#
51	16.8	17.2	57.2#

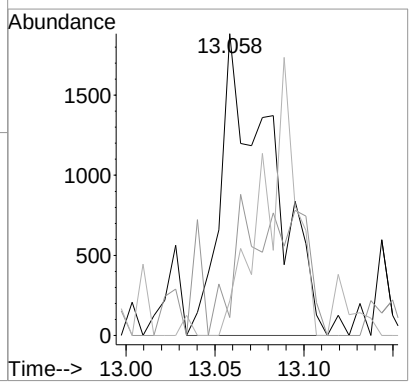


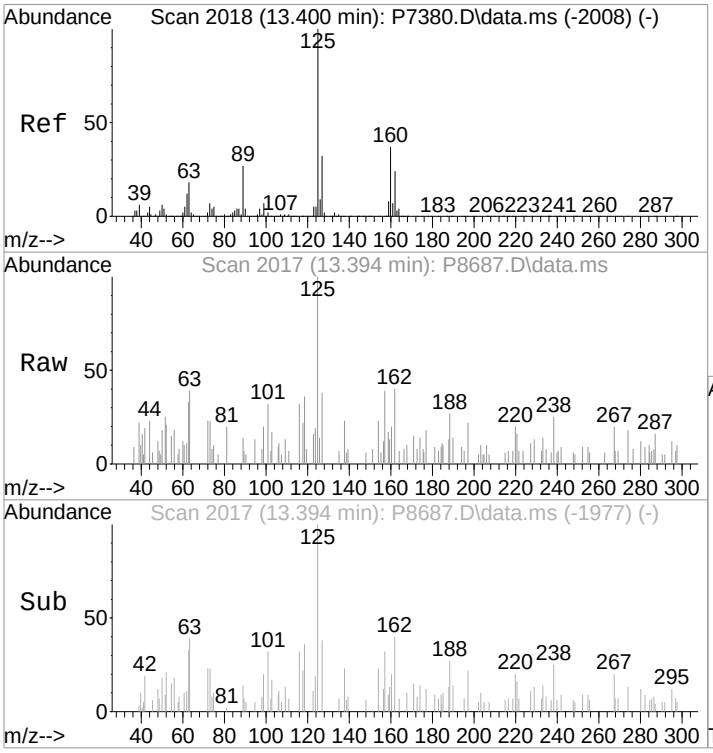


#112
Trielution Dichlorotoluene
Concen: 0.36 ppb
RT: 13.058 min Scan# 1962
Delta R.T. -0.018 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:125 Resp: 3722

Ion	Ratio	Lower	Upper
125	100		
160	5.9	34.6	51.8#
89	11.4	28.0	42.0#

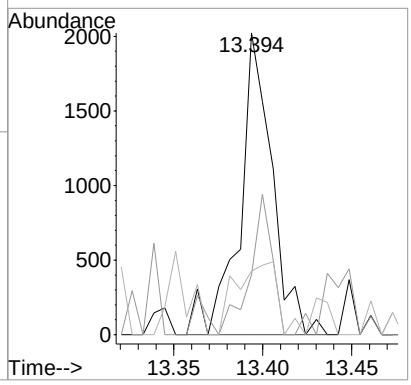


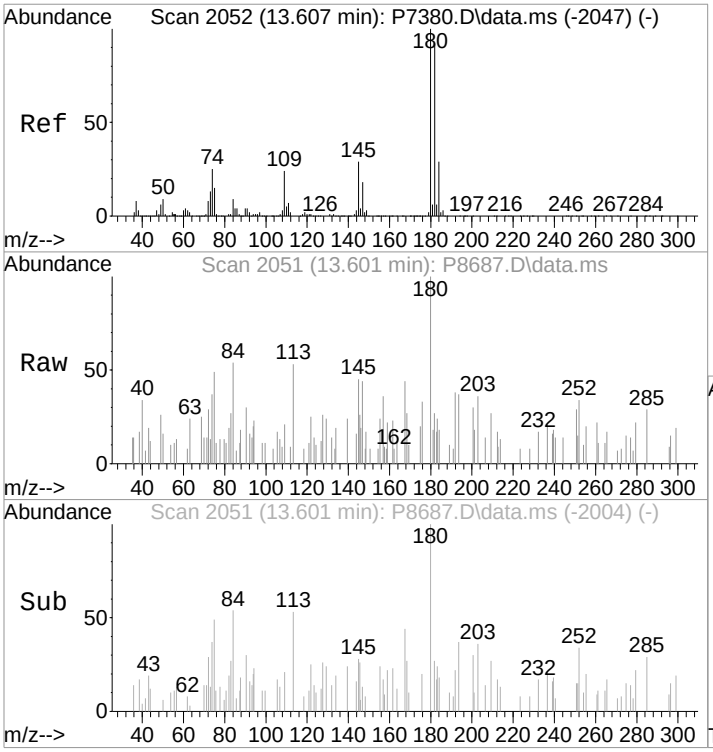


#114
Coelution Dichlorotoluene
Concen: 0.23 ppb
RT: 13.394 min Scan# 2017
Delta R.T. -0.006 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:125 Resp: 2585

Ion	Ratio	Lower	Upper
125	100		
160	19.8	29.8	44.6#
89	21.0	21.7	32.5#

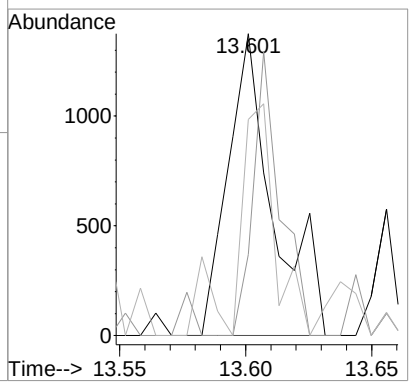


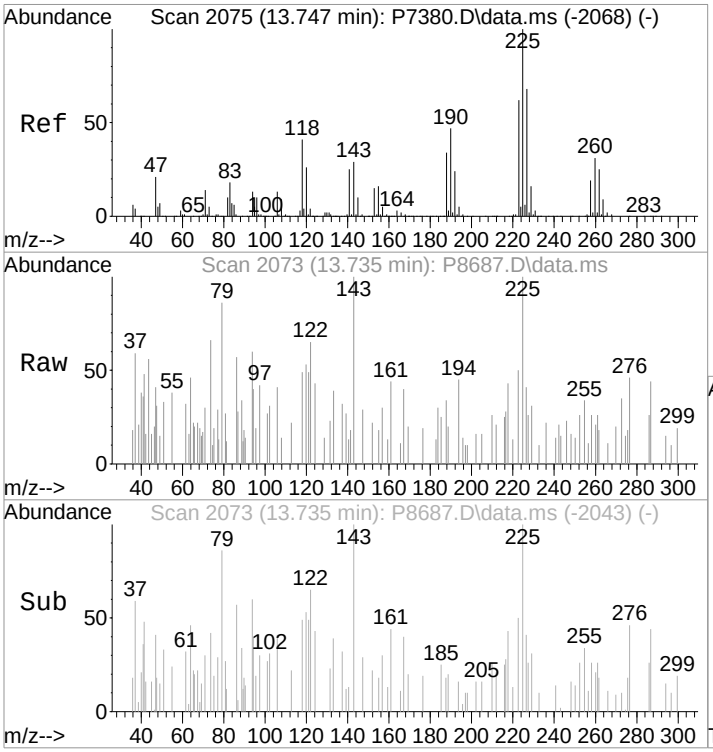


#115
1,2,4-Tcbenzene
Concen: 0.21 ppb m
RT: 13.601 min Scan# 2051
Delta R.T. -0.006 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:180 Resp: 1718

Ion	Ratio	Lower	Upper
180	100		
182	26.9	71.4	111.4#
145	45.2	8.8	48.8

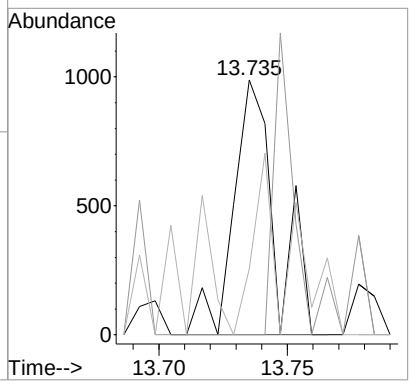


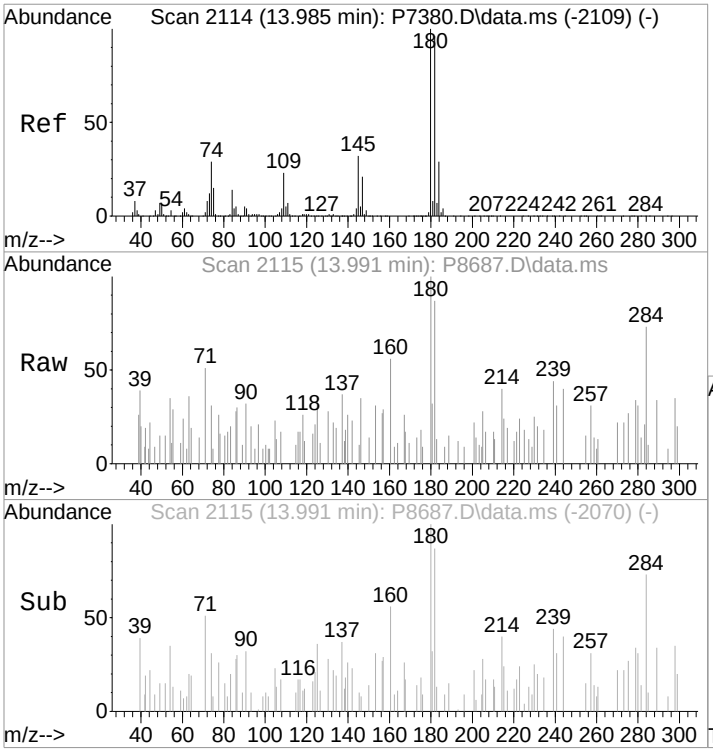


#116
Hexachlorobt
Concen: 0.31 ppb
RT: 13.735 min Scan# 2073
Delta R.T. -0.012 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:225 Resp: 1124

Ion	Ratio	Lower	Upper
225	100		
223	0.0	42.2	82.2#
227	25.9	47.7	87.7#

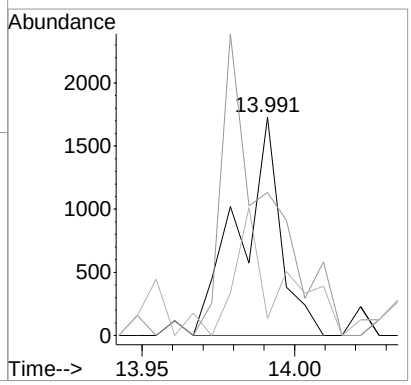


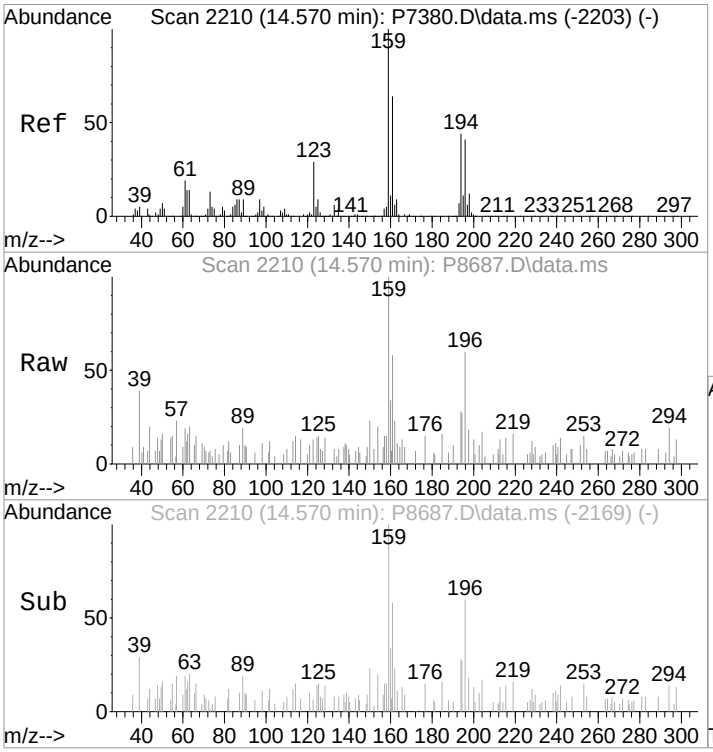


#118
1,2,3-Tclbenzene
Concen: 0.24 ppb m
RT: 13.991 min Scan# 2115
Delta R.T. 0.006 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:180 Resp: 1608

Ion	Ratio	Lower	Upper
180	100		
182	86.6	75.9	115.9
145	10.2	11.8	51.8#

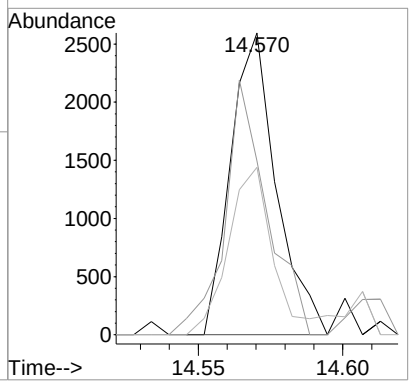


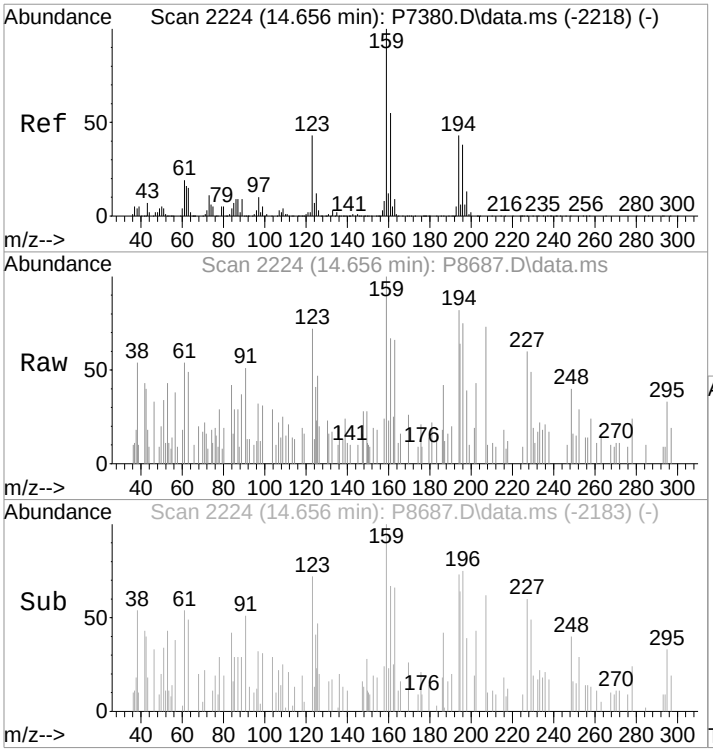


#119
2,4,5-Trichlorotolene
Concen: 0.56 ppb
RT: 14.570 min Scan# 2210
Delta R.T. 0.000 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:159 Resp: 2868

Ion	Ratio	Lower	Upper
159	100		
161	57.6	51.0	76.4
194	55.5	35.4	53.2#

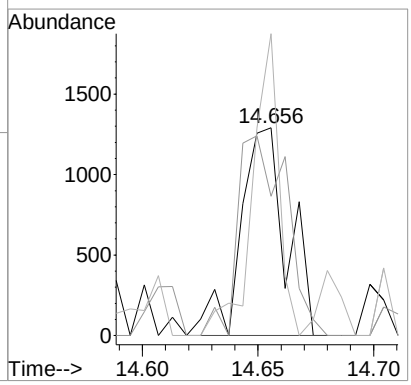




#120
2,3,6-Trichlorotoluene
Concen: 0.42 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P8687.D
Acq: 25 Mar 2017 2:13 am

Tgt Ion:159 Resp: 1785

Ion	Ratio	Lower	Upper
159	100		
161	67.1	44.3	66.5#
194	145.4	34.8	52.2#

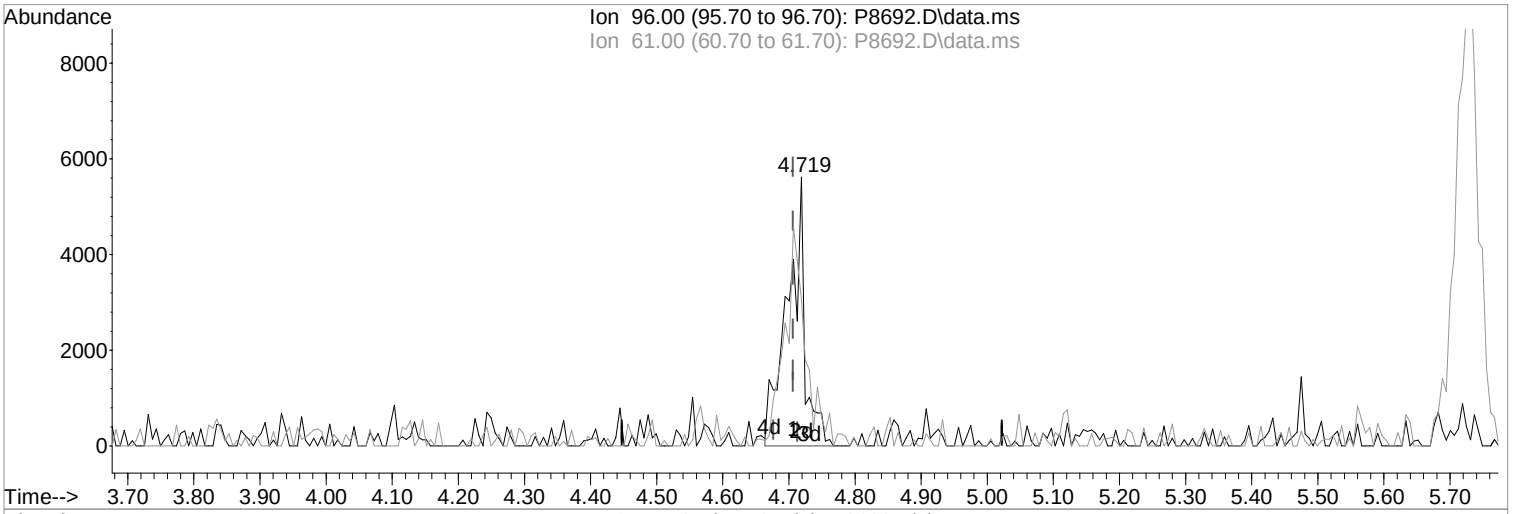


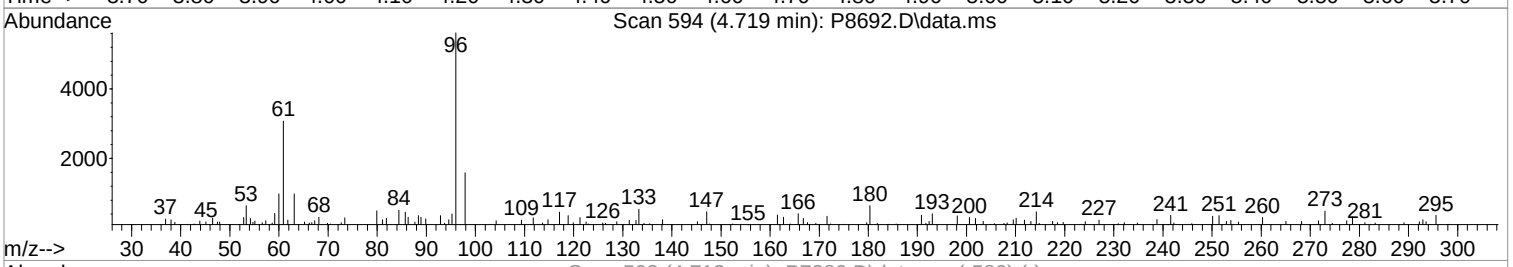
1st 03/27/17
2nd 03/28/17

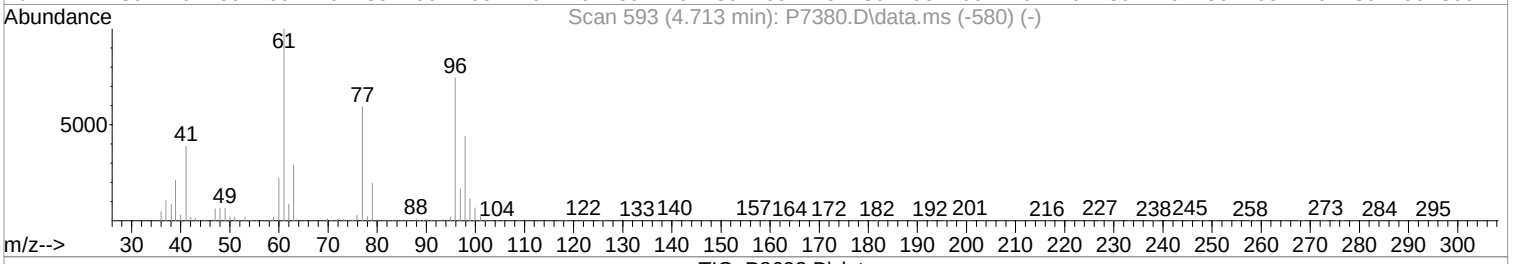
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 09:36:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8692.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.719min (+0.012) 1.50 ppb m

response 10393

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	54.69#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

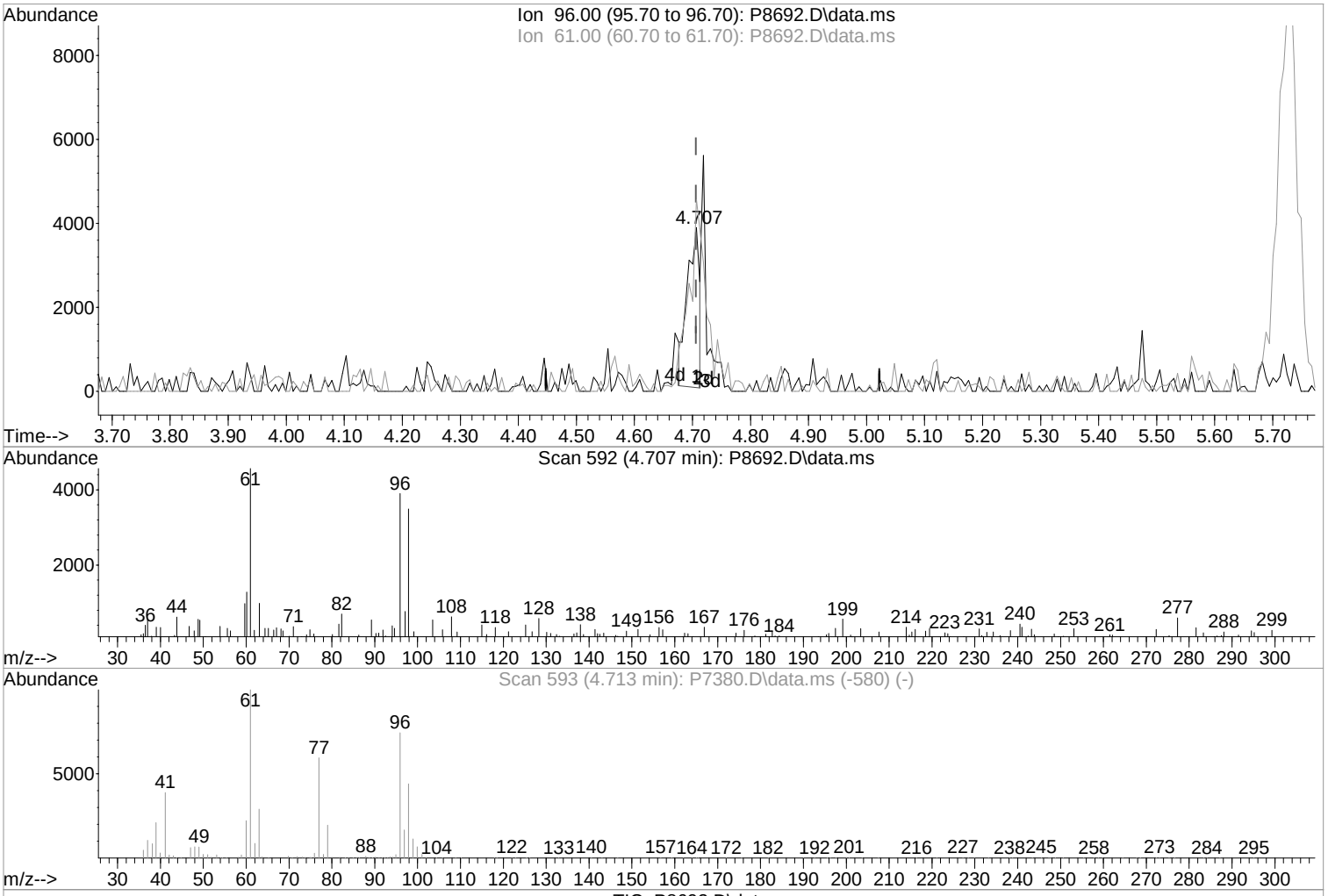
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 09:36:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8692.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.707min (+0.000) 0.81 ppb

response 5603

Ion	Exp%	Act%
96.00	100	100
61.00	134.80	117.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

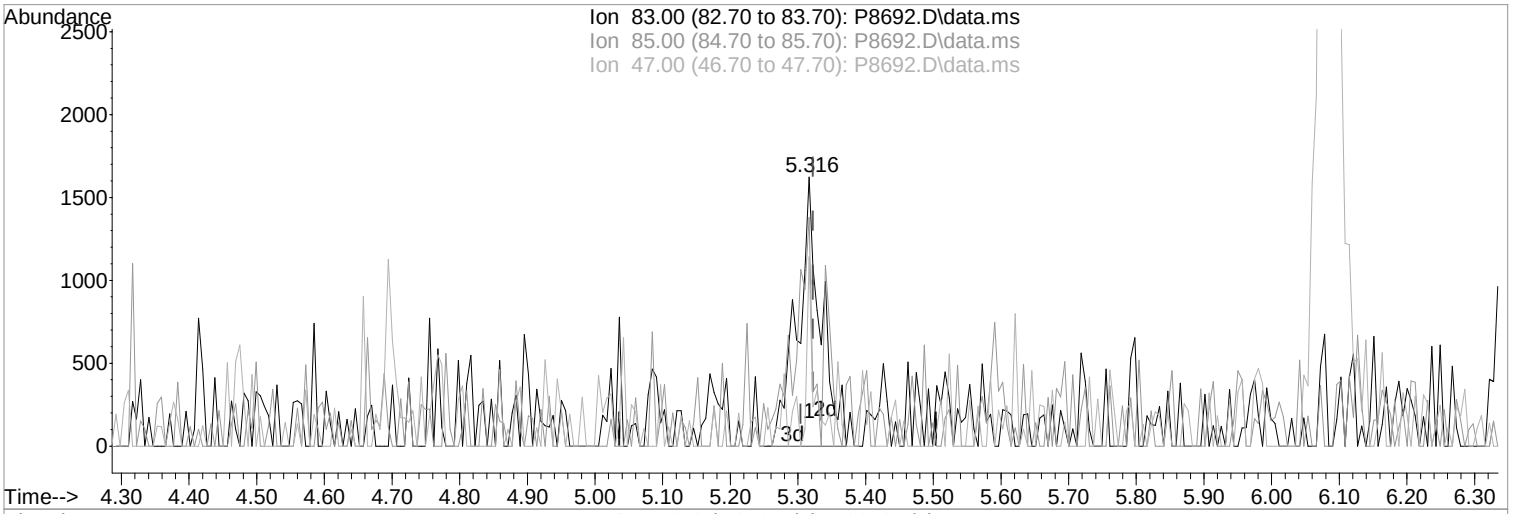
03/27/17

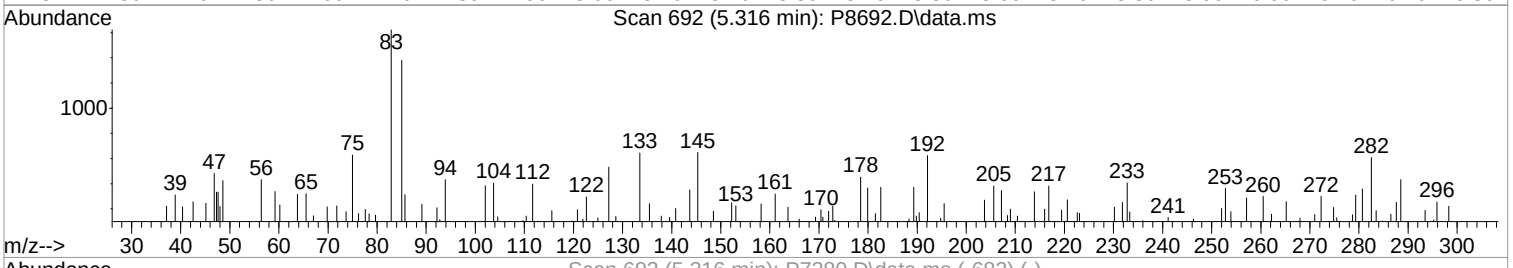
1st 03/27/17
2nd 03/28/17

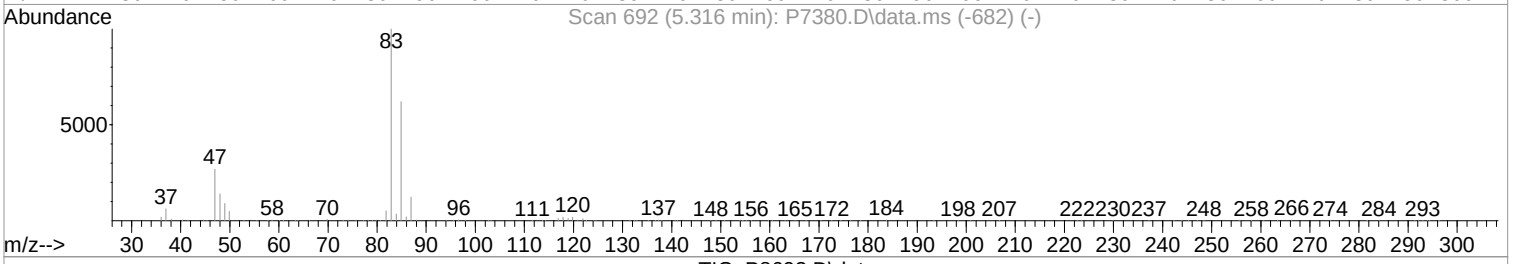
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 09:36:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8692.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.37 ppb m

response 3896

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	84.97#
47.00	26.90	29.51
0.00	0.00	0.00

Manual Integration:

After

Split Peak

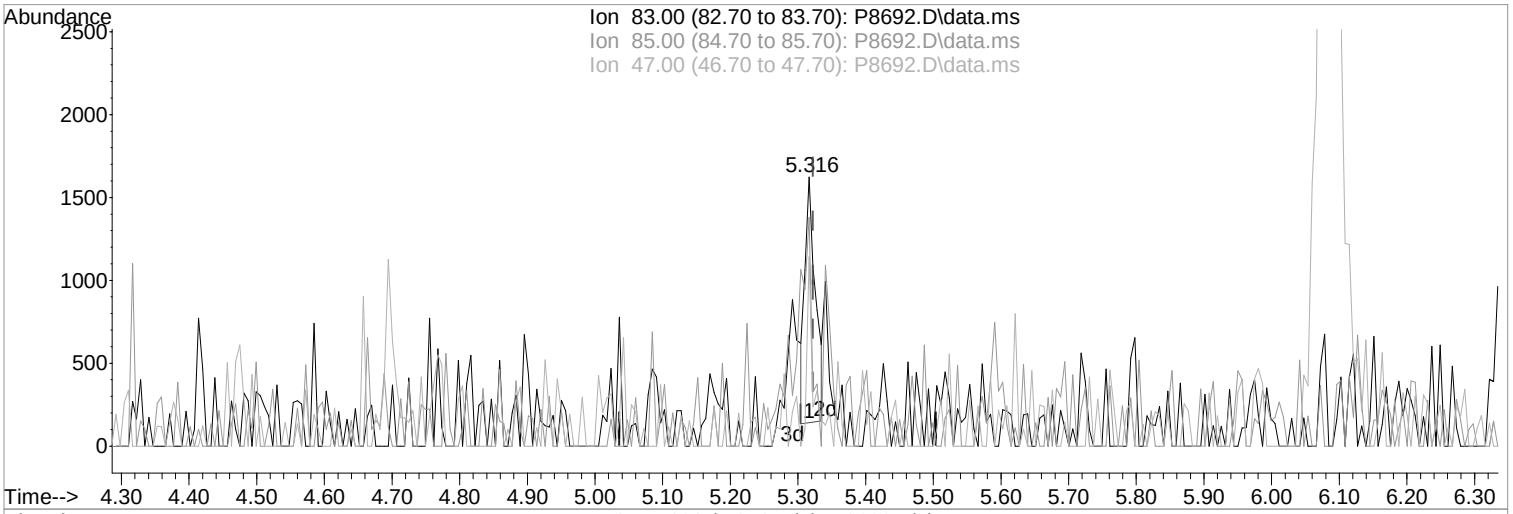
03/27/17

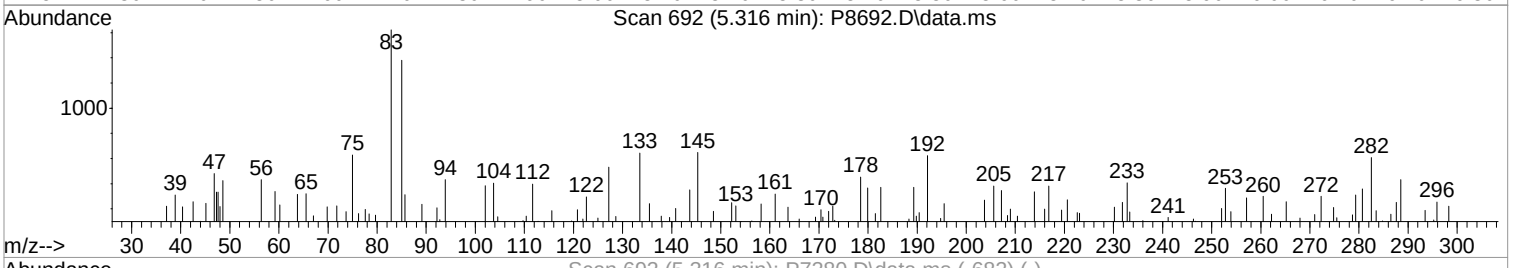
1st 03/27/17
2nd 03/28/17

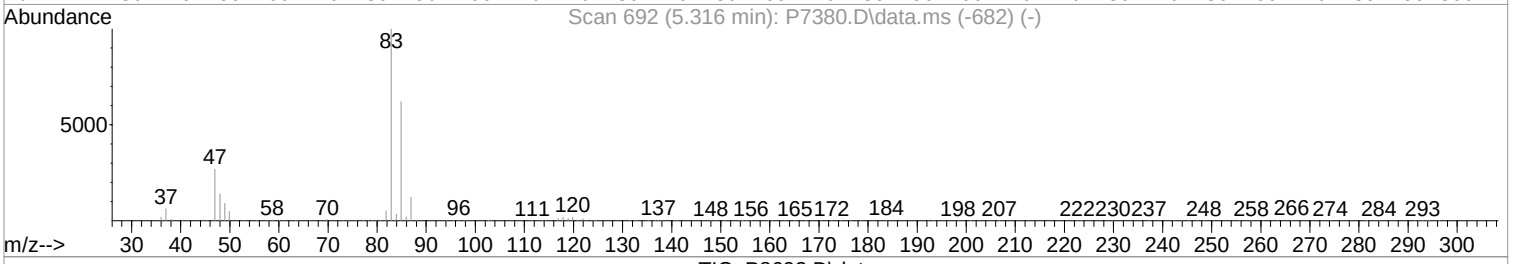
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 09:36:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8692.D\data.ms

(40) Chloroform (P)

5.316min (-0.006) 0.15 ppb

response 1635

Ion	Exp%	Act%
83.00	100	100
85.00	62.30	104.19#
47.00	26.90	70.43#
0.00	0.00	0.00

Manual Integration:

Before

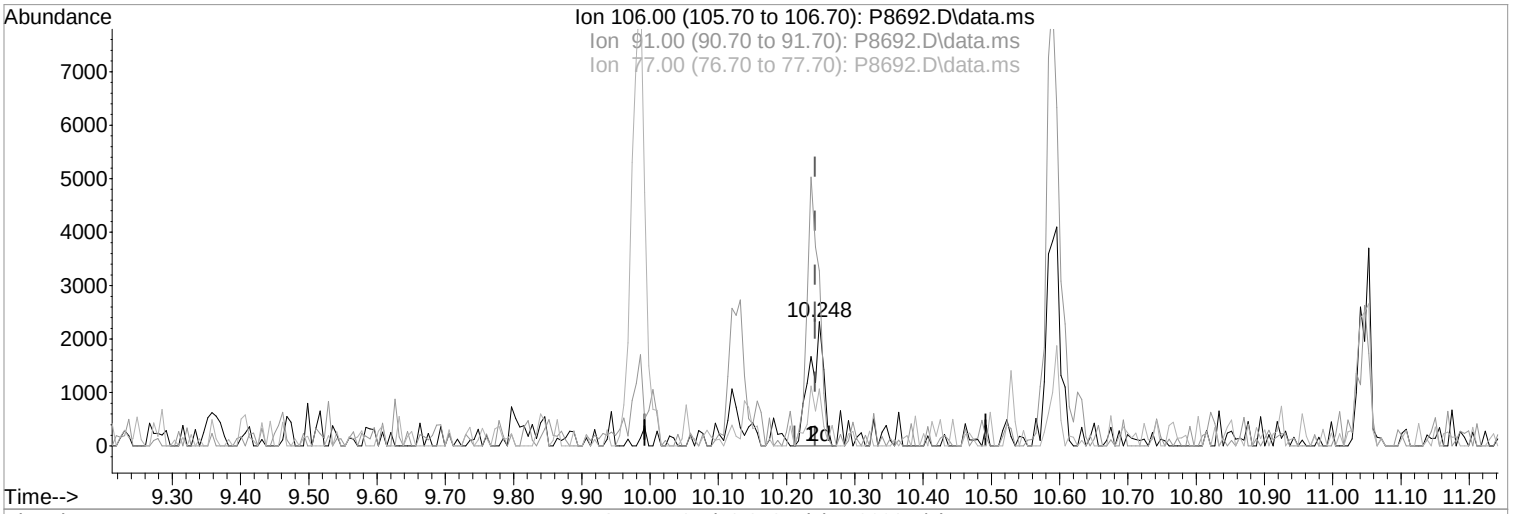
03/27/17

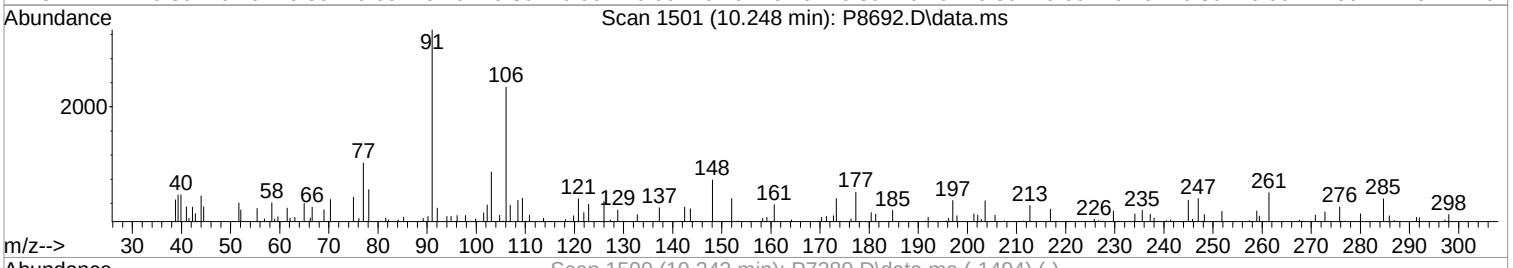
1st 03/27/17
2nd 03/28/17

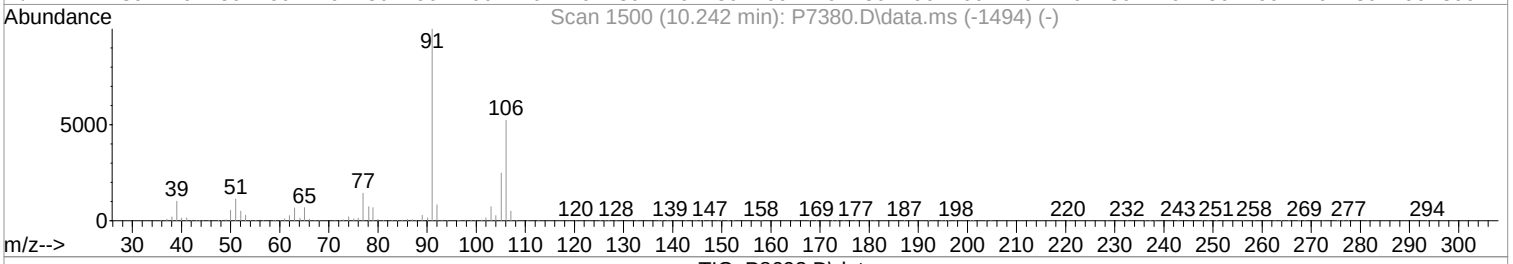
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 09:36:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8692.D\data.ms

(83) (m+p)Xylene (P)

10.248min (+0.006) 0.30 ppb m

response 3313

Ion	Exp%	Act%
106.00	100	100
91.00	190.80	140.99#
77.00	27.30	45.98
0.00	0.00	0.00

Manual Integration:

After

Split Peak

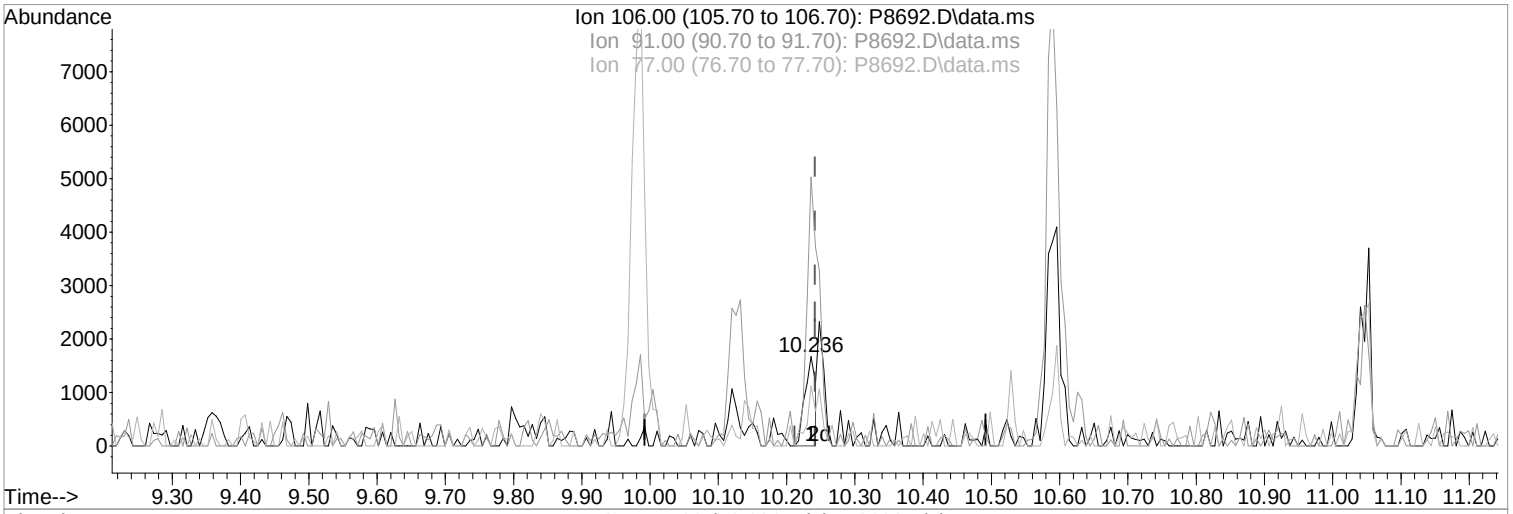
03/27/17

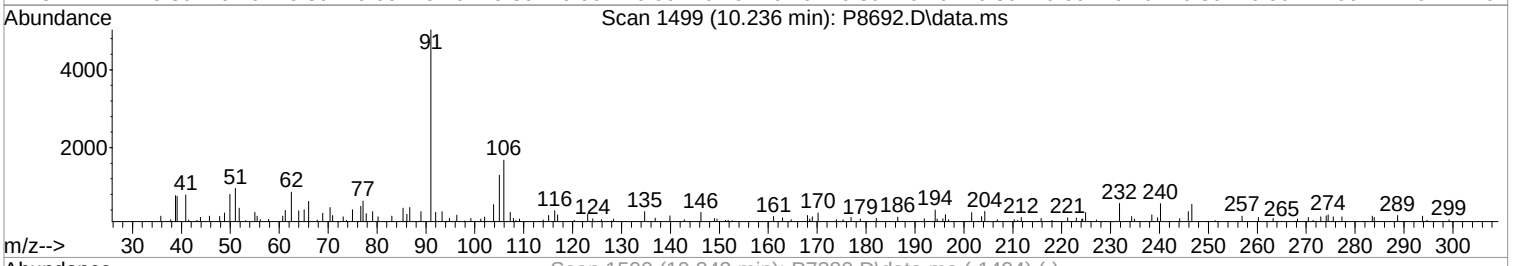
1st 03/27/17
2nd 03/28/17

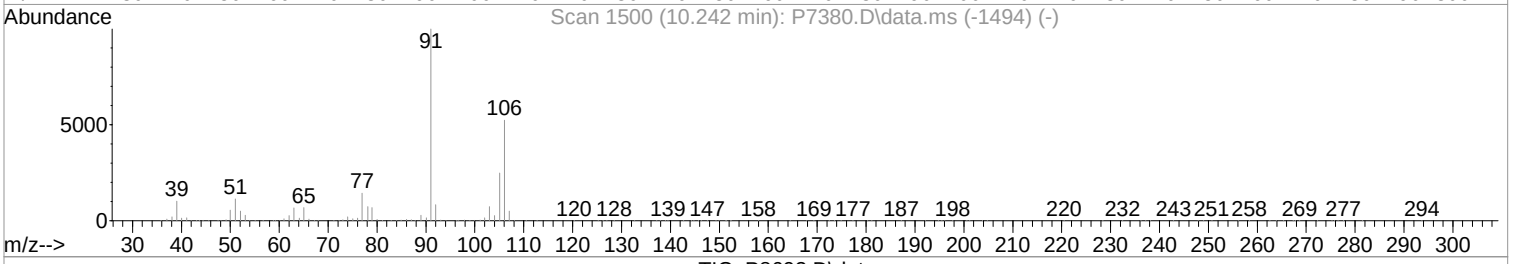
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 09:36:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8692.D\data.ms

(83) (m+p)Xylene (P)

10.236min (-0.006) 0.16 ppb

response 1808

Ion	Exp%	Act%
106.00	100	100
91.00	190.80	300.30#
77.00	27.30	66.93#
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 15:40:20 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

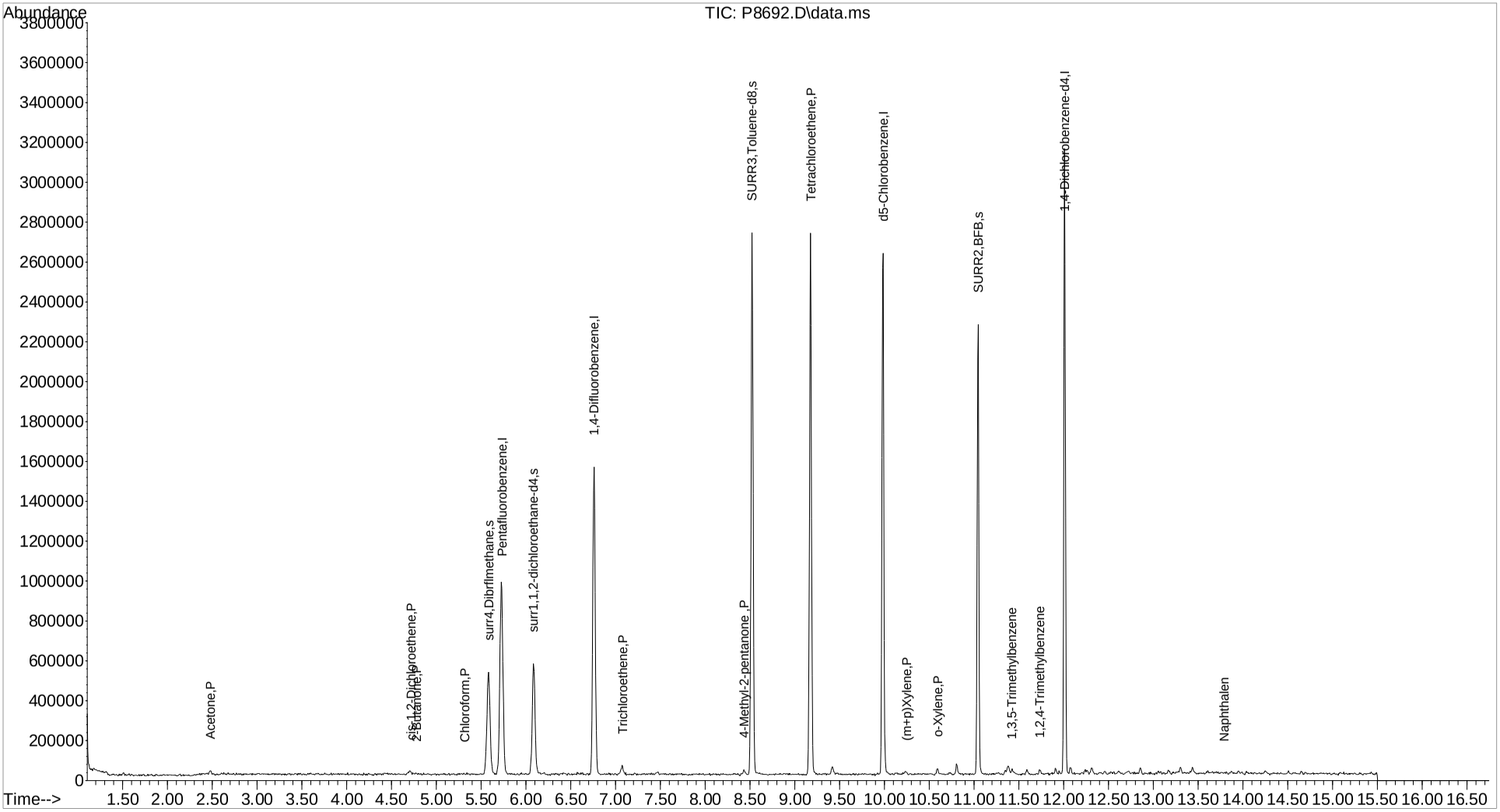
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	792854	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1277379	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1193817	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	599143	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	380078	55.14	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.28%				
48) surr1,1,2-dichloroetha...	6.084	65	437700	57.19	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 114.38%				
65) SURR3,Toluene-d8	8.523	98	1575071	55.27	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.54%				
70) SURR2,BFB	11.047	95	567384	51.38	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.76%				
Target Compounds							Qvalue
15) Acetone	2.475	43	17334	14.88	ppb		89
34) cis-1,2-Dichloroethene	4.719	96	10393m	1.50	ppb		
35) 2-Butanone	4.774	43	7481	4.37	ppb		76
40) Chloroform	5.316	83	3896m	0.37	ppb		
54) Trichloroethene	7.078	130	14747	2.24	ppb	#	83
64) 4-Methyl-2-pentanone	8.431	43	12790	3.18	ppb		91
72) Tetrachloroethene	9.175	164	513492	99.16	ppb		96
83) (m+p)Xylene	10.248	106	3313m	0.30	ppb		
84) o-Xylene	10.596	106	5676	0.52	ppb	#	66
99) 1,3,5-Trimethylbenzene	11.419	105	9385	0.44	ppb		77
101) 1,2,4-Trimethylbenzene	11.730	105	8380	0.38	ppb	#	67
117) Naphthalen	13.790	128	3299	0.23	ppb		84

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

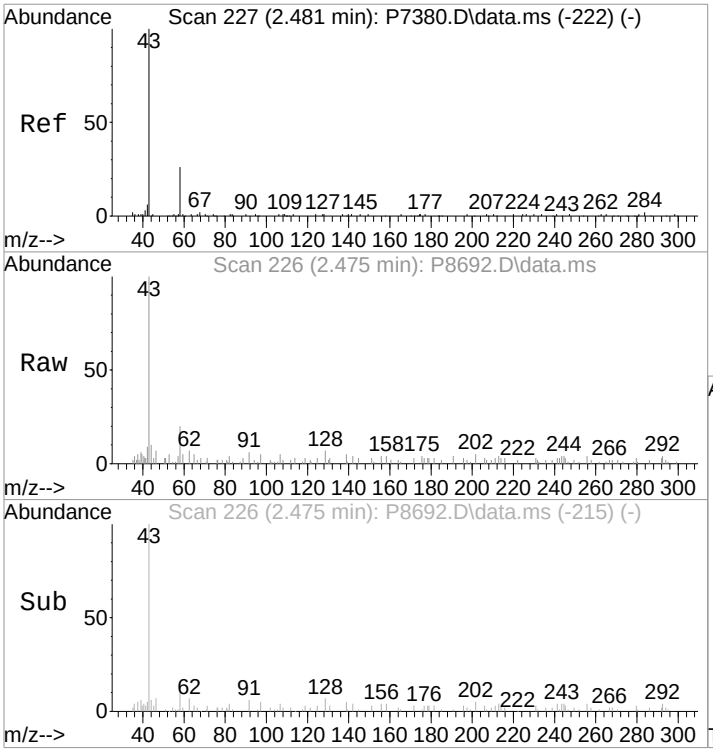
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8692.D
Acq On : 25 Mar 2017 4:43 am
Operator : K.Ruest
Sample : R1702492-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 27 15:40:20 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



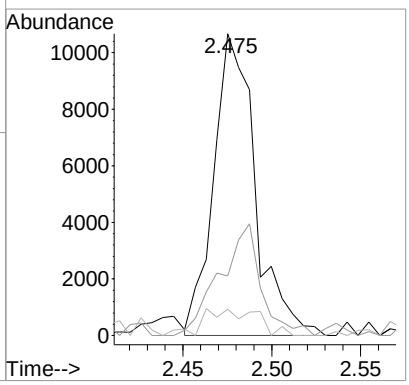
1st 03/27/17
2nd 03/28/17

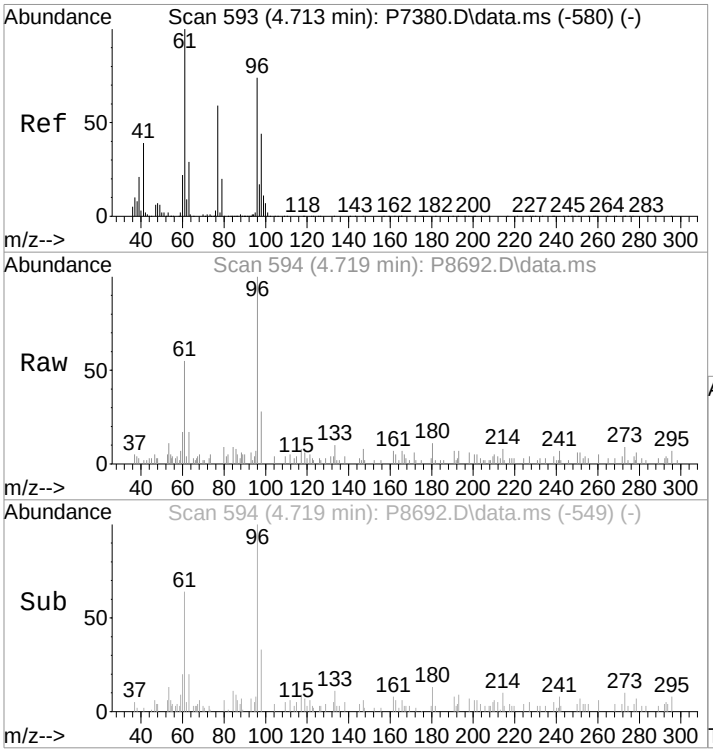


#15
Acetone
Concen: 14.88 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion: 43 Resp: 17334

Ion	Ratio	Lower	Upper
43	100		
58	19.8	6.2	46.2
42	8.8	0.0	26.9

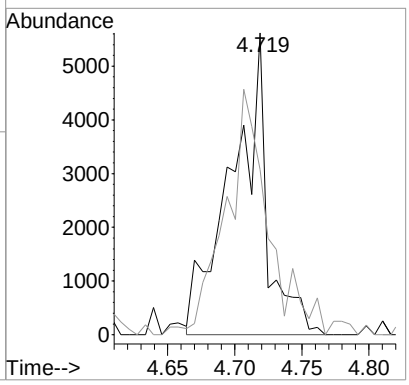


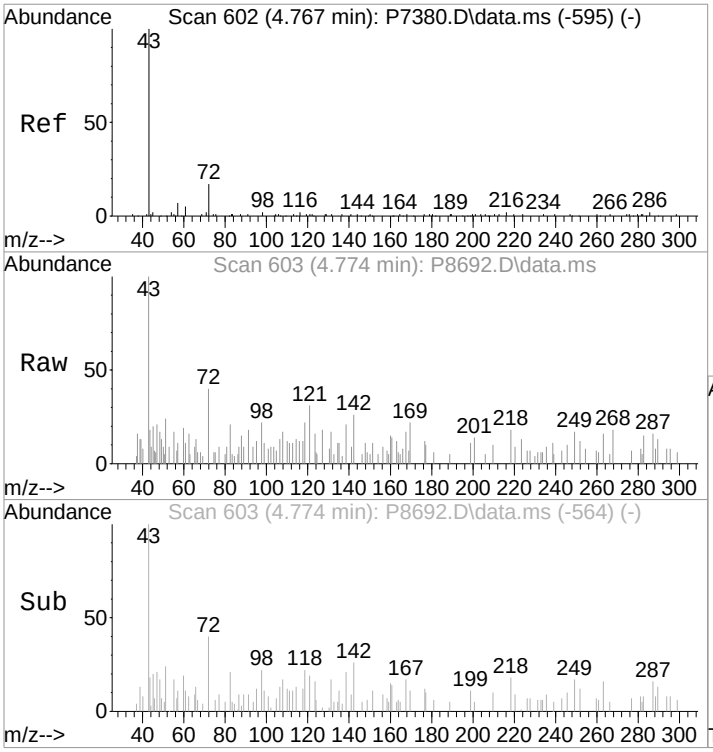


#34
cis-1,2-Dichloroethene
Concen: 1.50 ppb m
RT: 4.719 min Scan# 594
Delta R.T. 0.012 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion: 96 Resp: 10393

Ion	Ratio	Lower	Upper
96	100		
61	54.7	114.8	154.8#

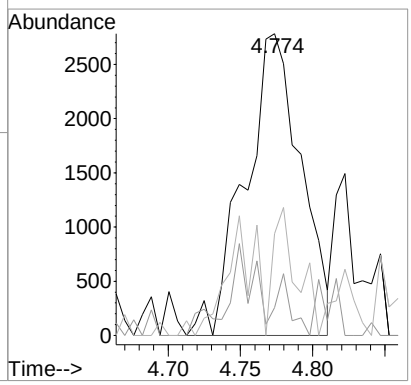


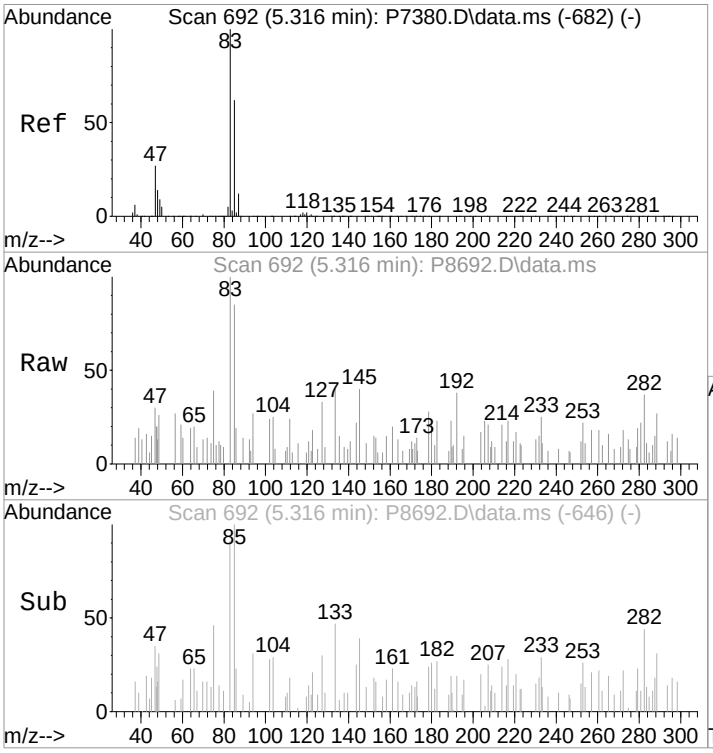


#35
2-Butanone
Concen: 4.37 ppb
RT: 4.774 min Scan# 603
Delta R.T. 0.012 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion: 43 Resp: 7481

Ion	Ratio	Lower	Upper
43	100		
57	9.3	0.0	26.7
72	33.7	0.1	40.1

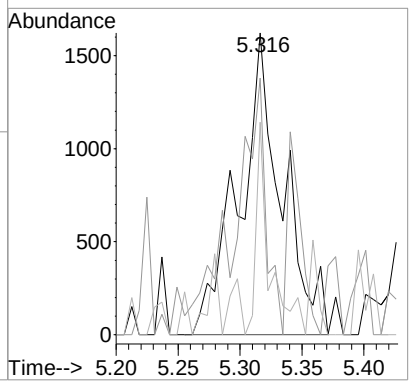


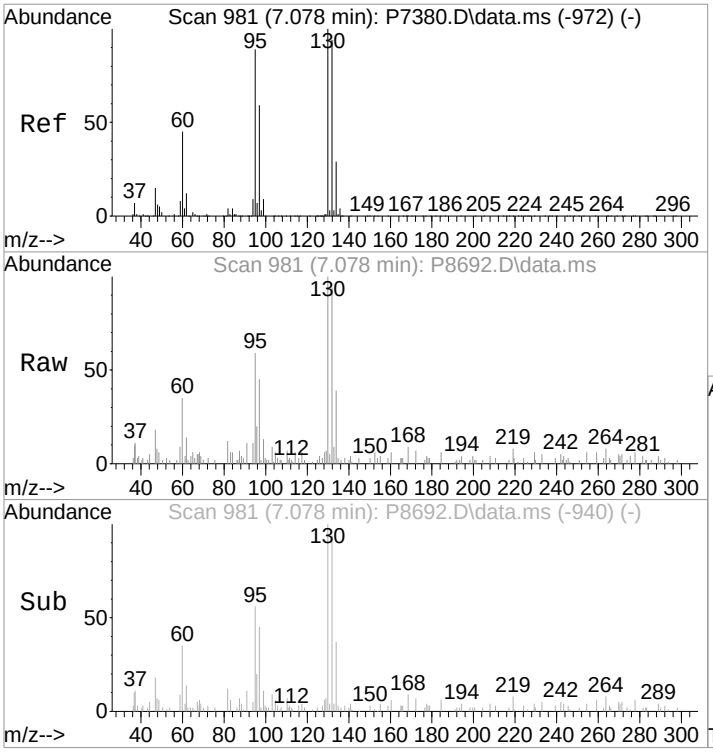


#40
Chloroform
Concen: 0.37 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.006 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion: 83 Resp: 3896

Ion	Ratio	Lower	Upper
83	100		
85	85.0	42.3	82.3#
47	29.5	6.9	46.9

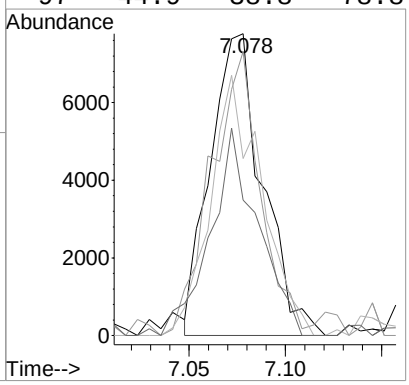


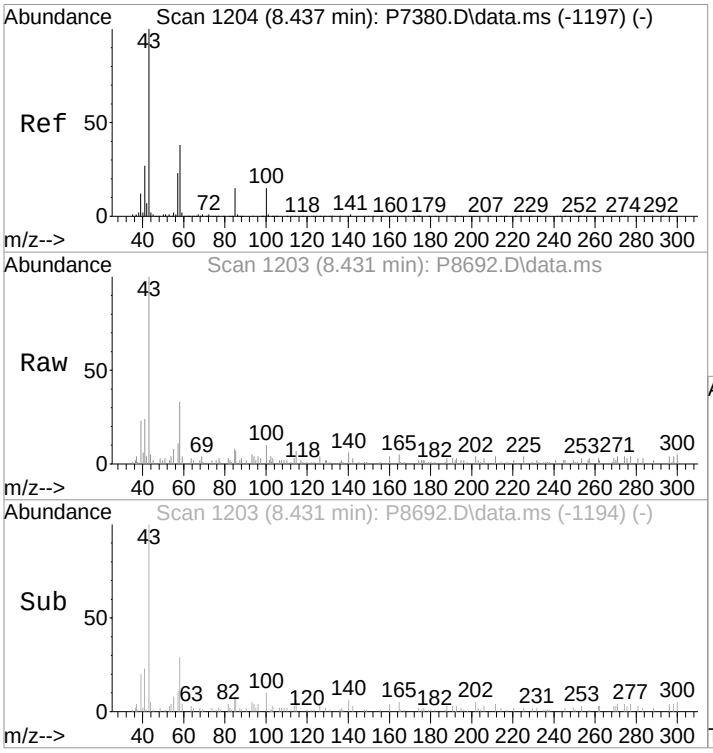


#54
Trichloroethene
Concen: 2.24 ppb
RT: 7.078 min Scan# 981
Delta R.T. 0.000 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion:130 Resp: 14747

Ion	Ratio	Lower	Upper
130	100		
132	94.0	74.2	114.2
95	58.6	69.4	109.4#
97	44.9	38.8	78.8

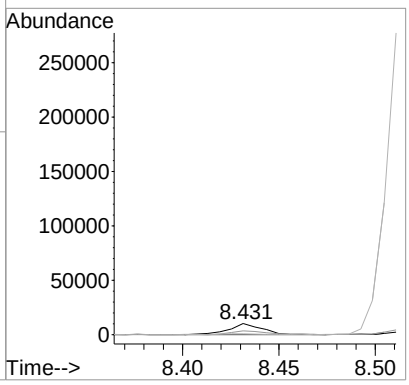


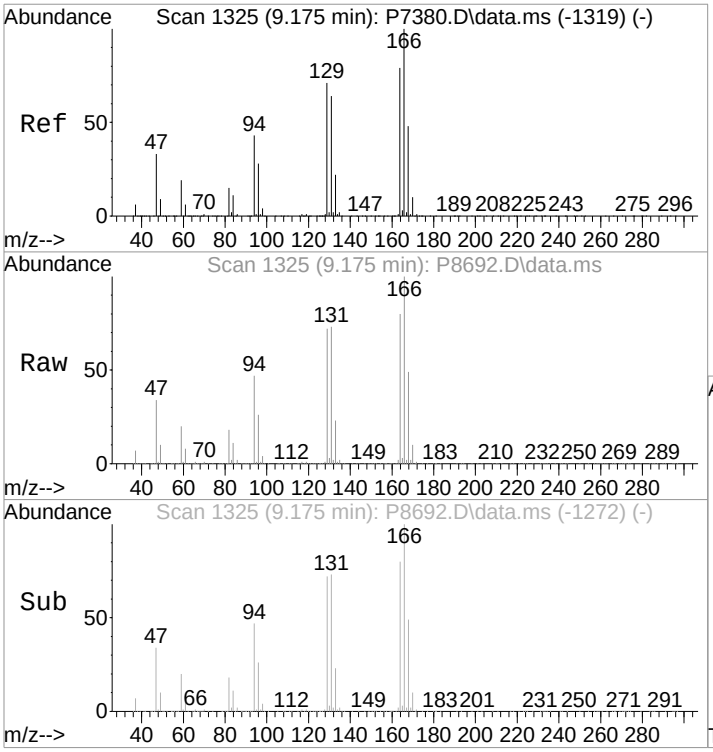


#64
4-Methyl-2-pentanone
Concen: 3.18 ppb
RT: 8.431 min Scan# 1203
Delta R.T. -0.006 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion: 43 Resp: 12790

Ion	Ratio	Lower	Upper
43	100		
58	33.4	18.3	58.3
100	9.8	0.0	34.7

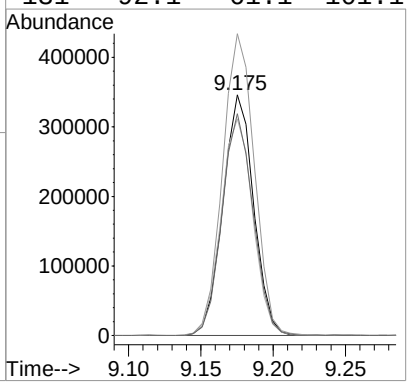


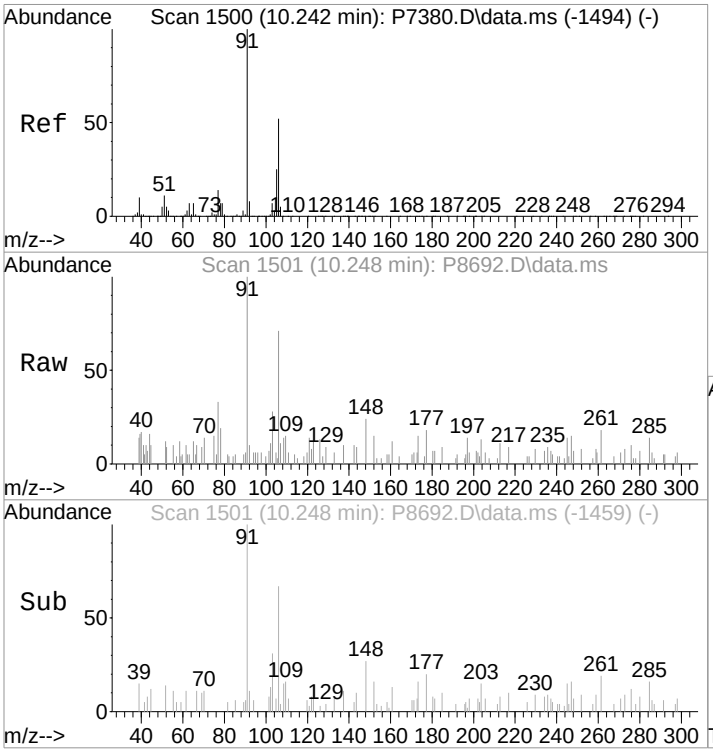


#72
Tetrachloroethene
Concen: 99.16 ppb
RT: 9.175 min Scan# 1325
Delta R.T. -0.006 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion:164 Resp: 513492

Ion	Ratio	Lower	Upper
164	100		
166	125.4	106.8	146.8
129	90.0	69.7	109.7
131	92.1	61.1	101.1

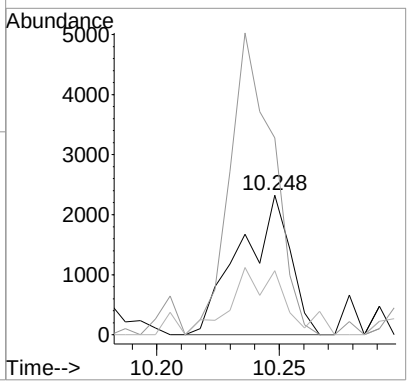


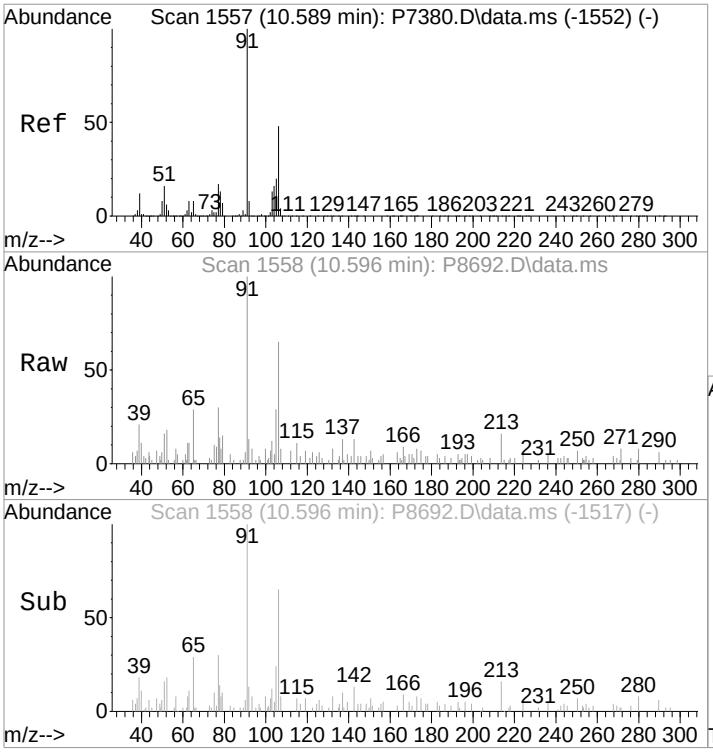


#83
(m+p)Xylene
Concen: 0.30 ppb m
RT: 10.248 min Scan# 1501
Delta R.T. 0.006 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion:106 Resp: 3313

Ion	Ratio	Lower	Upper
106	100		
91	141.0	170.8	210.8#
77	46.0	7.3	47.3

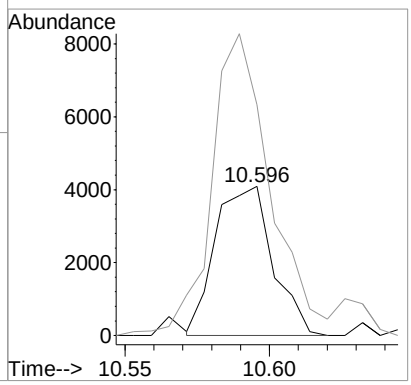


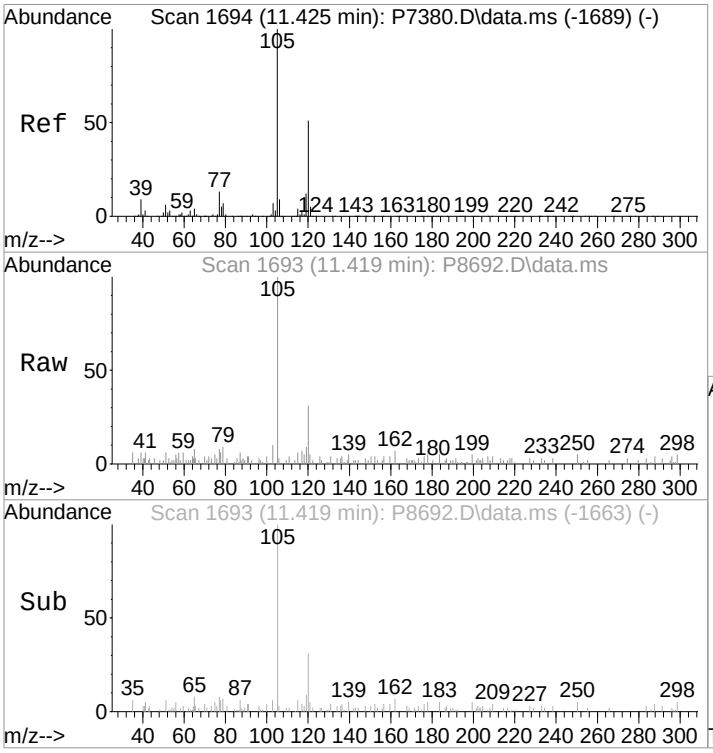


#84
o-Xylene
Concen: 0.52 ppb
RT: 10.596 min Scan# 1558
Delta R.T. 0.000 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion:106 Resp: 5676

Ion	Ratio	Lower	Upper
106	100		
91	154.6	188.2	228.2#

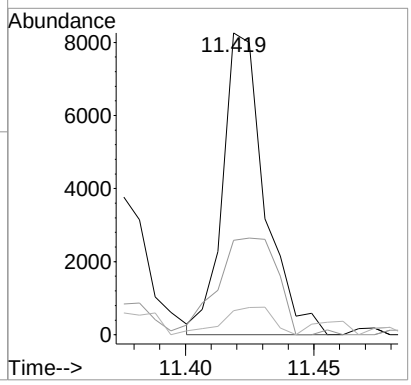


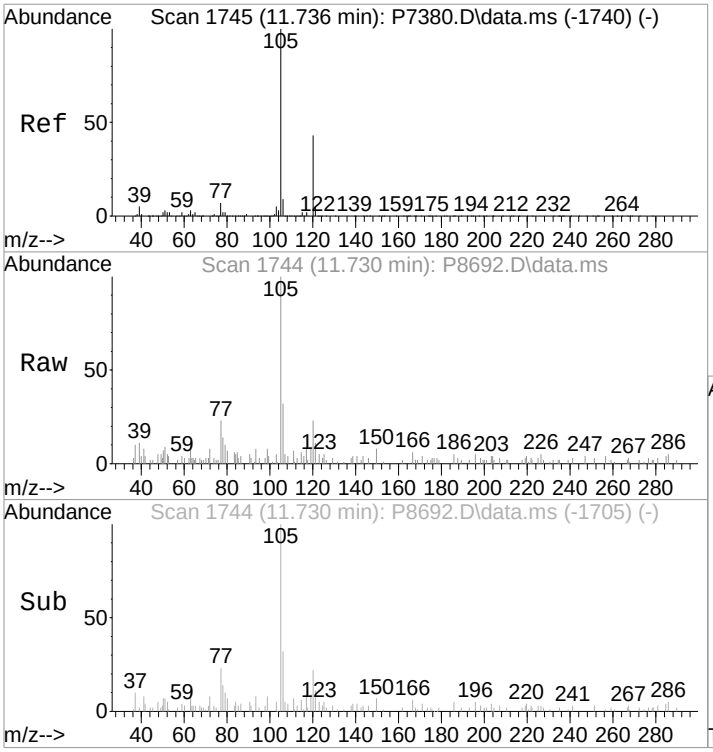


#99
1,3,5-Trimethylbenzene
Concen: 0.44 ppb
RT: 11.419 min Scan# 1693
Delta R.T. -0.012 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion:105 Resp: 9385

Ion	Ratio	Lower	Upper
105	100		
120	31.3	30.9	70.9
77	13.6	0.0	33.3

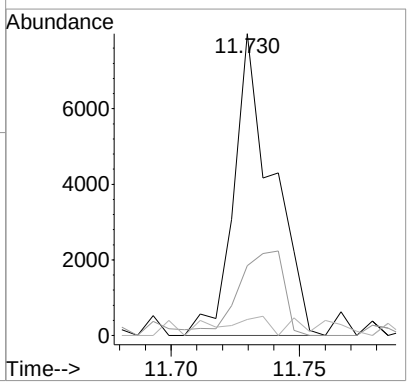


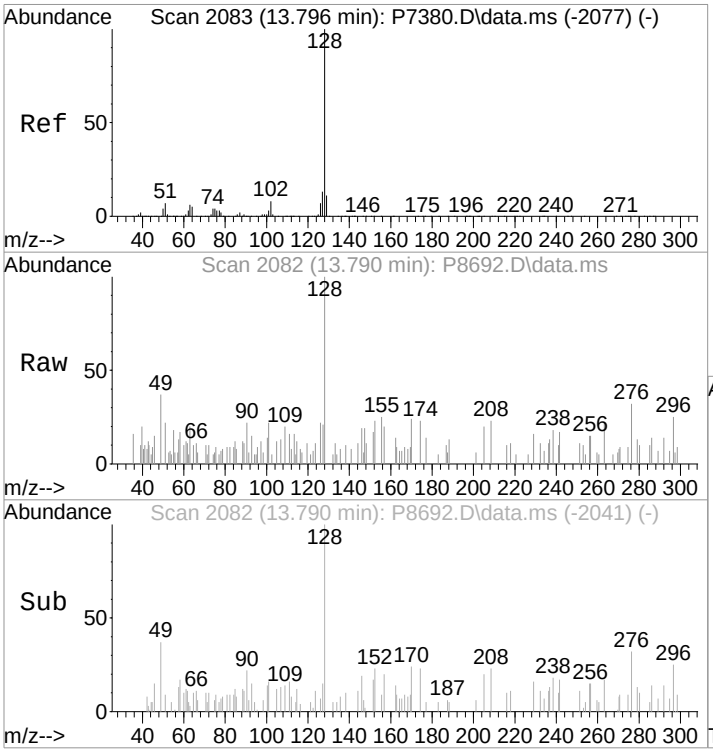


#101
1,2,4-Trimethylbenzene
Concen: 0.38 ppb
RT: 11.730 min Scan# 1744
Delta R.T. -0.006 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion:105 Resp: 8380

Ion	Ratio	Lower	Upper
105	100		
120	23.2	27.8	67.8#
65	5.3	0.0	24.7

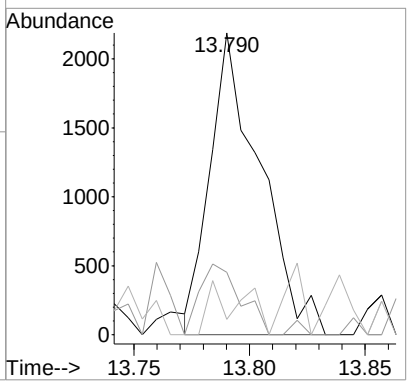




#117
Naphthalen
Concen: 0.23 ppb
RT: 13.790 min Scan# 2082
Delta R.T. -0.006 min
Lab File: P8692.D
Acq: 25 Mar 2017 4:43 am

Tgt Ion:128 Resp: 3299

Ion	Ratio	Lower	Upper
128	100		
127	20.7	0.0	32.8
102	5.1	0.0	28.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8689.D
Acq On : 25 Mar 2017 3:13 am
Operator : K.Ruest
Sample : R1702492-017|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 27 12:20:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

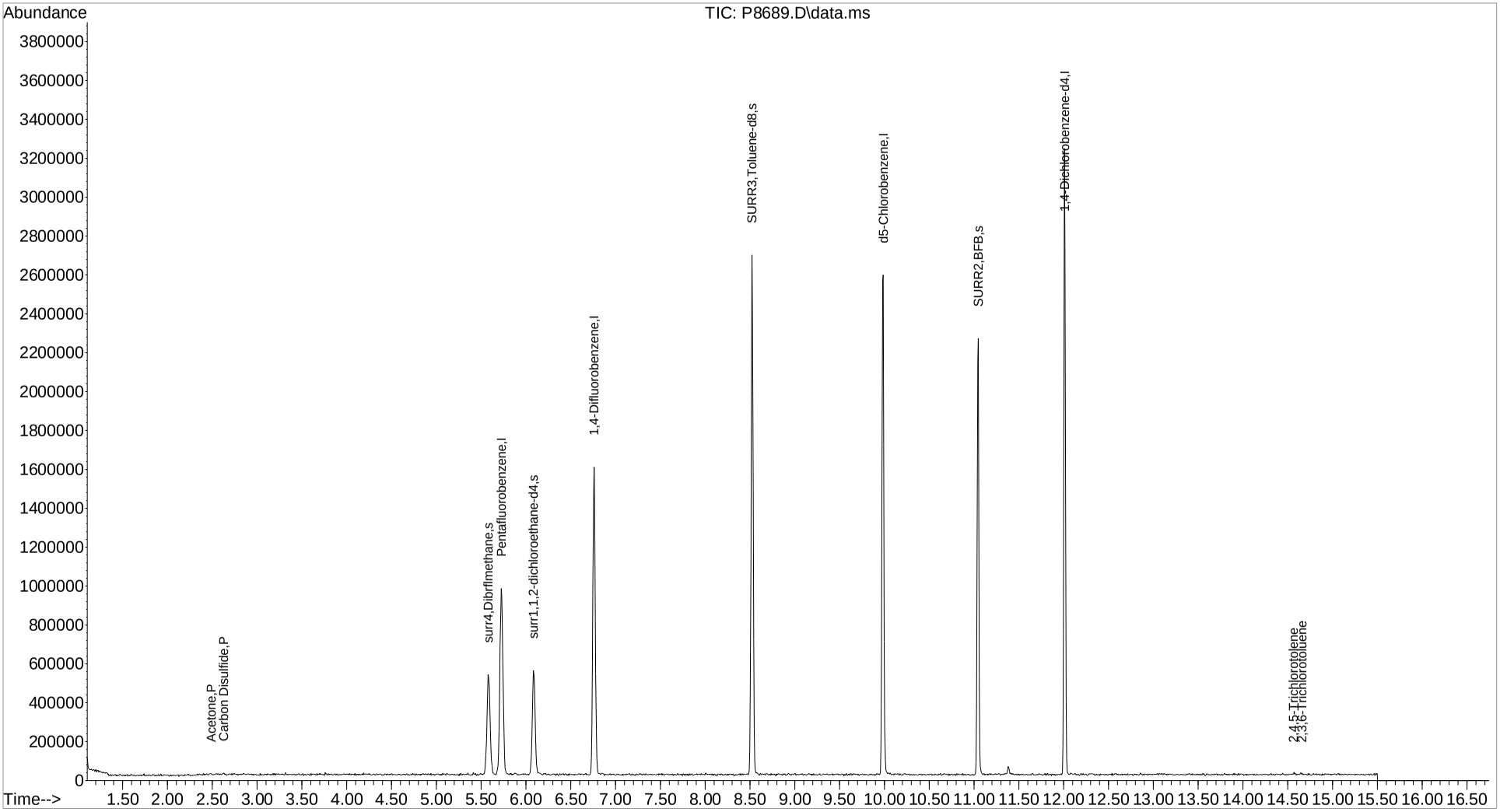
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.725	168	797771	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1276997	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1184292	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	603747	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.578	113	374966	54.42	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.84%				
48) surr1,1,2-dichloroetha...	6.084	65	426734	55.78	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.56%				
65) SURR3,Toluene-d8	8.523	98	1565895	54.96	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.92%				
70) SURR2,BFB	11.047	95	561809	50.89	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.78%				
Target Compounds							Qvalue
15) Acetone	2.487	43	4025	3.43	ppb		67
18) Carbon Disulfide	2.628	76	5729	0.33	ppb		86
119) 2,4,5-Trichlorotolene	14.558	159	1679	0.33	ppb	#	48
120) 2,3,6-Trichlorotoluene	14.656	159	2182	0.52	ppb		95

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

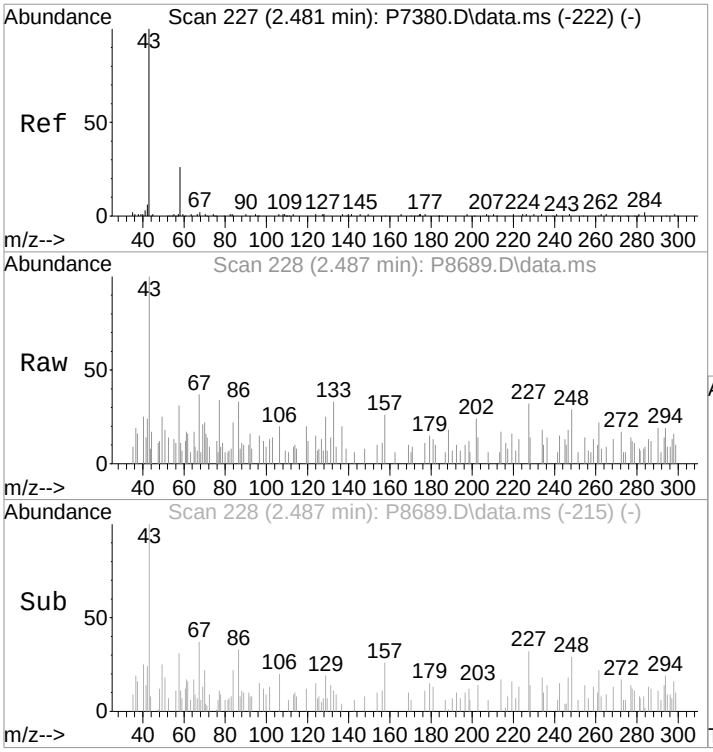
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8689.D
Acq On : 25 Mar 2017 3:13 am
Operator : K.Ruest
Sample : R1702492-017|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 27 12:20:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



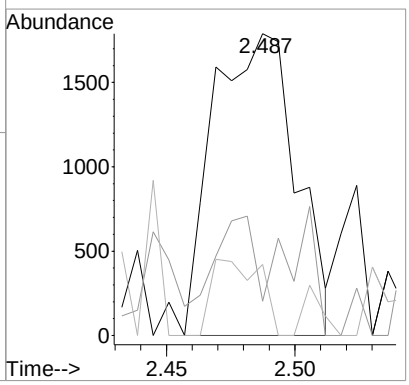
1st 03/27/17
2nd 03/28/17

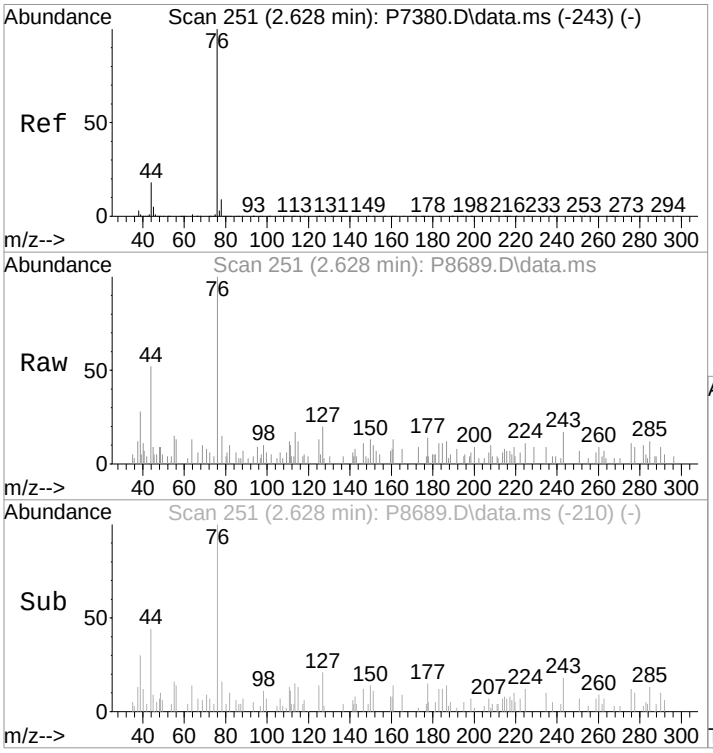


#15
Acetone
Concen: 3.43 ppb
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P8689.D
Acq: 25 Mar 2017 3:13 am

Tgt Ion: 43 Resp: 4025

Ion	Ratio	Lower	Upper
43	100		
58	10.6	6.2	46.2
42	21.9	0.0	26.9

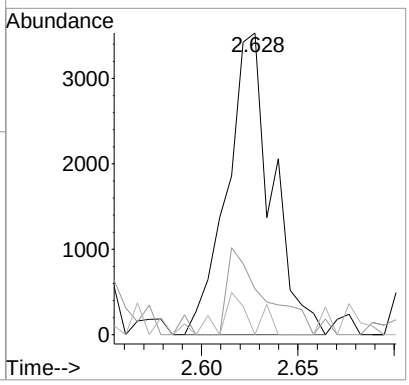


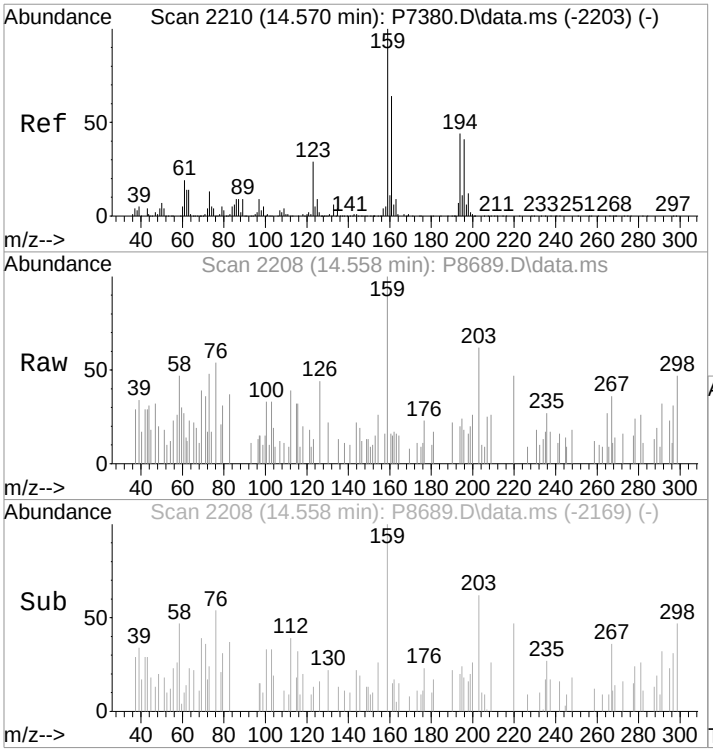


#18
Carbon Disulfide
Concen: 0.33 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P8689.D
Acq: 25 Mar 2017 3:13 am

Tgt Ion: 76 Resp: 5729

Ion	Ratio	Lower	Upper
76	100		
78	15.1	0.0	29.5
77	0.0	0.0	22.7

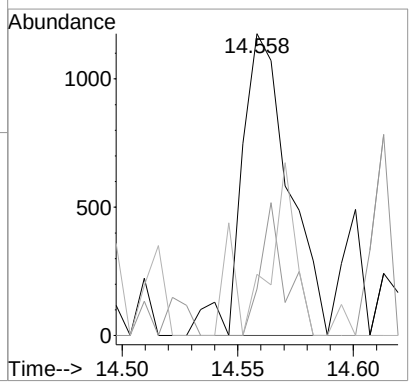


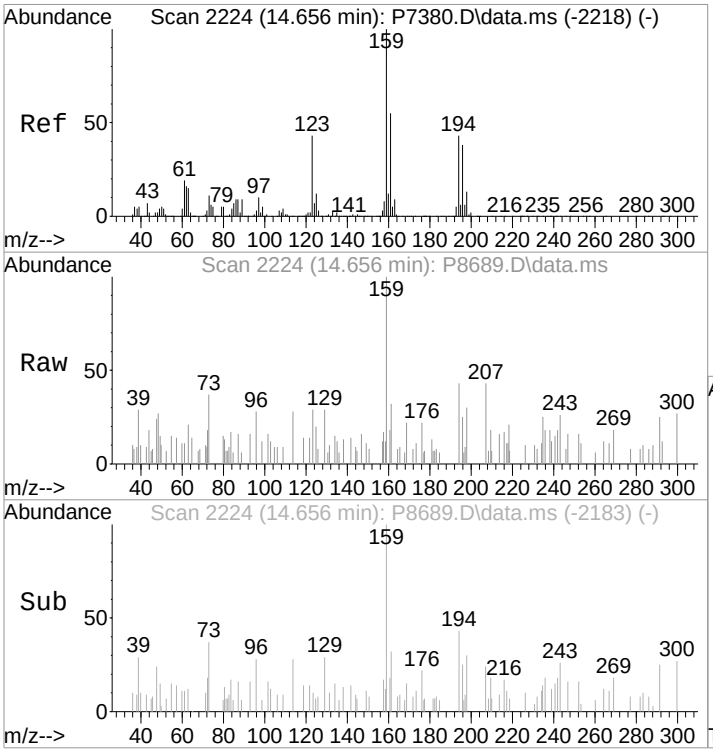


#119
2,4,5-Trichlorotolene
Concen: 0.33 ppb
RT: 14.558 min Scan# 2208
Delta R.T. -0.012 min
Lab File: P8689.D
Acq: 25 Mar 2017 3:13 am

Tgt Ion:159 Resp: 1679

Ion	Ratio	Lower	Upper
159	100		
161	15.4	51.0	76.4#
194	20.3	35.4	53.2#

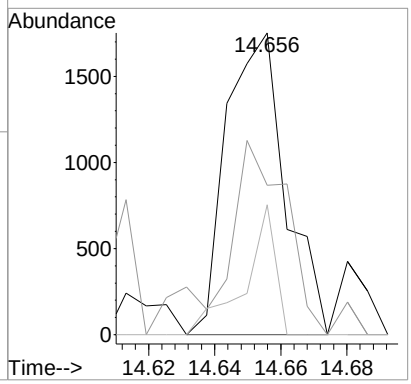




#120
2,3,6-Trichlorotoluene
Concen: 0.52 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P8689.D
Acq: 25 Mar 2017 3:13 am

Tgt Ion:159 Resp: 2182

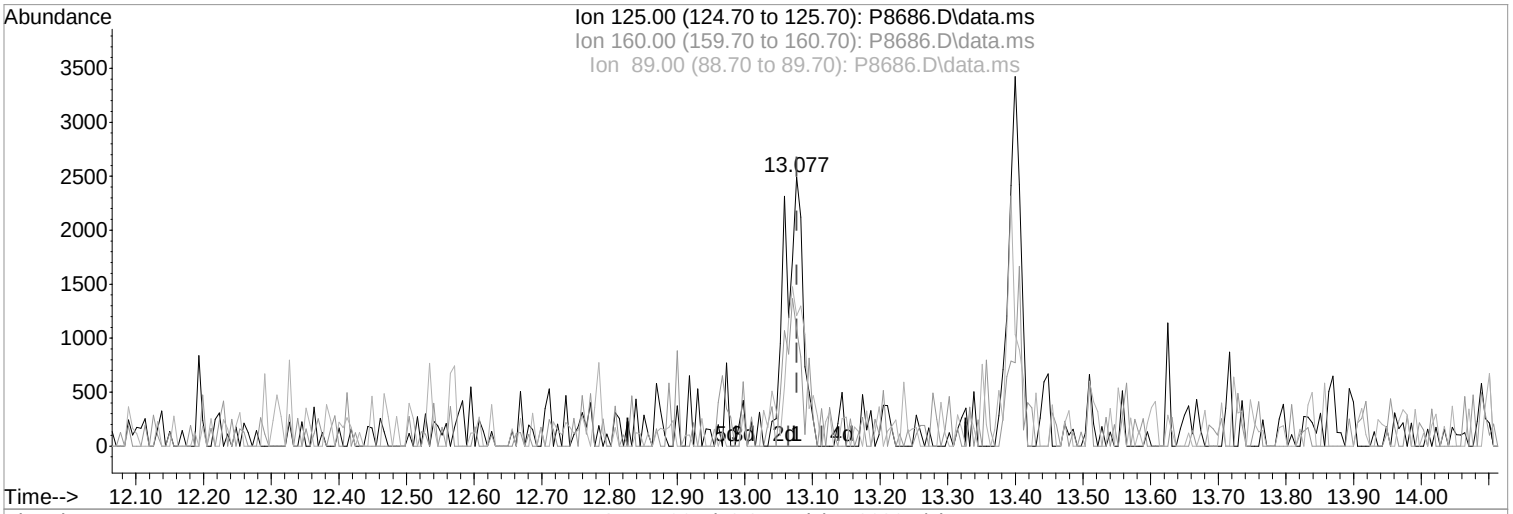
Ion	Ratio	Lower	Upper
159	100		
161	49.5	44.3	66.5
194	43.0	34.8	52.2



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(112) Trielution Dichlorotoluene

13.077min (+0.000) 0.45 ppb m

response 4663

Ion	Exp%	Act%
125.00	100	100
160.00	43.20	43.54
89.00	35.00	48.48#
0.00	0.00	0.00

Manual Integration:

After

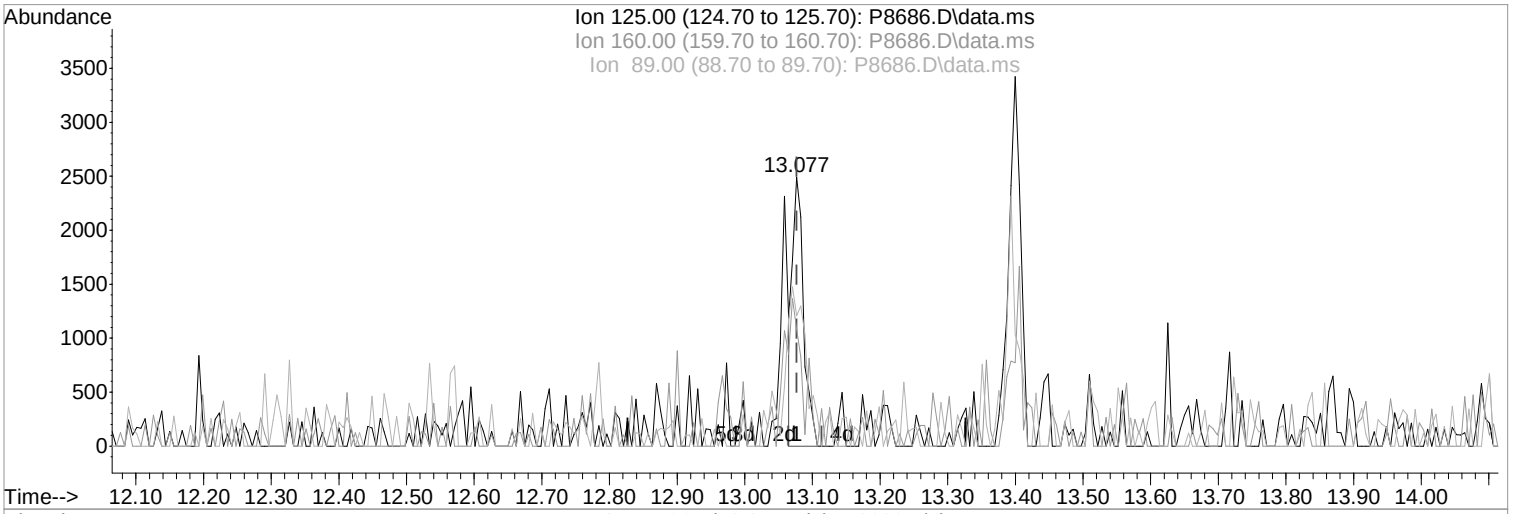
Split Peak

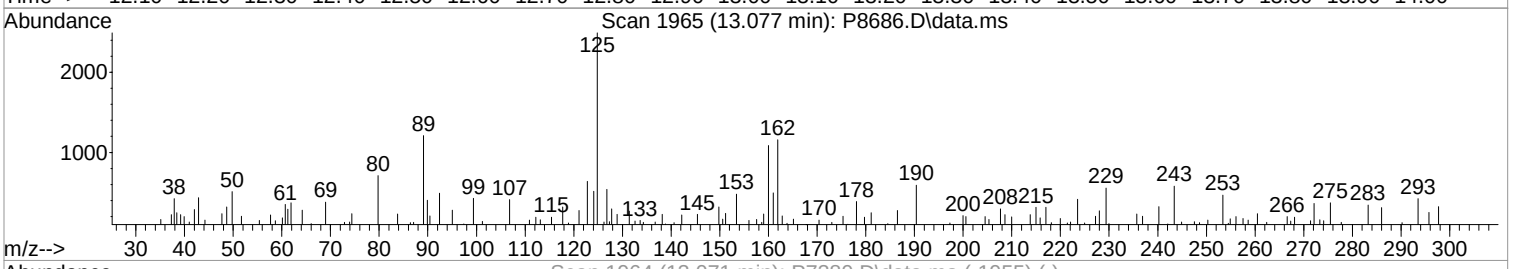
03/27/17

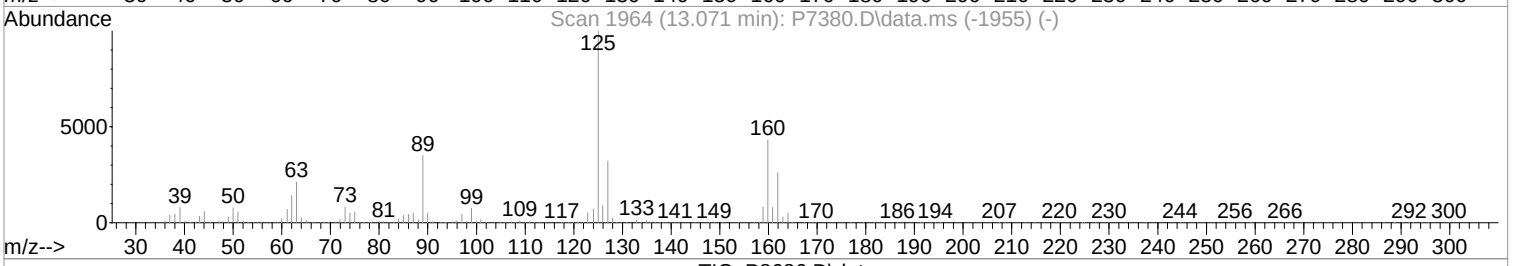
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8686.D\data.ms

(112) Trielution Dichlorotoluene

13.077min (+0.000) 0.28 ppb

response 2858

Ion	Exp%	Act%
125.00	100	100
160.00	43.20	43.54
89.00	35.00	48.48#
0.00	0.00	0.00

Manual Integration:

Before

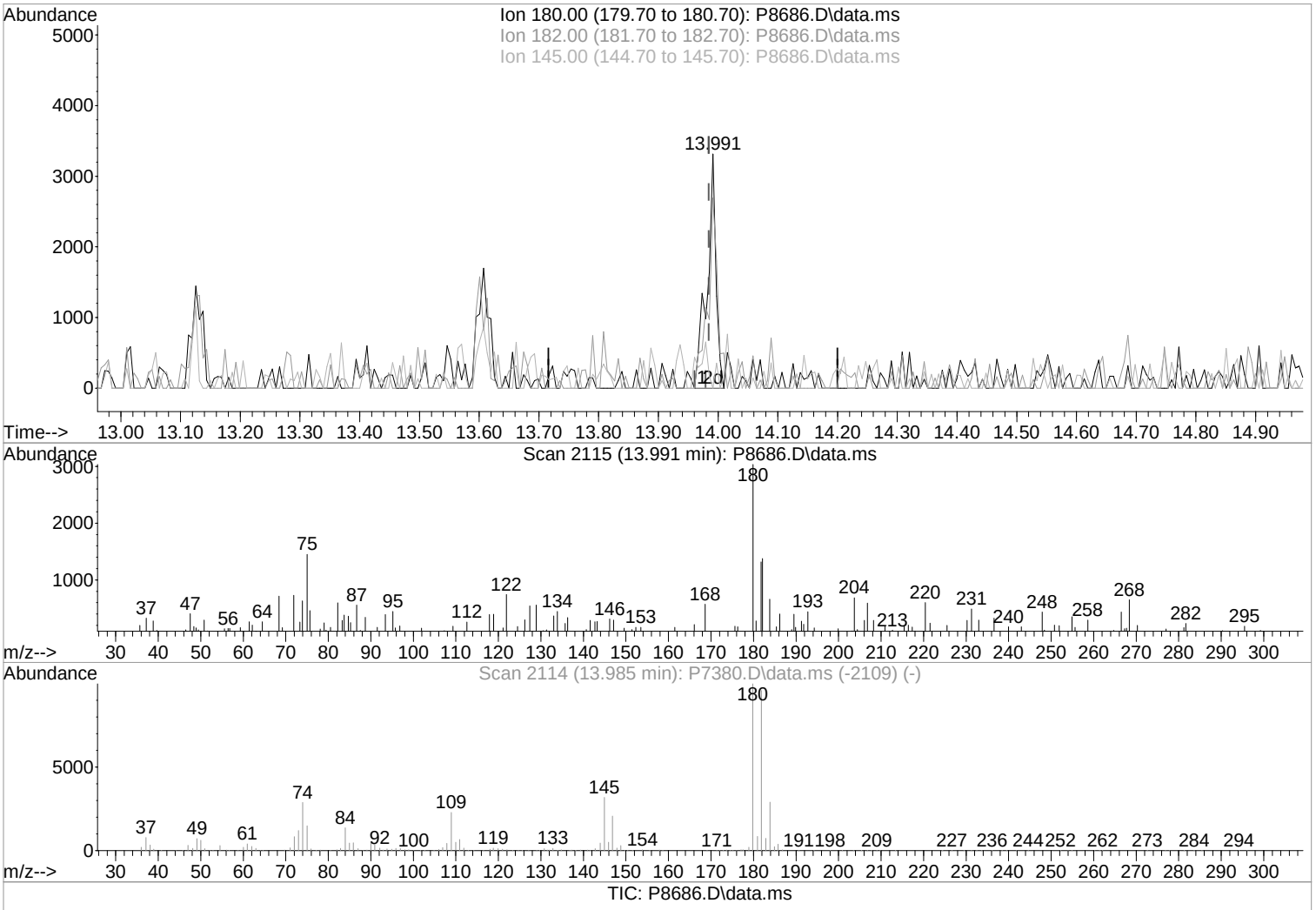
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(118) 1,2,3-Tclbenzene

13.991min (+0.006) 0.53 ppb m

response 3463

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	45.30#
145.00	31.80	0.00#
0.00	0.00	0.00

Manual Integration:

After

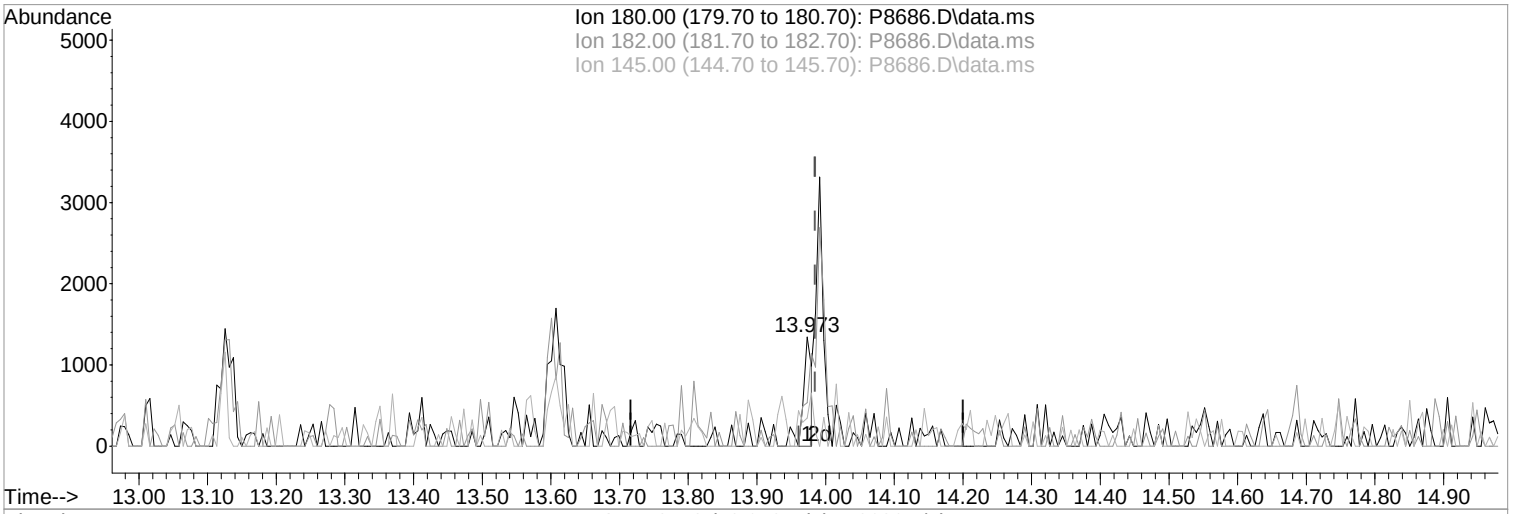
Split Peak

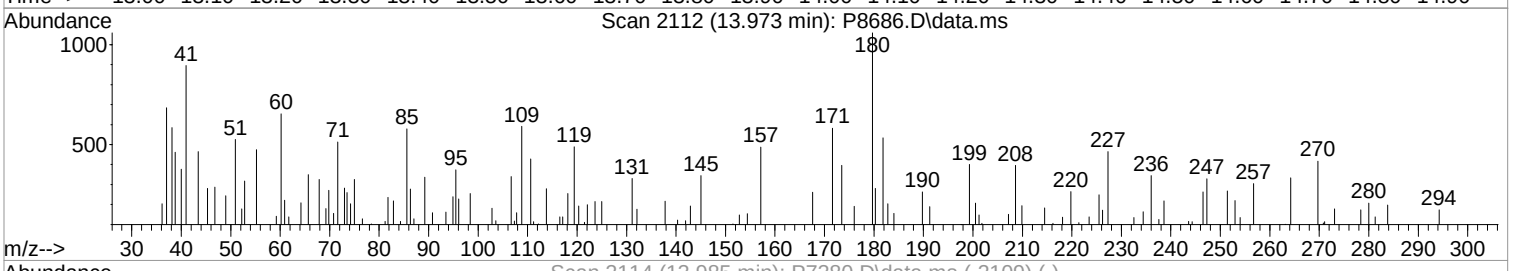
03/27/17

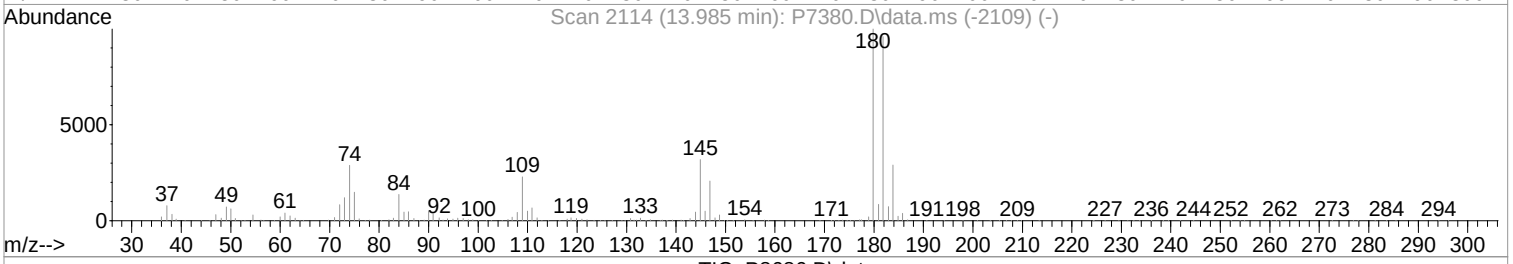
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8686.D\data.ms

(118) 1,2,3-Tclbenzene

13.973min (-0.012) 0.16 ppb

response 1031

Ion	Exp%	Act%
180.00	100	100
182.00	95.90	39.75#
145.00	31.80	25.65
0.00	0.00	0.00

Manual Integration:

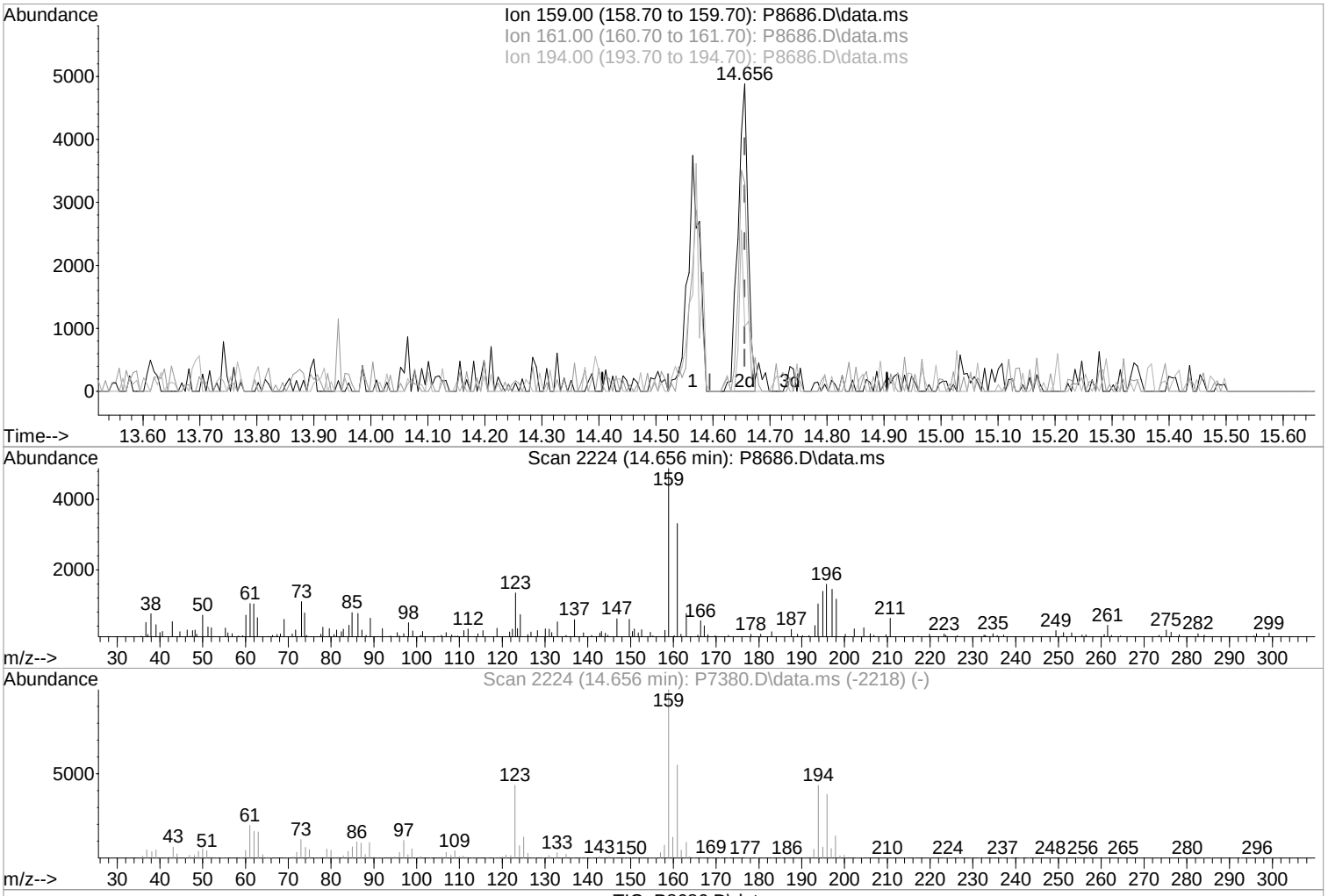
Before

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.656min (+0.000) 1.43 ppb m

response 6072

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	67.80#
194.00	43.50	21.11#
0.00	0.00	0.00

Manual Integration:

After

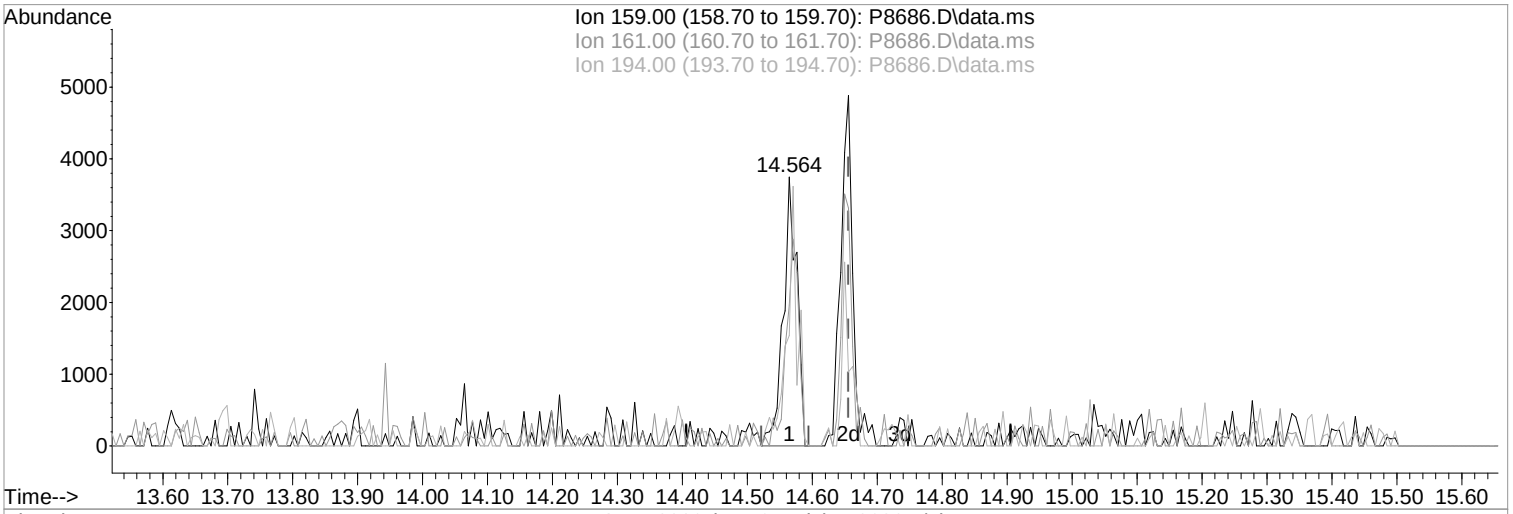
Wrong peak selected.

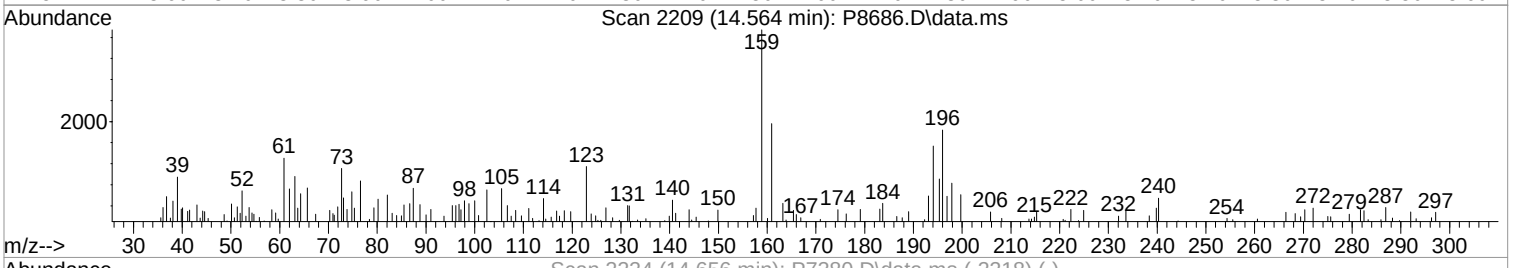
03/27/17

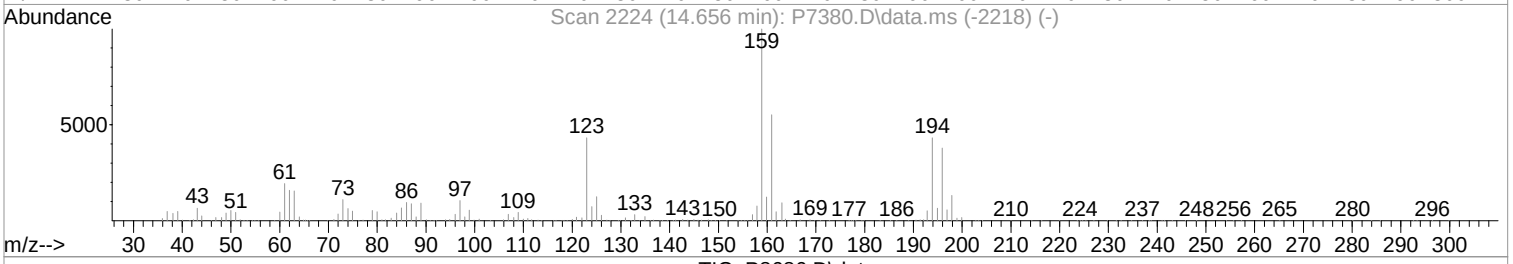
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8686.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.564min (-0.091) 1.29 ppb

response 5458

Ion	Exp%	Act%
159.00	100	100
161.00	55.40	52.42
194.00	43.50	41.05
0.00	0.00	0.00

Manual Integration:

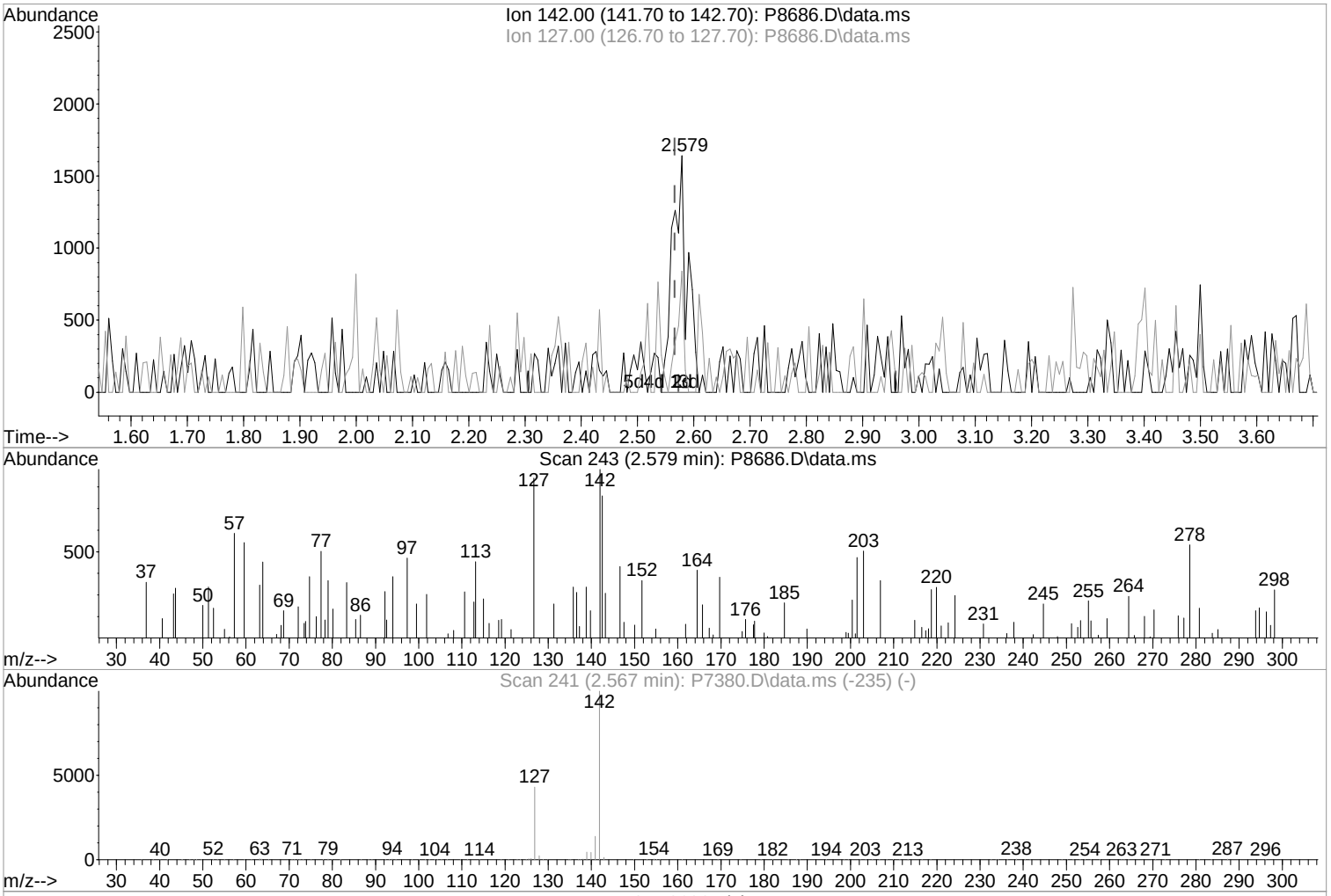
Before

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(17) Iodomethane

2.579min (+0.012) 0.36 ppb m

response 2954

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	95.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

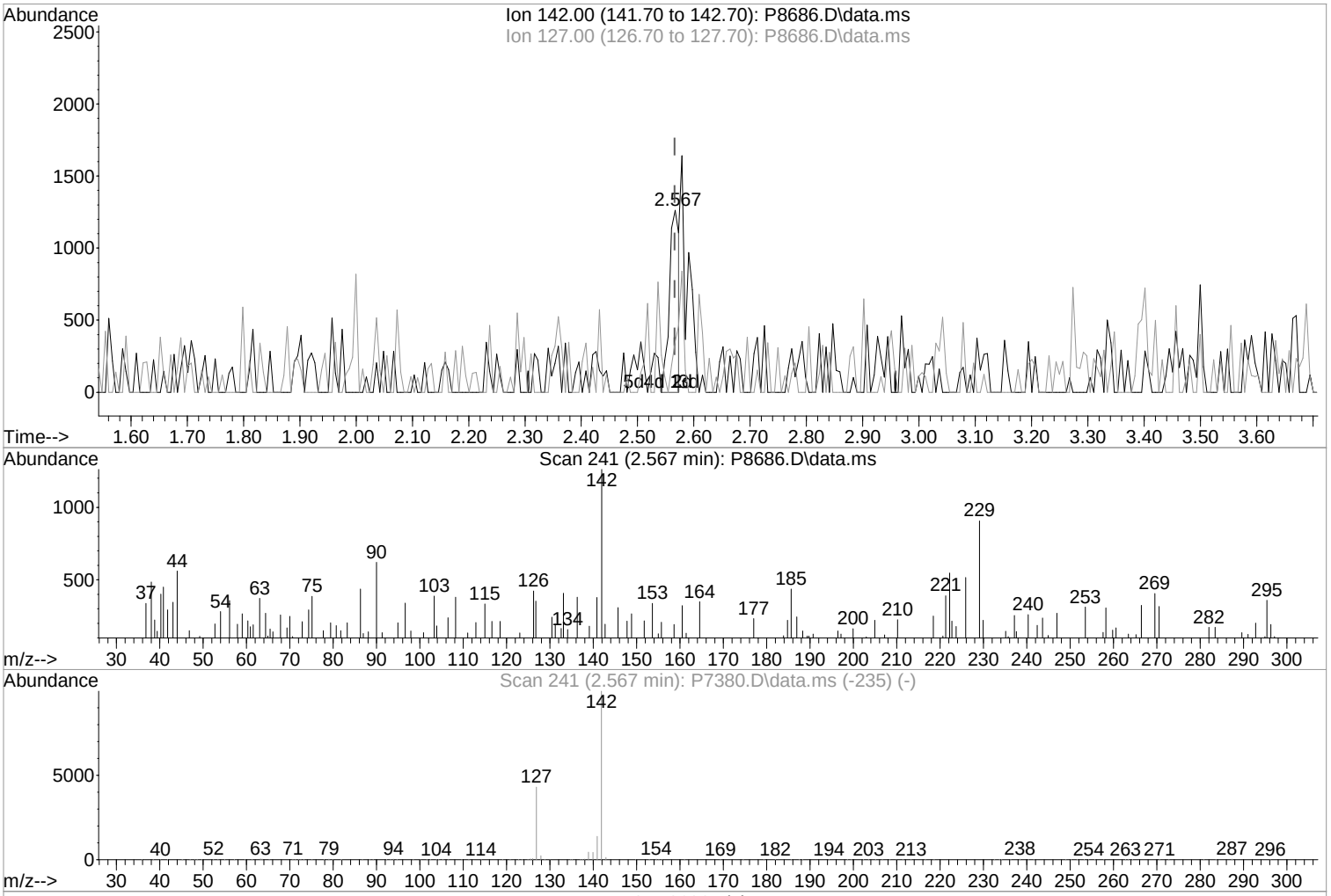
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 09:30:43 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8686.D\data.ms

(17) Iodomethane

2.567min (+0.000) 0.18 ppb

response 1505

Ion	Exp%	Act%
142.00	100	100
127.00	43.10	24.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 12:11:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

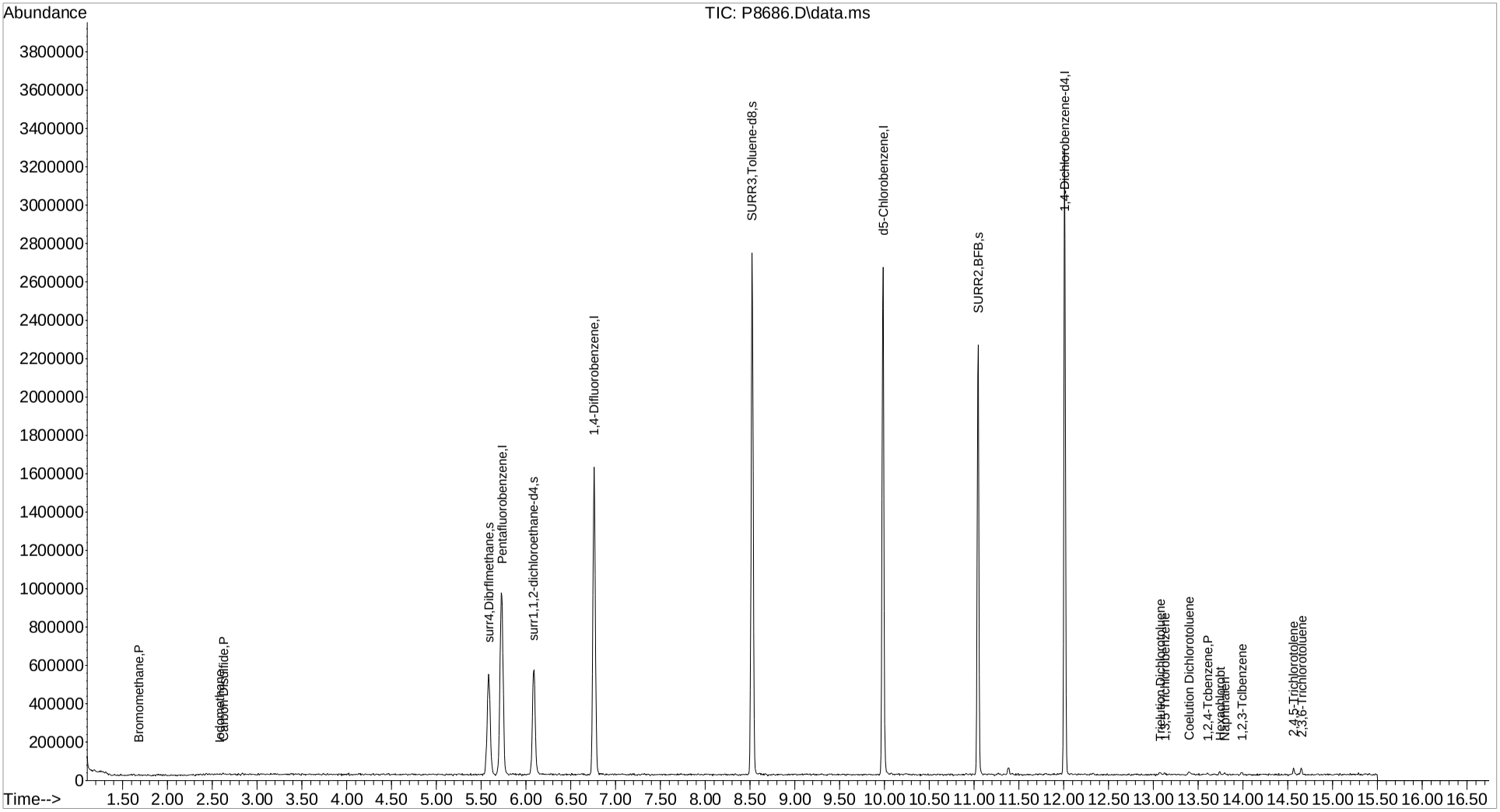
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	797418	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1289089	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1199107	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	605271	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	376342	54.10	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.20%				
48) surr1,1,2-dichloroetha...	6.084	65	442106	57.24	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 114.48%				
65) SURR3,Toluene-d8	8.523	98	1593550	55.41	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.82%				
70) SURR2,BFB	11.047	95	560439	50.29	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.58%				
Target Compounds							Qvalue
5) Bromomethane	1.683	94	955	0.25	ppb	#	51
17) Iodomethane	2.579	142	2954m	0.36	ppb		
18) Carbon Disulfide	2.622	76	4516	0.26	ppb		75
112) Trielution Dichlorotol...	13.077	125	4663m	0.45	ppb		
113) 1,3,5 Trichlorobenzene	13.126	180	1858	0.20	ppb	#	72
114) Coelution Dichlorotoluene	13.400	125	4236	0.38	ppb	#	83
115) 1,2,4-Tcbenzene	13.607	180	2211	0.28	ppb	#	56
116) Hexachlorobt	13.747	225	1832	0.50	ppb	#	57
117) Naphthalen	13.796	128	4247	0.29	ppb		86
118) 1,2,3-Tclbenzene	13.991	180	3463m	0.53	ppb		
119) 2,4,5-Trichlorotolene	14.564	159	5458	1.07	ppb		89
120) 2,3,6-Trichlorotoluene	14.656	159	6072m	1.43	ppb		

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

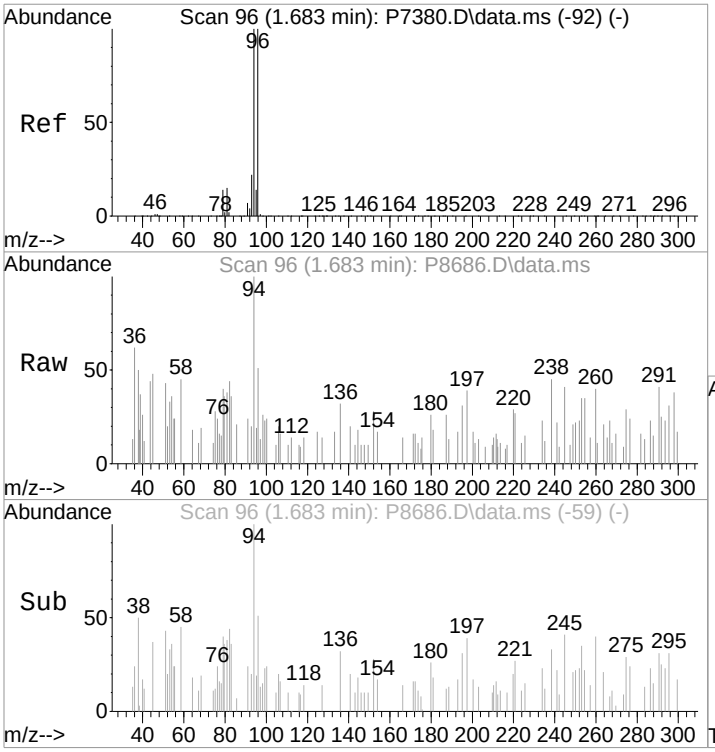
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8686.D
Acq On : 25 Mar 2017 1:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 12:11:14 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



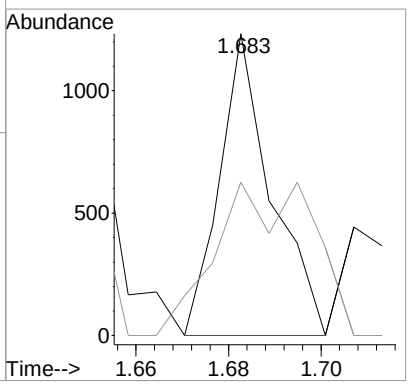
1st 03/27/17
2nd 03/28/17

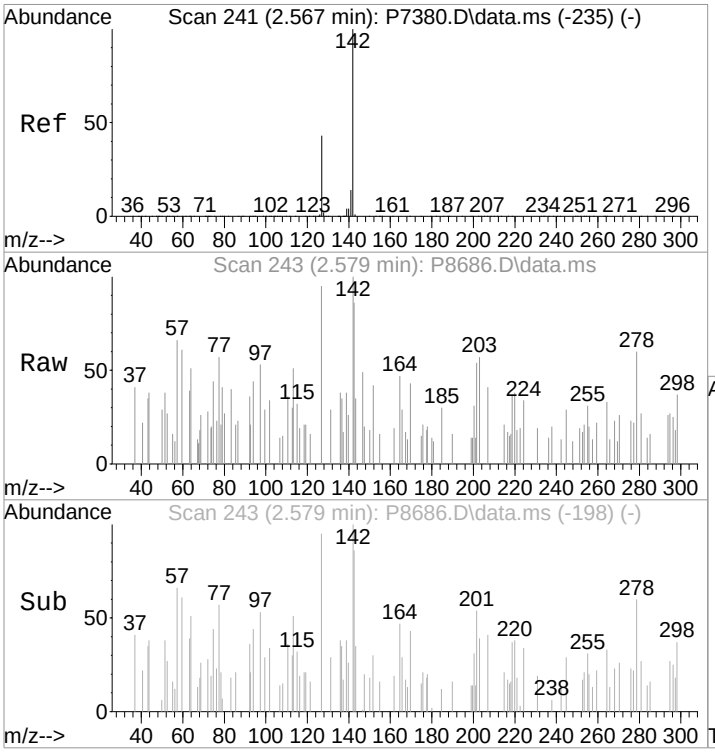


#5
Bromomethane
Concen: 0.25 ppb
RT: 1.683 min Scan# 96
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion: 94 Resp: 955

Ion	Ratio	Lower	Upper
94	100		
96	50.8	79.4	119.4#

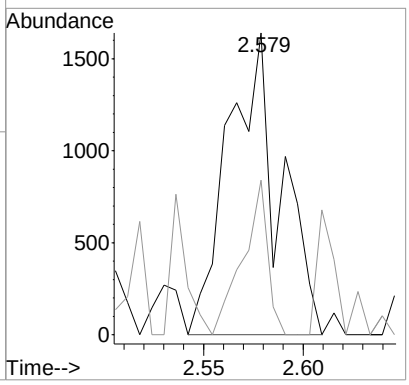


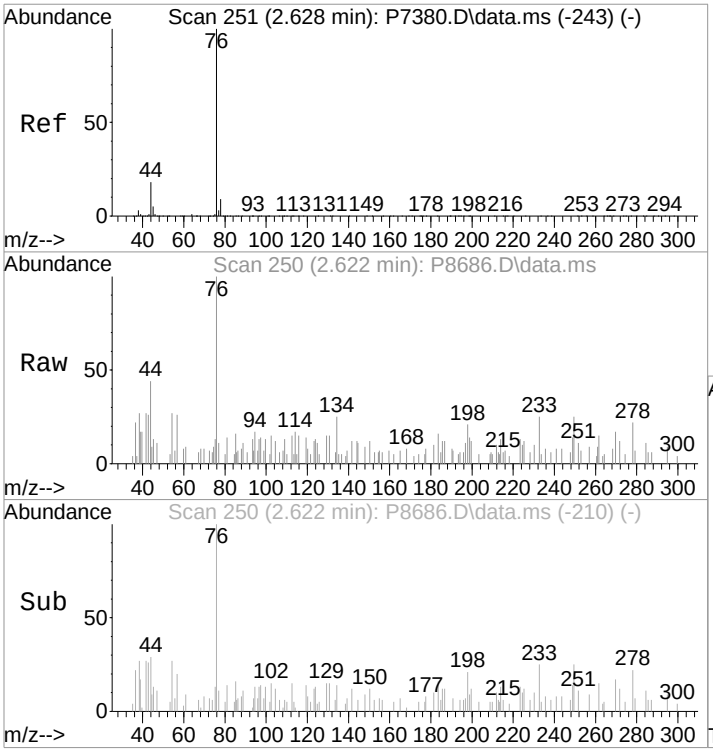


#17
Iodomethane
Concen: 0.36 ppb m
RT: 2.579 min Scan# 243
Delta R.T. 0.012 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:142 Resp: 2954

Ion	Ratio	Lower	Upper
142	100		
127	95.4	23.1	63.1#

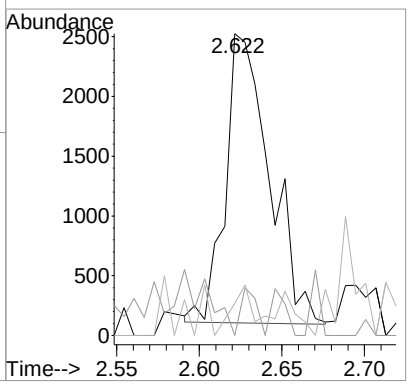


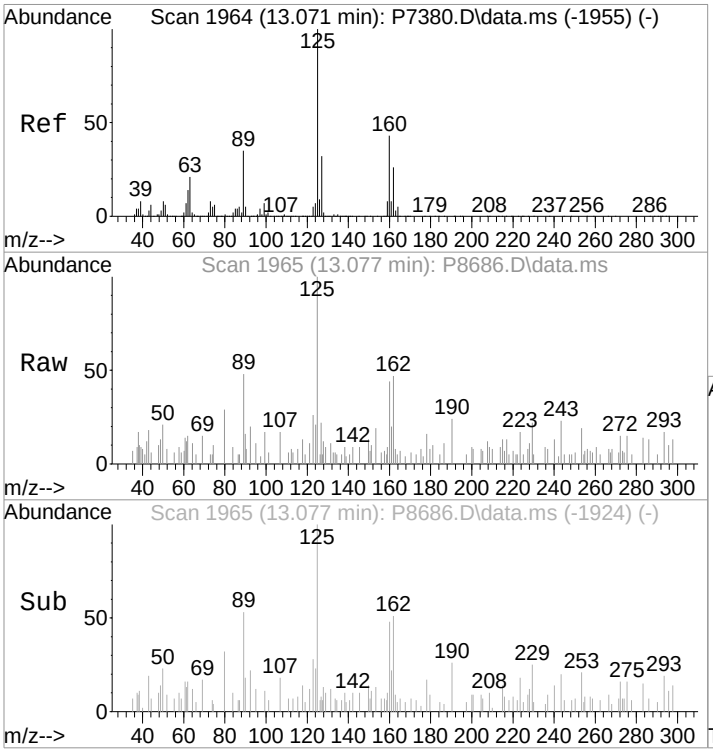


#18
Carbon Disulfide
Concen: 0.26 ppb
RT: 2.622 min Scan# 250
Delta R.T. -0.012 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion: 76 Resp: 4516

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	29.5
77	10.6	0.0	22.7

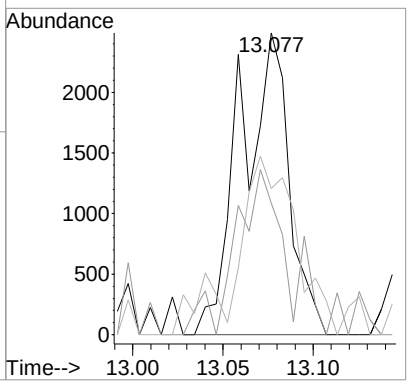


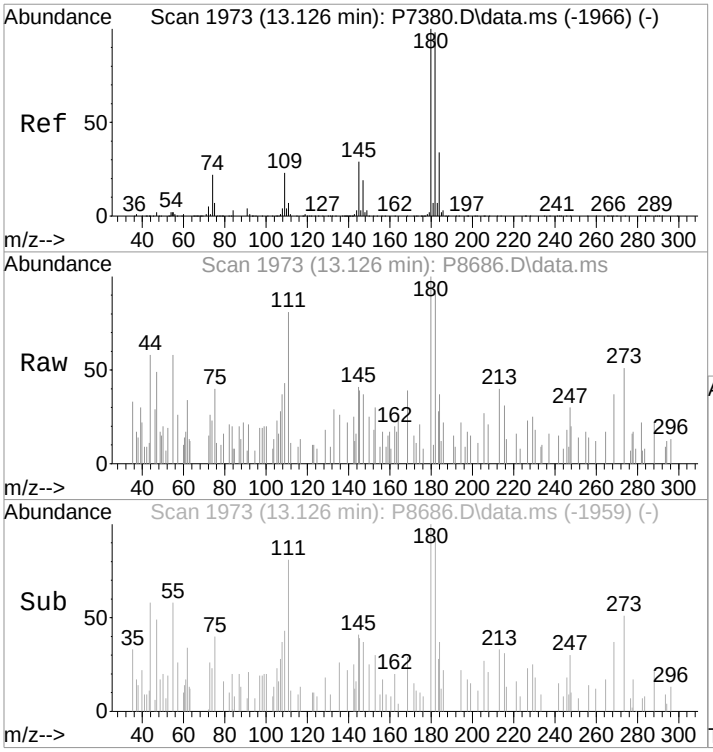


#112
Trielution Dichlorotoluene
Concen: 0.45 ppb m
RT: 13.077 min Scan# 1965
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:125 Resp: 4663

Ion	Ratio	Lower	Upper
125	100		
160	43.5	34.6	51.8
89	48.5	28.0	42.0#

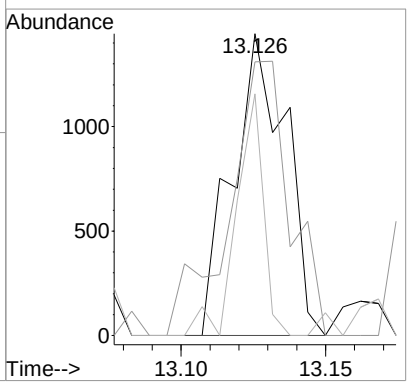


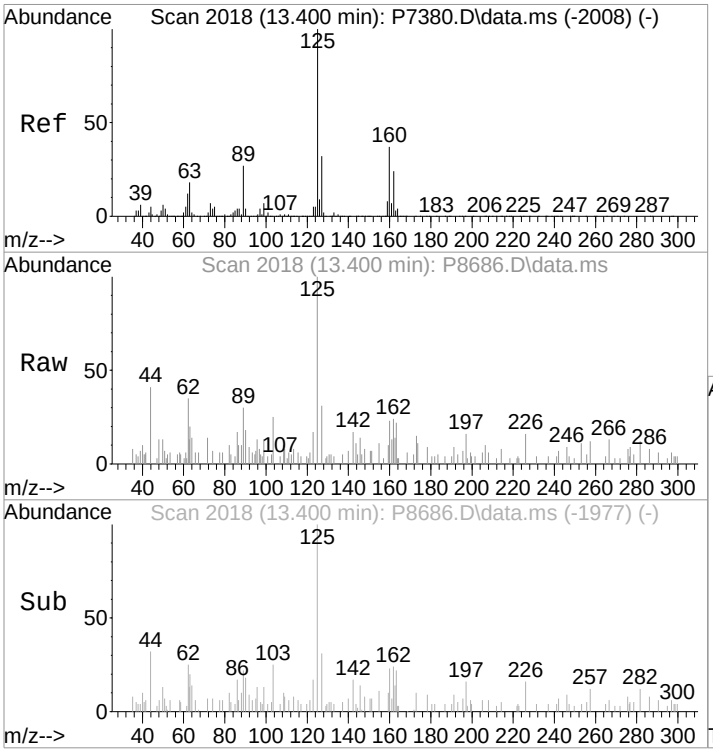


#113
1,3,5 Trichlorobenzene
Concen: 0.20 ppb
RT: 13.126 min Scan# 1973
Delta R.T. -0.006 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:180 Resp: 1858

Ion	Ratio	Lower	Upper
180	100		
182	90.6	78.6	117.8
145	80.0	23.4	35.2#

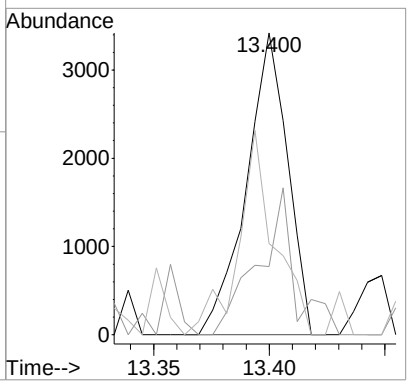


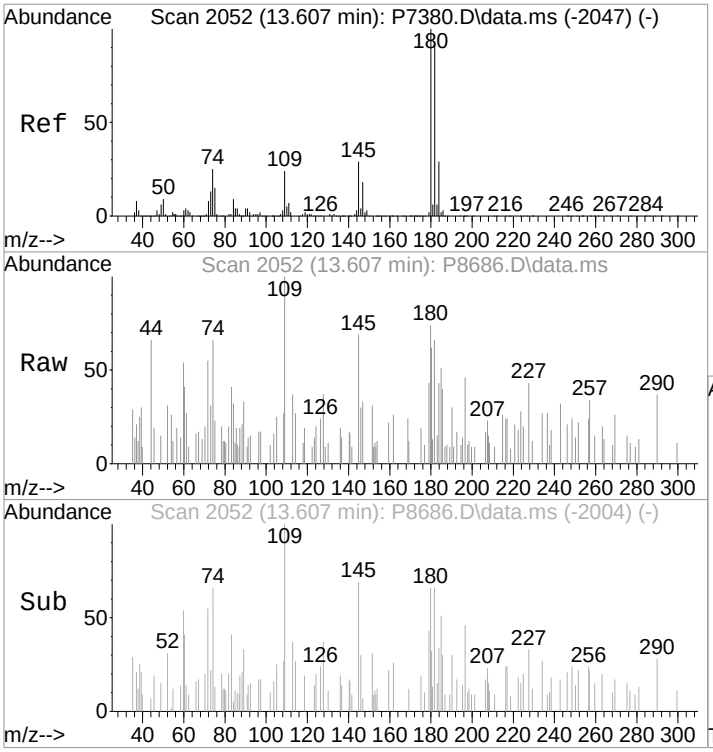


#114
Coelution Dichlorotoluene
Concen: 0.38 ppb
RT: 13.400 min Scan# 2018
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:125 Resp: 4236

Ion	Ratio	Lower	Upper
125	100		
160	22.6	29.8	44.6#
89	30.2	21.7	32.5

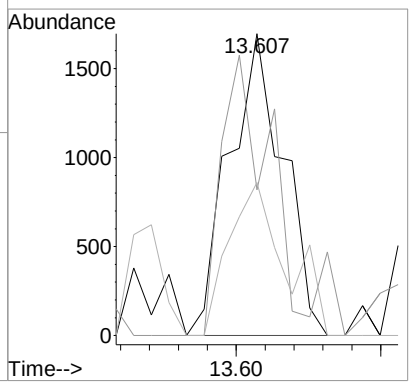


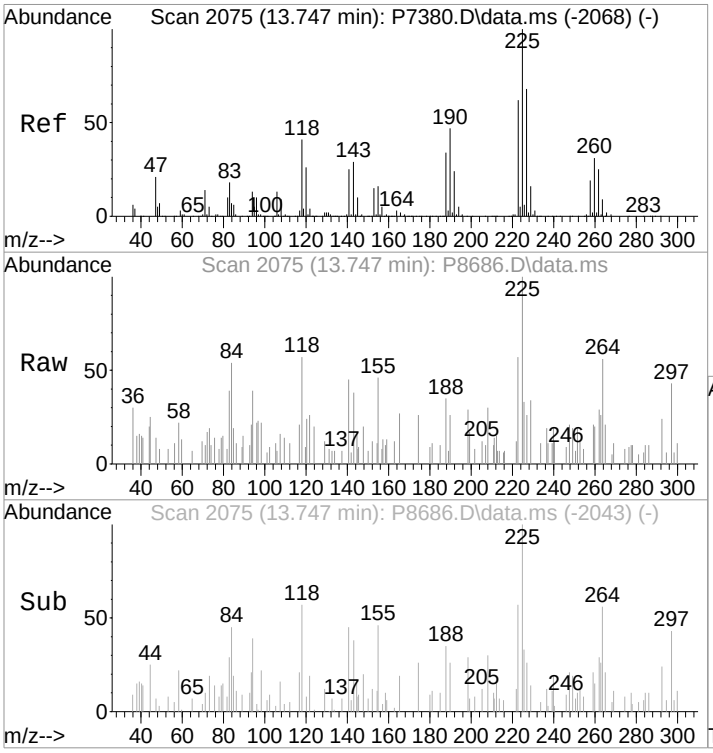


#115
1,2,4-Tcbenzene
Concen: 0.28 ppb
RT: 13.607 min Scan# 2052
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:180 Resp: 2211

Ion	Ratio	Lower	Upper
180	100		
182	48.3	71.4	111.4#
145	50.7	8.8	48.8#

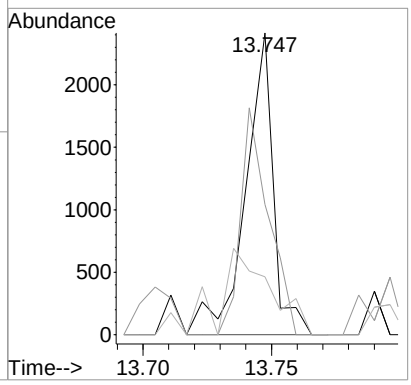


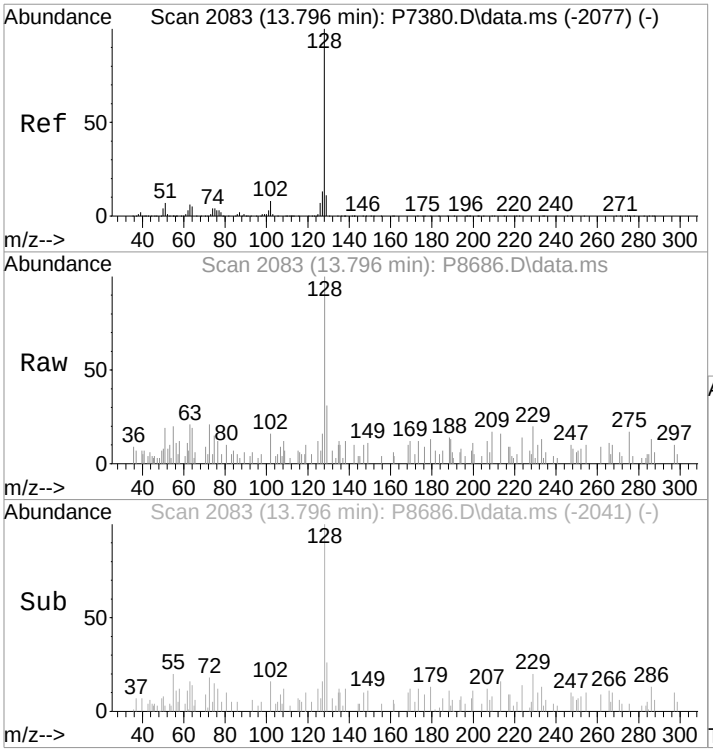


#116
Hexachlorobt
Concen: 0.50 ppb
RT: 13.747 min Scan# 2075
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:225 Resp: 1832

Ion	Ratio	Lower	Upper
225	100		
223	43.1	42.2	82.2
227	19.2	47.7	87.7#

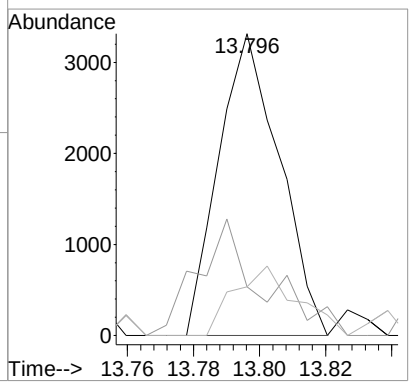


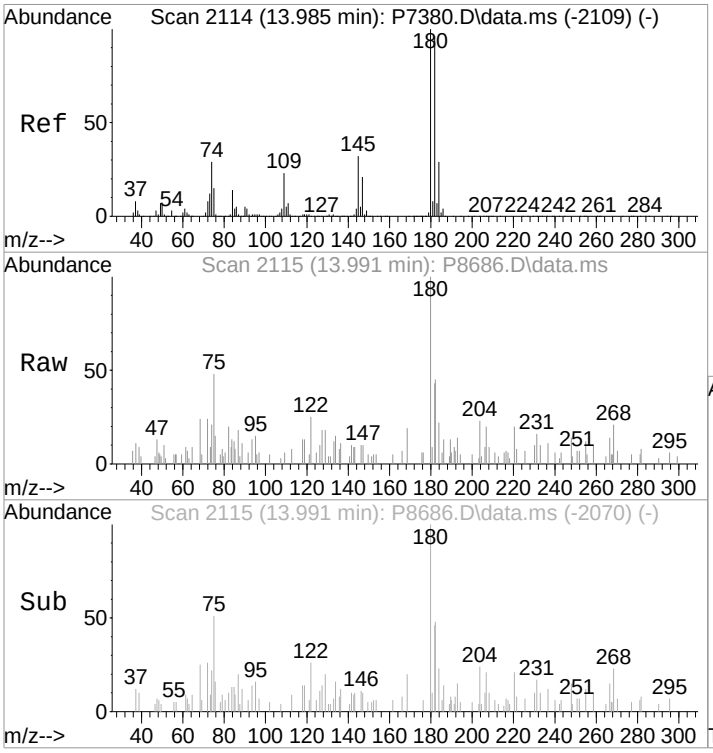


#117
Naphthalen
Concen: 0.29 ppb
RT: 13.796 min Scan# 2083
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:128 Resp: 4247

Ion	Ratio	Lower	Upper
128	100		
127	16.2	0.0	32.8
102	16.1	0.0	28.5

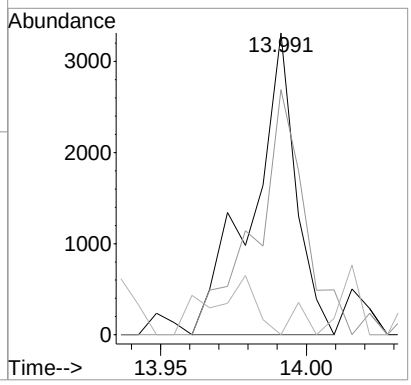


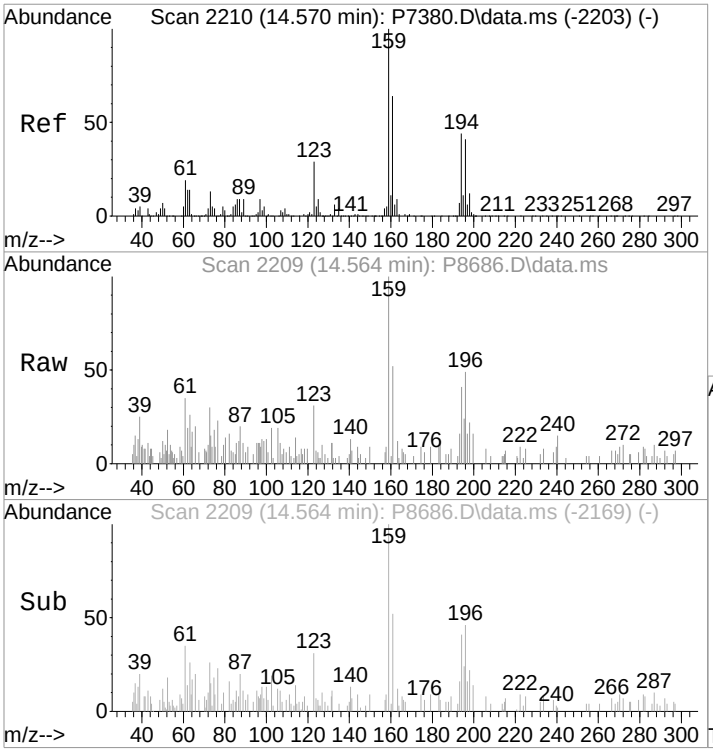


#118
1,2,3-Tclbenzene
Concen: 0.53 ppb m
RT: 13.991 min Scan# 2115
Delta R.T. 0.006 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:180 Resp: 3463

Ion	Ratio	Lower	Upper
180	100		
182	45.3	75.9	115.9#
145	0.0	11.8	51.8#

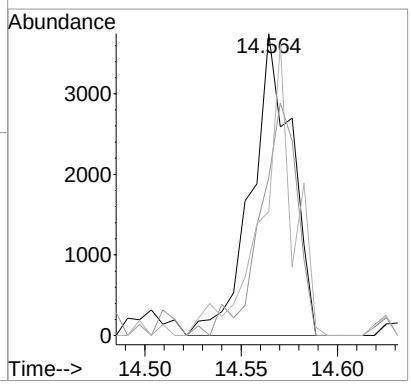


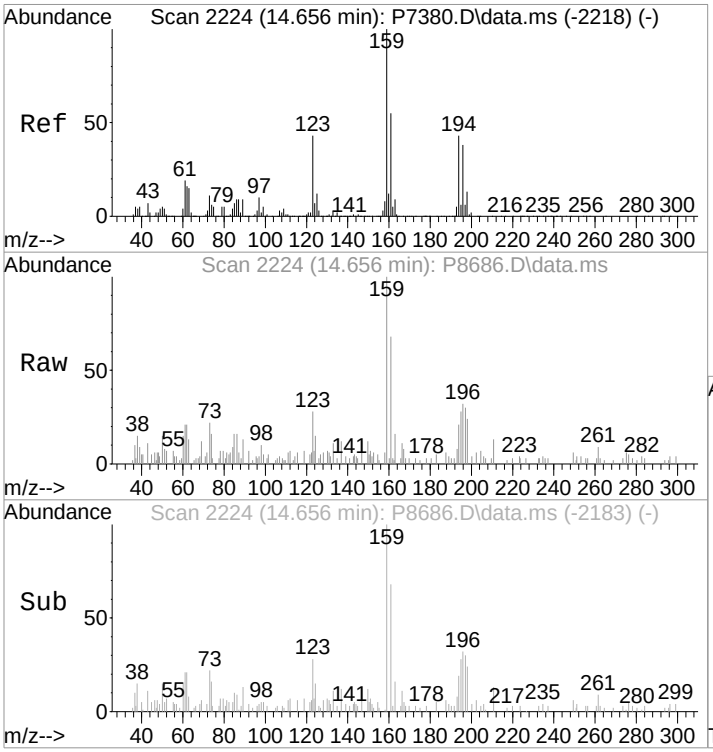


#119
2,4,5-Trichlorotolene
Concen: 1.07 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:159 Resp: 5458

Ion	Ratio	Lower	Upper
159	100		
161	52.4	51.0	76.4
194	41.0	35.4	53.2

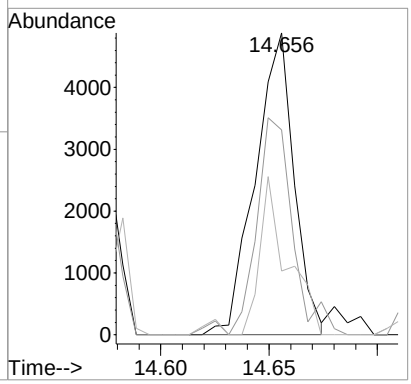




#120
2,3,6-Trichlorotoluene
Concen: 1.43 ppb m
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P8686.D
Acq: 25 Mar 2017 1:43 am

Tgt Ion:159 Resp: 6072

Ion	Ratio	Lower	Upper
159	100		
161	67.8	44.3	66.5#
194	21.1	34.8	52.2#

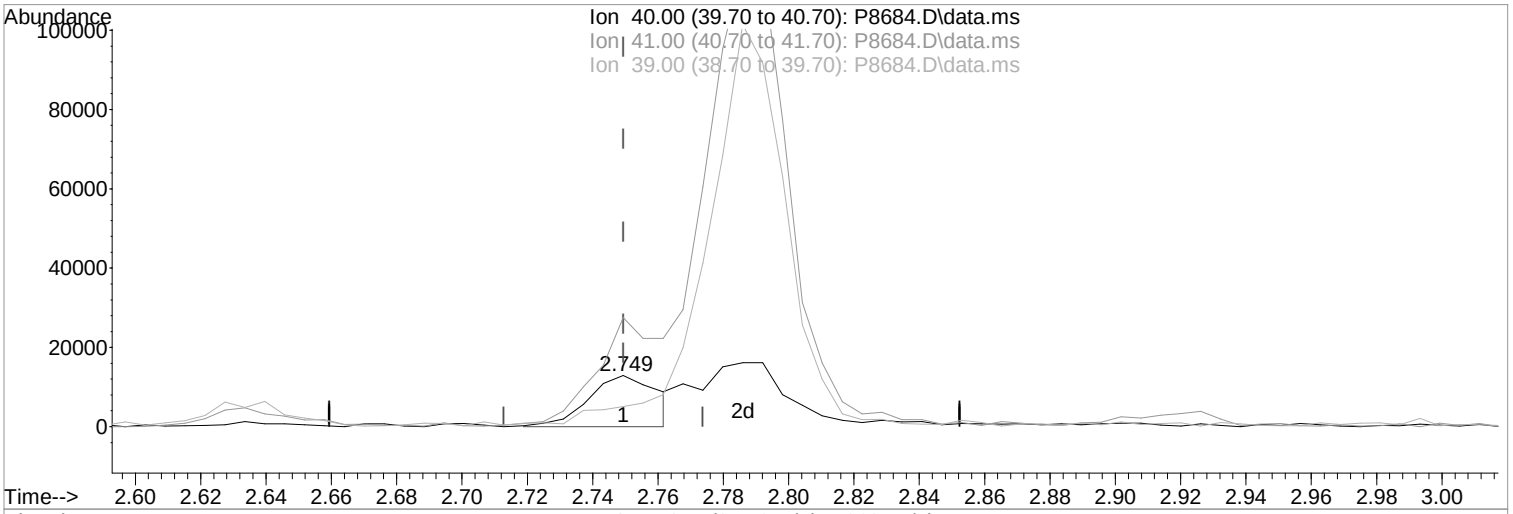


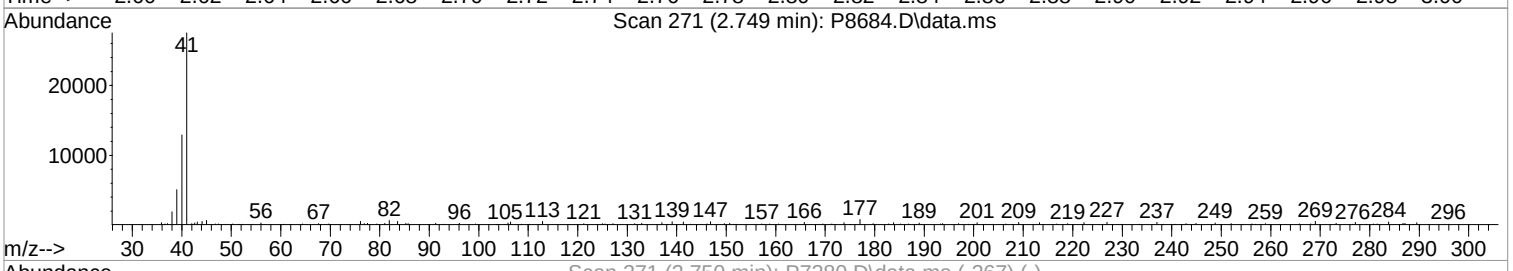
1st 03/27/17
2nd 03/28/17

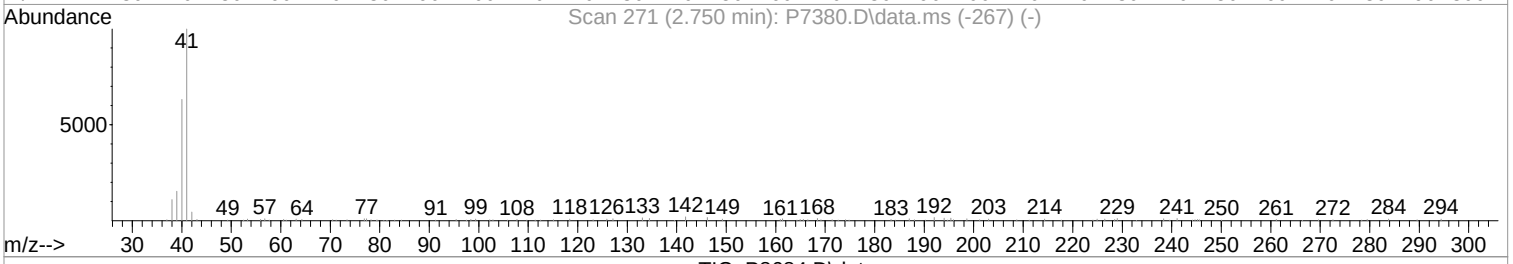
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(19) Acetonitrile

2.749min (-0.000) 109.25 ppb m

response 18917

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	213.09#
39.00	26.70	39.15
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

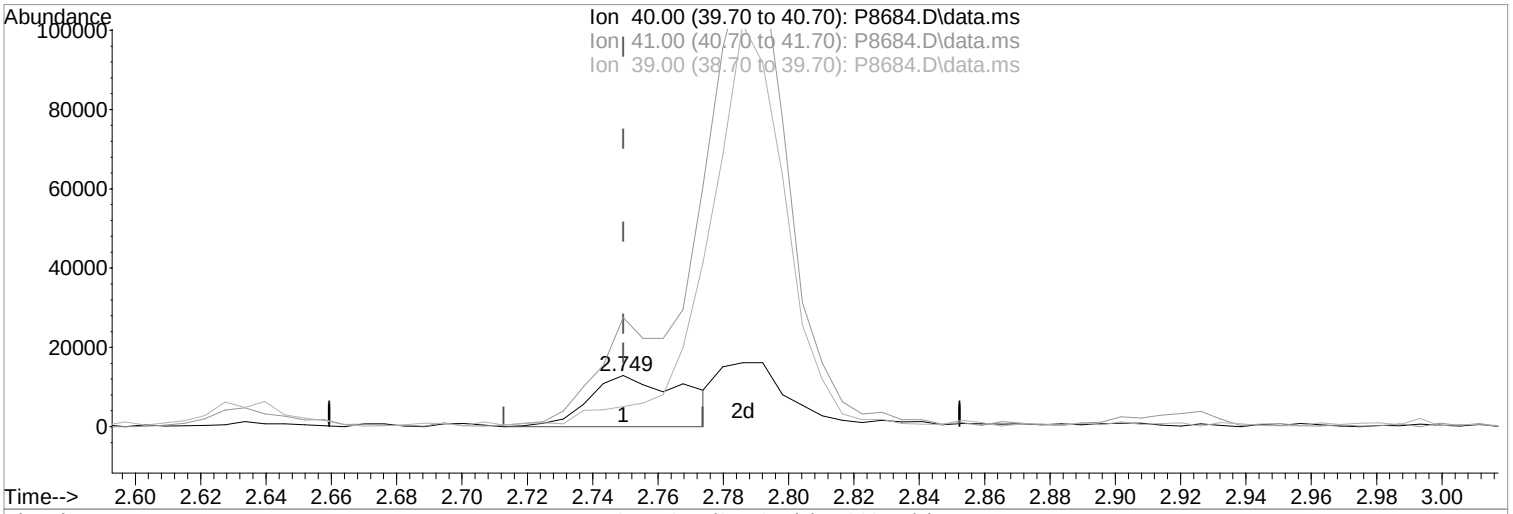
03/27/17

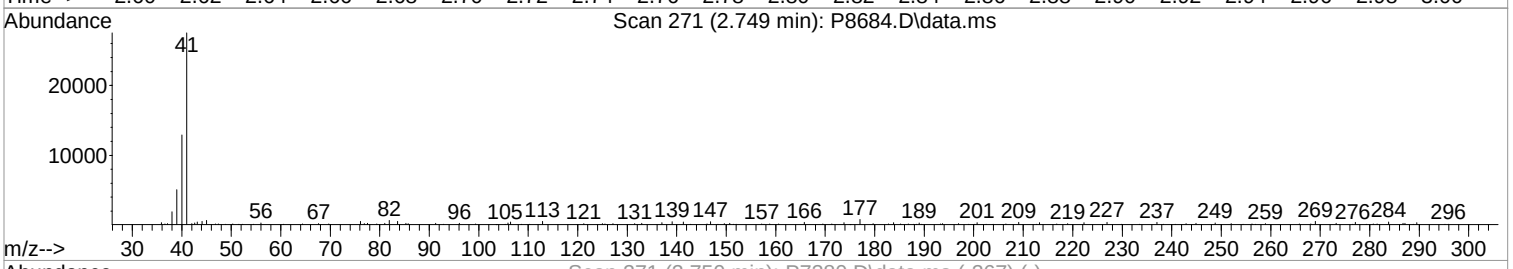
1st 03/27/17
2nd 03/28/17

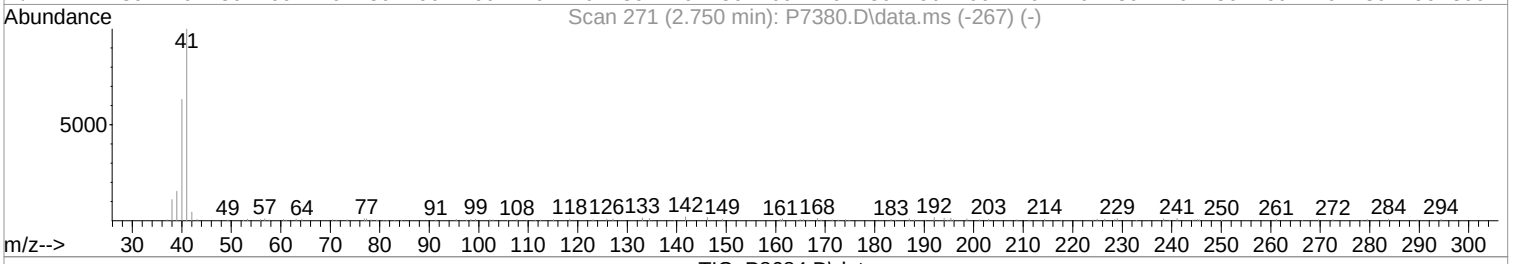
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(19) Acetonitrile

2.749min (-0.000) 152.09 ppb

response 26335

Ion	Exp%	Act%
40.00	100	100
41.00	161.50	213.09#
39.00	26.70	39.15
0.00	0.00	0.00

Manual Integration:

Before

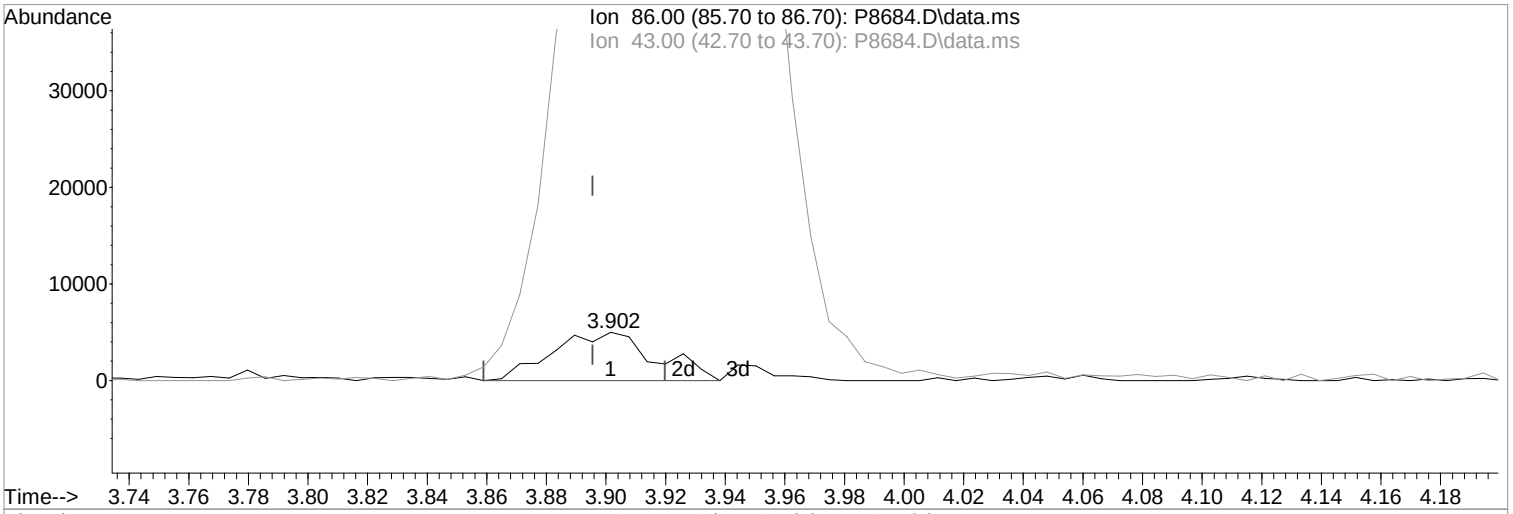
03/27/17

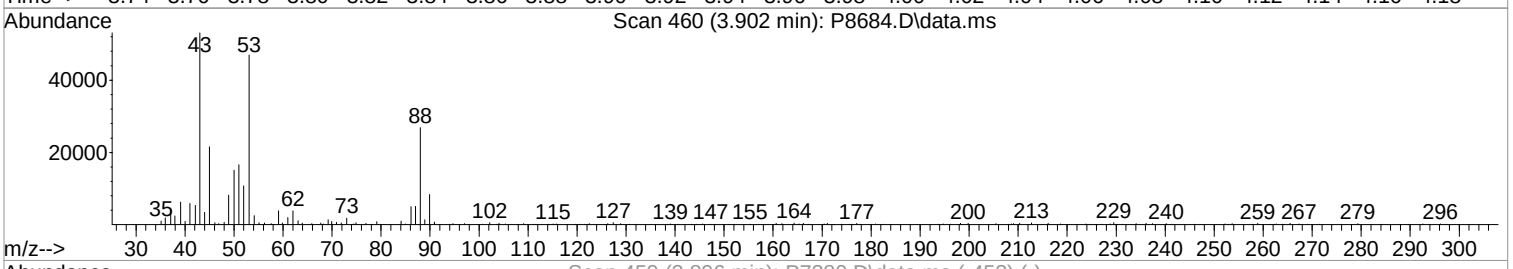
1st 03/27/17
2nd 03/28/17

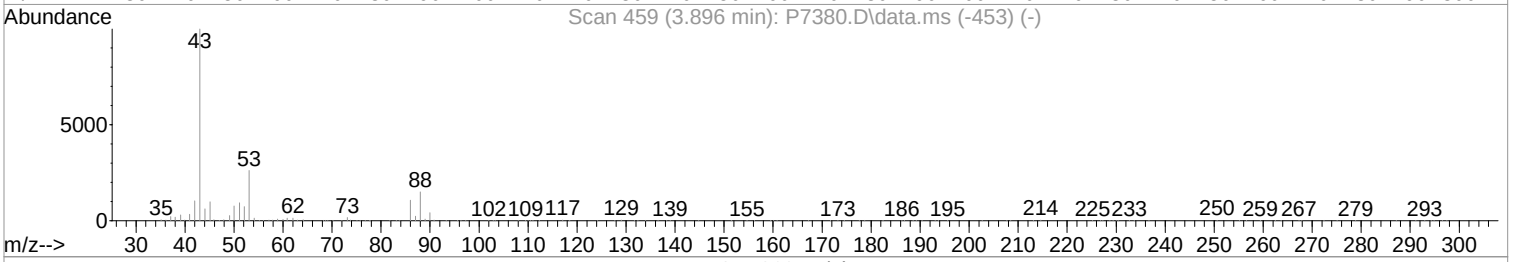
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(29) Vinyl Acetate

3.902min (+0.006) 10.84 ppb m

response 11925

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	1065.97#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

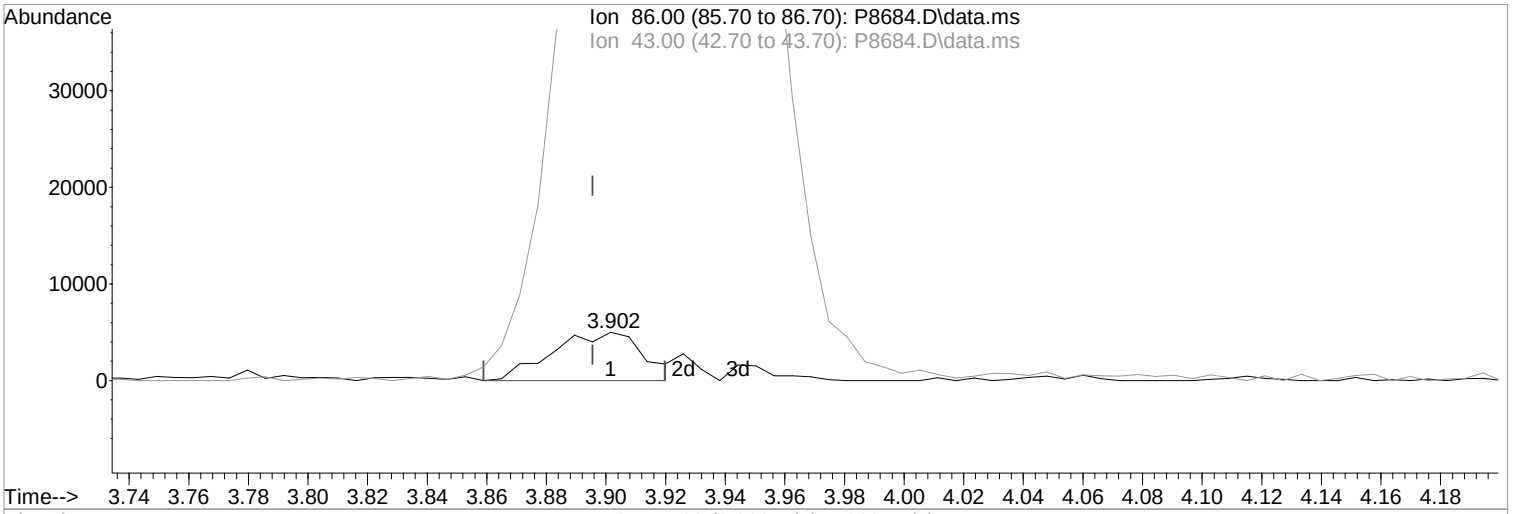
03/27/17

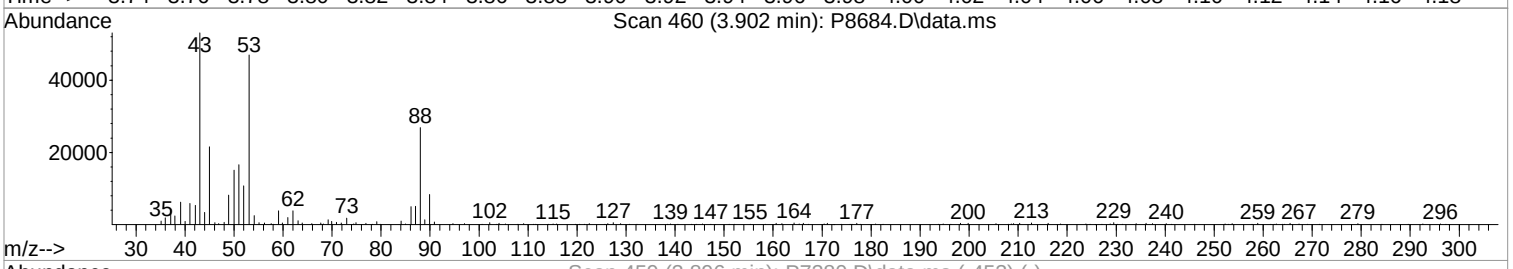
1st 03/27/17
2nd 03/28/17

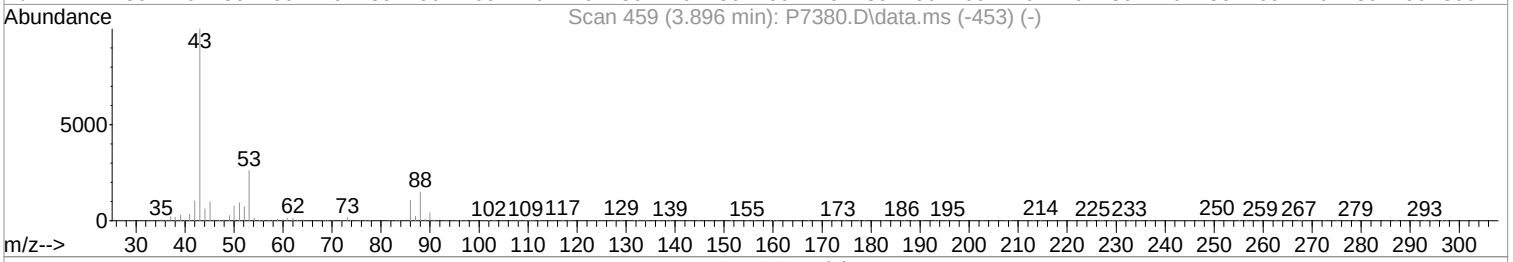
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8684.D\data.ms

(29) Vinyl Acetate

3.902min (+0.006) 9.54 ppb

response 10491

Ion	Exp%	Act%
86.00	100	100
43.00	951.10	1065.97#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

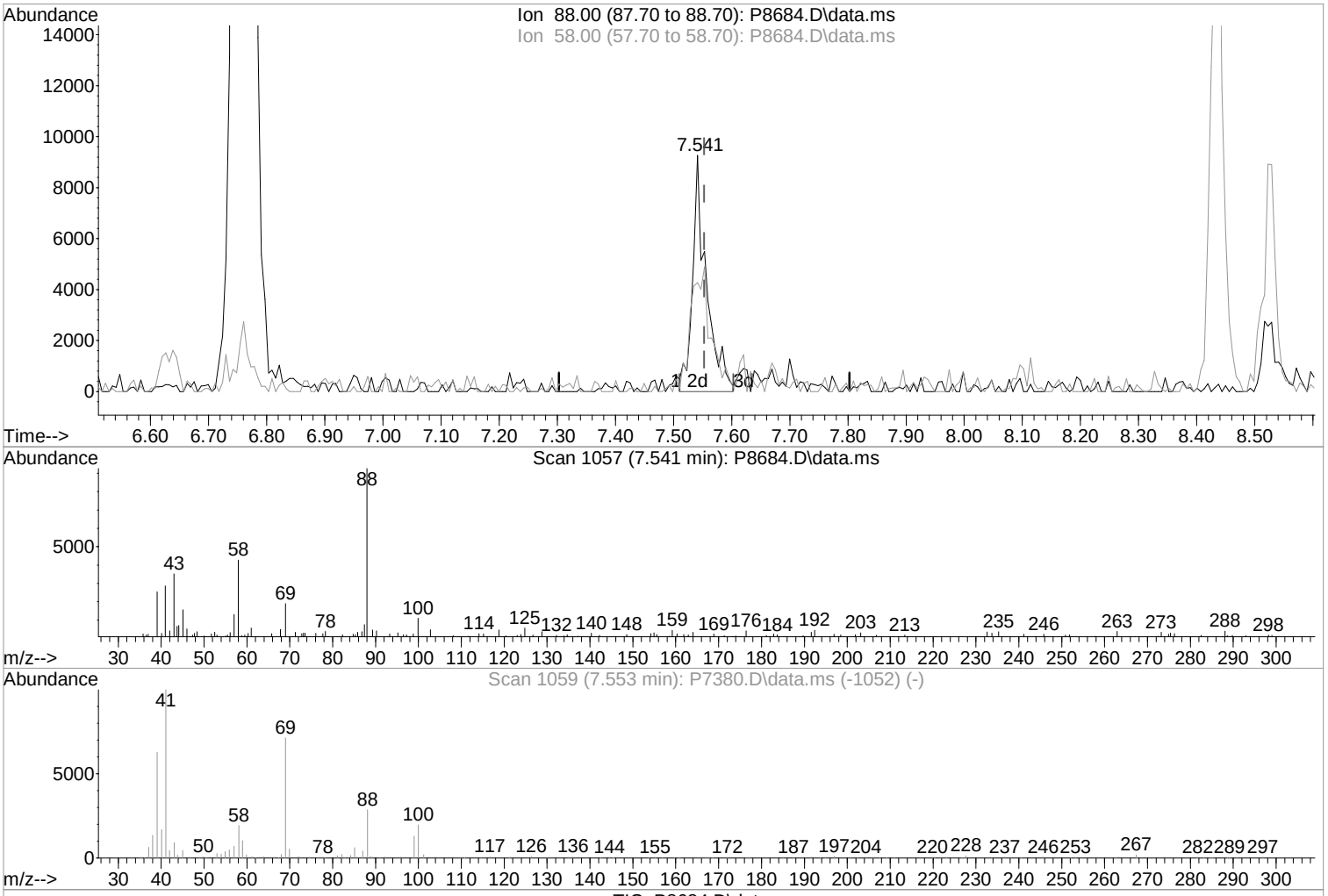
03/27/17

1st 03/27/17
2nd 03/28/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8684.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.012) 325.72 ppb m

response 15213

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	46.11#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

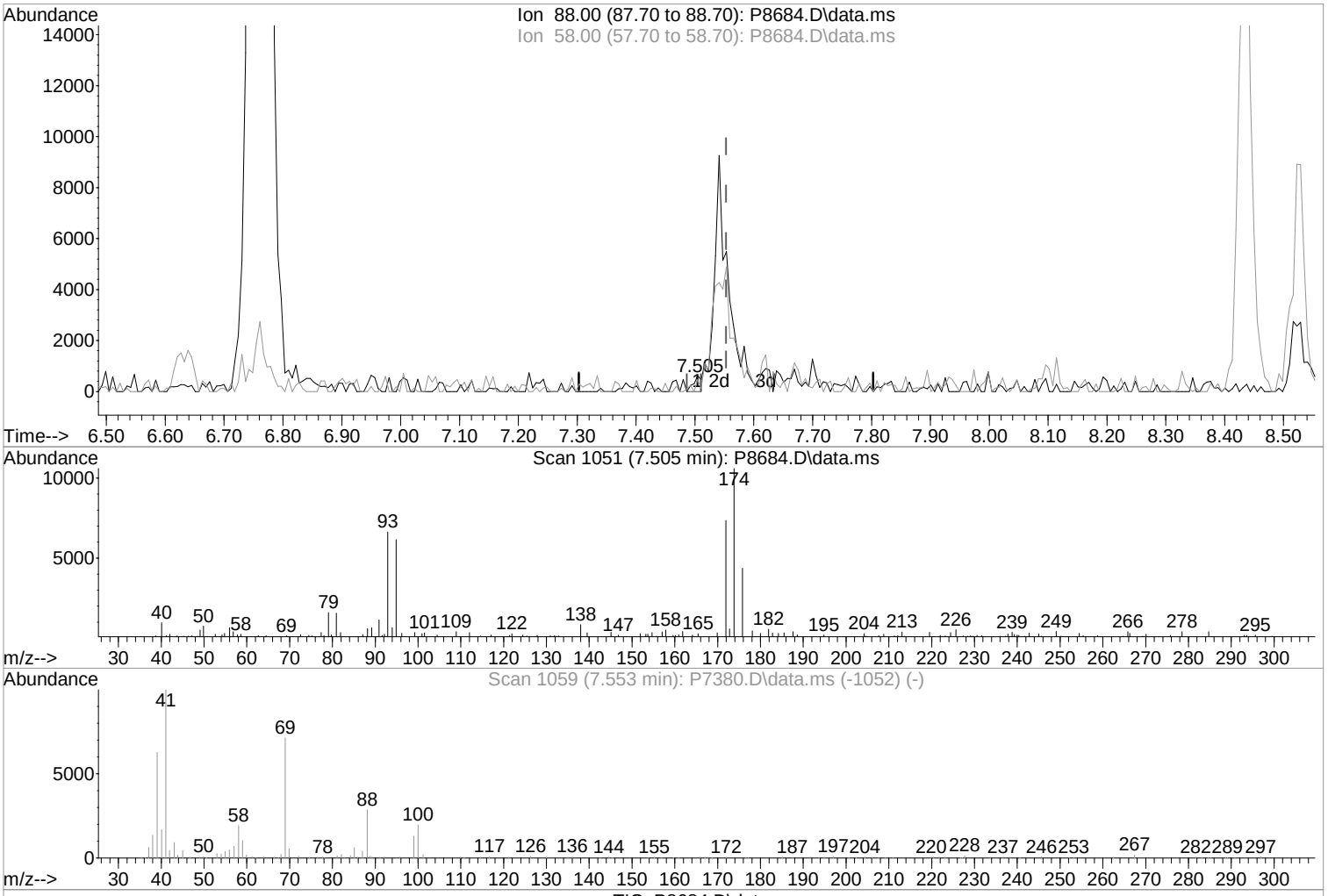
Peak not found.

03/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:21:11 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



TIC: P8684.D\data.ms

(58) 1,4-Dioxane

7.505min (-0.048) -1.00 ppb

response 592

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	77.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.730	168	821817	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1299667	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1218486	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	647894	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	400550	57.11	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 114.22%				
48) surr1,1,2-dichloroetha...	6.084	65	450625	57.87	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 115.74%				
65) SURR3,Toluene-d8	8.523	98	1626173	56.08	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.16%				
70) SURR2,BFB	11.047	95	593591	52.83	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	193834	19.38	ppb		95
3) Chloromethane	1.341	50	176308	19.68	ppb		98
4) Vinyl Chloride	1.426	62	175297	22.09	ppb		100
5) Bromomethane	1.683	94	70655	17.62	ppb		98
6) Chloroethane	1.762	64	86176	20.50	ppb		94
7) Freon 21	1.920	67	222915	22.19	ppb		98
8) Trichlorofluoromethane	1.969	101	194191	21.85	ppb		94
9) Diethyl Ether	2.225	59	81795	21.66	ppb		91
10) Freon 123a	2.231	67	151703	24.33	ppb		98
11) Freon 123	2.286	83	161842	22.52	ppb		95
12) Acrolein	2.335	56	12905	20.75	ppb		87
13) 1,1-Diclethene	2.426	96	121288	20.83	ppb		96
14) Freon 113	2.432	101	122184	19.43	ppb		88
15) Acetone	2.481	43	29471	24.41	ppb		96
16) 2-Propanol	2.640	45	93223	457.34	ppb		99
17) Iodomethane	2.566	142	188138	22.02	ppb		87
18) Carbon Disulfide	2.627	76	379835	21.40	ppb		98
19) Acetonitrile	2.749	40	18917m	109.25	ppb		
20) Allyl Chloride	2.786	76	64933	18.70	ppb	#	90
21) Methyl Acetate	2.816	43	59033	20.52	ppb		85
22) Methylene Chloride	2.914	84	136823	21.45	ppb	#	86
23) TBA	3.079	59	162264	481.06	ppb		98
24) Acrylonitrile	3.200	53	151382	107.50	ppb		91
25) Methyl-t-Butyl Ether	3.255	73	316274	20.60	ppb		97
26) trans-1,2-Dichloroethene	3.237	96	133103	19.72	ppb		93
28) 1,1-Diclethane	3.786	63	240040	21.24	ppb		98
29) Vinyl Acetate	3.902	86	11925m	10.84	ppb		
30) DIPE	3.938	45	455532	21.70	ppb		95
31) 2-Chloro-1,3-Butadiene	3.914	53	204092	21.08	ppb		98
32) ETBE	4.517	59	400375	22.50	ppb		94
33) 2,2-Dichloropropane	4.694	77	153248	17.21	ppb		93
34) cis-1,2-Dichloroethene	4.706	96	152946	21.28	ppb		99
35) 2-Butanone	4.773	43	37506	21.13	ppb		92
36) Propionitrile	4.853	54	50998	94.87	ppb		97
37) Bromochloromethane	5.133	130	88649	22.58	ppb		87
38) Methacrylonitrile	5.151	67	36308	20.72	ppb		90
39) Tetrahydrofuran	5.224	42	24871	21.87	ppb		99
40) Chloroform	5.322	83	241794	22.00	ppb		98
41) 1,1,1-Trichloroethane	5.578	97	205202	21.30	ppb		83

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.395	73	350408	22.30	ppb		100
44)	Cyclohexane	5.663	41	127425	18.75	ppb		94
46)	Carbontetrachloride	5.846	121	48254	20.16	ppb		81
47)	1,1-Dichloropropene	5.859	75	182004	21.02	ppb		96
49)	Benzene	6.163	78	530519	23.07	ppb		96
50)	1,2-Dichloroethane	6.206	62	172246	21.20	ppb		96
51)	Iso-Butyl Alcohol	6.188	43	73497	512.50	ppb	#	65
52)	n-Heptane	6.639	43	103655	13.38	ppb		93
53)	1-Butanol	7.108	56	107363	1290.31	ppb		97
54)	Trichloroethene	7.072	130	157110	23.41	ppb		94
55)	Methylcyclohexane	7.303	55	121476	15.34	ppb		93
56)	1,2-Diclpropane	7.346	63	138408	21.25	ppb		90
57)	Dibromomethane	7.486	93	68689	20.81	ppb		96
58)	1,4-Dioxane	7.541	88	15213m	325.72	ppb		
59)	Methyl Methacrylate	7.566	69	68869	22.06	ppb		94
60)	Bromodichloromethane	7.706	83	170335	21.28	ppb		98
61)	2-Nitropropane	7.974	41	33372	52.67	ppb		93
62)	2-Chloroethylvinyl Ether	8.102	63	61347	19.61	ppb		92
63)	cis-1,3-Dichloropropene	8.236	75	203514	21.68	ppb		98
64)	4-Methyl-2-pentanone	8.431	43	84320	20.58	ppb		92
66)	Toluene	8.596	91	604145	22.44	ppb		99
67)	trans-1,3-Dichloropropene	8.858	75	165999	21.55	ppb		96
68)	Ethyl Methacrylate	8.992	69	137703	23.11	ppb		93
69)	1,1,2-Trichloroethane	9.041	97	102806	22.51	ppb		96
72)	Tetrachloroethene	9.175	164	109239	20.67	ppb		87
73)	2-Hexanone	9.321	43	60095	21.90	ppb		78
74)	1,3-Dichloropropane	9.205	76	181716	22.04	ppb		99
75)	Dibromochloromethane	9.431	129	119096	25.28	ppb		98
76)	N-Butyl Acetate	9.474	43	152742	22.81	ppb		97
77)	1,2-Dibromoethane	9.522	107	104672	24.36	ppb		93
78)	Chlorobenzene	10.010	112	376579	21.99	ppb		97
79)	3-CBTF	10.028	180	177438	18.32	ppb		97
80)	4-CBTF	10.077	180	159135	17.90	ppb		98
81)	1,1,1,2-Tetrachloroethane	10.095	131	130612	23.20	ppb		94
82)	Ethylbenzene	10.126	106	212099	22.29	ppb		95
83)	(m+p)Xylene	10.242	106	493236	43.96	ppb		94
84)	o-Xylene	10.589	106	242565	21.70	ppb		95
85)	Styrene	10.601	104	432227	23.13	ppb		93
87)	Bromoform	10.754	173	65830	27.34	ppb		91
88)	2-CBTF	10.833	180	182345	20.46	ppb		93
89)	Isopropylbenzene	10.925	105	576013	21.75	ppb		95
90)	Cyclohexanone	10.986	55	105472	226.41	ppb		98
91)	trans-1,4-Dichloro-2-B...	11.223	53	22559	18.41	ppb		98
92)	1,1,2,2-Tetrachloroethane	11.175	83	111467	22.00	ppb		95
93)	Bromobenzene	11.168	156	149961	20.86	ppb		89
94)	1,2,3-Trichloropropane	11.205	110	33573	20.69	ppb	#	86
95)	n-Propylbenzene	11.272	91	682727	22.33	ppb		99
96)	2-Chlorotoluene	11.339	91	411088	22.34	ppb		98
97)	3-Chlorotoluene	11.388	91	460146	22.55	ppb		94
98)	4-Chlorotoluene	11.431	91	466233	21.73	ppb		95
99)	1,3,5-Trimethylbenzene	11.425	105	477885	20.82	ppb		98
100)	tert-Butylbenzene	11.699	119	378171	20.12	ppb		95
101)	1,2,4-Trimethylbenzene	11.735	105	490101	20.80	ppb		99
102)	3,4-DCBTF	11.796	214	106046	15.36	ppb		95
103)	sec-Butylbenzene	11.876	105	542491	19.65	ppb		99
104)	p-Isopropyltoluene	11.998	119	439683	19.02	ppb		94

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	287980	20.96	ppb	99
106) 1,4-Dclbenz	12.034	146	293568	20.47	ppb	98
107) 2,4-DCBTF	12.083	214	92850	14.60	ppb	92
108) 2,5-DCBTF	12.126	214	106234	15.74	ppb	94
109) n-Butylbenzene	12.327	91	396046	18.79	ppb	97
110) 1,2-Dclbenz	12.333	146	267651	20.83	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.949	157	22005	22.22	ppb	98
112) Trielution Dichlorotol...	13.077	125	629160	56.91	ppb	98
113) 1,3,5 Trichlorobenzene	13.125	180	163773	16.71	ppb	99
114) Coelution Dichlorotoluene	13.400	125	466788	39.08	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	156465	18.35	ppb	93
116) Hexachlorobt	13.747	225	62715	16.15	ppb	96
117) Naphthalen	13.796	128	365069	23.19	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	142796	20.34	ppb	99
119) 2,4,5-Trichlorotolene	14.564	159	117510	21.54	ppb	94
120) 2,3,6-Trichlorotoluene	14.649	159	112454	24.76	ppb	93

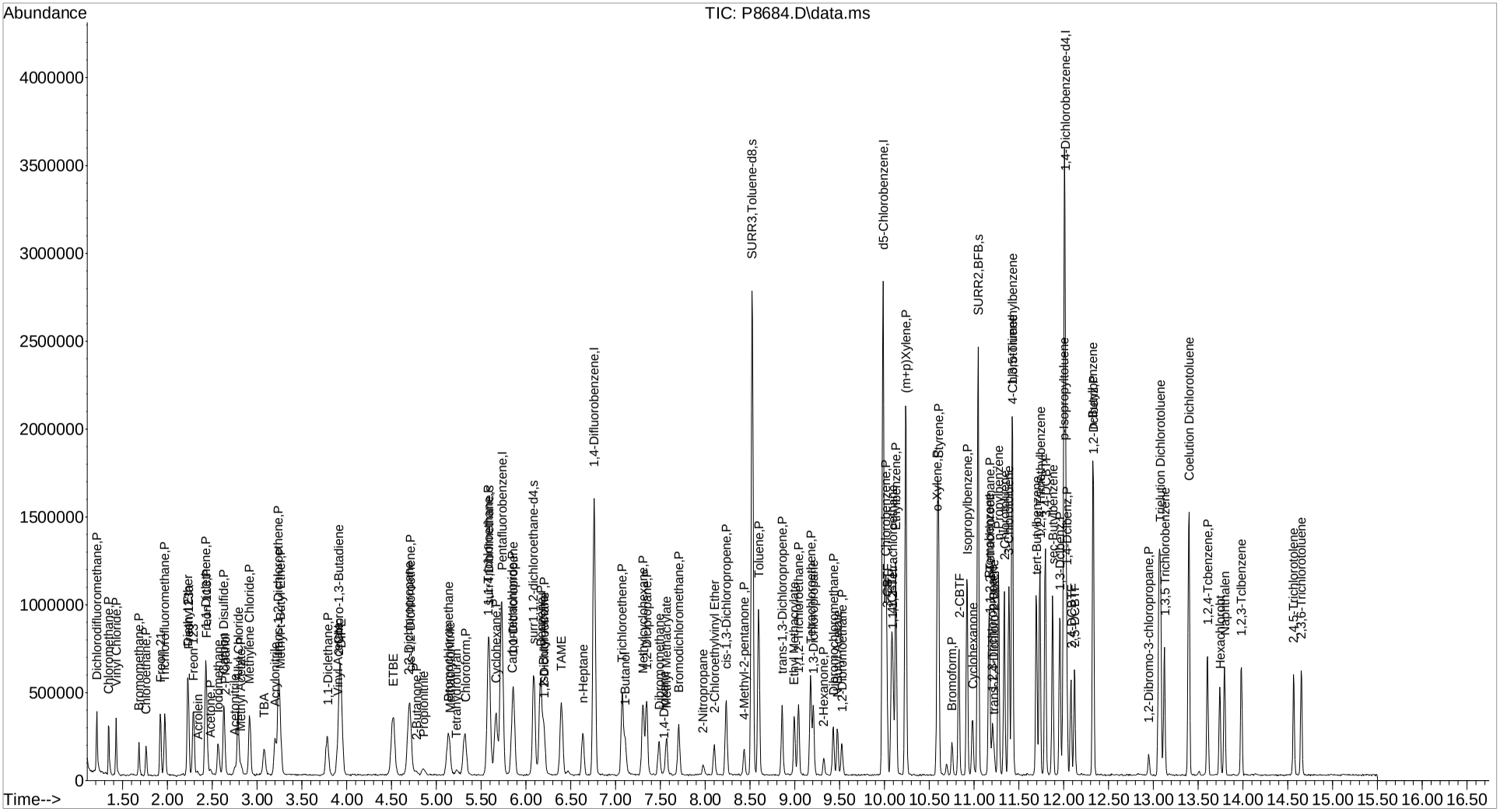
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8684.D
Acq On : 25 Mar 2017 12:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 09:23:39 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

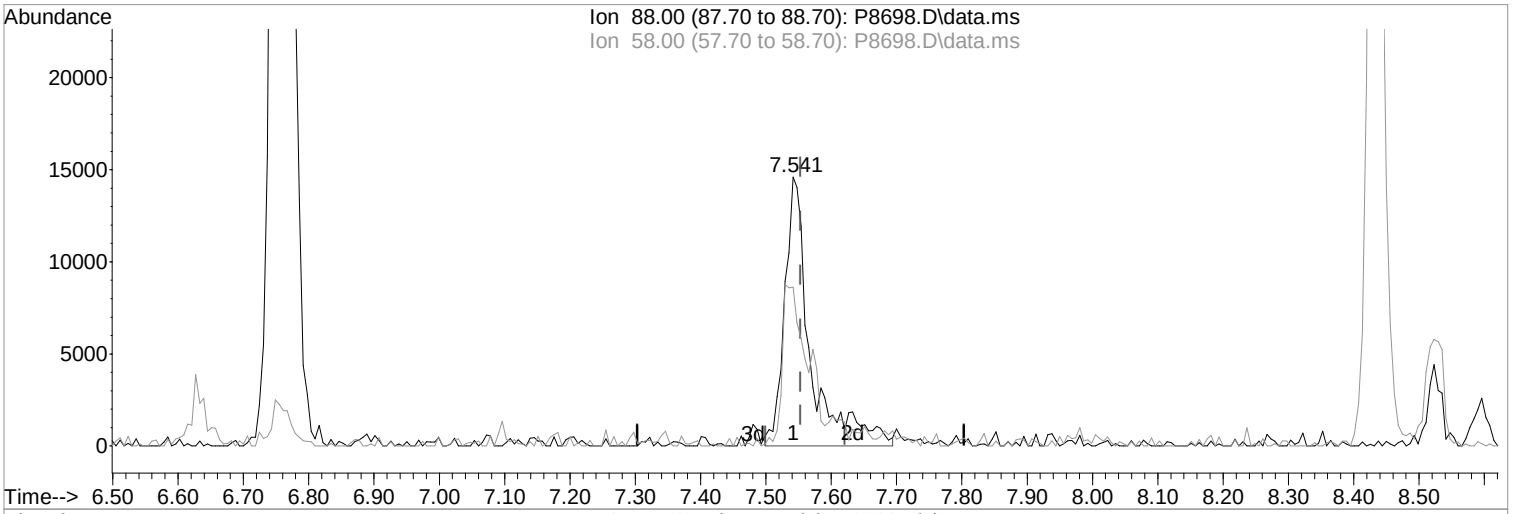
1st 03/27/17
2nd 03/28/17

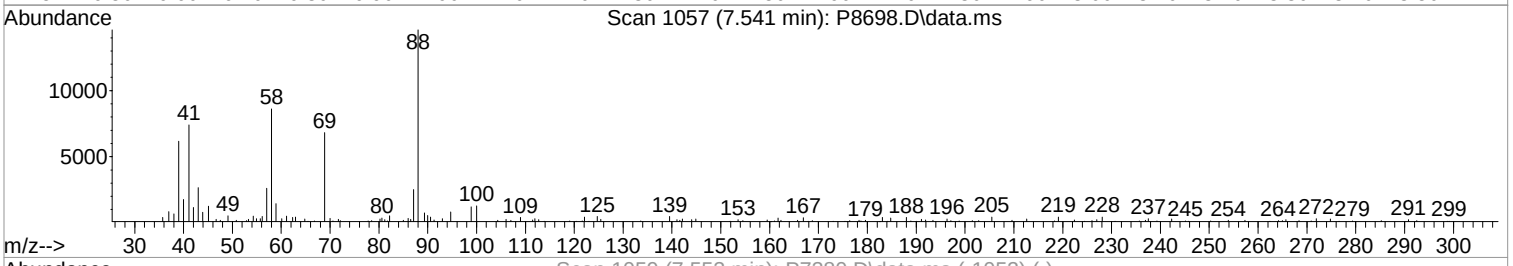


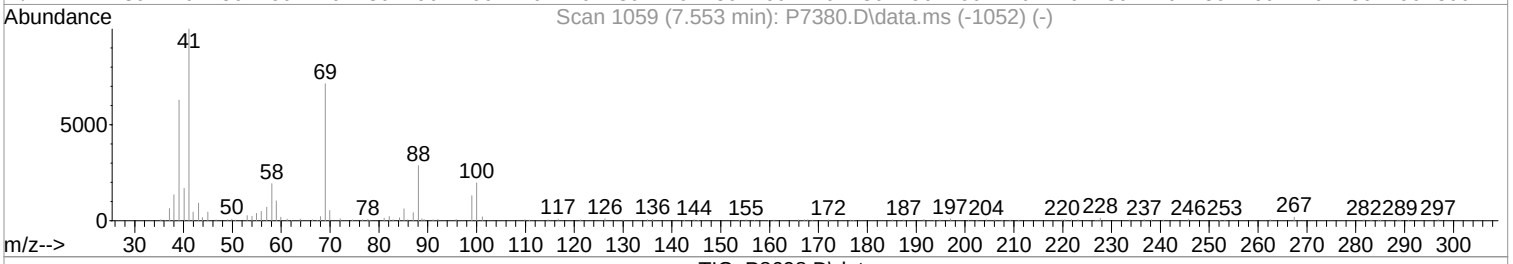
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 09:42:35 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8698.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.012) 912.48 ppb m

response 40494

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	59.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

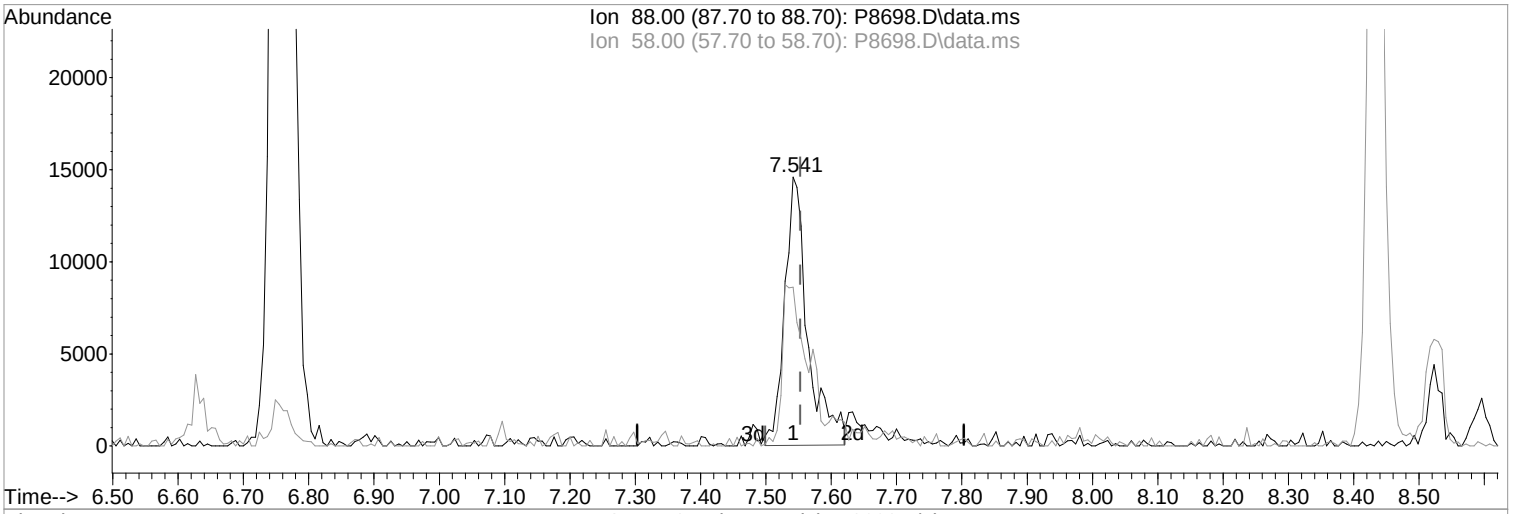
Poor integration.

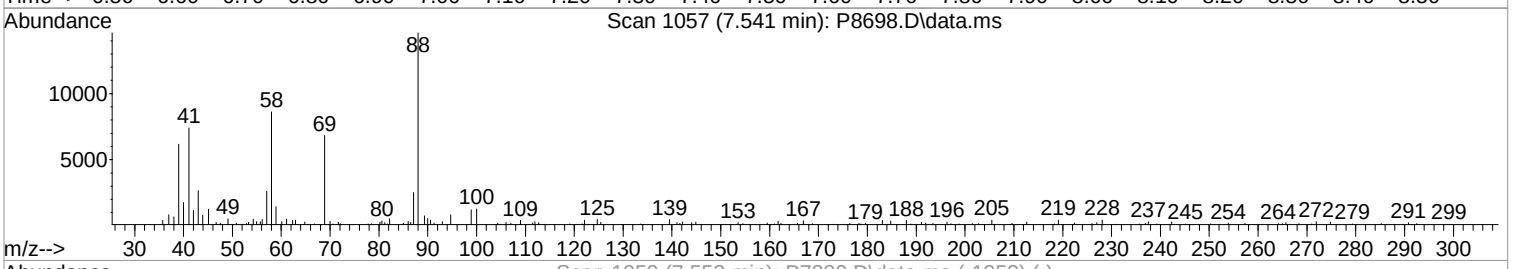
03/27/17

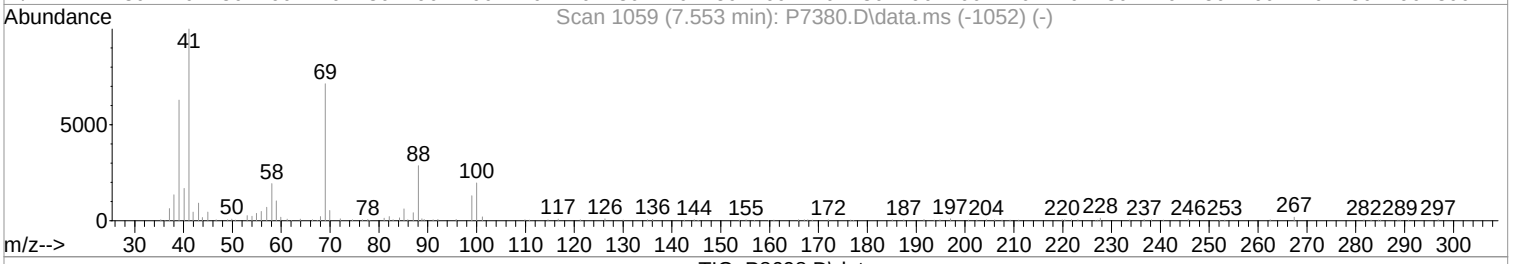
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 09:42:35 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8698.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.012) 796.70 ppb

response 35641

Ion	Exp%	Act%
88.00	100	100
58.00	67.50	59.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

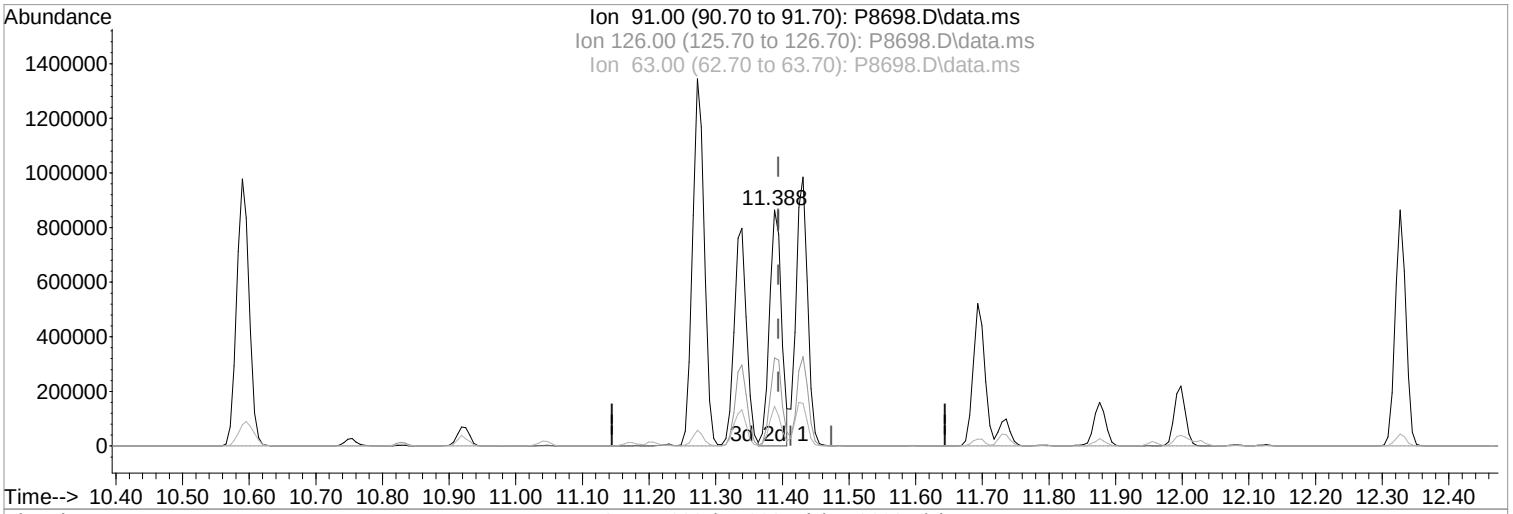
Before

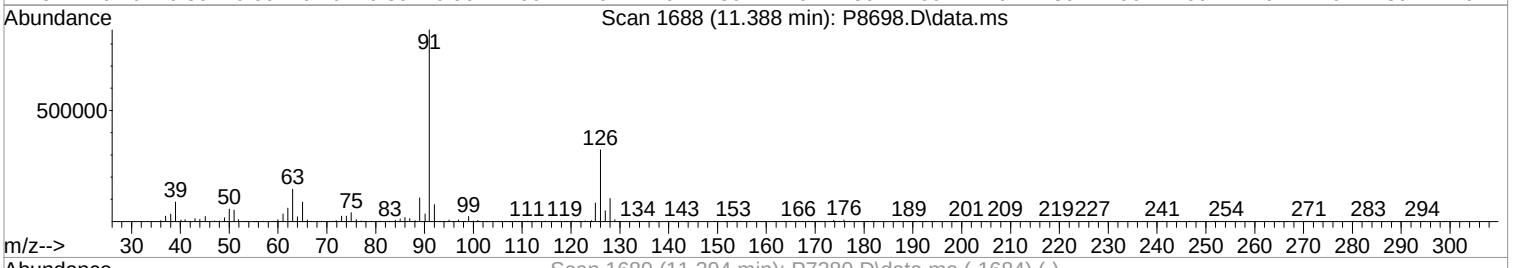
03/27/17

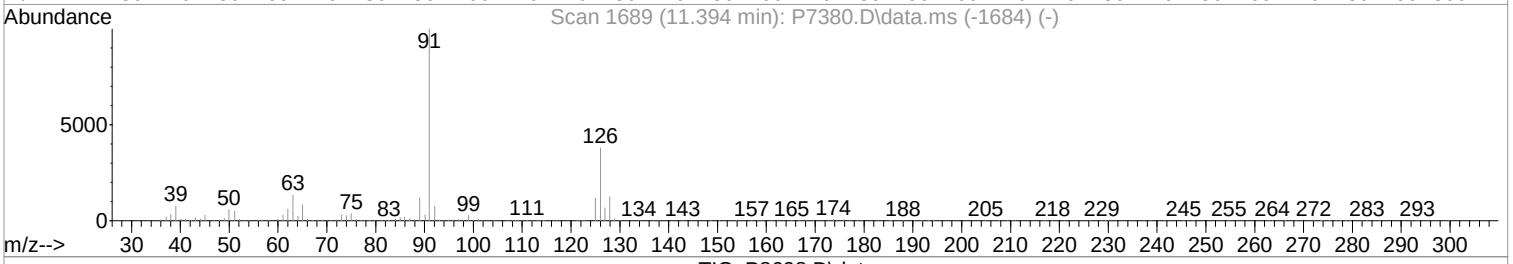
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 09:42:35 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8698.D\data.ms

(97) 3-Chlorotoluene

11.388min (-0.006) 54.72 ppb m

response 1086297

Ion	Exp%	Act%
91.00	100	100
126.00	37.70	37.37
63.00	13.50	16.85#
0.00	0.00	0.00

Manual Integration:

After

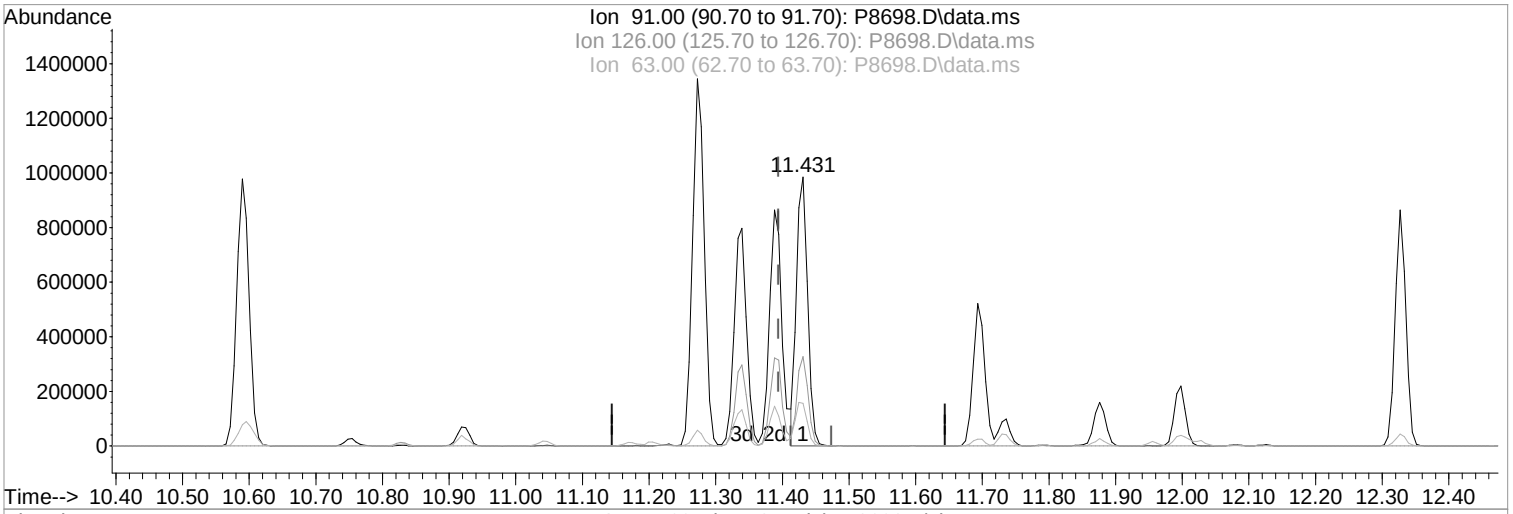
Wrong peak selected.

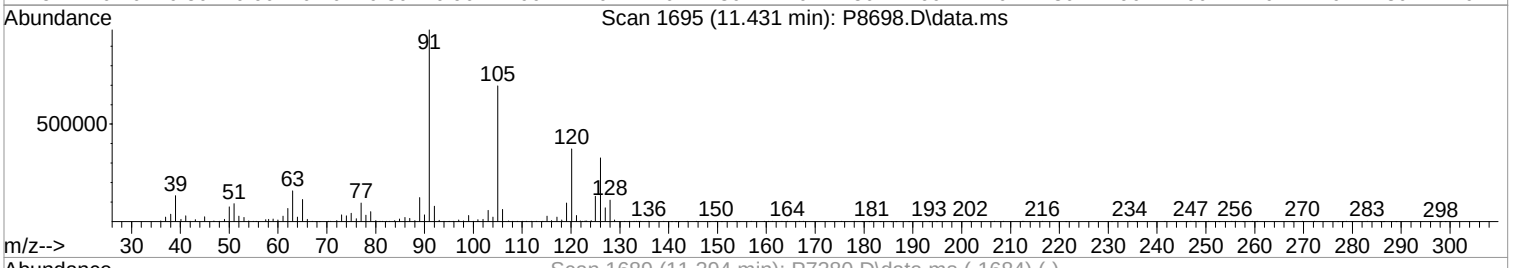
03/27/17

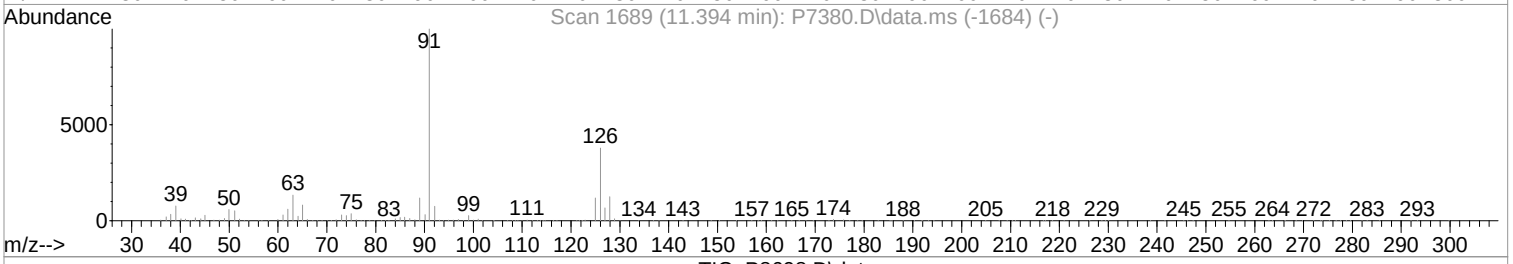
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 09:42:35 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8698.D\data.ms

(97) 3-Chlorotoluene

11.431min (+0.037) 57.99 ppb

response 1151164

Ion	Exp%	Act%
91.00	100	100
126.00	37.70	33.21
63.00	13.50	15.91
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 15:51:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.725	168	783652	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1315884	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1217467	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	630342	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	393219	55.38	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.76%				
48) surr1,1,2-dichloroetha...	6.084	65	445989	56.57	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 113.14%				
65) SURR3,Toluene-d8	8.523	98	1629610	55.51	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.02%				
70) SURR2,BFB	11.047	95	579819	50.97	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	457328	47.96	ppb		99
3) Chloromethane	1.341	50	427000	49.97	ppb		94
4) Vinyl Chloride	1.427	62	443344	58.58	ppb		97
5) Bromomethane	1.683	94	155235	40.59	ppb		99
6) Chloroethane	1.762	64	222038	55.38	ppb		95
7) Freon 21	1.921	67	551072	57.52	ppb		96
8) Trichlorofluoromethane	1.969	101	480378	56.68	ppb		98
9) Diethyl Ether	2.225	59	205109	56.96	ppb		90
10) Freon 123a	2.231	67	350949	59.02	ppb		99
11) Freon 123	2.286	83	397106	57.94	ppb		93
12) Acrolein	2.329	56	28647	48.30	ppb		94
13) 1,1-Diclethene	2.427	96	283025	50.98	ppb		93
14) Freon 113	2.433	101	292362	48.75	ppb		95
15) Acetone	2.475	43	64128	55.71	ppb		96
16) 2-Propanol	2.634	45	197685	1017.04	ppb		97
17) Iodomethane	2.567	142	442584	54.33	ppb		93
18) Carbon Disulfide	2.628	76	832830	49.21	ppb		97
19) Acetonitrile	2.744	40	48935	296.38	ppb		99
20) Allyl Chloride	2.786	76	139947	42.27	ppb		93
21) Methyl Acetate	2.817	43	115594	42.13	ppb		96
22) Methylene Chloride	2.914	84	339295	55.77	ppb		97
23) TBA	3.073	59	362009	1125.51	ppb		86
24) Acrylonitrile	3.195	53	350288	260.86	ppb		99
25) Methyl-t-Butyl Ether	3.256	73	746330	50.98	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	328541	51.06	ppb		97
28) 1,1-Diclethane	3.780	63	609579	56.58	ppb		97
29) Vinyl Acetate	3.896	86	34546	32.93	ppb	#	80
30) DIPE	3.932	45	1105049	55.21	ppb		97
31) 2-Chloro-1,3-Butadiene	3.914	53	449173	48.66	ppb		95
32) ETBE	4.512	59	926524	54.61	ppb		98
33) 2,2-Dichloropropane	4.694	77	290139	34.17	ppb		98
34) cis-1,2-Dichloroethene	4.707	96	376242	54.91	ppb		99
35) 2-Butanone	4.755	43	90008	53.17	ppb		96
36) Propionitrile	4.847	54	125549	244.94	ppb		88
37) Bromochloromethane	5.133	130	212896	56.86	ppb		94
38) Methacrylonitrile	5.139	67	73281	43.86	ppb		92
39) Tetrahydrofuran	5.231	42	47906	44.17	ppb		98
40) Chloroform	5.316	83	590822	56.38	ppb		98
41) 1,1,1-Trichloroethane	5.584	97	486096	52.91	ppb		98

1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 15:51:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	830832	55.44	ppb	97
44) Cyclohexane	5.664	41	312049	45.34	ppb	98
46) Carbontetrachloride	5.847	121	119097	49.13	ppb	100
47) 1,1-Dichloropropene	5.859	75	456260	52.05	ppb	96
49) Benzene	6.158	78	1318864	56.64	ppb	98
50) 1,2-Dichloroethane	6.200	62	427203	51.93	ppb	93
51) Iso-Butyl Alcohol	6.194	43	152227	1048.40	ppb	87
52) n-Heptane	6.627	43	236362	30.14	ppb	92
53) 1-Butanol	7.102	56	241602	2867.84	ppb	97
54) Trichloroethene	7.072	130	368460	54.23	ppb	98
55) Methylcyclohexane	7.304	55	303702	37.88	ppb	97
56) 1,2-Diclpropane	7.346	63	341099	51.72	ppb	99
57) Dibromomethane	7.487	93	177698	53.18	ppb	90
58) 1,4-Dioxane	7.541	88	40494m	912.48	ppb	
59) Methyl Methacrylate	7.566	69	143881	45.52	ppb	89
60) Bromodichloromethane	7.706	83	427428	52.74	ppb	94
61) 2-Nitropropane	7.974	41	88858	138.51	ppb	99
63) cis-1,3-Dichloropropene	8.230	75	471117	49.57	ppb	93
64) 4-Methyl-2-pentanone	8.431	43	220655	53.20	ppb	95
66) Toluene	8.596	91	1492204	54.75	ppb	99
67) trans-1,3-Dichloropropene	8.858	75	382152	49.00	ppb	94
68) Ethyl Methacrylate	8.992	69	312804	51.84	ppb	99
69) 1,1,2-Trichloroethane	9.041	97	254117	54.95	ppb	96
72) Tetrachloroethene	9.175	164	288999	54.73	ppb	97
73) 2-Hexanone	9.322	43	141818	51.73	ppb	97
74) 1,3-Dichloropropane	9.206	76	450376	54.67	ppb	98
75) Dibromochloromethane	9.425	129	285497	60.66	ppb	96
76) N-Butyl Acetate	9.474	43	275306	41.15	ppb	96
77) 1,2-Dibromoethane	9.523	107	252303	58.77	ppb	83
78) Chlorobenzene	10.010	112	940231	54.96	ppb	98
79) 3-CBTF	10.029	180	424412	43.85	ppb	99
80) 4-CBTF	10.078	180	384465	43.28	ppb	94
81) 1,1,1,2-Tetrachloroethane	10.096	131	332353	59.09	ppb	92
82) Ethylbenzene	10.126	106	524088	55.11	ppb	96
83) (m+p)Xylene	10.236	106	1236175	110.27	ppb	97
84) o-Xylene	10.590	106	597000	53.44	ppb	99
85) Styrene	10.602	104	837962	44.87	ppb	97
87) Bromoform	10.754	173	153804	62.57	ppb	98
88) 2-CBTF	10.833	180	421020	48.56	ppb	94
89) Isopropylbenzene	10.925	105	1454500	56.46	ppb	100
90) Cyclohexanone	10.980	55	122647	270.61	ppb	92
91) trans-1,4-Dichloro-2-B...	11.224	53	40382	33.67	ppb	91
92) 1,1,2,2-Tetrachloroethane	11.175	83	307170	62.31	ppb	95
93) Bromobenzene	11.169	156	376628	53.84	ppb	96
94) 1,2,3-Trichloropropane	11.205	110	87183	55.24	ppb	93
95) n-Propylbenzene	11.272	91	1651719	55.53	ppb	99
96) 2-Chlorotoluene	11.339	91	1021334	57.05	ppb	98
97) 3-Chlorotoluene	11.388	91	1086297m	54.72	ppb	
98) 4-Chlorotoluene	11.431	91	1152448	55.21	ppb	99
99) 1,3,5-Trimethylbenzene	11.425	105	1133542	50.75	ppb	99
100) tert-Butylbenzene	11.693	119	933333	51.05	ppb	98
101) 1,2,4-Trimethylbenzene	11.736	105	1166454	50.89	ppb	95
102) 3,4-DCBTF	11.791	214	253495	37.73	ppb	91
103) sec-Butylbenzene	11.876	105	1281947	47.72	ppb	98
104) p-Isopropyltoluene	11.998	119	1075641	47.83	ppb	96
105) 1,3-Dclbenz	11.955	146	686214	51.33	ppb	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 15:51:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	12.028	146	699198	50.11	ppb		94
107) 2,4-DCBTF	12.083	214	234464	37.89	ppb		99
108) 2,5-DCBTF	12.120	214	278216	42.38	ppb		92
109) n-Butylbenzene	12.327	91	966851	47.14	ppb		97
110) 1,2-Dclbenz	12.333	146	665258	53.21	ppb		97
111) 1,2-Dibromo-3-chloropr...	12.949	157	52543	54.52	ppb	#	85
112) Trielution Dichlorotol...	13.071	125	1499369	139.39	ppb		97
113) 1,3,5 Trichlorobenzene	13.126	180	394949	41.42	ppb		94
114) Coelution Dichlorotoluene	13.400	125	1106145	95.18	ppb		99
115) 1,2,4-Tcbenzene	13.607	180	354672	42.75	ppb		95
116) Hexachlorobt	13.741	225	127345	33.70	ppb		95
117) Naphthalen	13.796	128	801054	52.31	ppb		98
118) 1,2,3-Tclbenzene	13.985	180	300417	43.98	ppb		97
119) 2,4,5-Trichlorotolene	14.564	159	189124	35.63	ppb		96
120) 2,3,6-Trichlorotoluene	14.650	159	186174	42.13	ppb		95

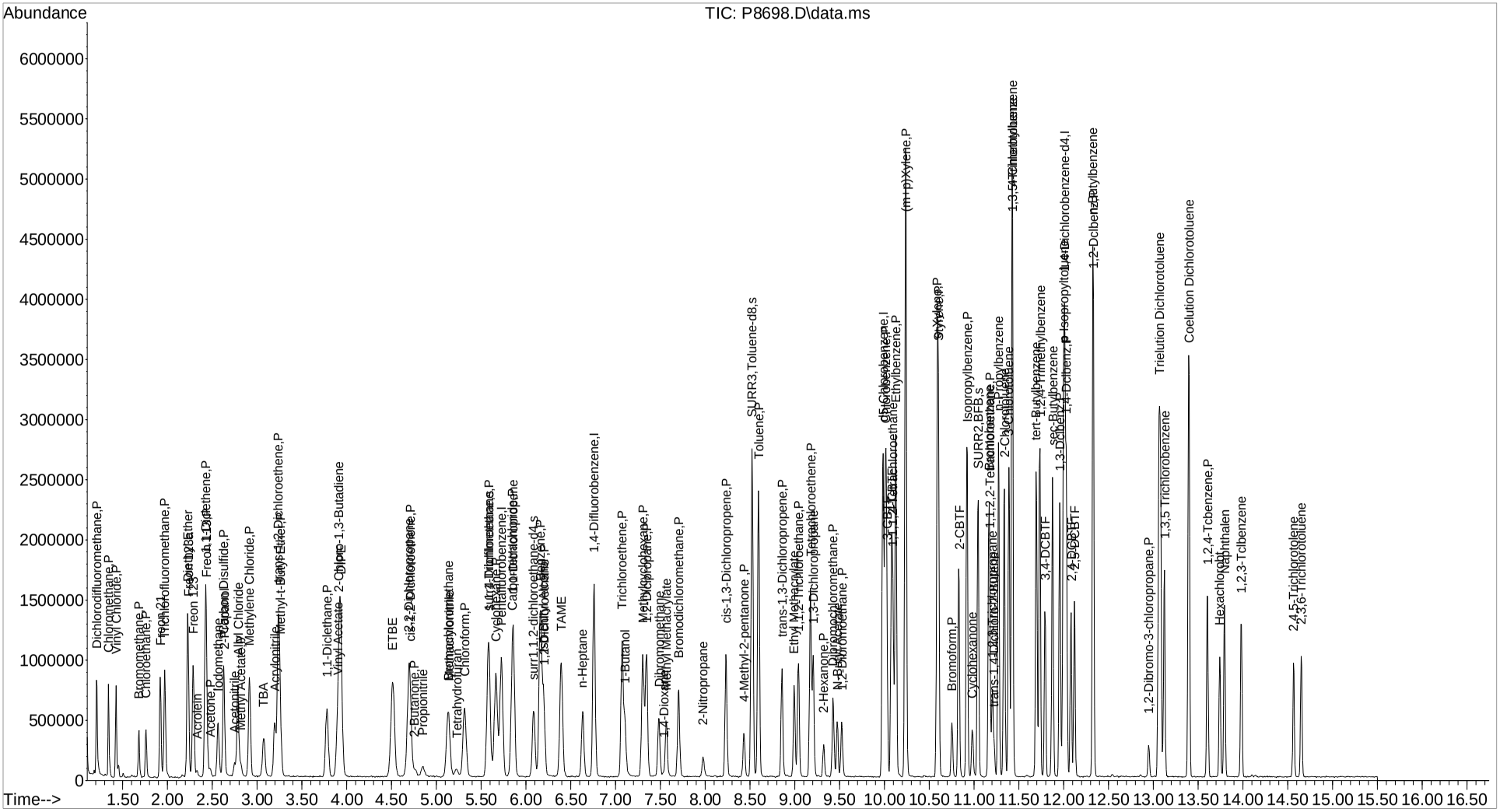
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 03/27/17
2nd 03/28/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8698.D
Acq On : 25 Mar 2017 7:41 am
Operator : K.Ruest
Sample : R1702492-005MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 27 15:51:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

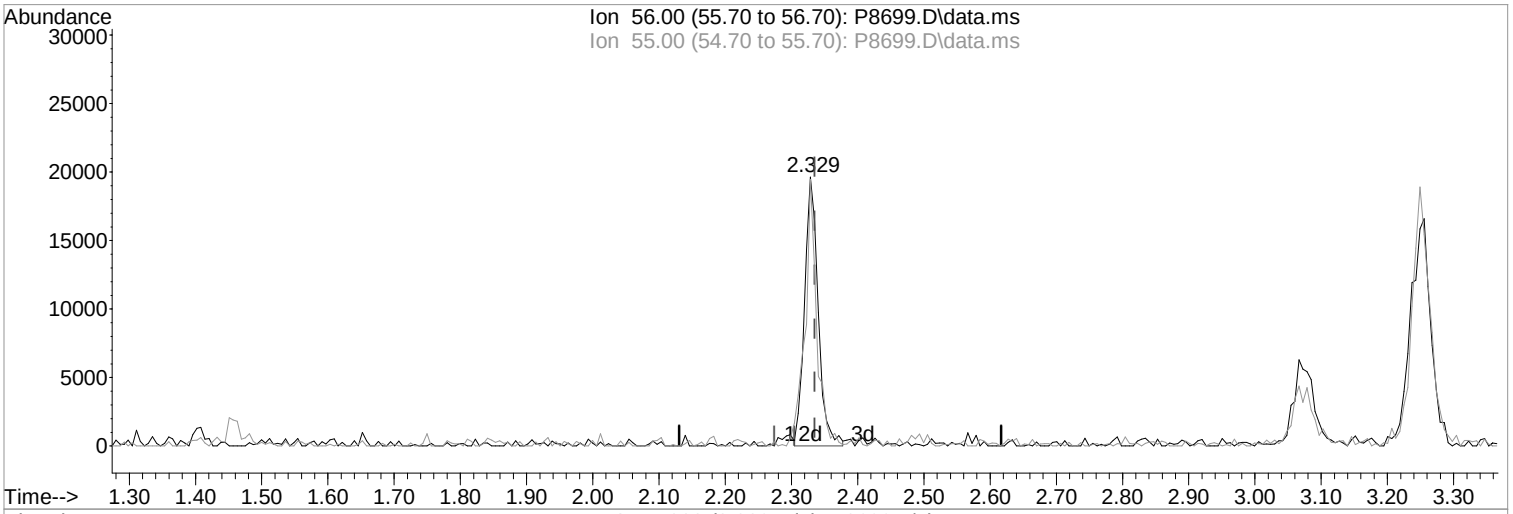


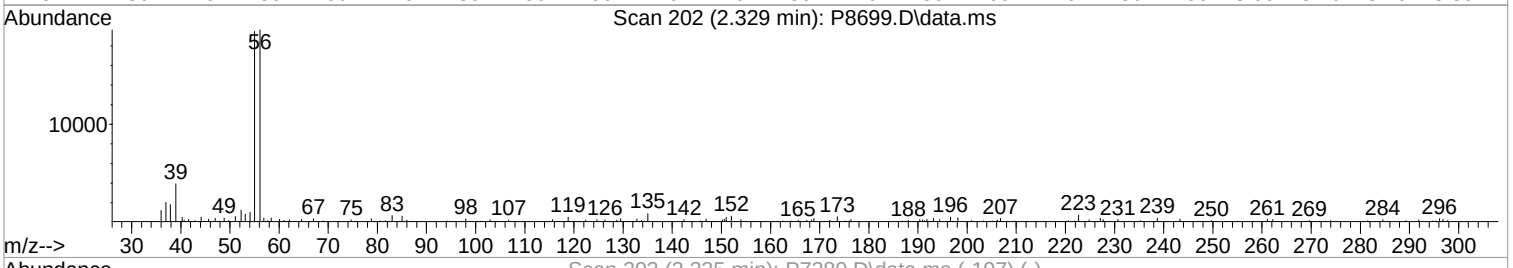
1st 03/27/17
2nd 03/28/17

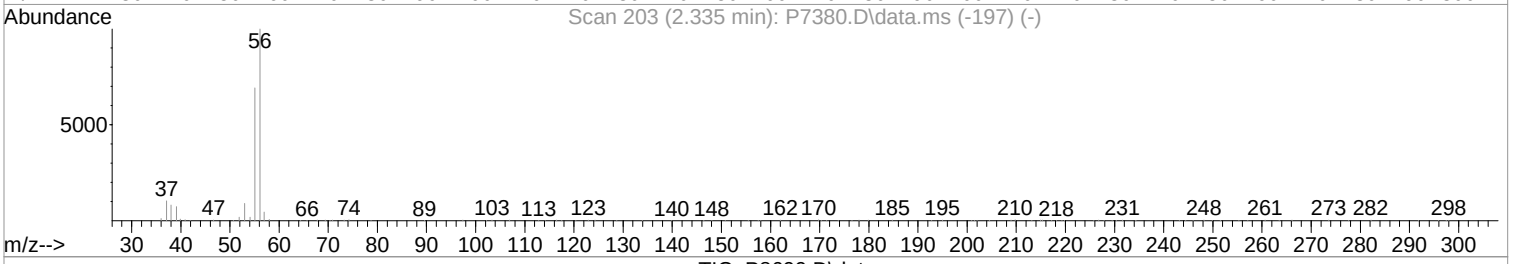
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8699.D
Acq On : 25 Mar 2017 8:11 am
Operator : K.Ruest
Sample : R1702492-005DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 27 09:42:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8699.D\data.ms

(12) Acrolein

2.329min (-0.006) 45.09 ppb m

response 28218

Ion	Exp%	Act%
56.00	100	100
55.00	69.60	99.10#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

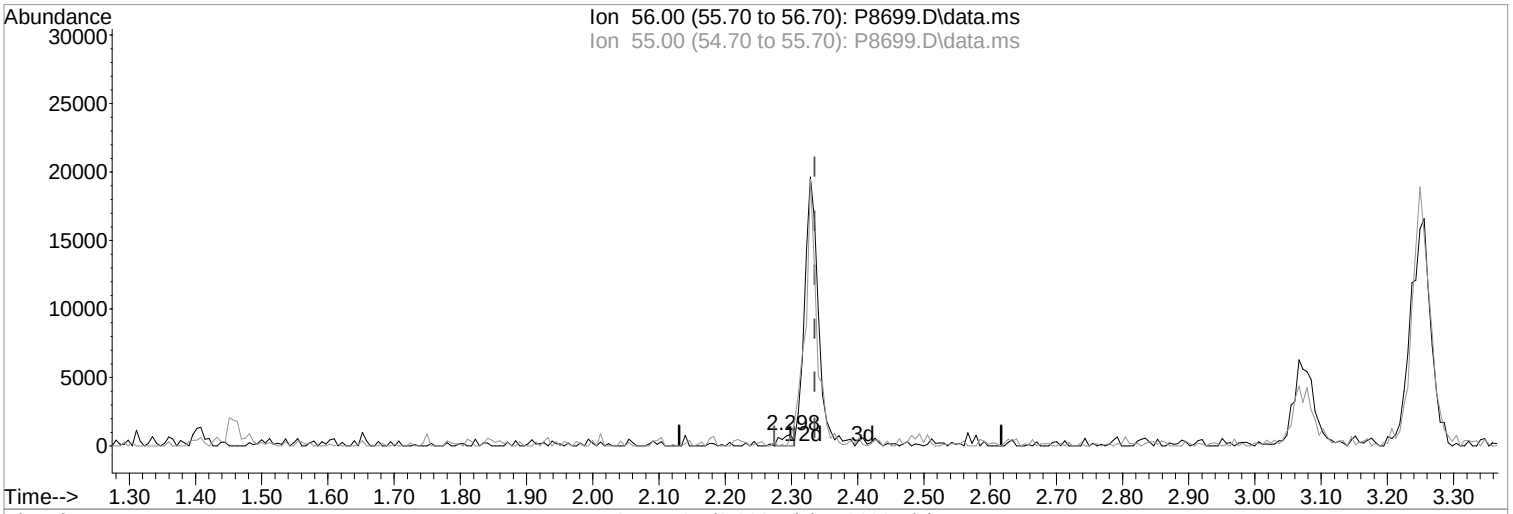
03/27/17

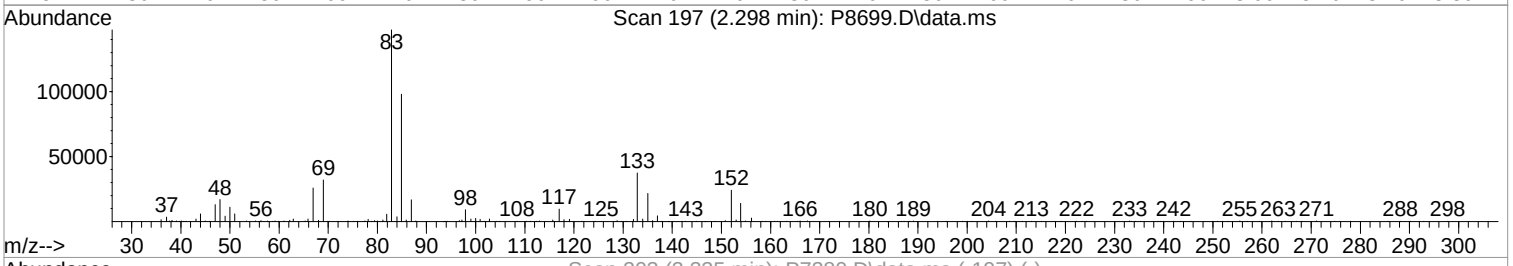
1st 03/27/17
2nd 03/28/17

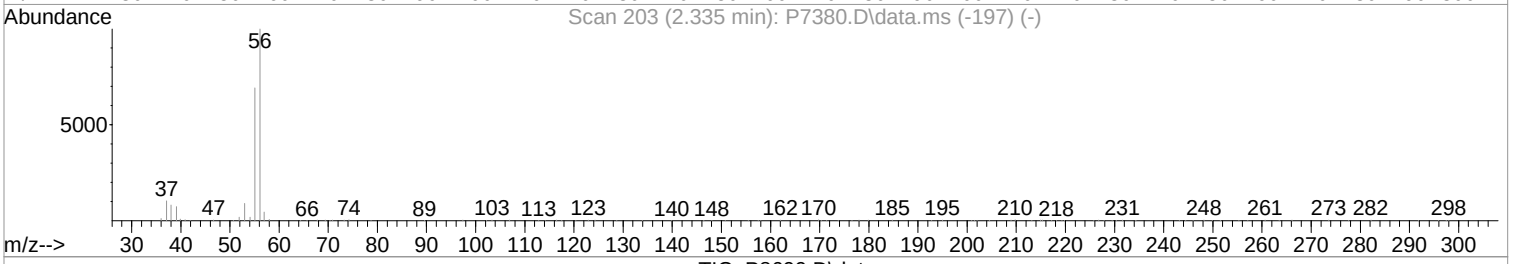
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8699.D
Acq On : 25 Mar 2017 8:11 am
Operator : K.Ruest
Sample : R1702492-005DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 27 09:42:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration







TIC: P8699.D\data.ms

(12) Acrolein

2.298min (-0.037) 1.77 ppb

response 1108

Ion	Exp%	Act%
56.00	100	100
55.00	69.60	67.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

03/27/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8699.D
Acq On : 25 Mar 2017 8:11 am
Operator : K.Ruest
Sample : R1702492-005DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 27 15:52:13 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.724	168	826987	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1359298	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1228220	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	657959	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.578	113	404299	55.12	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.24%				
48) surr1,1,2-dichloroetha...	6.084	65	441654	54.23	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.46%				
65) SURR3,Toluene-d8	8.523	98	1643001	54.18	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.36%				
70) SURR2,BFB	11.040	95	591017	50.30	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	487403	48.44	ppb		96
3) Chloromethane	1.341	50	423004	46.91	ppb		97
4) Vinyl Chloride	1.426	62	462928	57.96	ppb		98
5) Bromomethane	1.683	94	164600	40.78	ppb		94
6) Chloroethane	1.762	64	220073	52.02	ppb		96
7) Freon 21	1.920	67	554394	54.84	ppb		98
8) Trichlorofluoromethane	1.969	101	507727	56.76	ppb		100
9) Diethyl Ether	2.219	59	198407	52.21	ppb		95
10) Freon 123a	2.231	67	373812	59.57	ppb		97
11) Freon 123	2.286	83	419772	58.03	ppb		97
12) Acrolein	2.329	56	28218m	45.09	ppb		
13) 1,1-Diclethene	2.426	96	309692	52.86	ppb		94
14) Freon 113	2.432	101	307188	48.54	ppb		96
15) Acetone	2.475	43	60907	50.14	ppb		99
16) 2-Propanol	2.627	45	207314	1010.69	ppb		99
17) Iodomethane	2.560	142	461947	53.73	ppb		88
18) Carbon Disulfide	2.627	76	652425	36.53	ppb		99
19) Acetonitrile	2.743	40	52289	300.10	ppb		87
20) Allyl Chloride	2.786	76	113607	32.52	ppb		95
21) Methyl Acetate	2.816	43	108027	37.31	ppb		94
22) Methylene Chloride	2.914	84	330825	51.53	ppb		94
23) TBA	3.072	59	334167	984.51	ppb		95
24) Acrylonitrile	3.200	53	348144	245.67	ppb		86
25) Methyl-t-Butyl Ether	3.249	73	746627	48.33	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	335415	49.39	ppb		92
28) 1,1-Diclethane	3.780	63	621944	54.70	ppb		96
29) Vinyl Acetate	3.889	86	43801	39.56	ppb	#	88
30) DIPE	3.932	45	1116169	52.84	ppb		96
31) 2-Chloro-1,3-Butadiene	3.914	53	526605	54.06	ppb		99
32) ETBE	4.517	59	941460	52.58	ppb		98
33) 2,2-Dichloropropane	4.688	77	321327	35.86	ppb		90
34) cis-1,2-Dichloroethene	4.700	96	382828	52.94	ppb		93
35) 2-Butanone	4.767	43	82960	46.44	ppb		95
36) Propionitrile	4.853	54	121636	224.87	ppb		91
37) Bromochloromethane	5.127	130	214161	54.20	ppb		88
38) Methacrylonitrile	5.139	67	87474	49.61	ppb	#	80
39) Tetrahydrofuran	5.224	42	50590	44.20	ppb		90
40) Chloroform	5.310	83	589768	53.33	ppb		97
41) 1,1,1-Trichloroethane	5.584	97	511096	52.71	ppb		97

1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8699.D
Acq On : 25 Mar 2017 8:11 am
Operator : K.Ruest
Sample : R1702492-005DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 27 15:52:13 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.389	73	839309	53.07	ppb	94
44) Cyclohexane	5.663	41	317498	44.66	ppb	95
46) Carbontetrachloride	5.846	121	120350	48.06	ppb	96
47) 1,1-Dichloropropene	5.859	75	481185	53.14	ppb	98
49) Benzene	6.157	78	1346185	55.97	ppb	97
50) 1,2-Dichloroethane	6.200	62	424346	49.93	ppb	99
51) Iso-Butyl Alcohol	6.188	43	151643	1011.02	ppb	89
52) n-Heptane	6.633	43	236954	29.25	ppb	91
53) 1-Butanol	7.102	56	222815	2560.36	ppb	96
54) Trichloroethene	7.072	130	378394	53.91	ppb	97
55) Methylcyclohexane	7.303	55	322724	38.97	ppb	97
56) 1,2-Diclpropane	7.346	63	344956	50.63	ppb	99
57) Dibromomethane	7.480	93	180376	52.26	ppb	93
58) 1,4-Dioxane	7.547	88	36458	788.46	ppb	81
59) Methyl Methacrylate	7.566	69	161763	49.55	ppb	92
60) Bromodichloromethane	7.706	83	425829	50.86	ppb	97
61) 2-Nitropropane	7.980	41	83448	125.92	ppb	94
63) cis-1,3-Dichloropropene	8.230	75	383230	39.04	ppb	92
64) 4-Methyl-2-pentanone	8.431	43	202881	47.35	ppb	99
66) Toluene	8.596	91	1539807	54.69	ppb	96
67) trans-1,3-Dichloropropene	8.858	75	308932	38.35	ppb	97
68) Ethyl Methacrylate	8.992	69	349374	56.05	ppb	98
69) 1,1,2-Trichloroethane	9.041	97	254927	53.36	ppb	98
72) Tetrachloroethene	9.175	164	292314	54.87	ppb	91
73) 2-Hexanone	9.321	43	138346	50.03	ppb	92
74) 1,3-Dichloropropane	9.205	76	450125	54.16	ppb	93
75) Dibromochloromethane	9.431	129	270649	57.00	ppb	97
76) N-Butyl Acetate	9.474	43	275278	40.79	ppb	95
77) 1,2-Dibromoethane	9.522	107	246949	57.02	ppb	89
78) Chlorobenzene	10.010	112	975142	56.50	ppb	95
79) 3-CBTF	10.028	180	446503	45.73	ppb	95
80) 4-CBTF	10.077	180	400143	44.65	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.095	131	326851	57.61	ppb	98
82) Ethylbenzene	10.126	106	533238	55.58	ppb	97
83) (m+p)Xylene	10.236	106	1283098	113.45	ppb	96
84) o-Xylene	10.589	106	631530	56.04	ppb	100
85) Styrene	10.601	104	968129	51.39	ppb	95
87) Bromoform	10.754	173	137444	54.15	ppb	95
88) 2-CBTF	10.833	180	447548	49.46	ppb	98
89) Isopropylbenzene	10.925	105	1452246	54.00	ppb	100
90) Cyclohexanone	10.979	55	123071	260.15	ppb	97
91) trans-1,4-Dichloro-2-B...	11.223	53	31364	25.17	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.175	83	292380	56.82	ppb	95
93) Bromobenzene	11.168	156	384742	52.70	ppb	96
94) 1,2,3-Trichloropropane	11.205	110	83351	50.59	ppb	91
95) n-Propylbenzene	11.272	91	1700377	54.77	ppb	98
96) 2-Chlorotoluene	11.339	91	1040582	55.68	ppb	97
97) 3-Chlorotoluene	11.388	91	1120579	54.08	ppb	98
98) 4-Chlorotoluene	11.431	91	1235373	56.69	ppb	99
99) 1,3,5-Trimethylbenzene	11.425	105	1154588	49.53	ppb	98
100) tert-Butylbenzene	11.699	119	967708	50.71	ppb	100
101) 1,2,4-Trimethylbenzene	11.735	105	1206403	50.43	ppb	98
102) 3,4-DCBTF	11.796	214	263300	37.55	ppb	97
103) sec-Butylbenzene	11.876	105	1299104	46.33	ppb	99
104) p-Isopropyltoluene	11.998	119	1130234	48.15	ppb	99
105) 1,3-Dclbenz	11.961	146	703901	50.44	ppb	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8699.D
Acq On : 25 Mar 2017 8:11 am
Operator : K.Ruest
Sample : R1702492-005DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 27 15:52:13 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	12.028	146	735263	50.48	ppb		100
107) 2,4-DCBTF	12.083	214	255319	39.53	ppb		89
108) 2,5-DCBTF	12.119	214	272116	39.71	ppb	#	89
109) n-Butylbenzene	12.327	91	994037	46.43	ppb		97
110) 1,2-Dclbenz	12.333	146	681816	52.25	ppb		93
111) 1,2-Dibromo-3-chloropr...	12.949	157	49378	49.09	ppb		86
112) Trielution Dichlorotol...	13.071	125	1559587	138.90	ppb		98
113) 1,3,5 Trichlorobenzene	13.125	180	413827	41.58	ppb		92
114) Coelution Dichlorotoluene	13.400	125	1133607	93.45	ppb		99
115) 1,2,4-Tcbenzene	13.607	180	384701	44.42	ppb		98
116) Hexachlorobt	13.747	225	143423	36.37	ppb		93
117) Naphthalen	13.796	128	808631	50.58	ppb		99
118) 1,2,3-Tclbenzene	13.985	180	317851	44.58	ppb		96
119) 2,4,5-Trichlorotolene	14.564	159	235067	42.43	ppb		92
120) 2,3,6-Trichlorotoluene	14.656	159	221628	48.05	ppb		95

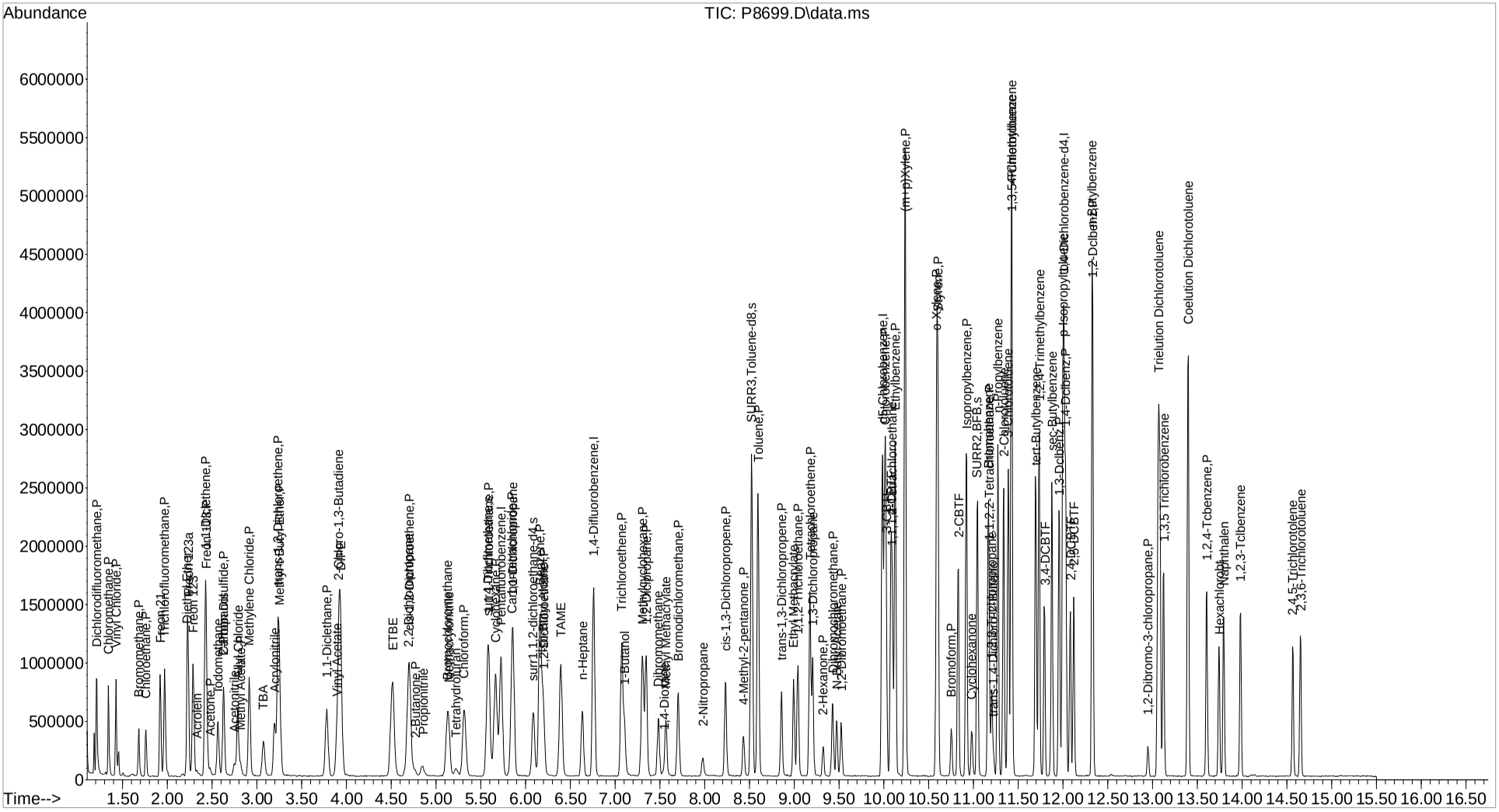
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8699.D
Acq On : 25 Mar 2017 8:11 am
Operator : K.Ruest
Sample : R1702492-005DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 27 15:52:13 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

1st 03/27/17
2nd 03/28/17



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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	105	0.00
2	P	Dichlorodifluoromethane	0.6084	0.5440	10.6	89	0.00
3	P	Chloromethane	0.5452	0.5053	7.3	101	0.00
4	P	Vinyl Chloride	0.4829	0.4460	7.6	90	0.00
5	P	Bromomethane	0.2440	0.1684	NT 31.0#	66	0.00
6	P	Chloroethane	0.2558	0.2602	-1.7	103	0.00
7		Freon 21	0.6113	0.5937	2.9	108	0.00
8	P	Trichlorofluoromethane	0.5408	0.5756	-6.4	109	0.00
9		Diethyl Ether	0.2298	0.2371	-3.2	103	0.00
10		Freon 123a	0.3794	0.3721	1.9	113	0.00
11		Freon 123	0.4373	0.4271	2.3	107	0.00
12		Acrolein	0.0378	0.0168	NT 55.6#	47#	0.00
13	P	1,1-Diclethene	0.3542	0.3669	-3.6	111	0.00
14	P	Freon 113	0.3827	0.3692	3.5	99	0.00
15	P	Acetone	0.0734	0.0836	-13.9	127	0.00
16		2-Propanol	0.0124	0.0124	0.0	104	0.00
17		Iodomethane	0.5198	0.4798	7.7	91	0.00
18	P	Carbon Disulfide	1.0798	1.0669	1.2	99	0.00
19		Acetonitrile	0.0105	0.0117	-11.4	112	0.00
20		Allyl Chloride	0.2112	0.2099	0.6	105	0.00
21	P	Methyl Acetate	0.1751	0.1860	-6.2	108	0.00
22	P	Methylene Chloride	0.3882	0.3706	4.5	104	0.00
23		TBA	0.0205	0.0209	-2.0	102	0.00
24		Acrylonitrile	0.0857	0.0902	-5.3	106	0.00
25	P	Methyl-t-Butyl Ether	0.9340	0.9160	1.9	103	0.00
26	P	trans-1,2-Dichloroethene	0.4106	0.3970	3.3	106	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-0.03
28	P	1,1-Diclethane	0.6874	0.6805	1.0	105	0.00
29		Vinyl Acetate	0.0669	0.0487	NT 27.2#	76	0.00
30		DIPE	1.2771	1.3046	-2.2	106	0.00
31		2-Chloro-1,3-Butadiene	0.5890	0.5558	5.6	97	0.00
32		ETBE	1.0826	1.1388	-5.2	107	0.00
33		2,2-Dichloropropane	0.5417	0.4535	16.3	86	0.00
34	P	cis-1,2-Dichloroethene	0.4372	0.4402	-0.7	110	0.00
35	P	2-Butanone	0.1080	0.1009	6.6	101	0.00
36		Propionitrile	0.0327	0.0304	7.0	111	-0.01
37		Bromochloromethane	0.2389	0.2367	0.9	101	-0.01
38		Methacrylonitrile	0.1066	0.1084	-1.7	113	0.00
39		Tetrahydrofuran	0.0692	0.0702	-1.4	109	0.00
40	P	Chloroform	0.6686	0.6392	4.4	101	0.00
41	P	1,1,1-Trichloroethane	0.5862	0.5671	3.3	105	0.00
42		TAME	0.9562	0.9960	-4.2	104	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	107	0.00
44	P	Cyclohexane	0.2615	0.2089	NT 20.1#	97	0.00
45	s	surr4,Dibrflmethane	0.2698	0.2980	-10.5	109	0.00
46	P	Carbontetrachloride	0.0921	0.0856	7.1	108	0.00
47		1,1-Dichloropropene	0.3331	0.3231	3.0	102	0.00
48	s	surr1,1,2-dichloroethane-d4	0.2996	0.3345	-11.6	110	0.00
49	P	Benzene	0.8847	0.9327	-5.4	112	0.00
50	P	1,2-Dichloroethane	0.3126	0.3004	3.9	105	0.00
51		Iso-Butyl Alcohol	0.0055	0.0061	-10.9	114	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		n-Heptane	0.2980	0.1884	NT 36.8#	66	0.00
53		1-Butanol	0.0032	0.0034	-6.2	111	0.00
54	P	Trichloroethene	0.2582	0.2664	-3.2	109	0.00
55	P	Methylcyclohexane	0.3047	0.2143	NT 29.7#	79	0.00
56	P	1,2-Diclpropane	0.2506	0.2492	0.6	108	0.00
57		Dibromomethane	0.1270	0.1247	1.8	105	0.00
58		1,4-Dioxane	0.0018	0.0015	-10.5 ~~-16.7~~	96	~~-0.01~~
59		Methyl Methacrylate	0.1201	0.1145	4.7	106	0.00
60	P	Bromodichloromethane	0.3080	0.2875	6.7	103	0.00
61		2-Nitropropane	0.0244	0.0307	NT -25.8#	174	0.00
62		2-Chloroethylvinyl Ether	0.1203	0.0978	18.7	86	0.00
63	P	cis-1,3-Dichloropropene	0.3611	0.3795	-5.1	106	0.00
64	P	4-Methyl-2-pentanone	0.1576	0.1470	6.7	98	0.00
65	s	SURR3,Toluene-d8	1.1155	1.2219	-9.5	104	0.00
66	P	Toluene	1.0357	1.0431	-0.7	103	0.00
67	P	trans-1,3-Dichloropropene	0.2963	0.3018	-1.9	100	0.00
68		Ethyl Methacrylate	0.2293	0.2510	-9.5	111	0.00
69	P	1,1,2-Trichloroethane	0.1757	0.1790	-1.9	106	0.00
70	s	SURR2,BFB	0.4322	0.4544	-5.1	98	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	100	0.00
72	P	Tetrachloroethene	0.2169	0.1958#	9.7	90	0.00
73	P	2-Hexanone	0.1126	0.1098	2.5	96	0.00
74		1,3-Dichloropropane	0.3384	0.3583	-5.9	107	0.00
75	P	Dibromochloromethane	0.1933	0.2238	-15.8	115	0.00
76		N-Butyl Acetate	0.2748	0.2890	-5.2	108	0.00
77	P	1,2-Dibromoethane	0.1763	0.1956	-10.9	109	0.00
78	P	Chlorobenzene	0.7026	0.7090	-0.9	102	0.00
79		3-CBTF	0.3975	0.3363	15.4	86	0.00
80		4-CBTF	0.3648	0.3040	16.7	84	0.00
81		1,1,1,2-Tetrachloroethane	0.2310	0.2453	-6.2	101	0.00
82	P	Ethylbenzene	0.3905	0.3836	1.8	100	0.00
83	P	(m+p)Xylene	0.4604	0.4593	0.2	97	0.00
84	P	o-Xylene	0.4588	0.4680	-2.0	101	0.00
85	P	Styrene	0.7670	0.8076	-5.3	99	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	91	0.00
87	P	Bromoform	0.1777	0.2134	~~-20.1#~~	104	0.00
88		2-CBTF	0.6877	0.6370	7.4	87	0.00
89	P	Isopropylbenzene	2.0435	2.0856	-2.1	92	0.00
90		Cyclohexanone	0.0360	0.0257	NT 28.6#	64	0.00
91		trans-1,4-Dichloro-2-Butene	0.1103	0.0973	~~-11.8~~	88	0.00
92	P	1,1,2,2-Tetrachloroethane	0.3911	0.3985	-1.9	97	0.00
93		Bromobenzene	0.5548	0.5573	-0.5	93	0.00
94		1,2,3-Trichloropropane	0.1252	0.1203	3.9	96	0.00
95		n-Propylbenzene	2.3593	2.3698	-0.4	86	0.00
96		2-Chlorotoluene	1.4201	1.4825	-4.4	93	0.00
97		3-Chlorotoluene	1.5746	1.5705	0.3	88	0.00
98		4-Chlorotoluene	1.6559	1.7737	-7.1	95	0.00
99		1,3,5-Trimethylbenzene	1.7716	1.6598	6.3	83	0.00
100		tert-Butylbenzene	1.4502	1.3022	10.2	76	0.00
101		1,2,4-Trimethylbenzene	1.8181	1.7479	3.9	85	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 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		3,4-DCBTF	0.5329	0.3948	NT	25.9#	67	0.00
103		sec-Butylbenzene	2.1311	1.8834		11.6	76	0.00
104		p-Isopropyltoluene	1.7837	1.5605		12.5	75	0.00
105	P	1,3-Dclbenz	1.0604	1.0209		3.7	86	0.00
106	P	1,4-Dclbenz	1.1069	1.0547		4.7	90	0.00
107		2,4-DCBTF	0.4909	0.3733	NT	24.0#	72	0.00
108		2,5-DCBTF	0.5207	0.4071	NT	21.8#	70	0.00
109		n-Butylbenzene	1.6268	1.3839	NT	14.9	72	0.00
110	P	1,2-Dclbenz	0.9917	0.9941		-0.2	92	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0764	0.0772		-1.0	101	0.00
112		Trielution Dichlorotoluene	0.8532	0.7451		12.7	76	0.00
113		1,3,5 Trichlorobenzene	0.7564	0.6140		18.8	75	0.00
114		Coelution Dichlorotoluene	0.9218	0.8278		10.2	78	0.00
115	P	1,2,4-Tcbenzene	0.6581	0.5345		18.8	74	0.00
116		Hexachlorobt	0.2997	0.1963	NT	34.5#	66	0.00
117		Naphthalen	1.2148	1.1909		2.0	87	0.00
118		1,2,3-Tclbenzene	0.5419	0.4517		16.6	75	0.00
119		2,4,5-Trichlorotolene	0.4210	0.2902	NT	31.1#	66	0.00
120		2,3,6-Trichlorotoluene	0.3505	0.2579	NT	26.4#	65	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	825556	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1358223	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1254929	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.010	152	658522	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	404703	55.22	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.44%				
48) surr1,1,2-dichloroetha...	6.084	65	454345	55.84	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.68%				
65) SURR3,Toluene-d8	8.523	98	1659674	54.77	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.54%				
70) SURR2,BFB	11.040	95	617226	52.57	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	449082	44.70	ppb		98
3) Chloromethane	1.341	50	417175	46.35	ppb		98
4) Vinyl Chloride	1.427	62	368184	46.18	ppb		96
5) Bromomethane	1.683	94	139012	34.50	ppb		98
6) Chloroethane	1.762	64	214826	50.86	ppb		96
7) Freon 21	1.920	67	490170	48.57	ppb		94
8) Trichlorofluoromethane	1.969	101	475208	53.22	ppb		94
9) Diethyl Ether	2.225	59	195701	51.59	ppb		93
10) Freon 123a	2.231	67	307167	49.03	ppb		97
11) Freon 123	2.286	83	352563	48.83	ppb		97
12) Acrolein	2.335	56	69361	111.02	ppb		81
13) 1,1-Diclethene	2.426	96	302895	51.79	ppb		93
14) Freon 113	2.432	101	304804	48.24	ppb		97
15) Acetone	2.481	43	69048	56.94	ppb		97
16) 2-Propanol	2.634	45	204324	997.84	ppb		99
17) Iodomethane	2.567	142	396129	46.16	ppb		97
18) Carbon Disulfide	2.627	76	880752	49.40	ppb		98
19) Acetonitrile	2.756	40	48492	278.79	ppb		87
20) Allyl Chloride	2.786	76	173287	49.69	ppb		96
21) Methyl Acetate	2.816	43	153520	53.12	ppb		99
22) Methylene Chloride	2.914	84	305949	47.74	ppb		97
23) TBA	3.079	59	345069	1018.39	ppb		88
24) Acrylonitrile	3.201	53	372173	263.09	ppb		90
25) Methyl-t-Butyl Ether	3.255	73	756199	49.03	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	327721	48.35	ppb		98
28) 1,1-Diclethane	3.780	63	561821	49.50	ppb		97
29) Vinyl Acetate	3.889	86	40184	36.36	ppb	#	50
30) DIPE	3.938	45	1077020	51.08	ppb		97
31) 2-Chloro-1,3-Butadiene	3.914	53	458803	47.18	ppb		91
32) ETBE	4.511	59	940149	52.60	ppb		98
33) 2,2-Dichloropropane	4.694	77	374424	41.86	ppb		95
34) cis-1,2-Dichloroethene	4.712	96	363439	50.35	ppb		95
35) 2-Butanone	4.767	43	83272	46.69	ppb		93
36) Propionitrile	4.847	54	125492	232.40	ppb		94
37) Bromochloromethane	5.127	130	195438	49.55	ppb		94
38) Methacrylonitrile	5.145	67	89474	50.83	ppb		90
39) Tetrahydrofuran	5.231	42	57960	50.73	ppb		84
40) Chloroform	5.316	83	527707	47.80	ppb		98
41) 1,1,1-Trichloroethane	5.584	97	468188	48.37	ppb		96

1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	822218	52.08	ppb	99
44) Cyclohexane	5.670	41	283695	39.94	ppb	93
46) Carbontetrachloride	5.852	121	116274	46.47	ppb	96
47) 1,1-Dichloropropene	5.865	75	438831	48.50	ppb	94
49) Benzene	6.163	78	1266789	52.71	ppb	98
50) 1,2-Dichloroethane	6.200	62	408019	48.05	ppb	97
51) Iso-Butyl Alcohol	6.188	43	165745	1105.92	ppb	91
52) n-Heptane	6.639	43	255878	31.61	ppb	96
53) 1-Butanol	7.108	56	232406	2672.69	ppb	99
54) Trichloroethene	7.078	130	361829	51.59	ppb	96
55) Methylcyclohexane	7.303	55	291057	35.17	ppb	97
56) 1,2-Diclpropane	7.346	63	338407	49.71	ppb	93
57) Dibromomethane	7.486	93	169338	49.10	ppb	98
58) 1,4-Dioxane	7.541	88	39698	863.83	ppb	86
59) Methyl Methacrylate	7.566	69	155480	47.66	ppb	99
60) Bromodichloromethane	7.706	83	390448	46.67	ppb	96
61) 2-Nitropropane	7.980	41	83425	125.98	ppb	99
62) 2-Chloroethylvinyl Ether	8.102	63	132841	40.64	ppb	94
63) cis-1,3-Dichloropropene	8.236	75	515493	52.55	ppb	95
64) 4-Methyl-2-pentanone	8.431	43	199711	46.65	ppb	93
66) Toluene	8.596	91	1416730	50.36	ppb	96
67) trans-1,3-Dichloropropene	8.858	75	409864	50.92	ppb	96
68) Ethyl Methacrylate	8.992	69	340973	54.75	ppb	95
69) 1,1,2-Trichloroethane	9.041	97	243090	50.93	ppb	96
72) Tetrachloroethene	9.175	164	245771	45.15	ppb	93
73) 2-Hexanone	9.321	43	137782	48.76	ppb	80
74) 1,3-Dichloropropane	9.205	76	449608	52.94	ppb	97
75) Dibromochloromethane	9.431	129	280820	57.88	ppb	95
76) N-Butyl Acetate	9.474	43	362632	52.59	ppb	97
77) 1,2-Dibromoethane	9.522	107	245489	55.48	ppb	96
78) Chlorobenzene	10.010	112	889712	50.46	ppb	97
79) 3-CBTF	10.028	180	421986	42.30	ppb	93
80) 4-CBTF	10.077	180	381482	41.66	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.096	131	307815	53.10	ppb	99
82) Ethylbenzene	10.126	106	481383	49.11	ppb	97
83) (m+p)Xylene	10.236	106	1152775	99.76	ppb	100
84) o-Xylene	10.589	106	587342	51.01	ppb	97
85) Styrene	10.602	104	1013431	52.65	ppb	97
87) Bromoform	10.754	173	140498	55.23	ppb	99
88) 2-CBTF	10.833	180	419511	46.32	ppb	99
89) Isopropylbenzene	10.925	105	1373439	51.03	ppb	99
90) Cyclohexanone	10.980	55	339131	716.24	ppb	97
91) trans-1,4-Dichloro-2-B...	11.223	53	64093	50.51	ppb	99
92) 1,1,2,2-Tetrachloroethane	11.175	83	262419	50.95	ppb	98
93) Bromobenzene	11.169	156	366970	50.22	ppb	97
94) 1,2,3-Trichloropropane	11.205	110	79253	48.06	ppb	93
95) n-Propylbenzene	11.272	91	1560571	50.22	ppb	100
96) 2-Chlorotoluene	11.339	91	976257	52.20	ppb	99
97) 3-Chlorotoluene	11.388	91	1034215	49.87	ppb	97
98) 4-Chlorotoluene	11.431	91	1168038	53.56	ppb	100
99) 1,3,5-Trimethylbenzene	11.425	105	1093046	46.85	ppb	99
100) tert-Butylbenzene	11.699	119	857509	44.90	ppb	99
101) 1,2,4-Trimethylbenzene	11.735	105	1151031	48.07	ppb	99
102) 3,4-DCBTF	11.796	214	260005	37.04	ppb	93
103) sec-Butylbenzene	11.876	105	1240236	44.19	ppb	100
104) p-Isopropyltoluene	11.998	119	1027648	43.75	ppb	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration

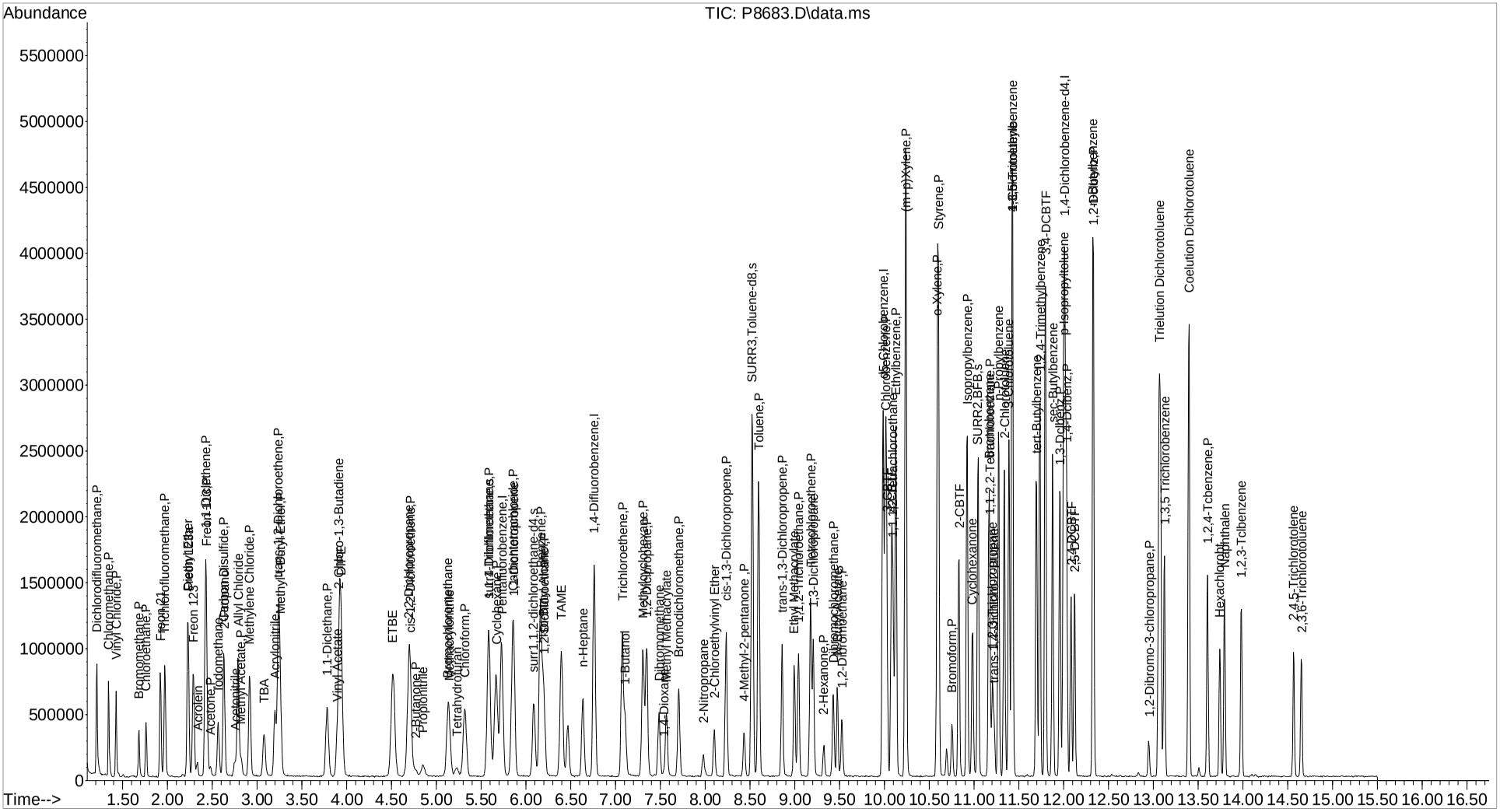
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	672302	48.14	ppb	97
106) 1,4-Dclbenz	12.034	146	694576	47.65	ppb	99
107) 2,4-DCBTF	12.083	214	245829	38.03	ppb	96
108) 2,5-DCBTF	12.126	214	268054	39.08	ppb	97
109) n-Butylbenzene	12.327	91	911333	42.53	ppb	100
110) 1,2-Dclbenz	12.333	146	654647	50.12	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.955	157	50856	50.52	ppb	94
112) Trielution Dichlorotol...	13.071	125	1471971	130.99	ppb	98
113) 1,3,5 Trichlorobenzene	13.125	180	404333	40.59	ppb	95
114) Coelution Dichlorotoluene	13.400	125	1090237	89.80	ppb	98
115) 1,2,4-Tcbenzene	13.607	180	351956	40.61	ppb	96
116) Hexachlorobt	13.741	225	129296	32.76	ppb	93
117) Naphthalen	13.796	128	784231	49.02	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	297475	41.68	ppb	98
119) 2,4,5-Trichlorotolene	14.564	159	191097	34.46	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	169826	36.79	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8683.D
Acq On : 25 Mar 2017 12:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 09:14:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jan 05 10:50:17 2017
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\032417\P8682.D
Tune Time : 24 Mar 2017 11:43 pm

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\032417\P8683.D

825556 1358220 1254930

658522

File	Sample	Surrogate Recovery %				Internal Standard Responses		
P8683.D								
	CCV	110	112	110	105	825556	1358223	1254929
				658522				
P8684.D								
	LCS	114	116	112	106	821817	1299667	1218486
				647894				
P8685.D								
	VBLK	110	111	111	105	813041	1307187	1182813
				633277				
P8686.D								
	VBLK	108	114	111	101	797418	1289089	1199107
				605271				
P8687.D								
	R1702492-0	107	114	106	100	788883	1308889	1191804
				609102				
P8688.D								
	R1702492-0	110	112	111	99	804404	1291955	1176852
				603202				
P8689.D								
	R1702492-0	109	112	110	102	797771	1276997	1184292
				603747				
P8690.D								
	R1702492-0	110	116	111	103	790256	1267855	1193807
				588525				
P8691.D								
	R1702492-0	109	113	112	102	771661	1276131	1187319
				601175				
P8692.D								
	R1702492-0	110	114	111	103	792854	1277379	1193817
				599143				
P8693.D								
	R1702492-0	108	117	111	103	791322	1273618	1186826
				587769				
P8694.D								
	R1702492-0	109	114	110	102	779556	1286645	1169249
				595669				
P8695.D								
	R1702492-0	108	110	109	102	789269	1287536	1164620
				601747				
P8696.D								

1st 03/27/17
2nd 03/28/17

```
         R1702492-0  107  115  112  100      785028    1285871    1179059
                                597366
-------------------------------------------------------------------------
P8697.D
         R1702492-0  108  113  110   99      796873    1270142    1158646
                                582818
-------------------------------------------------------------------------
P8698.D
         R1702492-0  111  113  111  102      783652    1315884    1217467
                                630342
-------------------------------------------------------------------------
P8699.D
         R1702492-0  110  108  108  101      826987    1359298    1228220
                                657959
-------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

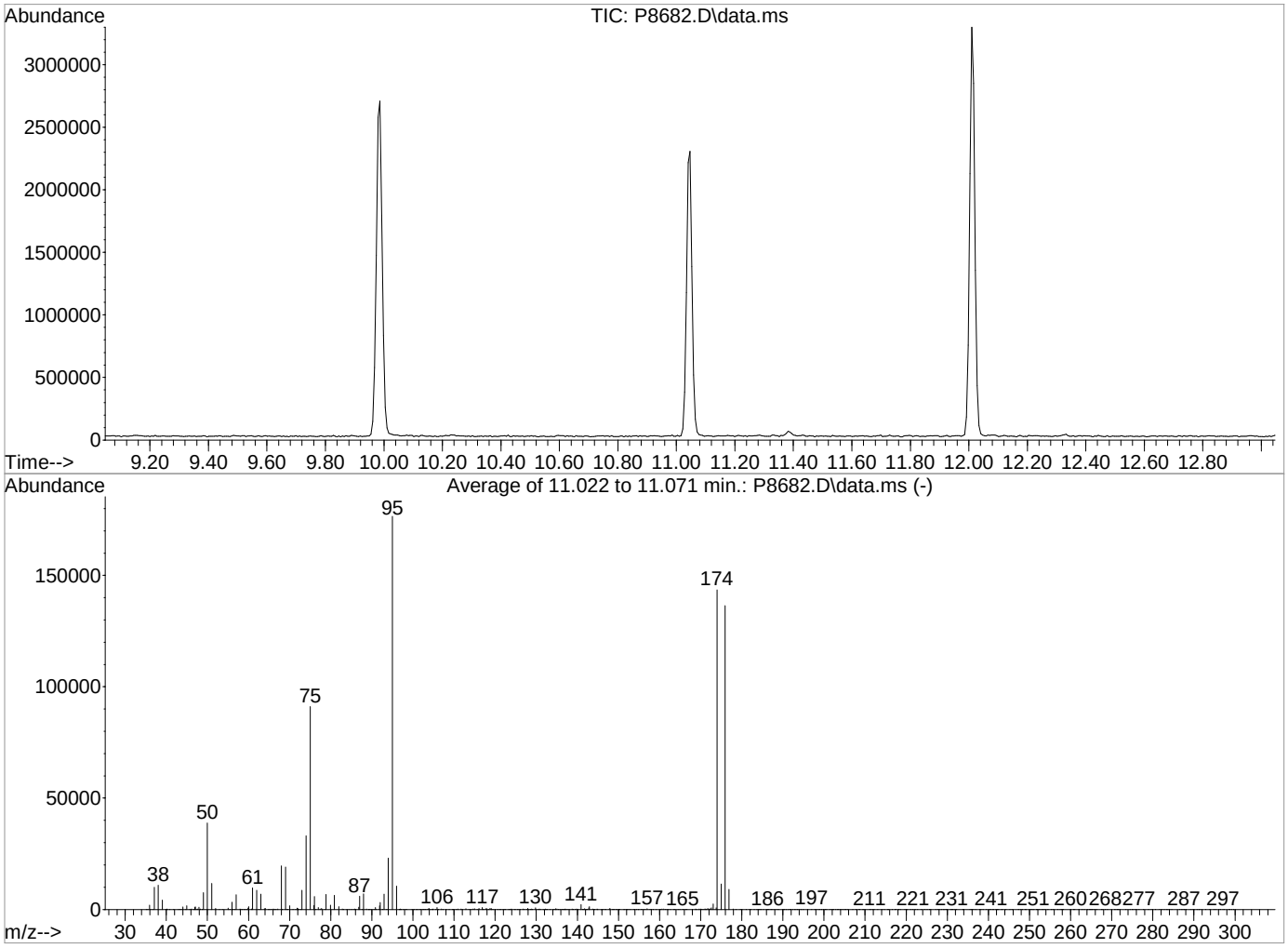
    Created: Mon Mar 27 09:58:43 2017  MSVOA-12
```

1st 03/27/17
2nd 03/28/17

Data Path : I:\ACQUDATA\msvoa12\Data\032417\
Data File : P8682.D
Acq On : 24 Mar 2017 11:43 pm
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W010417.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Thu Jan 05 10:50:17 2017



Spectrum Information: Average of 11.022 to 11.071 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	38882	PASS
75	95	30	60	51.6	91100	PASS
95	95	100	100	100.0	176573	PASS
96	95	5	9	6.0	10515	PASS
173	174	0.00	2	1.7	2423	PASS
174	95	50	120	81.3	143536	PASS
175	174	5	9	7.9	11391	PASS
176	174	95	101	95.1	136460	PASS
177	176	5	9	6.6	9019	PASS

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002

Service Request: R1702492
Date Analyzed: 03/25/17 00:13

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\032417\P8683.D\

Calibration Date: 1/4/2017
Calibration ID: RC1700007
Analysis Lot: 539313
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.4	0.5862	0.5671	-3.3	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.5	0.6874	0.6805	-1.0	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.8	0.3542	0.3669	3.6	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	45.2	0.2169	0.1958	-9.7	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.6	0.2582	0.2664	3.2	NA	±20	Average RF
Vinyl Chloride	50.0	46.2	0.4829	0.446	-7.6	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	50.4	0.4372	0.4402	0.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	48.4	0.4106	0.397	-3.3	NA	±20	Average RF
4-Bromofluorobenzene	50.0	52.6	0.4322	0.4544	5.1	NA	±20	Average RF
Dibromofluoromethane	50.0	55.2	0.2698	0.298	10.4	NA	±20	Average RF
Toluene-d8	50.0	54.8	1.1155	1.2219	9.5	NA	±20	Average RF

Client: Verina Consulting Group, LLC **Service Request:**R1702492
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**539313
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\032417\P8682.D\	ZZZZZZZ	ZZZZZZZ	3/24/2017	23:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8683.D\	Continuing Calibration Verification	RQ1702477-02	3/25/2017	00:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8684.D\	Lab Control Sample	RQ1702477-03	3/25/2017	00:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8686.D\	Method Blank	RQ1702477-04	3/25/2017	01:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8687.D\	FB-032017	R1702492-009	3/25/2017	02:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8688.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	02:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8689.D\	Trip Blank 2	R1702492-017	3/25/2017	03:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8690.D\	MW-2	R1702492-005	3/25/2017	03:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8691.D\	MW-14	R1702492-007	3/25/2017	04:13:00	
I:\ACQUDATA\msvoa12\Data\032417\P8692.D\	MW-25	R1702492-012	3/25/2017	04:43:00	
I:\ACQUDATA\msvoa12\Data\032417\P8694.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	05:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8696.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	06:42:00	
I:\ACQUDATA\msvoa12\Data\032417\P8697.D\	ZZZZZZZ	ZZZZZZZ	3/25/2017	07:12:00	
I:\ACQUDATA\msvoa12\Data\032417\P8698.D\	MW-2 MS	RQ1702477-05	3/25/2017	07:41:00	
I:\ACQUDATA\msvoa12\Data\032417\P8699.D\	MW-2 DMS	RQ1702477-06	3/25/2017	08:11:00	

Analysis: 8260 Waters | Analyst: KQuest | pH strips: 223016 | Tune Method: W010417

Date: 3/24/17 - Run#2 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. 12 | 50 mL Class A used for dilution FV | Syringes: 177417 | LIMS Run#: 539313

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
27	TUNE		RQ1702477-01					P86082	YT	whole peak (-1624) 23:43
28	CCV		02					P86083	YC	
29	LCS		03					P86084	YQ	
30	VBLK		—					P86085	(N)	rpt 4.0
31	↓		↓ 04					P86086	YB	
32	RQ1702492-009	1.0		7979	4	1	<2	P86087	Y	
33	016	1.0				1	(5)	P86088	Y	
34	017	1.0				1	<2	P86089	Y	
35	005	1.0				1	<2	P86090	Y	
36	007	1.0				1	<2	P86091	Y	
37	012	1.0				1	<2	P86092	Y	
38	008	2.5	20/50mls			1	(7)	P86093	(N)	weak rpt 2.0
39	011	10	5/50mls			1	(7)	P86094	(Y)	rpt 20
40	014	10				1	(7)	P86095	(N)	rpt 1.0
41	015	10				1	(7)	P86096	(Y)	rpt 20
42	010	10	↓			1	—	P86097	Y	*dil for matrix - dark purple
43	MS 005	1.0	RQ1702477-05			2	<2	P86098	YQ	
44	↓ MSD 005	1.0	↓ 06	↓	↓	3	<2	P86099	YQ	8:11 ✓
45	BLK					—	—	P85700	—	

EOD
KR 3/24/17

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Combined IS/Surr 500 : 180099

Surrogate :

Internal Std :

Reagents:

500 Primary Acct : 180103
Primary Frt : 180031 — 5ml → 50mls = Ccv
Primary HSL : 179914
Primary TB : 180030
Primary :

200 Secondary Acct : 179949 - 5ml
500 Secondary Frt : 180100
Secondary TB : 179975 — 2ml
Secondary HSL : 179563
Secondary : — 50mls = LCS

-10.6mL / 4.2mL

42mL vial = MS/D ✓

September 20, 2017 Service Request No:R1708647

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

Laboratory Results for: Dover - Kirkwood

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory September 14, 2017
For your reference, these analyses have been assigned our service request number **R1708647.**

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.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request:R1708647
Date Received:9/14/17

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

Eighteen water samples were received for analysis at ALS Environmental on 09/14/2017. 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 ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

No significant anomalies were noted with this analysis.

Approved by _____ Date 9/20/2017

SAMPLE DETECTION SUMMARY

CLIENT ID: MP-13	Lab ID: R1708647-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene (TCE)	0.26	J	0.22	1.0	ug/L	8260C

CLIENT ID: MW-31	Lab ID: R1708647-003					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene (TCE)	0.61	J	0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.44	J	0.30	1.0	ug/L	8260C

CLIENT ID: MW-13	Lab ID: R1708647-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	19		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	0.60	J	0.22	1.0	ug/L	8260C

CLIENT ID: MW-32	Lab ID: R1708647-005					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene (TCE)	0.30	J	0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.84	J	0.30	1.0	ug/L	8260C

CLIENT ID: MW-37	Lab ID: R1708647-007					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	1.1		0.30	1.0	ug/L	8260C

CLIENT ID: MW-30	Lab ID: R1708647-008					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene (TCE)	0.51	J	0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.59	J	0.30	1.0	ug/L	8260C

CLIENT ID: MP-8S	Lab ID: R1708647-009					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
1,1-Dichloroethene (1,1-DCE)	0.64	J	0.57	1.0	ug/L	8260C
Tetrachloroethene (PCE)	26		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	32		0.22	1.0	ug/L	8260C
Vinyl Chloride	0.74	J	0.32	1.0	ug/L	8260C
cis-1,2-Dichloroethene	78		0.30	1.0	ug/L	8260C
trans-1,2-Dichloroethene	4.9		0.33	1.0	ug/L	8260C

CLIENT ID: MW-26	Lab ID: R1708647-010					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	29		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	3.4		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	4.6		0.30	1.0	ug/L	8260C
trans-1,2-Dichloroethene	0.33	J	0.33	1.0	ug/L	8260C

CLIENT ID: MW-19	Lab ID: R1708647-011					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	23		0.30	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-19	Lab ID: R1708647-011					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene (TCE)	5.9		0.22	1.0	ug/L	8260C
Vinyl Chloride	0.60	J	0.32	1.0	ug/L	8260C
cis-1,2-Dichloroethene	11		0.30	1.0	ug/L	8260C
trans-1,2-Dichloroethene	0.49	J	0.33	1.0	ug/L	8260C

CLIENT ID: MW-27	Lab ID: R1708647-013					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	1.3		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	0.51	J	0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	11		0.30	1.0	ug/L	8260C

CLIENT ID: MP-6D	Lab ID: R1708647-014					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	0.33	J	0.30	1.0	ug/L	8260C

CLIENT ID: MW-38	Lab ID: R1708647-015					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	98		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	6.4		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.3		0.30	1.0	ug/L	8260C

CLIENT ID: MW-35	Lab ID: R1708647-016					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
cis-1,2-Dichloroethene	0.43	J	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

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1708647-001	Trip Blank	9/11/2017	
R1708647-002	MP-13	9/11/2017	1300
R1708647-003	MW-31	9/11/2017	1320
R1708647-004	MW-13	9/11/2017	1455
R1708647-005	MW-32	9/11/2017	1505
R1708647-006	EB-091117	9/11/2017	1547
R1708647-007	MW-37	9/12/2017	0820
R1708647-008	MW-30	9/12/2017	0825
R1708647-009	MP-8S	9/12/2017	0855
R1708647-010	MW-26	9/12/2017	0950
R1708647-011	MW-19	9/12/2017	1000
R1708647-012	MP-8D	9/12/2017	1020
R1708647-013	MW-27	9/12/2017	1110
R1708647-014	MP-6D	9/12/2017	1220
R1708647-015	MW-38	9/12/2017	1305
R1708647-016	MW-35	9/12/2017	1310
R1708647-017	EB-091217	9/12/2017	1545
R1708647-018	EB-091317	9/13/2017	1600

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 46771

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 4

Project Name: Dover - Kirkwood	Project Number: 5101,0002
Project Manager: Sarah MacCarter	Report CC:
Company/Address: Verina Consulting Group, LLC 1011 US Highway 22, Suite 302 Bridgewater NJ 08831	
Phone #: 908-864-4400	Email: smaccarter@vcg-llc.com
Sampler's Signature:	Sampler's Printed Name: Matt Gandy, Brian Hale

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,8

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other sodium thiosulfate

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOC's							REMARKS/ ALTERNATE DESCRIPTION
Trip Blank		—	—	TB	3								X							Headspace ***
MP-13		9/11/17	13:00	GW	3								X							
MW-31			13:20	GW	3								X							
MW-13			14:55	GW	3								X							*
MW-32			15:05	GW	3								X							*
EB-091117			15:47	EB	3								X							Equipment Blank
MW-37		9/12/17	8:20	GW	3								X							
MW-30			8:25	GW	3								X							
MP-8S			8:55	GW	3								X							**
MW-26			9:50	GW	3								X							*
MW-19			10:00	GW	3								X							

SPECIAL INSTRUCTIONS/COMMENTS
Metals

SSPL VOC's: PCE, TCE, cis-1,2-DCE
trans-1,2-DCE, 1,1-DCE, 1,1-DCA
1,1,1-TCA and VC
* Call if you have questions

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
REQUESTED REPORT DATE: Standard

REPORT REQUIREMENTS
___ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata X Yes ___ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Matt Gandy	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Verina	Firm:	Firm:	Firm:	Firm:	Firm:
Date/Time: 9/13/17 @ 17:00	Date/Time: 9/14/17 0940	Date/Time:	Date/Time:	Date/Time:	Date/Time:

R1708647
Verina Consulting Group, LLC
Dover - Kirkwood
5

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

46770

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Project Name: Dover - Kirkwood	Project Number: 5101.0002
Project Manager: Sarah ~~Tofaro~~ MacCarter	Report CC:
Company/Address: 1011 US Highway 22 - Suite 302 Bridgewater NJ, 08807 Verina Consulting Group, LLC	
Phone #: 908-864-4420	Email: ~~stofaro@vcg-llc.com~~ SMaccarter@vcg-llc.com
Sampler's Signature: MA Gy	Sampler's Printed Name: Matt Gandy, Brian Nale

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SSPL VOC's	REMARKS/ ALTERNATE DESCRIPTION
MP-8D		9/12/17	10:20	GW	3	X	
MW-27			11:10	GW	3	X	
MW-3 (MS/MSD)			11:15	GW	9	X	
MP-6D			12:20	GW	3	X	
MW-38			13:05	GW	3	X	
MW-35			13:10	GW	3	X	
MP-6S			14:05	GW	3	X	
IJ-1			14:40	GW	3	X	
IJ-10			14:40	GW	3	X	
EB-091217			15:45	EB	3	X	Equipment Blank
IJ-4		9/13/17	10:00	GW	3	X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Sodium Thiosulfate

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOC's, PCE, TCE, cis-1,2-DCE
trans-1,2-DCE, 1,1-DCE, 1,1-DCA
1,1,1-TCA and VC

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
REQUESTED REPORT DATE
Standard

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: MA Gy	Signature:	Signature	Signature	Signature	Signature
Printed Name: Matt Gandy	Printed Name:	Printed Name	Printed Name		
Firm: Verina	Firm:	Firm	Firm		
Date/Time: 9/13/17 @ 17:00	Date/Time: 9/14/17 0940	Date/Time	Date/Time		

R1708647 5
Verina Consulting Group, LLC
Dover - Kirkwood

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

46769

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Project Name: Dover-Kirkwood	Project Number: 5101,0002
Project Manager: Sarah MacCarter	Report CC:
Company/Address: Verina Consulting Group 1011 US Highway 22 Suite 302 Bridgewater NJ 08807	
Phone #: 908-864-4400	Email: smaccarter@vcg-llc.com
Sampler's Signature: MA	Sampler's Printed Name: Matt Gandy, Brian Nale

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1/8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOCs							REMARKS/ ALTERNATE DESCRIPTION
EB-091317		9/13/17	16:00	EB	3								X							Equipment Blanks

Preservative Key
0. NONE
1. HCl
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Sodium Thiosulfate

SPECIAL INSTRUCTIONS/COMMENTS

Metals SSPL VOCs: PCE, TCE, cis-1,2-DCE trans-1,2-DCE, 1,1-DCE, 1,1-DCA 1,1,1-TCA and VC

See QAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day

REQUESTED REPORT DATE: Standard

REPORT REQUIREMENTS

____ I. Results Only
__X__ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata __X__ Yes ____ No

INVOICE INFORMATION

PO #:

BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: MA	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Matt Gandy	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Verina	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 9/13/17 @ 17:00	Date/Time: 9/14/17 0940	Date/Time:	Date/Time:	Date/Time:	

R1708647 5
Verina Consulting Group, LLC
Dover - Kirkwood

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Cooler Receipt and Preservation Check Form

R1708647 5
Verina Consulting Group, LLC
Dover - Kirkwood

Project/Client Verina Folder Number R17-8647

Cooler received on 9/14/17 by: @

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 9/14/17 Time: 1013 ID: IR#7 (IR#8) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	1.5						
Correction Factor (°C)	+0.4						
Corrected Temp (°C)	1.9						
Temp from:Type of bottle	VOA vial						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed 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 @ on 9/14/17 at 1015
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 9/14/17 Time: 2318 by: DW

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 (N/A)
13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
		$Na_2S_2O_3$	-	-						
		ZnAcetate	-	-						
		HCl	**	**	4115022	9/18				

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

Bottle lot numbers: 6-258-001

Explain all Discrepancies/ Other Comments:

Headspace - see COC.

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

Labels secondary reviewed by: JN
PC Secondary Review: MM 9/15/17

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

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1708647-001.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1308	R-001-S12 / KRUEST	
R1708647-001.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-001.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-002.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-002.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-002.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-003.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-003.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-003.03					
		9/14/2017	2319	R-001 / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2017	2319	SMO / DWARD	
R1708647-004.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-004.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-004.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-005.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-005.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-005.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-006.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1308	R-001-S12 / KRUEST	
R1708647-006.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1708647-006.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-007.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-007.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-007.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-008.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-008.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-008.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-009.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-009.02					
		9/14/2017	2319	R-001 / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2017	2319	SMO / DWARD	
R1708647-009.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-010.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-010.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-010.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-011.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1310	R-001-S12 / KRUEST	
R1708647-011.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-011.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-012.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1708647-012.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-012.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-013.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-013.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-013.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-014.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-014.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-014.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-015.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-015.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-015.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-016.01					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
		9/18/2017	1139	In Lab / KRUEST	
R1708647-016.02					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/18/2017	1300	R-001-S12 / KRUEST	
R1708647-016.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-017.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1308	R-001-S12 / KRUEST	
R1708647-017.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-017.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1708647-018.01					
	8260C				
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
		9/15/2017	1258	In Lab / KRUEST	
		9/15/2017	1309	R-001-S12 / KRUEST	
R1708647-018.02					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	
R1708647-018.03					
		9/14/2017	2319	R-001 / DWARD	
		9/14/2017	2319	SMO / DWARD	

Miscellaneous Forms

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

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
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

[1] Analyses were performed according to our laboratoryôs 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

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.

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Sample Name: Trip Blank **Date Collected:** 09/11/17
Lab Code: R1708647-001 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MP-13 **Date Collected:** 09/11/17
Lab Code: R1708647-002 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-31 **Date Collected:** 09/11/17
Lab Code: R1708647-003 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-13 **Date Collected:** 09/11/17
Lab Code: R1708647-004 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-32 **Date Collected:** 09/11/17
Lab Code: R1708647-005 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Sample Name: EB-091117 **Date Collected:** 09/11/17
Lab Code: R1708647-006 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-37 **Date Collected:** 09/12/17
Lab Code: R1708647-007 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-30 **Date Collected:** 09/12/17
Lab Code: R1708647-008 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MP-8S **Date Collected:** 09/12/17
Lab Code: R1708647-009 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-26 **Date Collected:** 09/12/17
Lab Code: R1708647-010 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002

Sample Name: MW-19 **Date Collected:** 09/12/17
Lab Code: R1708647-011 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MP-8D **Date Collected:** 09/12/17
Lab Code: R1708647-012 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-27 **Date Collected:** 09/12/17
Lab Code: R1708647-013 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MP-6D **Date Collected:** 09/12/17
Lab Code: R1708647-014 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-38 **Date Collected:** 09/12/17
Lab Code: R1708647-015 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002		

Sample Name:	MW-35	**Date Collected:**	09/12/17
Lab Code:	R1708647-016	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	EB-091217	**Date Collected:**	09/12/17
Lab Code:	R1708647-017	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	EB-091317	**Date Collected:**	09/13/17
Lab Code:	R1708647-018	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

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

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

Volatile Organic Compounds by GC/MS

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

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1708647-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 22:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 22:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 22:49	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 22:49	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 22:49	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 22:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 22:49	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 22:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/15/17 22:49	
Dibromofluoromethane	96	89 - 119	09/15/17 22:49	
Toluene-d8	98	87 - 121	09/15/17 22:49	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 13:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-13	**Units:**	ug/L
Lab Code:	R1708647-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 00:16	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 00:16	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 00:16	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/16/17 00:16	
Trichloroethene (TCE)	**0.26**	**J**	1.0	0.22	1	09/16/17 00:16	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 00:16	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/16/17 00:16	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 00:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/16/17 00:16	
Dibromofluoromethane	97	89 - 119	09/16/17 00:16	
Toluene-d8	101	87 - 121	09/16/17 00:16	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 13:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-31	**Units:**	ug/L
Lab Code:	R1708647-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 00:38	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 00:38	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 00:38	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/16/17 00:38	
Trichloroethene (TCE)	**0.61**	**J**	1.0	0.22	1	09/16/17 00:38	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 00:38	
cis-1,2-Dichloroethene	**0.44**	**J**	1.0	0.30	1	09/16/17 00:38	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 00:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 00:38	
Dibromofluoromethane	95	89 - 119	09/16/17 00:38	
Toluene-d8	99	87 - 121	09/16/17 00:38	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 14:55
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R1708647-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 01:00	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 01:00	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 01:00	
Tetrachloroethene (PCE)	**19**		1.0	0.30	1	09/16/17 01:00	
Trichloroethene (TCE)	**0.60**	**J**	1.0	0.22	1	09/16/17 01:00	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 01:00	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/16/17 01:00	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 01:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 01:00	
Dibromofluoromethane	98	89 - 119	09/16/17 01:00	
Toluene-d8	99	87 - 121	09/16/17 01:00	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 15:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-32	**Units:**	ug/L
Lab Code:	R1708647-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 01:22	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 01:22	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 01:22	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/16/17 01:22	
Trichloroethene (TCE)	**0.30**	**J**	1.0	0.22	1	09/16/17 01:22	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 01:22	
cis-1,2-Dichloroethene	**0.84**	**J**	1.0	0.30	1	09/16/17 01:22	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 01:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 01:22	
Dibromofluoromethane	99	89 - 119	09/16/17 01:22	
Toluene-d8	98	87 - 121	09/16/17 01:22	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 15:47
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	EB-091117	**Units:**	ug/L
Lab Code:	R1708647-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 23:10	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 23:10	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 23:10	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 23:10	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 23:10	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 23:10	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 23:10	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 23:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/15/17 23:10	
Dibromofluoromethane	95	89 - 119	09/15/17 23:10	
Toluene-d8	97	87 - 121	09/15/17 23:10	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 08:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-37	**Units:**	ug/L
Lab Code:	R1708647-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 01:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 01:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 01:44	
Tetrachloroethene (PCE)	**1.1**	1.0	0.30	1	09/16/17 01:44	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/16/17 01:44	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/16/17 01:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/16/17 01:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/16/17 01:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 01:44	
Dibromofluoromethane	96	89 - 119	09/16/17 01:44	
Toluene-d8	99	87 - 121	09/16/17 01:44	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 08:25
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-30	**Units:**	ug/L
Lab Code:	R1708647-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 02:06	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 02:06	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 02:06	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/16/17 02:06	
Trichloroethene (TCE)	**0.51**	**J**	1.0	0.22	1	09/16/17 02:06	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 02:06	
cis-1,2-Dichloroethene	**0.59**	**J**	1.0	0.30	1	09/16/17 02:06	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 02:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 02:06	
Dibromofluoromethane	100	89 - 119	09/16/17 02:06	
Toluene-d8	98	87 - 121	09/16/17 02:06	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 08:55
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-8S	**Units:**	ug/L
Lab Code:	R1708647-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 02:28	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 02:28	
1,1-Dichloroethene (1,1-DCE)	**0.64**	**J**	1.0	0.57	1	09/16/17 02:28	
Tetrachloroethene (PCE)	**26**		1.0	0.30	1	09/16/17 02:28	
Trichloroethene (TCE)	**32**		1.0	0.22	1	09/16/17 02:28	
Vinyl Chloride	**0.74**	**J**	1.0	0.32	1	09/16/17 02:28	
cis-1,2-Dichloroethene	**78**		1.0	0.30	1	09/16/17 02:28	
trans-1,2-Dichloroethene	**4.9**		1.0	0.33	1	09/16/17 02:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	09/16/17 02:28	
Dibromofluoromethane	94	89 - 119	09/16/17 02:28	
Toluene-d8	96	87 - 121	09/16/17 02:28	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 09:50
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-26	**Units:**	ug/L
Lab Code:	R1708647-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 02:50	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 02:50	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 02:50	
Tetrachloroethene (PCE)	**29**		1.0	0.30	1	09/16/17 02:50	
Trichloroethene (TCE)	**3.4**		1.0	0.22	1	09/16/17 02:50	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 02:50	
cis-1,2-Dichloroethene	**4.6**		1.0	0.30	1	09/16/17 02:50	
trans-1,2-Dichloroethene	**0.33**	**J**	1.0	0.33	1	09/16/17 02:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/16/17 02:50	
Dibromofluoromethane	97	89 - 119	09/16/17 02:50	
Toluene-d8	100	87 - 121	09/16/17 02:50	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 10:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R1708647-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 03:12	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 03:12	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 03:12	
Tetrachloroethene (PCE)	**23**		1.0	0.30	1	09/16/17 03:12	
Trichloroethene (TCE)	**5.9**		1.0	0.22	1	09/16/17 03:12	
Vinyl Chloride	**0.60**	**J**	1.0	0.32	1	09/16/17 03:12	
cis-1,2-Dichloroethene	**11**		1.0	0.30	1	09/16/17 03:12	
trans-1,2-Dichloroethene	**0.49**	**J**	1.0	0.33	1	09/16/17 03:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/16/17 03:12	
Dibromofluoromethane	92	89 - 119	09/16/17 03:12	
Toluene-d8	97	87 - 121	09/16/17 03:12	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 10:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-8D	**Units:**	ug/L
Lab Code:	R1708647-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 03:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 03:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 03:34	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/16/17 03:34	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/16/17 03:34	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/16/17 03:34	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/16/17 03:34	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/16/17 03:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 03:34	
Dibromofluoromethane	98	89 - 119	09/16/17 03:34	
Toluene-d8	97	87 - 121	09/16/17 03:34	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 11:10
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-27	**Units:**	ug/L
Lab Code:	R1708647-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 03:55	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 03:55	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 03:55	
Tetrachloroethene (PCE)	**1.3**		1.0	0.30	1	09/16/17 03:55	
Trichloroethene (TCE)	**0.51**	**J**	1.0	0.22	1	09/16/17 03:55	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 03:55	
cis-1,2-Dichloroethene	**11**		1.0	0.30	1	09/16/17 03:55	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 03:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 03:55	
Dibromofluoromethane	95	89 - 119	09/16/17 03:55	
Toluene-d8	98	87 - 121	09/16/17 03:55	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 12:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-6D	**Units:**	ug/L
Lab Code:	R1708647-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 04:17	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 04:17	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 04:17	
Tetrachloroethene (PCE)	**0.33**	**J**	1.0	0.30	1	09/16/17 04:17	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	09/16/17 04:17	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 04:17	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/16/17 04:17	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 04:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/16/17 04:17	
Dibromofluoromethane	102	89 - 119	09/16/17 04:17	
Toluene-d8	100	87 - 121	09/16/17 04:17	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 13:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-38	**Units:**	ug/L
Lab Code:	R1708647-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 04:39	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 04:39	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 04:39	
Tetrachloroethene (PCE)	**98**	1.0	0.30	1	09/16/17 04:39	
Trichloroethene (TCE)	**6.4**	1.0	0.22	1	09/16/17 04:39	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/16/17 04:39	
cis-1,2-Dichloroethene	**1.3**	1.0	0.30	1	09/16/17 04:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/16/17 04:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 04:39	
Dibromofluoromethane	100	89 - 119	09/16/17 04:39	
Toluene-d8	100	87 - 121	09/16/17 04:39	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 13:10
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-35	**Units:**	ug/L
Lab Code:	R1708647-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/18/17 12:33	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/18/17 12:33	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/18/17 12:33	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/18/17 12:33	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	09/18/17 12:33	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/18/17 12:33	
cis-1,2-Dichloroethene	**0.43**	**J**	1.0	0.30	1	09/18/17 12:33	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/18/17 12:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/18/17 12:33	
Dibromofluoromethane	98	89 - 119	09/18/17 12:33	
Toluene-d8	99	87 - 121	09/18/17 12:33	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 15:45
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	EB-091217	**Units:**	ug/L
Lab Code:	R1708647-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 23:32	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 23:32	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 23:32	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 23:32	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 23:32	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 23:32	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 23:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 23:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/15/17 23:32	
Dibromofluoromethane	95	89 - 119	09/15/17 23:32	
Toluene-d8	97	87 - 121	09/15/17 23:32	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 16:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	EB-091317	**Units:**	ug/L
Lab Code:	R1708647-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 23:54	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 23:54	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 23:54	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 23:54	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 23:54	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 23:54	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 23:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 23:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/15/17 23:54	
Dibromofluoromethane	96	89 - 119	09/15/17 23:54	
Toluene-d8	98	87 - 121	09/15/17 23:54	

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
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
www.alsglobal.com

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 89 - 119	Toluene-d8 87 - 121
Trip Blank	R1708647-001	97	96	98
MP-13	R1708647-002	98	97	101
MW-31	R1708647-003	95	95	99
MW-13	R1708647-004	94	98	99
MW-32	R1708647-005	95	99	98
EB-091117	R1708647-006	95	95	97
MW-37	R1708647-007	94	96	99
MW-30	R1708647-008	94	100	98
MP-8S	R1708647-009	91	94	96
MW-26	R1708647-010	98	97	100
MW-19	R1708647-011	92	92	97
MP-8D	R1708647-012	95	98	97
MW-27	R1708647-013	94	95	98
MP-6D	R1708647-014	96	102	100
MW-38	R1708647-015	95	100	100
MW-35	R1708647-016	92	98	99
EB-091217	R1708647-017	92	95	97
EB-091317	R1708647-018	95	96	98
Lab Control Sample	RQ1709319-03	97	100	99
Duplicate Lab Control Sample	RQ1709319-04	97	101	99
Method Blank	RQ1709319-05	94	98	99
Lab Control Sample	RQ1709391-03	96	102	96
Method Blank	RQ1709391-04	95	100	101

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	09/15/17 22:27
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1709319-05	**File ID:**	I:\ACQUDATA\msvoa12\Data\091517\P12118.D\
Analysis Method:	8260C	**Analysis Lot:**	561774
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1709319-03	I:\ACQUDATA\msvoa12\Data\091517\P12115.D\	09/15/17 21:21
Duplicate Lab Control Sample	RQ1709319-04	I:\ACQUDATA\msvoa12\Data\091517\P12116.D\	09/15/17 21:43
Trip Blank	R1708647-001	I:\ACQUDATA\msvoa12\Data\091517\P12119.D\	09/15/17 22:49
EB-091117	R1708647-006	I:\ACQUDATA\msvoa12\Data\091517\P12120.D\	09/15/17 23:10
EB-091217	R1708647-017	I:\ACQUDATA\msvoa12\Data\091517\P12121.D\	09/15/17 23:32
EB-091317	R1708647-018	I:\ACQUDATA\msvoa12\Data\091517\P12122.D\	09/15/17 23:54
MP-13	R1708647-002	I:\ACQUDATA\msvoa12\Data\091517\P12123.D\	09/16/17 00:16
MW-31	R1708647-003	I:\ACQUDATA\msvoa12\Data\091517\P12124.D\	09/16/17 00:38
MW-13	R1708647-004	I:\ACQUDATA\msvoa12\Data\091517\P12125.D\	09/16/17 01:00
MW-32	R1708647-005	I:\ACQUDATA\msvoa12\Data\091517\P12126.D\	09/16/17 01:22
MW-37	R1708647-007	I:\ACQUDATA\msvoa12\Data\091517\P12127.D\	09/16/17 01:44
MW-30	R1708647-008	I:\ACQUDATA\msvoa12\Data\091517\P12128.D\	09/16/17 02:06
MP-8S	R1708647-009	I:\ACQUDATA\msvoa12\Data\091517\P12129.D\	09/16/17 02:28
MW-26	R1708647-010	I:\ACQUDATA\msvoa12\Data\091517\P12130.D\	09/16/17 02:50
MW-19	R1708647-011	I:\ACQUDATA\msvoa12\Data\091517\P12131.D\	09/16/17 03:12
MP-8D	R1708647-012	I:\ACQUDATA\msvoa12\Data\091517\P12132.D\	09/16/17 03:34
MW-27	R1708647-013	I:\ACQUDATA\msvoa12\Data\091517\P12133.D\	09/16/17 03:55
MP-6D	R1708647-014	I:\ACQUDATA\msvoa12\Data\091517\P12134.D\	09/16/17 04:17
MW-38	R1708647-015	I:\ACQUDATA\msvoa12\Data\091517\P12135.D\	09/16/17 04:39

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	09/18/17 12:05
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1709391-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\091817\P12143.D\
Analysis Method:	8260C	**Analysis Lot:**	561975
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1709391-03	I:\ACQUDATA\msvoa12\Data\091817\P12141.D\	09/18/17 11:06
MW-35	R1708647-016	I:\ACQUDATA\msvoa12\Data\091817\P12144.D\	09/18/17 12:33

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1709319-05	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 22:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 22:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 22:27	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 22:27	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 22:27	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 22:27	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 22:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 22:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/15/17 22:27	
Dibromofluoromethane	98	89 - 119	09/15/17 22:27	
Toluene-d8	99	87 - 121	09/15/17 22:27	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1709391-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/18/17 12:05	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/18/17 12:05	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/18/17 12:05	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/18/17 12:05	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/18/17 12:05	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/18/17 12:05	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/18/17 12:05	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/18/17 12:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/18/17 12:05	
Dibromofluoromethane	100	89 - 119	09/18/17 12:05	
Toluene-d8	101	87 - 121	09/18/17 12:05	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	09/15/17 21:21
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1709319-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\091517\P12115.D\
Analysis Method:	8260C	**Analysis Lot:**	561774
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Duplicate Lab Control Sample	RQ1709319-04	I:\ACQUDATA\msvoa12\Data\091517\P12116.D\	09/15/17 21:43
Method Blank	RQ1709319-05	I:\ACQUDATA\msvoa12\Data\091517\P12118.D\	09/15/17 22:27
Trip Blank	R1708647-001	I:\ACQUDATA\msvoa12\Data\091517\P12119.D\	09/15/17 22:49
EB-091117	R1708647-006	I:\ACQUDATA\msvoa12\Data\091517\P12120.D\	09/15/17 23:10
EB-091217	R1708647-017	I:\ACQUDATA\msvoa12\Data\091517\P12121.D\	09/15/17 23:32
EB-091317	R1708647-018	I:\ACQUDATA\msvoa12\Data\091517\P12122.D\	09/15/17 23:54
MP-13	R1708647-002	I:\ACQUDATA\msvoa12\Data\091517\P12123.D\	09/16/17 00:16
MW-31	R1708647-003	I:\ACQUDATA\msvoa12\Data\091517\P12124.D\	09/16/17 00:38
MW-13	R1708647-004	I:\ACQUDATA\msvoa12\Data\091517\P12125.D\	09/16/17 01:00
MW-32	R1708647-005	I:\ACQUDATA\msvoa12\Data\091517\P12126.D\	09/16/17 01:22
MW-37	R1708647-007	I:\ACQUDATA\msvoa12\Data\091517\P12127.D\	09/16/17 01:44
MW-30	R1708647-008	I:\ACQUDATA\msvoa12\Data\091517\P12128.D\	09/16/17 02:06
MP-8S	R1708647-009	I:\ACQUDATA\msvoa12\Data\091517\P12129.D\	09/16/17 02:28
MW-26	R1708647-010	I:\ACQUDATA\msvoa12\Data\091517\P12130.D\	09/16/17 02:50
MW-19	R1708647-011	I:\ACQUDATA\msvoa12\Data\091517\P12131.D\	09/16/17 03:12
MP-8D	R1708647-012	I:\ACQUDATA\msvoa12\Data\091517\P12132.D\	09/16/17 03:34
MW-27	R1708647-013	I:\ACQUDATA\msvoa12\Data\091517\P12133.D\	09/16/17 03:55
MP-6D	R1708647-014	I:\ACQUDATA\msvoa12\Data\091517\P12134.D\	09/16/17 04:17
MW-38	R1708647-015	I:\ACQUDATA\msvoa12\Data\091517\P12135.D\	09/16/17 04:39

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Analyzed:**	09/18/17 11:06
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1709391-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\091817\P12141.D\
Analysis Method:	8260C	**Analysis Lot:**	561975
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1709391-04	I:\ACQUDATA\msvoa12\Data\091817\P12143.D\	09/18/17 12:05
MW-35	R1708647-016	I:\ACQUDATA\msvoa12\Data\091817\P12144.D\	09/18/17 12:33

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1708647
Date Analyzed: 09/18/17

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1709391-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.0	20.0	95	74-120
1,1-Dichloroethane (1,1-DCA)	8260C	19.6	20.0	98	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	18.4	20.0	92	74-135
Tetrachloroethene (PCE)	8260C	20.2	20.0	101	78-124
Trichloroethene (TCE)	8260C	20.1	20.0	100	78-123
Vinyl Chloride	8260C	23.3	20.0	116	69-133
cis-1,2-Dichloroethene	8260C	19.4	20.0	97	80-121
trans-1,2-Dichloroethene	8260C	20.2	20.0	101	80-120

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1708647
Date Analyzed: 09/15/17

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

Units:ug/L
Basis:NA

		Lab Control Sample RQ1709319-03			Duplicate Lab Control Sample RQ1709319-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	8260C	21.5	20.0	107	18.2	20.0	91	74-120	16	30
1,1-Dichloroethane (1,1-DCA)	8260C	22.3	20.0	112	18.7	20.0	93	78-117	18	30
1,1-Dichloroethene (1,1-DCE)	8260C	20.0	20.0	100	17.5	20.0	88	74-135	13	30
Tetrachloroethene (PCE)	8260C	20.6	20.0	103	16.3	20.0	82	78-124	23	30
Trichloroethene (TCE)	8260C	22.2	20.0	111	18.6	20.0	93	78-123	18	30
Vinyl Chloride	8260C	27.3	20.0	136 *	21.9	20.0	110	69-133	22	30
cis-1,2-Dichloroethene	8260C	21.5	20.0	107	18.5	20.0	93	80-121	15	30
trans-1,2-Dichloroethene	8260C	21.6	20.0	108	18.0	20.0	90	80-120	18	30

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/15/17 20:37

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\091517\P12113.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 561774

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	24.80	41312	Pass
75	95	30	60	47.16	78568	Pass
95	95	100	100	100.00	166592	Pass
96	95	5	9	5.91	9842	Pass
173	174	0	2	1.61	1798	Pass
174	95	50	120	67.01	111640	Pass
175	174	5	9	8.76	9784	Pass
176	174	95	101	98.86	110368	Pass
177	176	5	9	6.99	7710	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1709319-02	I:\ACQUDATA\msvoa12\Data\091517\P12114.D\	09/15/17 20:59	
Lab Control Sample	RQ1709319-03	I:\ACQUDATA\msvoa12\Data\091517\P12115.D\	09/15/17 21:21	
Duplicate Lab Control Sample	RQ1709319-04	I:\ACQUDATA\msvoa12\Data\091517\P12116.D\	09/15/17 21:43	
Method Blank	RQ1709319-05	I:\ACQUDATA\msvoa12\Data\091517\P12118.D\	09/15/17 22:27	
Trip Blank	R1708647-001	I:\ACQUDATA\msvoa12\Data\091517\P12119.D\	09/15/17 22:49	
EB-091117	R1708647-006	I:\ACQUDATA\msvoa12\Data\091517\P12120.D\	09/15/17 23:10	
EB-091217	R1708647-017	I:\ACQUDATA\msvoa12\Data\091517\P12121.D\	09/15/17 23:32	
EB-091317	R1708647-018	I:\ACQUDATA\msvoa12\Data\091517\P12122.D\	09/15/17 23:54	
MP-13	R1708647-002	I:\ACQUDATA\msvoa12\Data\091517\P12123.D\	09/16/17 00:16	
MW-31	R1708647-003	I:\ACQUDATA\msvoa12\Data\091517\P12124.D\	09/16/17 00:38	
MW-13	R1708647-004	I:\ACQUDATA\msvoa12\Data\091517\P12125.D\	09/16/17 01:00	
MW-32	R1708647-005	I:\ACQUDATA\msvoa12\Data\091517\P12126.D\	09/16/17 01:22	
MW-37	R1708647-007	I:\ACQUDATA\msvoa12\Data\091517\P12127.D\	09/16/17 01:44	
MW-30	R1708647-008	I:\ACQUDATA\msvoa12\Data\091517\P12128.D\	09/16/17 02:06	
MP-8S	R1708647-009	I:\ACQUDATA\msvoa12\Data\091517\P12129.D\	09/16/17 02:28	
MW-26	R1708647-010	I:\ACQUDATA\msvoa12\Data\091517\P12130.D\	09/16/17 02:50	
MW-19	R1708647-011	I:\ACQUDATA\msvoa12\Data\091517\P12131.D\	09/16/17 03:12	
MP-8D	R1708647-012	I:\ACQUDATA\msvoa12\Data\091517\P12132.D\	09/16/17 03:34	
MW-27	R1708647-013	I:\ACQUDATA\msvoa12\Data\091517\P12133.D\	09/16/17 03:55	
MP-6D	R1708647-014	I:\ACQUDATA\msvoa12\Data\091517\P12134.D\	09/16/17 04:17	
MW-38	R1708647-015	I:\ACQUDATA\msvoa12\Data\091517\P12135.D\	09/16/17 04:39	

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/18/17 10:09

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\091817\P12139.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 561975

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.00	37811	Pass
75	95	30	60	46.63	67811	Pass
95	95	100	100	100.00	145427	Pass
96	95	5	9	6.39	9293	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	74.40	108200	Pass
175	174	5	9	7.64	8268	Pass
176	174	95	101	95.65	103488	Pass
177	176	5	9	6.81	7048	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1709391-02	I:\ACQUDATA\msvoa12\Data\091817\P12140.D\	09/18/17 10:37	
Lab Control Sample	RQ1709391-03	I:\ACQUDATA\msvoa12\Data\091817\P12141.D\	09/18/17 11:06	
Method Blank	RQ1709391-04	I:\ACQUDATA\msvoa12\Data\091817\P12143.D\	09/18/17 12:05	
MW-35	R1708647-016	I:\ACQUDATA\msvoa12\Data\091817\P12144.D\	09/18/17 12:33	

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/15/17 20:59

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

File ID: I:\ACQUDATA\msvoa12\Data\091517\P12114.D\ **Lab Code:**RQ1709319-02
Instrument ID: R-MS-12 **Analysis Lot:**561774
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	196,368	11.84	430,093	6.47	388,030	9.78
	Upper Limit ==>	392,736	12.34	860,186	6.97	776,060	10.28
	Lower Limit ==>	98,184	11.34	215,047	5.97	194,015	9.28
Associated Analyses							
Lab Control Sample	RQ1709319-03	187498	11.84	424340	6.47	382390	9.79
Duplicate Lab Control Sample	RQ1709319-04	195980	11.84	431719	6.47	393369	9.79
Method Blank	RQ1709319-05	188477	11.84	428622	6.47	374834	9.78
Trip Blank	R1708647-001	185954	11.84	427223	6.47	381440	9.78
EB-091117	R1708647-006	182433	11.84	421149	6.47	371379	9.79
EB-091217	R1708647-017	181569	11.84	428696	6.48	382652	9.79
EB-091317	R1708647-018	185580	11.84	425203	6.47	384681	9.79
MP-13	R1708647-002	180297	11.84	408971	6.47	371531	9.79
MW-31	R1708647-003	189034	11.84	423152	6.47	379797	9.78
MW-13	R1708647-004	185986	11.84	423423	6.47	372290	9.79
MW-32	R1708647-005	188806	11.84	434313	6.47	386765	9.79
MW-37	R1708647-007	177246	11.84	419290	6.47	372840	9.79
MW-30	R1708647-008	176813	11.84	416307	6.47	363654	9.79
MP-8S	R1708647-009	191405	11.84	427717	6.47	386382	9.79
MW-26	R1708647-010	188952	11.84	432260	6.47	390983	9.79
MW-19	R1708647-011	174842	11.84	414225	6.47	367117	9.79
MP-8D	R1708647-012	177134	11.84	415141	6.47	370441	9.78
MW-27	R1708647-013	194736	11.84	434907	6.47	399645	9.78
MP-6D	R1708647-014	185608	11.84	413463	6.47	371277	9.79
MW-38	R1708647-015	170346	11.84	410057	6.48	362572	9.79

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/15/17 20:59

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

File ID: I:\ACQUDATA\msvoa12\Data\091517\P12114.D\ **Lab Code:**RQ1709319-02
Instrument ID: R-MS-12 **Analysis Lot:**561774
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	261,558	5.38
	Upper Limit ==>	523,116	5.88
	Lower Limit ==>	130,779	4.88
Associated Analyses			
Lab Control Sample	RQ1709319-03	260311	5.38
Duplicate Lab Control Sample	RQ1709319-04	260875	5.39
Method Blank	RQ1709319-05	259188	5.38
Trip Blank	R1708647-001	266825	5.38
EB-091117	R1708647-006	256653	5.38
EB-091217	R1708647-017	262936	5.39
EB-091317	R1708647-018	260840	5.38
MP-13	R1708647-002	253284	5.38
MW-31	R1708647-003	265329	5.38
MW-13	R1708647-004	261456	5.38
MW-32	R1708647-005	265338	5.38
MW-37	R1708647-007	252049	5.39
MW-30	R1708647-008	253072	5.39
MP-8S	R1708647-009	260878	5.38
MW-26	R1708647-010	266389	5.38
MW-19	R1708647-011	245669	5.39
MP-8D	R1708647-012	254369	5.38
MW-27	R1708647-013	274794	5.39
MP-6D	R1708647-014	251125	5.38
MW-38	R1708647-015	248957	5.38

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/18/17 10:37

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

File ID: I:\ACQUDATA\msvoa12\Data\091817\P12140.D\ **Lab Code:**RQ1709391-02
Instrument ID: R-MS-12 **Analysis Lot:**561975
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	216,278	11.84	478,994	6.47	430,664	9.79
	Upper Limit ==>	432,556	12.34	957,988	6.97	861,328	10.29
	Lower Limit ==>	108,139	11.34	239,497	5.97	215,332	9.29
Associated Analyses							
Lab Control Sample	RQ1709391-03	218987	11.84	483820	6.47	431115	9.78
Method Blank	RQ1709391-04	190238	11.84	439756	6.47	392565	9.79
MW-35	R1708647-016	206828	11.84	488258	6.47	432660	9.79

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/18/17 10:37

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

File ID: I:\ACQUDATA\msvoa12\Data\091817\P12140.D\ **Lab Code:**RQ1709391-02
Instrument ID: R-MS-12 **Analysis Lot:**561975
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	292,848	5.38
	Upper Limit ==>	585,696	5.88
	Lower Limit ==>	146,424	4.88
Associated Analyses			
Lab Control Sample	RQ1709391-03	296317	5.38
Method Blank	RQ1709391-04	270041	5.38
MW-35	R1708647-016	297041	5.38

Raw Data

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

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Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1708647-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 22:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 22:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 22:49	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 22:49	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 22:49	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 22:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 22:49	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 22:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/15/17 22:49	
Dibromofluoromethane	96	89 - 119	09/15/17 22:49	
Toluene-d8	98	87 - 121	09/15/17 22:49	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 13:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-13	**Units:**	ug/L
Lab Code:	R1708647-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 00:16	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 00:16	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 00:16	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/16/17 00:16	
Trichloroethene (TCE)	**0.26 J**	1.0	0.22	1	09/16/17 00:16	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/16/17 00:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/16/17 00:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/16/17 00:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/16/17 00:16	
Dibromofluoromethane	97	89 - 119	09/16/17 00:16	
Toluene-d8	101	87 - 121	09/16/17 00:16	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 13:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-31	**Units:**	ug/L
Lab Code:	R1708647-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 00:38	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 00:38	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 00:38	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/16/17 00:38	
Trichloroethene (TCE)	**0.61**	**J**	1.0	0.22	1	09/16/17 00:38	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 00:38	
cis-1,2-Dichloroethene	**0.44**	**J**	1.0	0.30	1	09/16/17 00:38	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 00:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 00:38	
Dibromofluoromethane	95	89 - 119	09/16/17 00:38	
Toluene-d8	99	87 - 121	09/16/17 00:38	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 14:55
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R1708647-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 01:00	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 01:00	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 01:00	
Tetrachloroethene (PCE)	**19**		1.0	0.30	1	09/16/17 01:00	
Trichloroethene (TCE)	**0.60**	**J**	1.0	0.22	1	09/16/17 01:00	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 01:00	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/16/17 01:00	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 01:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 01:00	
Dibromofluoromethane	98	89 - 119	09/16/17 01:00	
Toluene-d8	99	87 - 121	09/16/17 01:00	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 15:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-32	**Units:**	ug/L
Lab Code:	R1708647-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 01:22	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 01:22	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 01:22	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/16/17 01:22	
Trichloroethene (TCE)	**0.30**	**J**	1.0	0.22	1	09/16/17 01:22	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 01:22	
cis-1,2-Dichloroethene	**0.84**	**J**	1.0	0.30	1	09/16/17 01:22	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 01:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 01:22	
Dibromofluoromethane	99	89 - 119	09/16/17 01:22	
Toluene-d8	98	87 - 121	09/16/17 01:22	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/11/17 15:47
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	EB-091117	**Units:**	ug/L
Lab Code:	R1708647-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 23:10	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 23:10	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 23:10	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 23:10	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 23:10	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 23:10	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 23:10	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 23:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/15/17 23:10	
Dibromofluoromethane	95	89 - 119	09/15/17 23:10	
Toluene-d8	97	87 - 121	09/15/17 23:10	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 08:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-37	**Units:**	ug/L
Lab Code:	R1708647-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 01:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 01:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 01:44	
Tetrachloroethene (PCE)	**1.1**	1.0	0.30	1	09/16/17 01:44	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/16/17 01:44	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/16/17 01:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/16/17 01:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/16/17 01:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 01:44	
Dibromofluoromethane	96	89 - 119	09/16/17 01:44	
Toluene-d8	99	87 - 121	09/16/17 01:44	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 08:25
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-30	**Units:**	ug/L
Lab Code:	R1708647-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 02:06	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 02:06	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 02:06	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/16/17 02:06	
Trichloroethene (TCE)	**0.51**	**J**	1.0	0.22	1	09/16/17 02:06	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 02:06	
cis-1,2-Dichloroethene	**0.59**	**J**	1.0	0.30	1	09/16/17 02:06	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 02:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 02:06	
Dibromofluoromethane	100	89 - 119	09/16/17 02:06	
Toluene-d8	98	87 - 121	09/16/17 02:06	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 08:55
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-8S	**Units:**	ug/L
Lab Code:	R1708647-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 02:28	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 02:28	
1,1-Dichloroethene (1,1-DCE)	**0.64**	**J**	1.0	0.57	1	09/16/17 02:28	
Tetrachloroethene (PCE)	**26**		1.0	0.30	1	09/16/17 02:28	
Trichloroethene (TCE)	**32**		1.0	0.22	1	09/16/17 02:28	
Vinyl Chloride	**0.74**	**J**	1.0	0.32	1	09/16/17 02:28	
cis-1,2-Dichloroethene	**78**		1.0	0.30	1	09/16/17 02:28	
trans-1,2-Dichloroethene	**4.9**		1.0	0.33	1	09/16/17 02:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	09/16/17 02:28	
Dibromofluoromethane	94	89 - 119	09/16/17 02:28	
Toluene-d8	96	87 - 121	09/16/17 02:28	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 09:50
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-26	**Units:**	ug/L
Lab Code:	R1708647-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 02:50	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 02:50	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 02:50	
Tetrachloroethene (PCE)	**29**		1.0	0.30	1	09/16/17 02:50	
Trichloroethene (TCE)	**3.4**		1.0	0.22	1	09/16/17 02:50	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 02:50	
cis-1,2-Dichloroethene	**4.6**		1.0	0.30	1	09/16/17 02:50	
trans-1,2-Dichloroethene	**0.33**	**J**	1.0	0.33	1	09/16/17 02:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/16/17 02:50	
Dibromofluoromethane	97	89 - 119	09/16/17 02:50	
Toluene-d8	100	87 - 121	09/16/17 02:50	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 10:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R1708647-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 03:12	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 03:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 03:12	
Tetrachloroethene (PCE)	**23**	1.0	0.30	1	09/16/17 03:12	
Trichloroethene (TCE)	**5.9**	1.0	0.22	1	09/16/17 03:12	
Vinyl Chloride	**0.60 J**	1.0	0.32	1	09/16/17 03:12	
cis-1,2-Dichloroethene	**11**	1.0	0.30	1	09/16/17 03:12	
trans-1,2-Dichloroethene	**0.49 J**	1.0	0.33	1	09/16/17 03:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/16/17 03:12	
Dibromofluoromethane	92	89 - 119	09/16/17 03:12	
Toluene-d8	97	87 - 121	09/16/17 03:12	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 10:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-8D	**Units:**	ug/L
Lab Code:	R1708647-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 03:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 03:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 03:34	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/16/17 03:34	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/16/17 03:34	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/16/17 03:34	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/16/17 03:34	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/16/17 03:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 03:34	
Dibromofluoromethane	98	89 - 119	09/16/17 03:34	
Toluene-d8	97	87 - 121	09/16/17 03:34	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 11:10
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-27	**Units:**	ug/L
Lab Code:	R1708647-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 03:55	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 03:55	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 03:55	
Tetrachloroethene (PCE)	**1.3**		1.0	0.30	1	09/16/17 03:55	
Trichloroethene (TCE)	**0.51**	**J**	1.0	0.22	1	09/16/17 03:55	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 03:55	
cis-1,2-Dichloroethene	**11**		1.0	0.30	1	09/16/17 03:55	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 03:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/16/17 03:55	
Dibromofluoromethane	95	89 - 119	09/16/17 03:55	
Toluene-d8	98	87 - 121	09/16/17 03:55	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 12:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-6D	**Units:**	ug/L
Lab Code:	R1708647-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/16/17 04:17	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/16/17 04:17	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/16/17 04:17	
Tetrachloroethene (PCE)	**0.33**	**J**	1.0	0.30	1	09/16/17 04:17	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	09/16/17 04:17	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/16/17 04:17	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/16/17 04:17	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/16/17 04:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/16/17 04:17	
Dibromofluoromethane	102	89 - 119	09/16/17 04:17	
Toluene-d8	100	87 - 121	09/16/17 04:17	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 13:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-38	**Units:**	ug/L
Lab Code:	R1708647-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/16/17 04:39	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/16/17 04:39	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/16/17 04:39	
Tetrachloroethene (PCE)	**98**	1.0	0.30	1	09/16/17 04:39	
Trichloroethene (TCE)	**6.4**	1.0	0.22	1	09/16/17 04:39	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/16/17 04:39	
cis-1,2-Dichloroethene	**1.3**	1.0	0.30	1	09/16/17 04:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/16/17 04:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/16/17 04:39	
Dibromofluoromethane	100	89 - 119	09/16/17 04:39	
Toluene-d8	100	87 - 121	09/16/17 04:39	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 13:10
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-35	**Units:**	ug/L
Lab Code:	R1708647-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/18/17 12:33	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/18/17 12:33	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/18/17 12:33	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	09/18/17 12:33	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	09/18/17 12:33	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/18/17 12:33	
cis-1,2-Dichloroethene	**0.43**	**J**	1.0	0.30	1	09/18/17 12:33	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/18/17 12:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/18/17 12:33	
Dibromofluoromethane	98	89 - 119	09/18/17 12:33	
Toluene-d8	99	87 - 121	09/18/17 12:33	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 15:45
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	EB-091217	**Units:**	ug/L
Lab Code:	R1708647-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 23:32	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 23:32	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 23:32	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 23:32	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 23:32	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 23:32	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 23:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 23:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/15/17 23:32	
Dibromofluoromethane	95	89 - 119	09/15/17 23:32	
Toluene-d8	97	87 - 121	09/15/17 23:32	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708647
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 16:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	EB-091317	**Units:**	ug/L
Lab Code:	R1708647-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 23:54	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 23:54	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 23:54	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 23:54	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 23:54	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 23:54	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 23:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 23:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/15/17 23:54	
Dibromofluoromethane	96	89 - 119	09/15/17 23:54	
Toluene-d8	98	87 - 121	09/15/17 23:54	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12119.D
Acq On : 15 Sep 2017 10:49 pm
Operator : K.Ruest
Sample : R1708647-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 18 13:56:53 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

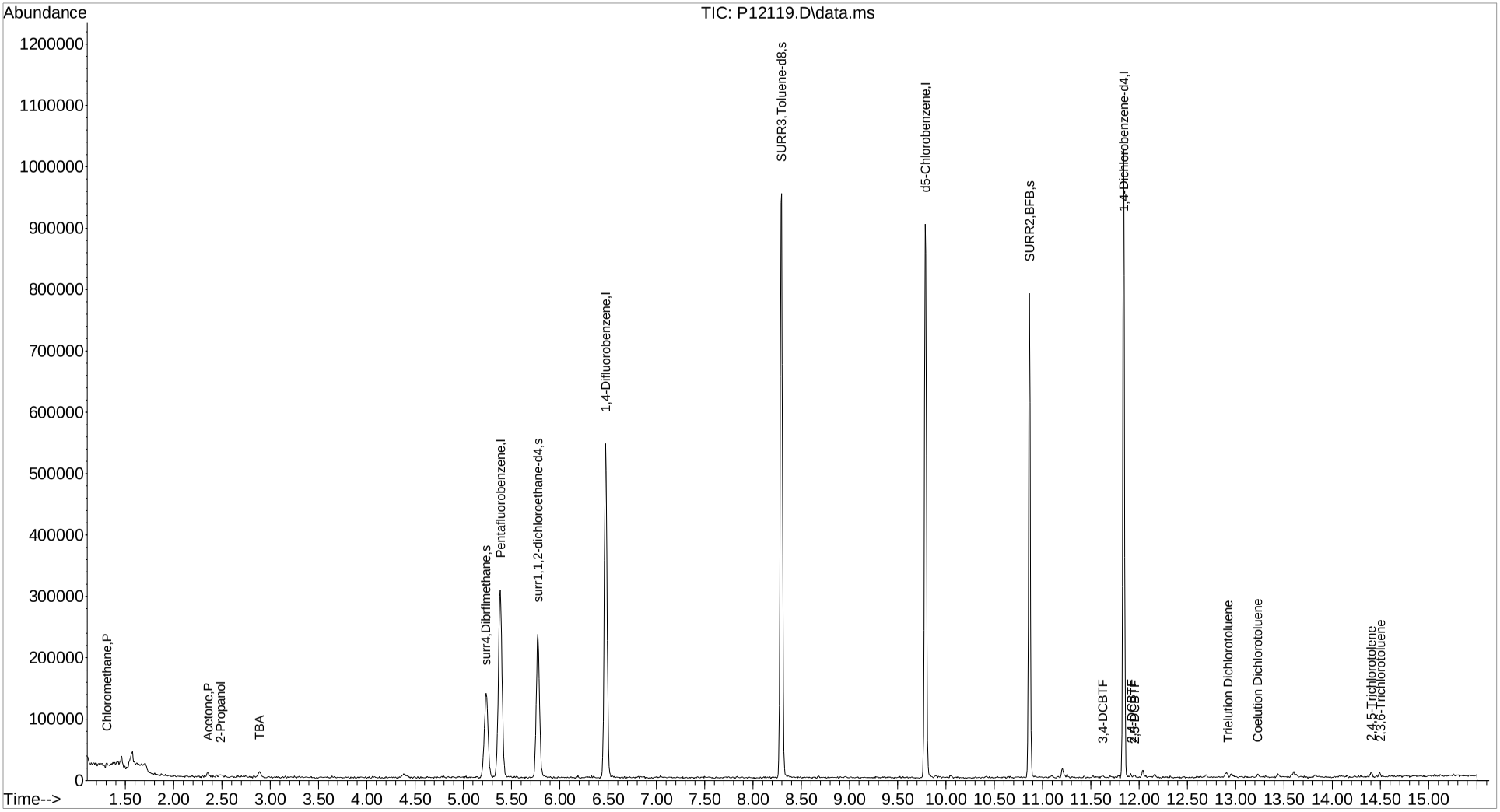
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	266825	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	427223	50.00	ppb		0.00
71) d5-Chlorobenzene	9.785	117	381440	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	185954	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.231	113	114337	47.99	ppb		-0.01
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.98%				
48) surr1,1,2-dichloroetha...	5.773	65	186234	49.04	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.08%				
65) SURR3,Toluene-d8	8.297	98	542124	49.24	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.48%				
70) SURR2,BFB	10.864	95	208855	48.25	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.50%				
Target Compounds							Qvalue
3) Chloromethane	1.305	50	1922	0.27	ppb		96
15) Acetone	2.353	43	7944	2.44	ppb		93
16) 2-Propanol	2.487	45	3050	4.52	ppb		89
23) TBA	2.890	59	4975	5.30	ppb		78
102) 3,4-DCBTF	11.620	214	800	0.28	ppb	#	68
107) 2,4-DCBTF	11.918	214	840	0.33	ppb	#	47
108) 2,5-DCBTF	11.955	214	600	0.21	ppb	#	48
112) Trielution Dichlorotol...	12.918	125	2965	0.48	ppb	#	87
114) Coelution Dichlorotoluene	13.229	125	1646	0.24	ppb	#	92
119) 2,4,5-Trichlorotolene	14.400	159	1241	0.31	ppb	#	62
120) 2,3,6-Trichlorotoluene	14.497	159	1091	0.29	ppb	#	68

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

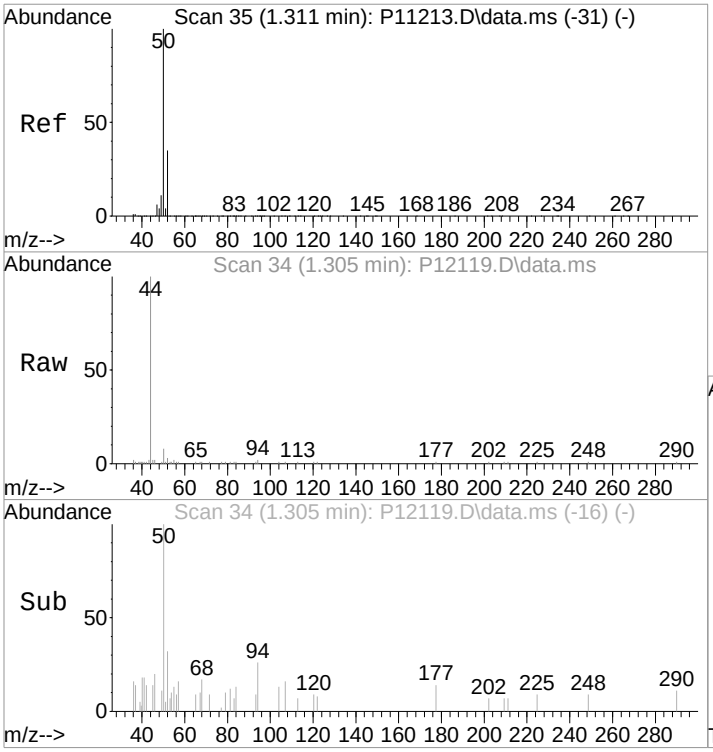
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12119.D
Acq On : 15 Sep 2017 10:49 pm
Operator : K.Ruest
Sample : R1708647-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 18 13:56:53 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



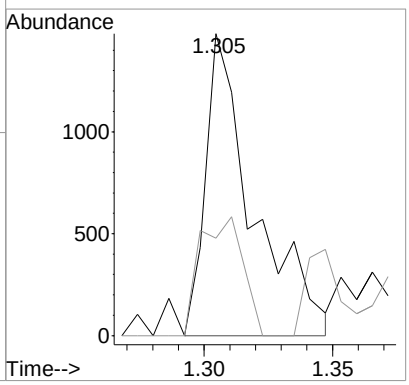
1st 09/18/17
2nd 09/20/17

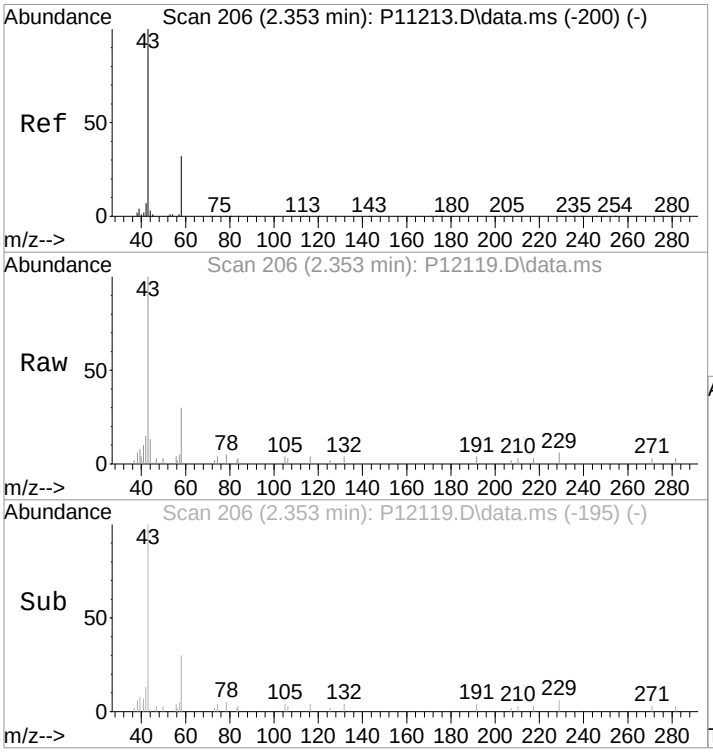


#3
Chloromethane
Concen: 0.27 ppb
RT: 1.305 min Scan# 34
Delta R.T. -0.004 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion: 50 Resp: 1922

Ion	Ratio	Lower	Upper
50	100		
52	32.3	14.5	54.5

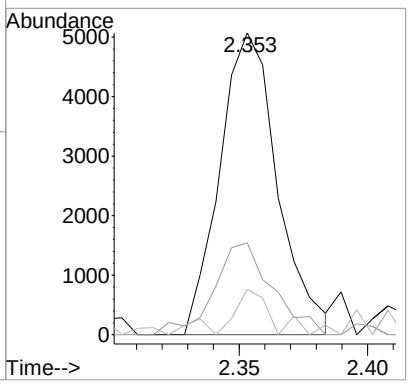


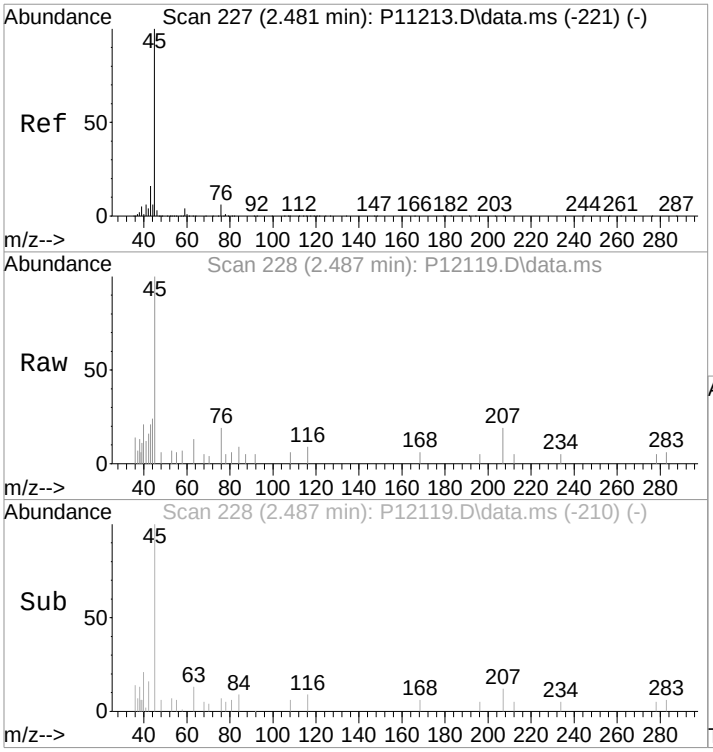


#15
Acetone
Concen: 2.44 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion: 43 Resp: 7944

Ion	Ratio	Lower	Upper
43	100		
58	30.4	12.3	52.3
42	15.0	0.0	27.4

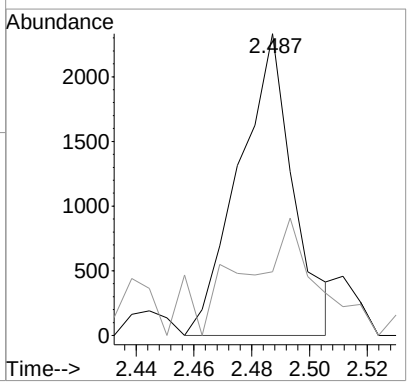


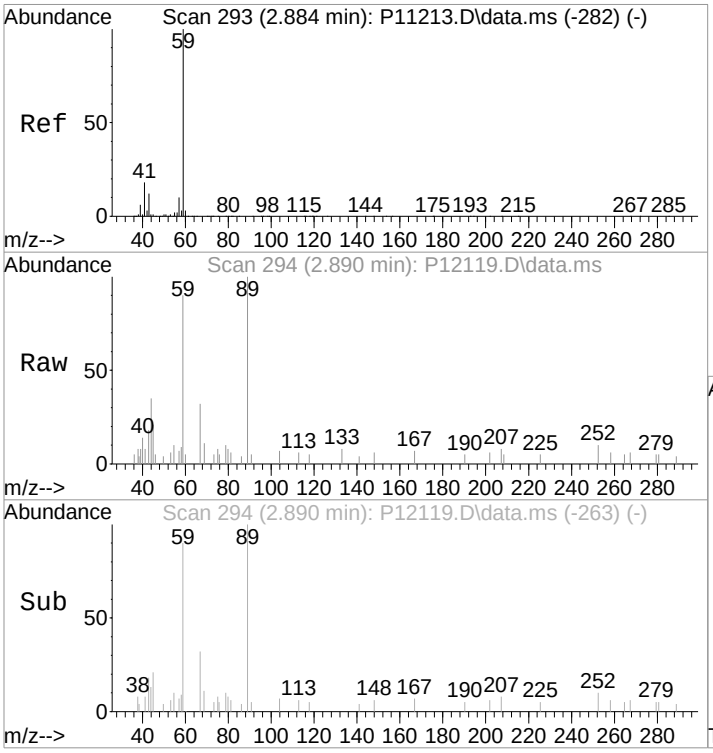


#16
2-Propanol
Concen: 4.52 ppb
RT: 2.487 min Scan# 228
Delta R.T. -0.002 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion: 45 Resp: 3050

Ion	Ratio	Lower	Upper
45	100		
43	21.1	0.0	36.5

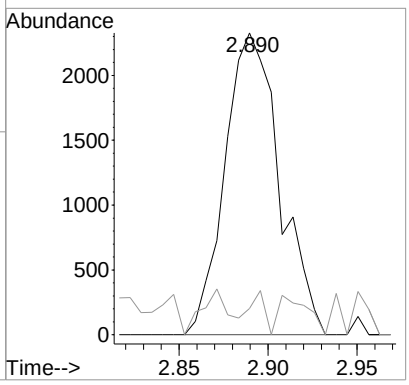


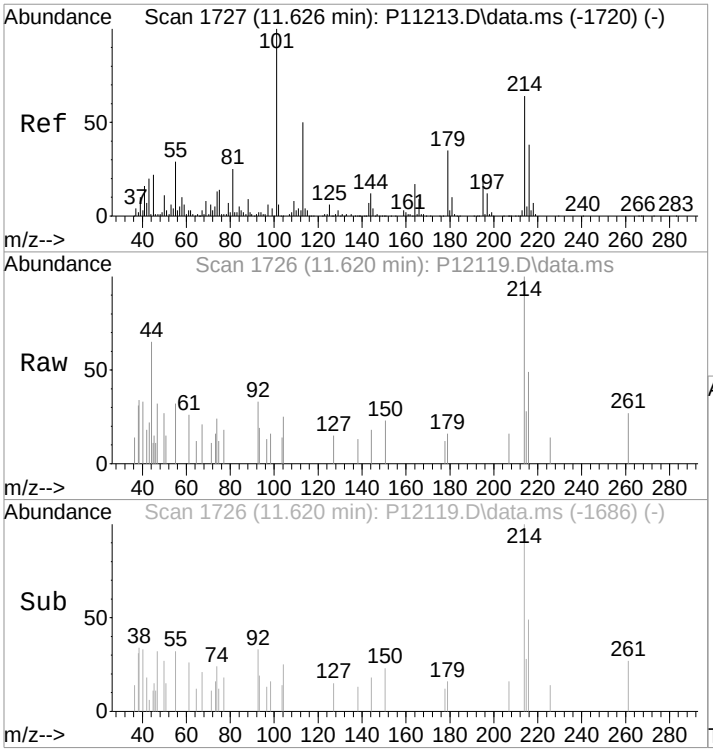


#23
TBA
Concen: 5.30 ppb
RT: 2.890 min Scan# 294
Delta R.T. 0.004 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion: 59 Resp: 4975

Ion	Ratio	Lower	Upper
59	100		
41	8.7	0.0	38.3

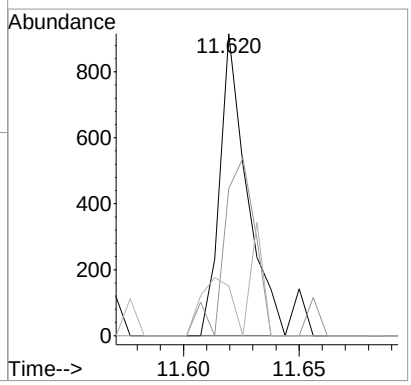


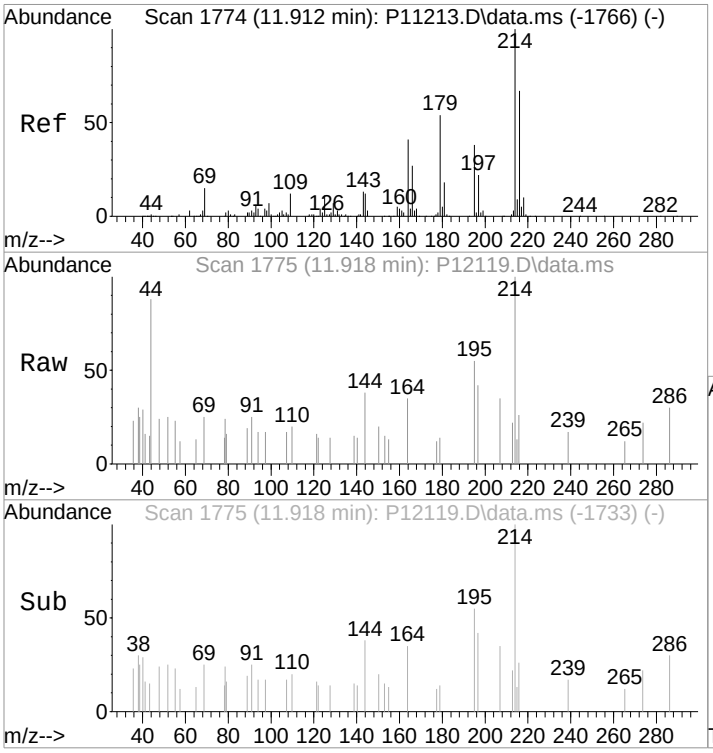


#102
3,4-DCBTF
Concen: 0.28 ppb
RT: 11.620 min Scan# 1726
Delta R.T. -0.006 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion:214 Resp: 800

Ion	Ratio	Lower	Upper
214	100		
216	48.7	47.1	70.7
179	16.5	43.0	64.4#

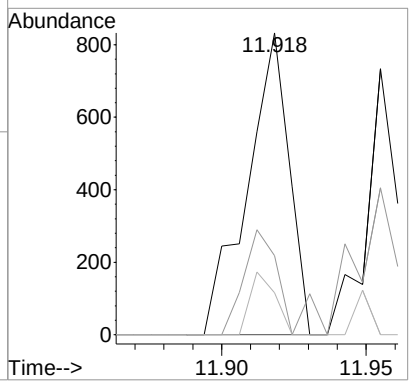


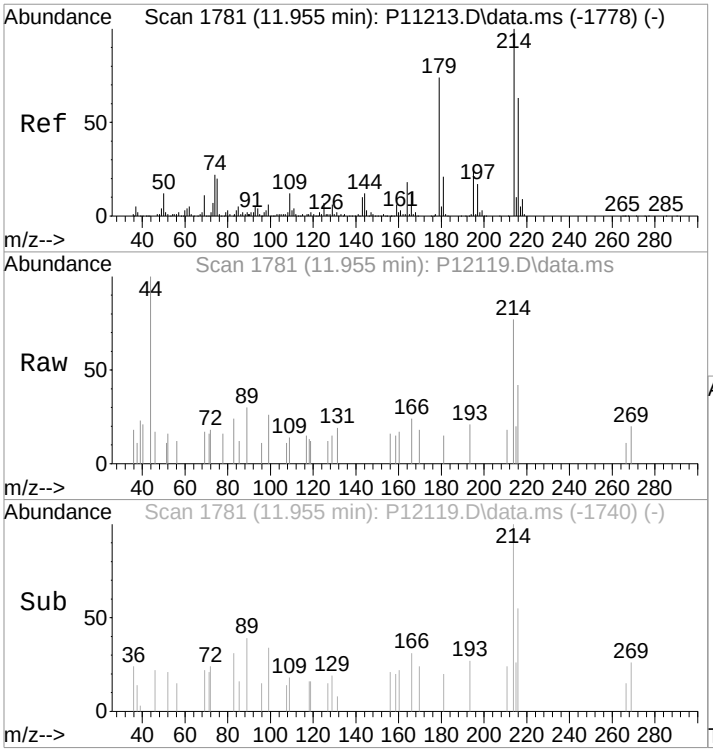


#107
2,4-DCBTF
Concen: 0.33 ppb
RT: 11.918 min Scan# 1775
Delta R.T. 0.005 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion:214 Resp: 840

Ion	Ratio	Lower	Upper
214	100		
216	26.2	53.4	80.0#
179	13.9	43.4	65.2#

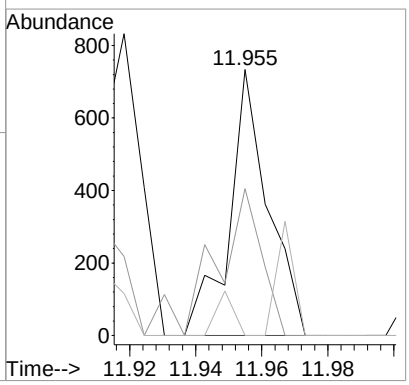


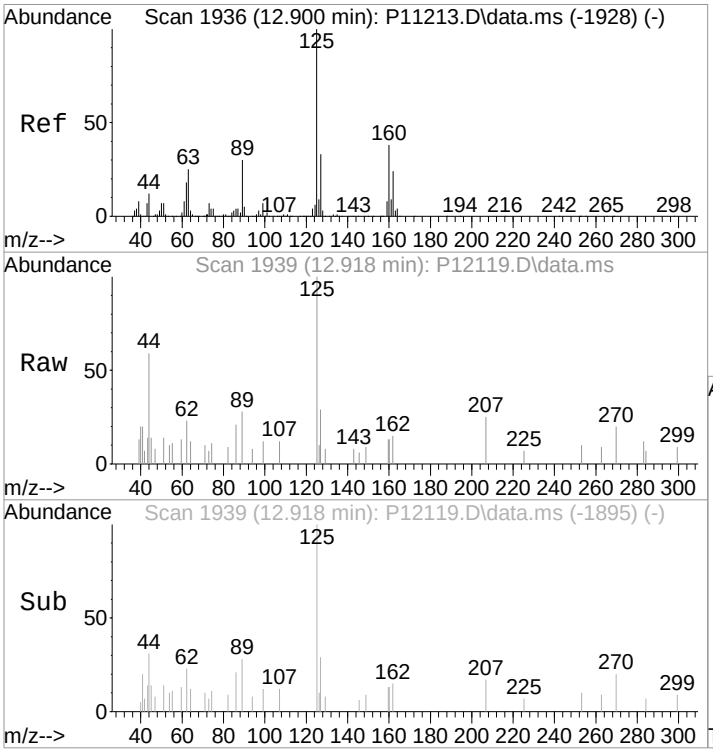


#108
2,5-DCBTF
Concen: 0.21 ppb
RT: 11.955 min Scan# 1781
Delta R.T. -0.000 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion:214 Resp: 600

Ion	Ratio	Lower	Upper
214	100		
216	55.2	50.0	75.0
179	0.0	59.2	88.8#

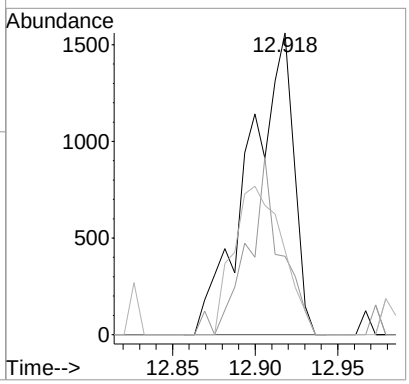


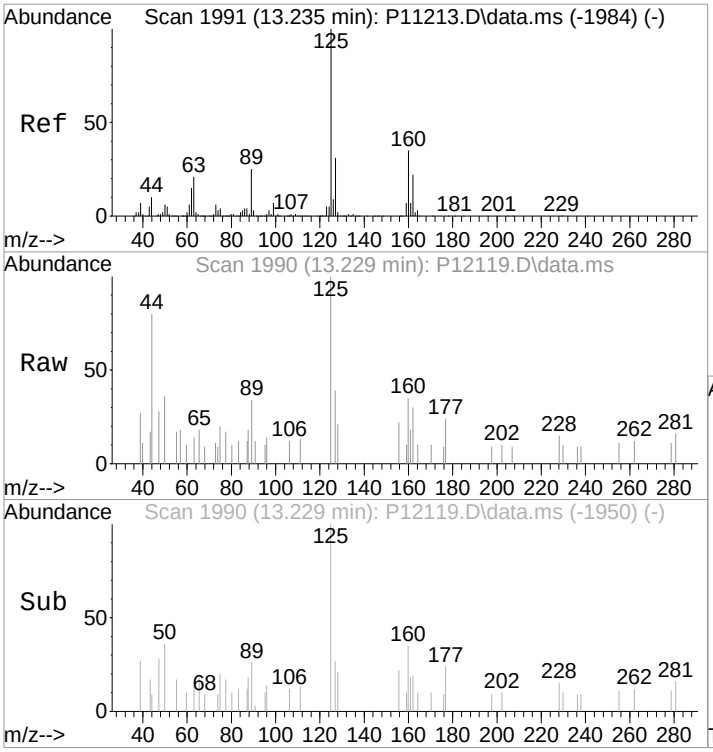


#112
Trielution Dichlorotoluene
Concen: 0.48 ppb
RT: 12.918 min Scan# 1939
Delta R.T. 0.016 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion:125 Resp: 2965

Ion	Ratio	Lower	Upper
125	100		
160	26.0	30.6	46.0#
89	27.8	24.1	36.1

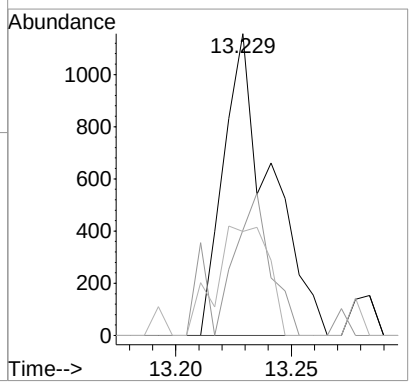


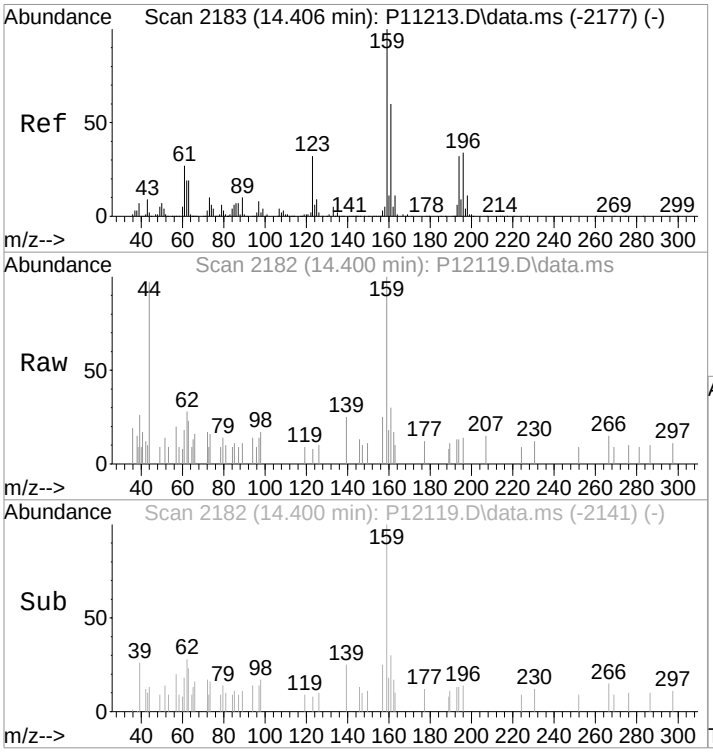


#114
Coelution Dichlorotoluene
Concen: 0.24 ppb
RT: 13.229 min Scan# 1990
Delta R.T. -0.006 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion:125 Resp: 1646

Ion	Ratio	Lower	Upper
125	100		
160	34.8	27.9	41.9
89	34.4	19.9	29.9#

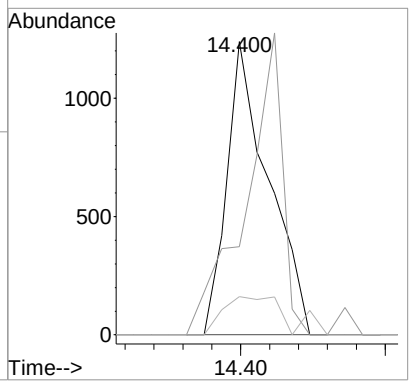


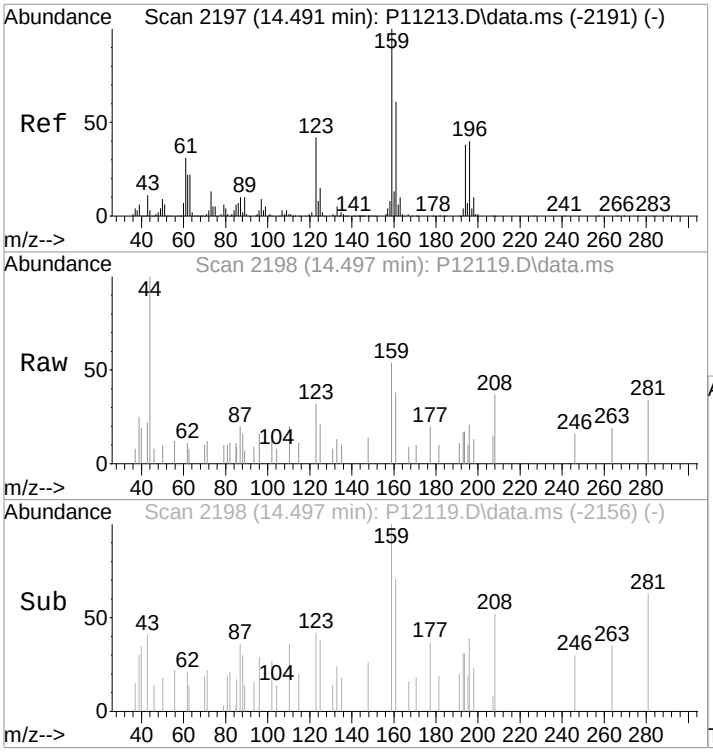


#119
2,4,5-Trichlorotolene
Concen: 0.31 ppb
RT: 14.400 min Scan# 2182
Delta R.T. -0.003 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion:159 Resp: 1241

Ion	Ratio	Lower	Upper
159	100		
161	30.1	48.3	72.5#
194	13.1	25.8	38.6#

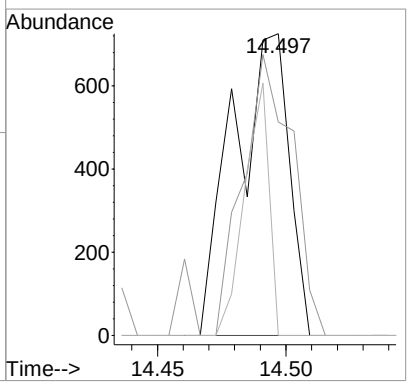




#120
2,3,6-Trichlorotoluene
Concen: 0.29 ppb
RT: 14.497 min Scan# 2198
Delta R.T. 0.006 min
Lab File: P12119.D
Acq: 15 Sep 2017 10:49 pm

Tgt Ion:159 Resp: 1091

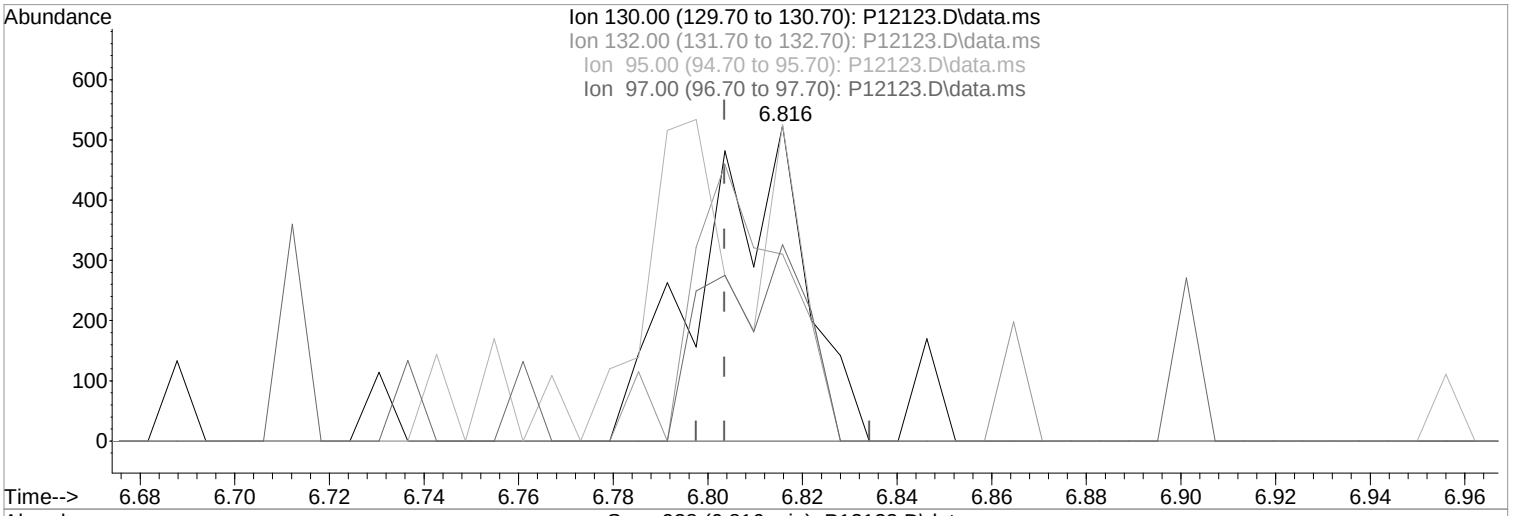
Ion	Ratio	Lower	Upper
159	100		
161	70.7	49.0	73.6
194	0.0	30.2	45.4#

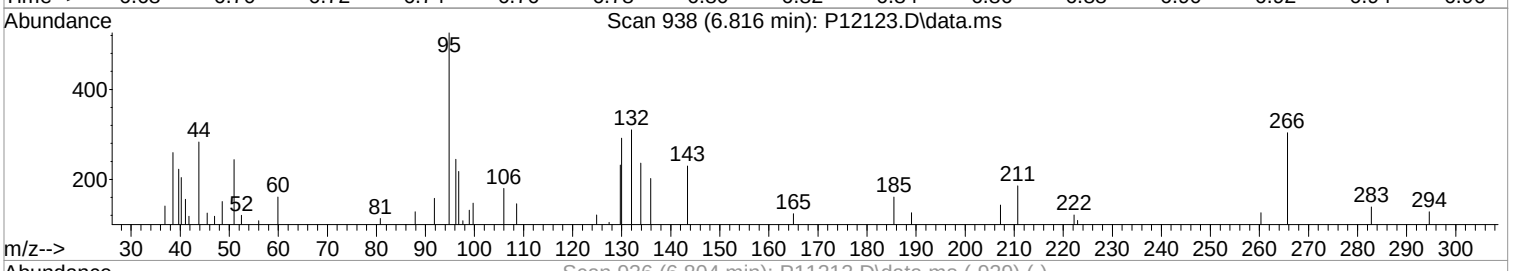


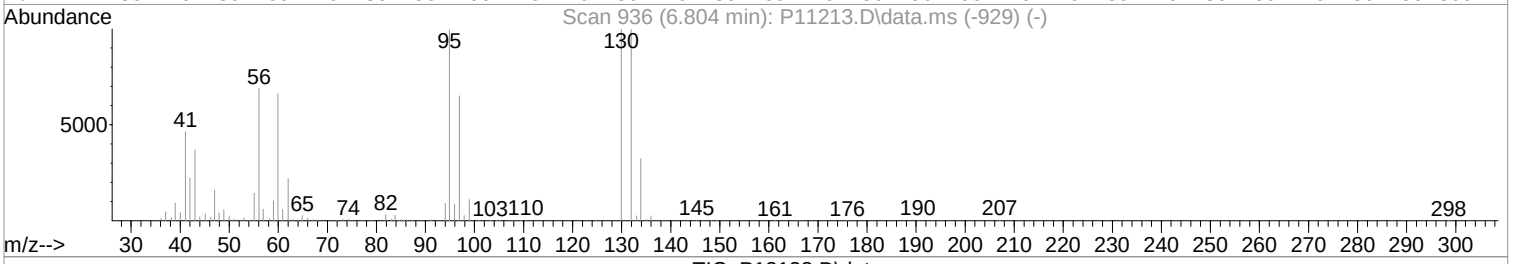
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12123.D
Acq On : 16 Sep 2017 12:16 am
Operator : K.Ruest
Sample : R1708647-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 18 09:53:51 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12123.D\data.ms

(54) Trichloroethene (P)

6.816min (+0.012) 0.26 ppb m

response 805

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	106.16
95.00	99.40	180.14#
97.00	65.10	74.66

Manual Integration:

After

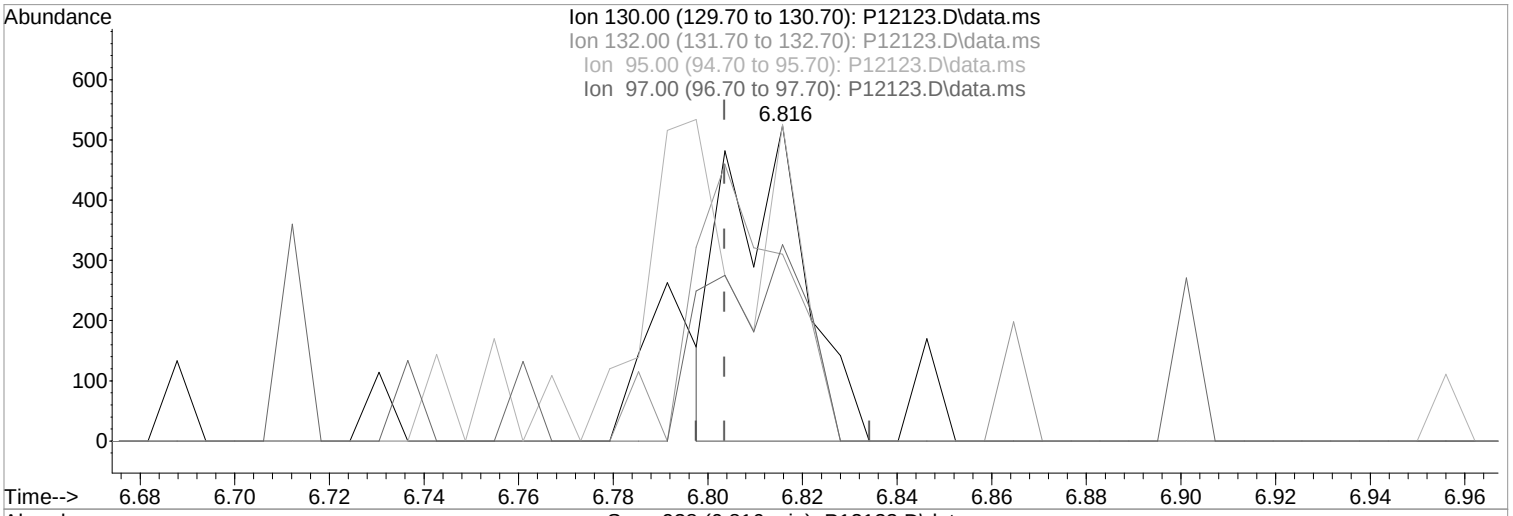
Split Peak

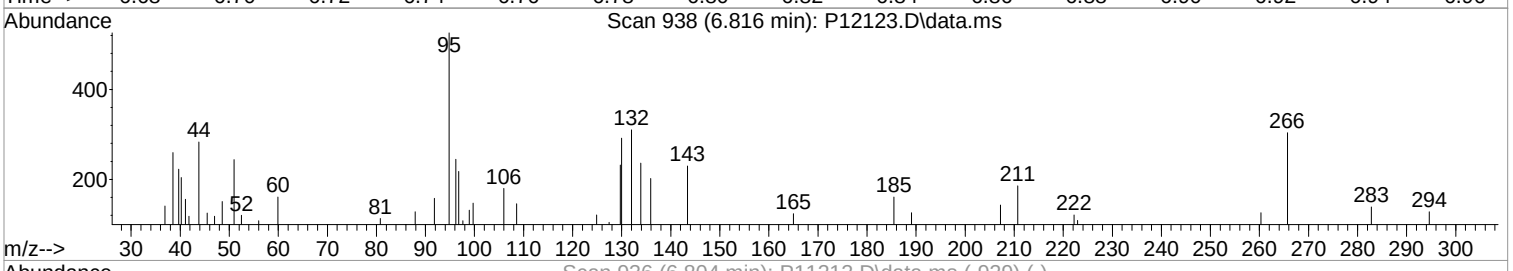
09/18/17

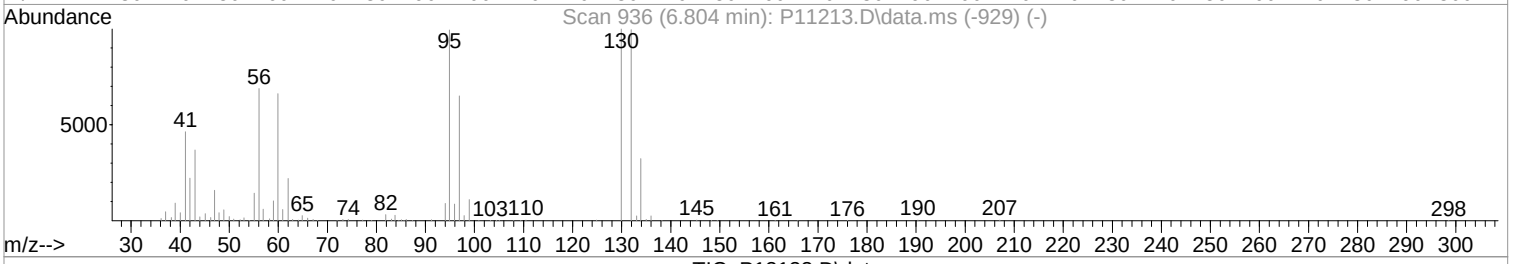
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12123.D
Acq On : 16 Sep 2017 12:16 am
Operator : K.Ruest
Sample : R1708647-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 18 09:53:51 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12123.D\data.ms

(54) Trichloroethene (P)

6.816min (+0.012) 0.19 ppb

response 599

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	59.16#
95.00	99.40	100.38
97.00	65.10	62.21

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12123.D
Acq On : 16 Sep 2017 12:16 am
Operator : K.Ruest
Sample : R1708647-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 18 14:23:30 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

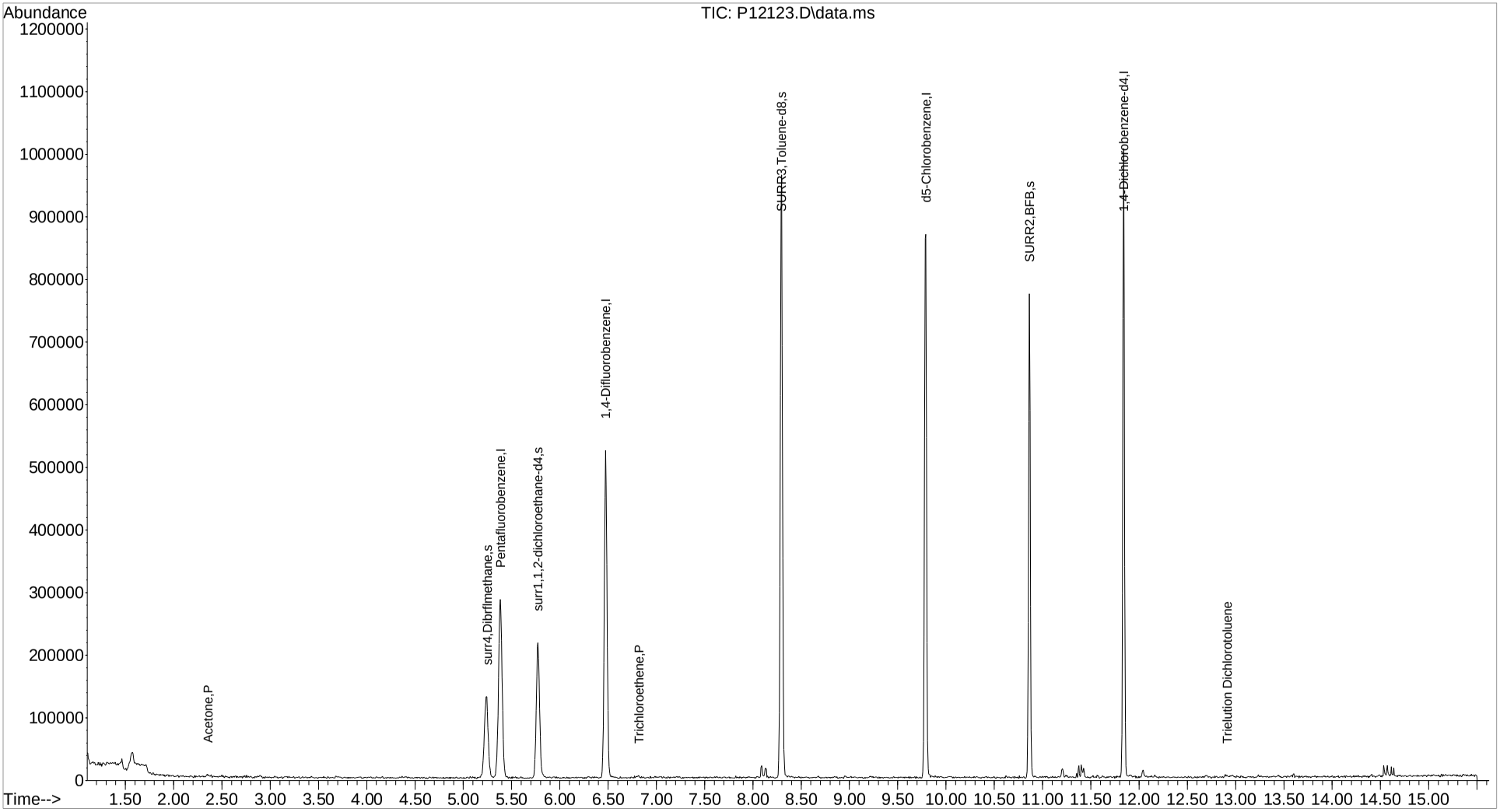
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.383	168	253284	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.474	114	408971	50.00	ppb	0.00
71) d5-Chlorobenzene	9.791	117	371531	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	180297	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.243	113	110445	48.42	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.84%			
48) surr1,1,2-dichloroetha...	5.773	65	166403	45.77	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.54%			
65) SURR3,Toluene-d8	8.297	98	533604	50.63	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.26%			
70) SURR2,BFB	10.864	95	202279	48.82	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.64%			
Target Compounds						Qvalue
15) Acetone	2.359	43	2574	0.83	ppb	80
54) Trichloroethene	6.816	130	805m	0.26	ppb	
112) Trielution Dichlorotol...	12.912	125	1431	0.24	ppb	# 82

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

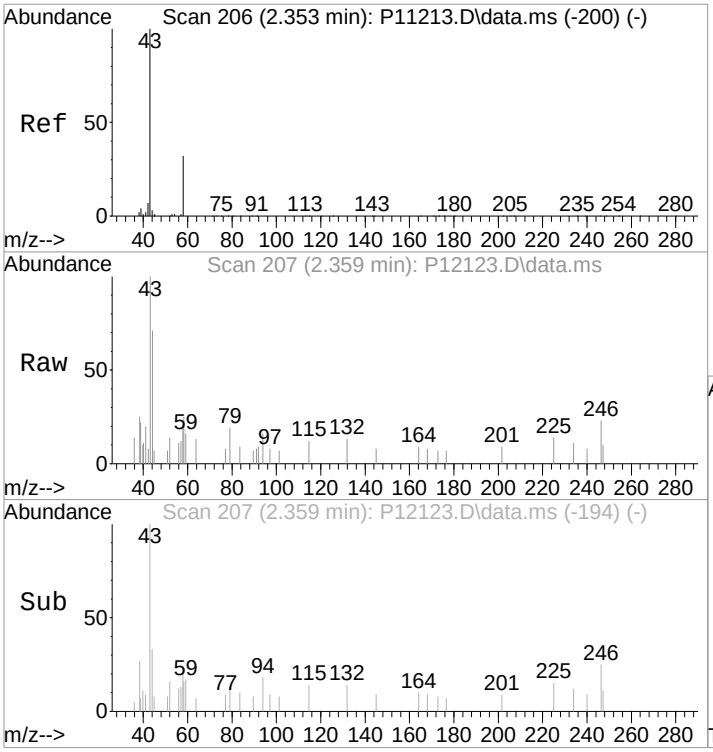
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12123.D
Acq On : 16 Sep 2017 12:16 am
Operator : K.Ruest
Sample : R1708647-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 18 14:23:30 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



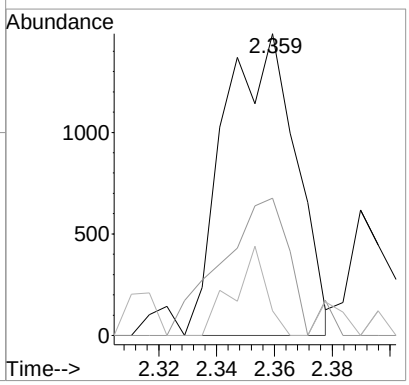
1st 09/18/17
2nd 09/20/17

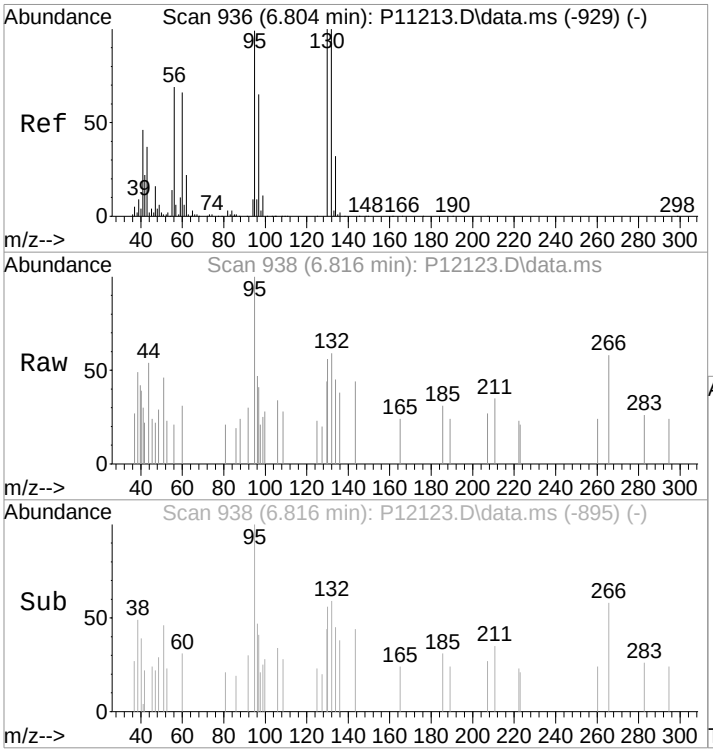


#15
Acetone
Concen: 0.83 ppb
RT: 2.359 min Scan# 207
Delta R.T. 0.002 min
Lab File: P12123.D
Acq: 16 Sep 2017 12:16 am

Tgt Ion: 43 Resp: 2574

Ion	Ratio	Lower	Upper
43	100		
58	45.5	12.3	52.3
42	8.1	0.0	27.4

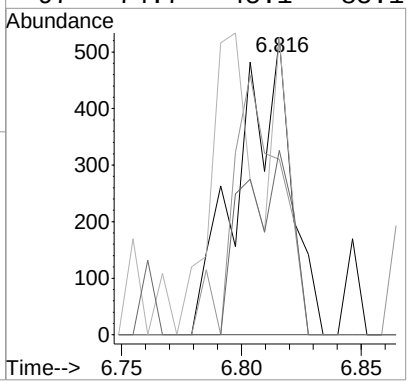


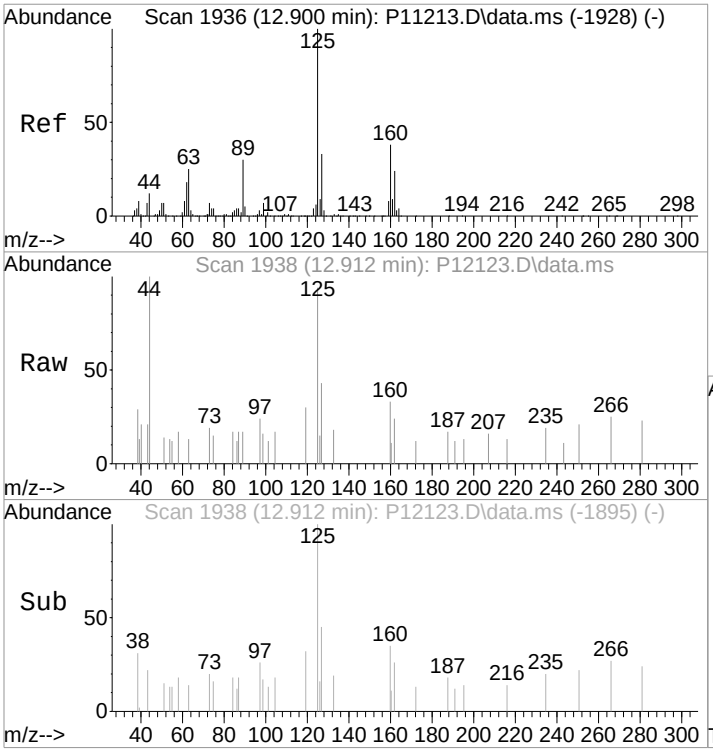


#54
Trichloroethene
Concen: 0.26 ppb m
RT: 6.816 min Scan# 938
Delta R.T. 0.012 min
Lab File: P12123.D
Acq: 16 Sep 2017 12:16 am

Tgt Ion:130 Resp: 805

Ion	Ratio	Lower	Upper
130	100		
132	106.2	80.0	120.0
95	180.1	79.4	119.4#
97	74.7	45.1	85.1

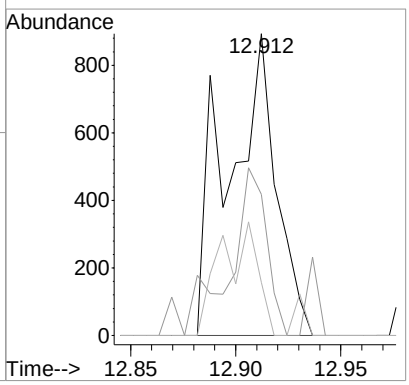




#112
Trielution Dichlorotoluene
Concen: 0.24 ppb
RT: 12.912 min Scan# 1938
Delta R.T. 0.010 min
Lab File: P12123.D
Acq: 16 Sep 2017 12:16 am

Tgt Ion:125 Resp: 1431

Ion	Ratio	Lower	Upper
125	100		
160	46.8	30.6	46.0#
89	17.6	24.1	36.1#

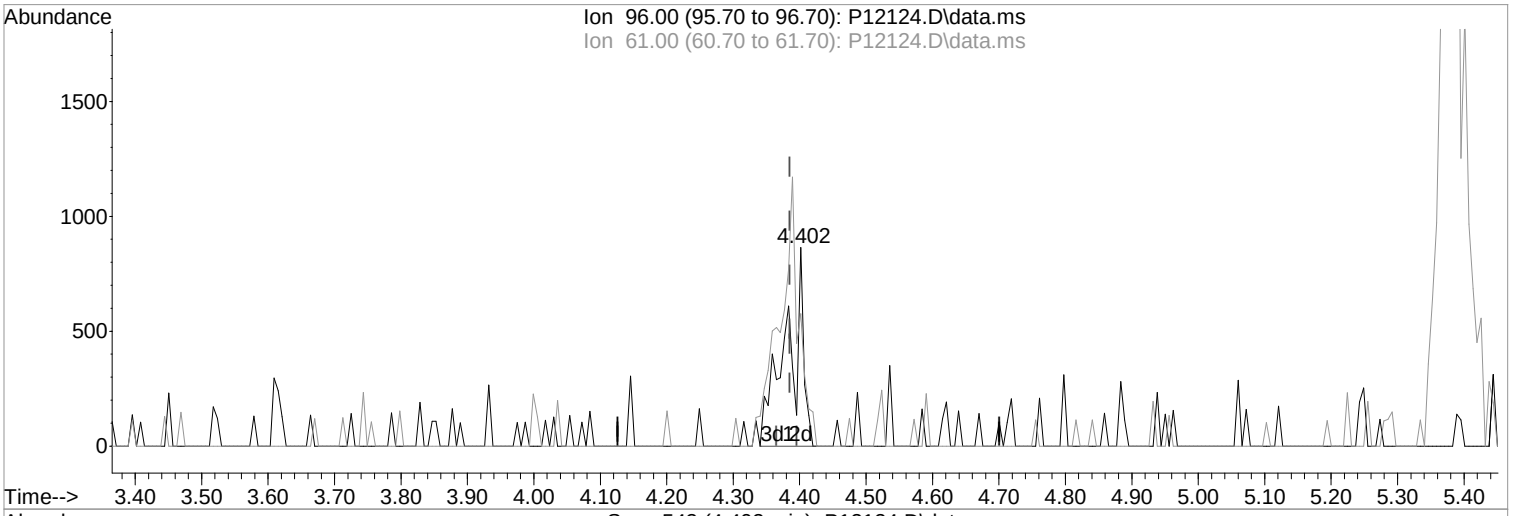


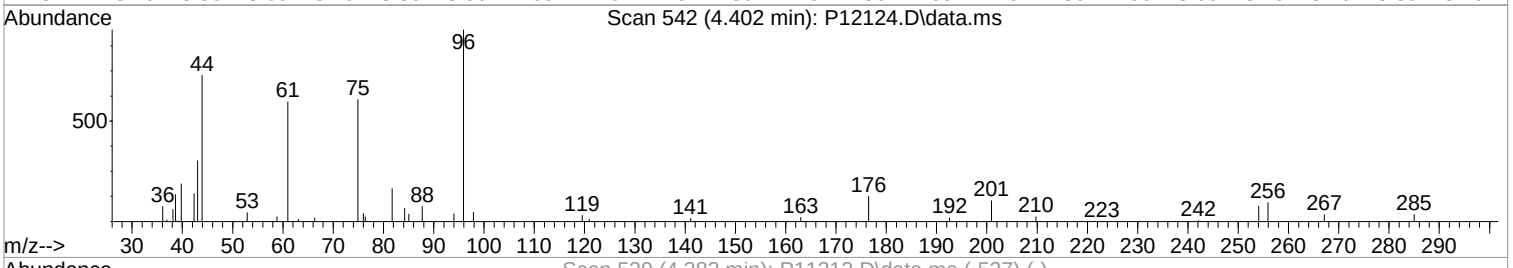
1st 09/18/17
2nd 09/20/17

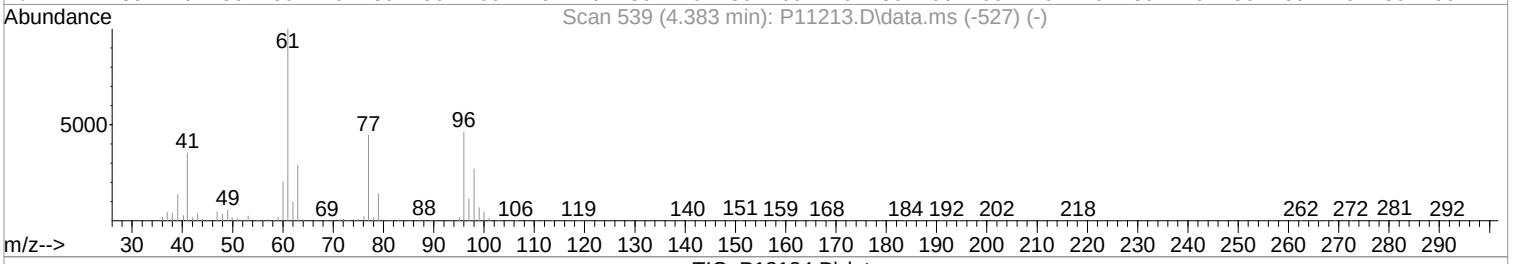
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12124.D
Acq On : 16 Sep 2017 12:38 am
Operator : K.Ruest
Sample : R1708647-003|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 18 09:54:03 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12124.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.402min (+0.017) 0.44 ppb m

response 1538

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	66.67#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

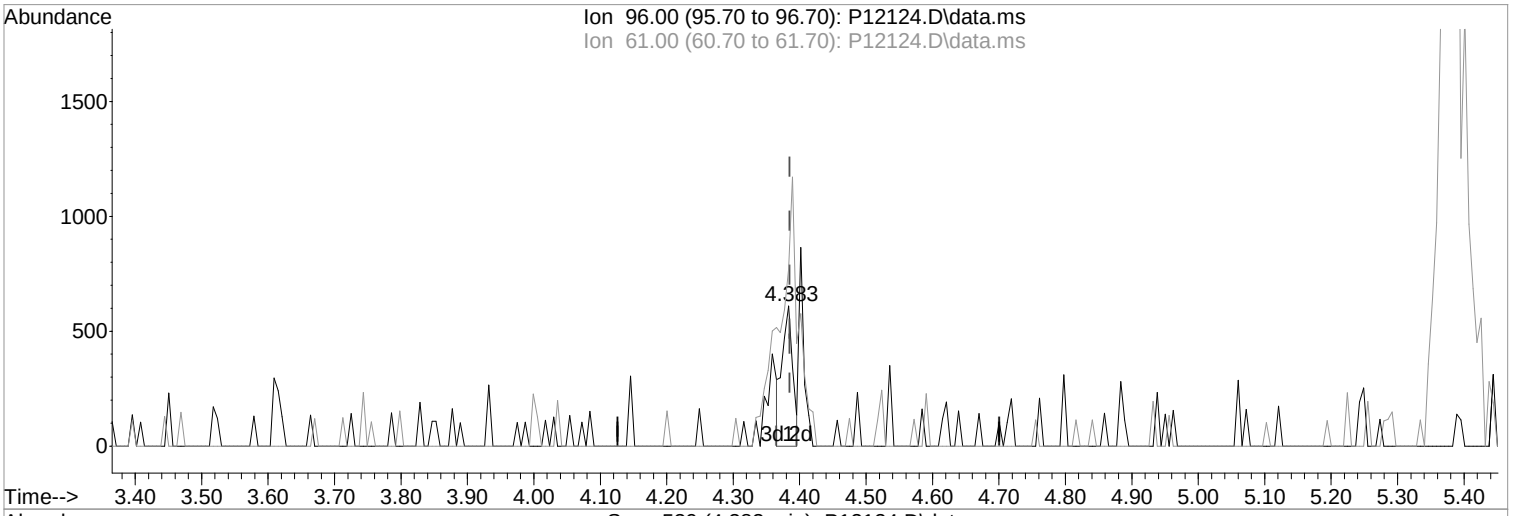
Split Peak

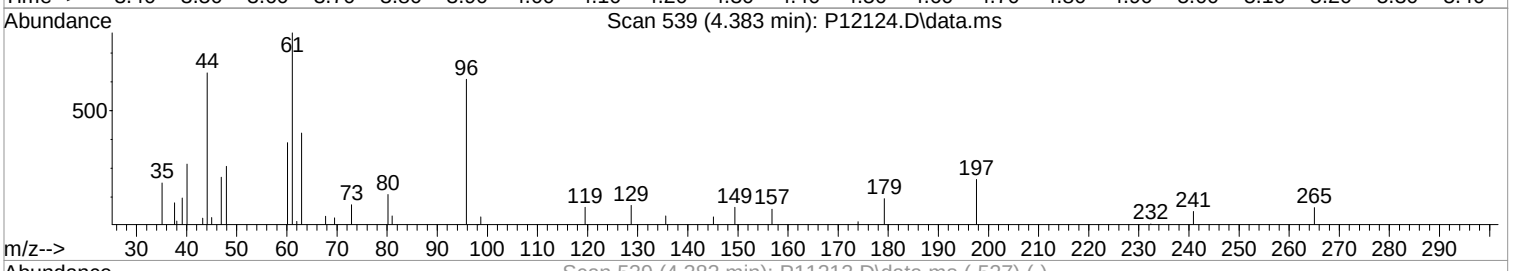
09/18/17

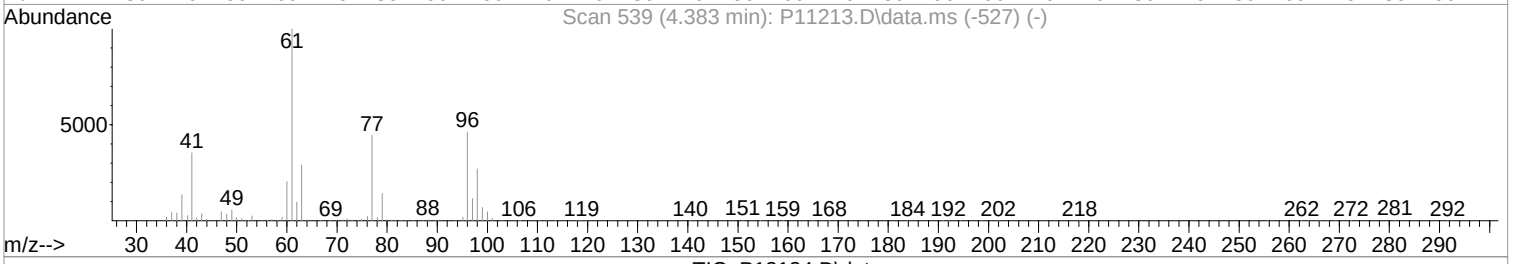
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12124.D
Acq On : 16 Sep 2017 12:38 am
Operator : K.Ruest
Sample : R1708647-003|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 18 09:54:03 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12124.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.383min (-0.002) 0.19 ppb

response 680

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	126.60#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

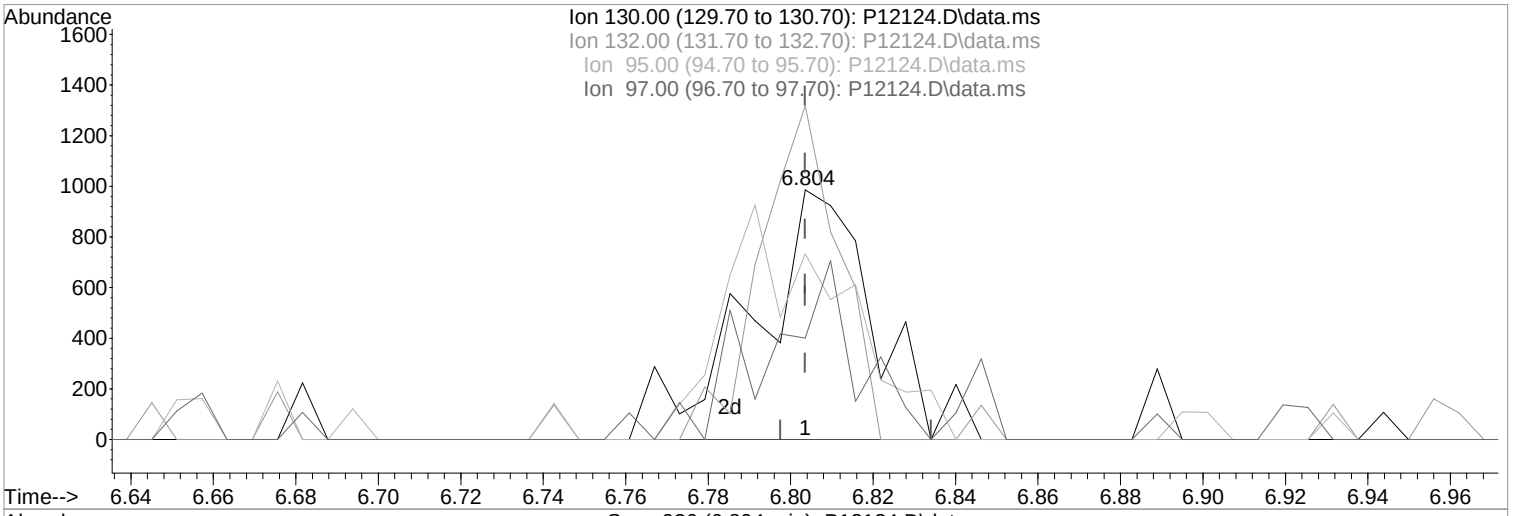
Before

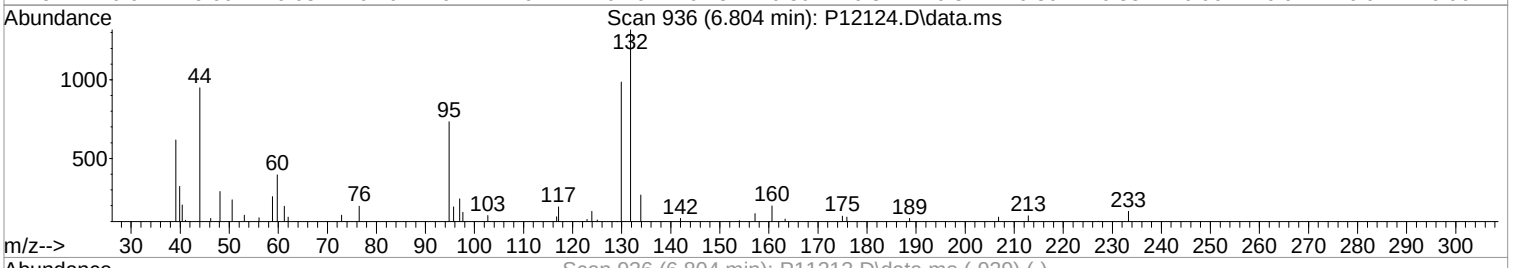
09/18/17

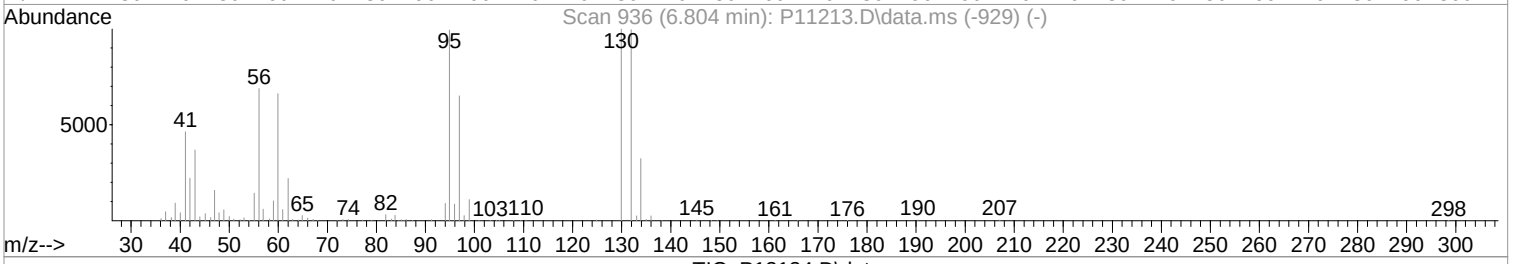
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12124.D
Acq On : 16 Sep 2017 12:38 am
Operator : K.Ruest
Sample : R1708647-003|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 18 09:54:03 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12124.D\data.ms

(54) Trichloroethene (P)

6.804min (+0.000) 0.61 ppb m

response 1966

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	133.67#
95.00	99.40	74.34#
97.00	65.10	24.75#

Manual Integration:

After

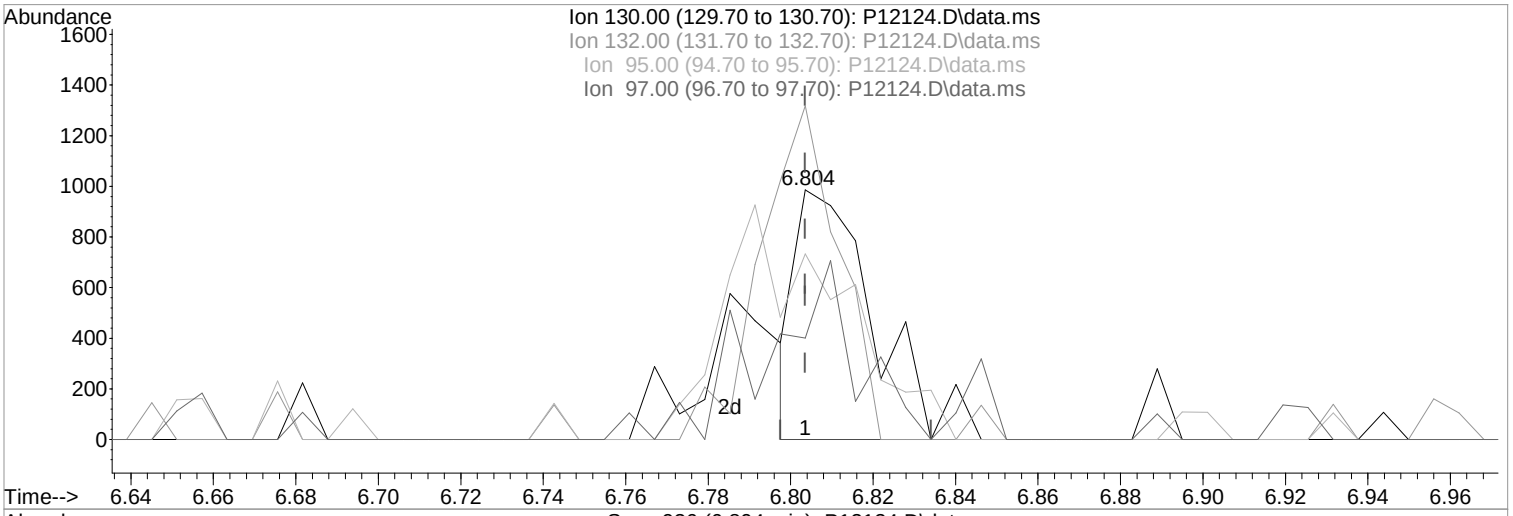
Split Peak

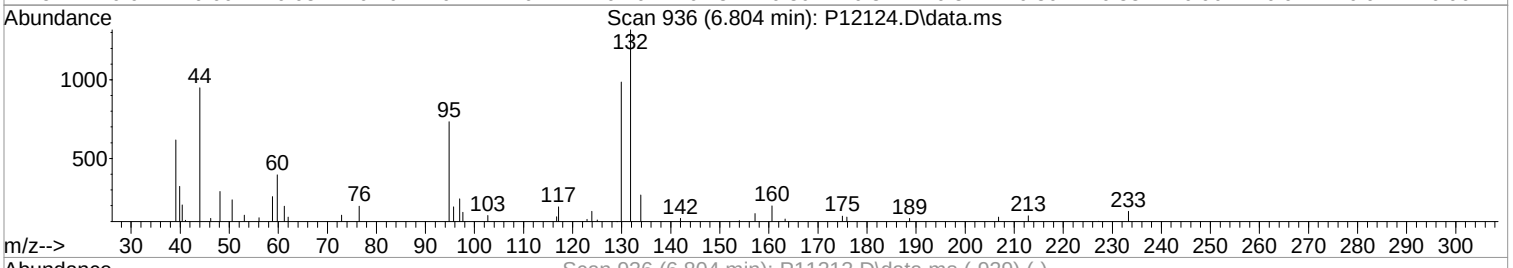
09/18/17

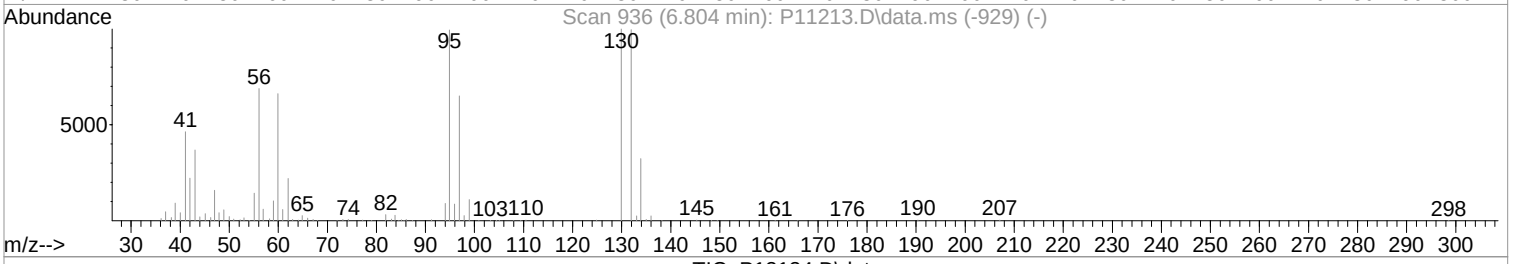
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12124.D
Acq On : 16 Sep 2017 12:38 am
Operator : K.Ruest
Sample : R1708647-003|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 18 09:54:03 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12124.D\data.ms

(54) Trichloroethene (P)

6.804min (+0.000) 0.39 ppb

response 1243

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	133.67#
95.00	99.40	93.81
97.00	65.10	40.67#

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12124.D
Acq On : 16 Sep 2017 12:38 am
Operator : K.Ruest
Sample : R1708647-003|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 18 14:25:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

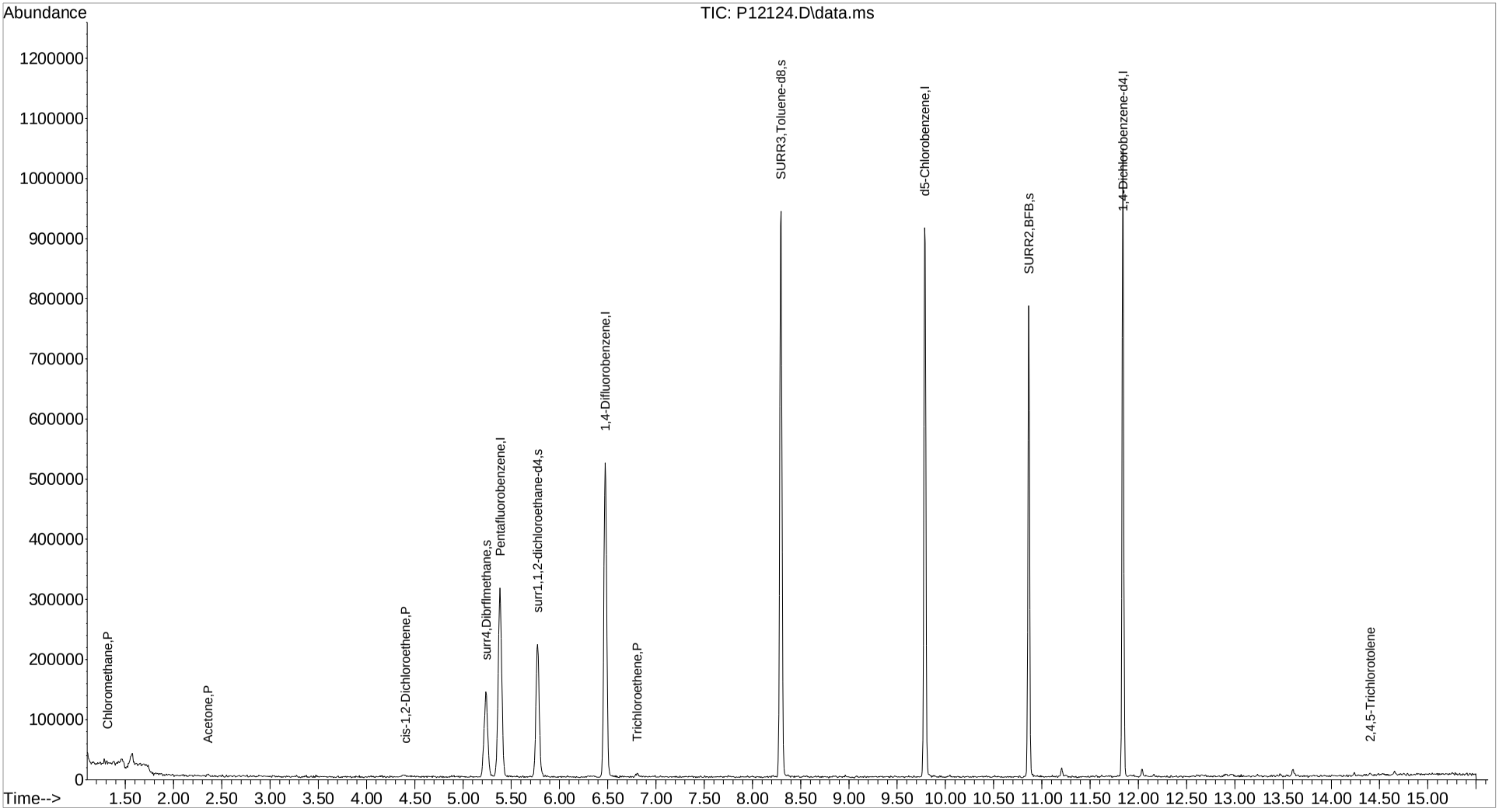
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.383	168	265329	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.474	114	423152	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	379797	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	189034	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.237	113	112531	47.69	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.38%			
48) surr1,1,2-dichloroetha...	5.773	65	179196	47.64	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 95.28%			
65) SURR3,Toluene-d8	8.297	98	540118	49.53	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.06%			
70) SURR2,BFB	10.864	95	202830	47.31	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.62%			
Target Compounds						Qvalue
3) Chloromethane	1.311	50	1906	0.27	ppb	97
15) Acetone	2.353	43	3185	0.99	ppb	96
34) cis-1,2-Dichloroethene	4.402	96	1538m	0.44	ppb	
54) Trichloroethene	6.804	130	1966m	0.61	ppb	
119) 2,4,5-Trichlorotolene	14.406	159	958	0.23	ppb	# 74

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

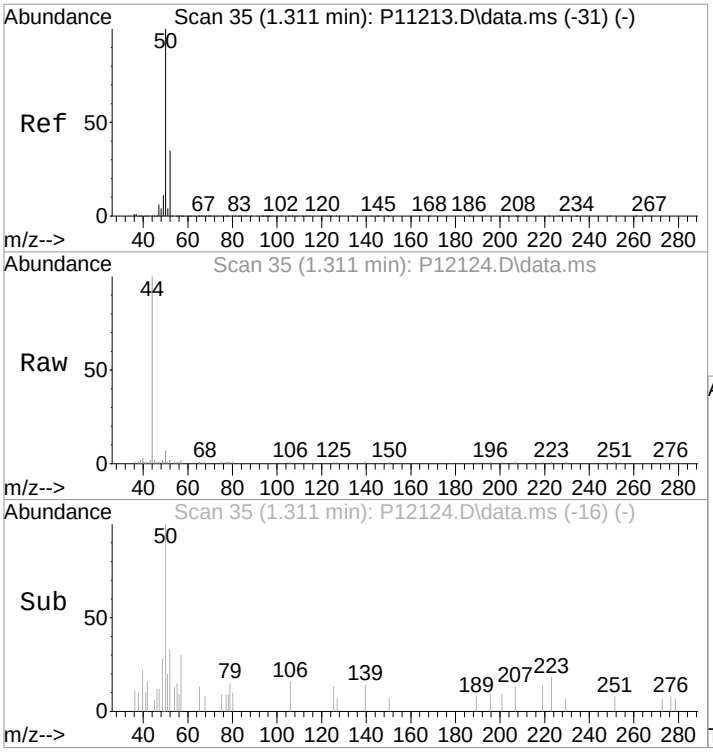
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12124.D
Acq On : 16 Sep 2017 12:38 am
Operator : K.Ruest
Sample : R1708647-003|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 18 14:25:59 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



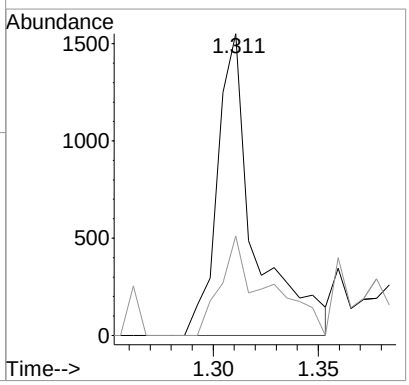
1st KR 09/18/17
2nd BA 09/20/17

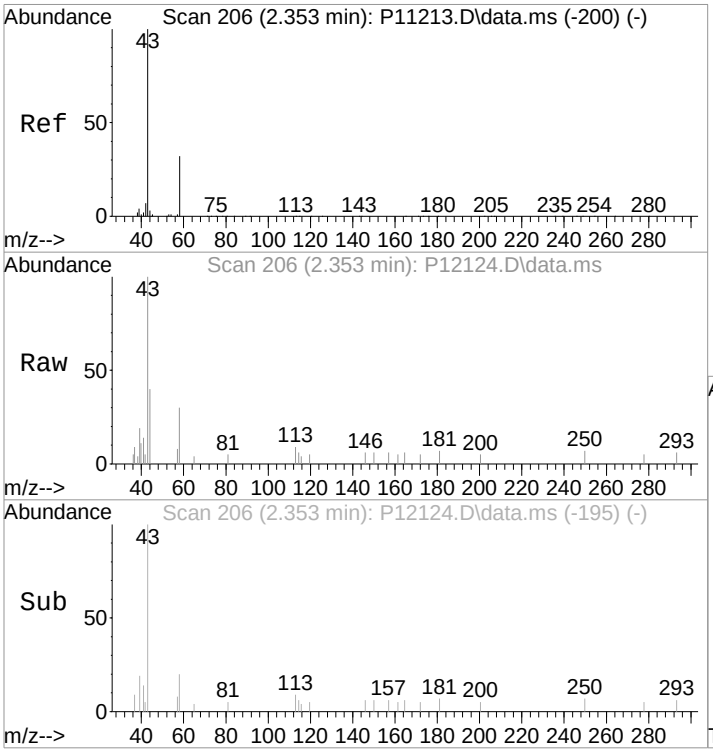


#3
Chloromethane
Concen: 0.27 ppb
RT: 1.311 min Scan# 35
Delta R.T. 0.002 min
Lab File: P12124.D
Acq: 16 Sep 2017 12:38 am

Tgt Ion: 50 Resp: 1906

Ion	Ratio	Lower	Upper
50	100		
52	33.0	14.5	54.5

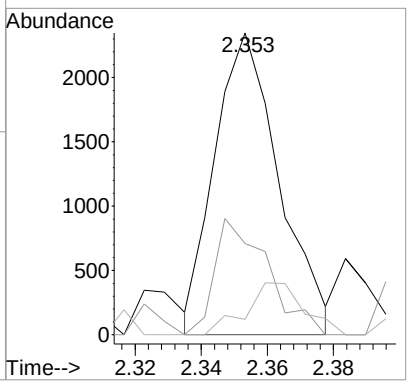


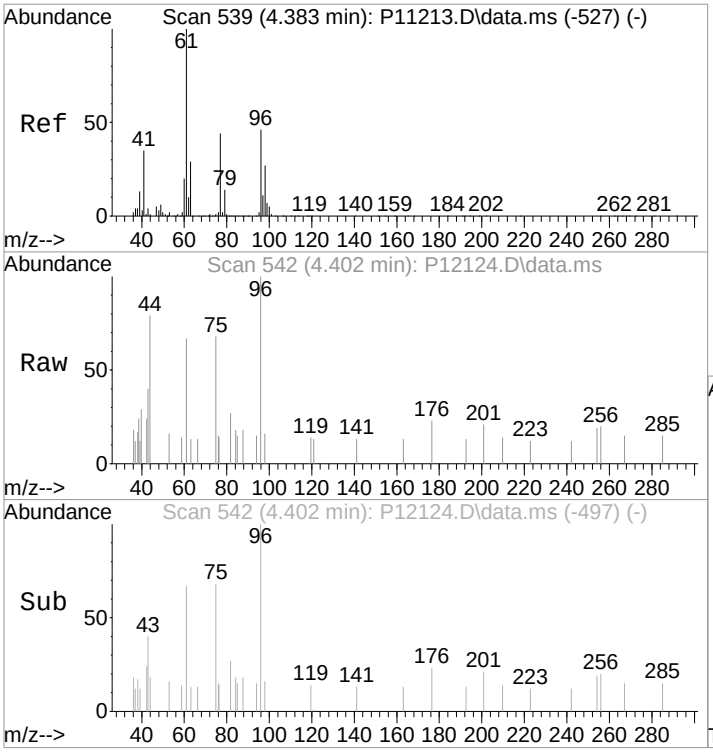


#15
Acetone
Concen: 0.99 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12124.D
Acq: 16 Sep 2017 12:38 am

Tgt Ion: 43 Resp: 3185

Ion	Ratio	Lower	Upper
43	100		
58	30.2	12.3	52.3
42	5.1	0.0	27.4

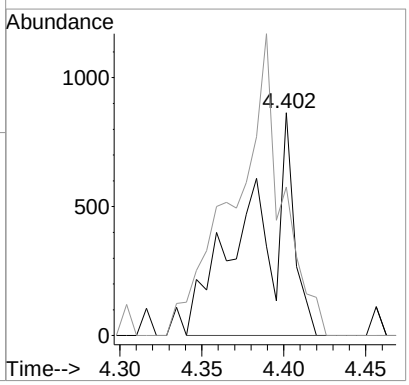


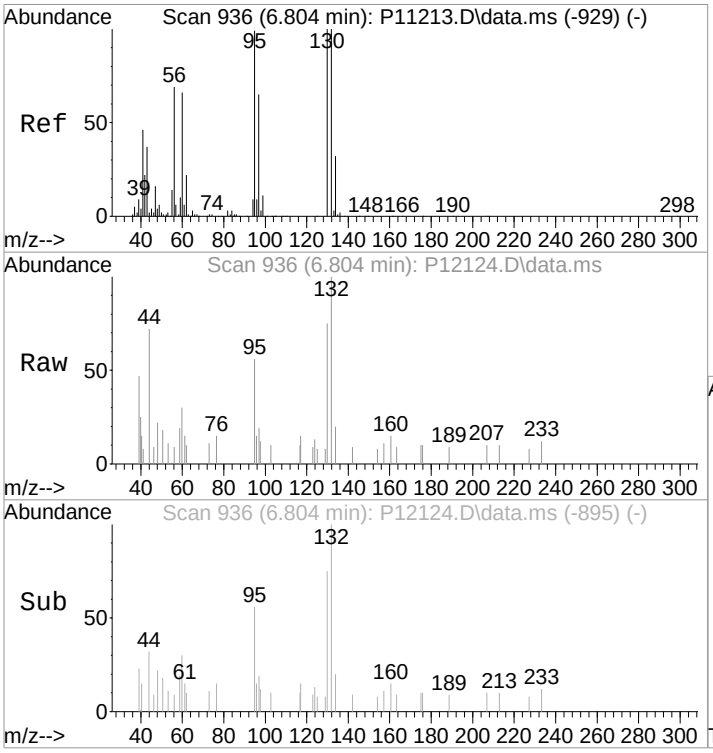


#34
cis-1,2-Dichloroethene
Concen: 0.44 ppb m
RT: 4.402 min Scan# 542
Delta R.T. 0.017 min
Lab File: P12124.D
Acq: 16 Sep 2017 12:38 am

Tgt Ion: 96 Resp: 1538

Ion	Ratio	Lower	Upper
96	100		
61	66.7	197.5	237.5#

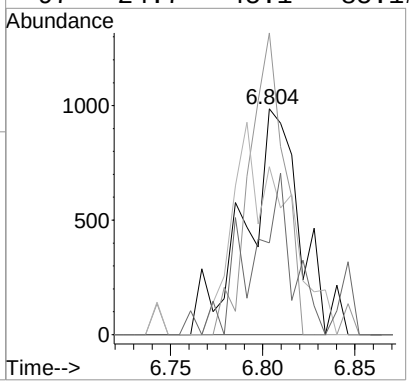


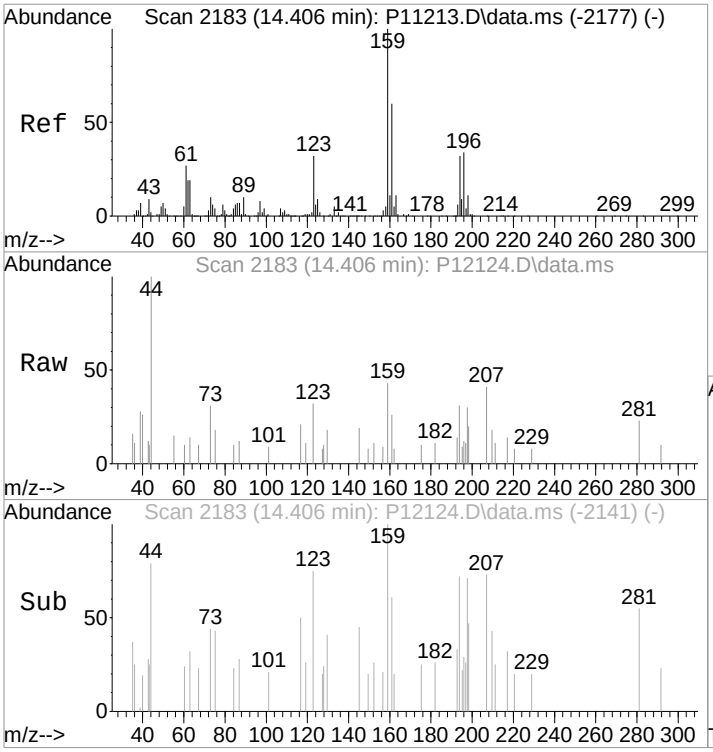


#54
Trichloroethene
Concen: 0.61 ppb m
RT: 6.804 min Scan# 936
Delta R.T. 0.000 min
Lab File: P12124.D
Acq: 16 Sep 2017 12:38 am

Tgt Ion:130 Resp: 1966

Ion	Ratio	Lower	Upper
130	100		
132	133.7	80.0	120.0#
95	74.3	79.4	119.4#
97	24.7	45.1	85.1#

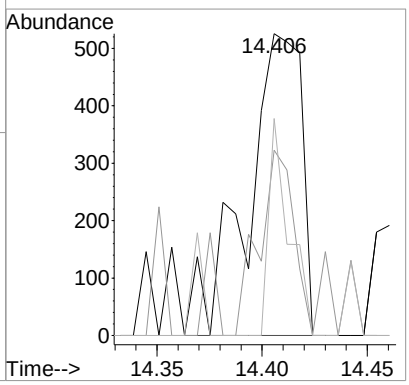




#119
2,4,5-Trichlorotolene
Concen: 0.23 ppb
RT: 14.406 min Scan# 2183
Delta R.T. 0.004 min
Lab File: P12124.D
Acq: 16 Sep 2017 12:38 am

Tgt Ion:159 Resp: 958

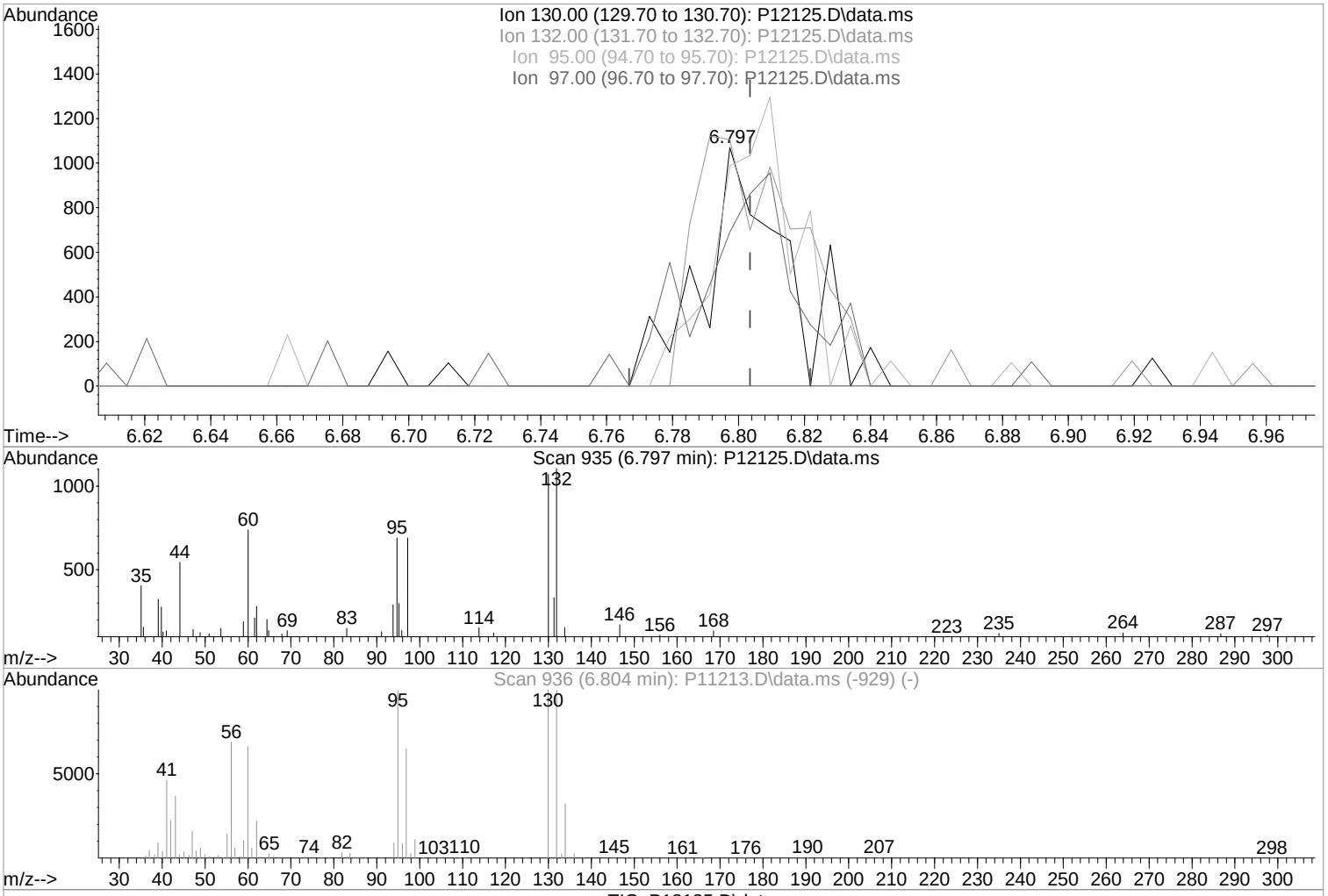
Ion	Ratio	Lower	Upper
159	100		
161	61.4	48.3	72.5
194	71.9	25.8	38.6#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12125.D
Acq On : 16 Sep 2017 1:00 am
Operator : K.Ruest
Sample : R1708647-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 18 09:54:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12125.D\data.ms

(54) Trichloroethene (P)

6.797min (-0.006) 0.60 ppb m

response 1927

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	103.36
95.00	99.40	64.58#
97.00	65.10	64.58

Manual Integration:

After

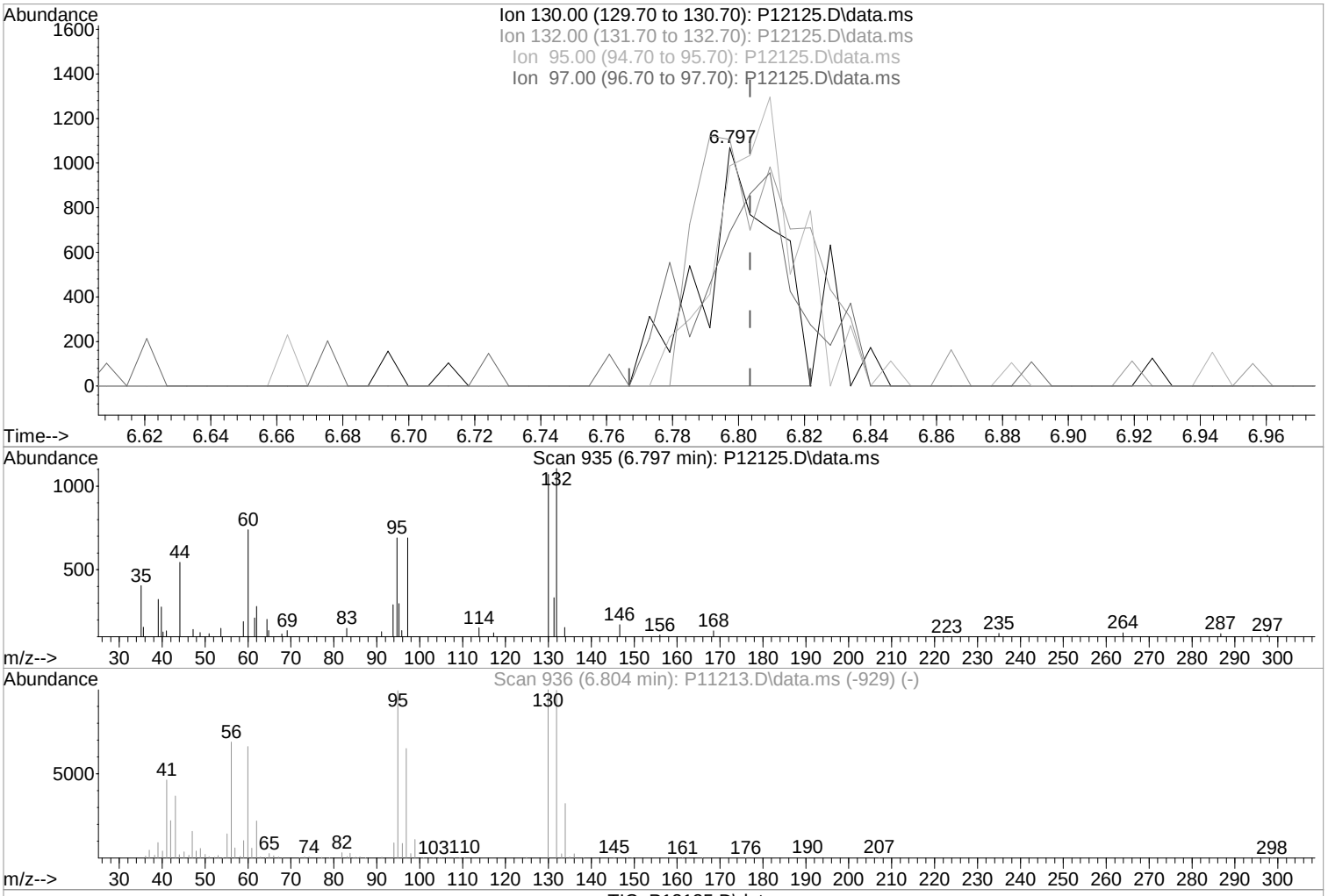
Split Peak

09/18/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12125.D
Acq On : 16 Sep 2017 1:00 am
Operator : K.Ruest
Sample : R1708647-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 18 09:54:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12125.D\data.ms

(54) Trichloroethene (P)

6.797min (-0.006) 0.51 ppb

response 1632

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	103.36
95.00	99.40	92.34
97.00	65.10	64.58

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12125.D
Acq On : 16 Sep 2017 1:00 am
Operator : K.Ruest
Sample : R1708647-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 18 14:27:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

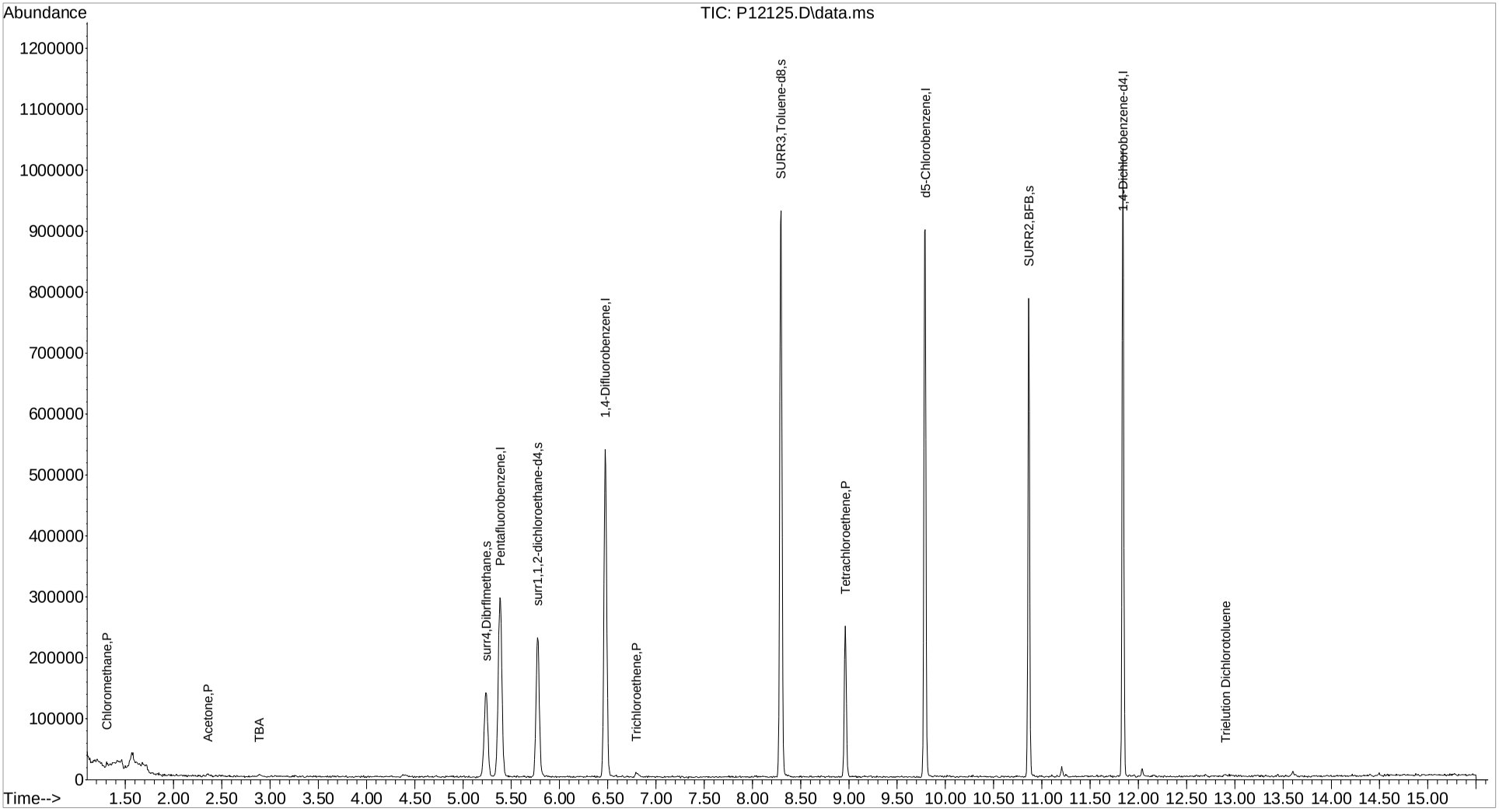
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	261456	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	423423	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	372290	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	185986	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	115521	48.92	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.84%				
48) surr1,1,2-dichloroetha...	5.773	65	185280	49.23	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.46%				
65) SURR3,Toluene-d8	8.297	98	542071	49.68	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.36%				
70) SURR2,BFB	10.864	95	201011	46.86	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.72%				
Target Compounds							Qvalue
3) Chloromethane	1.305	50	1631	0.24	ppb		89
15) Acetone	2.359	43	4347	1.36	ppb		93
23) TBA	2.890	59	1914	2.08	ppb		71
54) Trichloroethene	6.797	130	1927m	0.60	ppb		
72) Tetrachloroethene	8.962	164	44415	19.39	ppb	#	79
112) Trielution Dichlorotol...	12.906	125	1314	0.21	ppb	#	52

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

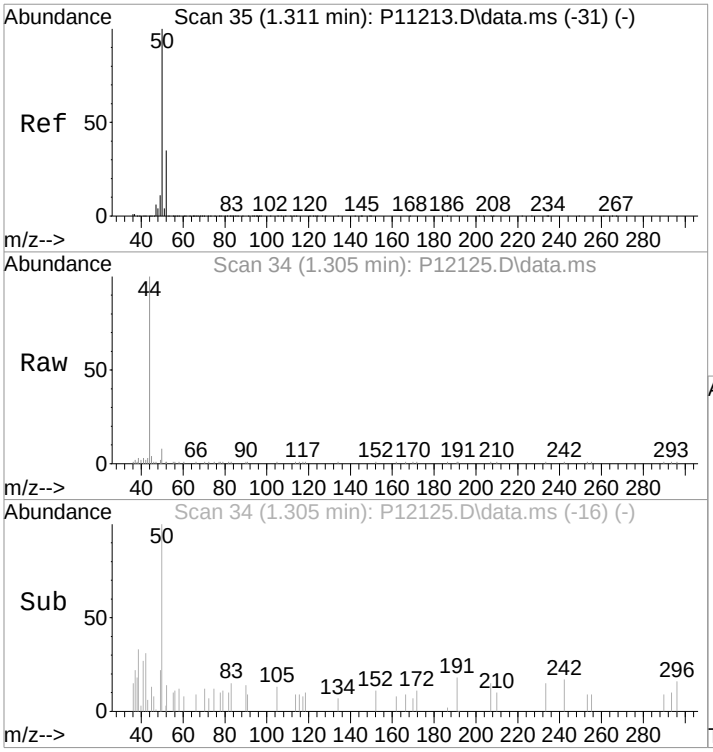
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12125.D
Acq On : 16 Sep 2017 1:00 am
Operator : K.Ruest
Sample : R1708647-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 18 14:27:52 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



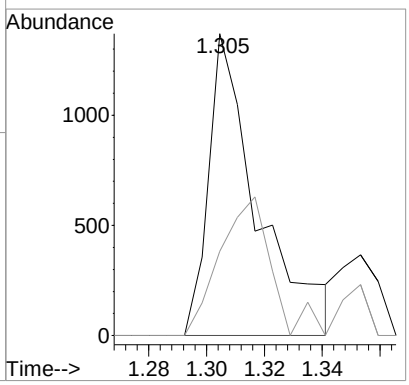
1st KR 09/18/17
2nd BA 09/20/17

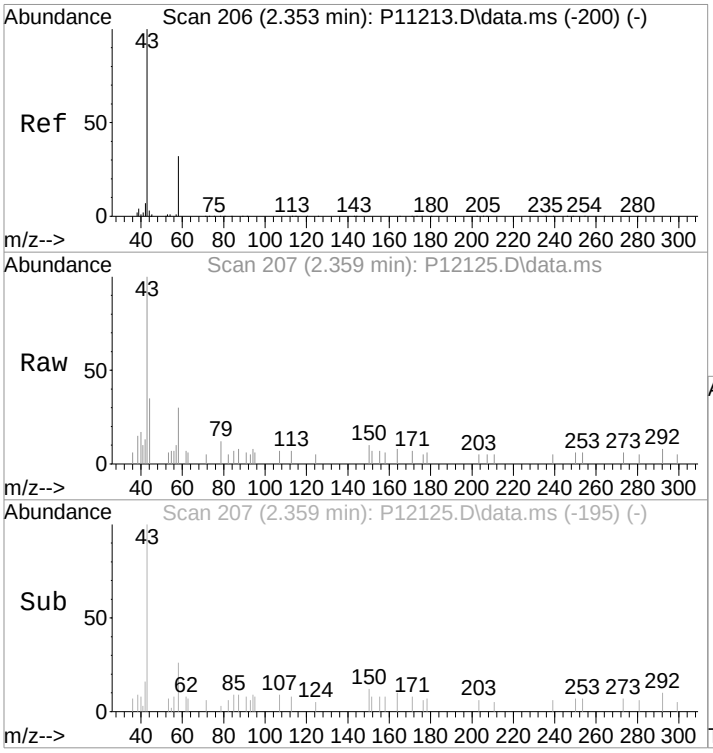


#3
Chloromethane
Concen: 0.24 ppb
RT: 1.305 min Scan# 34
Delta R.T. -0.004 min
Lab File: P12125.D
Acq: 16 Sep 2017 1:00 am

Tgt Ion: 50 Resp: 1631

Ion	Ratio	Lower	Upper
50	100		
52	27.9	14.5	54.5

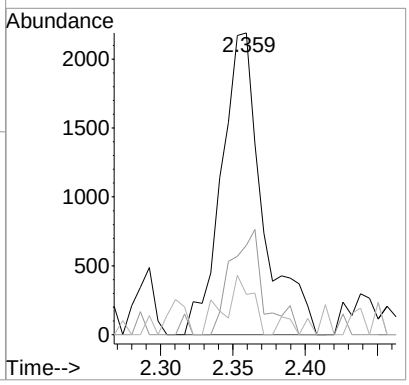


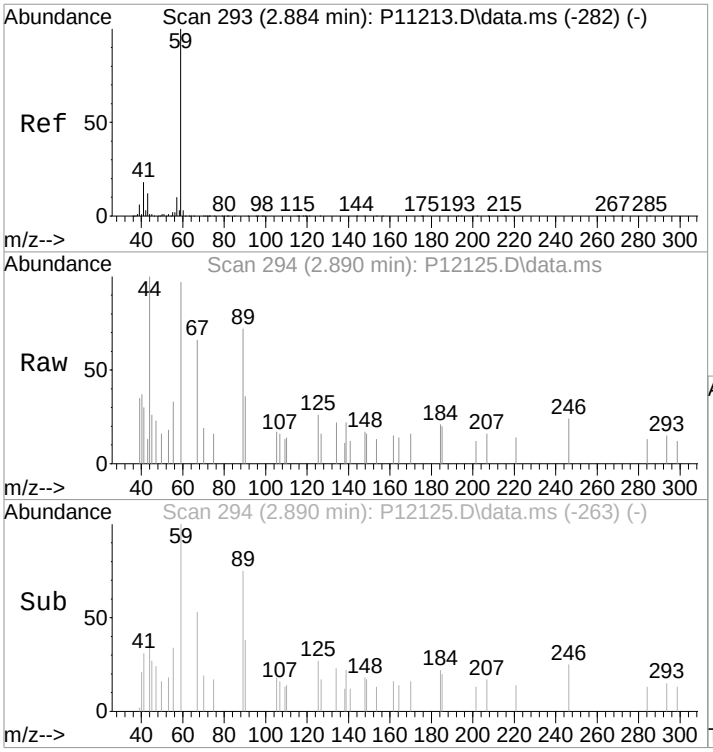


#15
Acetone
Concen: 1.36 ppb
RT: 2.359 min Scan# 207
Delta R.T. 0.002 min
Lab File: P12125.D
Acq: 16 Sep 2017 1:00 am

Tgt Ion: 43 Resp: 4347

Ion	Ratio	Lower	Upper
43	100		
58	29.5	12.3	52.3
42	13.4	0.0	27.4

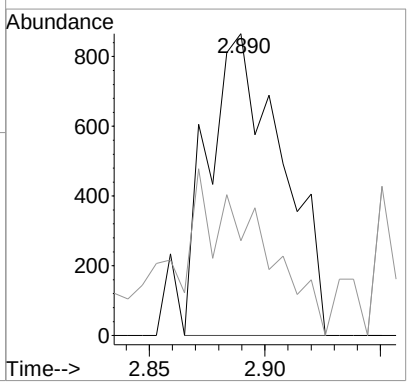


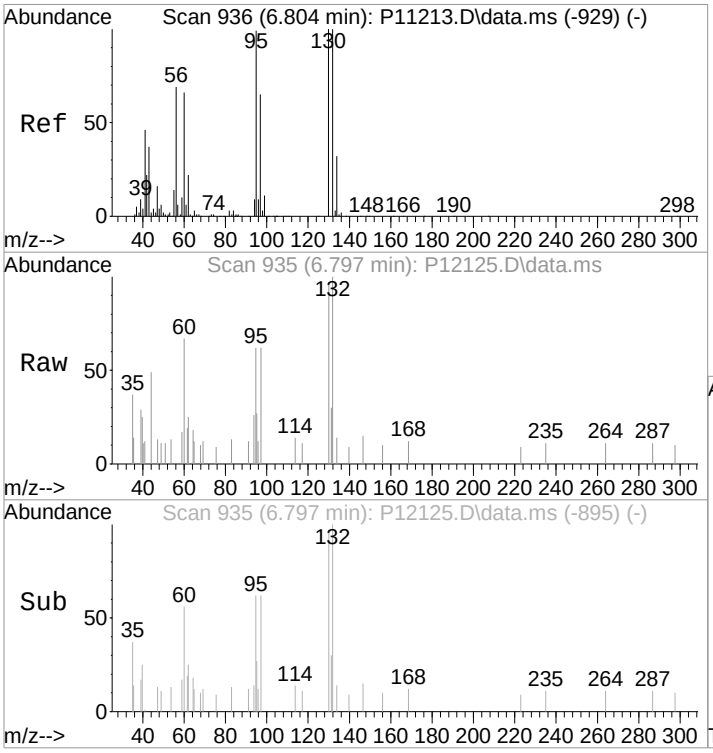


#23
TBA
Concen: 2.08 ppb
RT: 2.890 min Scan# 294
Delta R.T. 0.004 min
Lab File: P12125.D
Acq: 16 Sep 2017 1:00 am

Tgt Ion: 59 Resp: 1914

Ion	Ratio	Lower	Upper
59	100		
41	31.4	0.0	38.3

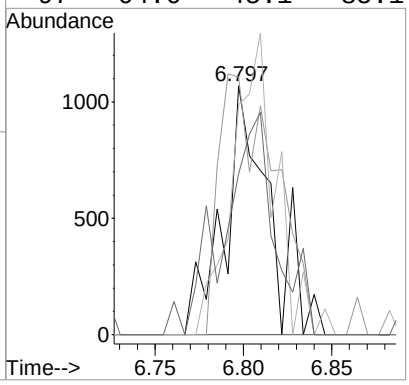


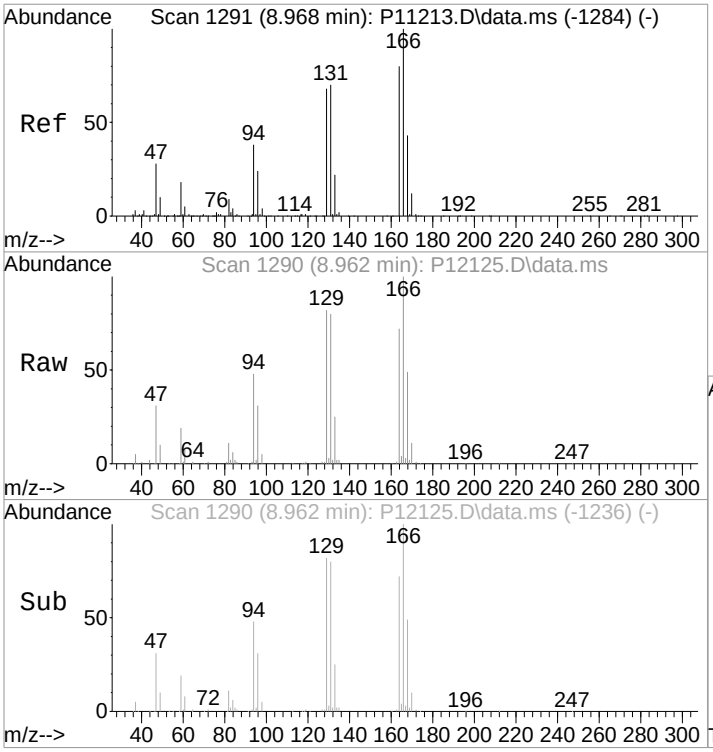


#54
Trichloroethene
Concen: 0.60 ppb m
RT: 6.797 min Scan# 935
Delta R.T. -0.006 min
Lab File: P12125.D
Acq: 16 Sep 2017 1:00 am

Tgt Ion:130 Resp: 1927

Ion	Ratio	Lower	Upper
130	100		
132	103.4	80.0	120.0
95	64.6	79.4	119.4#
97	64.6	45.1	85.1

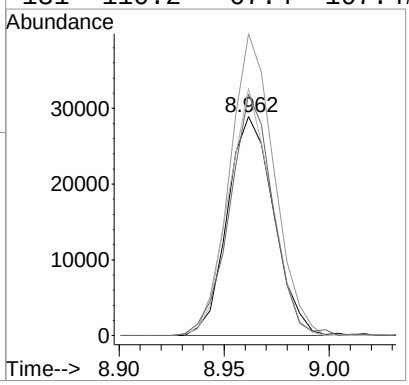


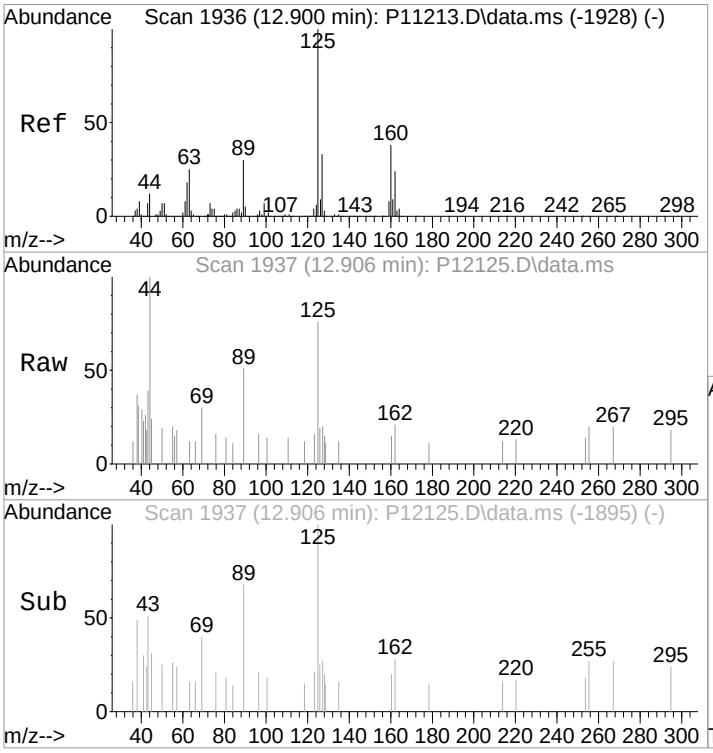


#72
Tetrachloroethene
Concen: 19.39 ppb
RT: 8.962 min Scan# 1290
Delta R.T. -0.000 min
Lab File: P12125.D
Acq: 16 Sep 2017 1:00 am

Tgt Ion:164 Resp: 44415

Ion	Ratio	Lower	Upper
164	100		
166	137.9	105.1	145.1
129	112.8	65.3	105.3#
131	110.2	67.4	107.4#

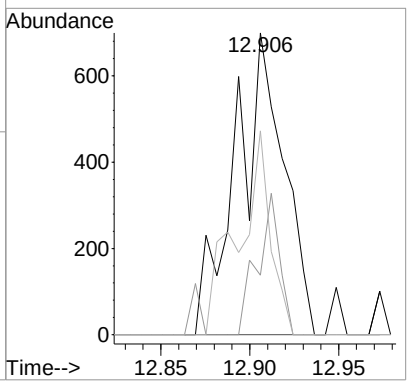




#112
Trielution Dichlorotoluene
Concen: 0.21 ppb
RT: 12.906 min Scan# 1937
Delta R.T. 0.004 min
Lab File: P12125.D
Acq: 16 Sep 2017 1:00 am

Tgt Ion:125 Resp: 1314

Ion	Ratio	Lower	Upper
125	100		
160	19.7	30.6	46.0#
89	67.6	24.1	36.1#

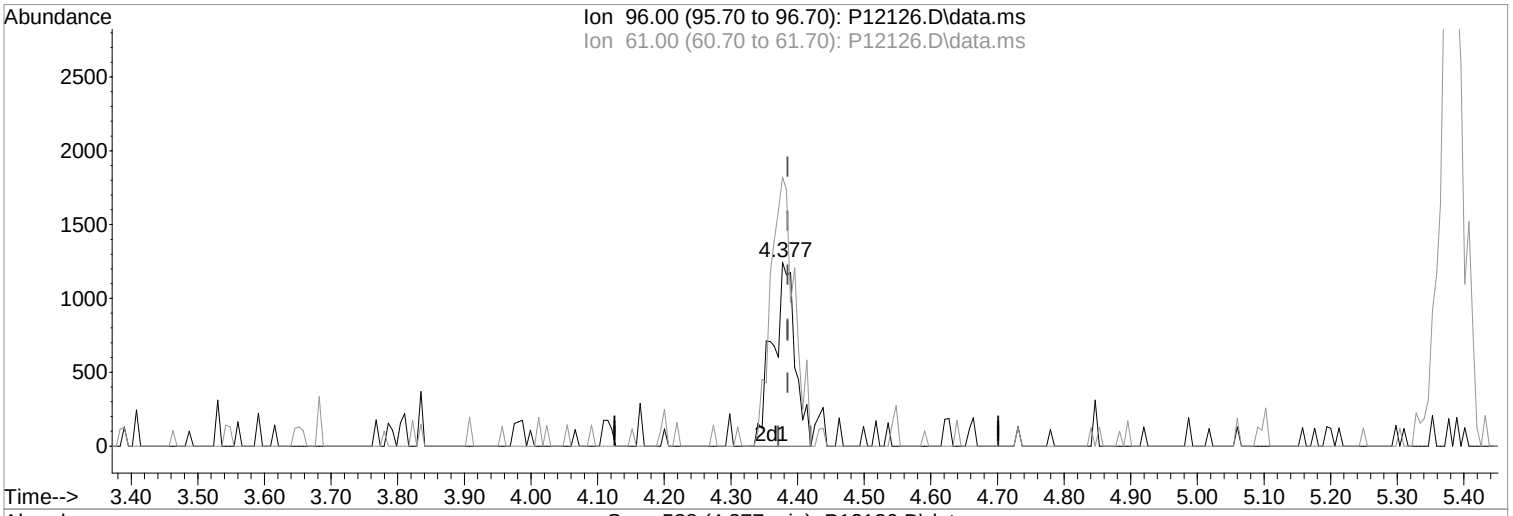


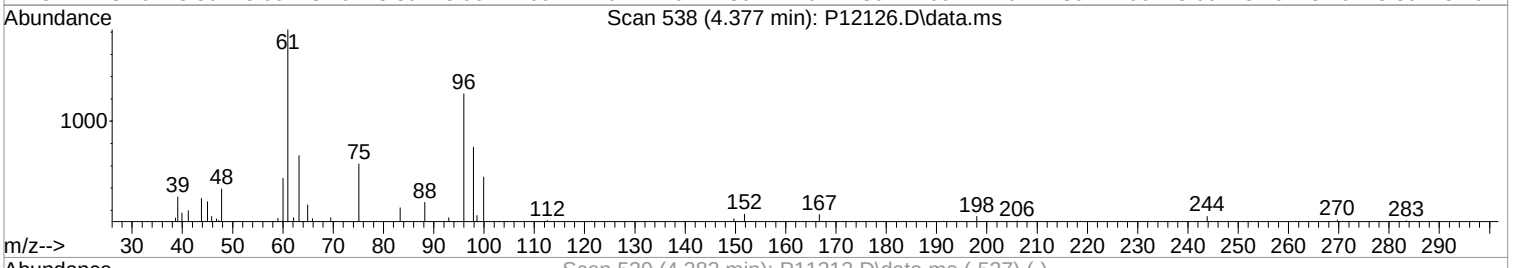
1st 09/18/17
2nd 09/20/17

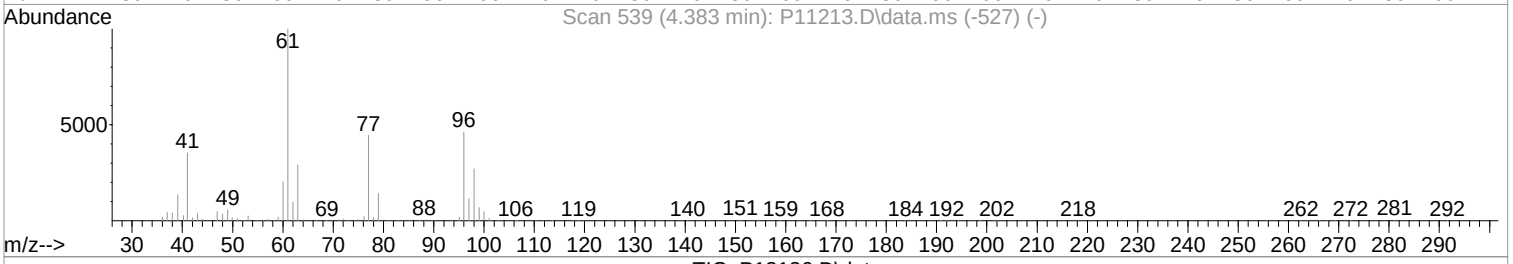
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12126.D
Acq On : 16 Sep 2017 1:22 am
Operator : K.Ruest
Sample : R1708647-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 18 09:54:31 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12126.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.377min (-0.008) 0.84 ppb m

response 2922

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	146.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

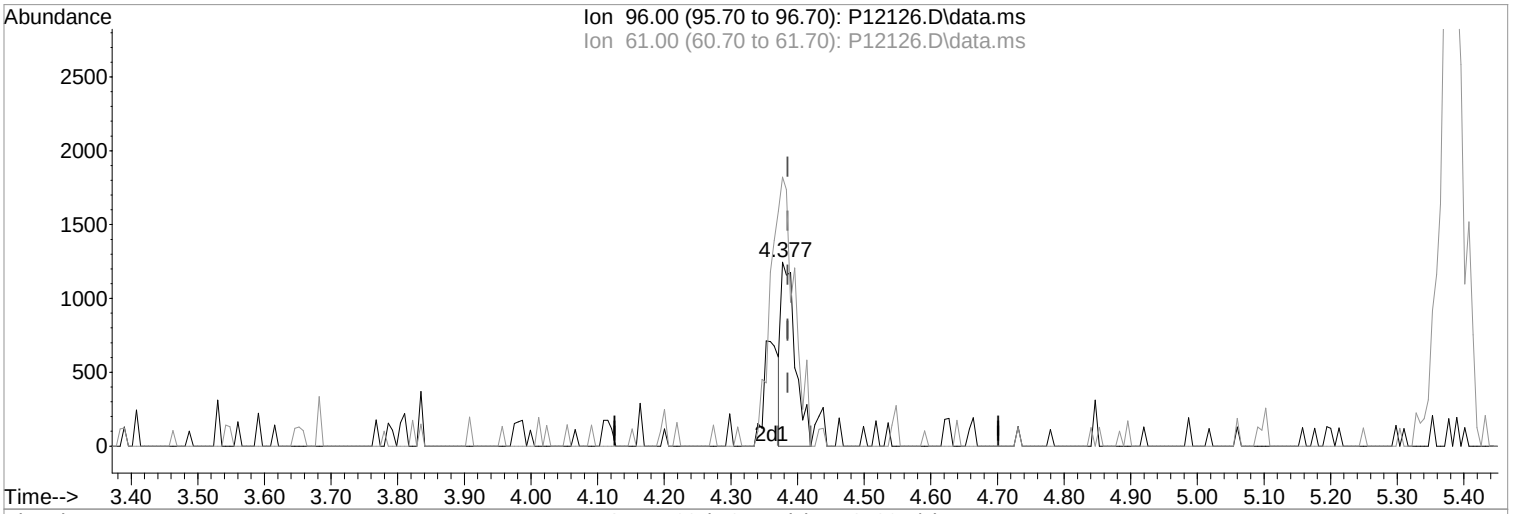
09/18/17

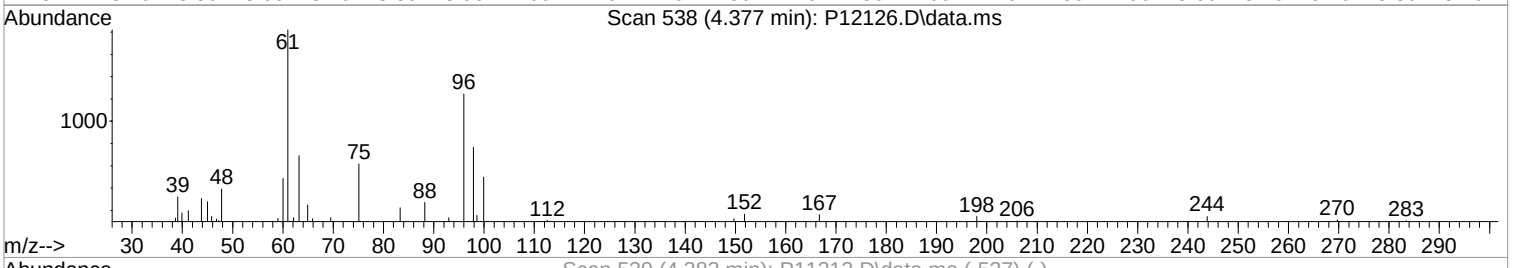
1st 09/18/17
2nd 09/20/17

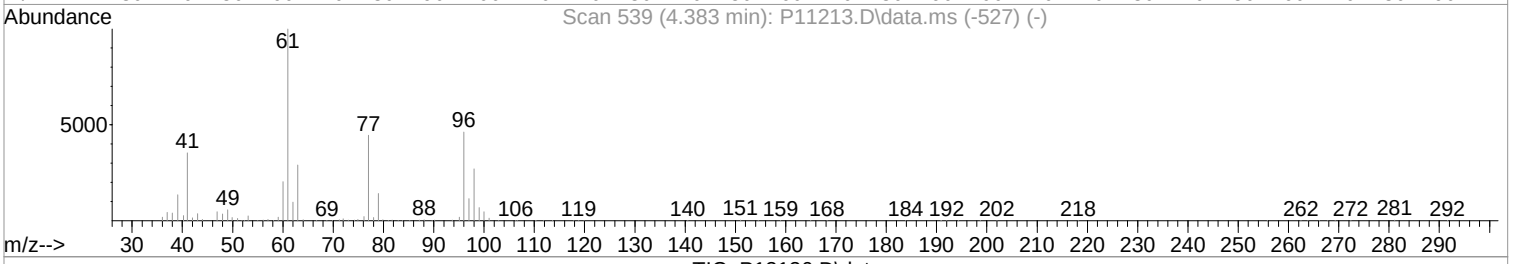
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12126.D
Acq On : 16 Sep 2017 1:22 am
Operator : K.Ruest
Sample : R1708647-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 18 09:54:31 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12126.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.377min (-0.008) 0.53 ppb

response 1835

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	146.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

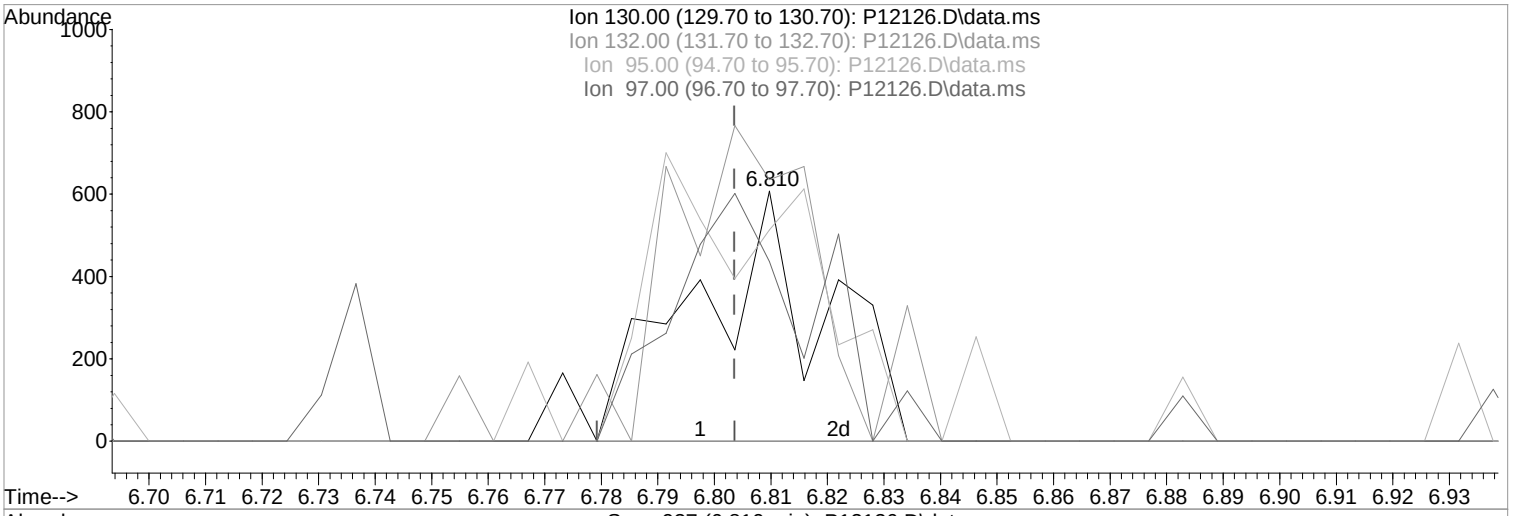
Before

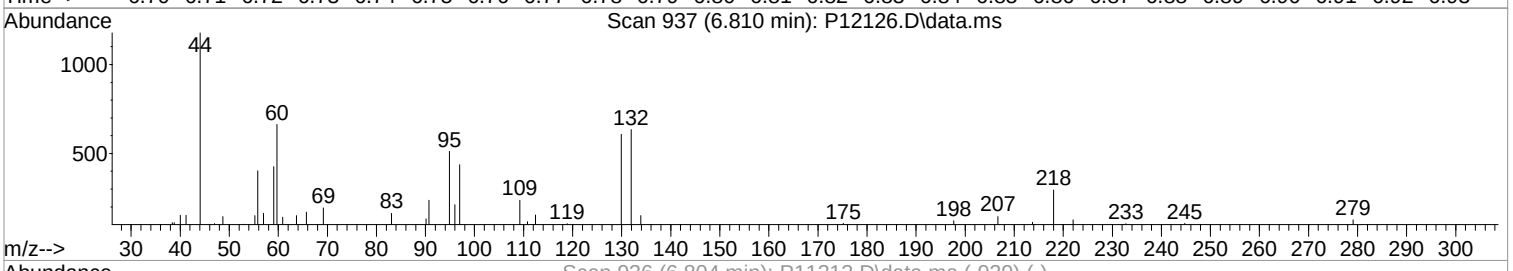
09/18/17

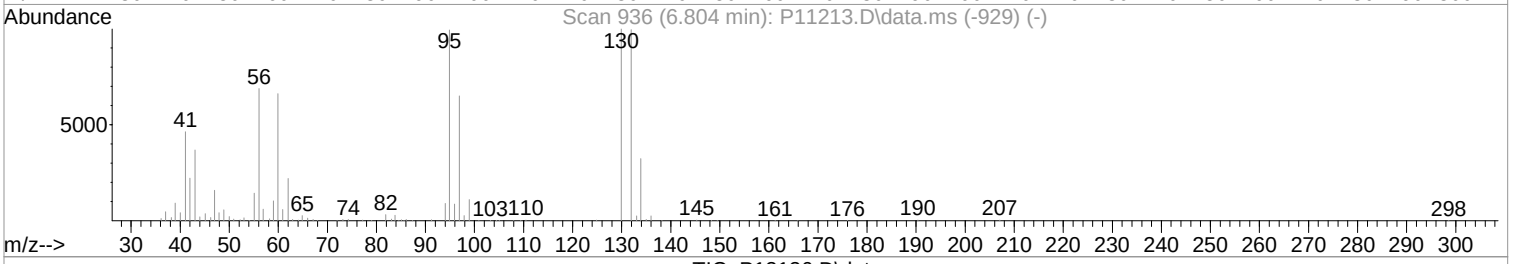
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12126.D
Acq On : 16 Sep 2017 1:22 am
Operator : K.Ruest
Sample : R1708647-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 18 09:54:31 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12126.D\data.ms

(54) Trichloroethene (P)

6.810min (+0.006) 0.30 ppb m

response 978

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	104.61
95.00	99.40	84.51
97.00	65.10	71.83

Manual Integration:

After

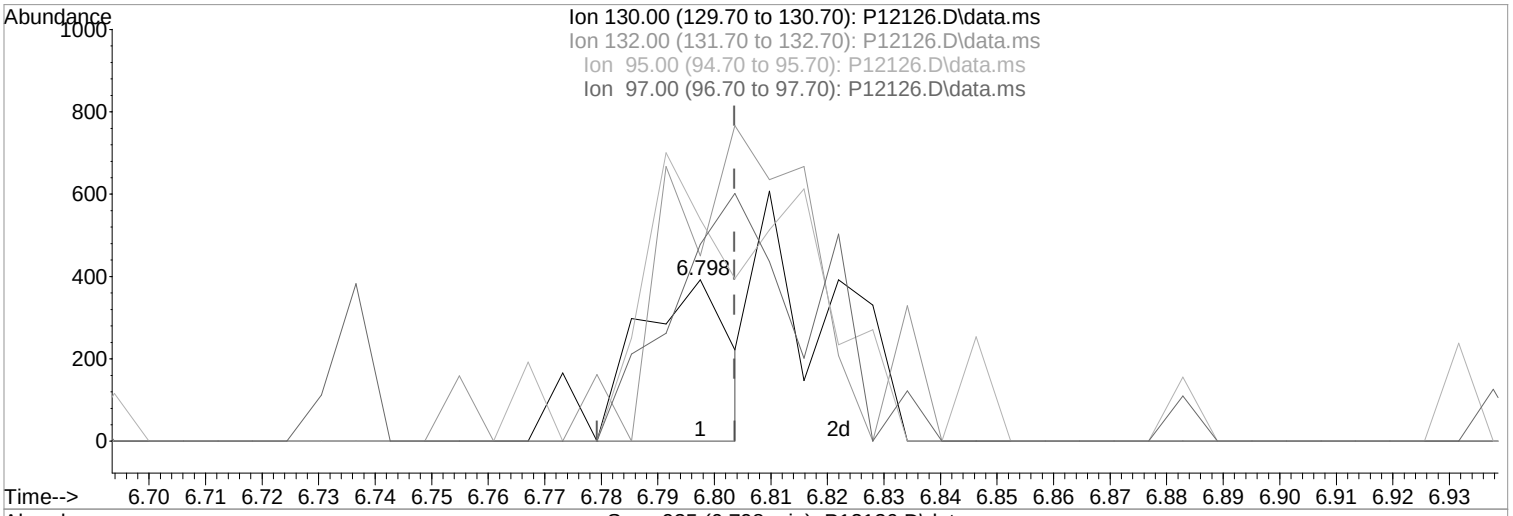
Split Peak

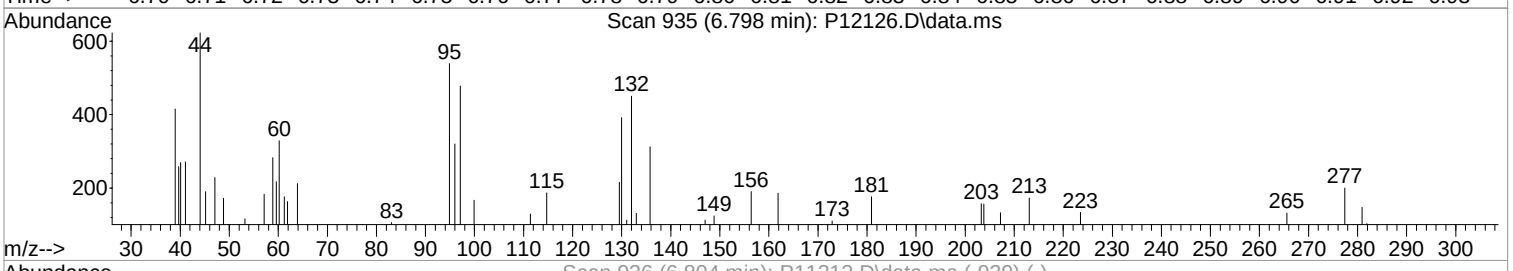
09/18/17

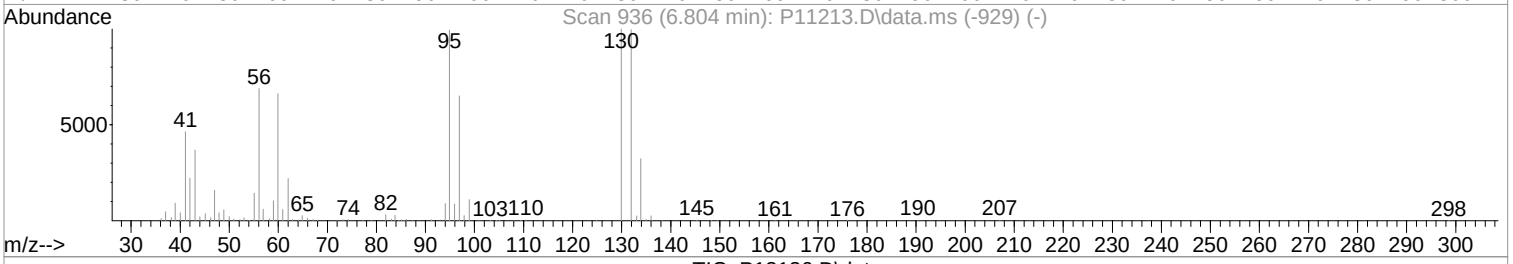
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12126.D
Acq On : 16 Sep 2017 1:22 am
Operator : K.Ruest
Sample : R1708647-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 18 09:54:31 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12126.D\data.ms

(54) Trichloroethene (P)

6.798min (-0.006) 0.13 ppb

response 438

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	114.80
95.00	99.40	137.50#
97.00	65.10	121.94#

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12126.D
Acq On : 16 Sep 2017 1:22 am
Operator : K.Ruest
Sample : R1708647-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 18 14:30:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

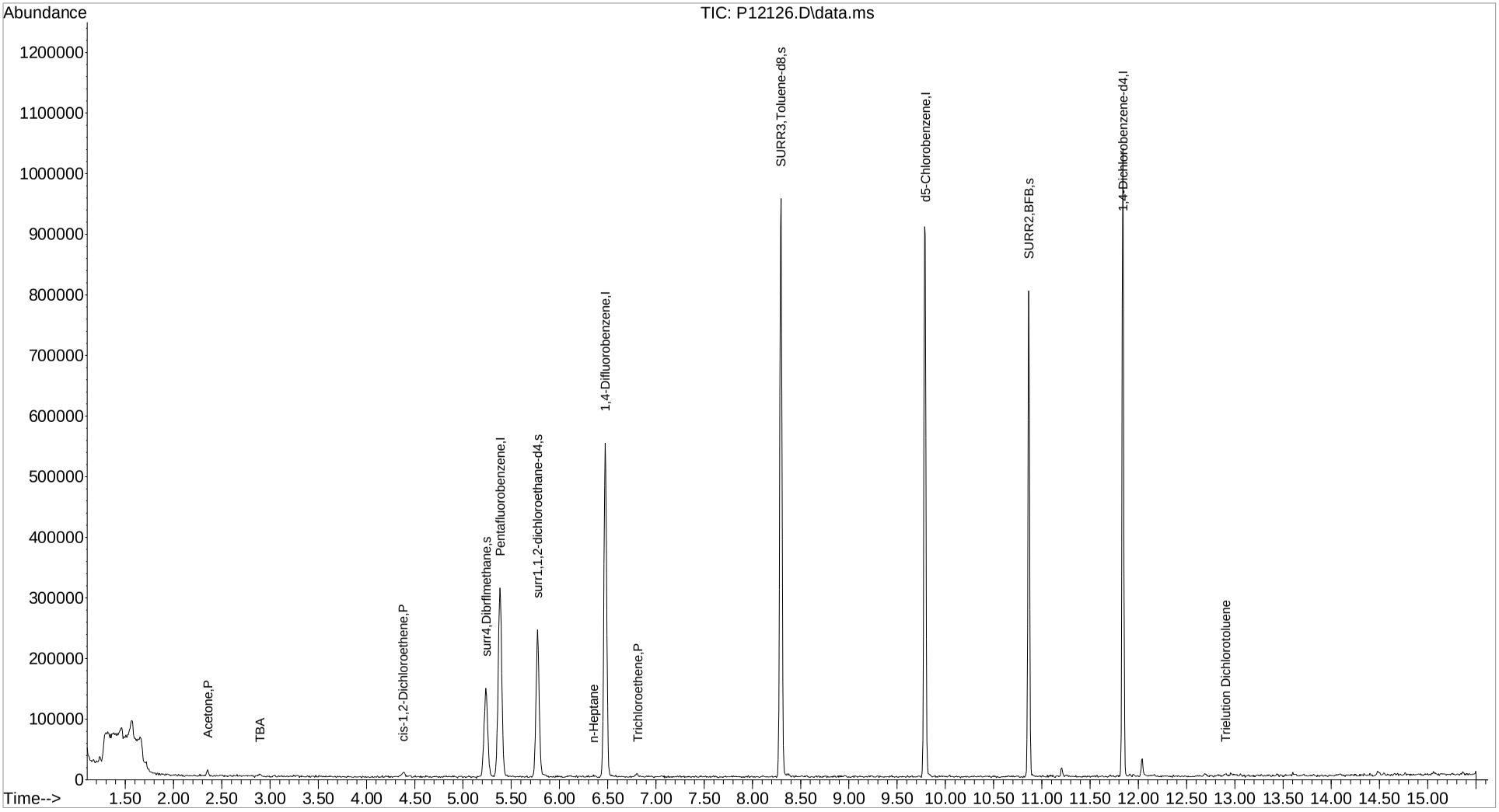
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	265338	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	434313	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	386765	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	188806	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	119532	49.35	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.70%				
48) surr1,1,2-dichloroetha...	5.773	65	182882	47.37	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 94.74%				
65) SURR3,Toluene-d8	8.297	98	551142	49.24	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.48%				
70) SURR2,BFB	10.864	95	208686	47.43	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.86%				
Target Compounds							Qvalue
15) Acetone	2.353	43	10721	3.32	ppb		94
23) TBA	2.896	59	2000	2.14	ppb	#	55
34) cis-1,2-Dichloroethene	4.377	96	2922m	0.84	ppb		
52) n-Heptane	6.353	43	1563	0.23	ppb		77
54) Trichloroethene	6.810	130	978m	0.30	ppb		
112) Trielution Dichlorotol...	12.906	125	1722	0.28	ppb	#	54

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

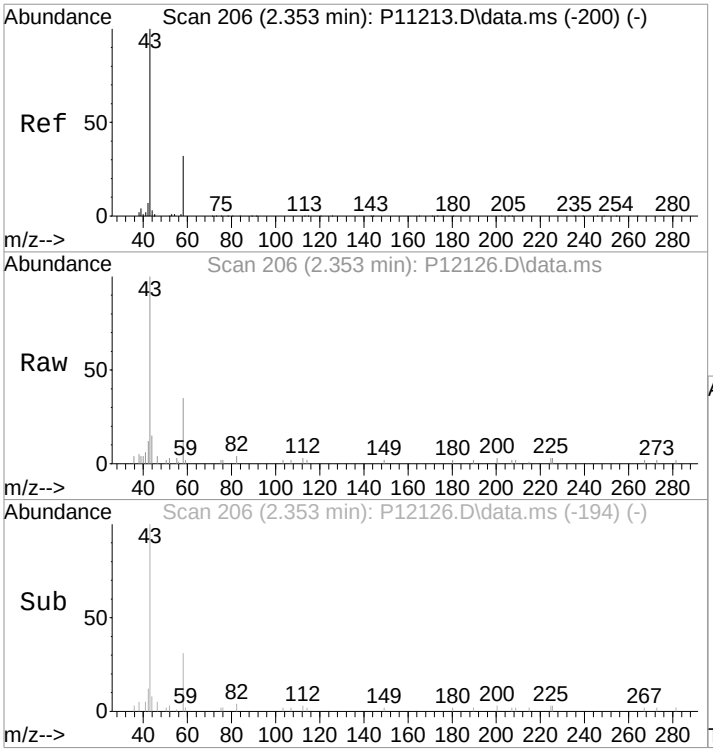
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12126.D
Acq On : 16 Sep 2017 1:22 am
Operator : K.Ruest
Sample : R1708647-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 18 14:30:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



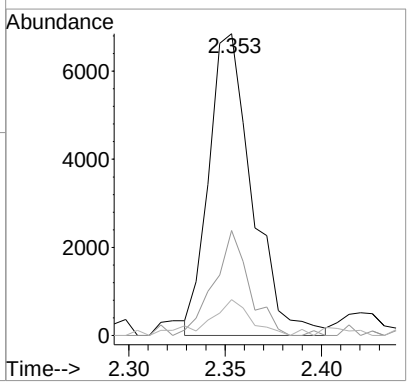
1st KR 09/18/17
2nd BA 09/20/17

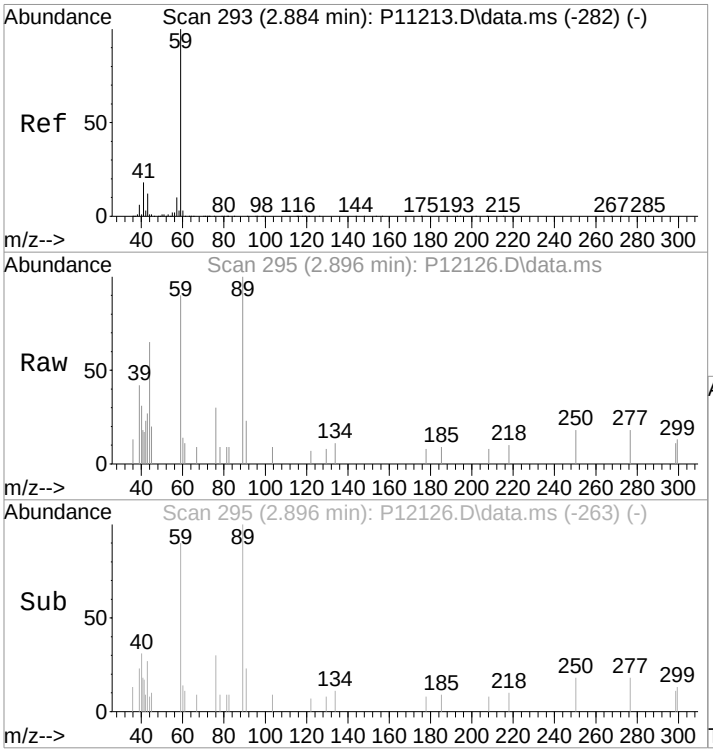


#15
Acetone
Concen: 3.32 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12126.D
Acq: 16 Sep 2017 1:22 am

Tgt Ion: 43 Resp: 10721

Ion	Ratio	Lower	Upper
43	100		
58	34.8	12.3	52.3
42	11.9	0.0	27.4

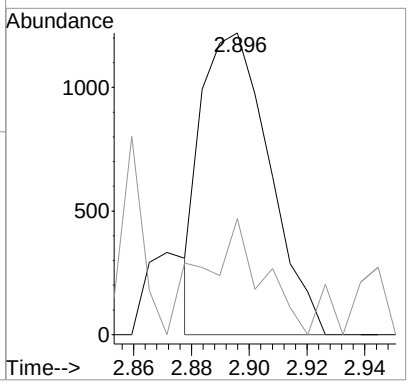


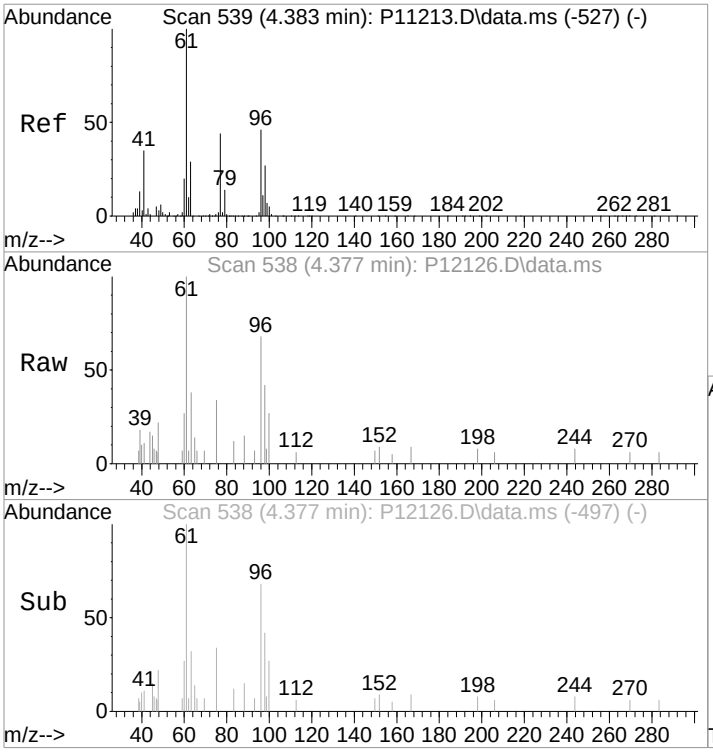


#23
TBA
Concen: 2.14 ppb
RT: 2.896 min Scan# 295
Delta R.T. 0.010 min
Lab File: P12126.D
Acq: 16 Sep 2017 1:22 am

Tgt Ion: 59 Resp: 2000

Ion	Ratio	Lower	Upper
59	100		
41	38.5	0.0	38.3#

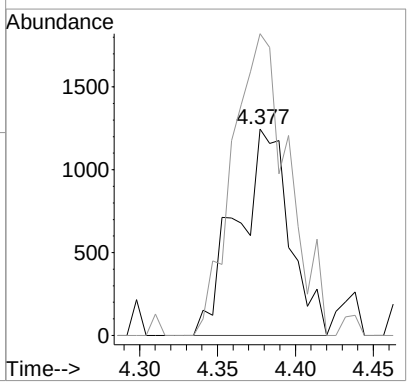


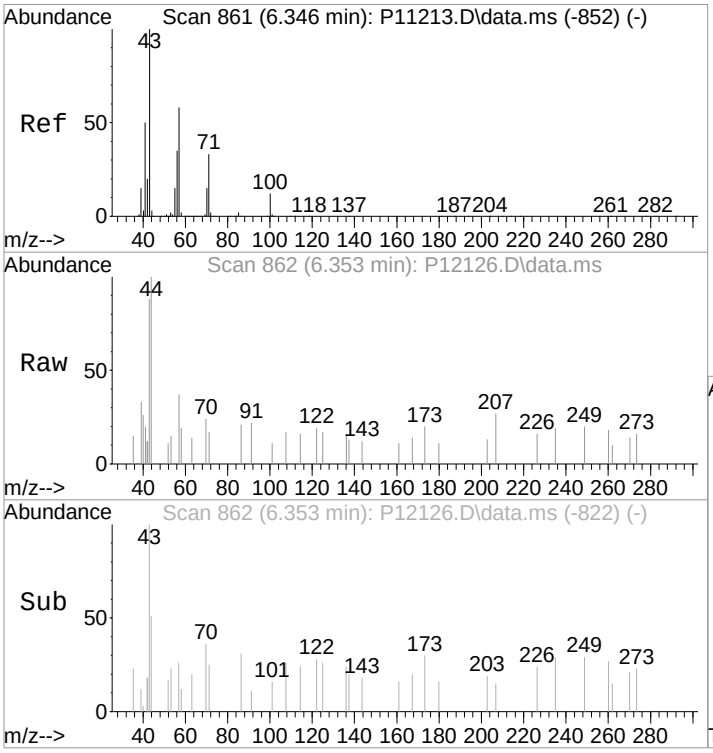


#34
cis-1,2-Dichloroethene
Concen: 0.84 ppb m
RT: 4.377 min Scan# 538
Delta R.T. -0.008 min
Lab File: P12126.D
Acq: 16 Sep 2017 1:22 am

Tgt Ion: 96 Resp: 2922

Ion	Ratio	Lower	Upper
96	100		
61	146.3	197.5	237.5#

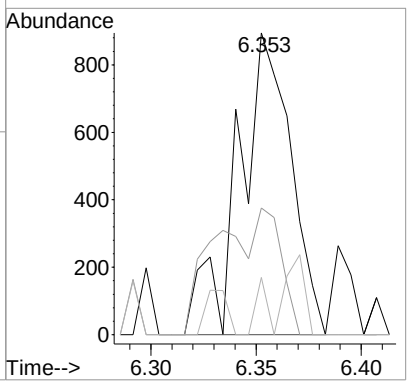


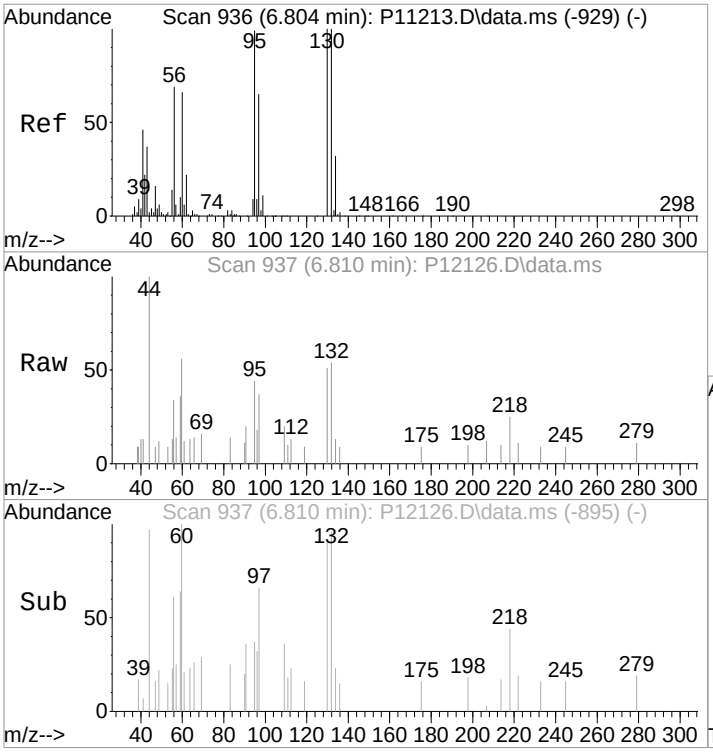


#52
n-Heptane
Concen: 0.23 ppb
RT: 6.353 min Scan# 862
Delta R.T. 0.010 min
Lab File: P12126.D
Acq: 16 Sep 2017 1:22 am

Tgt Ion: 43 Resp: 1563

Ion	Ratio	Lower	Upper
43	100		
57	42.0	38.4	78.4
71	19.0	13.2	53.2

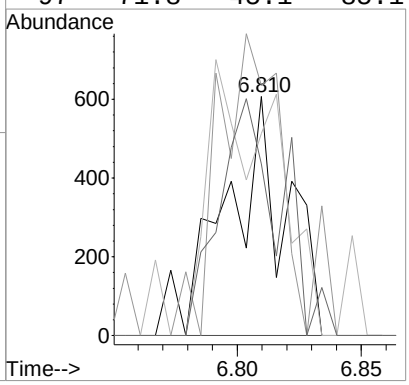


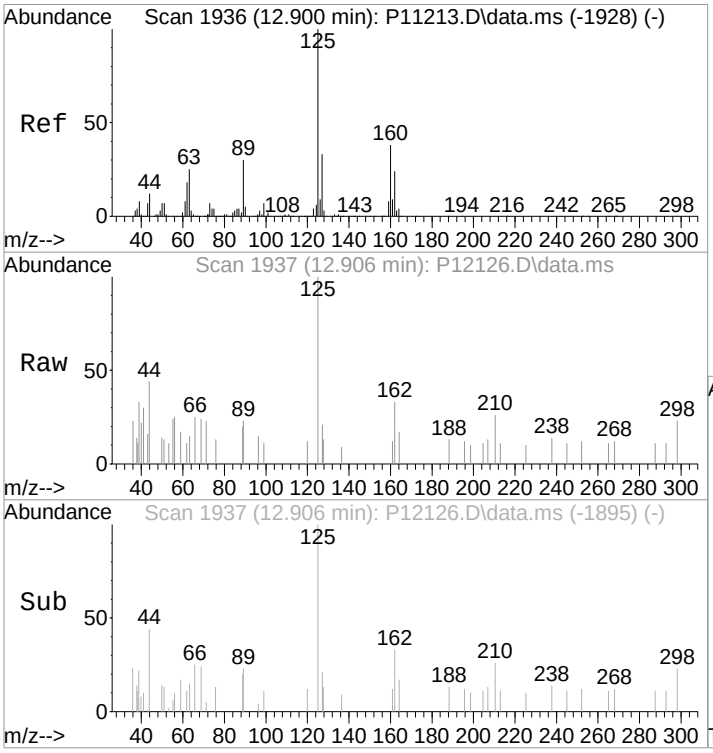


#54
Trichloroethene
Concen: 0.30 ppb m
RT: 6.810 min Scan# 937
Delta R.T. 0.006 min
Lab File: P12126.D
Acq: 16 Sep 2017 1:22 am

Tgt Ion:130 Resp: 978

Ion	Ratio	Lower	Upper
130	100		
132	104.6	80.0	120.0
95	84.5	79.4	119.4
97	71.8	45.1	85.1

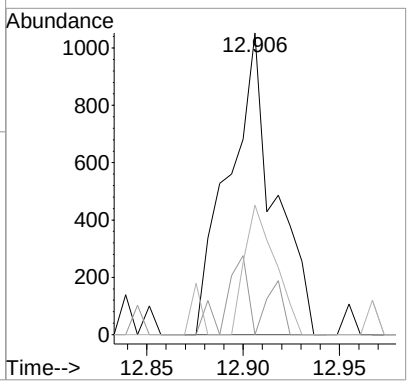




#112
Trielution Dichlorotoluene
Concen: 0.28 ppb
RT: 12.906 min Scan# 1937
Delta R.T. 0.004 min
Lab File: P12126.D
Acq: 16 Sep 2017 1:22 am

Tgt Ion:125 Resp: 1722

Ion	Ratio	Lower	Upper
125	100		
160	0.0	30.6	46.0#
89	42.9	24.1	36.1#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12120.D
Acq On : 15 Sep 2017 11:10 pm
Operator : K.Ruest
Sample : R1708647-006|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 18 13:59:06 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

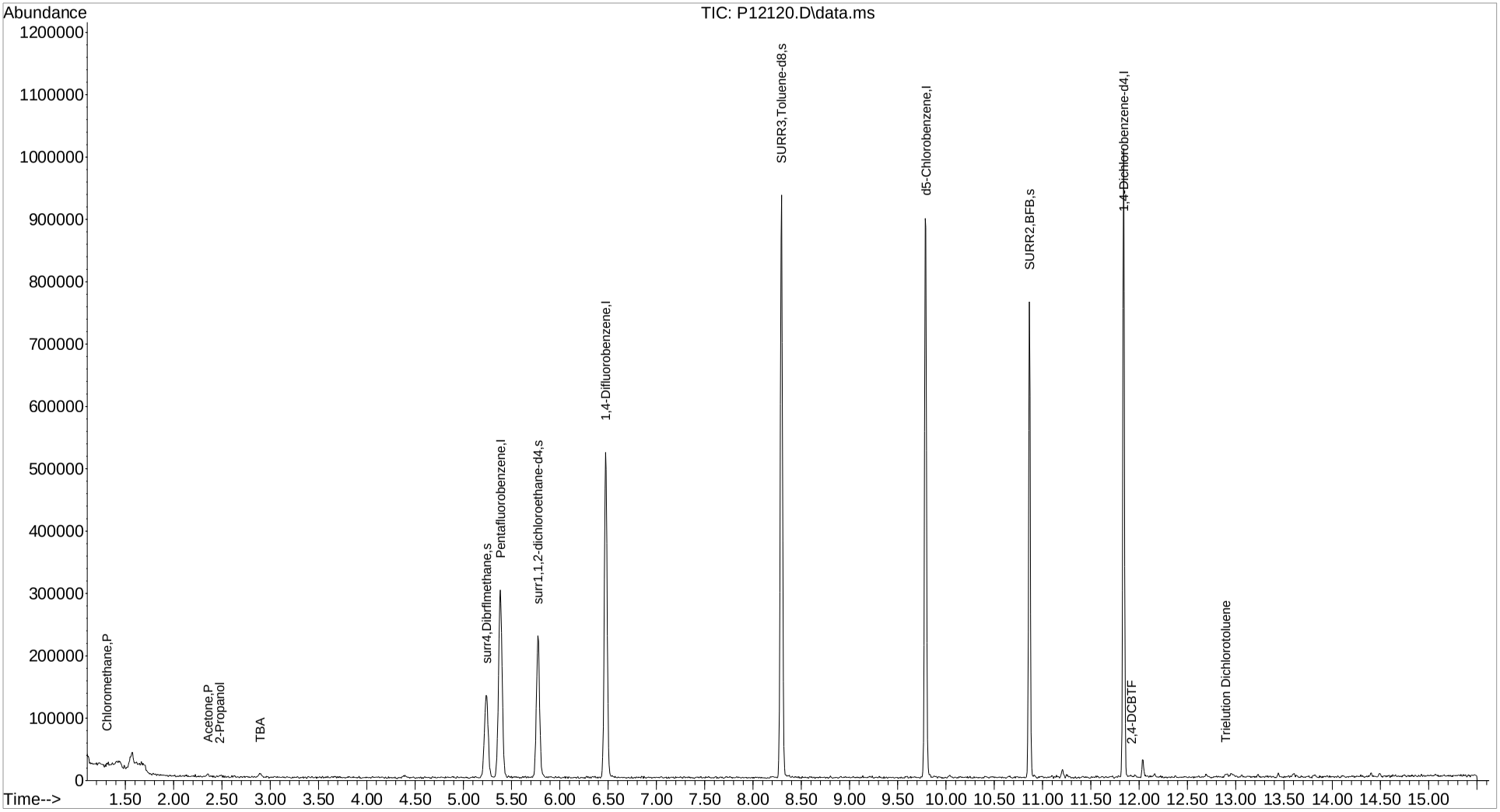
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	256653	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	421149	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	371379	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	182433	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	111518	47.48	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.96%				
48) surr1,1,2-dichloroetha...	5.773	65	178256	47.62	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 95.24%				
65) SURR3,Toluene-d8	8.297	98	526946	48.55	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.10%				
70) SURR2,BFB	10.864	95	202183	47.38	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.76%				
Target Compounds							Qvalue
3) Chloromethane	1.305	50	1555	0.23	ppb		86
15) Acetone	2.353	43	5509	1.76	ppb		76
16) 2-Propanol	2.475	45	2075	3.20	ppb		86
23) TBA	2.896	59	3058	3.39	ppb		59
107) 2,4-DCBTF	11.918	214	589	0.24	ppb	#	83
112) Trielution Dichlorotol...	12.894	125	1806	0.30	ppb	#	73

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

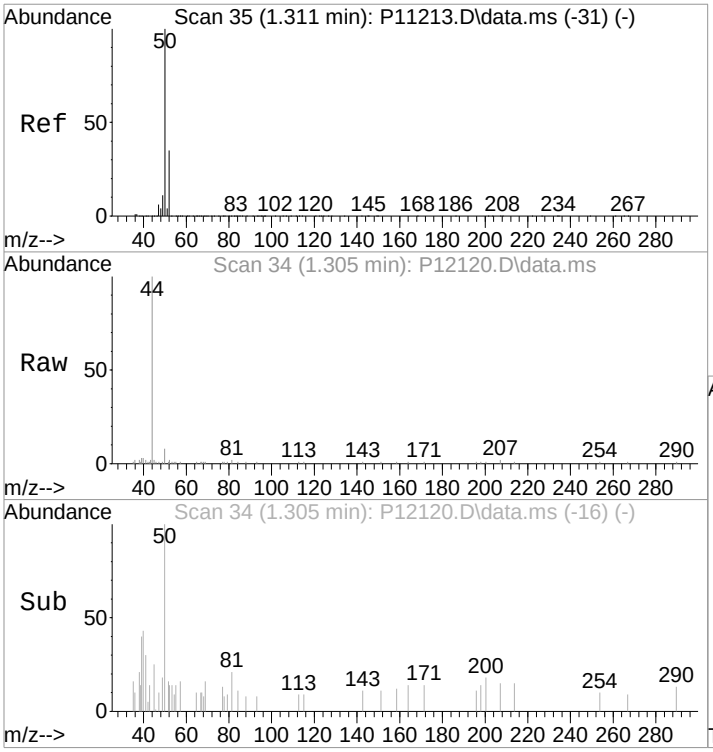
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12120.D
Acq On : 15 Sep 2017 11:10 pm
Operator : K.Ruest
Sample : R1708647-006|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 18 13:59:06 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



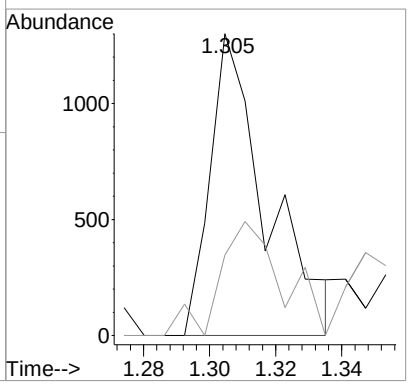
1st KR 09/18/17
2nd BA 09/20/17

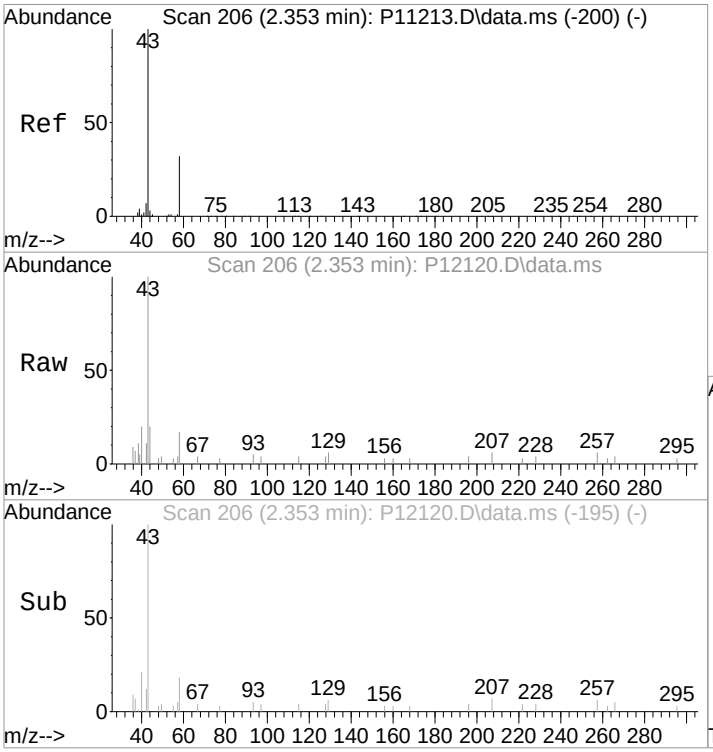


#3
Chloromethane
Concen: 0.23 ppb
RT: 1.305 min Scan# 34
Delta R.T. -0.004 min
Lab File: P12120.D
Acq: 15 Sep 2017 11:10 pm

Tgt Ion: 50 Resp: 1555

Ion	Ratio	Lower	Upper
50	100		
52	26.7	14.5	54.5

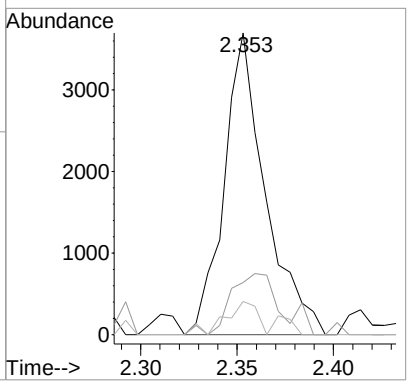


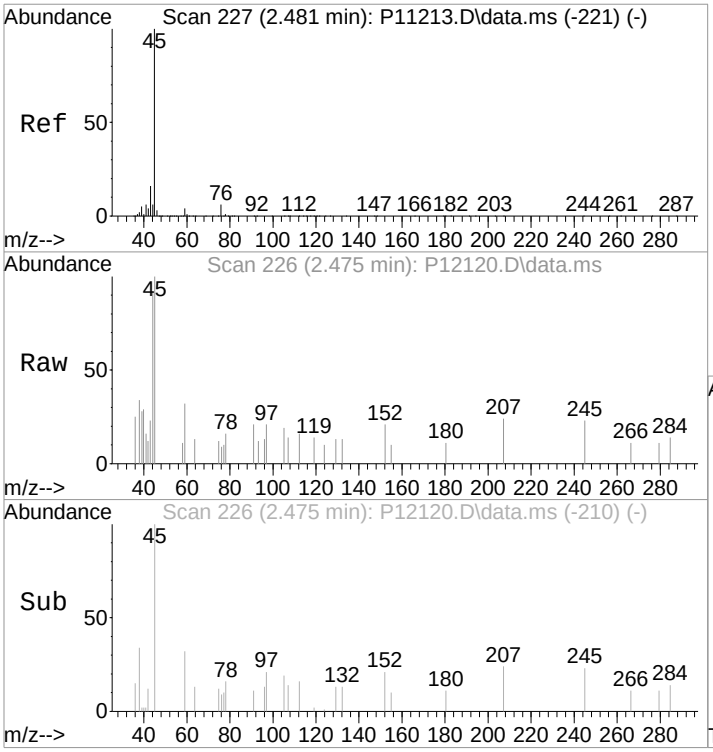


#15
Acetone
Concen: 1.76 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12120.D
Acq: 15 Sep 2017 11:10 pm

Tgt Ion: 43 Resp: 5509

Ion	Ratio	Lower	Upper
43	100		
58	17.3	12.3	52.3
42	11.1	0.0	27.4

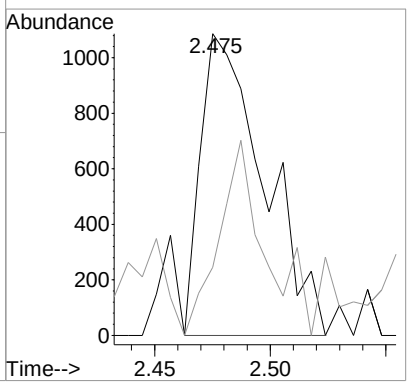


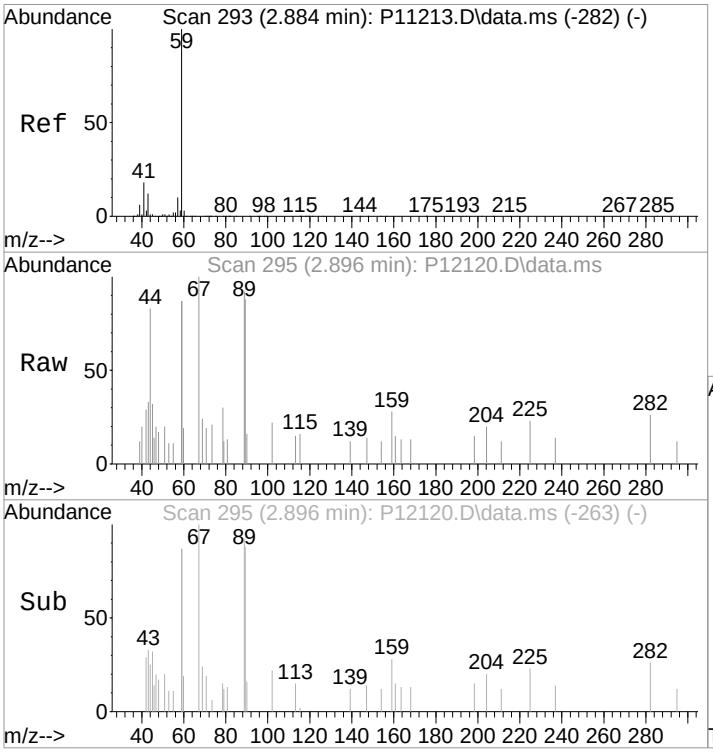


#16
2-Propanol
Concen: 3.20 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.014 min
Lab File: P12120.D
Acq: 15 Sep 2017 11:10 pm

Tgt Ion: 45 Resp: 2075

Ion	Ratio	Lower	Upper
45	100		
43	22.5	0.0	36.5

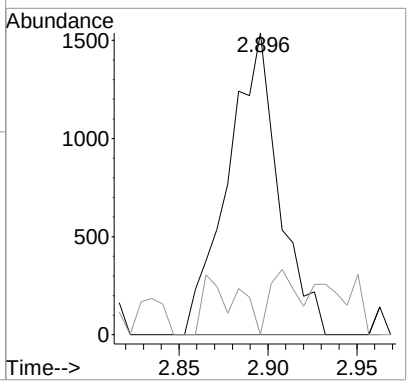


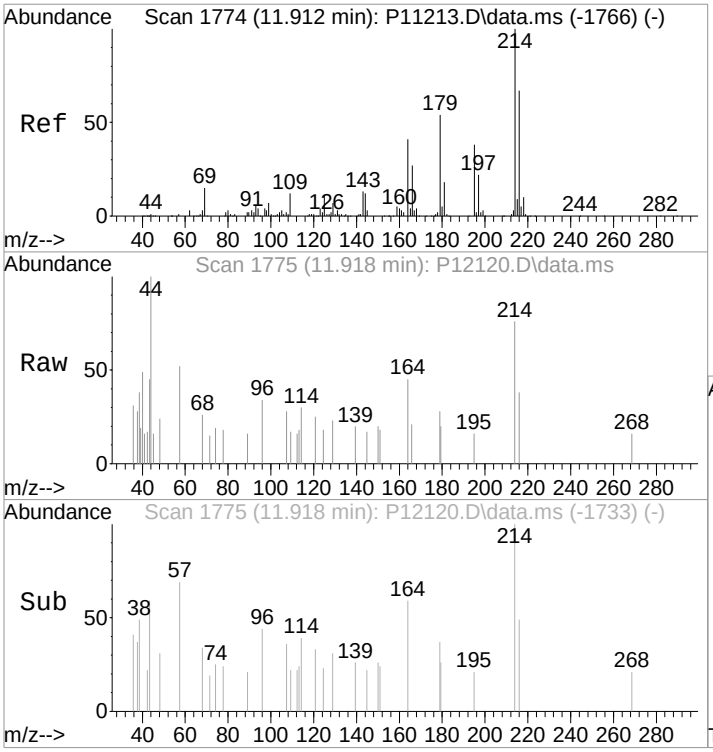


#23
TBA
Concen: 3.39 ppb
RT: 2.896 min Scan# 295
Delta R.T. 0.010 min
Lab File: P12120.D
Acq: 15 Sep 2017 11:10 pm

Tgt Ion: 59 Resp: 3058

Ion	Ratio	Lower	Upper
59	100		
41	0.0	0.0	38.3

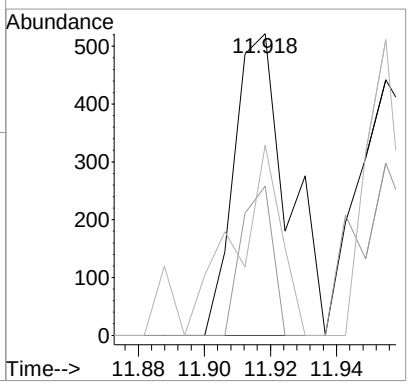


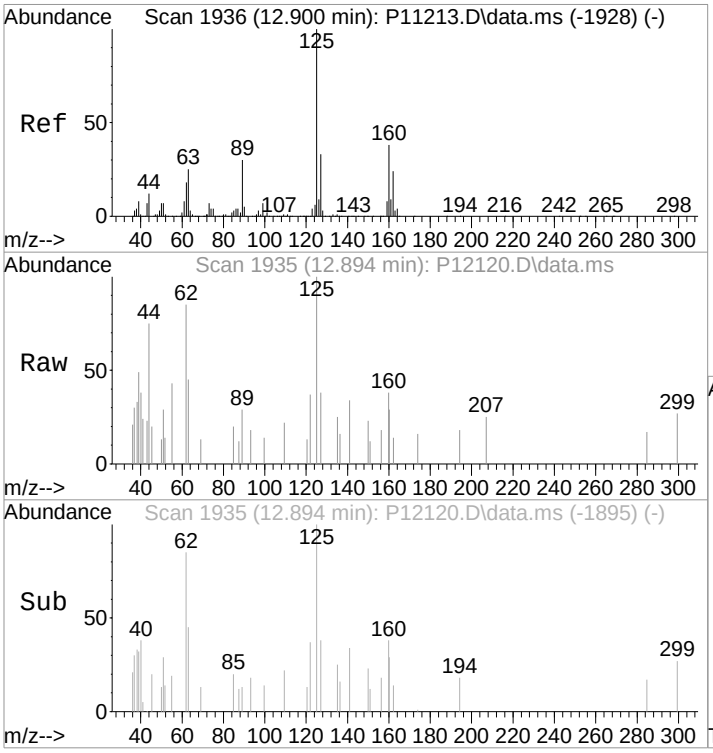


#107
2,4-DCBTF
Concen: 0.24 ppb
RT: 11.918 min Scan# 1775
Delta R.T. 0.005 min
Lab File: P12120.D
Acq: 15 Sep 2017 11:10 pm

Tgt Ion:214 Resp: 589

Ion	Ratio	Lower	Upper
214	100		
216	49.4	53.4	80.0#
179	63.0	43.4	65.2

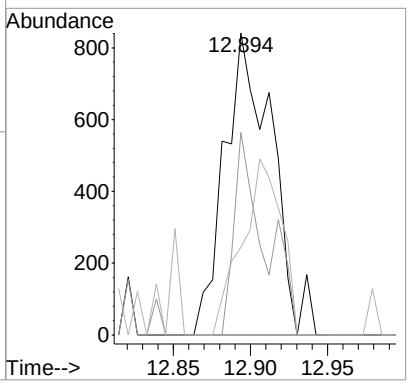




#112
Trielution Dichlorotoluene
Concen: 0.30 ppb
RT: 12.894 min Scan# 1935
Delta R.T. -0.009 min
Lab File: P12120.D
Acq: 15 Sep 2017 11:10 pm

Tgt Ion:125 Resp: 1806

Ion	Ratio	Lower	Upper
125	100		
160	67.0	30.6	46.0#
89	29.0	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12127.D
Acq On : 16 Sep 2017 1:44 am
Operator : K.Ruest
Sample : R1708647-007|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 18 14:32:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

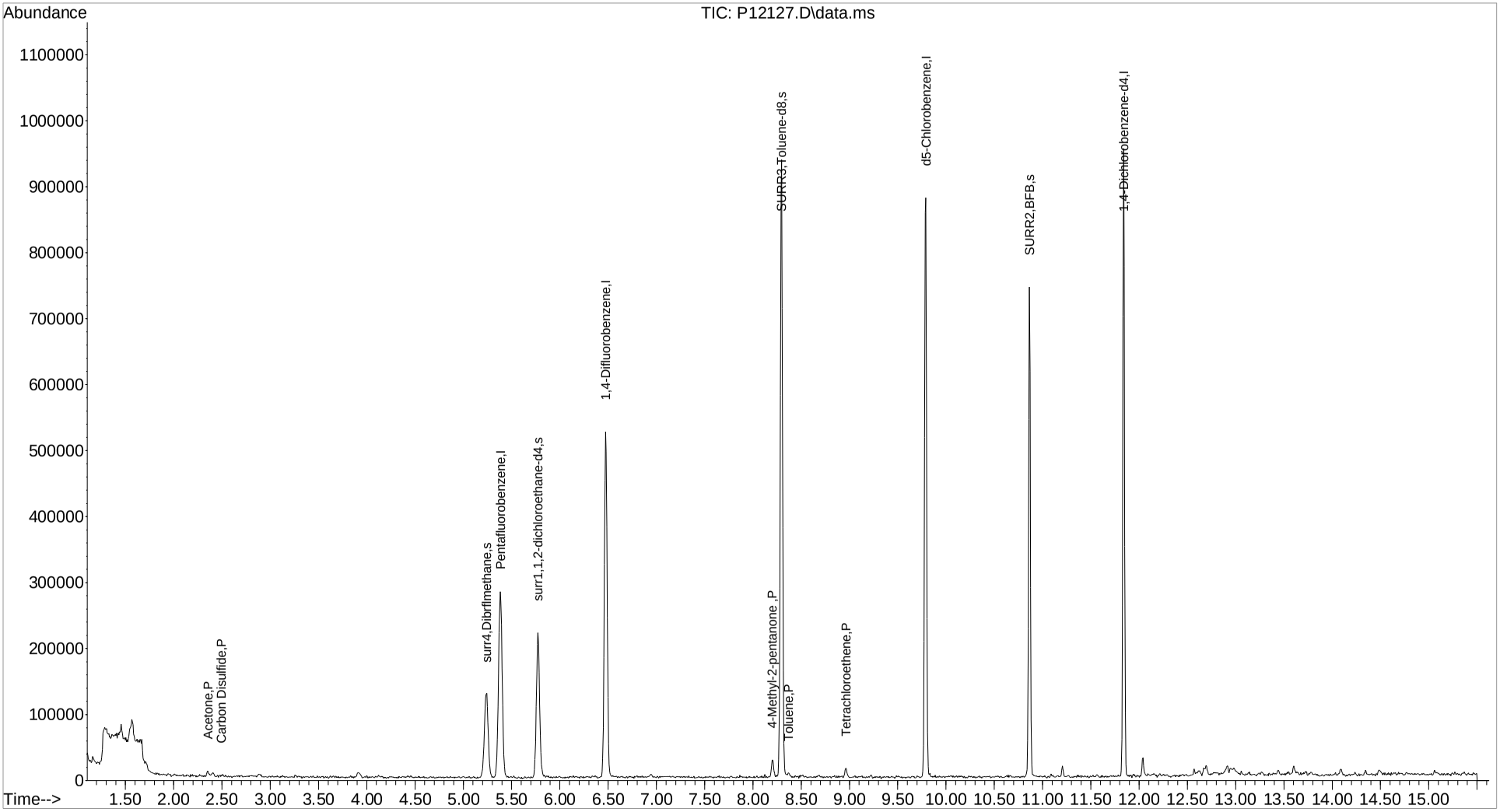
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	252049	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	419290	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	372840	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	177246	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	111940	47.87	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.74%				
48) surr1,1,2-dichloroetha...	5.773	65	168704	45.26	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.52%				
65) SURR3,Toluene-d8	8.297	98	535734	49.58	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.16%				
70) SURR2,BFB	10.864	95	200558	47.21	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.42%				
Target Compounds							Qvalue
15) Acetone	2.353	43	8536	2.78	ppb		85
18) Carbon Disulfide	2.493	76	1752	0.24	ppb		82
64) 4-Methyl-2-pentanone	8.200	43	17989	2.54	ppb		82
66) Toluene	8.370	91	3138	0.23	ppb	#	63
72) Tetrachloroethene	8.962	164	2445	1.07	ppb	#	90

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

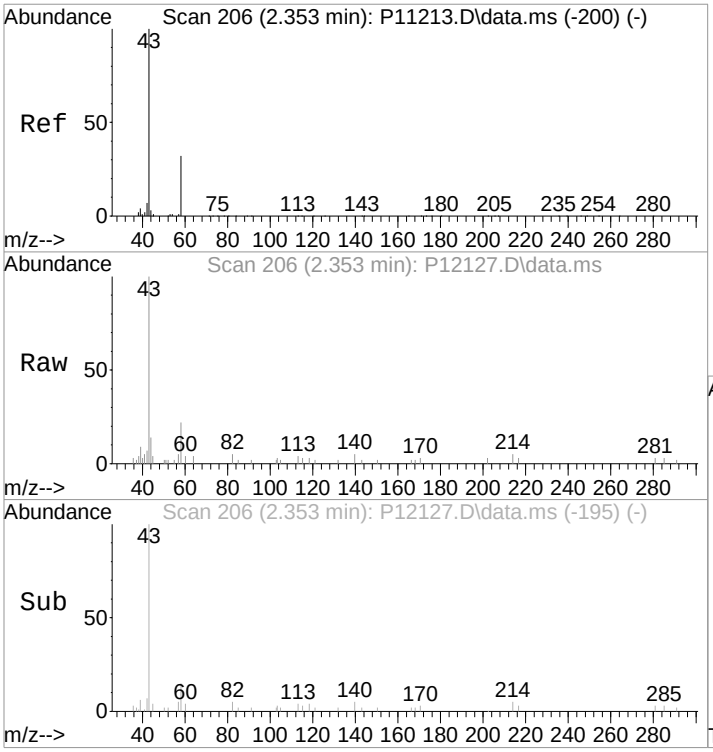
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12127.D
Acq On : 16 Sep 2017 1:44 am
Operator : K.Ruest
Sample : R1708647-007|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 18 14:32:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



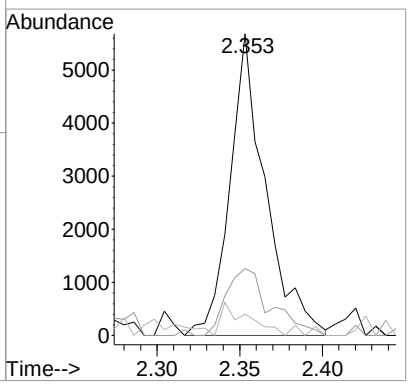
1st 09/18/17
2nd 09/20/17

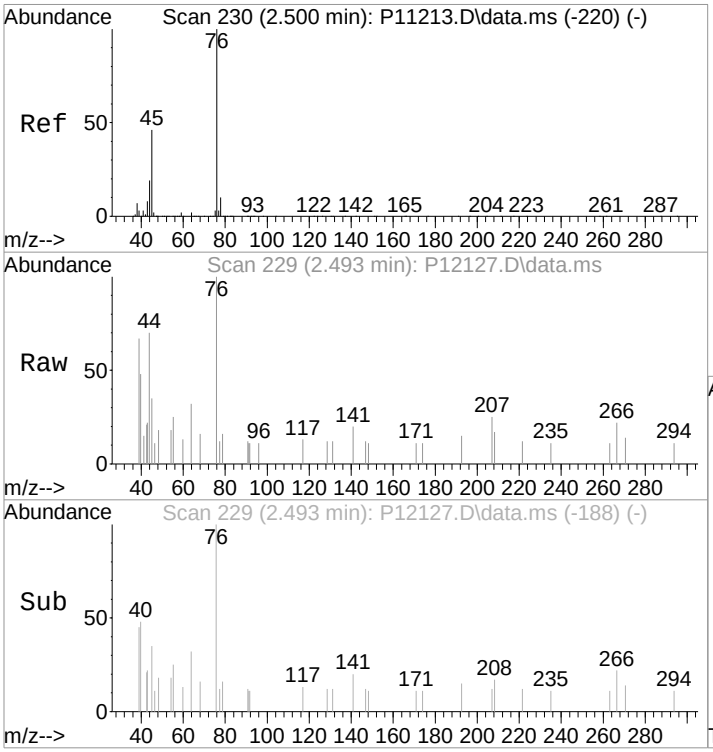


#15
Acetone
Concen: 2.78 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12127.D
Acq: 16 Sep 2017 1:44 am

Tgt Ion: 43 Resp: 8536

Ion	Ratio	Lower	Upper
43	100		
58	22.2	12.3	52.3
42	7.1	0.0	27.4

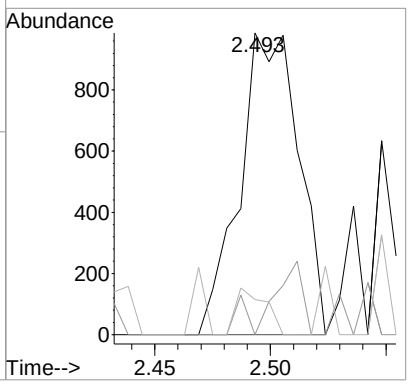


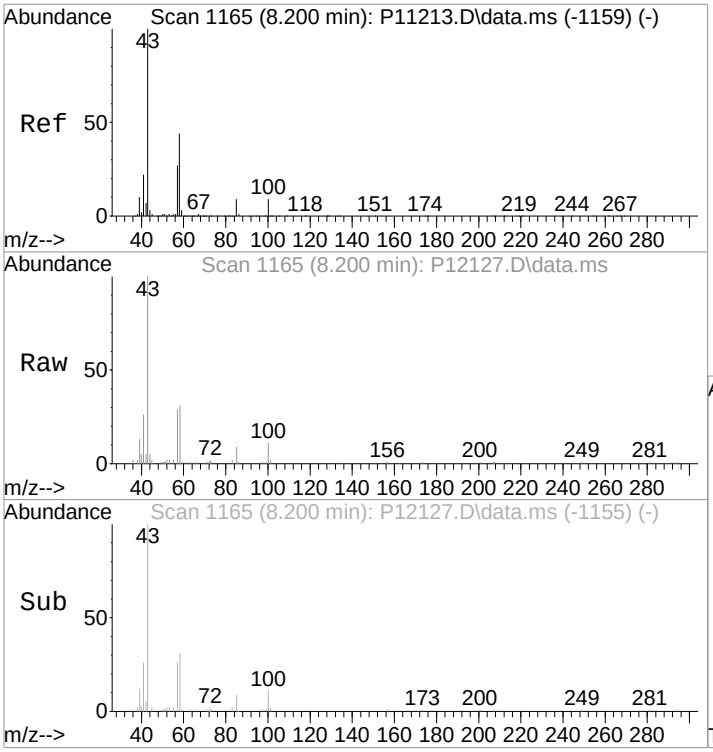


#18
Carbon Disulfide
Concen: 0.24 ppb
RT: 2.493 min Scan# 229
Delta R.T. -0.006 min
Lab File: P12127.D
Acq: 16 Sep 2017 1:44 am

Tgt Ion: 76 Resp: 1752

Ion	Ratio	Lower	Upper
76	100		
78	15.7	0.0	29.8
77	11.7	0.0	22.6

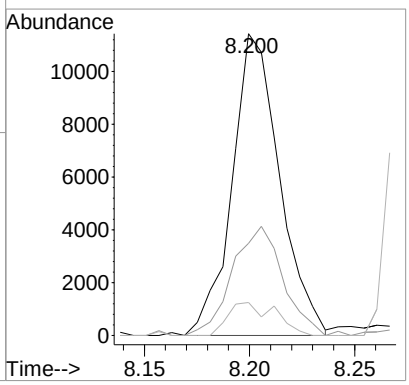


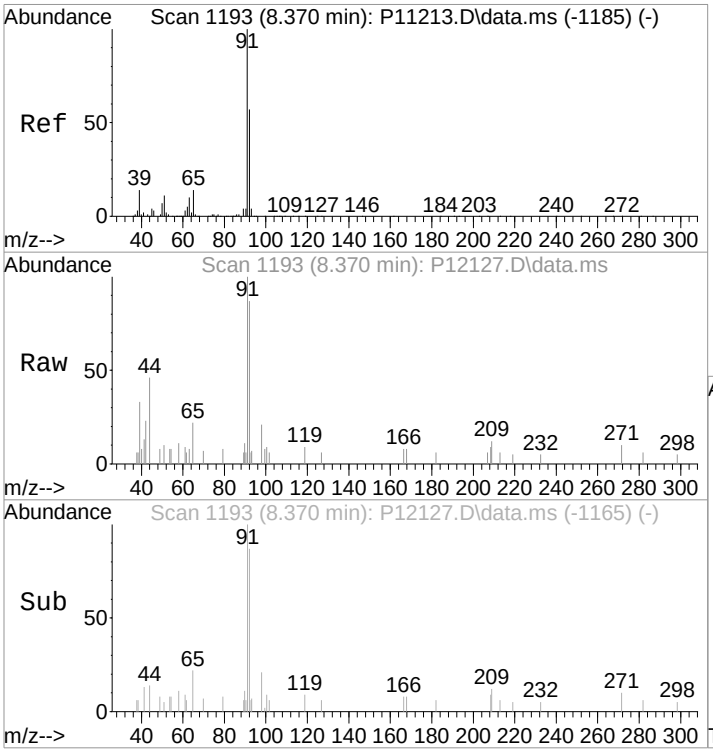


#64
4-Methyl-2-pentanone
Concen: 2.54 ppb
RT: 8.200 min Scan# 1165
Delta R.T. -0.002 min
Lab File: P12127.D
Acq: 16 Sep 2017 1:44 am

Tgt Ion: 43 Resp: 17989

Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.2	64.2
100	11.0	0.0	28.9

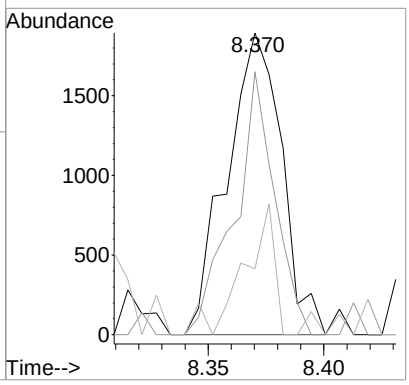


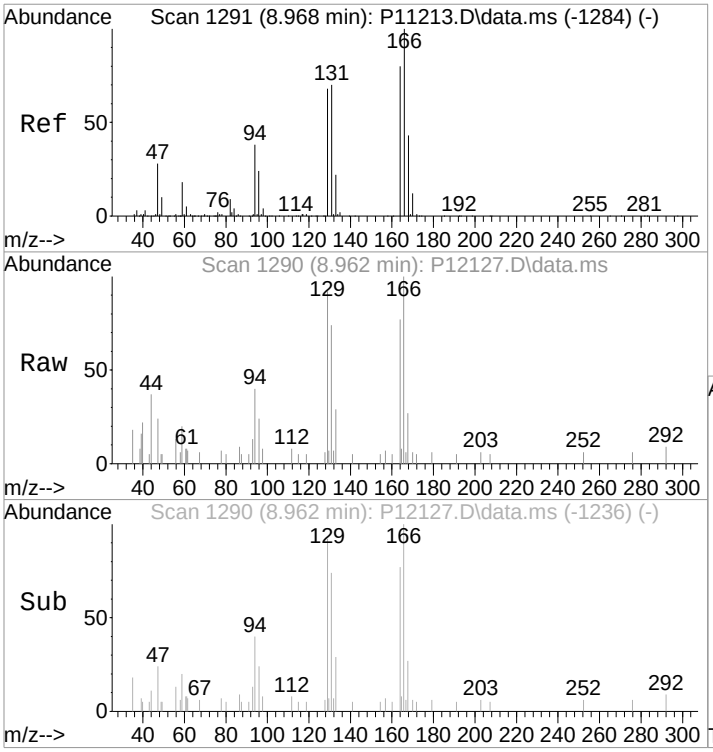


#66
Toluene
Concen: 0.23 ppb
RT: 8.370 min Scan# 1193
Delta R.T. -0.000 min
Lab File: P12127.D
Acq: 16 Sep 2017 1:44 am

Tgt Ion: 91 Resp: 3138

Ion	Ratio	Lower	Upper
91	100		
92	87.1	36.9	76.9#
65	21.8	0.0	34.1

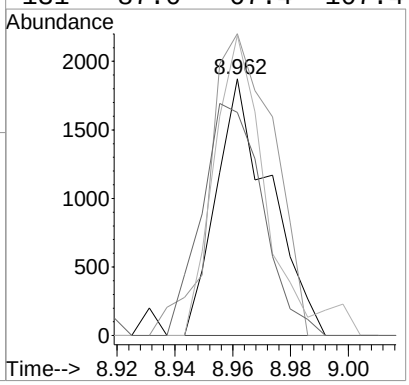




#72
Tetrachloroethene
Concen: 1.07 ppb
RT: 8.962 min Scan# 1290
Delta R.T. -0.000 min
Lab File: P12127.D
Acq: 16 Sep 2017 1:44 am

Tgt Ion:164 Resp: 2445

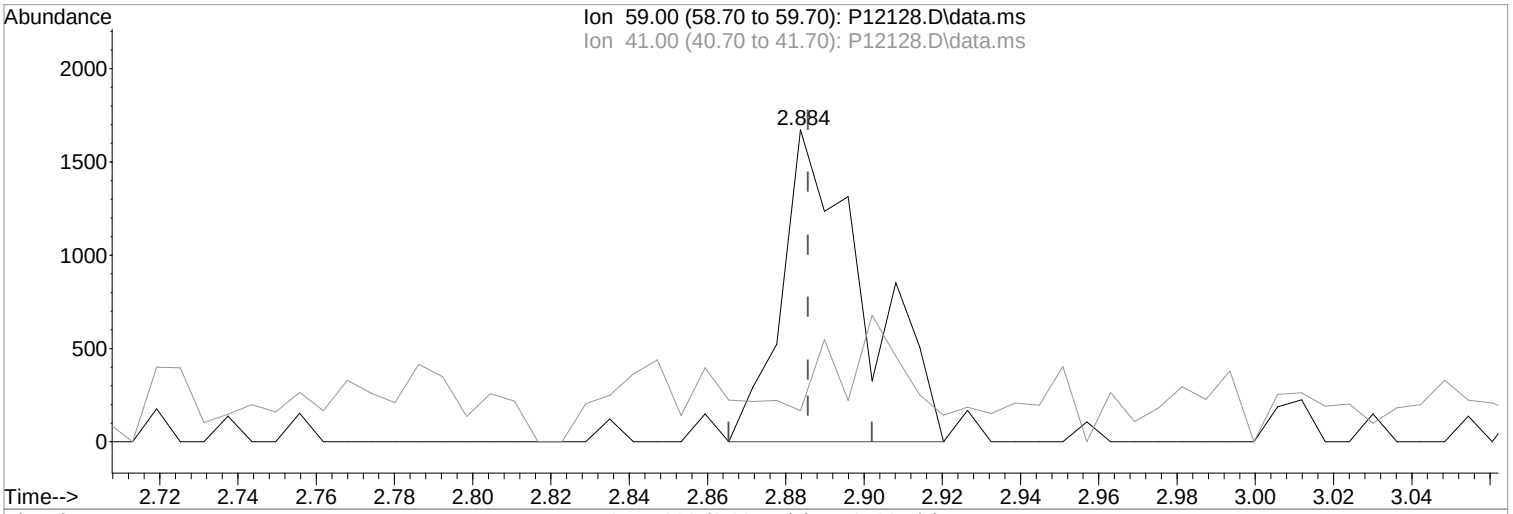
Ion	Ratio	Lower	Upper
164	100		
166	124.9	105.1	145.1
129	117.0	65.3	105.3#
131	87.0	67.4	107.4

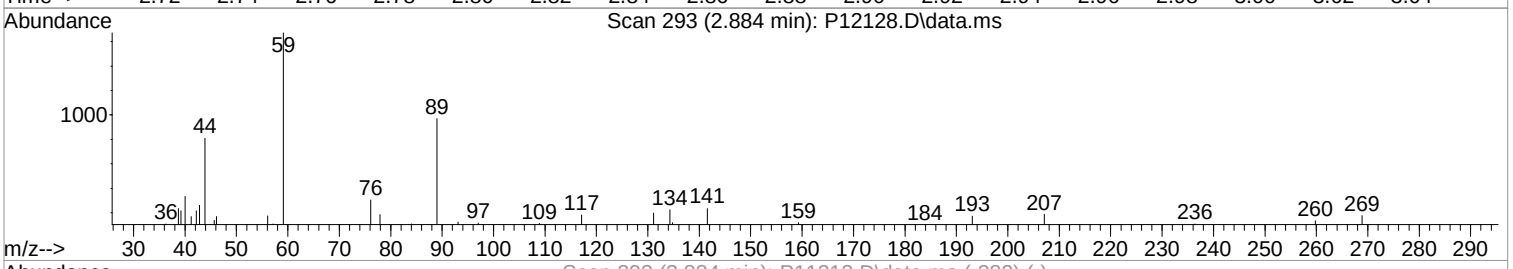


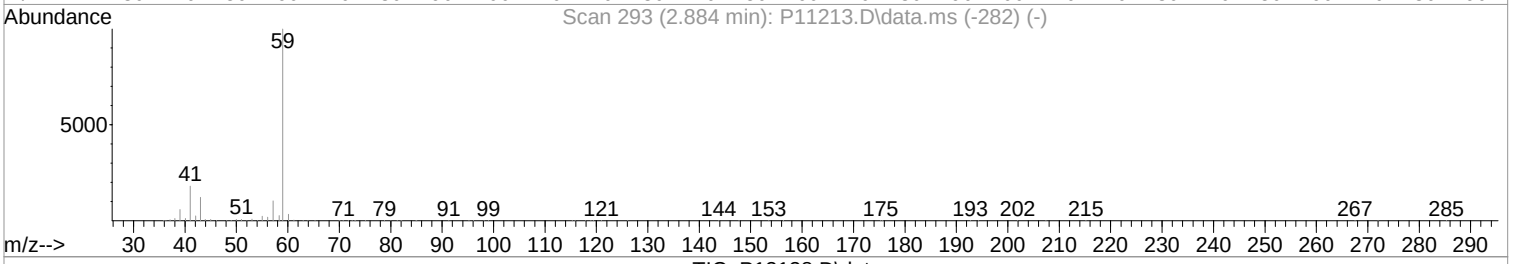
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12128.D
Acq On : 16 Sep 2017 2:06 am
Operator : K.Ruest
Sample : R1708647-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 18 09:55:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12128.D\data.ms

(23) TBA

2.884min (-0.002) 2.76 ppb m

response 2459

Ion	Exp%	Act%
59.00	100	100
41.00	18.30	9.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

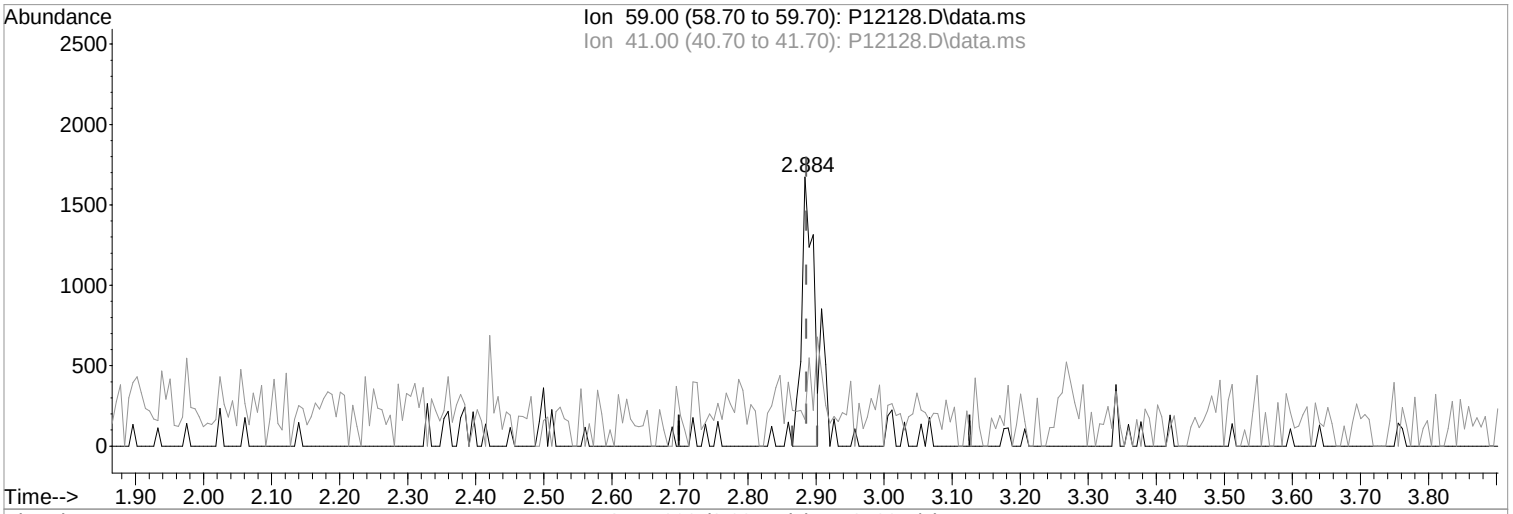
Split Peak

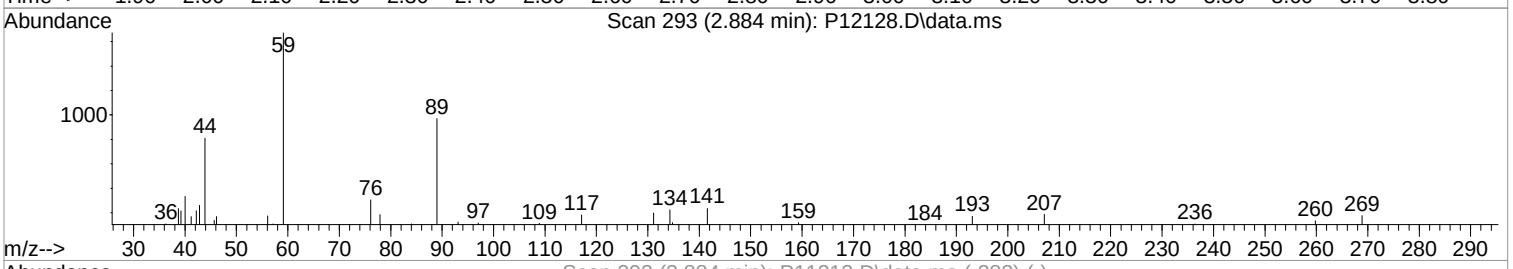
09/18/17

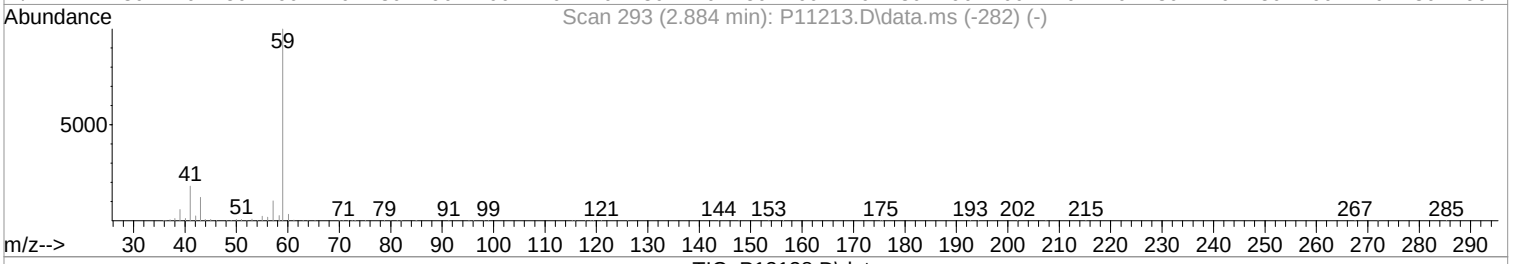
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12128.D
Acq On : 16 Sep 2017 2:06 am
Operator : K.Ruest
Sample : R1708647-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 18 09:55:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12128.D\data.ms

(23) TBA

2.884min (-0.002) 2.21 ppb

response 1963

Ion	Exp%	Act%
59.00	100	100
41.00	18.30	9.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

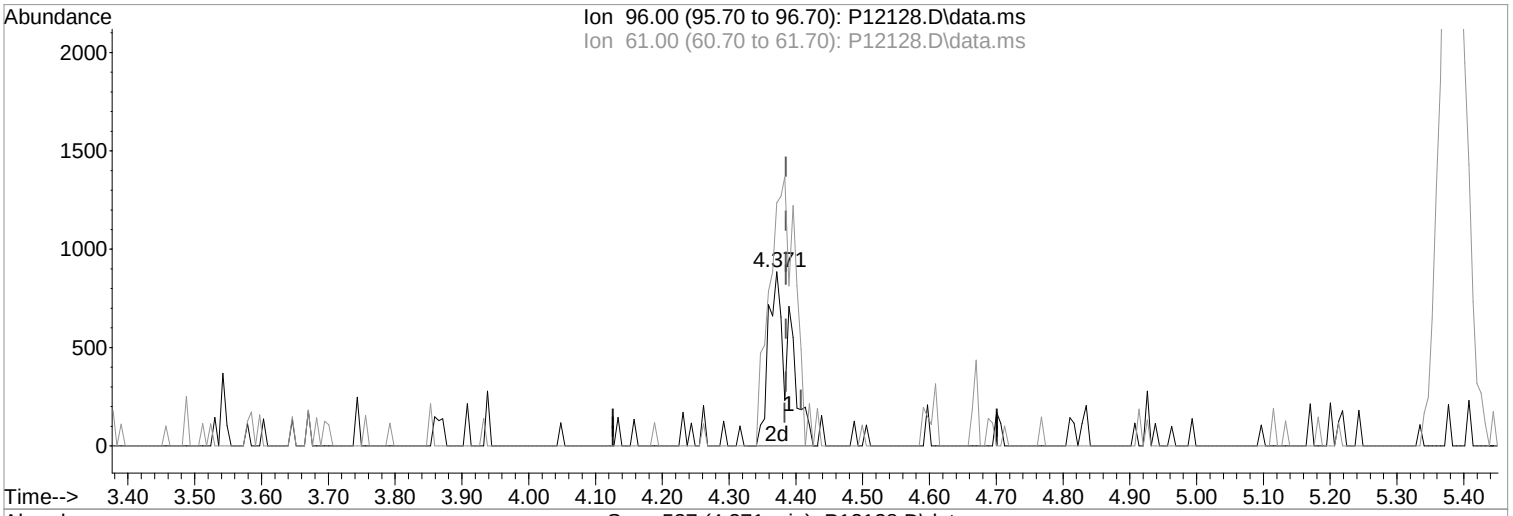
Before

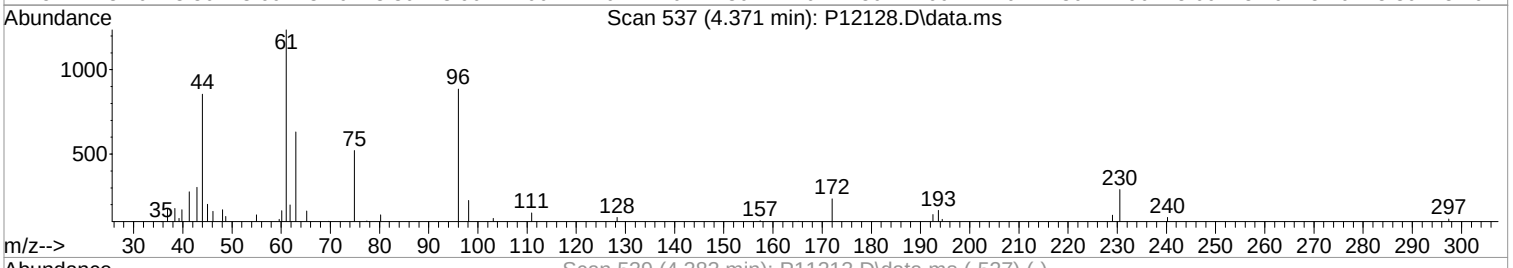
09/18/17

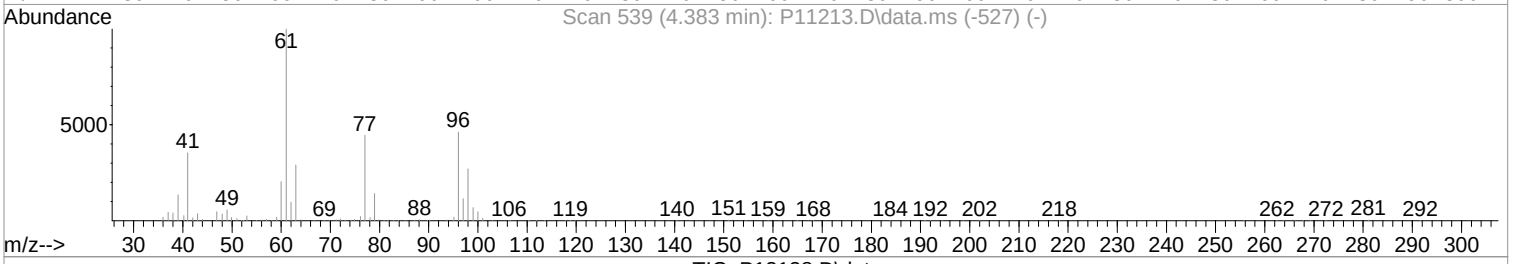
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12128.D
Acq On : 16 Sep 2017 2:06 am
Operator : K.Ruest
Sample : R1708647-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 18 09:55:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12128.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.371min (-0.014) 0.59 ppb m

response 1953

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	139.62#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

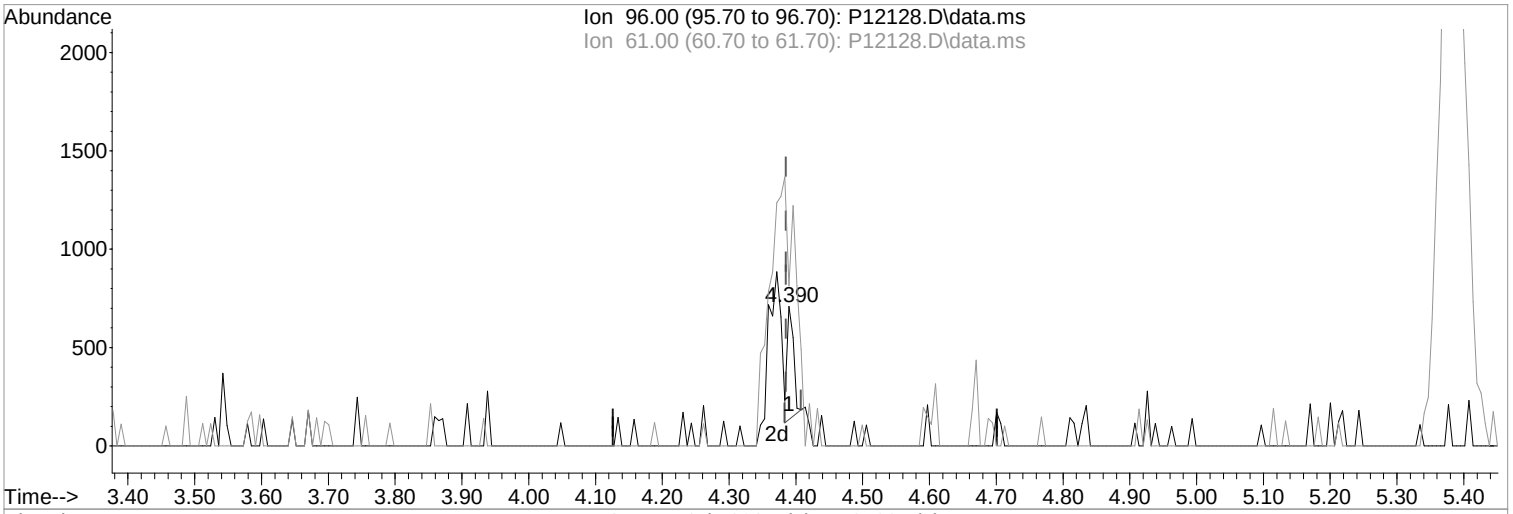
Split Peak

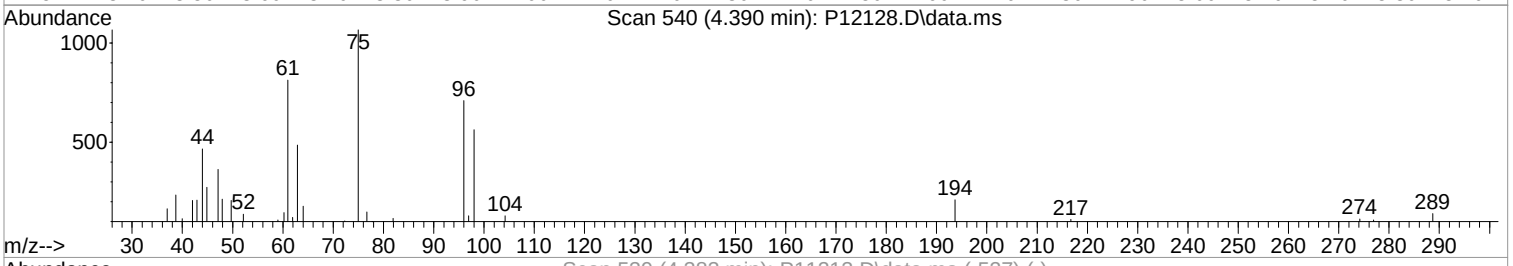
09/18/17

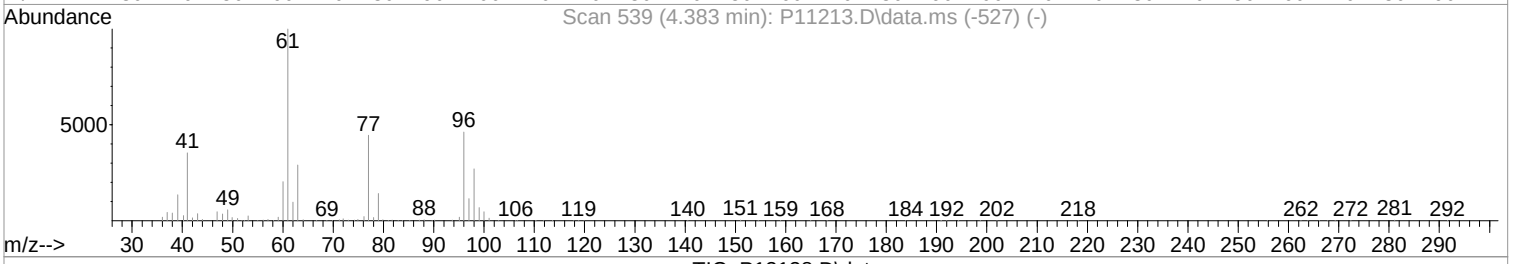
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12128.D
Acq On : 16 Sep 2017 2:06 am
Operator : K.Ruest
Sample : R1708647-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 18 09:55:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12128.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.390min (+0.005) 0.11 ppb

response 378

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	114.51#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12128.D
Acq On : 16 Sep 2017 2:06 am
Operator : K.Ruest
Sample : R1708647-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 18 14:36:06 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

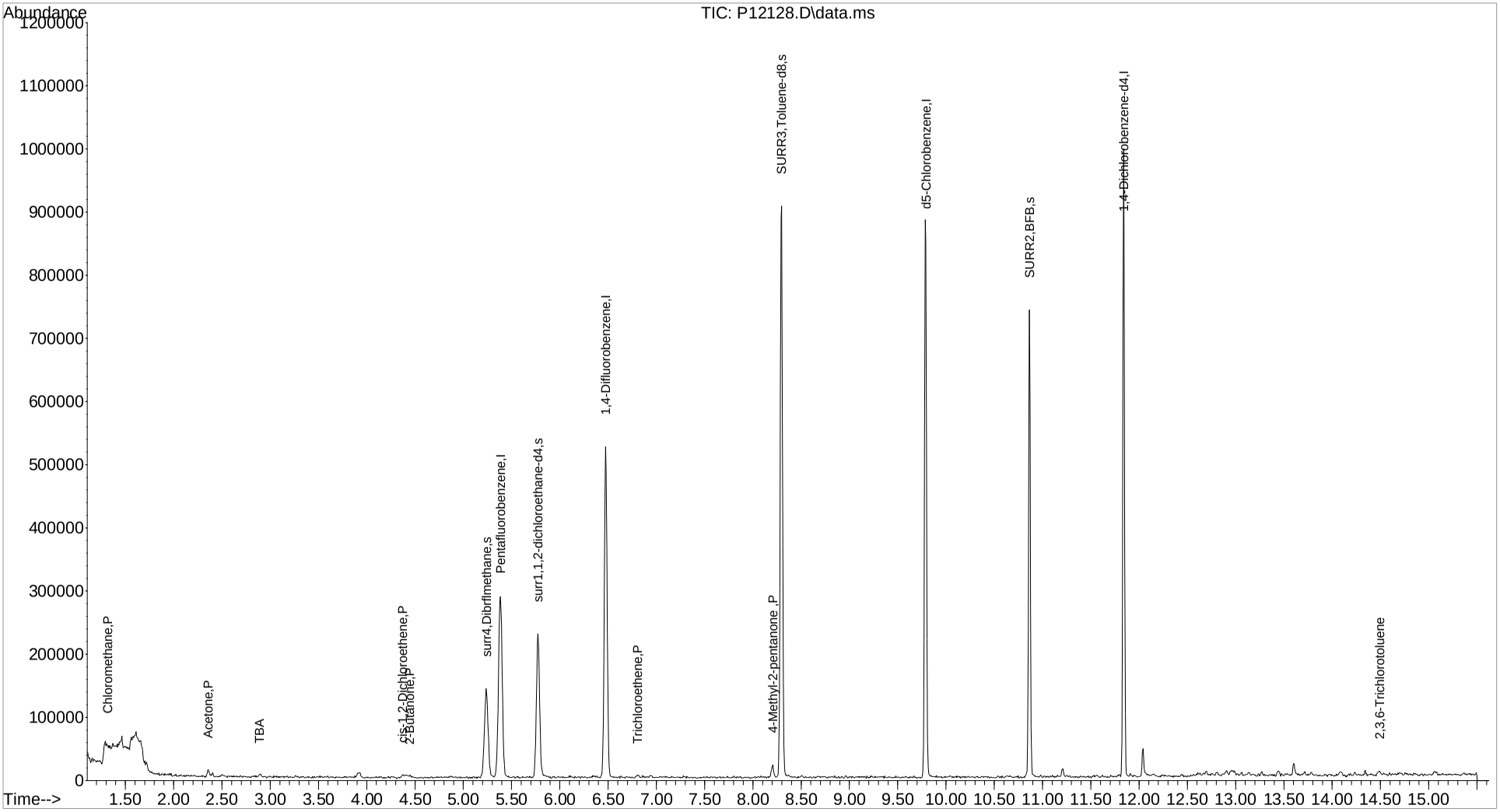
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	253072	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.475	114	416307	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	363654	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	176813	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	116023	49.97	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.94%				
48) surr1,1,2-dichloroetha...	5.773	65	179971	48.63	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.26%				
65) SURR3,Toluene-d8	8.297	98	527322	49.15	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.30%				
70) SURR2,BFB	10.864	95	198727	47.12	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.24%				
Target Compounds							Qvalue
3) Chloromethane	1.311	50	2205	0.33	ppb		68
15) Acetone	2.353	43	12253	3.97	ppb		84
23) TBA	2.884	59	2459m	2.76	ppb		
34) cis-1,2-Dichloroethene	4.371	96	1953m	0.59	ppb		
35) 2-Butanone	4.438	43	6080	1.54	ppb		91
54) Trichloroethene	6.804	130	1611	0.51	ppb	#	59
64) 4-Methyl-2-pentanone	8.206	43	13671	1.94	ppb		80
120) 2,3,6-Trichlorotoluene	14.491	159	859	0.24	ppb	#	79

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

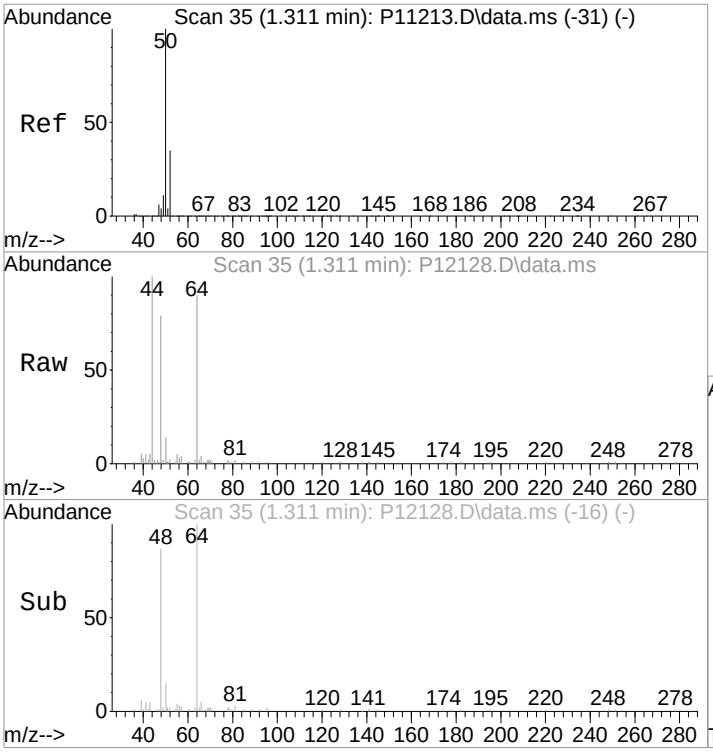
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12128.D
Acq On : 16 Sep 2017 2:06 am
Operator : K.Ruest
Sample : R1708647-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 18 14:36:06 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



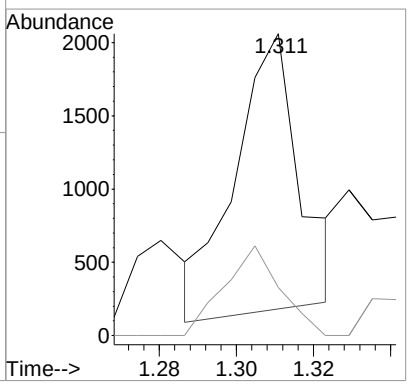
1st KR 09/18/17
2nd BA 09/20/17

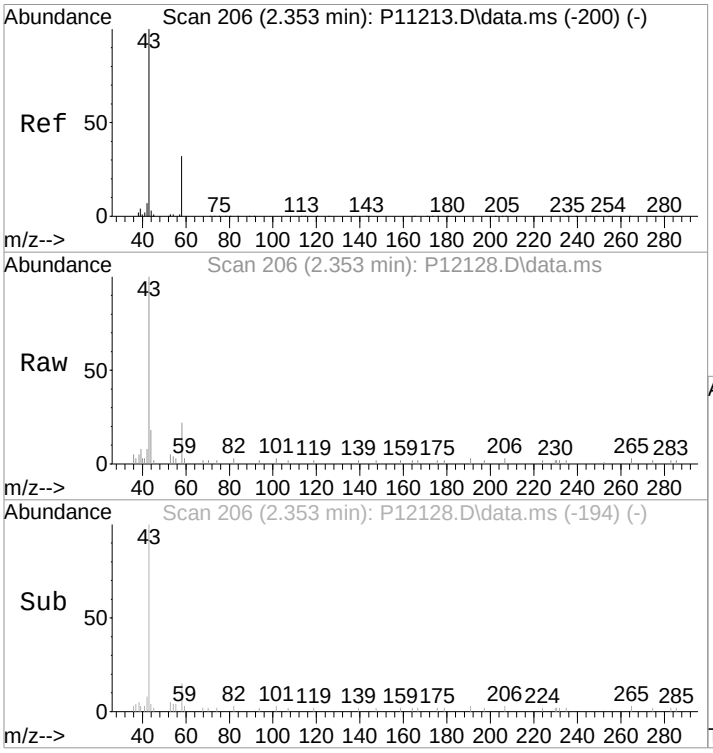


#3
Chloromethane
Concen: 0.33 ppb
RT: 1.311 min Scan# 35
Delta R.T. 0.002 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion: 50 Resp: 2205

Ion	Ratio	Lower	Upper
50	100		
52	16.0	14.5	54.5

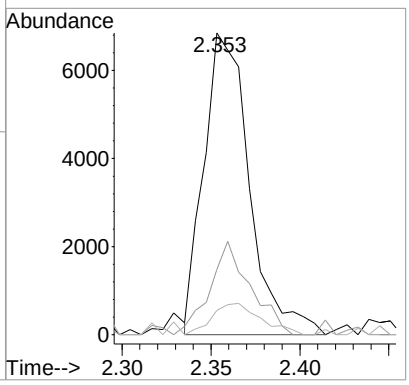


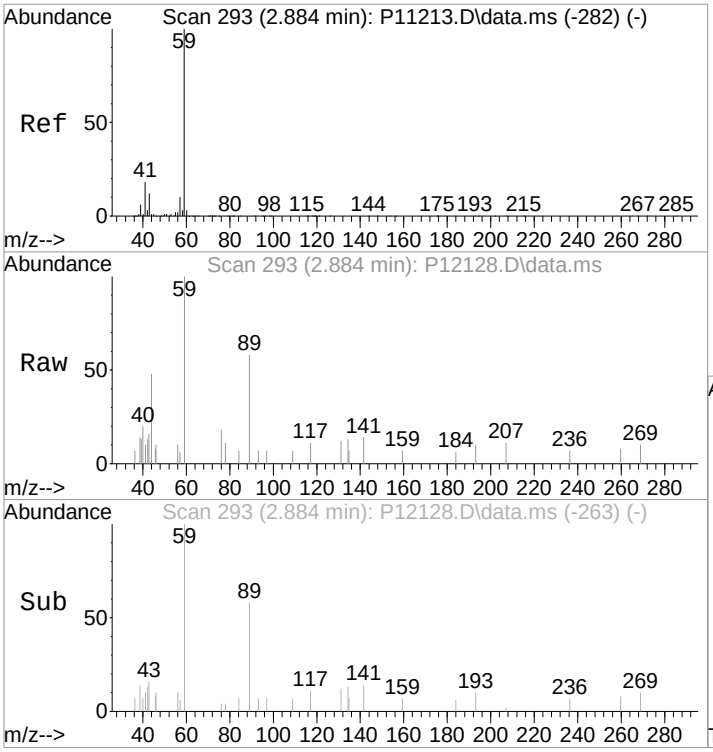


#15
Acetone
Concen: 3.97 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion: 43 Resp: 12253

Ion	Ratio	Lower	Upper
43	100		
58	21.6	12.3	52.3
42	8.1	0.0	27.4

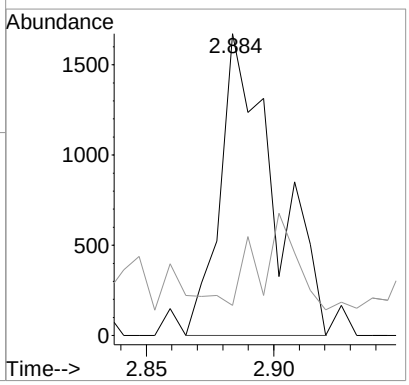


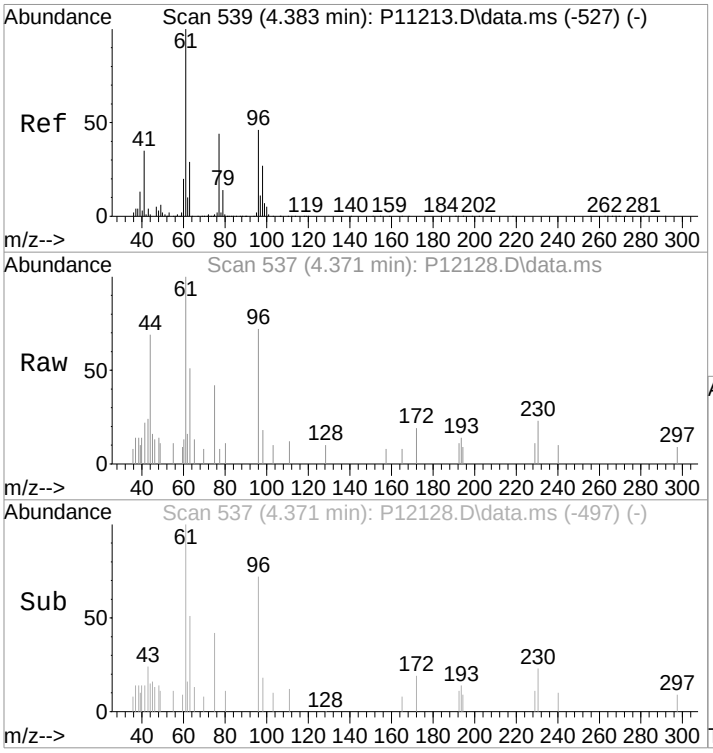


#23
TBA
Concen: 2.76 ppb m
RT: 2.884 min Scan# 293
Delta R.T. -0.002 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion: 59 Resp: 2459

Ion	Ratio	Lower	Upper
59	100		
41	10.0	0.0	38.3

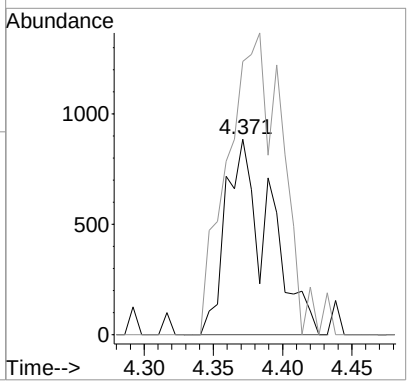


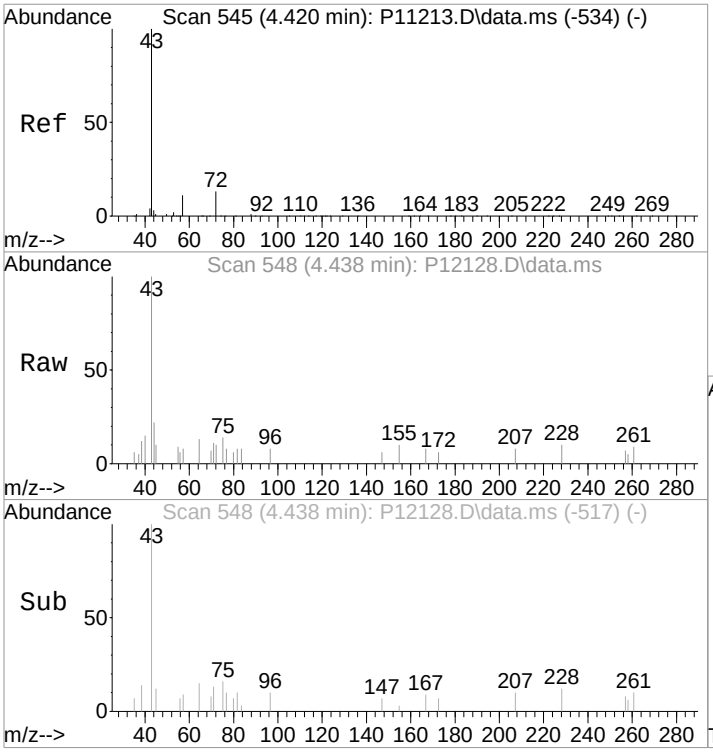


#34
cis-1,2-Dichloroethene
Concen: 0.59 ppb m
RT: 4.371 min Scan# 537
Delta R.T. -0.014 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion: 96 Resp: 1953

Ion	Ratio	Lower	Upper
96	100		
61	139.6	197.5	237.5#

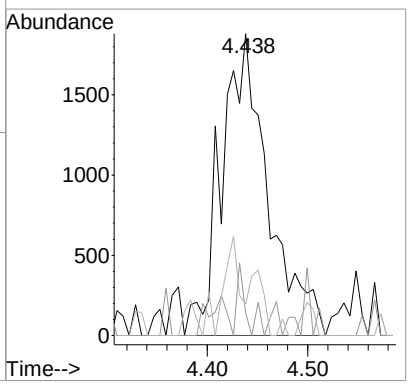


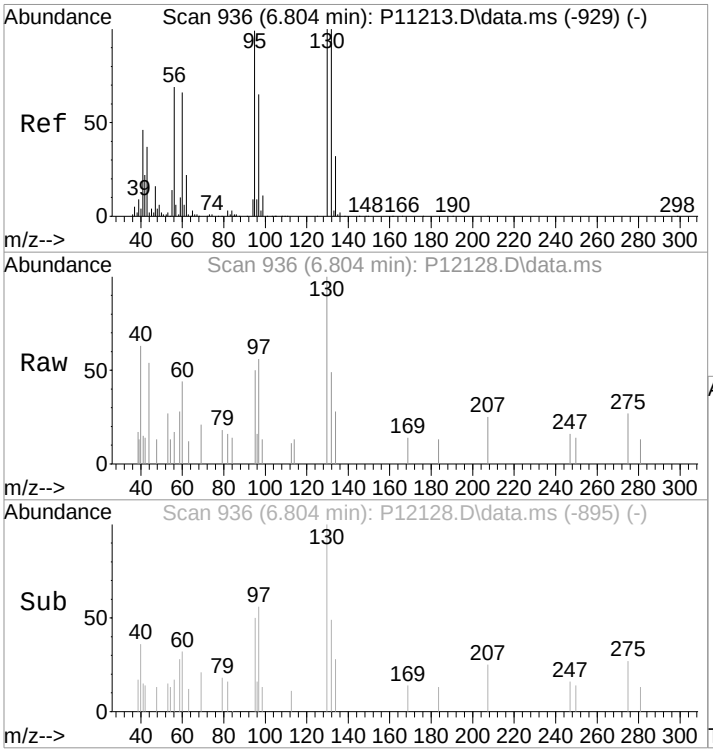


#35
2-Butanone
Concen: 1.54 ppb
RT: 4.438 min Scan# 548
Delta R.T. -0.035 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion: 43 Resp: 6080

Ion	Ratio	Lower	Upper
43	100		
57	7.6	0.0	31.5
72	10.4	0.0	33.7

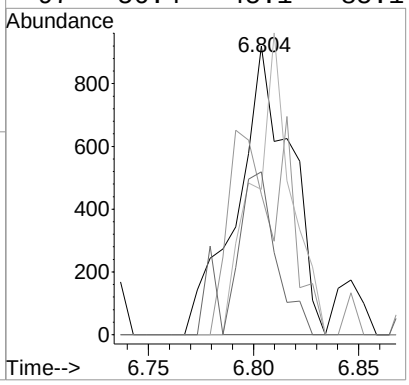


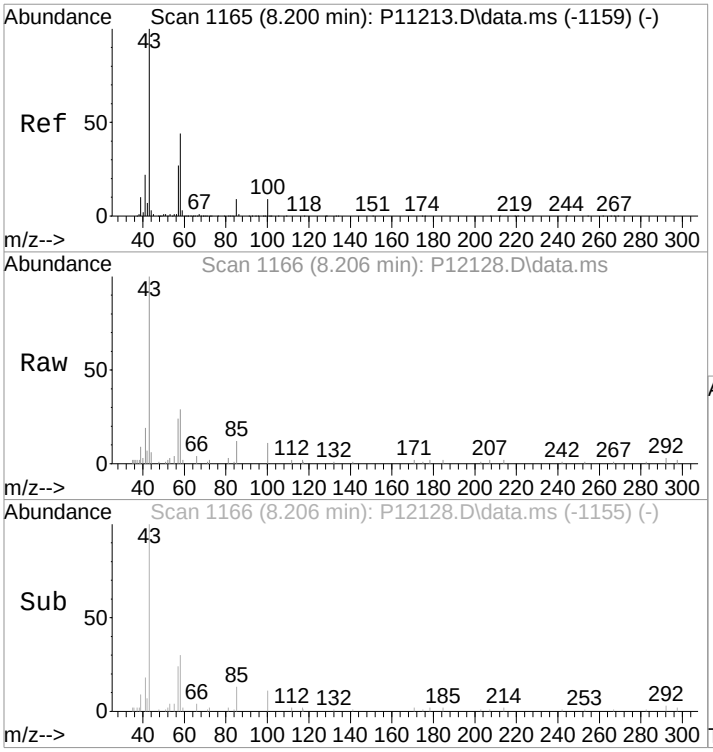


#54
Trichloroethene
Concen: 0.51 ppb
RT: 6.804 min Scan# 936
Delta R.T. 0.000 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion:130 Resp: 1611

Ion	Ratio	Lower	Upper
130	100		
132	48.7	80.0	120.0#
95	50.3	79.4	119.4#
97	56.4	45.1	85.1

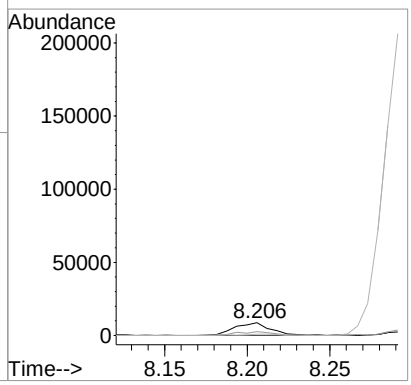


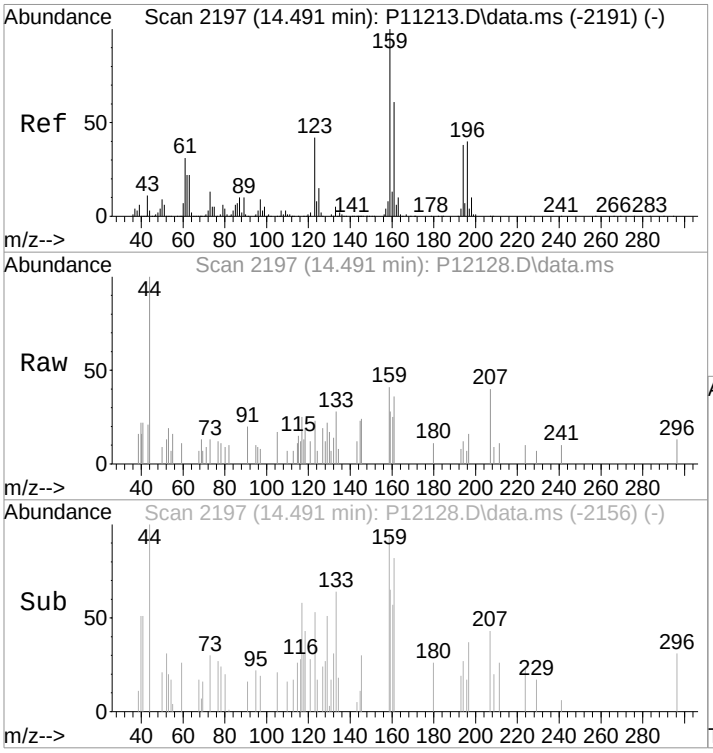


#64
4-Methyl-2-pentanone
Concen: 1.94 ppb
RT: 8.206 min Scan# 1166
Delta R.T. 0.004 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion: 43 Resp: 13671

Ion	Ratio	Lower	Upper
43	100		
58	29.3	24.2	64.2
100	11.2	0.0	28.9

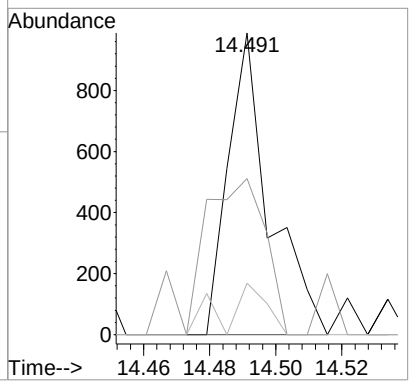




#120
2,3,6-Trichlorotoluene
Concen: 0.24 ppb
RT: 14.491 min Scan# 2197
Delta R.T. 0.000 min
Lab File: P12128.D
Acq: 16 Sep 2017 2:06 am

Tgt Ion:159 Resp: 859

Ion	Ratio	Lower	Upper
159	100		
161	51.8	49.0	73.6
194	17.1	30.2	45.4#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12129.D
Acq On : 16 Sep 2017 2:28 am
Operator : K.Ruest
Sample : R1708647-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 18 14:38:16 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

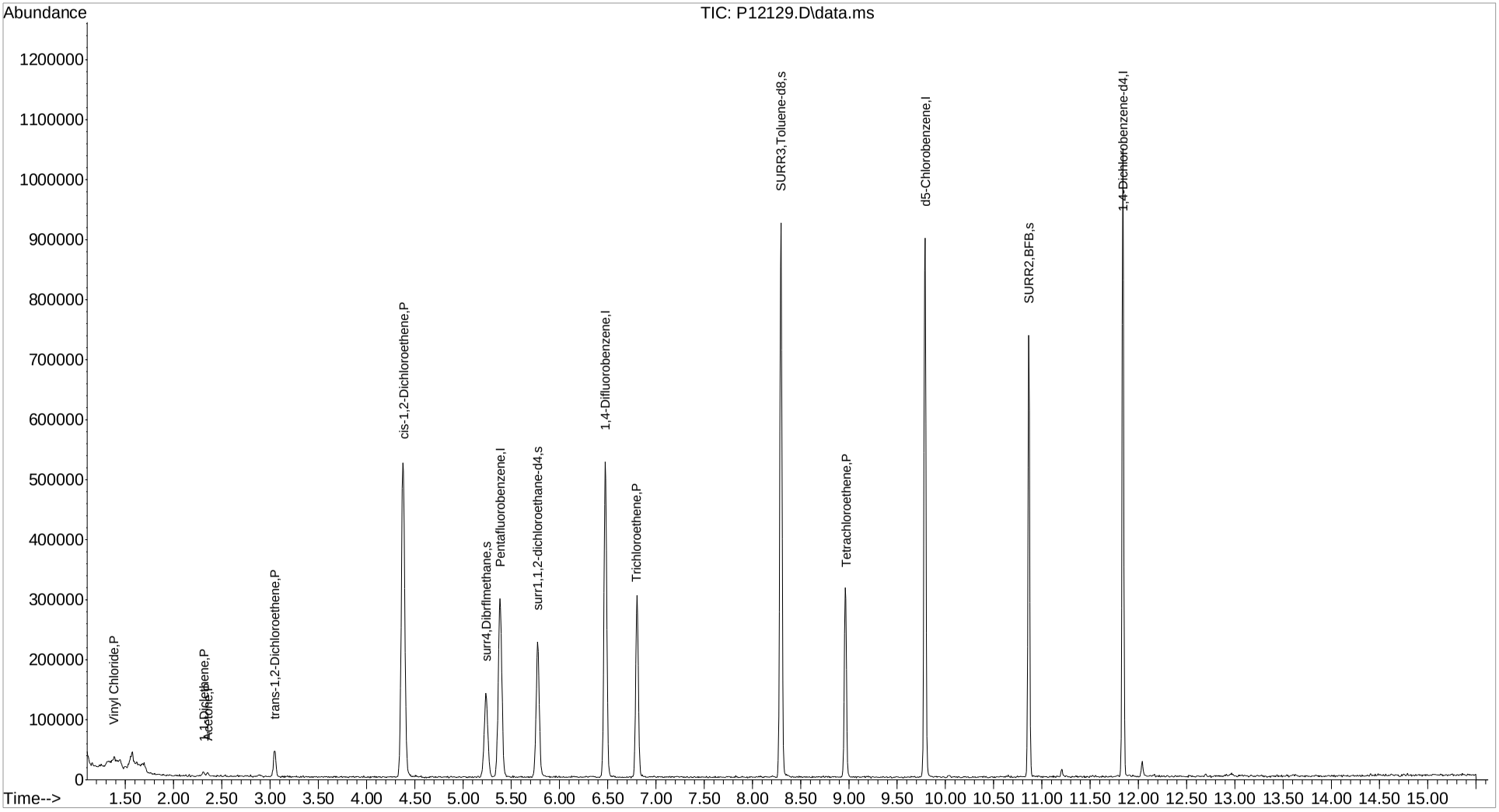
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	260878	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	427717	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	386382	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	191405	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	111669	46.82	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.64%				
48) surr1,1,2-dichloroetha...	5.773	65	166624	43.83	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 87.66%				
65) SURR3,Toluene-d8	8.297	98	526419	47.76	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 95.52%				
70) SURR2,BFB	10.864	95	196698	45.39	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.78%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.384	62	3302	0.74	ppb		89
13) 1,1-Diclethene	2.317	96	1811	0.64	ppb	#	37
15) Acetone	2.353	43	6146	1.93	ppb		98
26) trans-1,2-Dichloroethene	3.048	96	14386	4.91	ppb	#	82
34) cis-1,2-Dichloroethene	4.383	96	266351	77.53	ppb	#	64
54) Trichloroethene	6.797	130	103855	31.91	ppb		88
72) Tetrachloroethene	8.968	164	62346	26.23	ppb		94

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

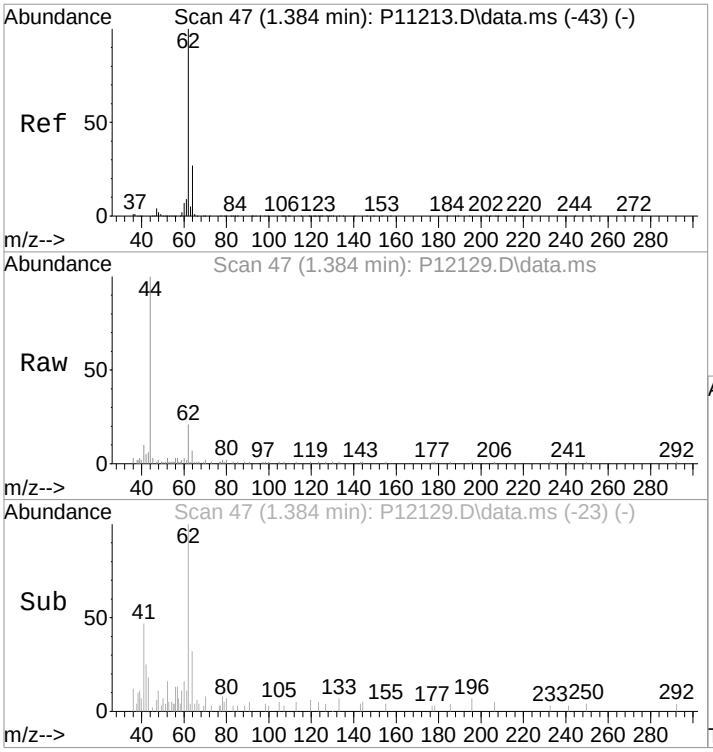
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12129.D
Acq On : 16 Sep 2017 2:28 am
Operator : K.Ruest
Sample : R1708647-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 18 14:38:16 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



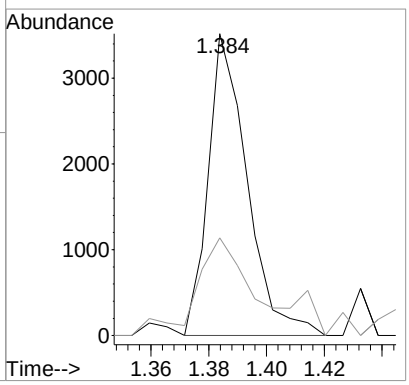
1st 09/18/17
2nd 09/20/17

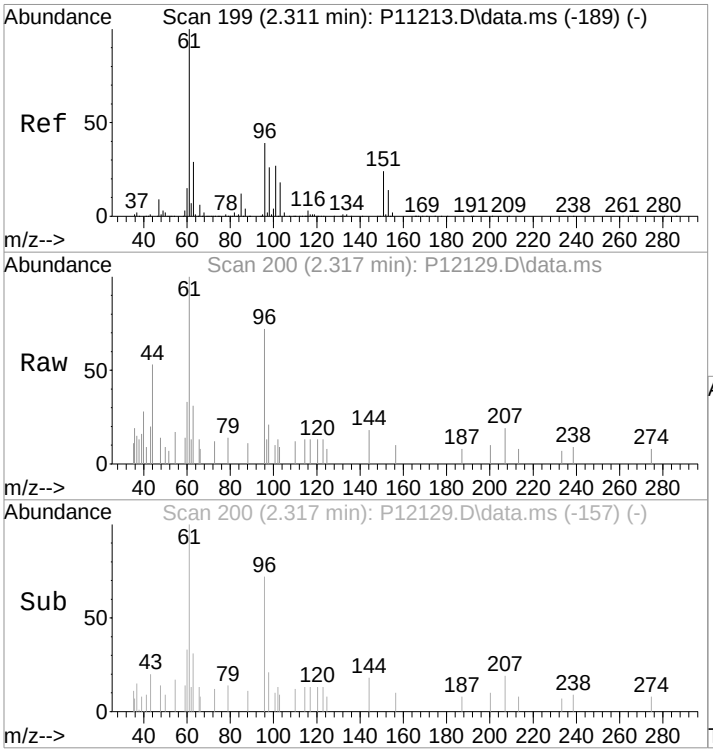


#4
Vinyl Chloride
Concen: 0.74 ppb
RT: 1.384 min Scan# 47
Delta R.T. -0.000 min
Lab File: P12129.D
Acq: 16 Sep 2017 2:28 am

Tgt Ion: 62 Resp: 3302

Ion	Ratio	Lower	Upper
62	100		
64	32.3	6.7	46.7

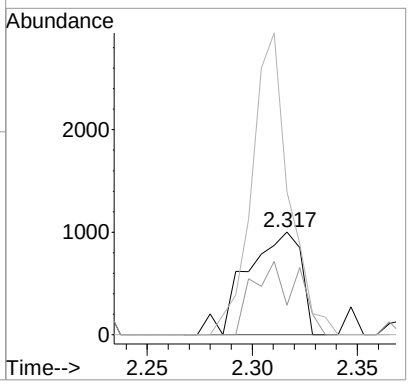


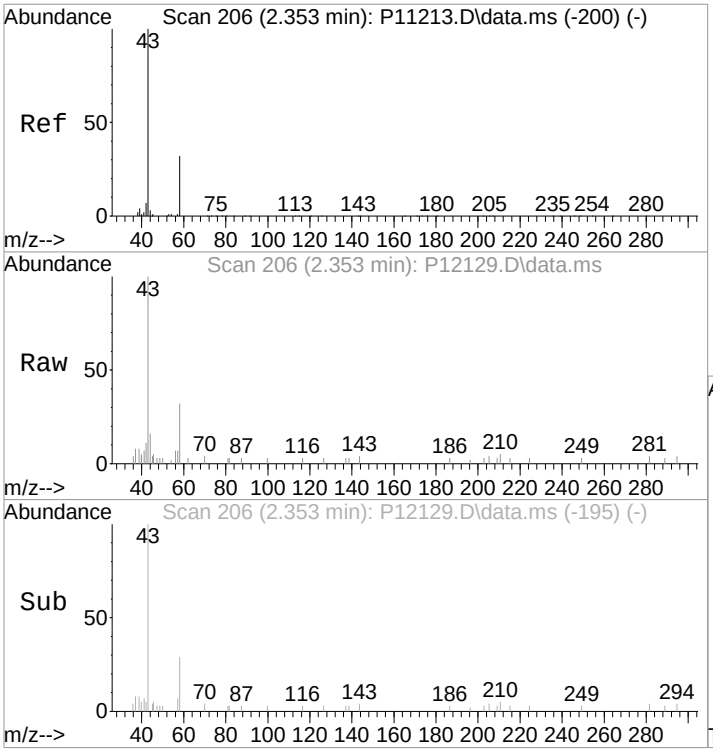


#13
1,1-Diclethene
Concen: 0.64 ppb
RT: 2.317 min Scan# 200
Delta R.T. 0.012 min
Lab File: P12129.D
Acq: 16 Sep 2017 2:28 am

Tgt Ion: 96 Resp: 1811

Ion	Ratio	Lower	Upper
96	100		
98	28.6	46.1	86.1#
61	139.2	238.0	278.0#

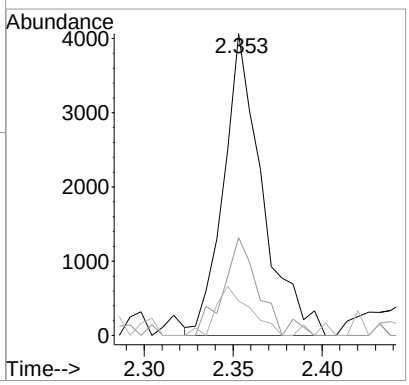


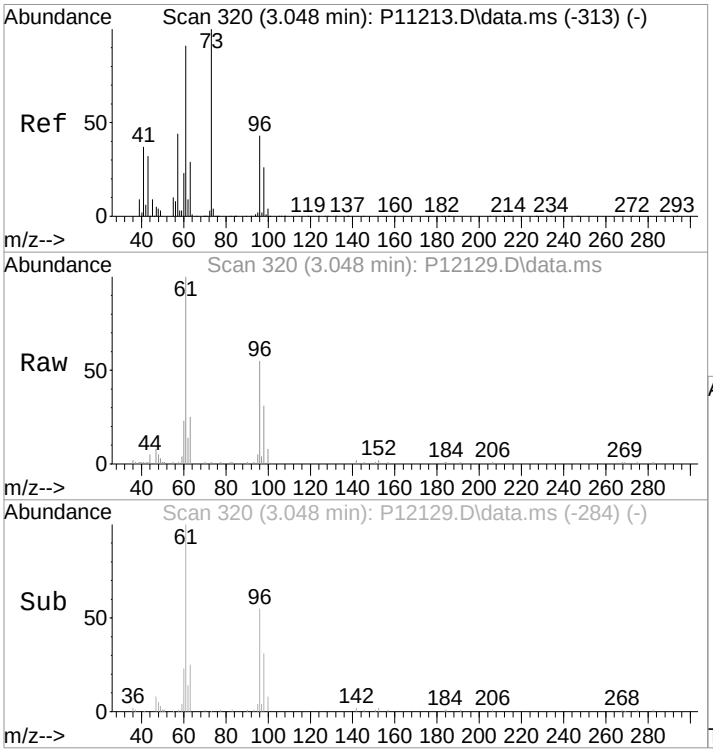


#15
Acetone
Concen: 1.93 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12129.D
Acq: 16 Sep 2017 2:28 am

Tgt Ion: 43 Resp: 6146

Ion	Ratio	Lower	Upper
43	100		
58	32.5	12.3	52.3
42	11.3	0.0	27.4

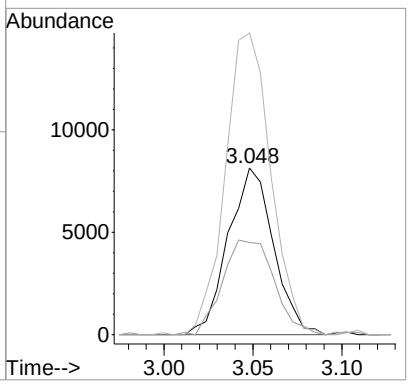


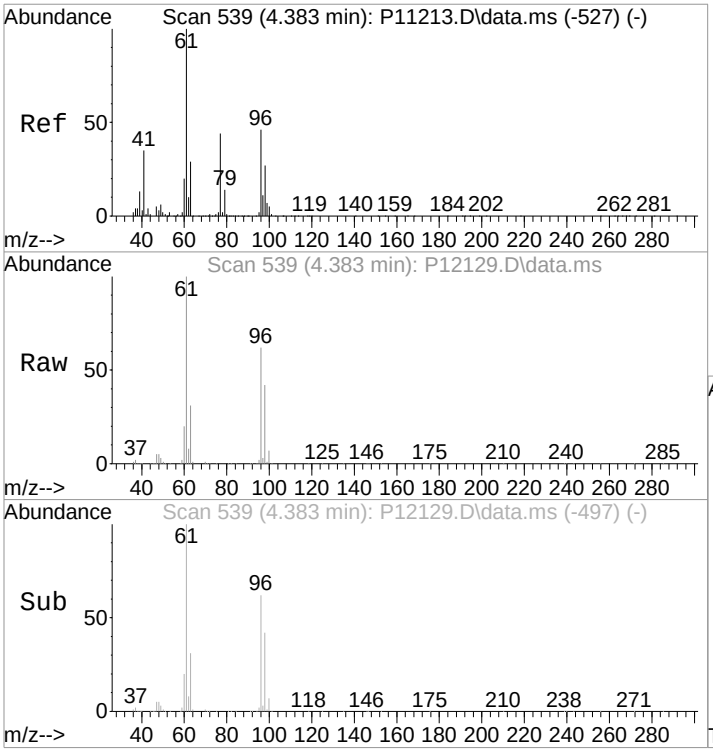


#26
trans-1,2-Dichloroethene
Concen: 4.91 ppb
RT: 3.048 min Scan# 320
Delta R.T. 0.008 min
Lab File: P12129.D
Acq: 16 Sep 2017 2:28 am

Tgt Ion: 96 Resp: 14386

Ion	Ratio	Lower	Upper
96	100		
98	55.2	41.8	81.8
61	180.9	194.1	234.1#

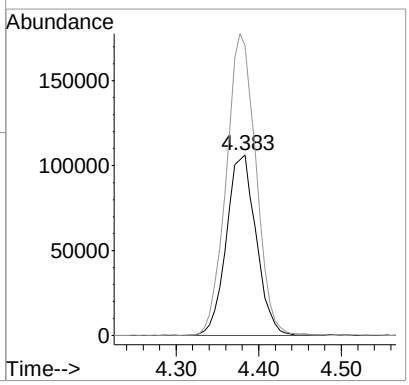


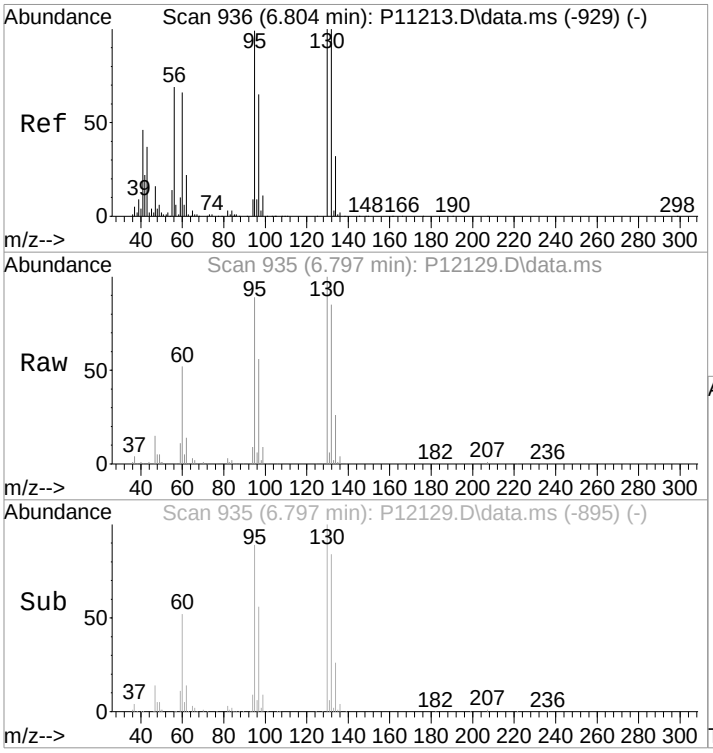


#34
cis-1,2-Dichloroethene
Concen: 77.53 ppb
RT: 4.383 min Scan# 539
Delta R.T. -0.002 min
Lab File: P12129.D
Acq: 16 Sep 2017 2:28 am

Tgt Ion: 96 Resp: 266351

Ion	Ratio	Lower	Upper
96	100		
61	160.3	197.5	237.5#

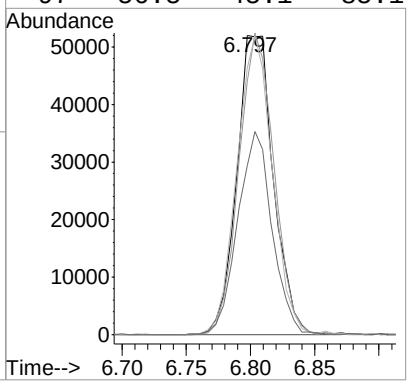


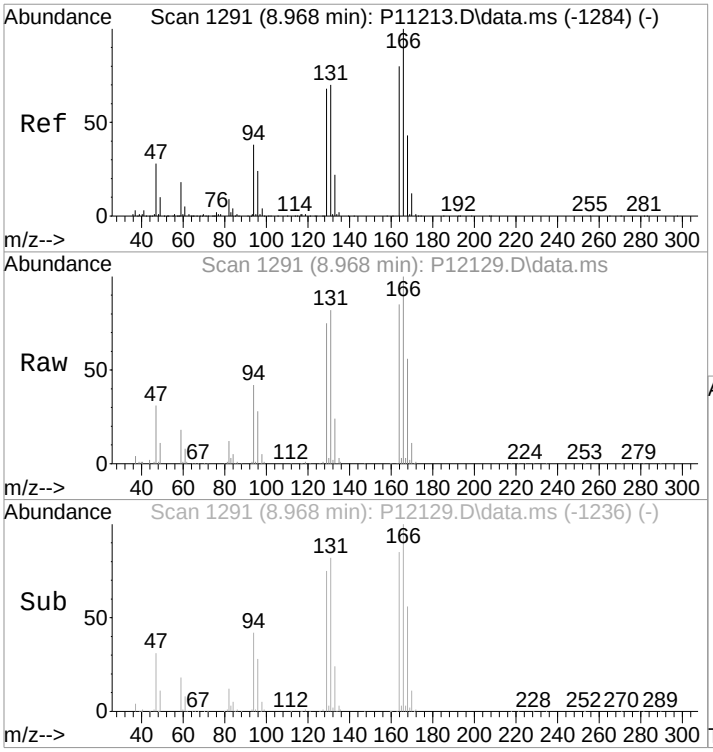


#54
Trichloroethene
Concen: 31.91 ppb
RT: 6.797 min Scan# 935
Delta R.T. -0.006 min
Lab File: P12129.D
Acq: 16 Sep 2017 2:28 am

Tgt Ion:130 Resp: 103855

Ion	Ratio	Lower	Upper
130	100		
132	84.6	80.0	120.0
95	89.1	79.4	119.4
97	56.5	45.1	85.1

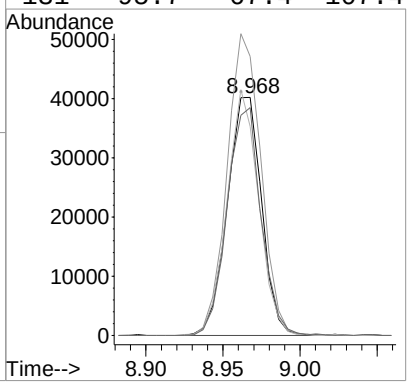




#72
Tetrachloroethene
Concen: 26.23 ppb
RT: 8.968 min Scan# 1291
Delta R.T. 0.006 min
Lab File: P12129.D
Acq: 16 Sep 2017 2:28 am

Tgt Ion:164 Resp: 62346

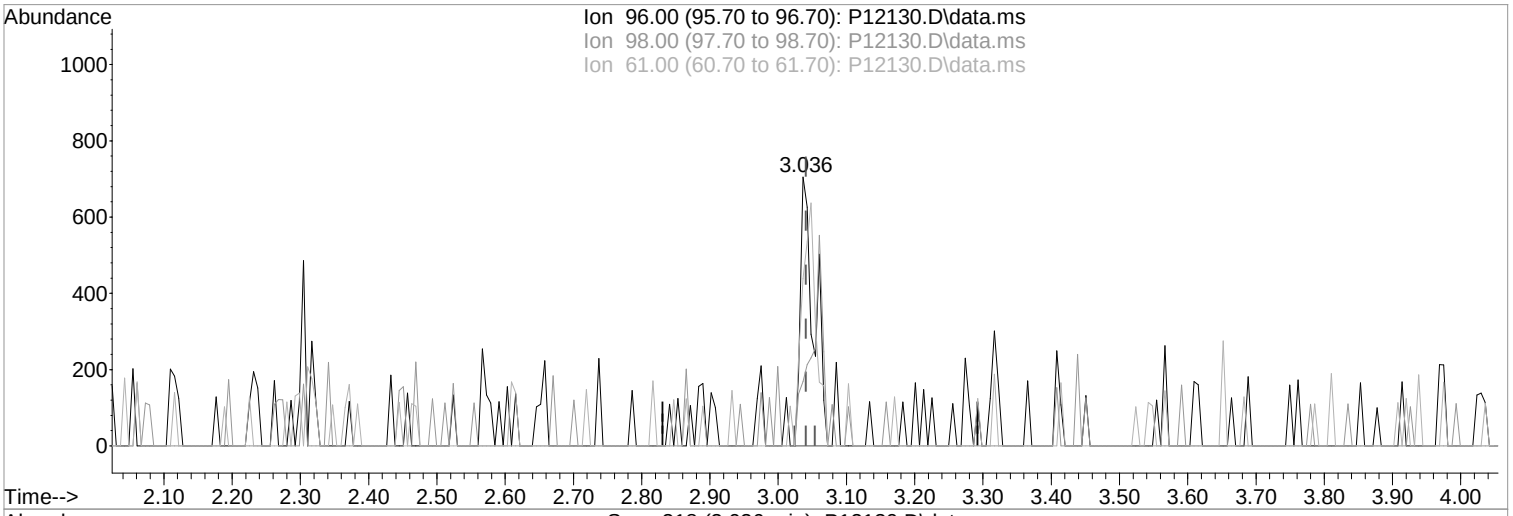
Ion	Ratio	Lower	Upper
164	100		
166	117.2	105.1	145.1
129	87.8	65.3	105.3
131	95.7	67.4	107.4

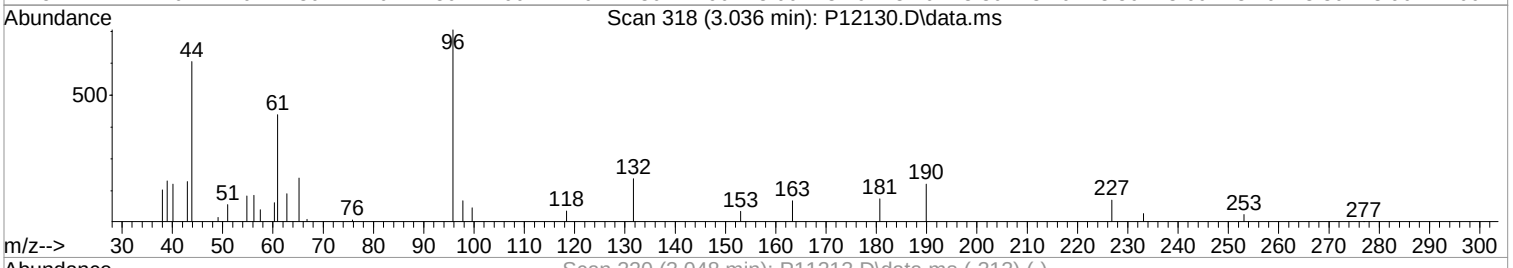


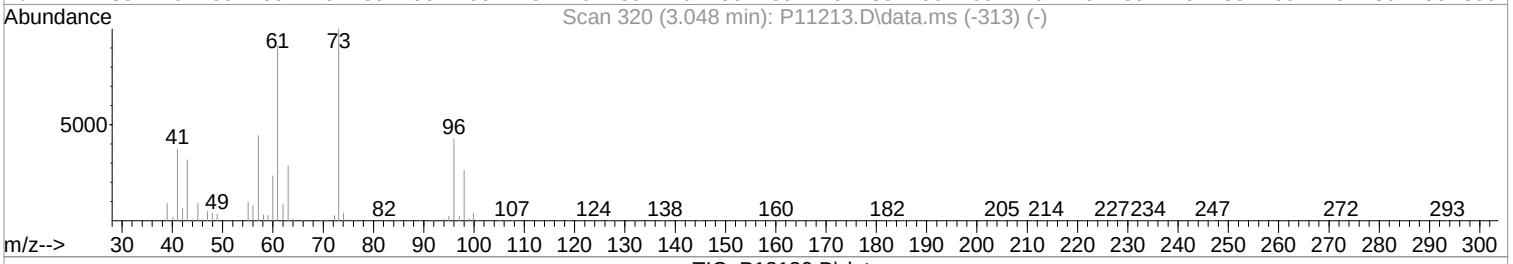
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12130.D
Acq On : 16 Sep 2017 2:50 am
Operator : K.Ruest
Sample : R1708647-010|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 18 09:55:57 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12130.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.036min (-0.004) 0.33 ppb m

response 977

Ion	Exp%	Act%
96.00	100	100
98.00	61.80	23.97#
61.00	214.10	62.27#
0.00	0.00	0.00

Manual Integration:

After

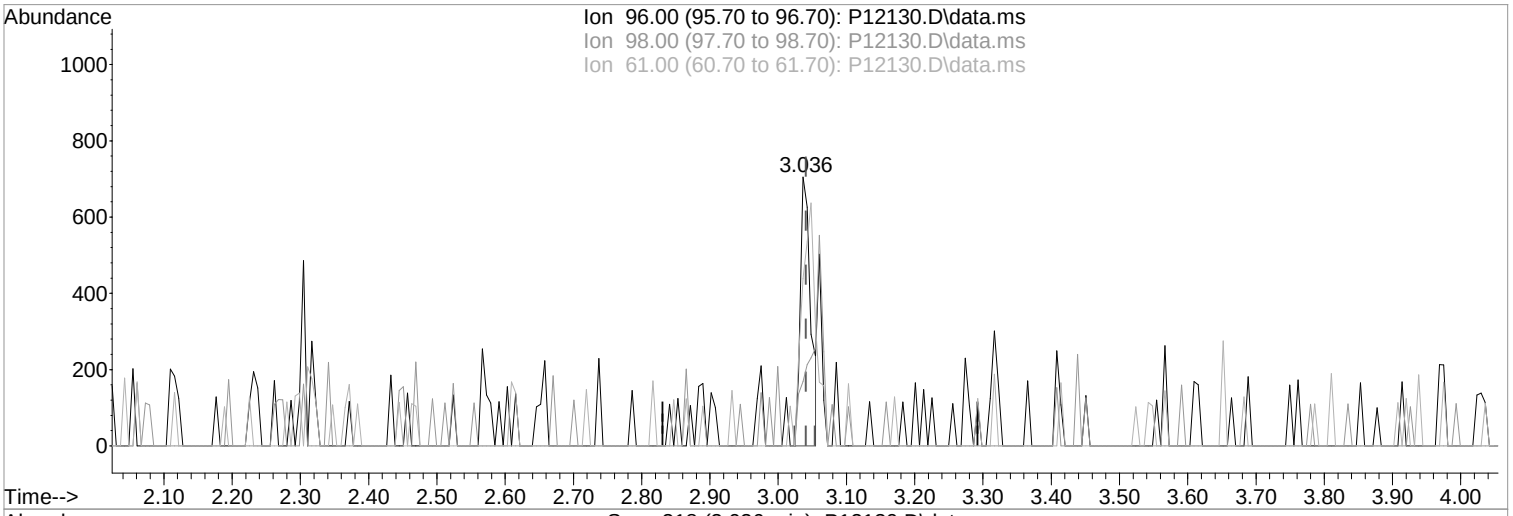
Split Peak

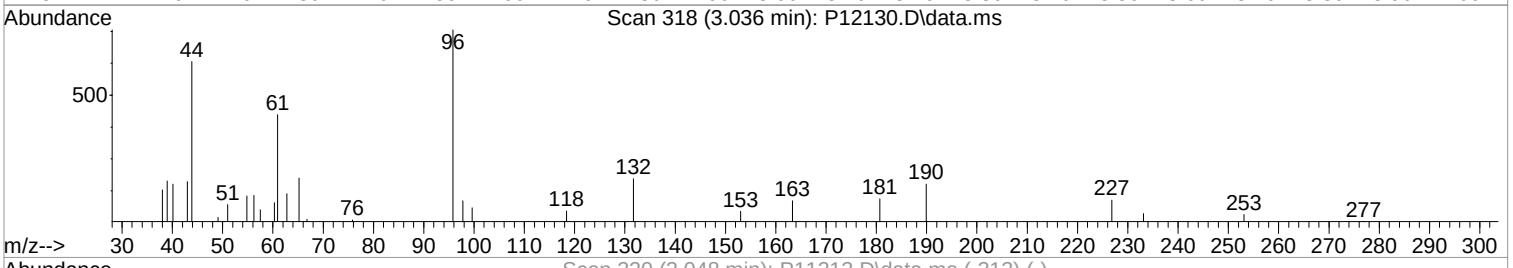
09/18/17

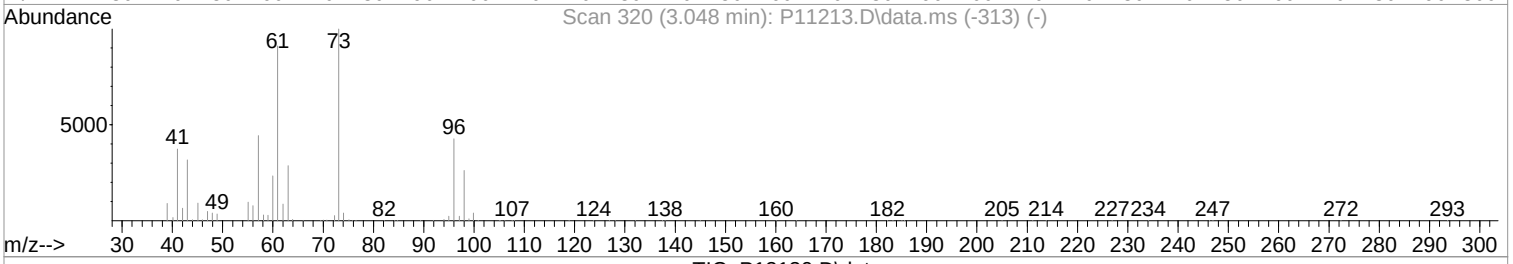
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12130.D
Acq On : 16 Sep 2017 2:50 am
Operator : K.Ruest
Sample : R1708647-010|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 18 09:55:57 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12130.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.036min (-0.004) 0.25 ppb

response 749

Ion	Exp%	Act%
96.00	100	100
98.00	61.80	23.97#
61.00	214.10	62.27#
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12130.D
Acq On : 16 Sep 2017 2:50 am
Operator : K.Ruest
Sample : R1708647-010|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 18 14:42:57 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

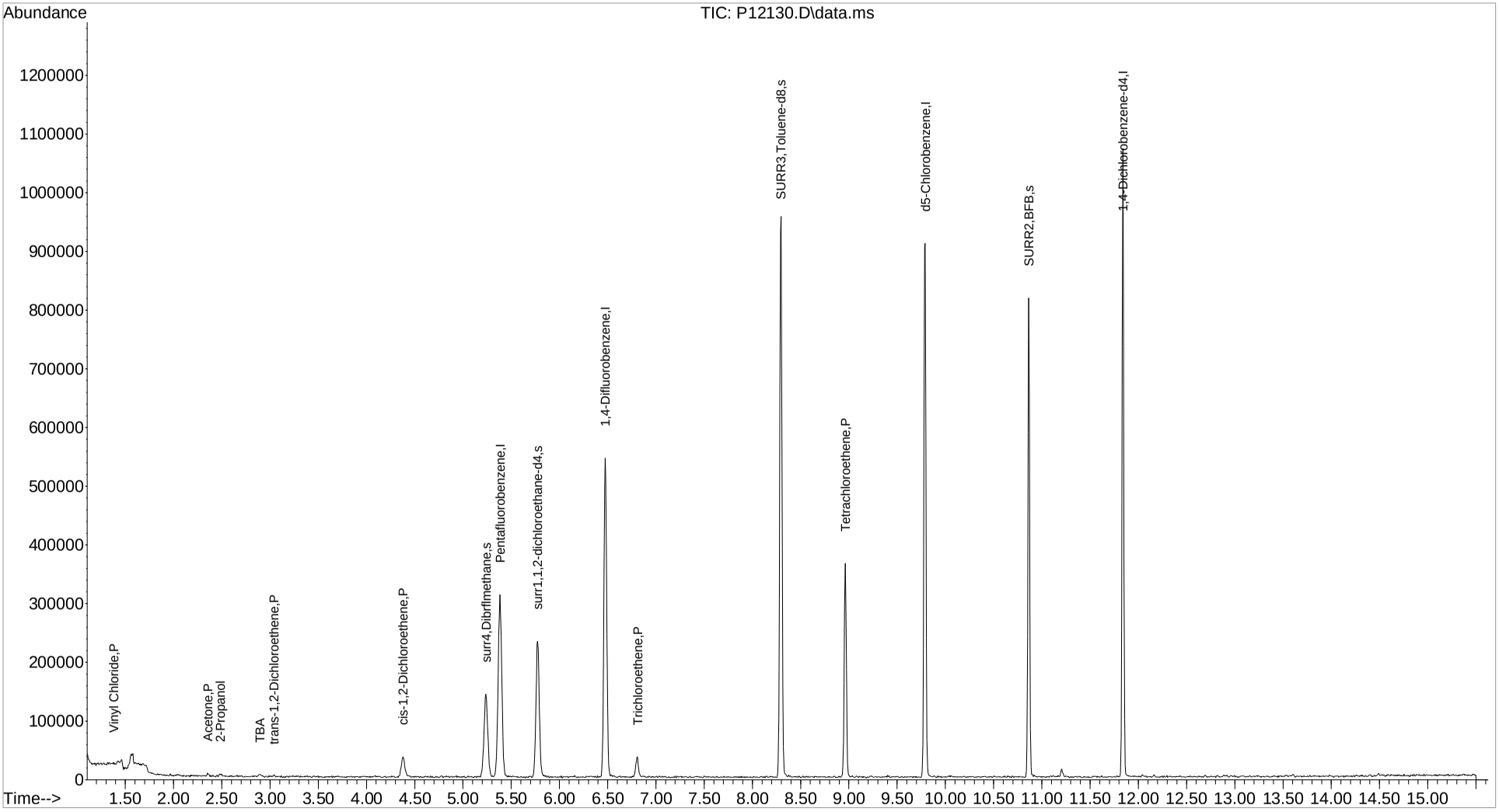
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	266389	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	432260	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	390983	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	188952	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	117037	48.55	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.10%				
48) surr1,1,2-dichloroetha...	5.773	65	188607	49.09	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.18%				
65) SURR3,Toluene-d8	8.291	98	554779	49.80	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.60%				
70) SURR2,BFB	10.864	95	214481	48.97	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.94%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.384	62	1108	0.24	ppb		85
15) Acetone	2.353	43	3439	1.06	ppb		80
16) 2-Propanol	2.481	45	3376	5.01	ppb		69
23) TBA	2.896	59	1869	1.99	ppb		96
26) trans-1,2-Dichloroethene	3.036	96	977m	0.33	ppb		
34) cis-1,2-Dichloroethene	4.377	96	15999	4.56	ppb	#	78
54) Trichloroethene	6.810	130	11037	3.36	ppb	#	73
72) Tetrachloroethene	8.962	164	70326	29.24	ppb		86

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

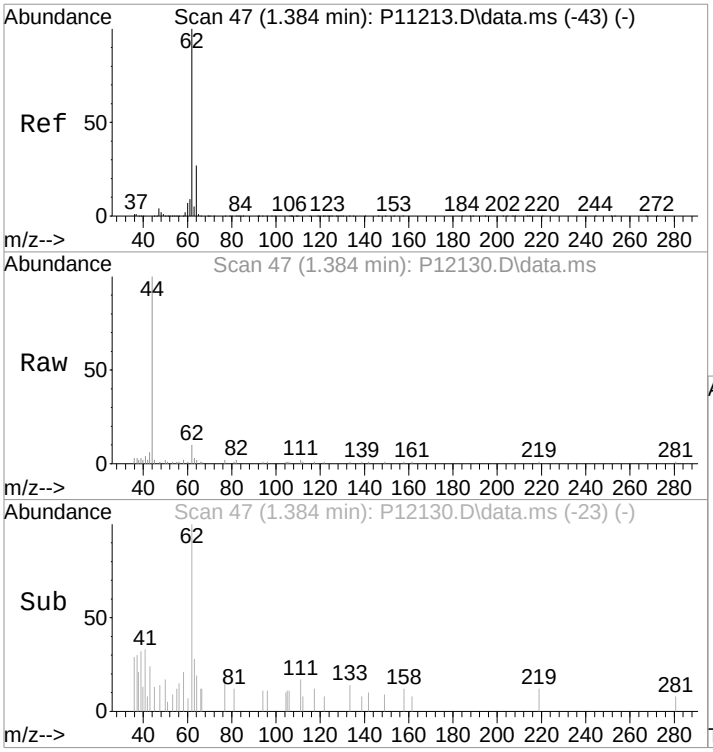
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12130.D
Acq On : 16 Sep 2017 2:50 am
Operator : K.Ruest
Sample : R1708647-010|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 18 14:42:57 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



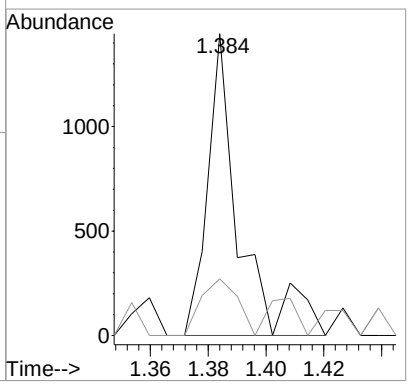
1st 09/18/17
2nd 09/20/17

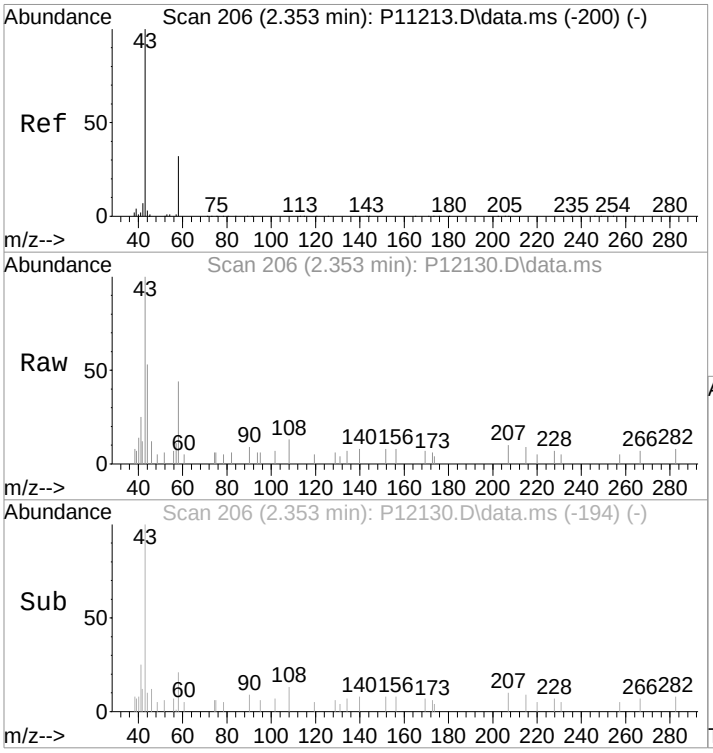


#4
Vinyl Chloride
Concen: 0.24 ppb
RT: 1.384 min Scan# 47
Delta R.T. 0.000 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion: 62 Resp: 1108

Ion	Ratio	Lower	Upper
62	100		
64	18.8	6.7	46.7

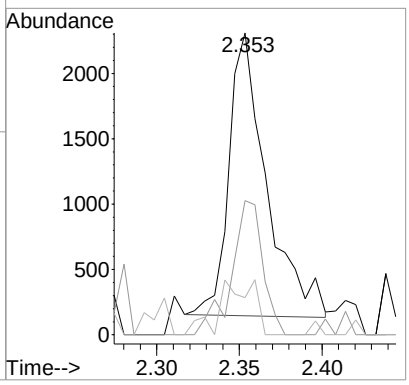


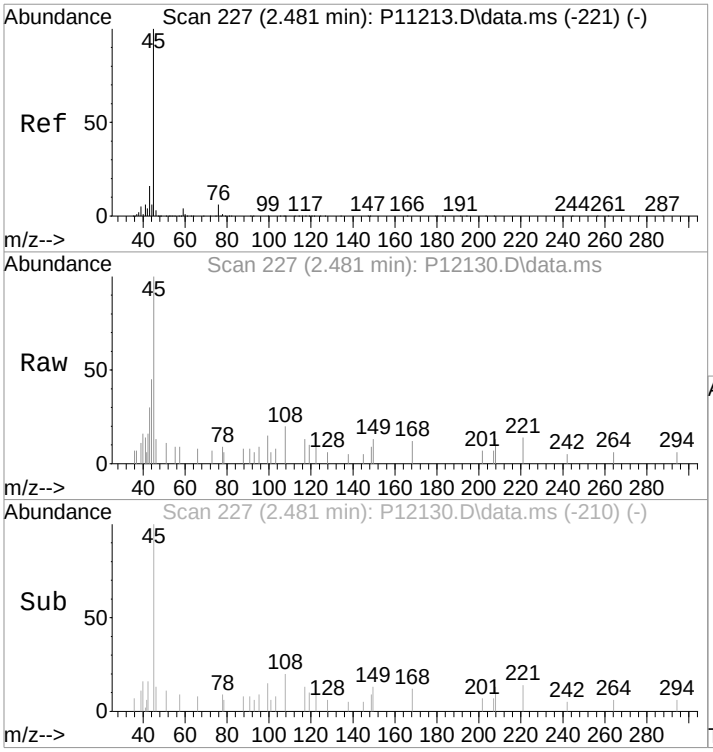


#15
Acetone
Concen: 1.06 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion: 43 Resp: 3439

Ion	Ratio	Lower	Upper
43	100		
58	44.5	12.3	52.3
42	12.4	0.0	27.4

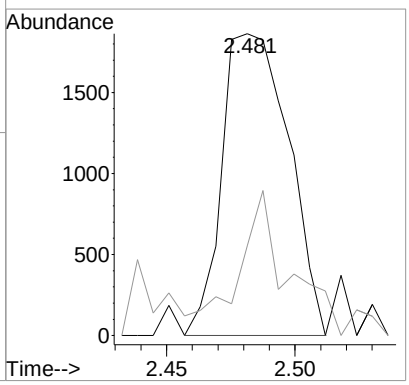


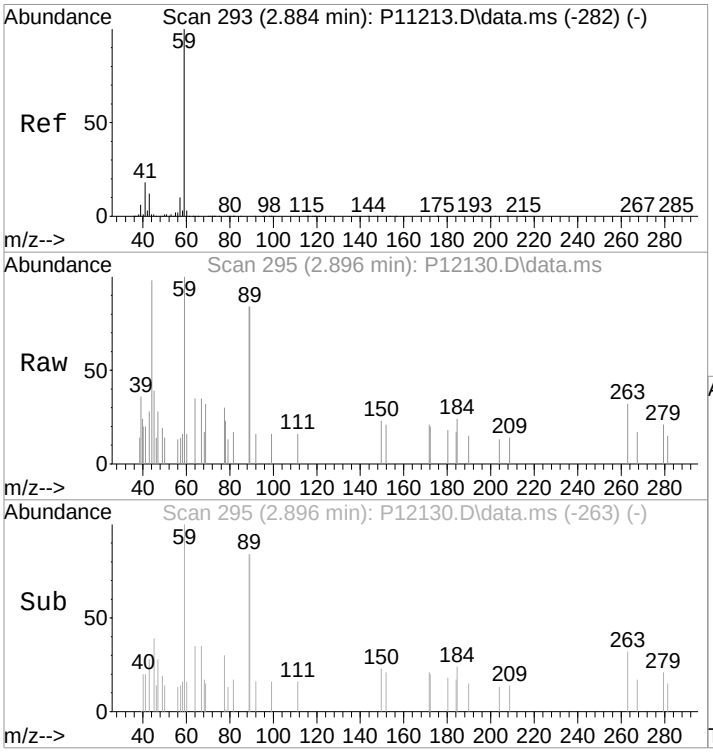


#16
2-Propanol
Concen: 5.01 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.008 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion: 45 Resp: 3376

Ion	Ratio	Lower	Upper
45	100		
43	29.7	0.0	36.5

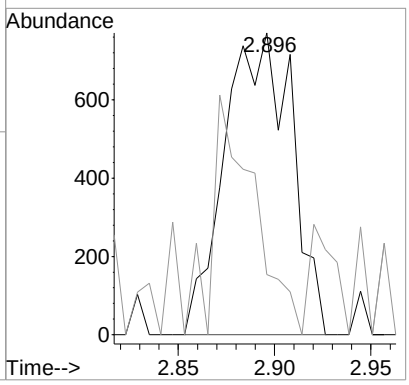


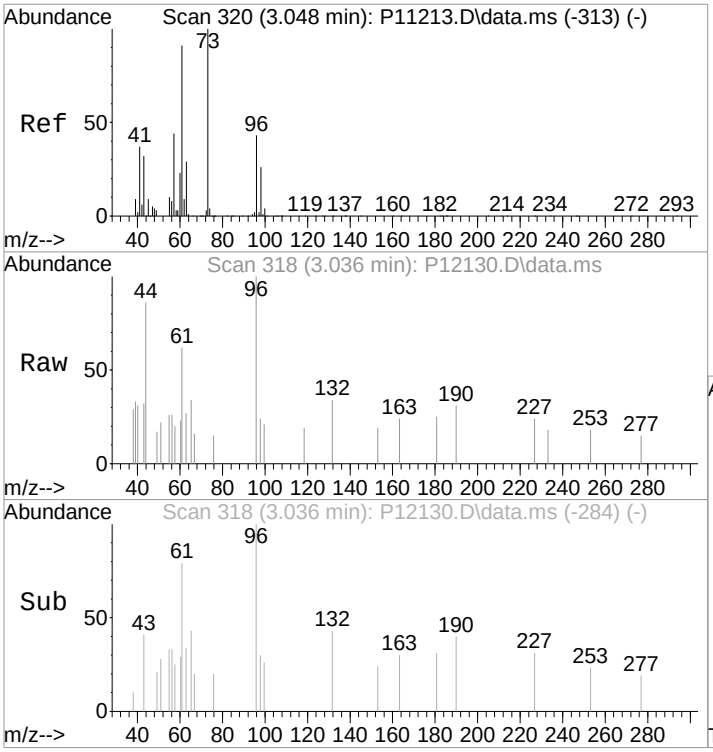


#23
TBA
Concen: 1.99 ppb
RT: 2.896 min Scan# 295
Delta R.T. 0.010 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion: 59 Resp: 1869

Ion	Ratio	Lower	Upper
59	100		
41	20.0	0.0	38.3

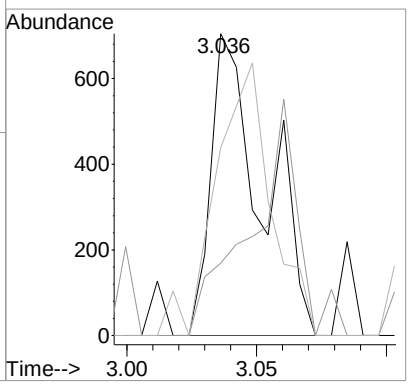


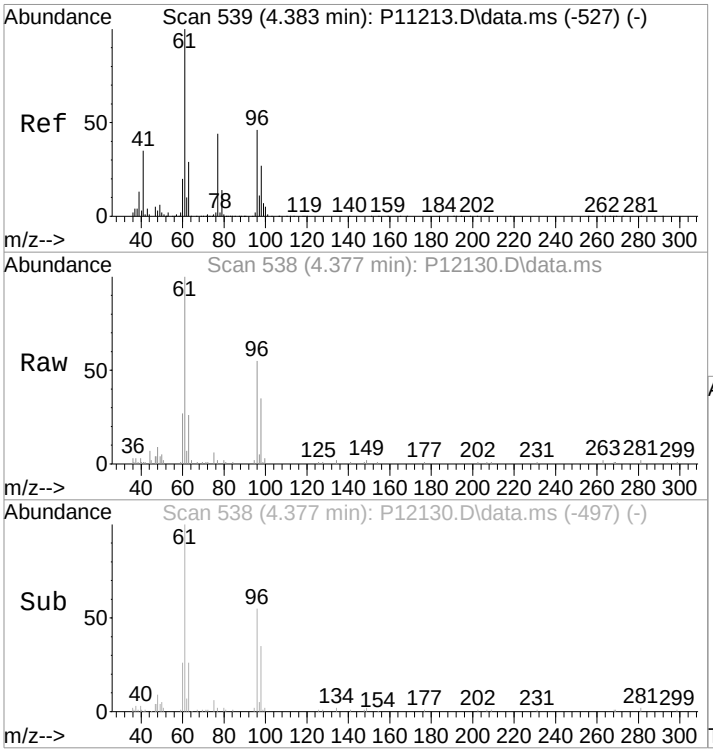


#26
trans-1,2-Dichloroethene
Concen: 0.33 ppb m
RT: 3.036 min Scan# 318
Delta R.T. -0.004 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion: 96 Resp: 977

Ion	Ratio	Lower	Upper
96	100		
98	24.0	41.8	81.8#
61	62.3	194.1	234.1#

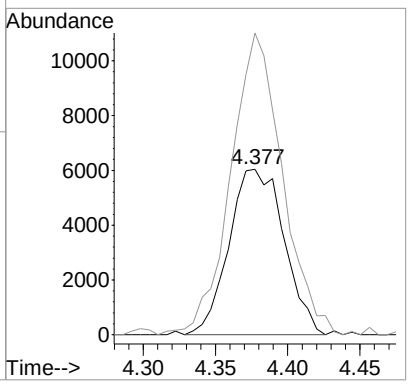


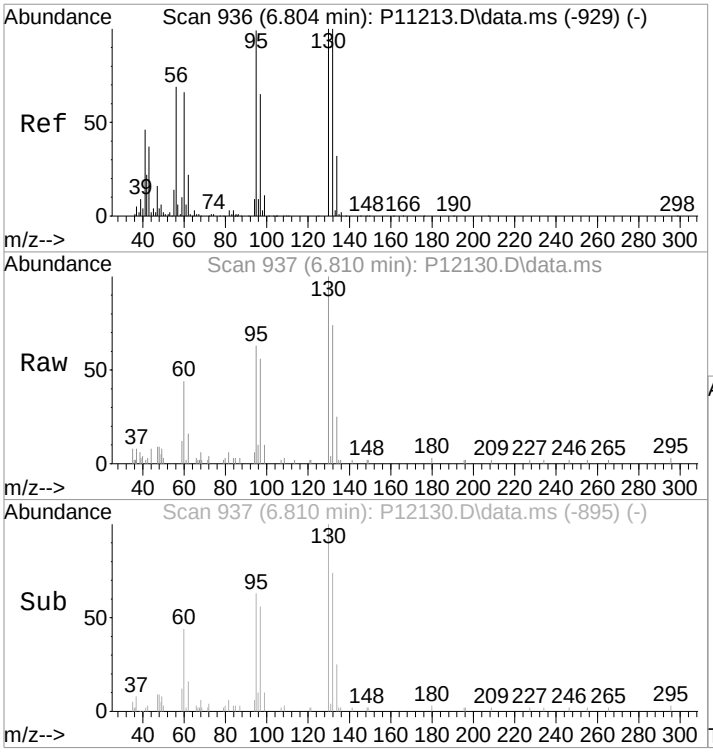


#34
cis-1,2-Dichloroethene
Concen: 4.56 ppb
RT: 4.377 min Scan# 538
Delta R.T. -0.008 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion: 96 Resp: 15999

Ion	Ratio	Lower	Upper
96	100		
61	182.4	197.5	237.5#

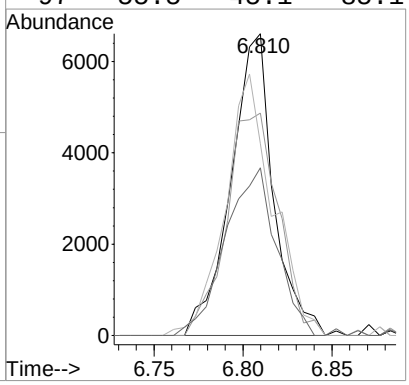


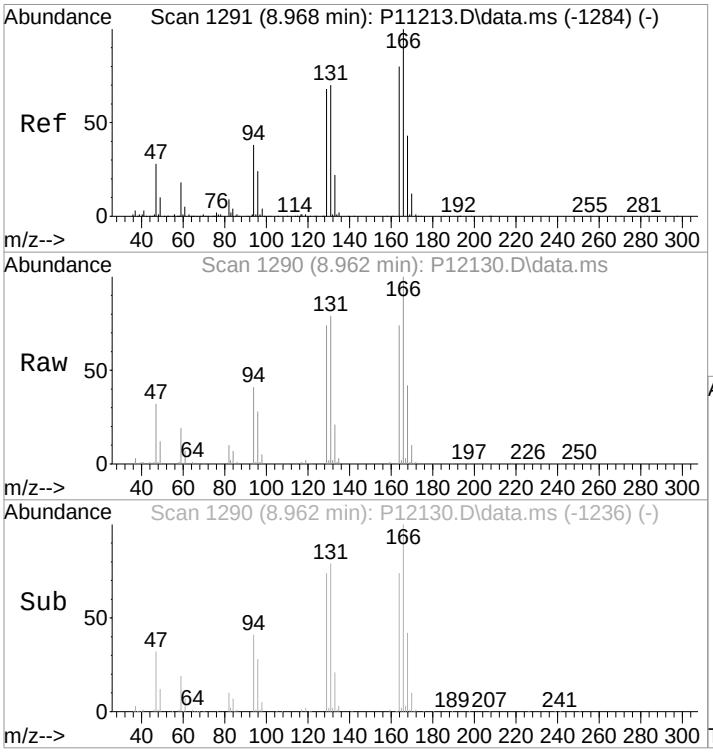


#54
Trichloroethene
Concen: 3.36 ppb
RT: 6.810 min Scan# 937
Delta R.T. 0.006 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion:130 Resp: 11037

Ion	Ratio	Lower	Upper
130	100		
132	73.6	80.0	120.0#
95	63.5	79.4	119.4#
97	55.5	45.1	85.1

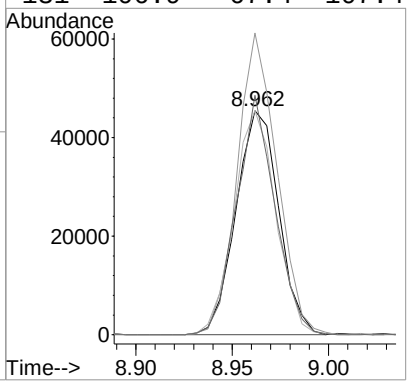




#72
Tetrachloroethene
Concen: 29.24 ppb
RT: 8.962 min Scan# 1290
Delta R.T. 0.000 min
Lab File: P12130.D
Acq: 16 Sep 2017 2:50 am

Tgt Ion:164 Resp: 70326

Ion	Ratio	Lower	Upper
164	100		
166	134.8	105.1	145.1
129	100.0	65.3	105.3
131	106.9	67.4	107.4



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12131.D
Acq On : 16 Sep 2017 3:12 am
Operator : K.Ruest
Sample : R1708647-011|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Sep 18 14:45:32 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

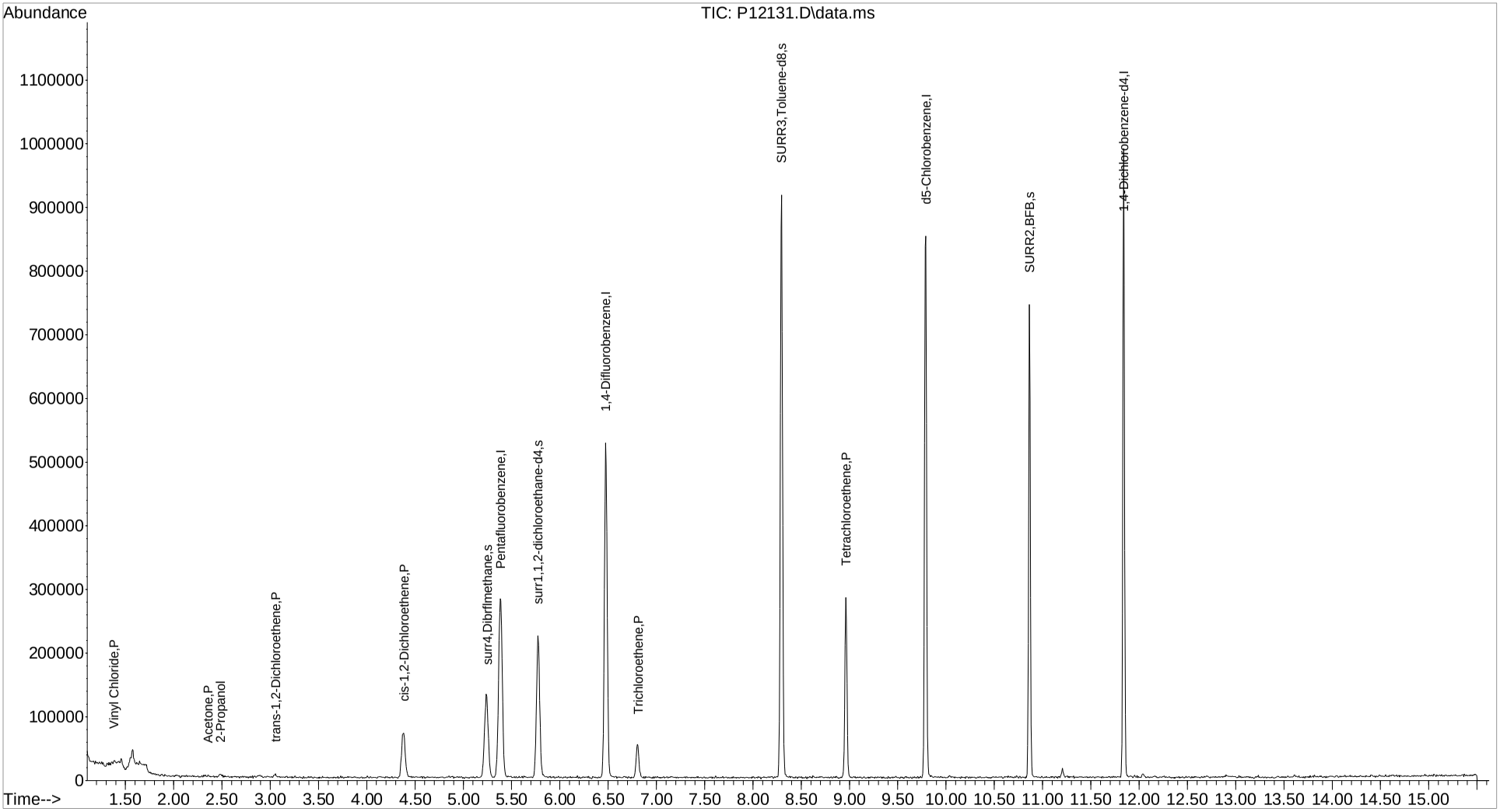
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	245669	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	414225	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	367117	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	174842	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	106228	45.99	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 91.98%				
48) surr1,1,2-dichloroetha...	5.773	65	174100	47.28	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 94.56%				
65) SURR3,Toluene-d8	8.297	98	518643	48.59	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.18%				
70) SURR2,BFB	10.864	95	192700	45.92	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.84%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.384	62	2529	0.60	ppb		77
15) Acetone	2.359	43	2998	1.00	ppb		84
16) 2-Propanol	2.487	45	5815	9.36	ppb		99
26) trans-1,2-Dichloroethene	3.054	96	1348	0.49	ppb	#	68
34) cis-1,2-Dichloroethene	4.383	96	35997	11.13	ppb	#	75
54) Trichloroethene	6.810	130	18570	5.89	ppb	#	76
72) Tetrachloroethene	8.962	164	51713	22.90	ppb	#	86

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

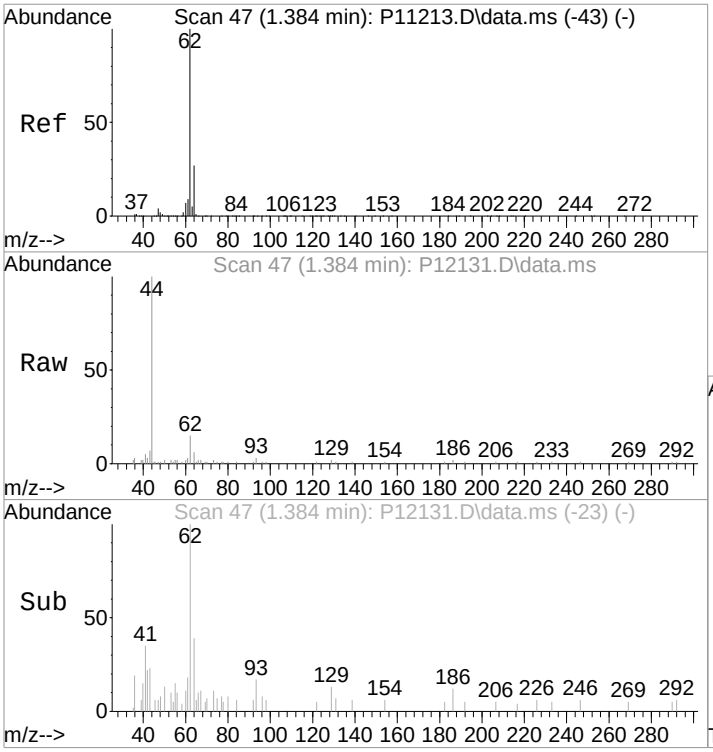
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12131.D
Acq On : 16 Sep 2017 3:12 am
Operator : K.Ruest
Sample : R1708647-011|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Sep 18 14:45:32 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



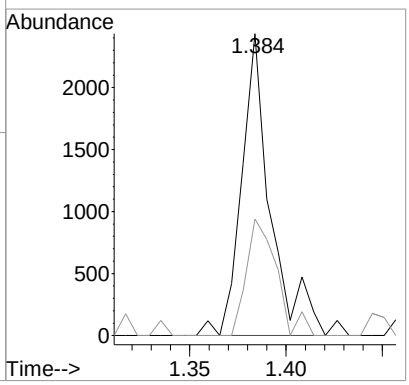
1st 09/18/17
2nd 09/20/17

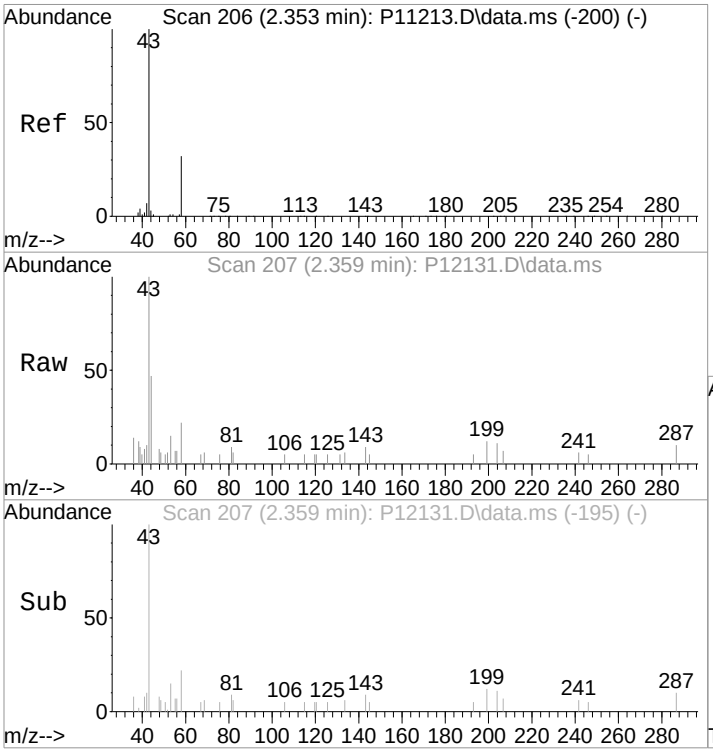


#4
Vinyl Chloride
Concen: 0.60 ppb
RT: 1.384 min Scan# 47
Delta R.T. -0.000 min
Lab File: P12131.D
Acq: 16 Sep 2017 3:12 am

Tgt Ion: 62 Resp: 2529

Ion	Ratio	Lower	Upper
62	100		
64	38.5	6.7	46.7

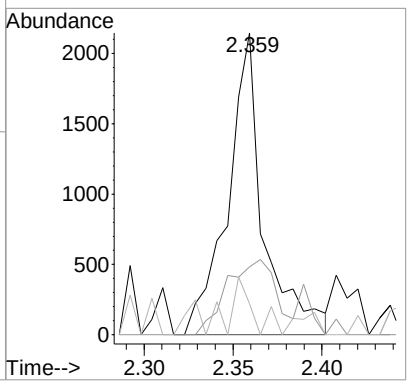


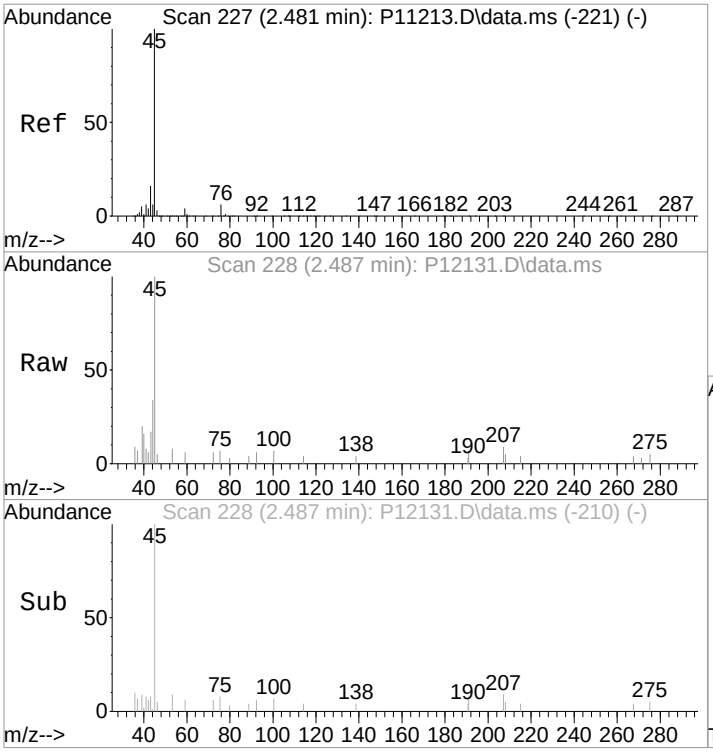


#15
Acetone
Concen: 1.00 ppb
RT: 2.359 min Scan# 207
Delta R.T. 0.002 min
Lab File: P12131.D
Acq: 16 Sep 2017 3:12 am

Tgt Ion: 43 Resp: 2998

Ion	Ratio	Lower	Upper
43	100		
58	22.5	12.3	52.3
42	10.3	0.0	27.4

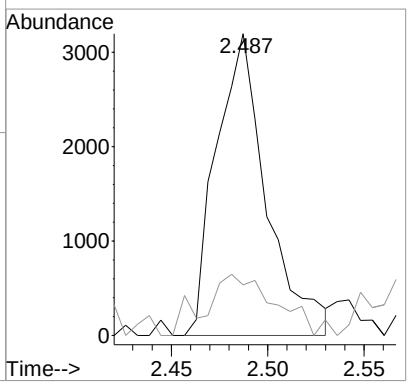


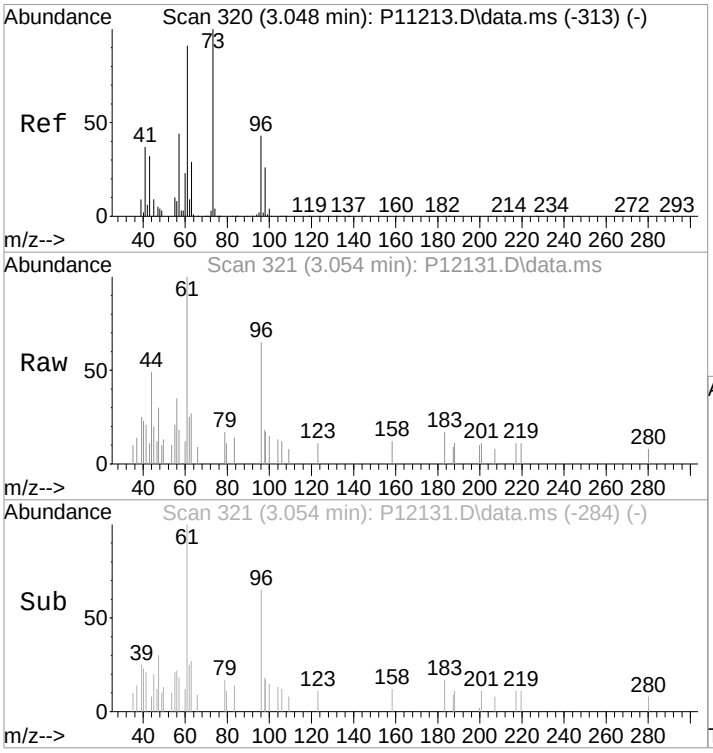


#16
2-Propanol
Concen: 9.36 ppb
RT: 2.487 min Scan# 228
Delta R.T. -0.002 min
Lab File: P12131.D
Acq: 16 Sep 2017 3:12 am

Tgt Ion: 45 Resp: 5815

Ion	Ratio	Lower	Upper
45	100		
43	16.7	0.0	36.5

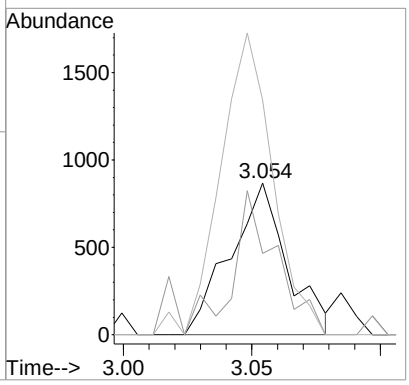


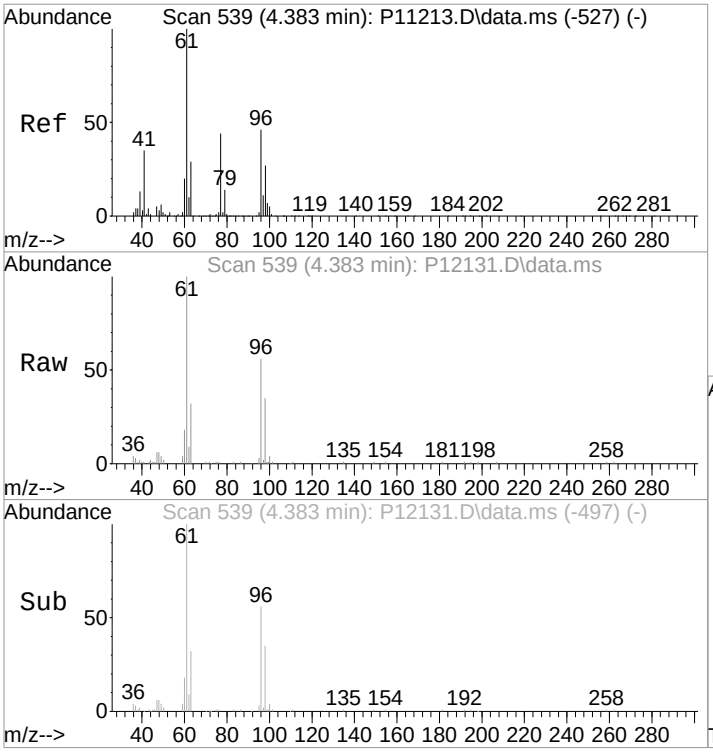


#26
trans-1,2-Dichloroethene
Concen: 0.49 ppb
RT: 3.054 min Scan# 321
Delta R.T. 0.014 min
Lab File: P12131.D
Acq: 16 Sep 2017 3:12 am

Tgt Ion: 96 Resp: 1348

Ion	Ratio	Lower	Upper
96	100		
98	53.7	41.8	81.8
61	154.7	194.1	234.1#

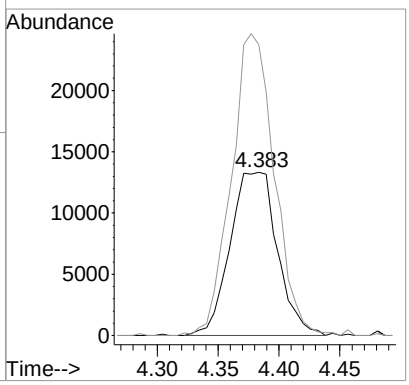


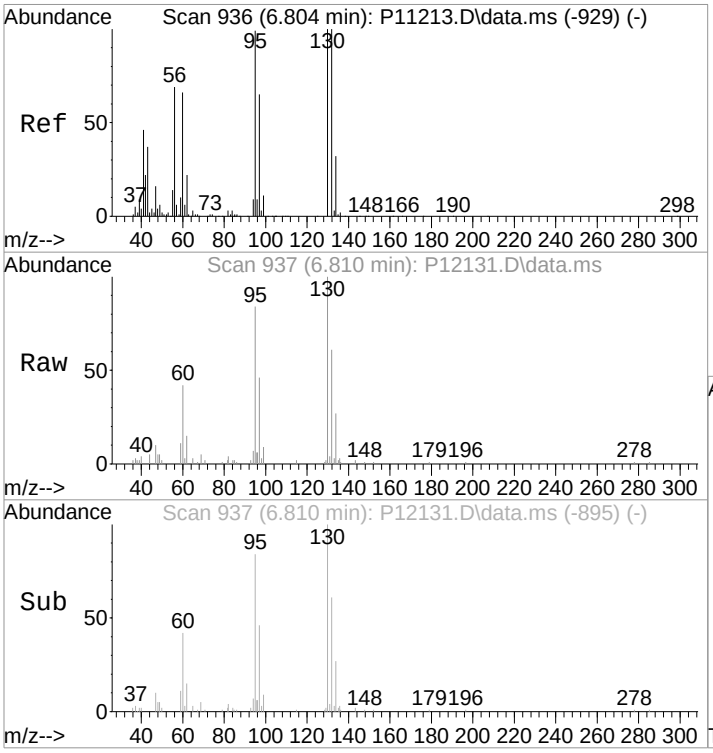


#34
cis-1,2-Dichloroethene
Concen: 11.13 ppb
RT: 4.383 min Scan# 539
Delta R.T. -0.002 min
Lab File: P12131.D
Acq: 16 Sep 2017 3:12 am

Tgt Ion: 96 Resp: 35997

Ion	Ratio	Lower	Upper
96	100		
61	178.2	197.5	237.5#

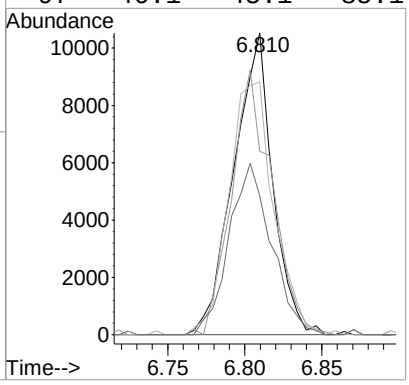


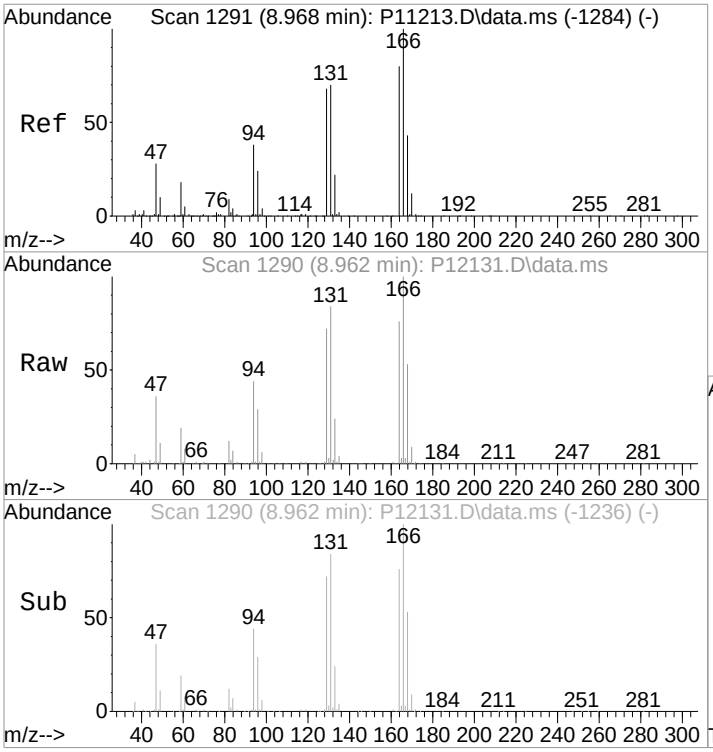


#54
Trichloroethene
Concen: 5.89 ppb
RT: 6.810 min Scan# 937
Delta R.T. 0.006 min
Lab File: P12131.D
Acq: 16 Sep 2017 3:12 am

Tgt Ion:130 Resp: 18570

Ion	Ratio	Lower	Upper
130	100		
132	60.7	80.0	120.0#
95	90.1	79.4	119.4
97	46.1	45.1	85.1

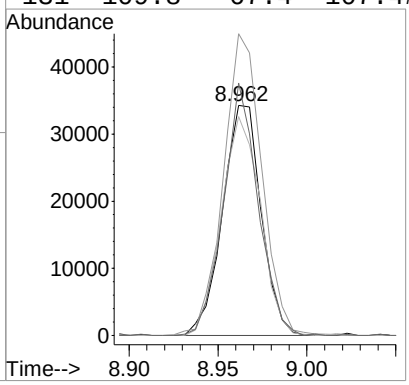




#72
Tetrachloroethene
Concen: 22.90 ppb
RT: 8.962 min Scan# 1290
Delta R.T. -0.000 min
Lab File: P12131.D
Acq: 16 Sep 2017 3:12 am

Tgt Ion:164 Resp: 51713

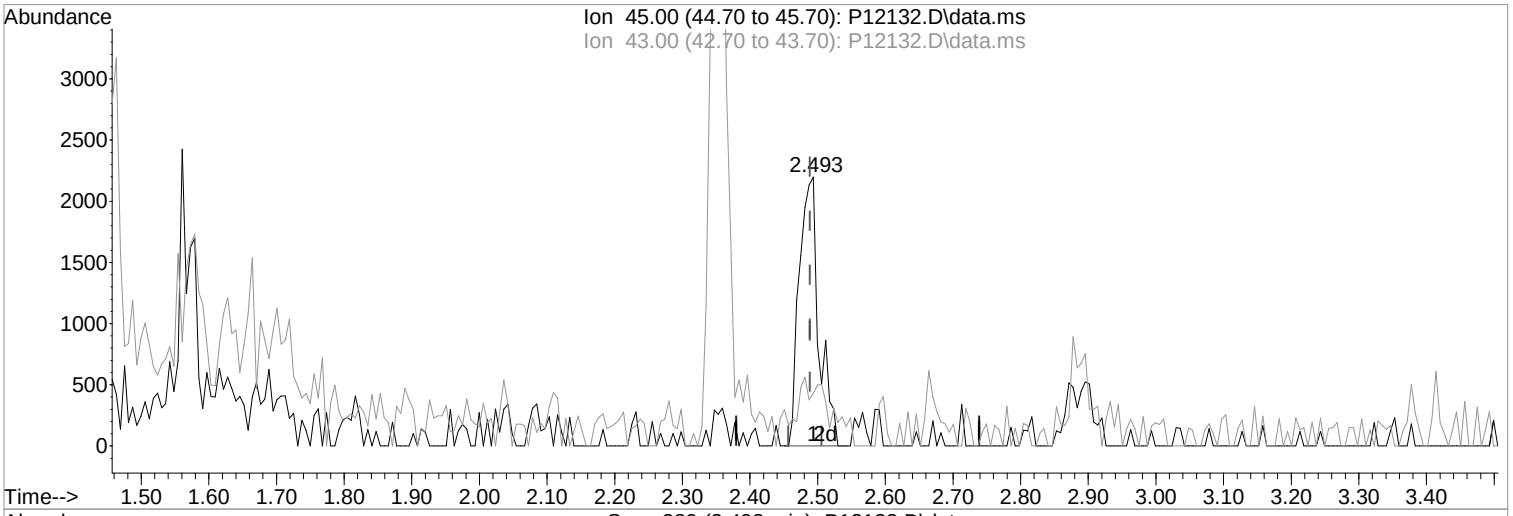
Ion	Ratio	Lower	Upper
164	100		
166	134.7	105.1	145.1
129	95.1	65.3	105.3
131	109.8	67.4	107.4#

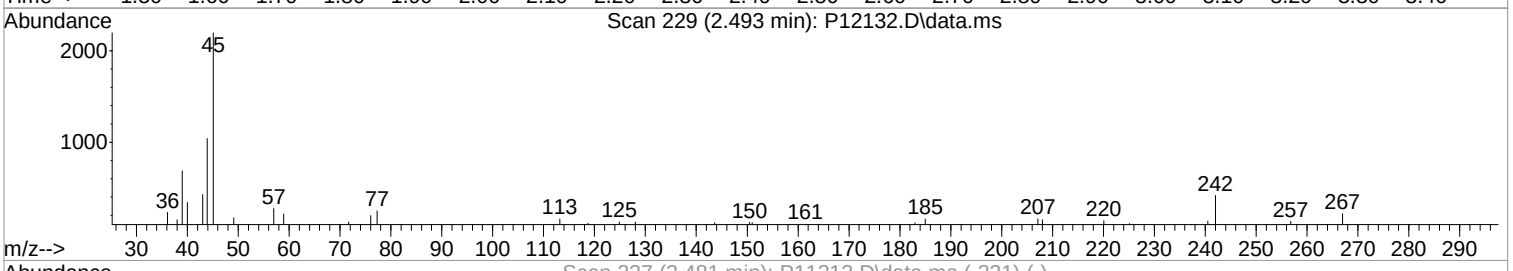


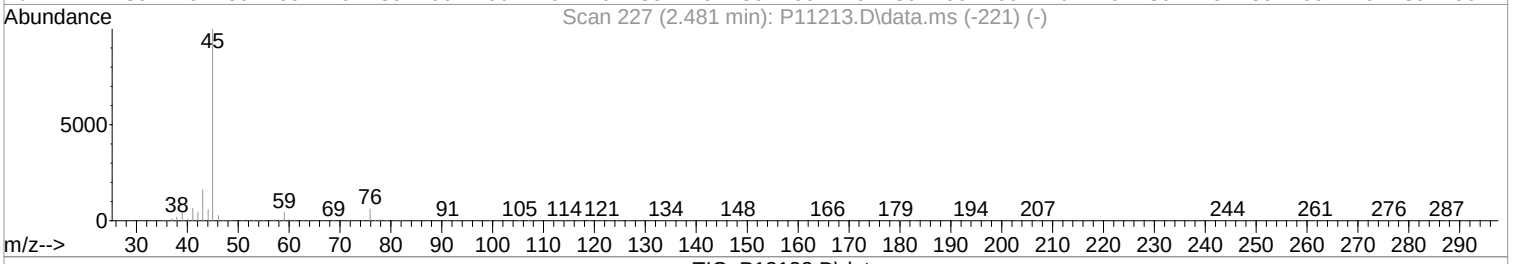
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12132.D
Acq On : 16 Sep 2017 3:34 am
Operator : K.Ruest
Sample : R1708647-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 18 09:56:30 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12132.D\data.ms

(16) 2-Propanol

2.493min (+0.004) 6.88 ppb m

response 4429

Ion	Exp%	Act%
45.00	100	100
43.00	16.50	19.56
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

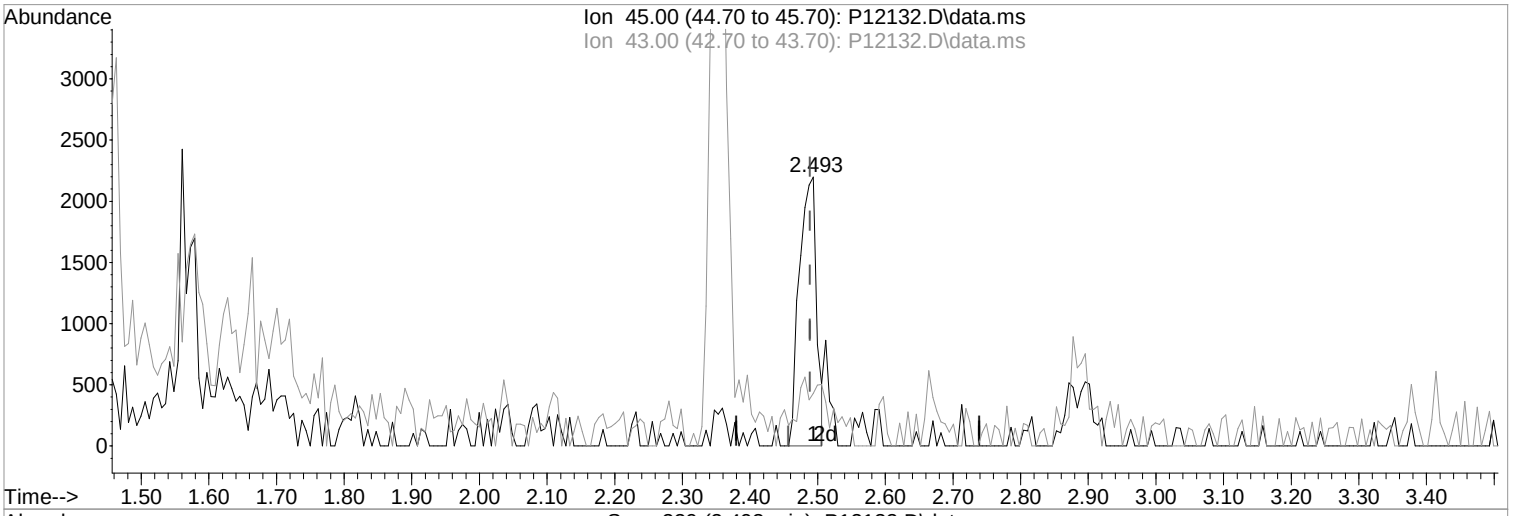
Split Peak

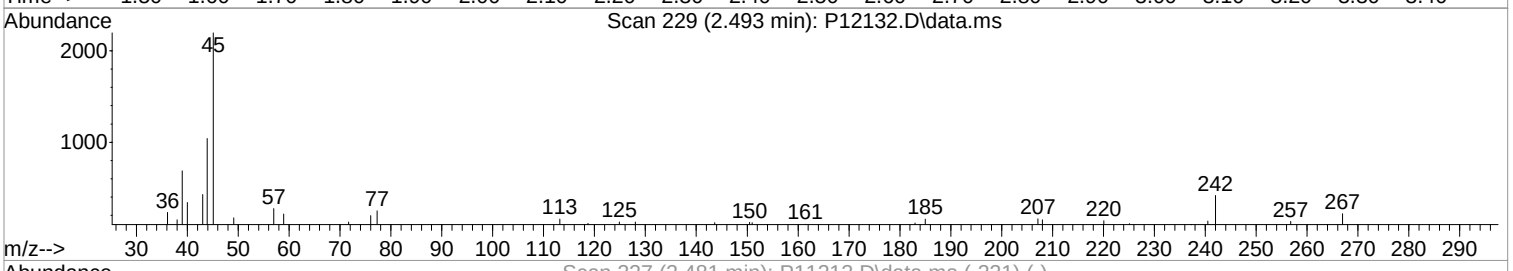
09/18/17

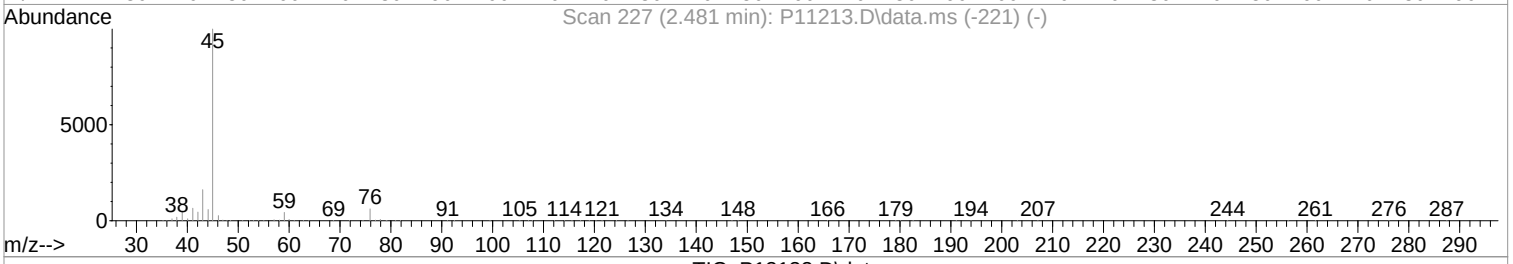
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12132.D
Acq On : 16 Sep 2017 3:34 am
Operator : K.Ruest
Sample : R1708647-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 18 09:56:30 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12132.D\data.ms

(16) 2-Propanol

2.493min (+0.004) 6.01 ppb

response 3869

Ion	Exp%	Act%
45.00	100	100
43.00	16.50	19.56
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12132.D
Acq On : 16 Sep 2017 3:34 am
Operator : K.Ruest
Sample : R1708647-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 18 14:47:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

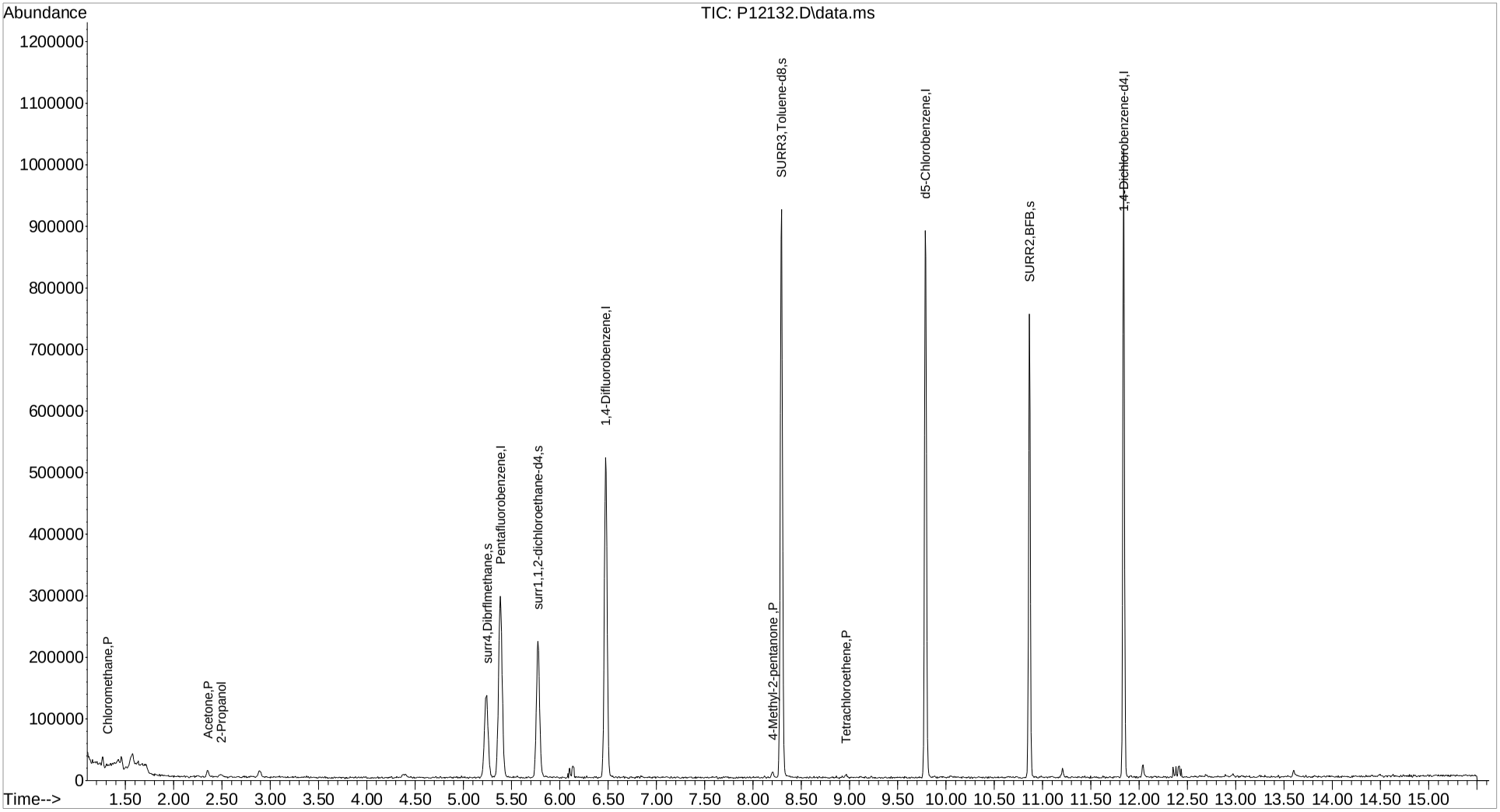
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	254369	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	415141	50.00	ppb		0.00
71) d5-Chlorobenzene	9.785	117	370441	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	177134	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	113675	49.10	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.20%				
48) surr1,1,2-dichloroetha...	5.773	65	178007	48.24	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.48%				
65) SURR3,Toluene-d8	8.297	98	519519	48.56	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.12%				
70) SURR2,BFB	10.864	95	199419	47.41	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.82%				
Target Compounds							Qvalue
3) Chloromethane	1.311	50	1834	0.27	ppb		88
15) Acetone	2.353	43	11068	3.57	ppb		93
16) 2-Propanol	2.493	45	4429m	6.88	ppb		
64) 4-Methyl-2-pentanone	8.206	43	6078	0.87	ppb		78
72) Tetrachloroethene	8.962	164	662	0.29	ppb	#	66

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

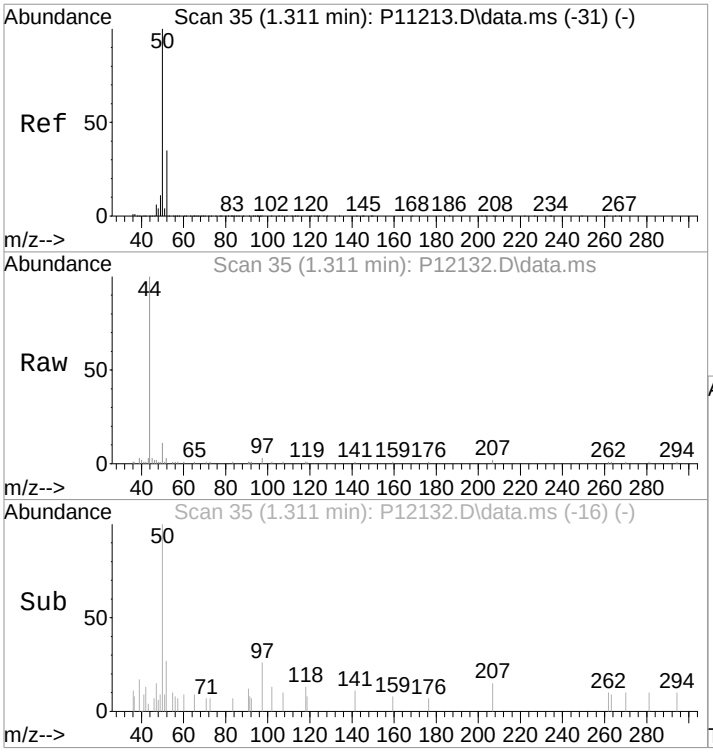
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12132.D
Acq On : 16 Sep 2017 3:34 am
Operator : K.Ruest
Sample : R1708647-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 18 14:47:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



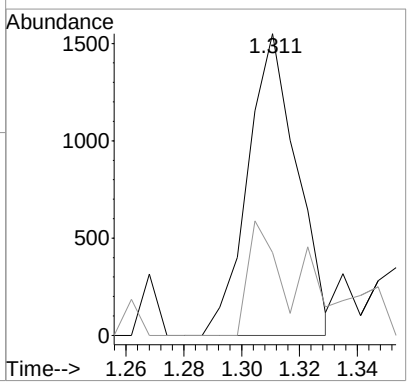
1st 09/18/17
2nd 09/20/17

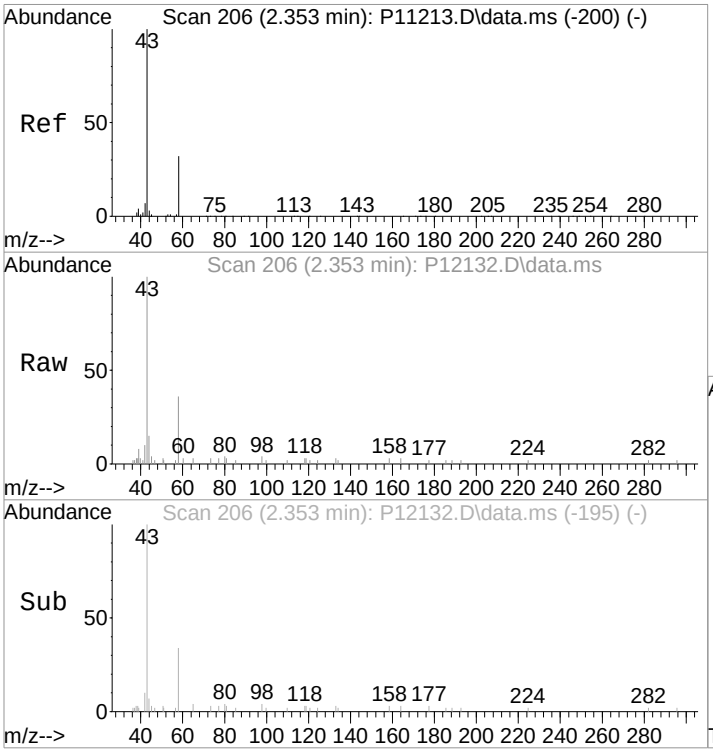


#3
Chloromethane
Concen: 0.27 ppb
RT: 1.311 min Scan# 35
Delta R.T. 0.002 min
Lab File: P12132.D
Acq: 16 Sep 2017 3:34 am

Tgt Ion: 50 Resp: 1834

Ion	Ratio	Lower	Upper
50	100		
52	27.5	14.5	54.5

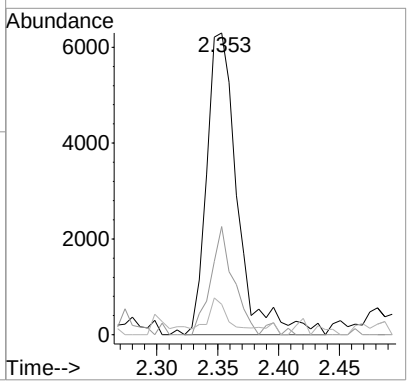


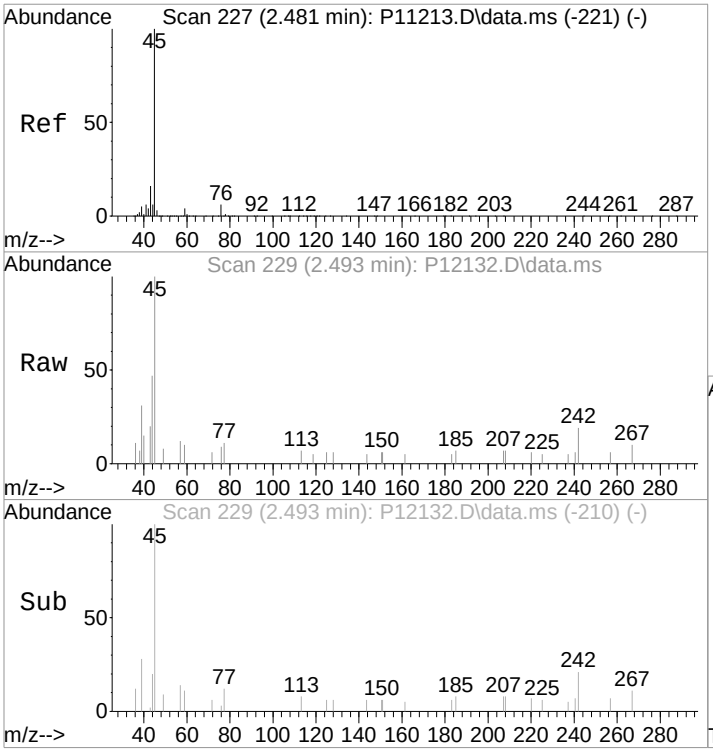


#15
Acetone
Concen: 3.57 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12132.D
Acq: 16 Sep 2017 3:34 am

Tgt Ion: 43 Resp: 11068

Ion	Ratio	Lower	Upper
43	100		
58	35.8	12.3	52.3
42	10.1	0.0	27.4

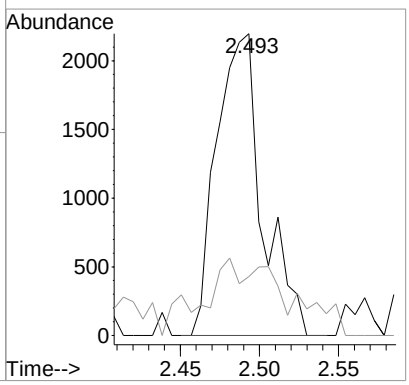


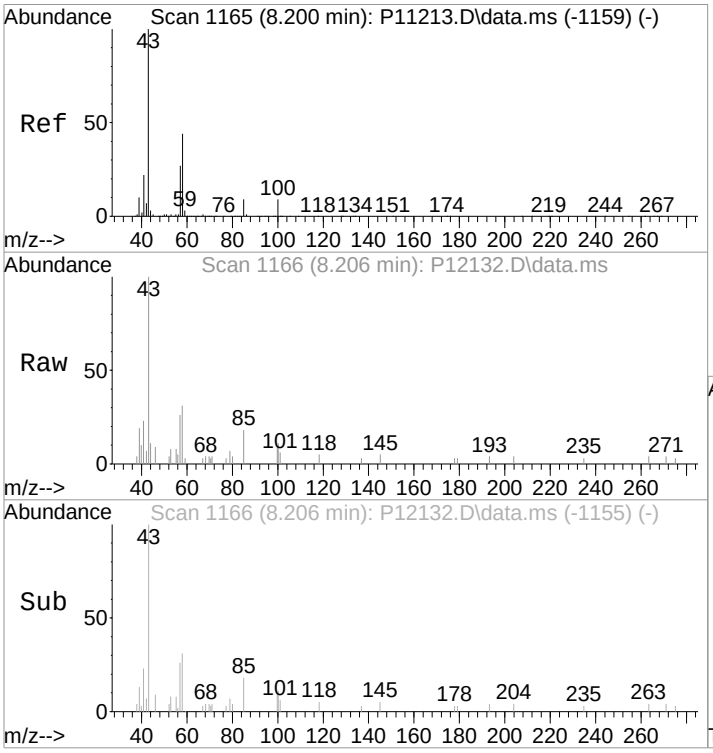


#16
2-Propanol
Concen: 6.88 ppb m
RT: 2.493 min Scan# 229
Delta R.T. 0.004 min
Lab File: P12132.D
Acq: 16 Sep 2017 3:34 am

Tgt Ion: 45 Resp: 4429

Ion	Ratio	Lower	Upper
45	100		
43	19.6	0.0	36.5

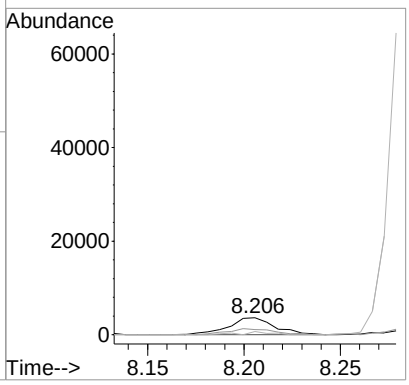


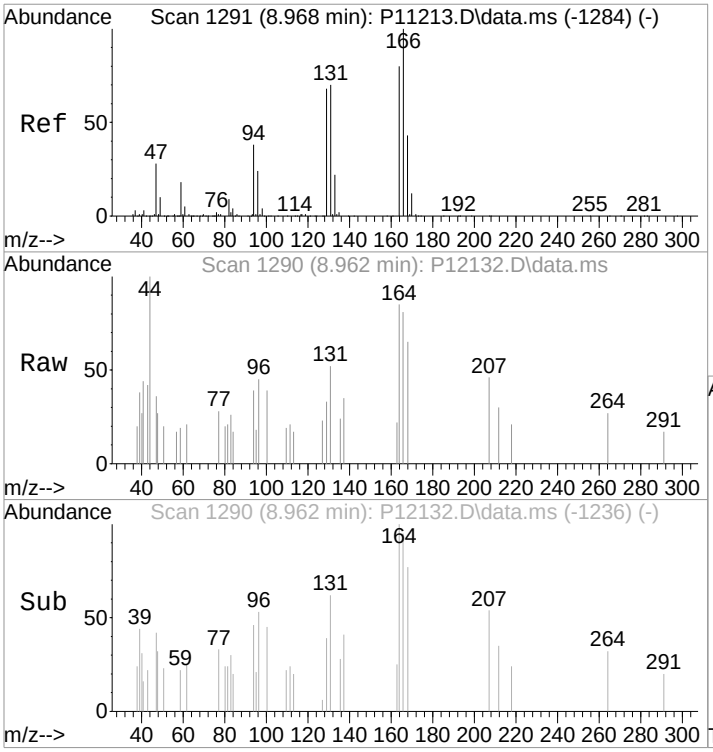


#64
4-Methyl-2-pentanone
Concen: 0.87 ppb
RT: 8.206 min Scan# 1166
Delta R.T. 0.004 min
Lab File: P12132.D
Acq: 16 Sep 2017 3:34 am

Tgt Ion: 43 Resp: 6078

Ion	Ratio	Lower	Upper
43	100		
58	30.9	24.2	64.2
100	20.0	0.0	28.9

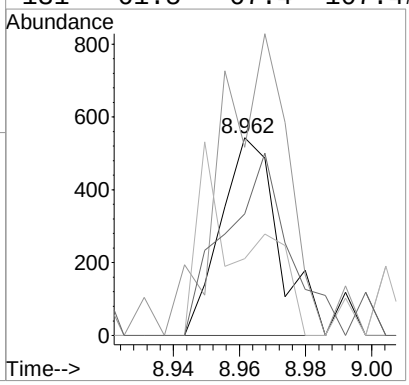




#72
Tetrachloroethene
Concen: 0.29 ppb
RT: 8.962 min Scan# 1290
Delta R.T. -0.000 min
Lab File: P12132.D
Acq: 16 Sep 2017 3:34 am

Tgt Ion:164 Resp: 662

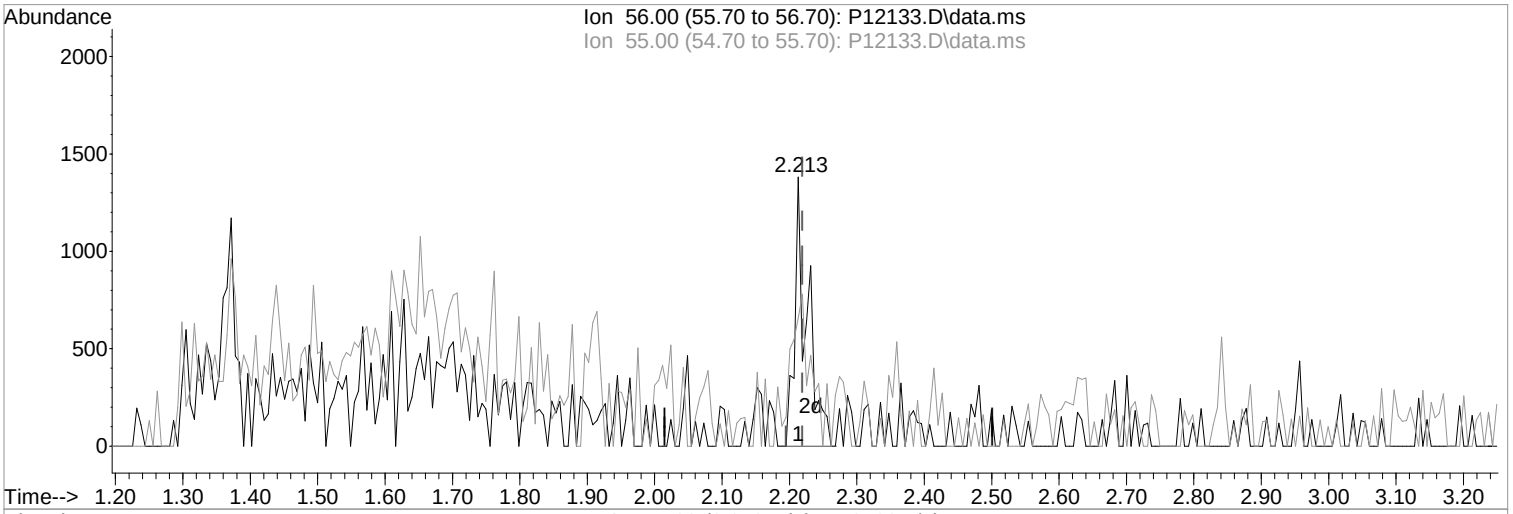
Ion	Ratio	Lower	Upper
164	100		
166	95.2	105.1	145.1#
129	38.9	65.3	105.3#
131	61.5	67.4	107.4#

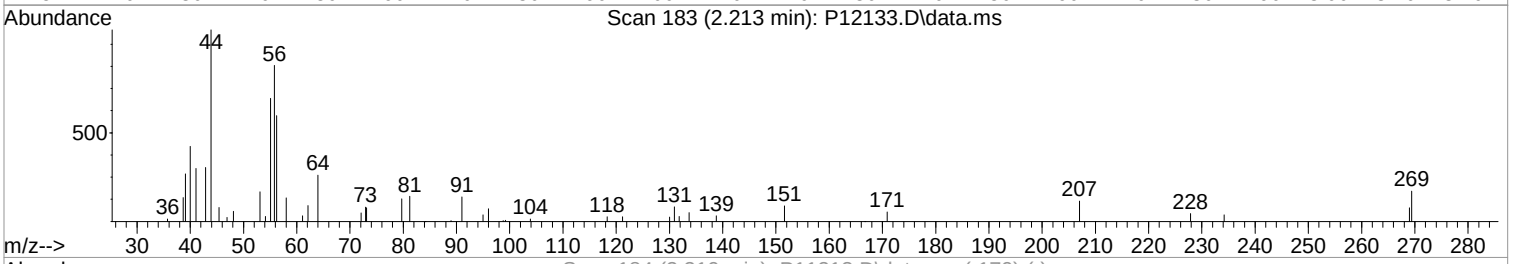


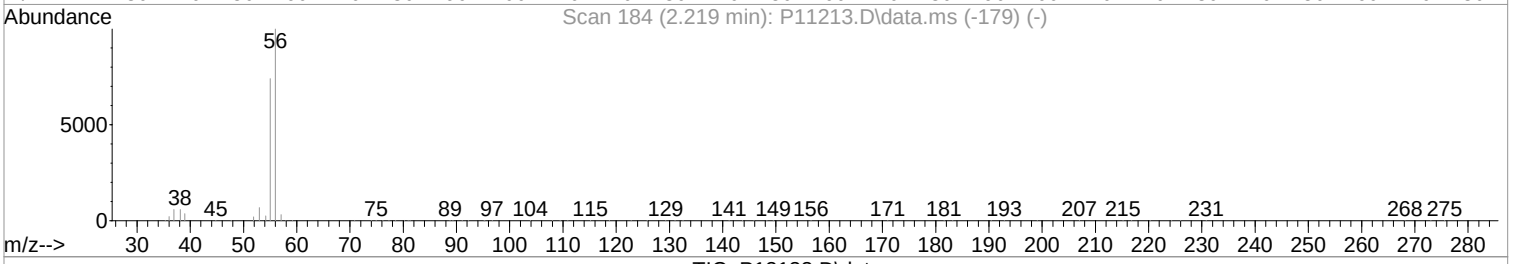
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 09:56:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12133.D\data.ms

(12) Acrolein

2.213min (-0.006) 1.44 ppb m

response 1773

Ion	Exp%	Act%
56.00	100	100
55.00	74.30	81.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

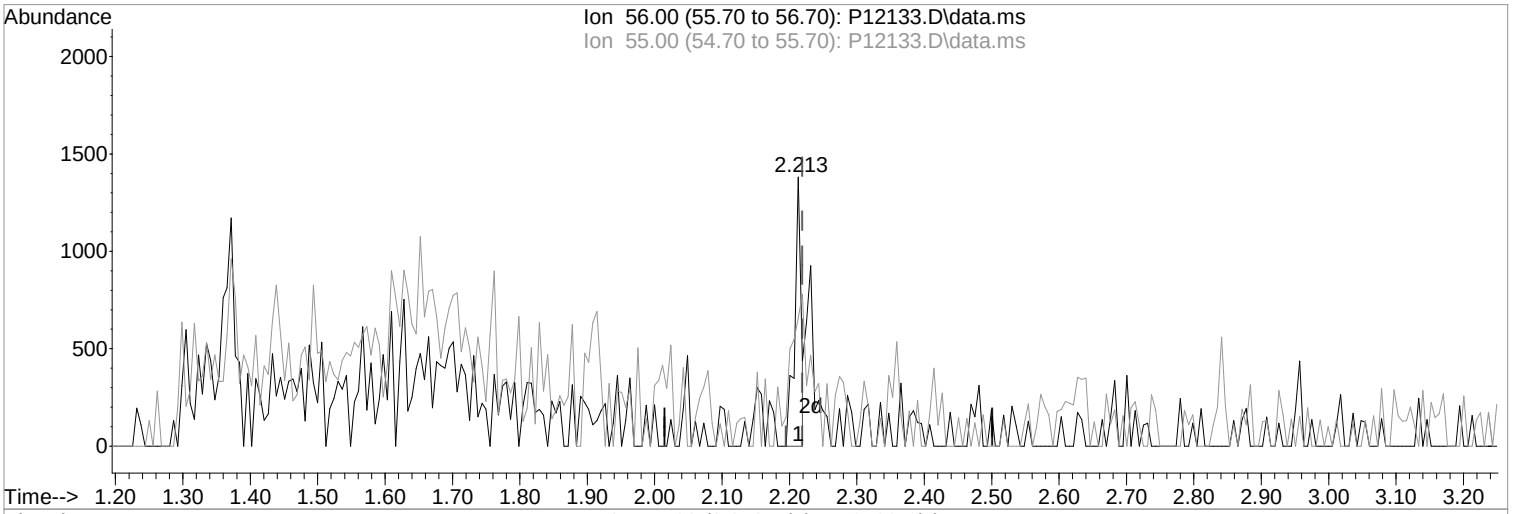
09/18/17

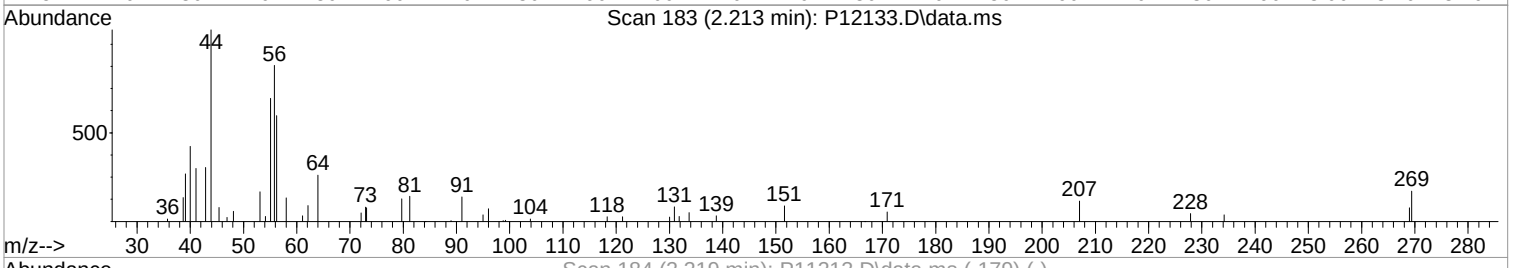
1st 09/18/17
2nd 09/20/17

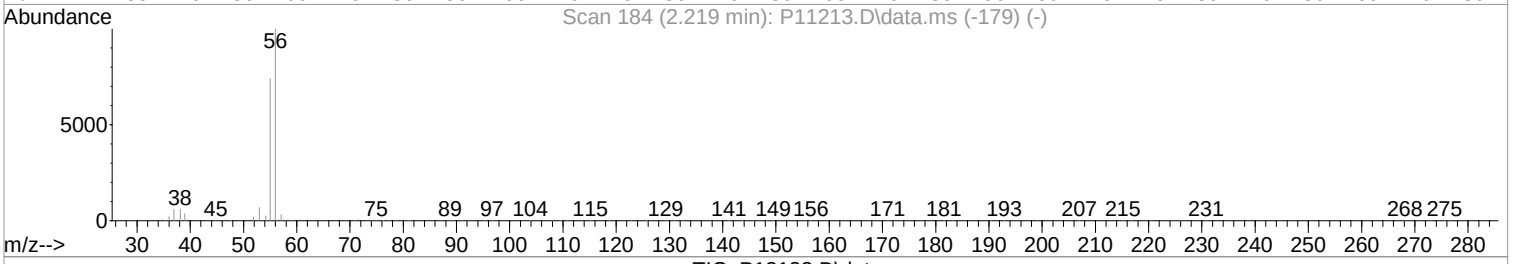
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 09:56:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12133.D\data.ms

(12) Acrolein

2.213min (-0.006) 0.75 ppb

response 925

Ion	Exp%	Act%
56.00	100	100
55.00	74.30	47.50#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

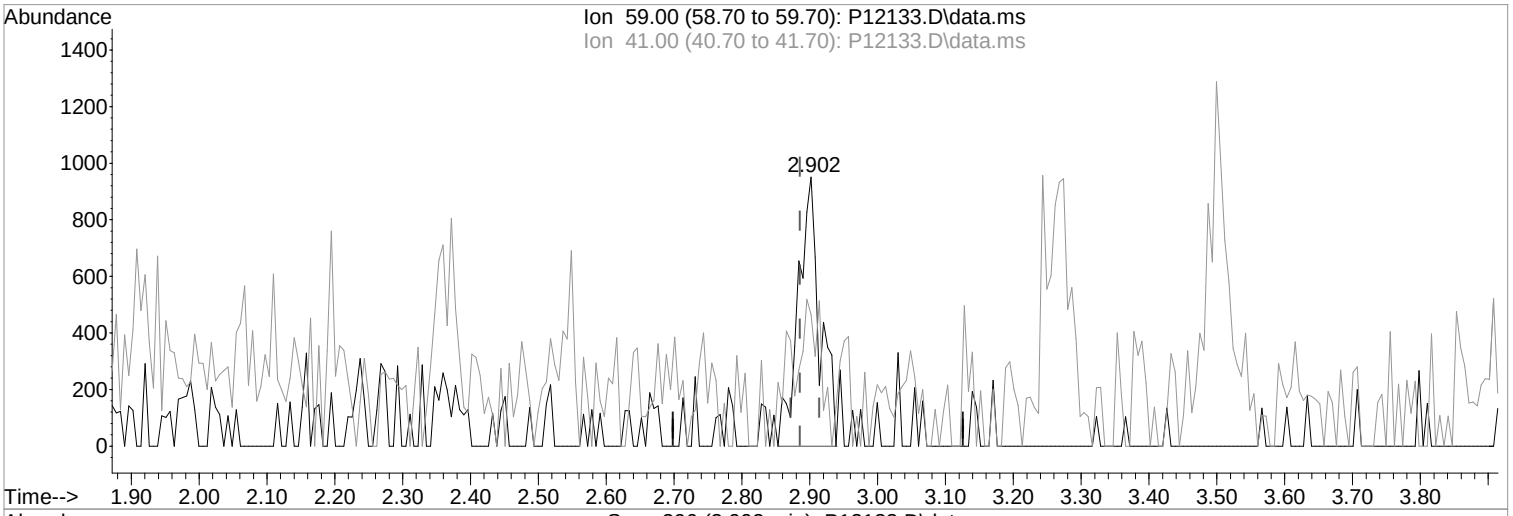
09/18/17

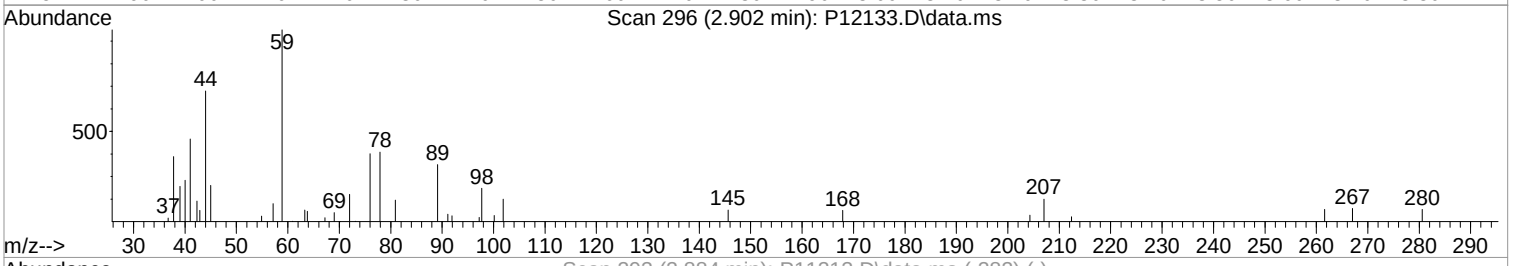
1st KR 09/18/17
2nd BA 09/20/17

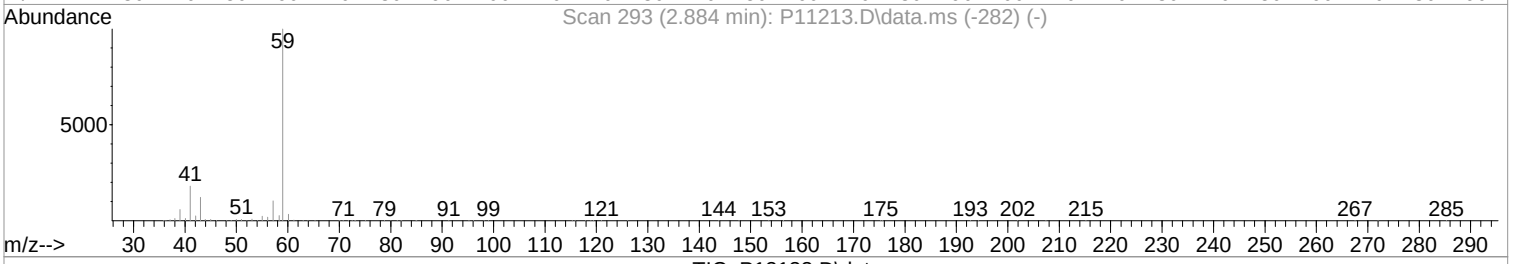
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 09:56:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12133.D\data.ms

(23) TBA

2.902min (+0.016) 2.19 ppb m

response 2119

Ion	Exp%	Act%
59.00	100	100
41.00	18.30	49.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

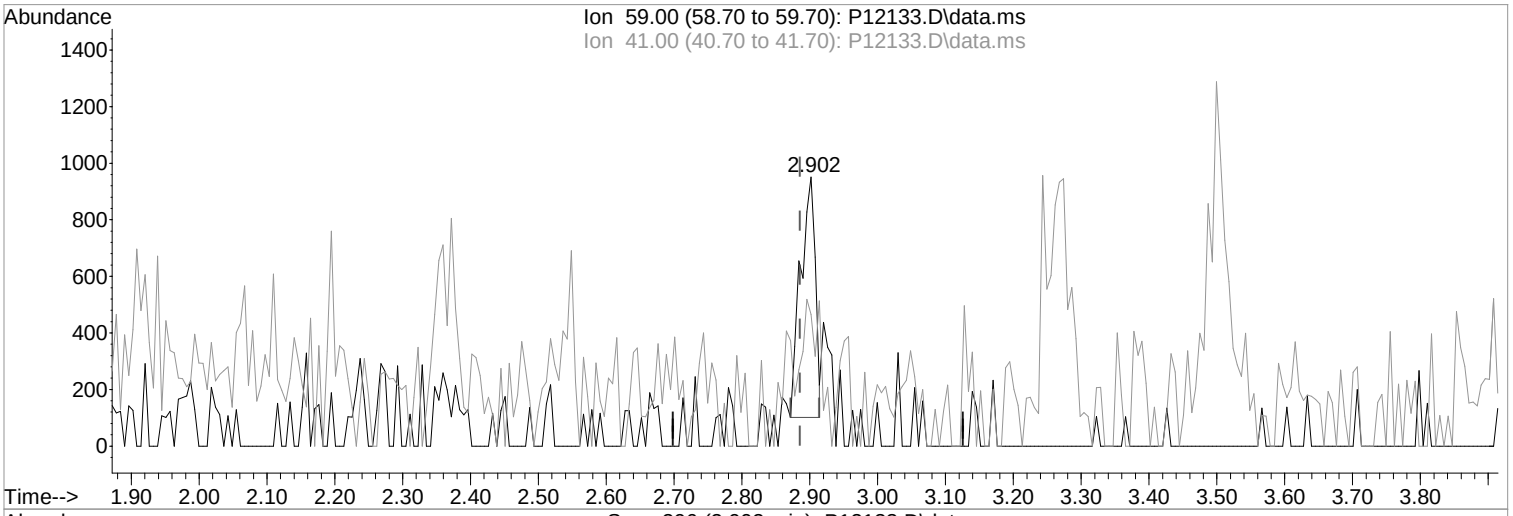
09/18/17

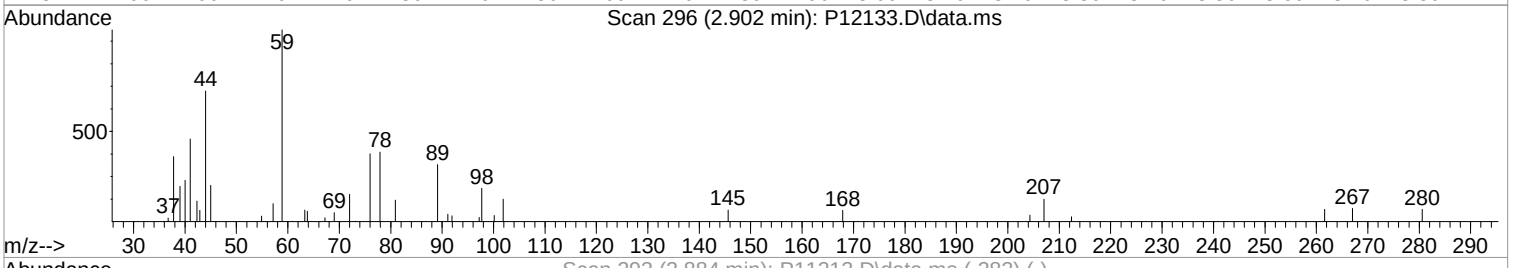
1st 09/18/17
2nd 09/20/17

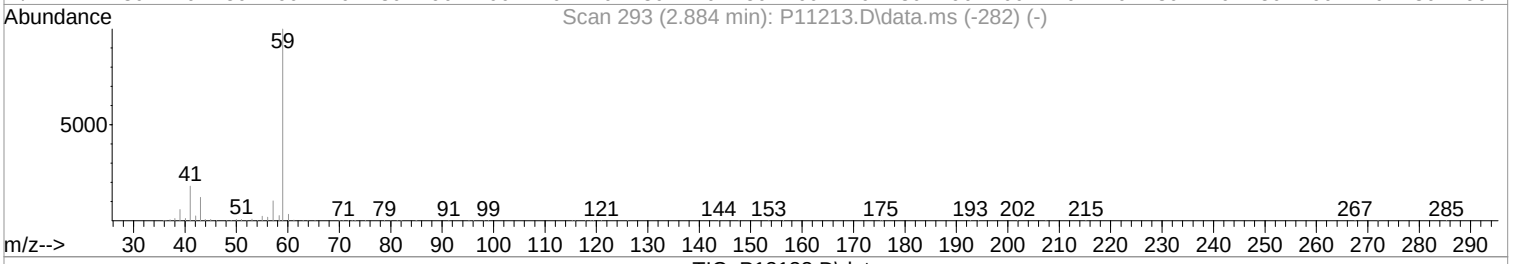
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 09:56:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12133.D\data.ms

(23) TBA

2.902min (+0.016) 1.34 ppb

response 1299

Ion	Exp%	Act%
59.00	100	100
41.00	18.30	49.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

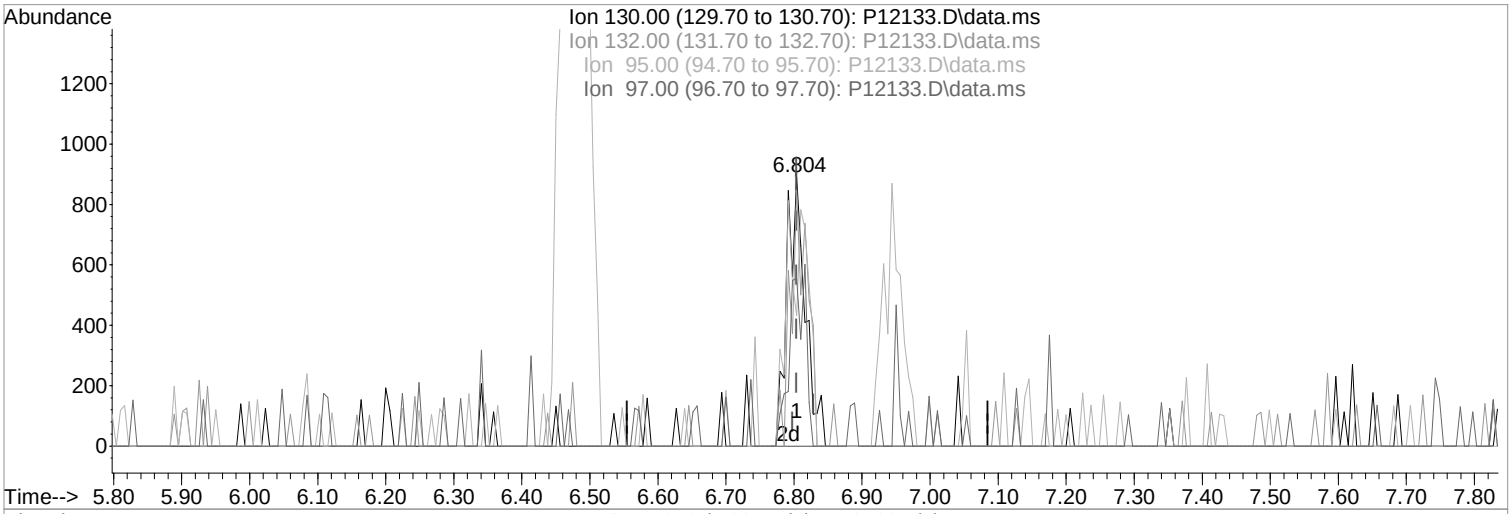
Before

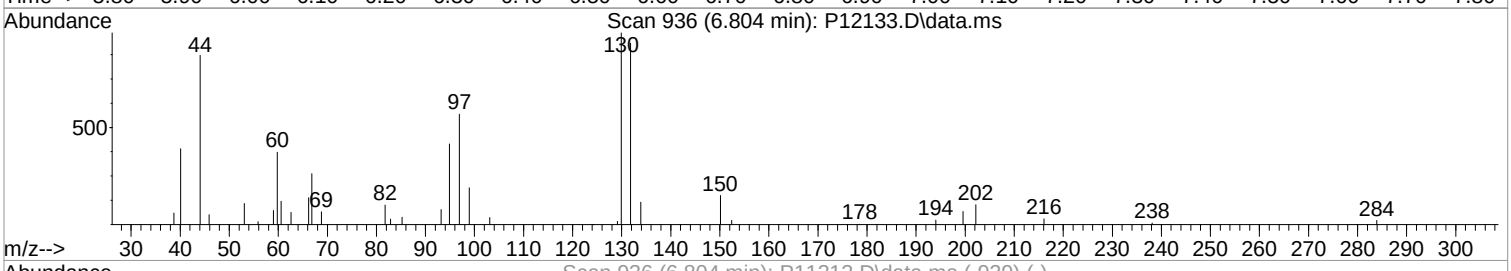
09/18/17

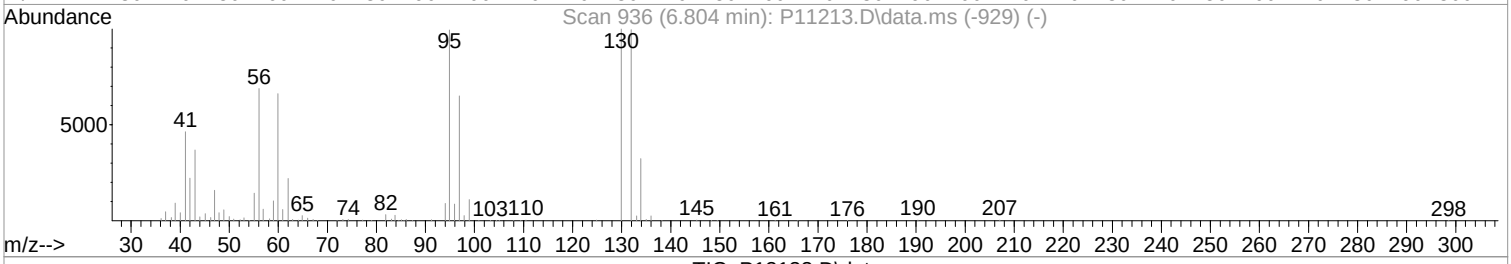
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 09:56:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12133.D\data.ms

(54) Trichloroethene (P)

6.804min (+0.000) 0.51 ppb m

response 1698

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	95.17
95.00	99.40	48.48#
97.00	65.10	62.29

Manual Integration:

After

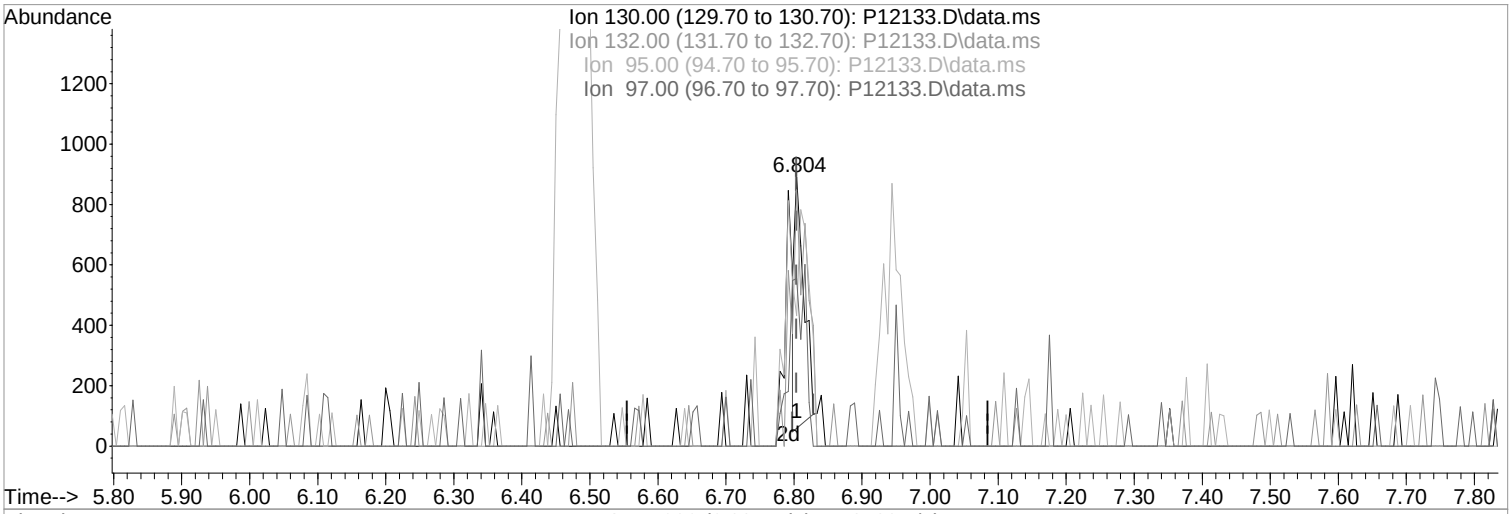
Split Peak

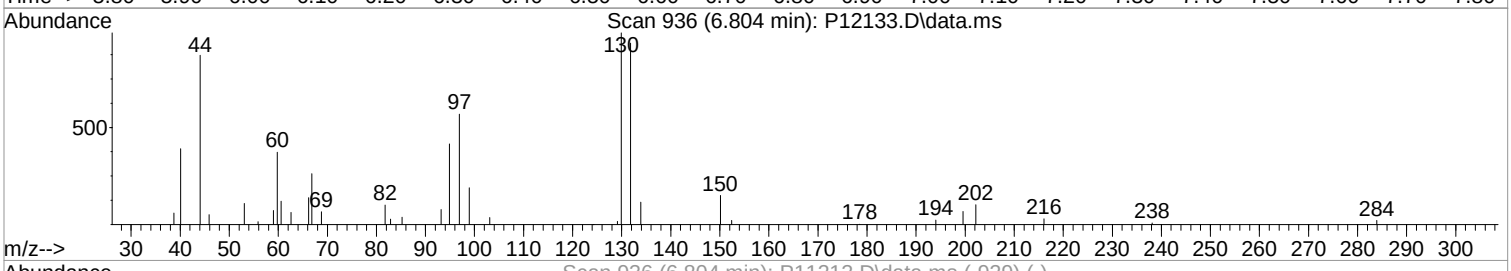
09/18/17

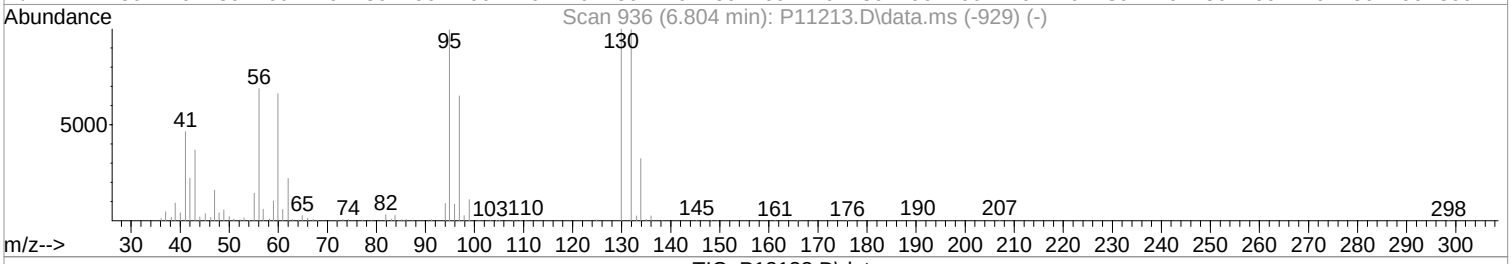
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 09:56:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12133.D\data.ms

(54) Trichloroethene (P)

6.804min (+0.000) 0.23 ppb

response 769

Ion	Exp%	Act%
130.00	100	100
132.00	100.00	95.17
95.00	99.40	48.48#
97.00	65.10	62.29

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 14:50:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

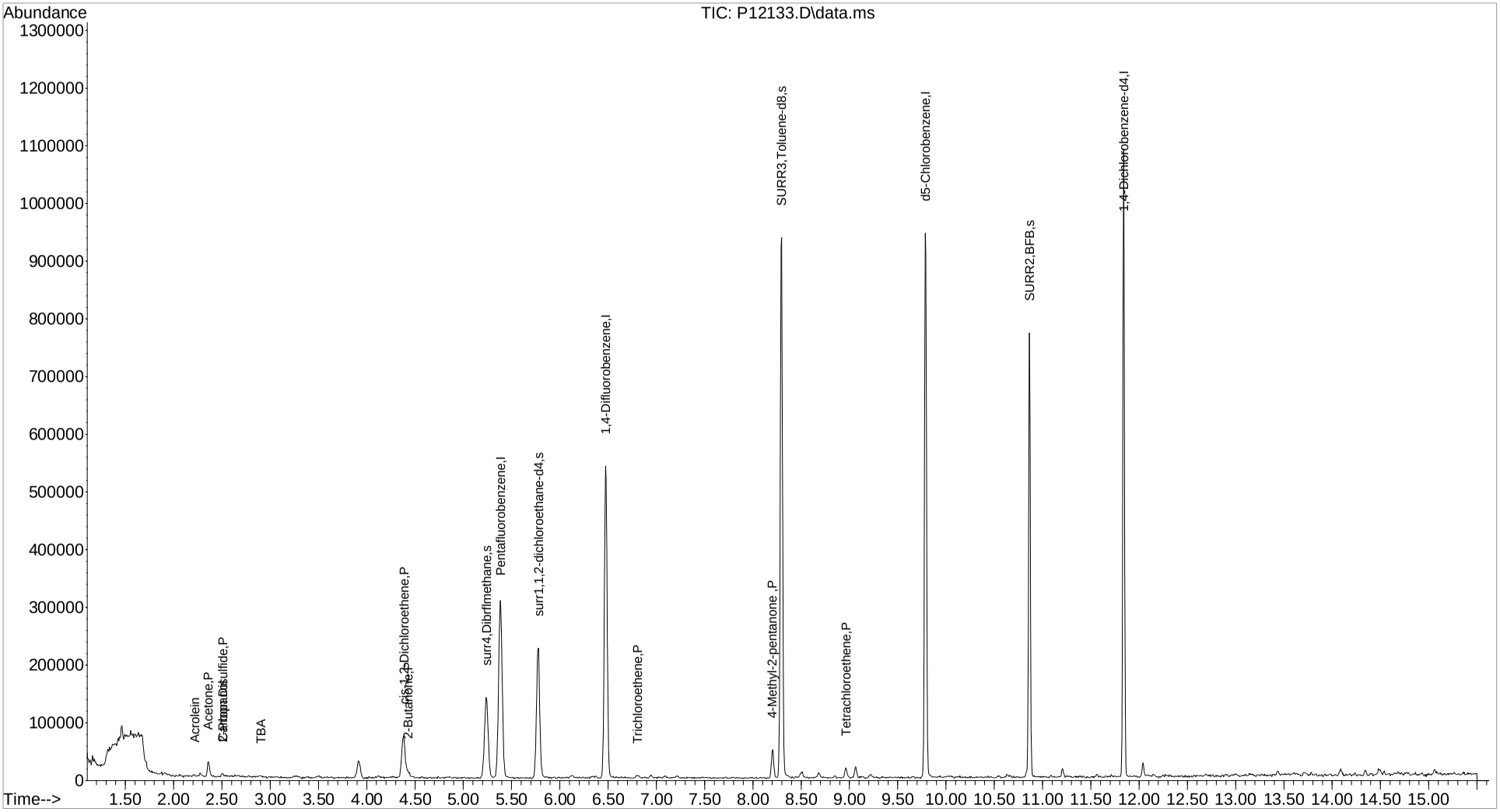
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	274794	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	434907	50.00	ppb		0.00
71) d5-Chlorobenzene	9.785	117	399645	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	194736	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	115465	47.61	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.22%				
48) surr1,1,2-dichloroetha...	5.779	65	174528	45.15	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.30%				
65) SURR3,Toluene-d8	8.297	98	548643	48.95	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.90%				
70) SURR2,BFB	10.864	95	207798	47.16	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.32%				
Target Compounds							Qvalue
12) Acrolein	2.213	56	1773m	1.44	ppb		
15) Acetone	2.359	43	26010	7.77	ppb		95
16) 2-Propanol	2.512	45	4262	6.13	ppb		82
18) Carbon Disulfide	2.506	76	3068	0.39	ppb		77
23) TBA	2.902	59	2119m	2.19	ppb		
34) cis-1,2-Dichloroethene	4.383	96	37991	10.50	ppb	#	57
35) 2-Butanone	4.426	43	19124	4.45	ppb		86
54) Trichloroethene	6.804	130	1698m	0.51	ppb		
64) 4-Methyl-2-pentanone	8.200	43	33515	4.56	ppb		83
72) Tetrachloroethene	8.962	164	3243	1.32	ppb	#	65

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

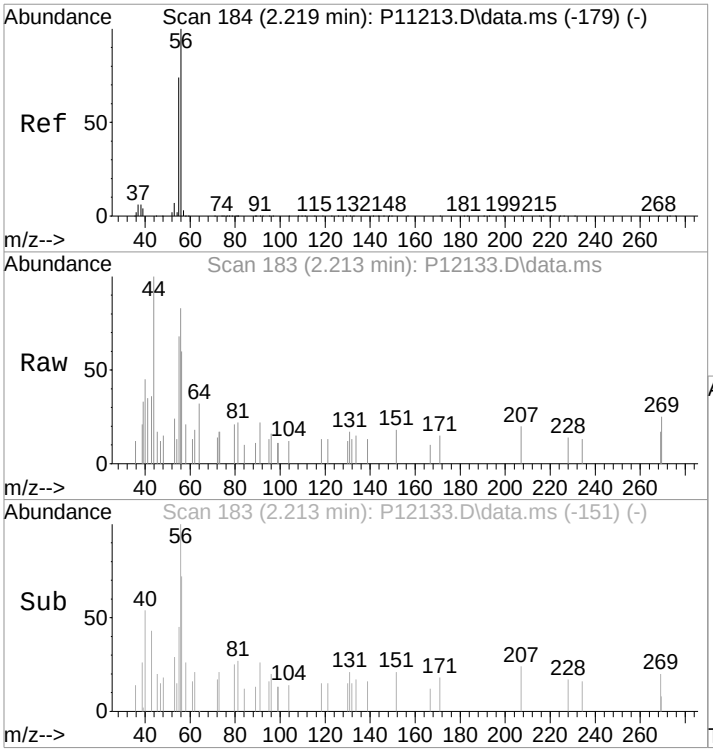
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12133.D
Acq On : 16 Sep 2017 3:55 am
Operator : K.Ruest
Sample : R1708647-013|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 18 14:50:08 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



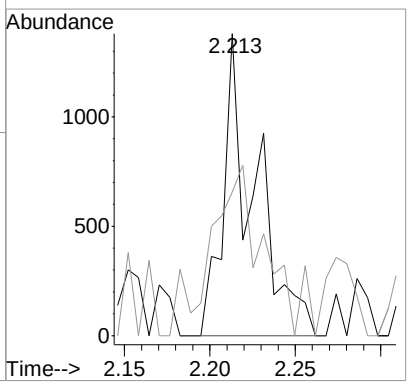
1st 09/18/17
2nd 09/20/17

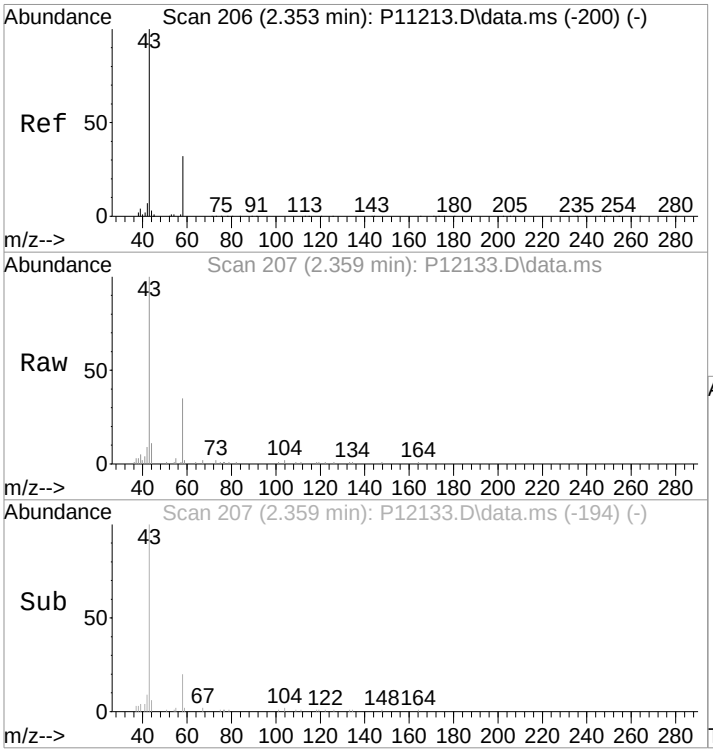


#12
Acrolein
Concen: 1.44 ppb m
RT: 2.213 min Scan# 183
Delta R.T. -0.006 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 56 Resp: 1773

Ion	Ratio	Lower	Upper
56	100		
55	81.6	54.3	94.3

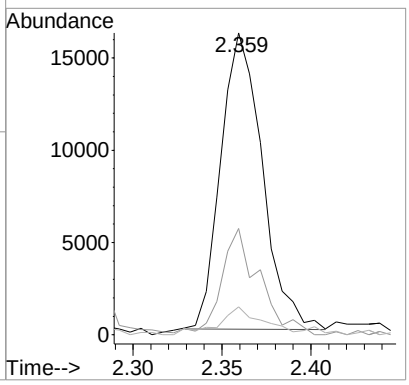


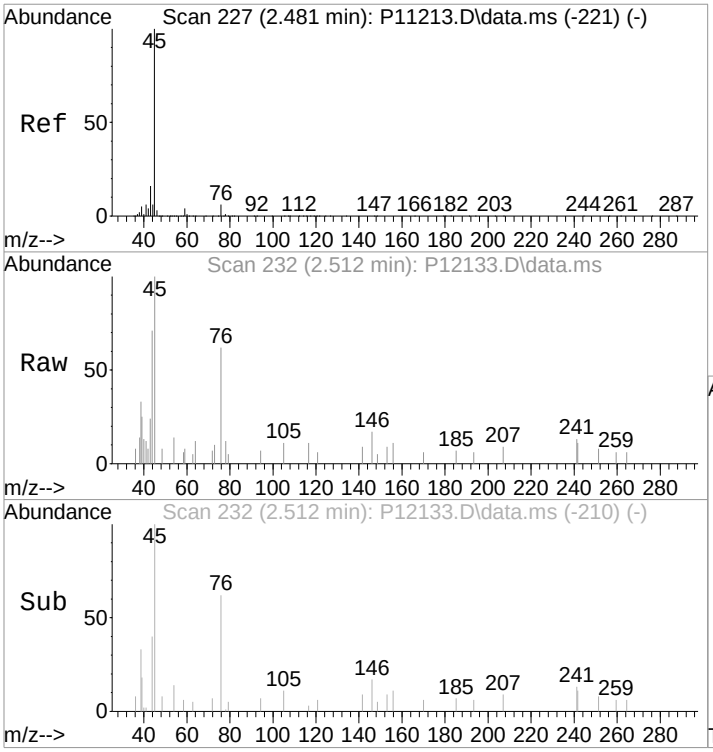


#15
Acetone
Concen: 7.77 ppb
RT: 2.359 min Scan# 207
Delta R.T. 0.002 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 43 Resp: 26010

Ion	Ratio	Lower	Upper
43	100		
58	35.2	12.3	52.3
42	9.3	0.0	27.4

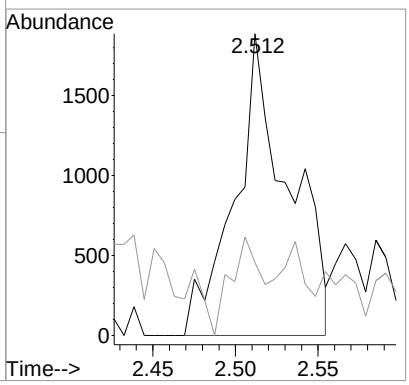


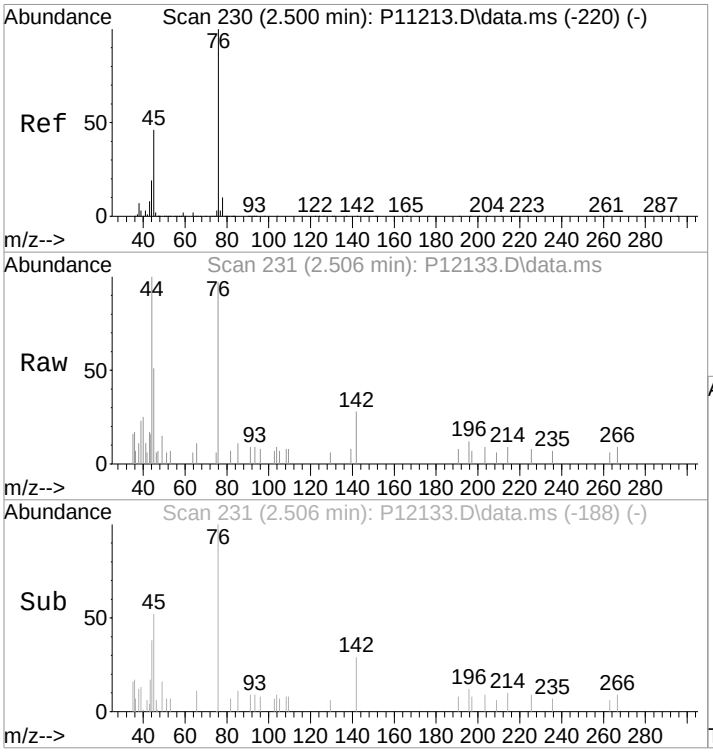


#16
2-Propanol
Concen: 6.13 ppb
RT: 2.512 min Scan# 232
Delta R.T. 0.023 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 45 Resp: 4262

Ion	Ratio	Lower	Upper
45	100		
43	24.2	0.0	36.5

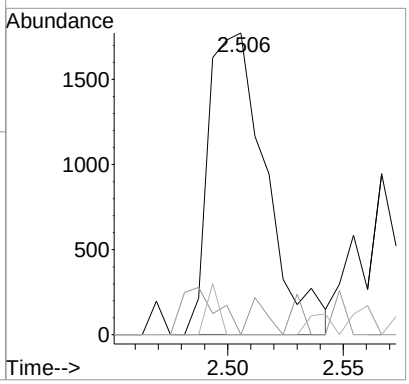


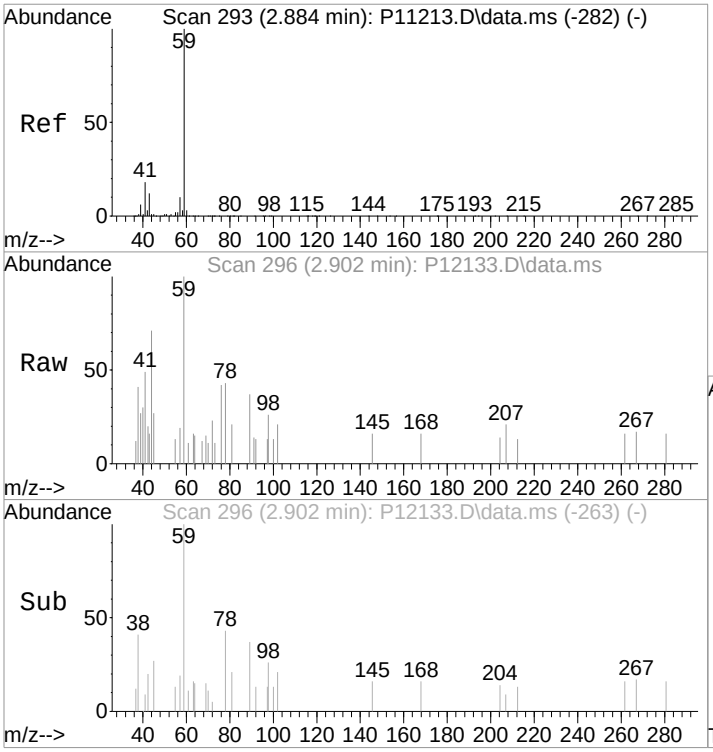


#18
Carbon Disulfide
Concen: 0.39 ppb
RT: 2.506 min Scan# 231
Delta R.T. 0.006 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 76 Resp: 3068

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	29.8
77	0.0	0.0	22.6

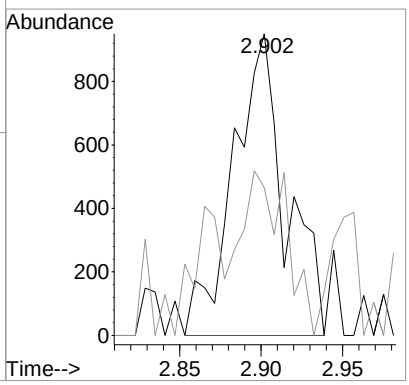


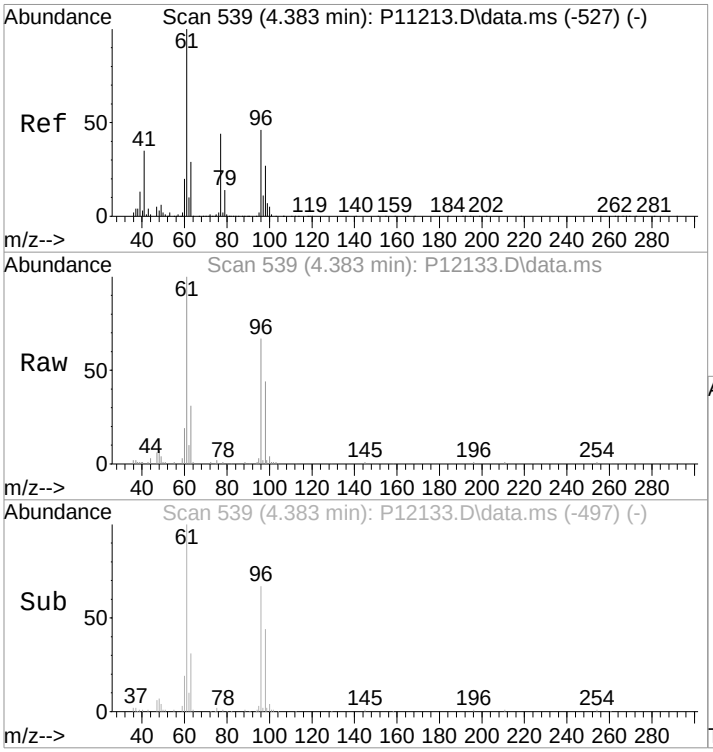


#23
TBA
Concen: 2.19 ppb m
RT: 2.902 min Scan# 296
Delta R.T. 0.016 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 59 Resp: 2119

Ion	Ratio	Lower	Upper
59	100		
41	49.0	0.0	38.3#

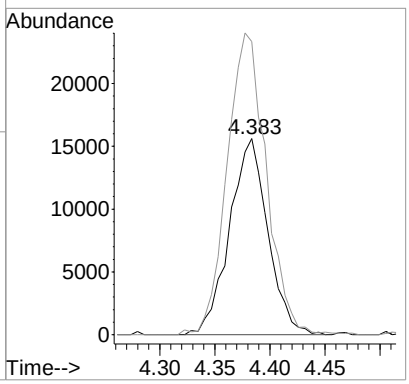


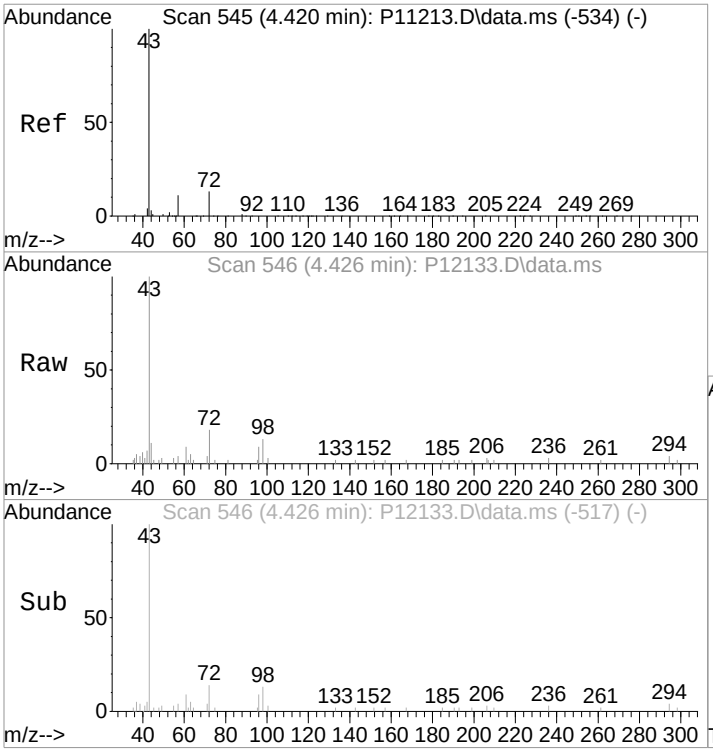


#34
cis-1,2-Dichloroethene
Concen: 10.50 ppb
RT: 4.383 min Scan# 539
Delta R.T. -0.002 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 96 Resp: 37991

Ion	Ratio	Lower	Upper
96	100		
61	149.4	197.5	237.5#

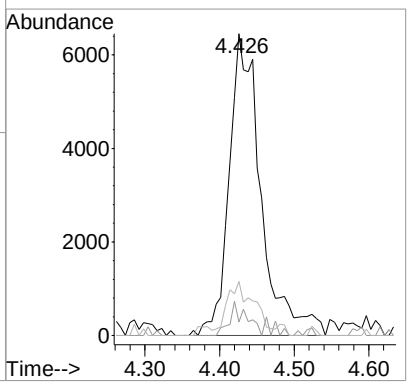


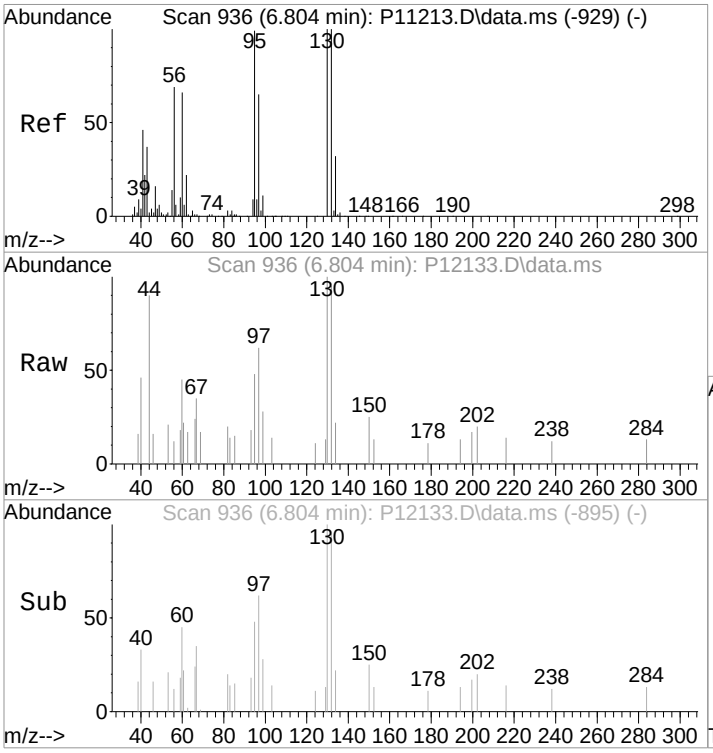


#35
2-Butanone
Concen: 4.45 ppb
RT: 4.426 min Scan# 546
Delta R.T. -0.047 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 43 Resp: 19124

Ion	Ratio	Lower	Upper
43	100		
57	4.5	0.0	31.5
72	18.0	0.0	33.7

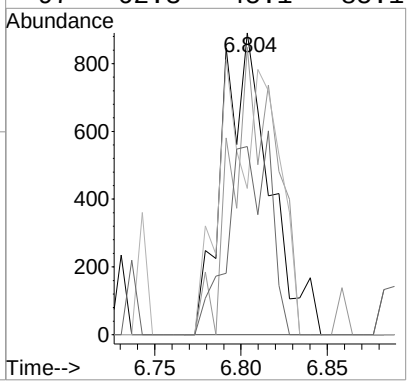


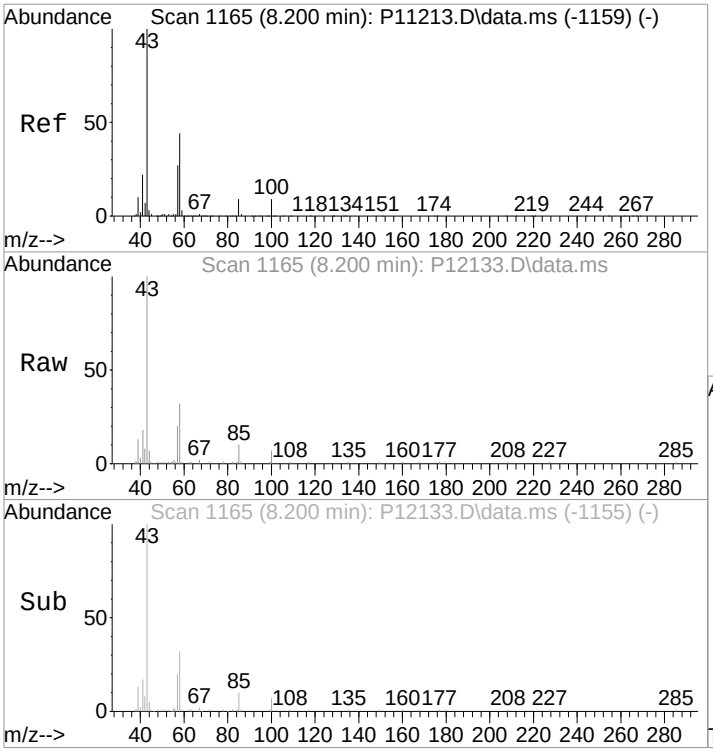


#54
Trichloroethene
Concen: 0.51 ppb m
RT: 6.804 min Scan# 936
Delta R.T. 0.000 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion:130 Resp: 1698

Ion	Ratio	Lower	Upper
130	100		
132	95.2	80.0	120.0
95	48.5	79.4	119.4#
97	62.3	45.1	85.1

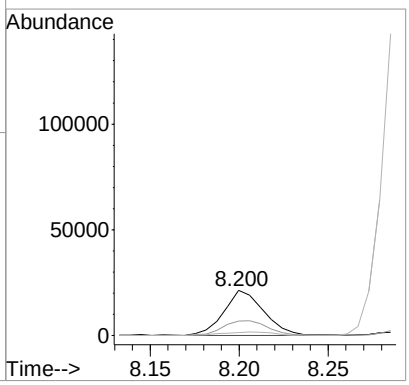


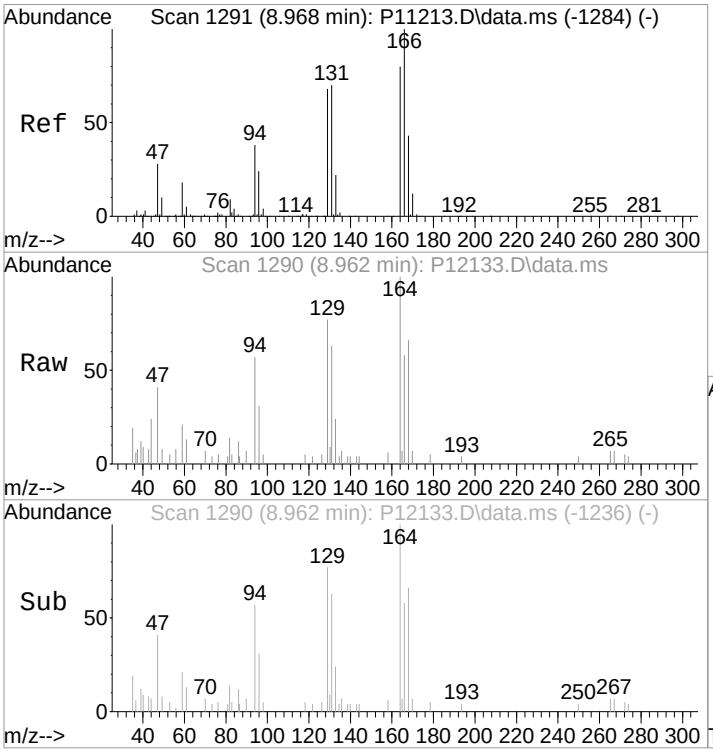


#64
4-Methyl-2-pentanone
Concen: 4.56 ppb
RT: 8.200 min Scan# 1165
Delta R.T. -0.002 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion: 43 Resp: 33515

Ion	Ratio	Lower	Upper
43	100		
58	32.0	24.2	64.2
100	6.7	0.0	28.9

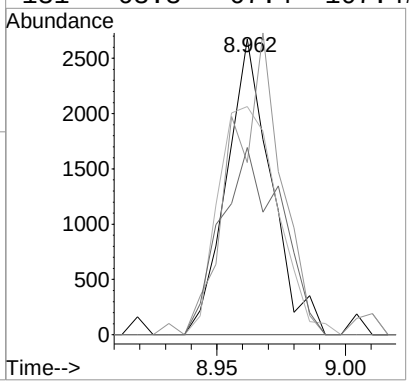




#72
Tetrachloroethene
Concen: 1.32 ppb
RT: 8.962 min Scan# 1290
Delta R.T. -0.000 min
Lab File: P12133.D
Acq: 16 Sep 2017 3:55 am

Tgt Ion:164 Resp: 3243

Ion	Ratio	Lower	Upper
164	100		
166	58.3	105.1	145.1#
129	77.2	65.3	105.3
131	63.3	67.4	107.4#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12134.D
Acq On : 16 Sep 2017 4:17 am
Operator : K.Ruest
Sample : R1708647-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Sep 18 14:52:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

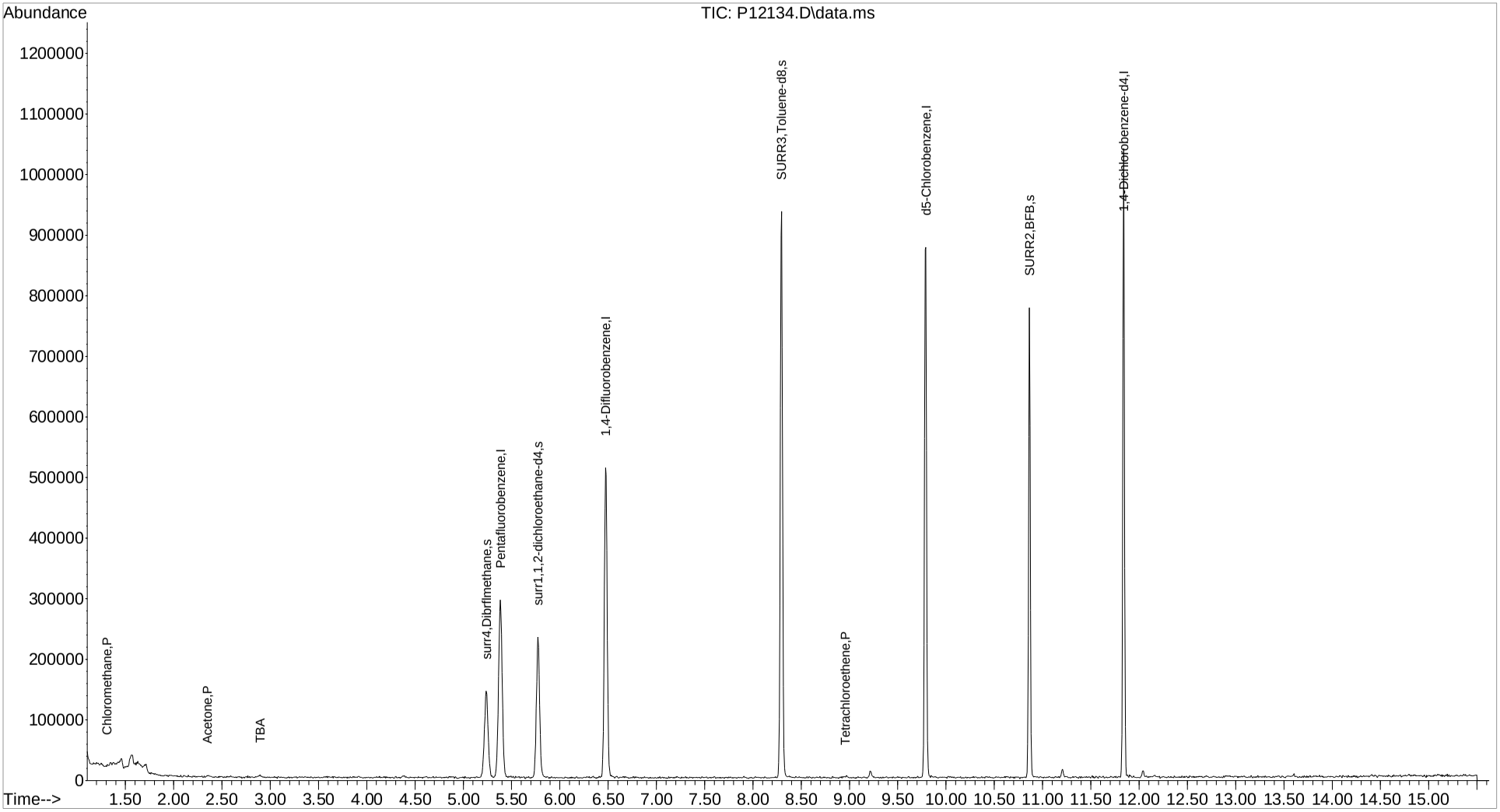
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	251125	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	413463	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	371277	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	185608	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	117074	50.77	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.54%				
48) surr1,1,2-dichloroetha...	5.773	65	178651	48.61	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.22%				
65) SURR3,Toluene-d8	8.297	98	533040	50.03	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.06%				
70) SURR2,BFB	10.864	95	200594	47.89	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.78%				
Target Compounds							Qvalue
3) Chloromethane	1.305	50	1375	0.21	ppb		91
15) Acetone	2.347	43	4142	1.35	ppb		90
23) TBA	2.896	59	1485	1.68	ppb		74
72) Tetrachloroethene	8.955	164	744	0.33	ppb	#	35

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

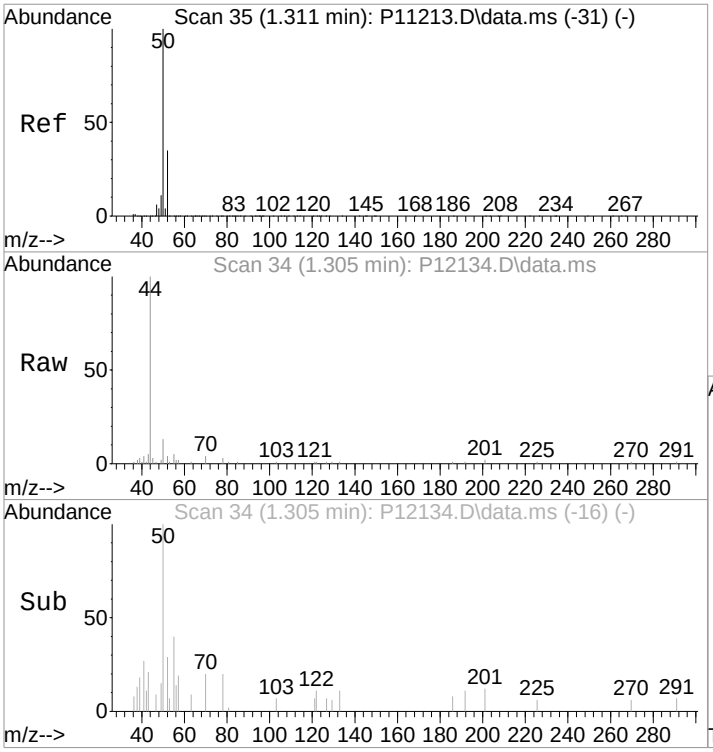
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12134.D
Acq On : 16 Sep 2017 4:17 am
Operator : K.Ruest
Sample : R1708647-014|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Sep 18 14:52:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



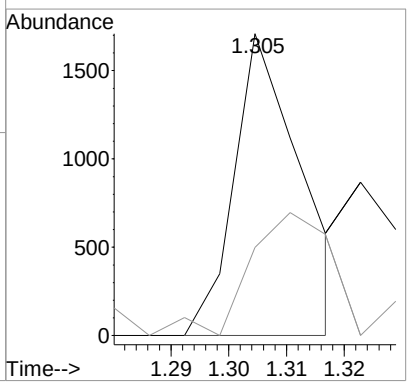
1st 09/18/17
2nd 09/20/17

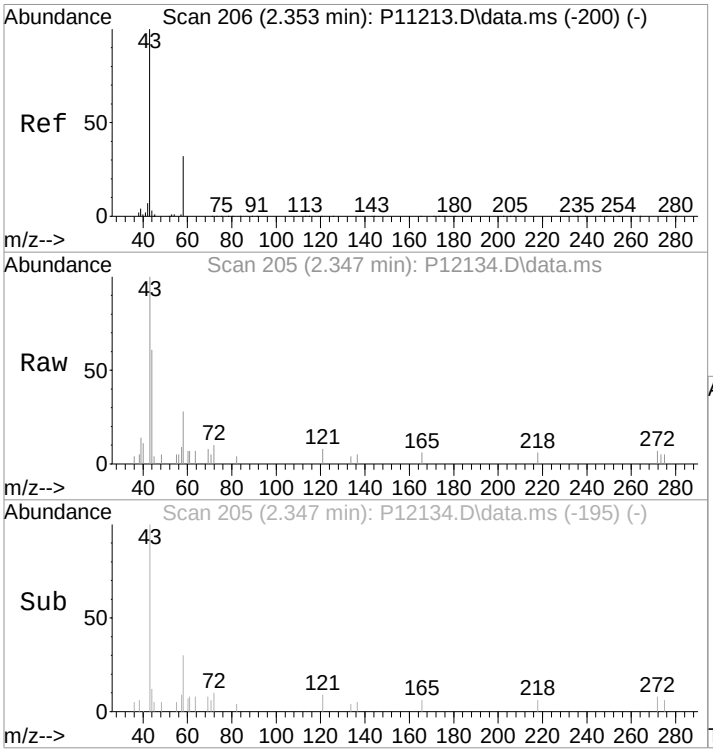


#3
Chloromethane
Concen: 0.21 ppb
RT: 1.305 min Scan# 34
Delta R.T. -0.004 min
Lab File: P12134.D
Acq: 16 Sep 2017 4:17 am

Tgt Ion: 50 Resp: 1375

Ion	Ratio	Lower	Upper
50	100		
52	29.2	14.5	54.5

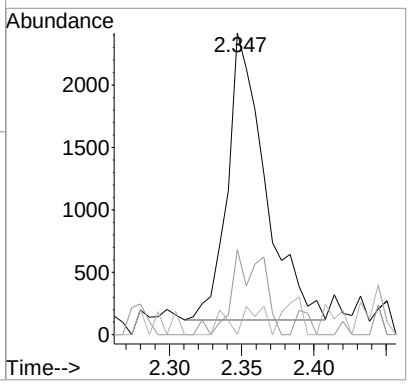


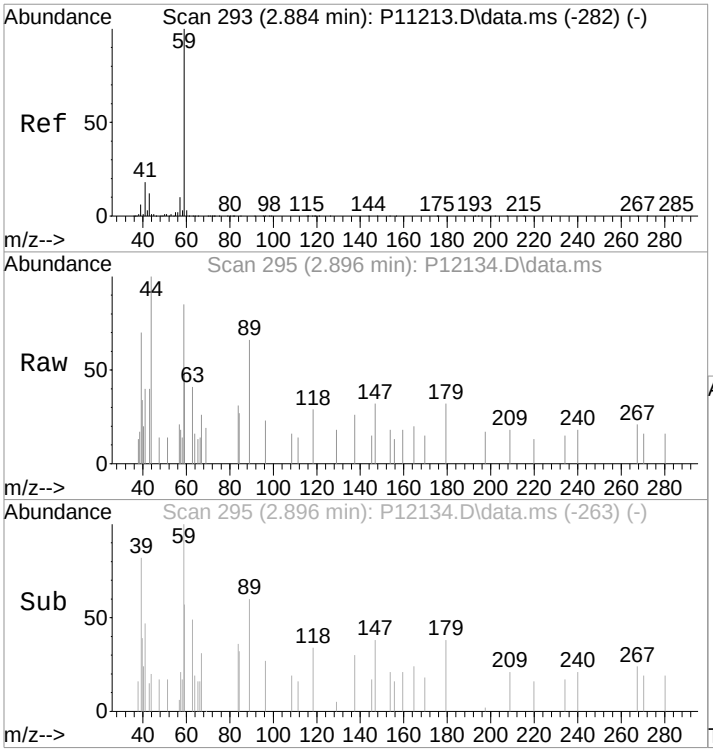


#15
Acetone
Concen: 1.35 ppb
RT: 2.347 min Scan# 205
Delta R.T. -0.010 min
Lab File: P12134.D
Acq: 16 Sep 2017 4:17 am

Tgt Ion: 43 Resp: 4142

Ion	Ratio	Lower	Upper
43	100		
58	28.2	12.3	52.3
42	0.0	0.0	27.4

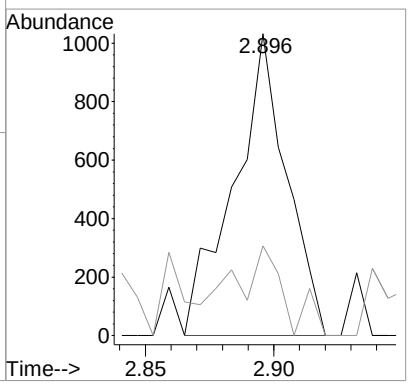


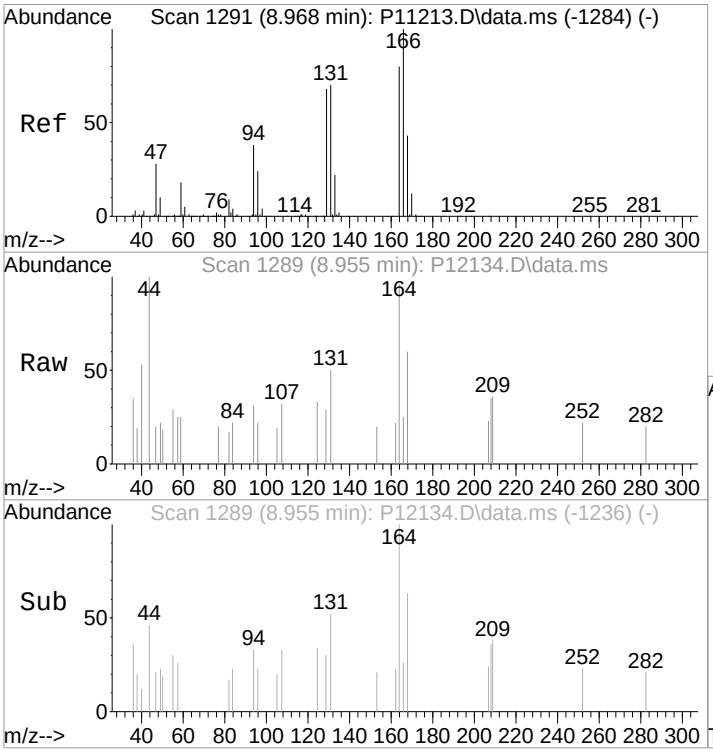


#23
TBA
Concen: 1.68 ppb
RT: 2.896 min Scan# 295
Delta R.T. 0.010 min
Lab File: P12134.D
Acq: 16 Sep 2017 4:17 am

Tgt Ion: 59 Resp: 1485

Ion	Ratio	Lower	Upper
59	100		
41	29.7	0.0	38.3

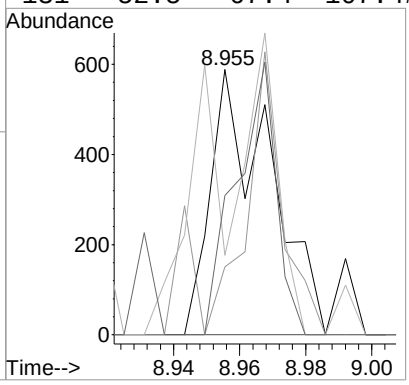




#72
Tetrachloroethene
Concen: 0.33 ppb
RT: 8.955 min Scan# 1289
Delta R.T. -0.006 min
Lab File: P12134.D
Acq: 16 Sep 2017 4:17 am

Tgt Ion:164 Resp: 744

Ion	Ratio	Lower	Upper
164	100		
166	25.6	105.1	145.1#
129	29.9	65.3	105.3#
131	52.5	67.4	107.4#

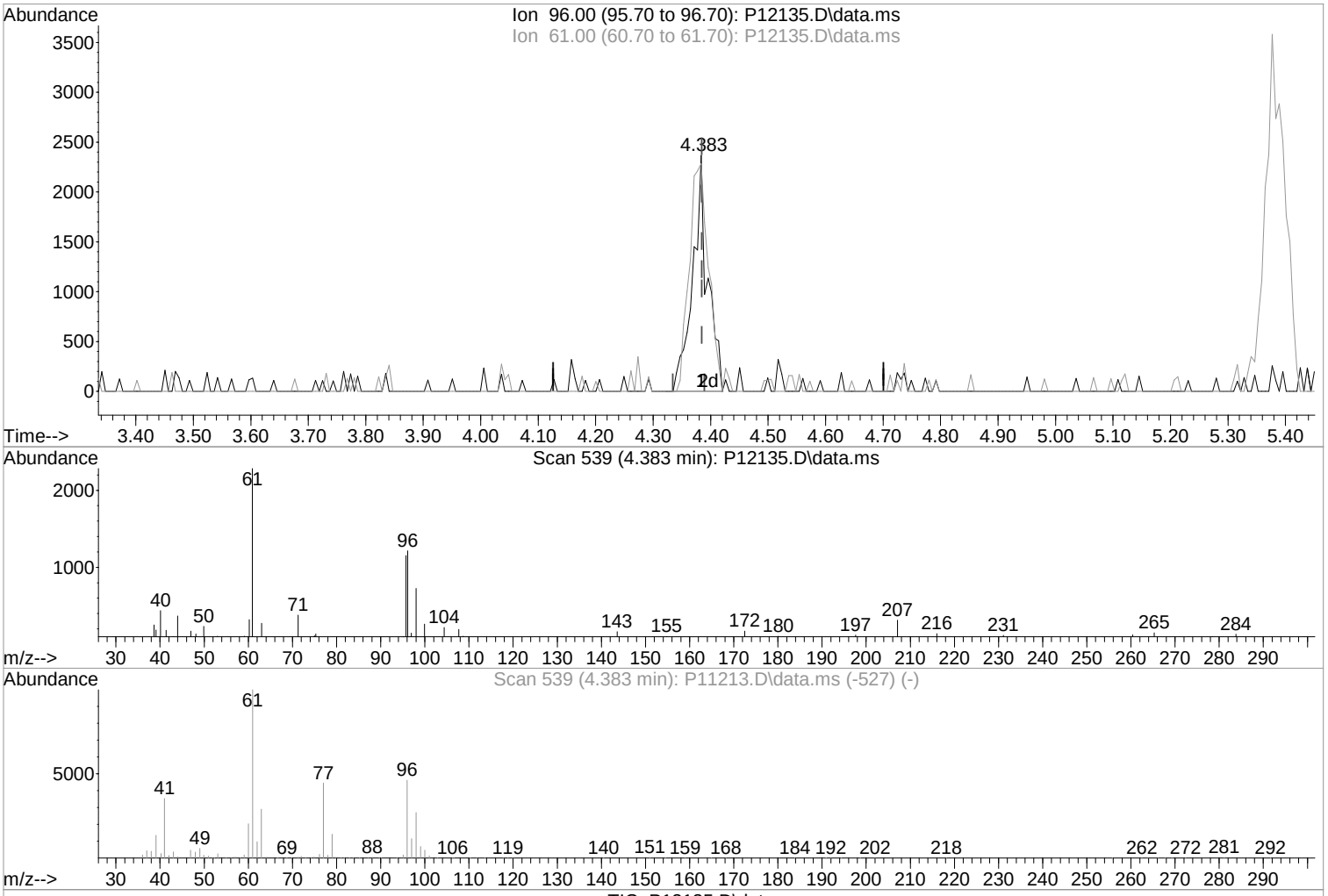


1st 09/18/17
2nd 09/20/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12135.D
Acq On : 16 Sep 2017 4:39 am
Operator : K.Ruest
Sample : R1708647-015|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 18 09:57:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12135.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.383min (-0.002) 1.31 ppb m

response 4300

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	188.07#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

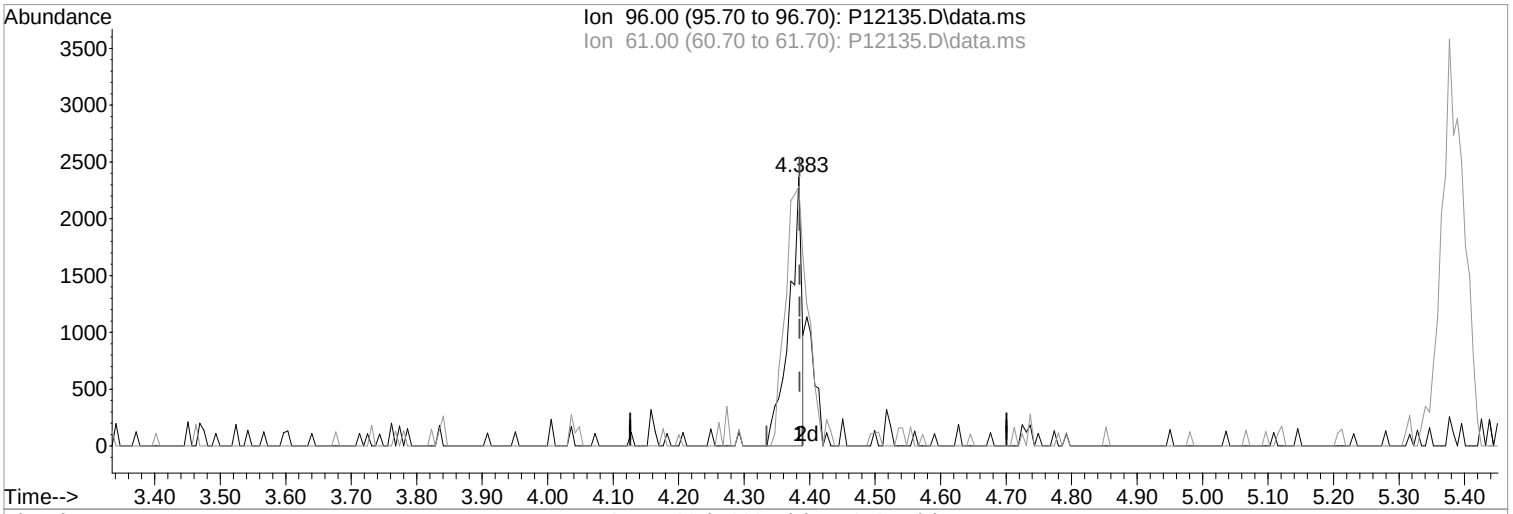
Split Peak

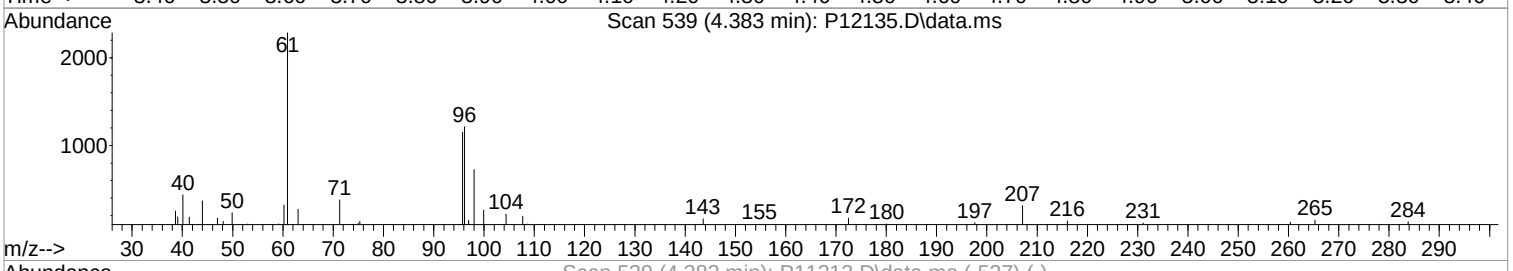
09/18/17

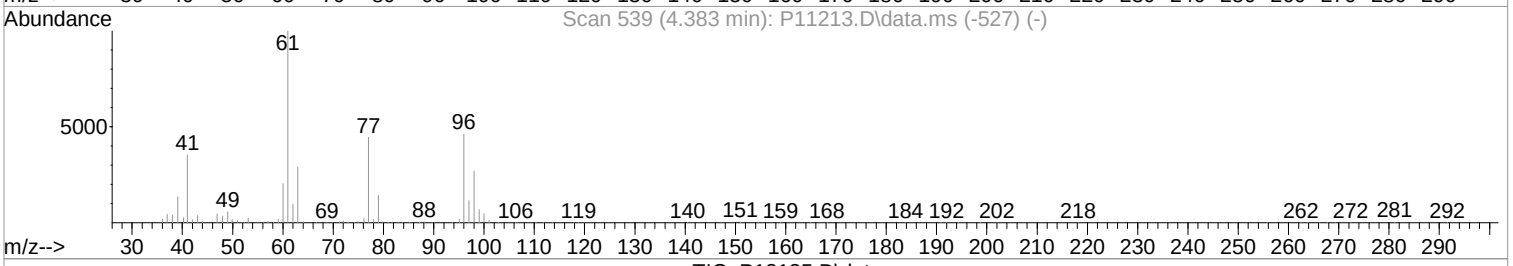
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12135.D
Acq On : 16 Sep 2017 4:39 am
Operator : K.Ruest
Sample : R1708647-015|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 18 09:57:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12135.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.383min (-0.002) 0.96 ppb

response 3142

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	96.49#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

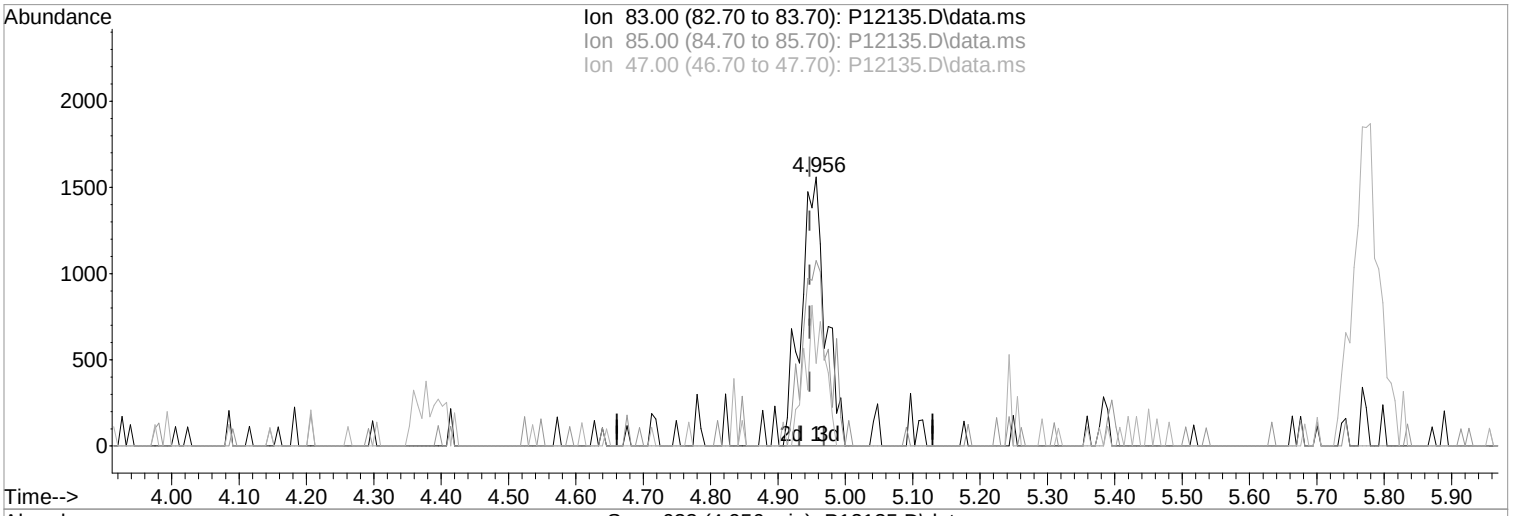
Before

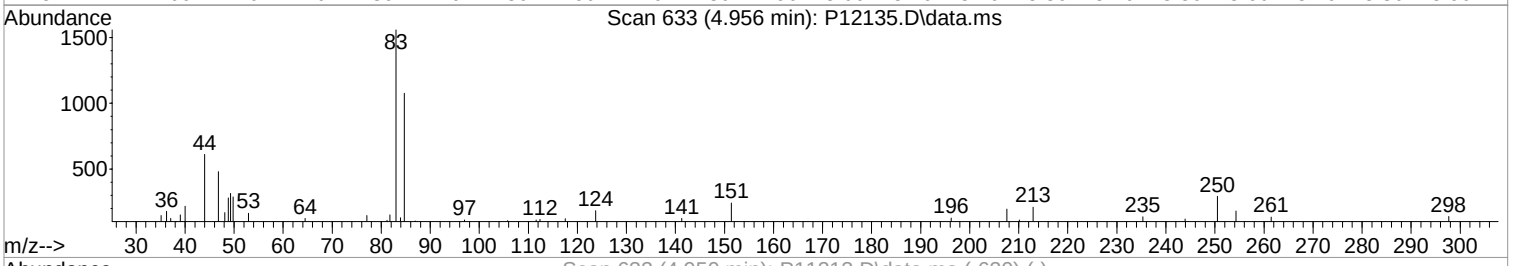
09/18/17

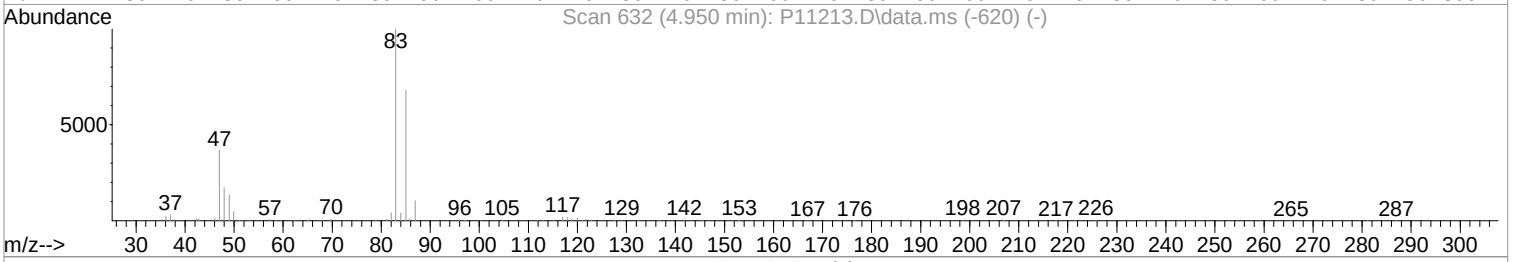
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12135.D
Acq On : 16 Sep 2017 4:39 am
Operator : K.Ruest
Sample : R1708647-015|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 18 09:57:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12135.D\data.ms

(40) Chloroform (P)

4.956min (+0.009) 0.78 ppb m

response 3933

Ion	Exp%	Act%
83.00	100	100
85.00	68.00	68.97
47.00	36.70	30.77
0.00	0.00	0.00

Manual Integration:

After

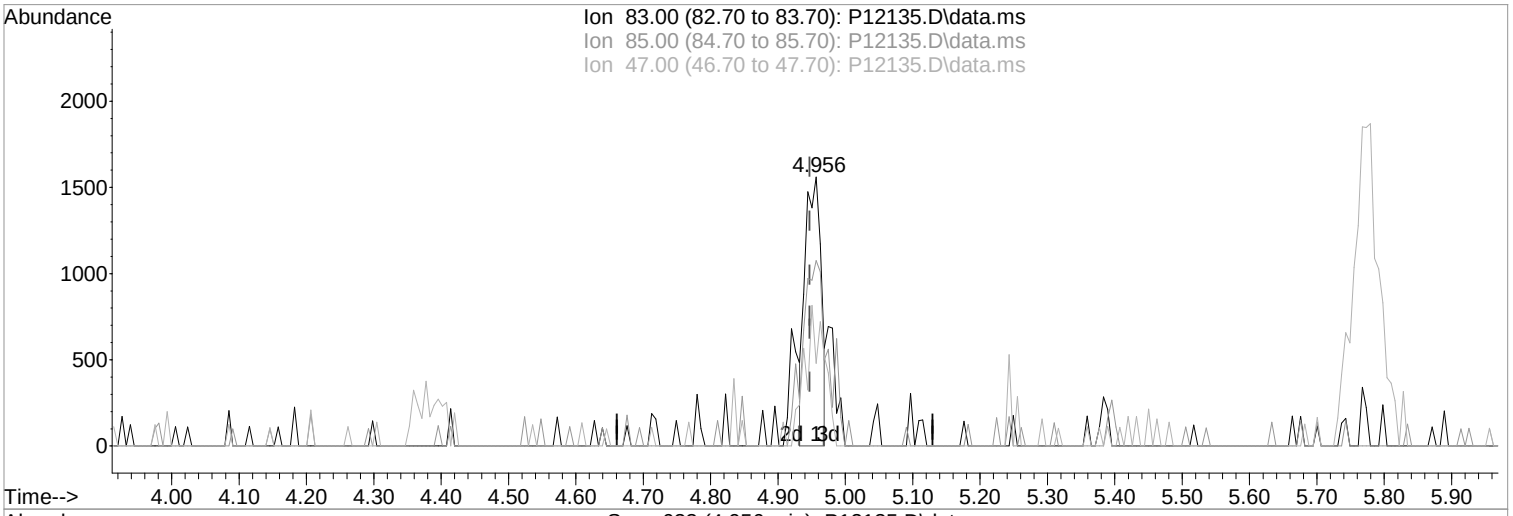
Split Peak

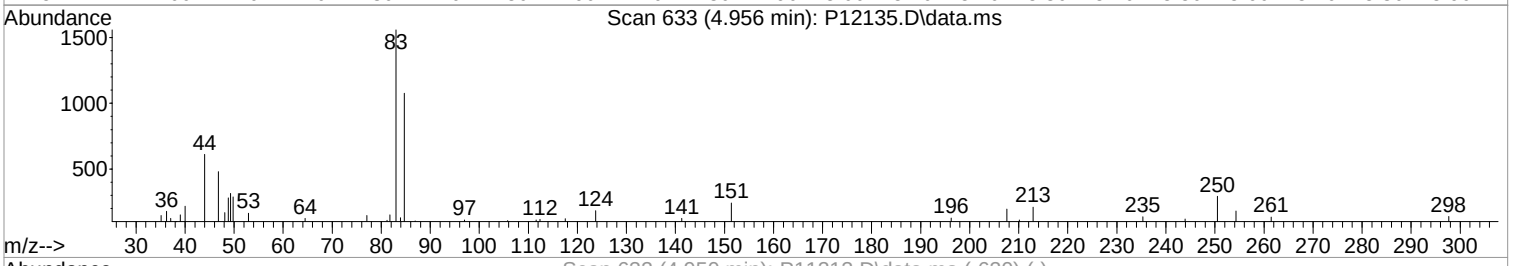
09/18/17

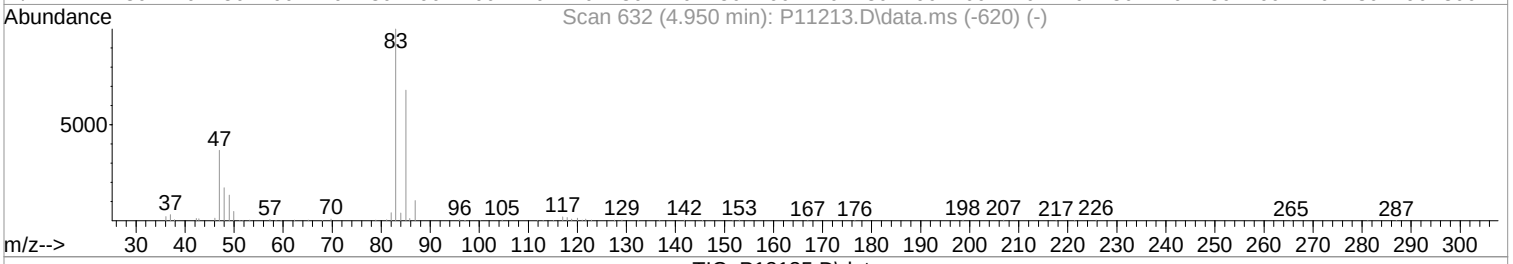
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12135.D
Acq On : 16 Sep 2017 4:39 am
Operator : K.Ruest
Sample : R1708647-015|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 18 09:57:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12135.D\data.ms

(40) Chloroform (P)

4.956min (+0.009) 0.51 ppb

response 2572

Ion	Exp%	Act%
83.00	100	100
85.00	68.00	68.97
47.00	36.70	30.77
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12135.D
Acq On : 16 Sep 2017 4:39 am
Operator : K.Ruest
Sample : R1708647-015|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 18 14:54:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

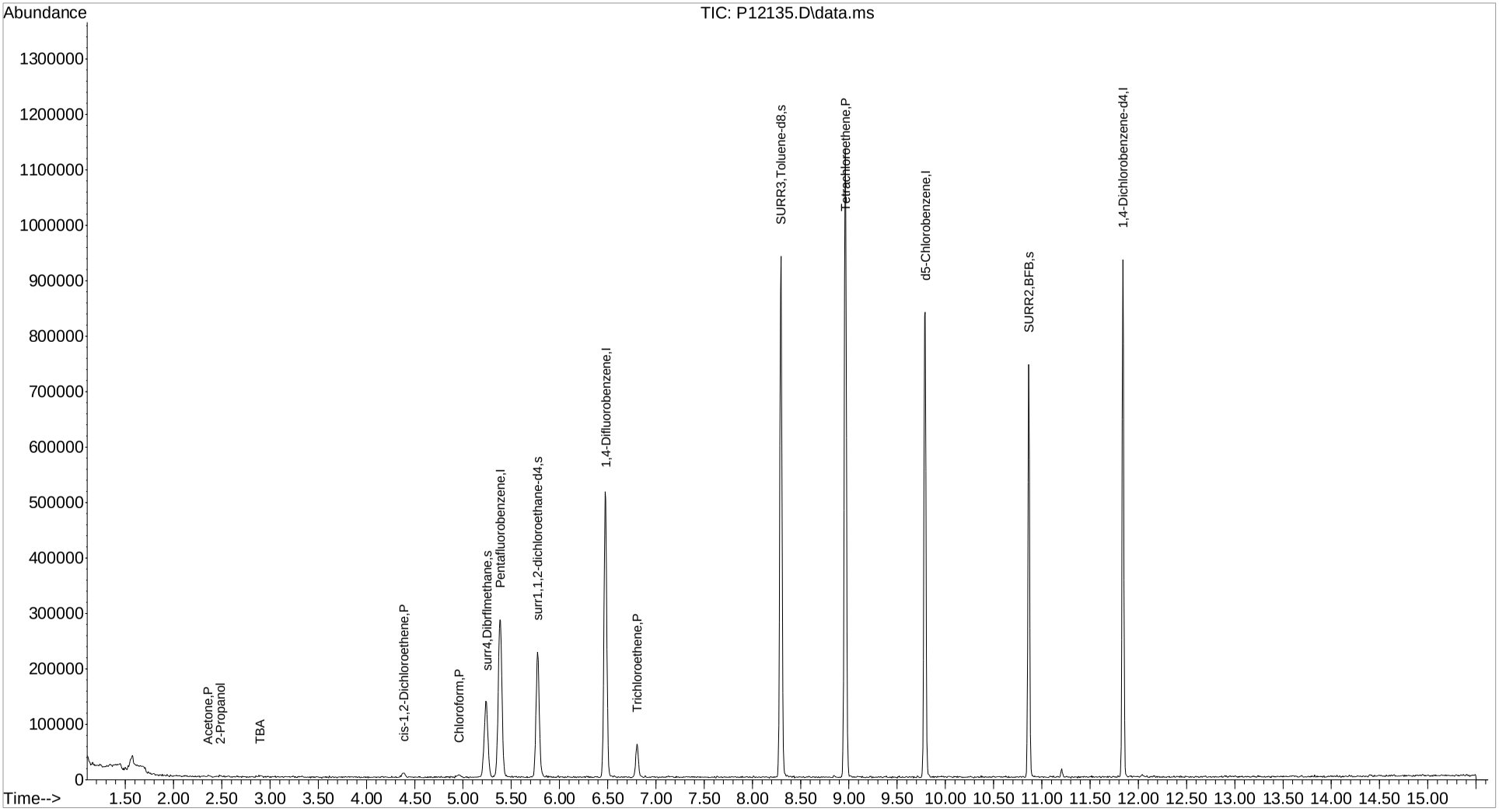
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	248957	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.481	114	410057	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	362572	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	170346	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	114490	50.07	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.14%				
48) surr1,1,2-dichloroetha...	5.773	65	176034	48.29	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.58%				
65) SURR3,Toluene-d8	8.297	98	530792	50.23	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.46%				
70) SURR2,BFB	10.864	95	197716	47.59	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.18%				
Target Compounds							Qvalue
15) Acetone	2.353	43	1854	0.61	ppb		93
16) 2-Propanol	2.481	45	1312	2.08	ppb		62
23) TBA	2.896	59	1064	1.22	ppb	#	1
34) cis-1,2-Dichloroethene	4.383	96	4300m	1.31	ppb		
40) Chloroform	4.956	83	3933m	0.78	ppb		
54) Trichloroethene	6.804	130	19806	6.35	ppb		97
72) Tetrachloroethene	8.962	164	219666	98.48	ppb		93

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

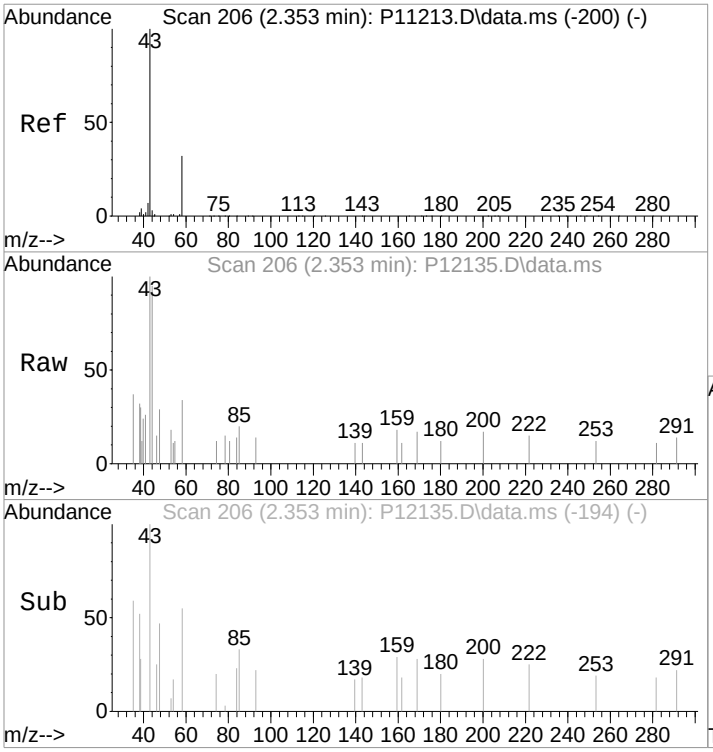
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12135.D
Acq On : 16 Sep 2017 4:39 am
Operator : K.Ruest
Sample : R1708647-015|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Sep 18 14:54:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



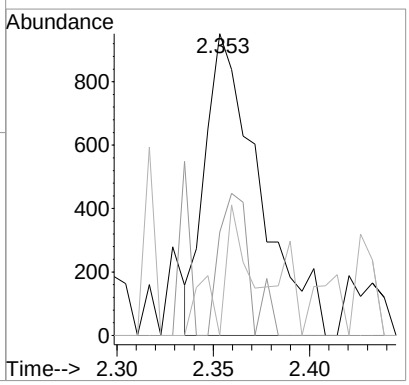
1st KR 09/18/17
2nd BA 09/20/17

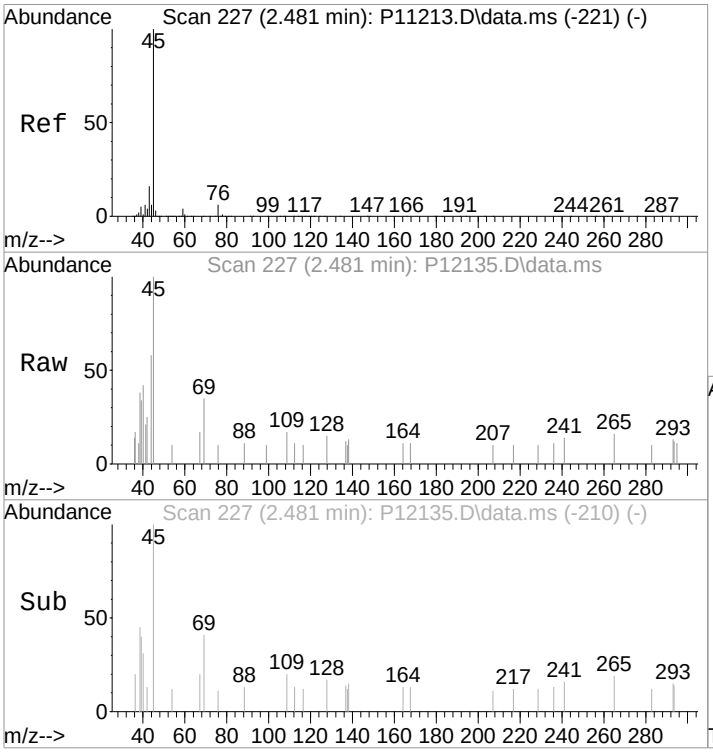


#15
Acetone
Concen: 0.61 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12135.D
Acq: 16 Sep 2017 4:39 am

Tgt Ion: 43 Resp: 1854

Ion	Ratio	Lower	Upper
43	100		
58	34.2	12.3	52.3
42	0.0	0.0	27.4

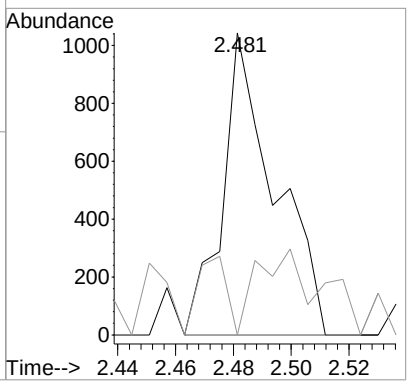


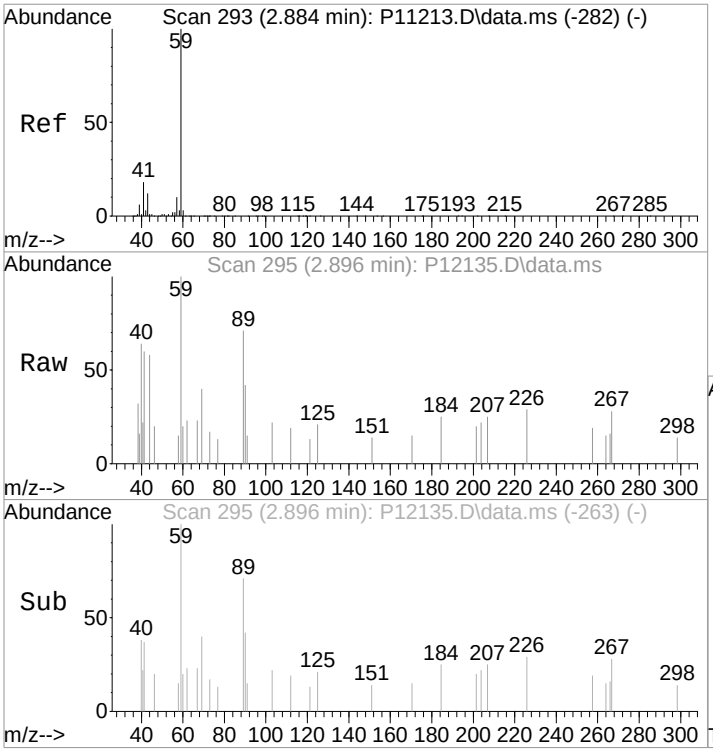


#16
2-Propanol
Concen: 2.08 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.008 min
Lab File: P12135.D
Acq: 16 Sep 2017 4:39 am

Tgt Ion: 45 Resp: 1312

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	36.5

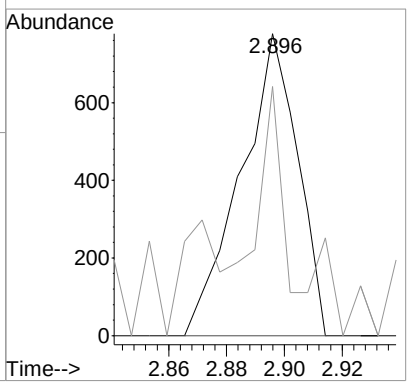


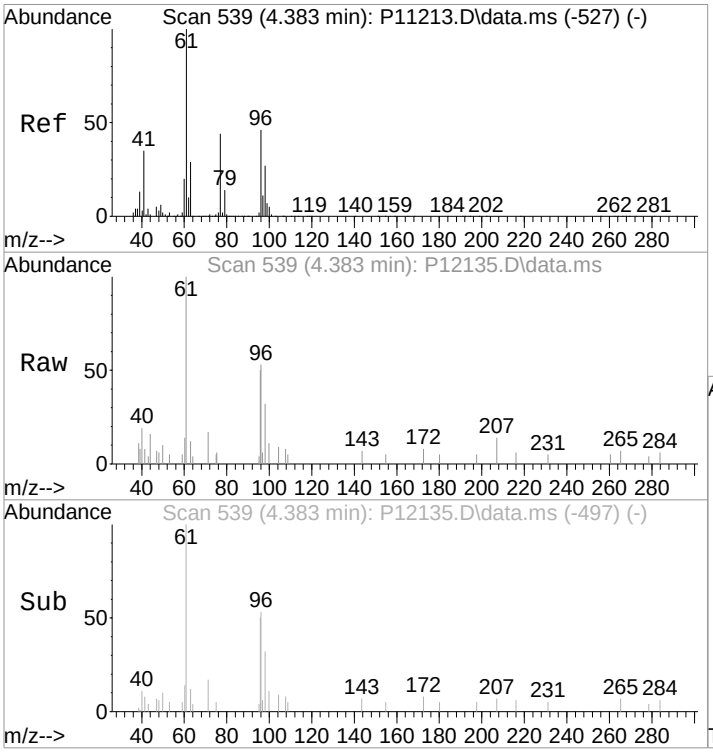


#23
TBA
Concen: 1.22 ppb
RT: 2.896 min Scan# 295
Delta R.T. 0.010 min
Lab File: P12135.D
Acq: 16 Sep 2017 4:39 am

Tgt Ion: 59 Resp: 1064

Ion	Ratio	Lower	Upper
59	100		
41	82.5	0.0	38.3#

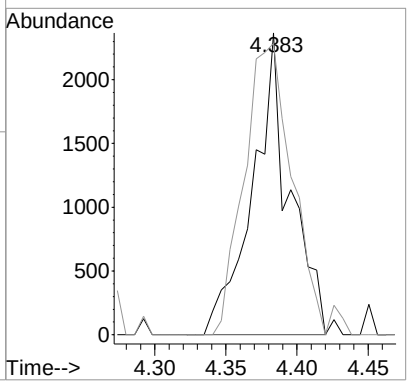


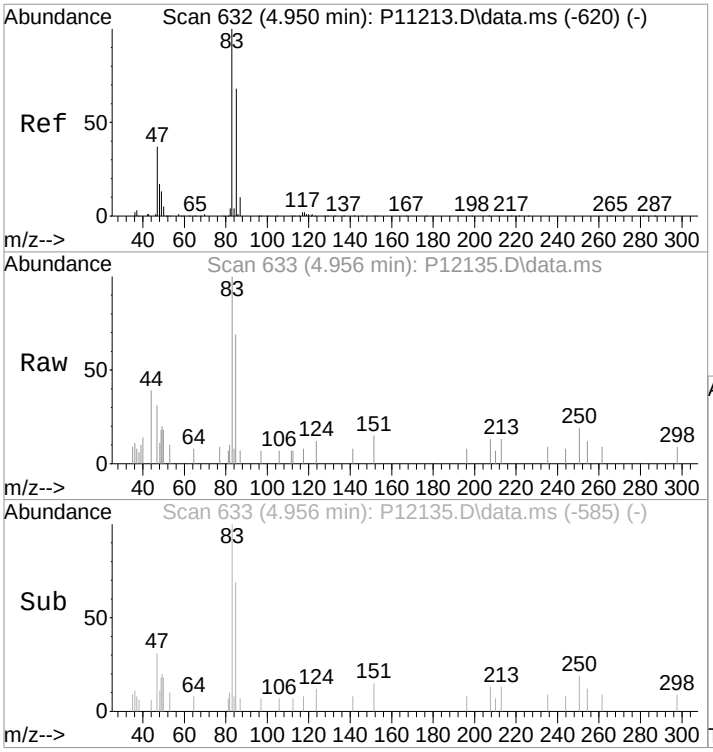


#34
cis-1,2-Dichloroethene
Concen: 1.31 ppb m
RT: 4.383 min Scan# 539
Delta R.T. -0.002 min
Lab File: P12135.D
Acq: 16 Sep 2017 4:39 am

Tgt Ion: 96 Resp: 4300

Ion	Ratio	Lower	Upper
96	100		
61	188.1	197.5	237.5#

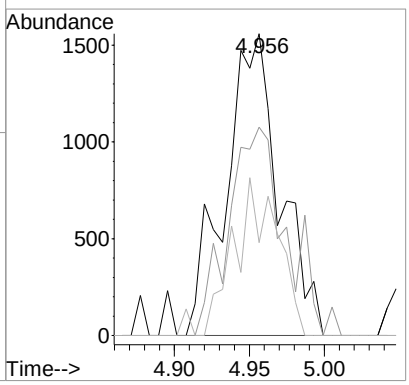


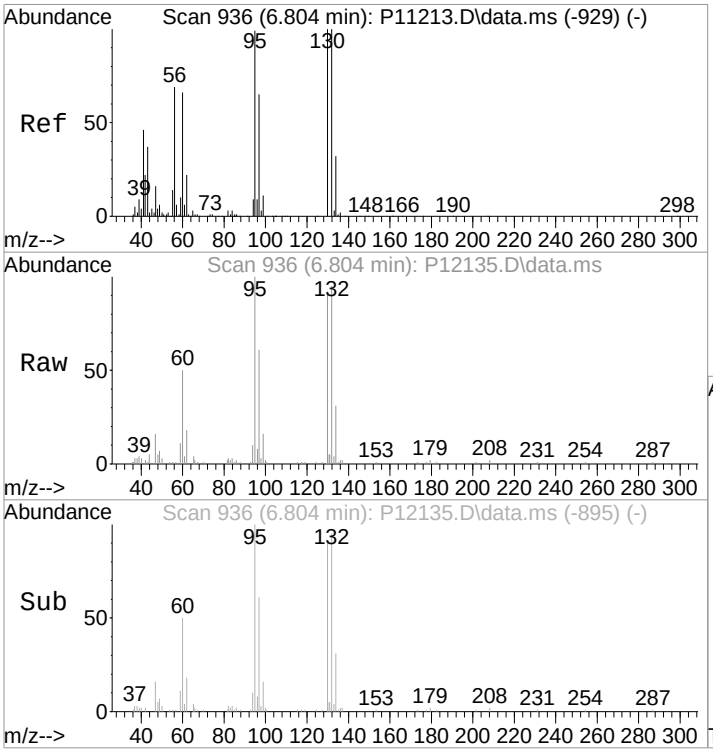


#40
Chloroform
Concen: 0.78 ppb m
RT: 4.956 min Scan# 633
Delta R.T. 0.009 min
Lab File: P12135.D
Acq: 16 Sep 2017 4:39 am

Tgt Ion: 83 Resp: 3933

Ion	Ratio	Lower	Upper
83	100		
85	69.0	48.0	88.0
47	30.8	16.7	56.7

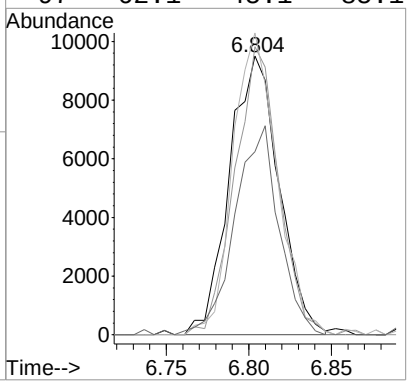


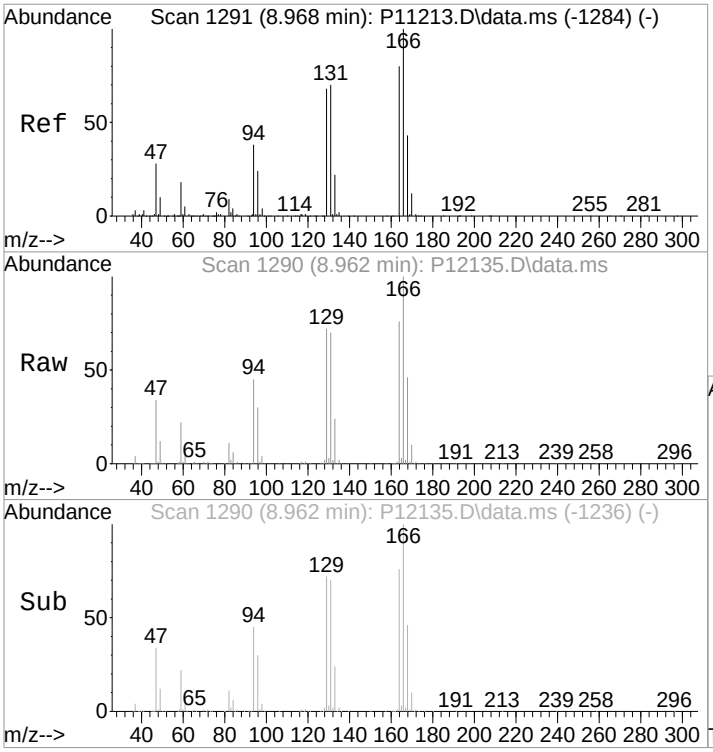


#54
Trichloroethene
Concen: 6.35 ppb
RT: 6.804 min Scan# 936
Delta R.T. 0.000 min
Lab File: P12135.D
Acq: 16 Sep 2017 4:39 am

Tgt Ion:130 Resp: 19806

Ion	Ratio	Lower	Upper
130	100		
132	97.7	80.0	120.0
95	102.4	79.4	119.4
97	62.1	45.1	85.1

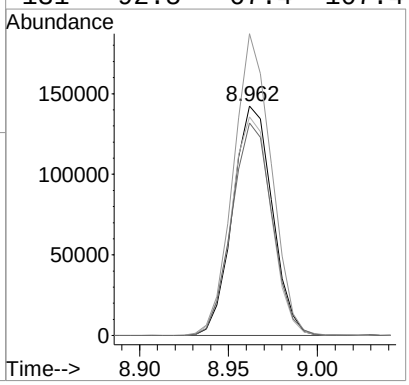




#72
Tetrachloroethene
Concen: 98.48 ppb
RT: 8.962 min Scan# 1290
Delta R.T. 0.000 min
Lab File: P12135.D
Acq: 16 Sep 2017 4:39 am

Tgt Ion:164 Resp: 219666

Ion	Ratio	Lower	Upper
164	100		
166	131.6	105.1	145.1
129	95.2	65.3	105.3
131	92.5	67.4	107.4

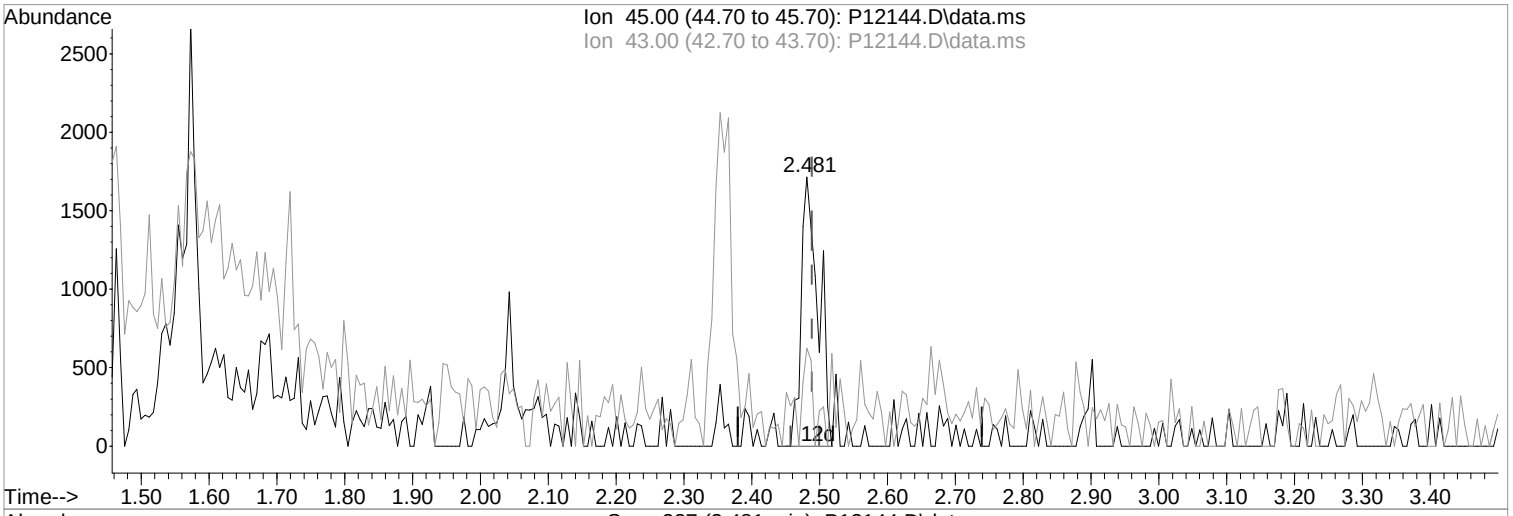


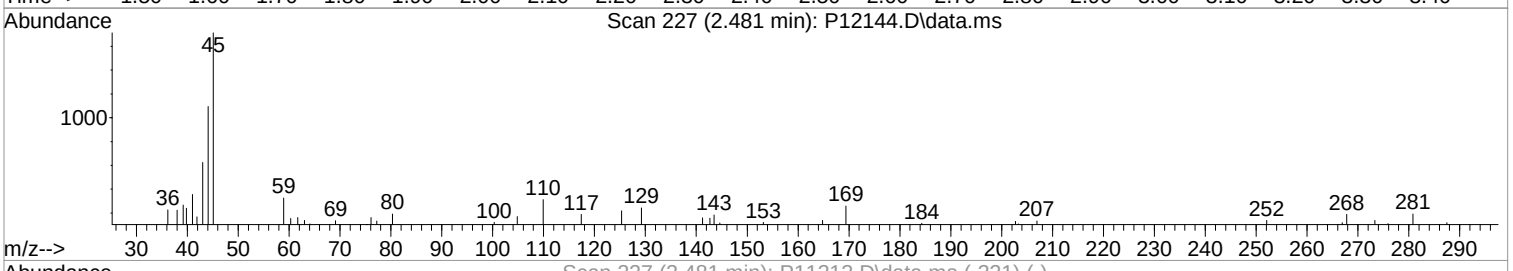
1st 09/18/17
2nd 09/19/17

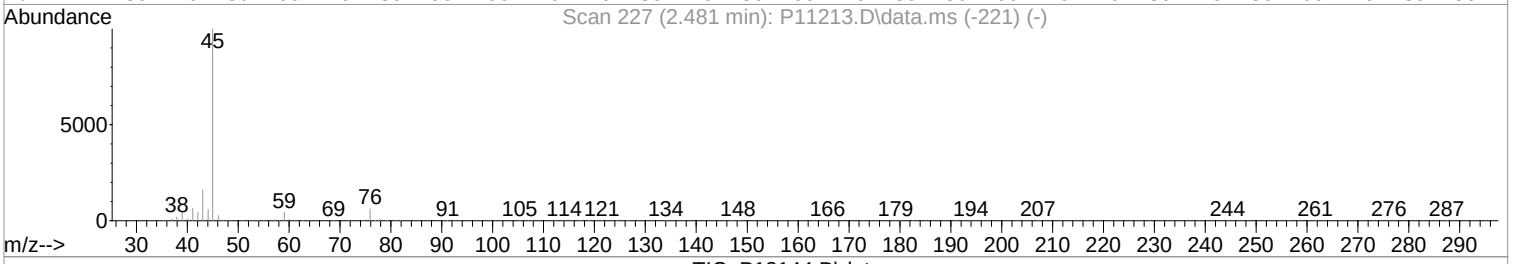
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 12:59:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12144.D\data.ms

(16) 2-Propanol

2.481min (-0.008) 4.03 ppb m

response 3029

Ion	Exp%	Act%
45.00	100	100
43.00	16.50	36.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

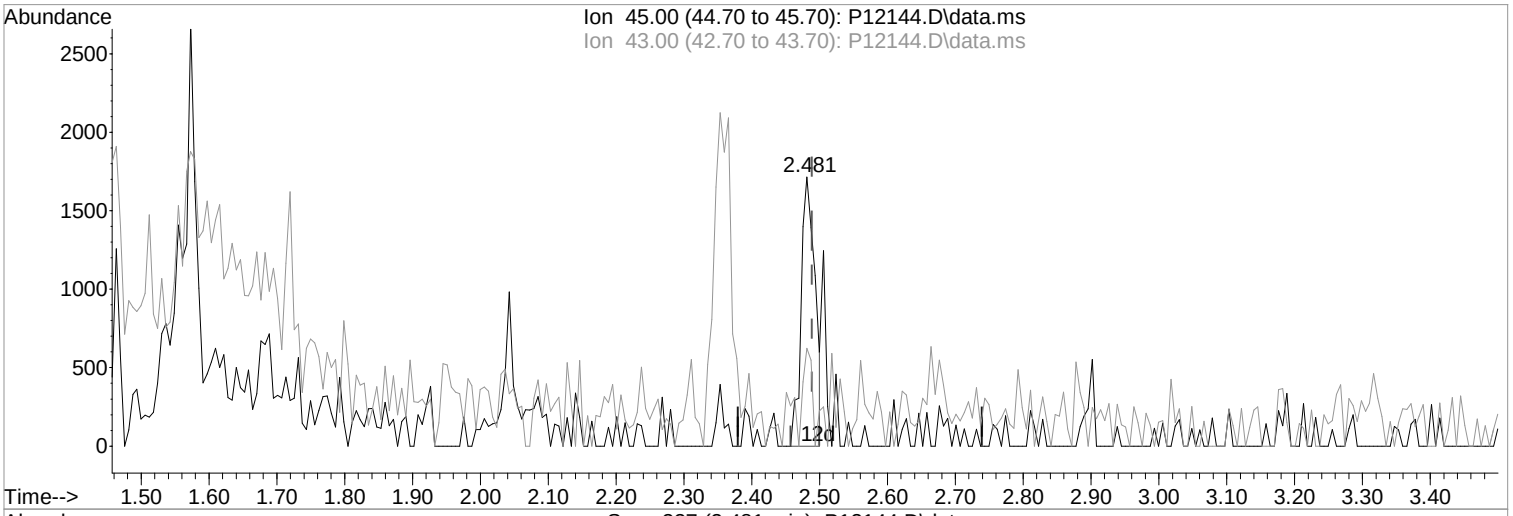
Split Peak

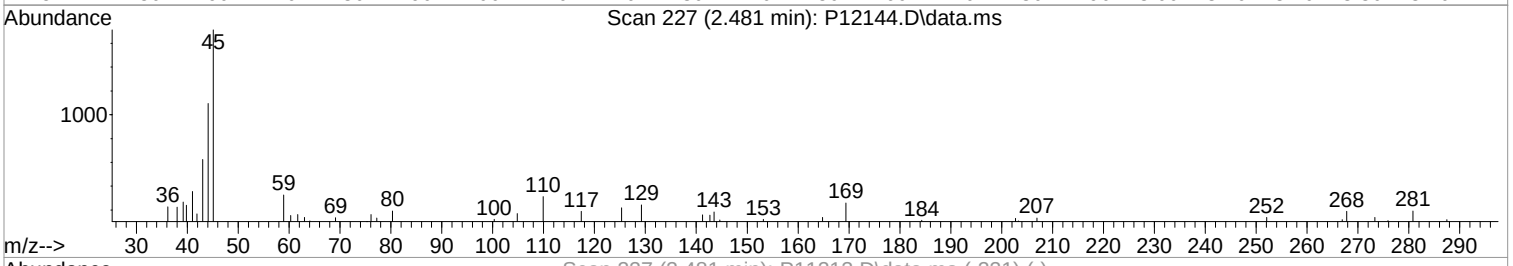
09/18/17

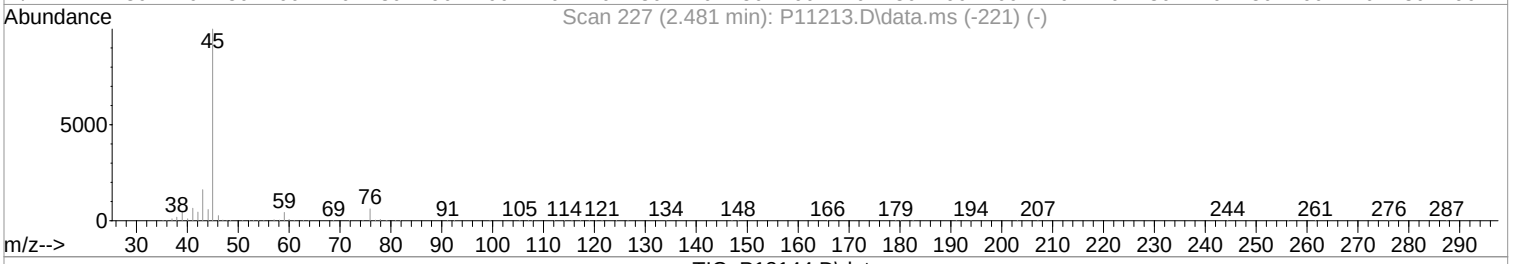
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 12:59:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12144.D\data.ms

(16) 2-Propanol

2.481min (-0.008) 3.30 ppb

response 2481

Ion	Exp%	Act%
45.00	100	100
43.00	16.50	36.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

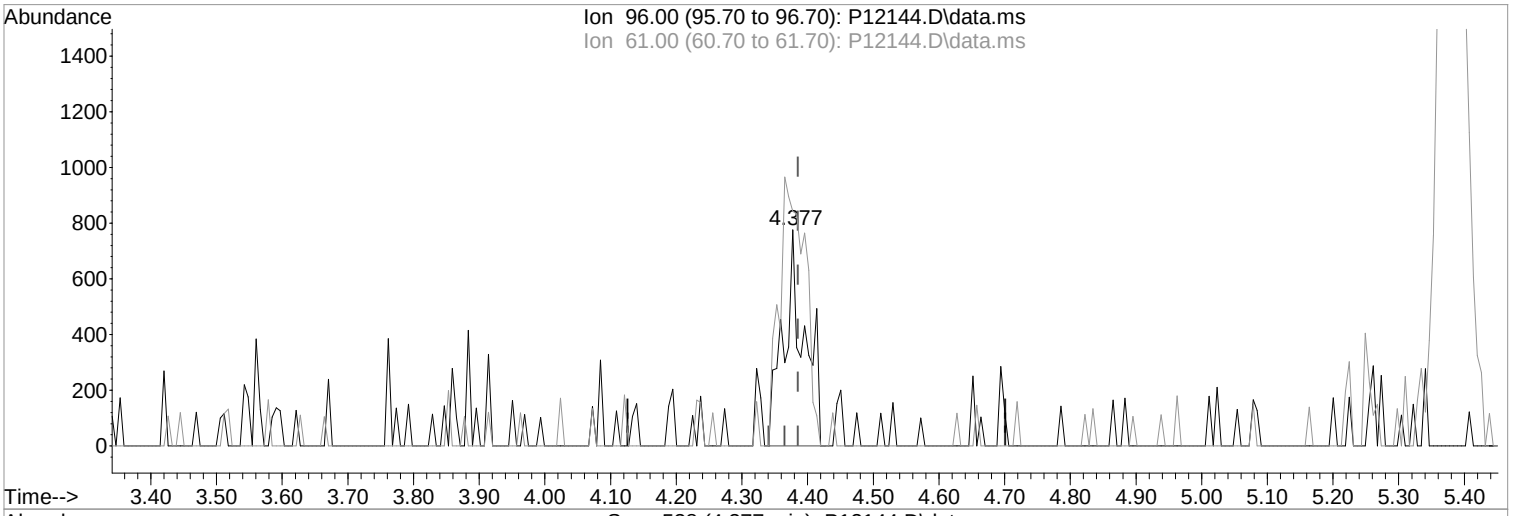
Before

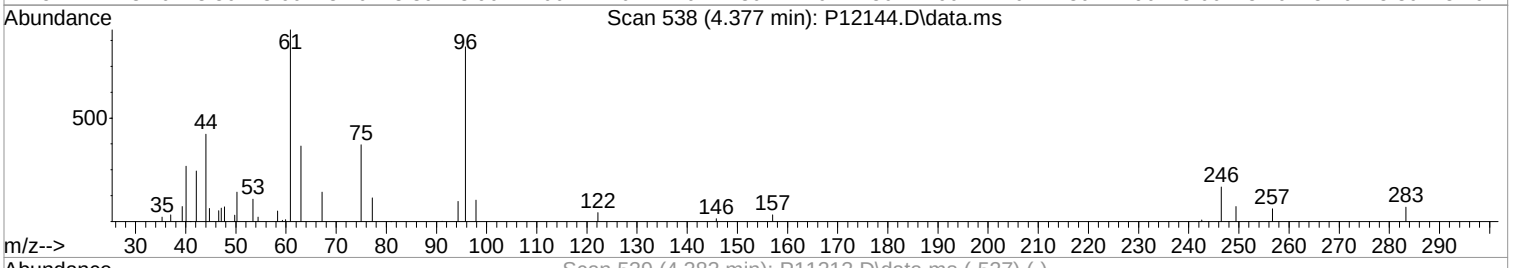
09/18/17

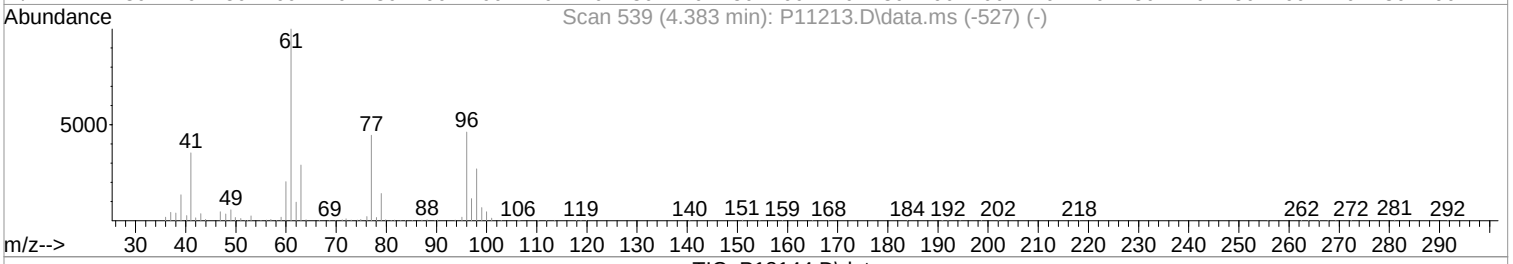
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 12:59:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12144.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.377min (-0.008) 0.43 ppb m

response 1699

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	108.51#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

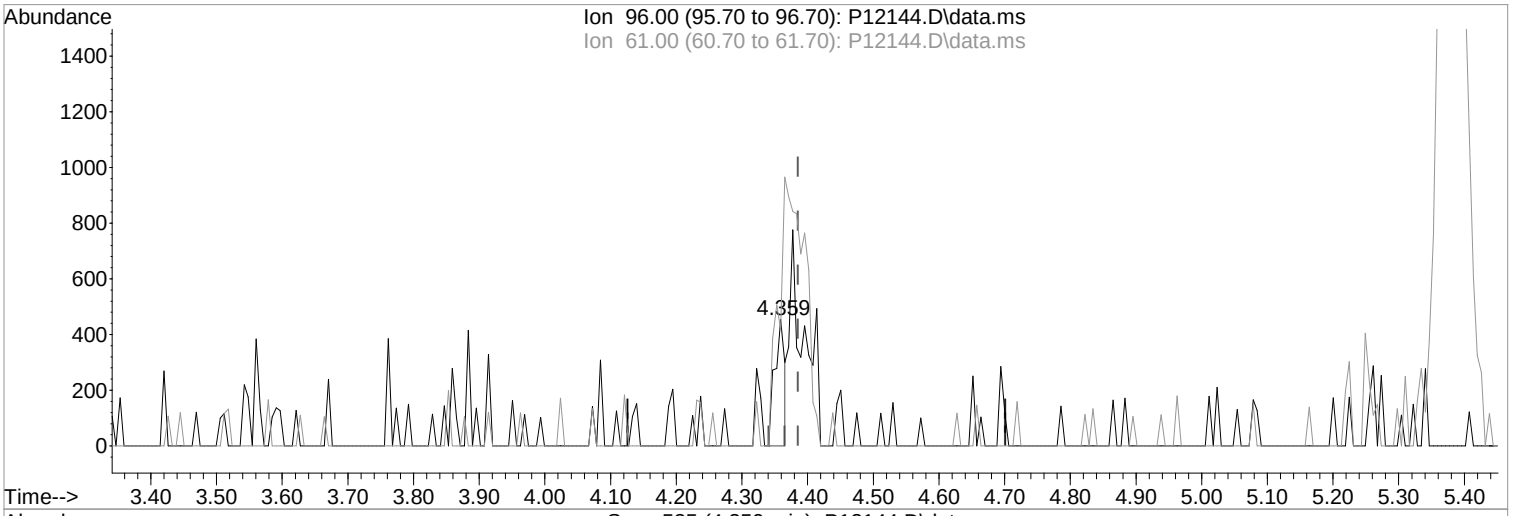
09/18/17

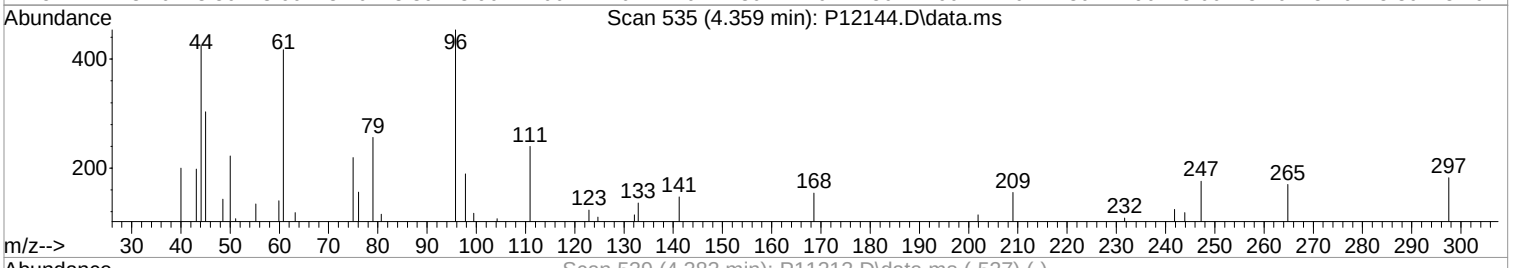
1st 09/18/17
2nd 09/19/17

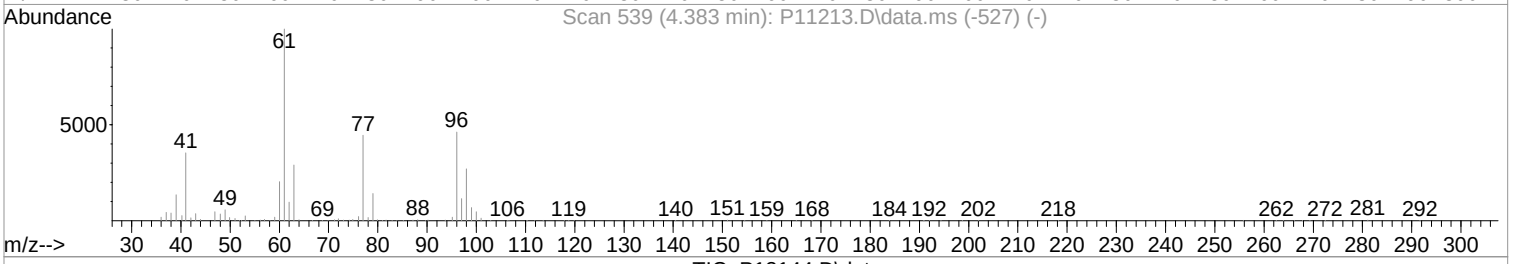
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 12:59:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12144.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.359min (-0.026) 0.12 ppb

response 477

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	91.85#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

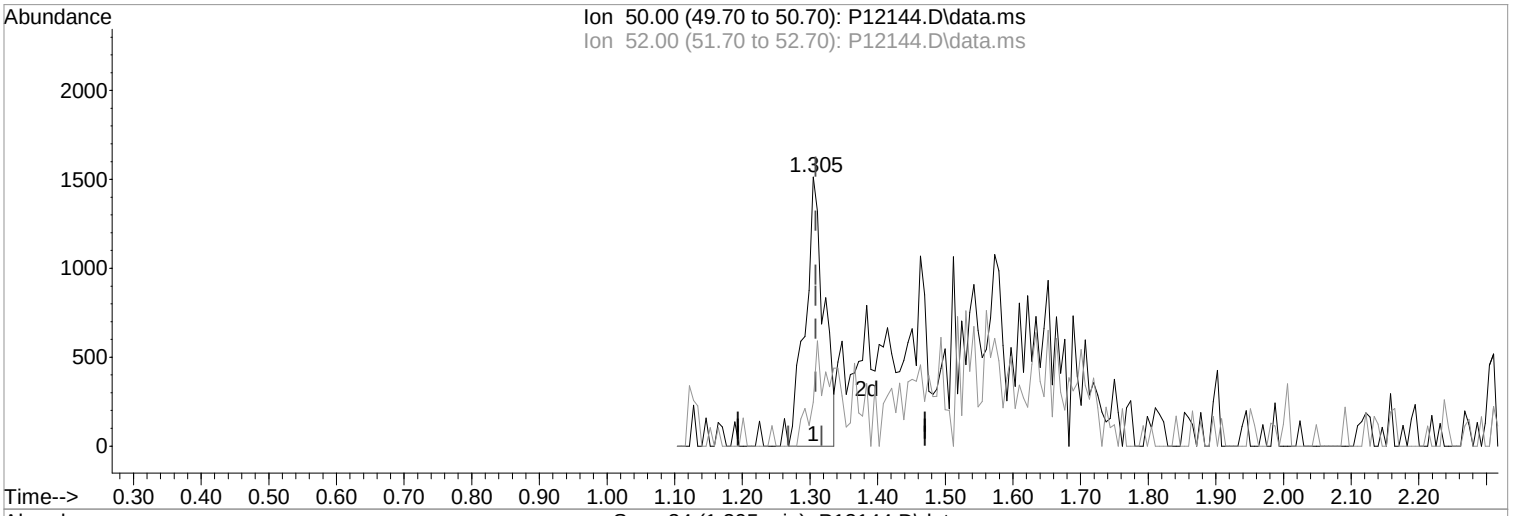
09/18/17

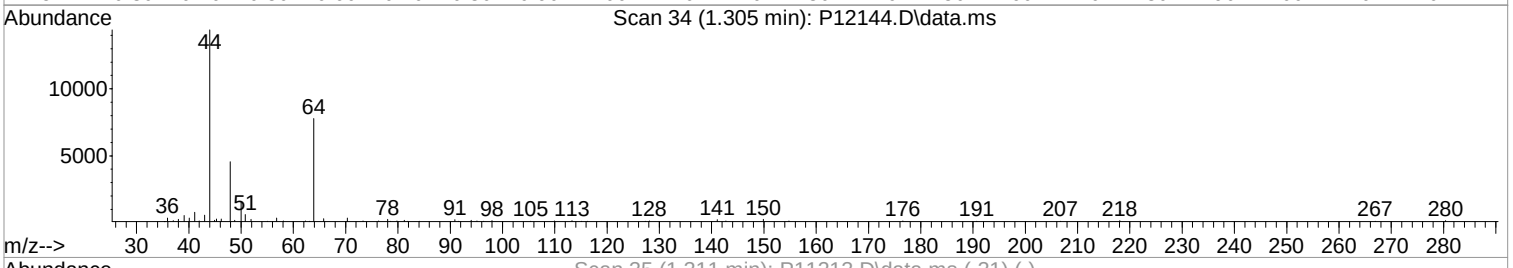
1st KR 09/18/17
2nd BA 09/19/17

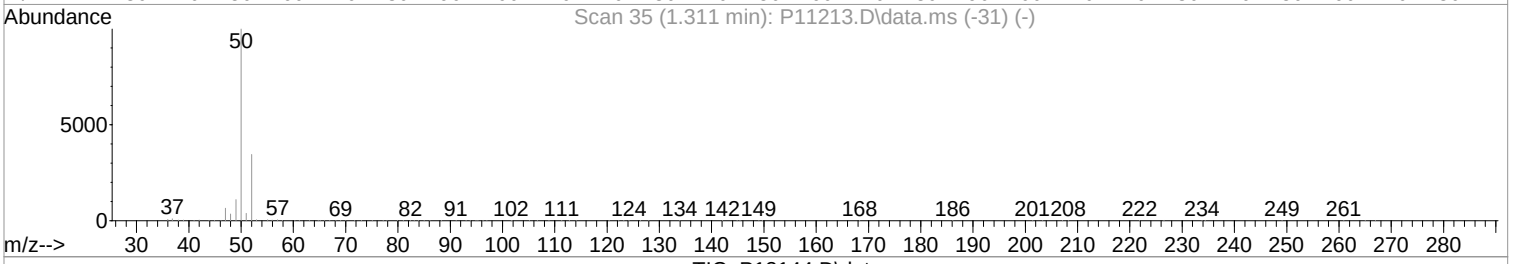
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 12:59:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12144.D\data.ms

(3) Chloromethane (P)

1.305min (-0.004) 0.37 ppb m

response 2902

Ion	Exp%	Act%
50.00	100	100
52.00	34.50	16.39
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

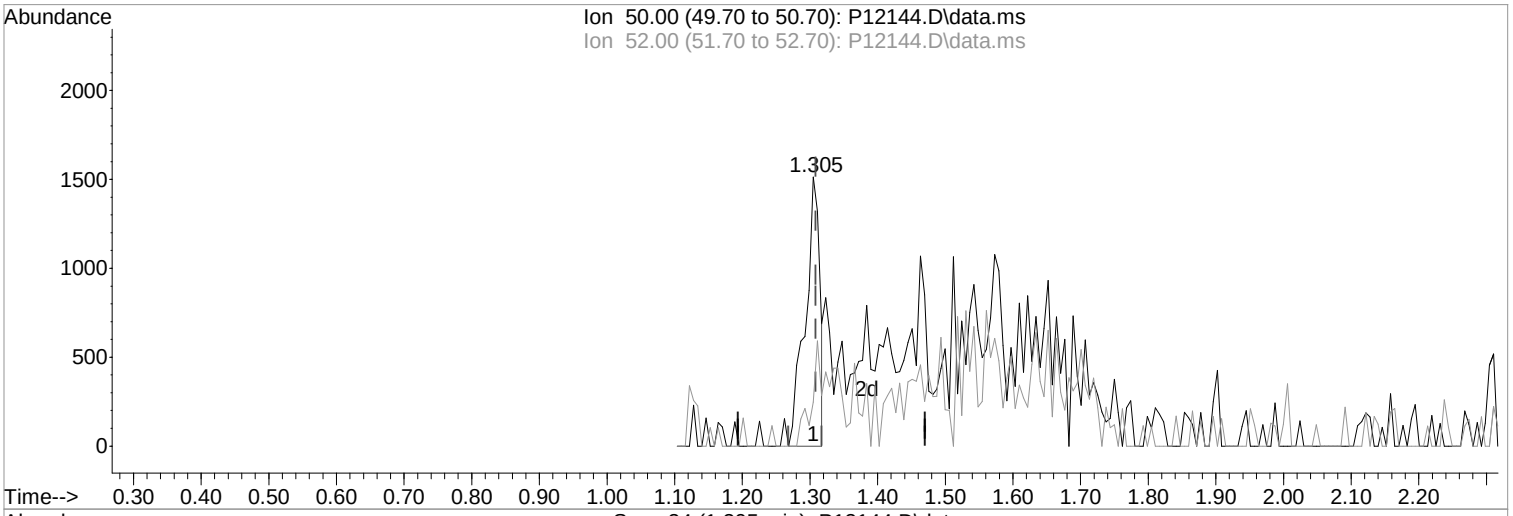
09/18/17

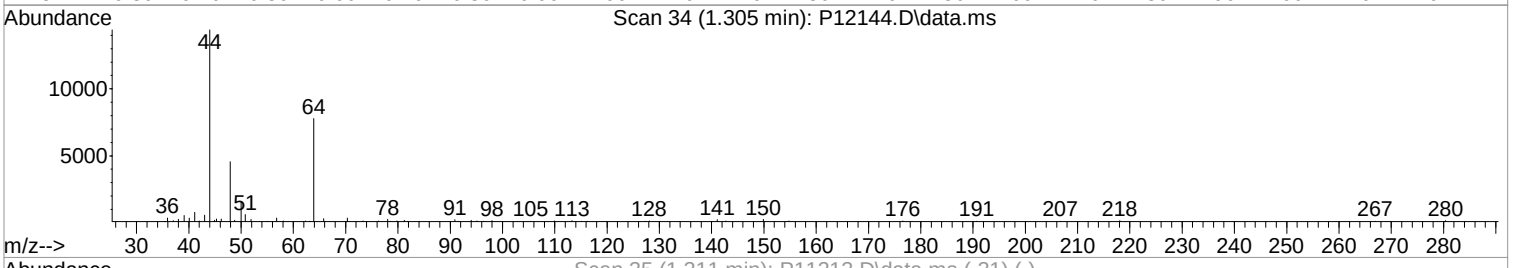
1st KR 09/18/17
2nd BA 09/19/17

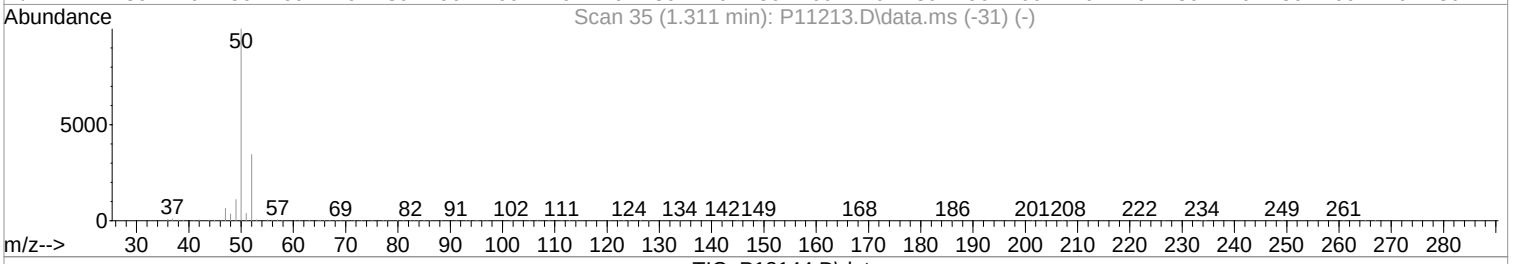
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 12:59:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12144.D\data.ms

(3) Chloromethane (P)

1.305min (-0.004) 0.29 ppb

response 2256

Ion	Exp%	Act%
50.00	100	100
52.00	34.50	16.39
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 16:18:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

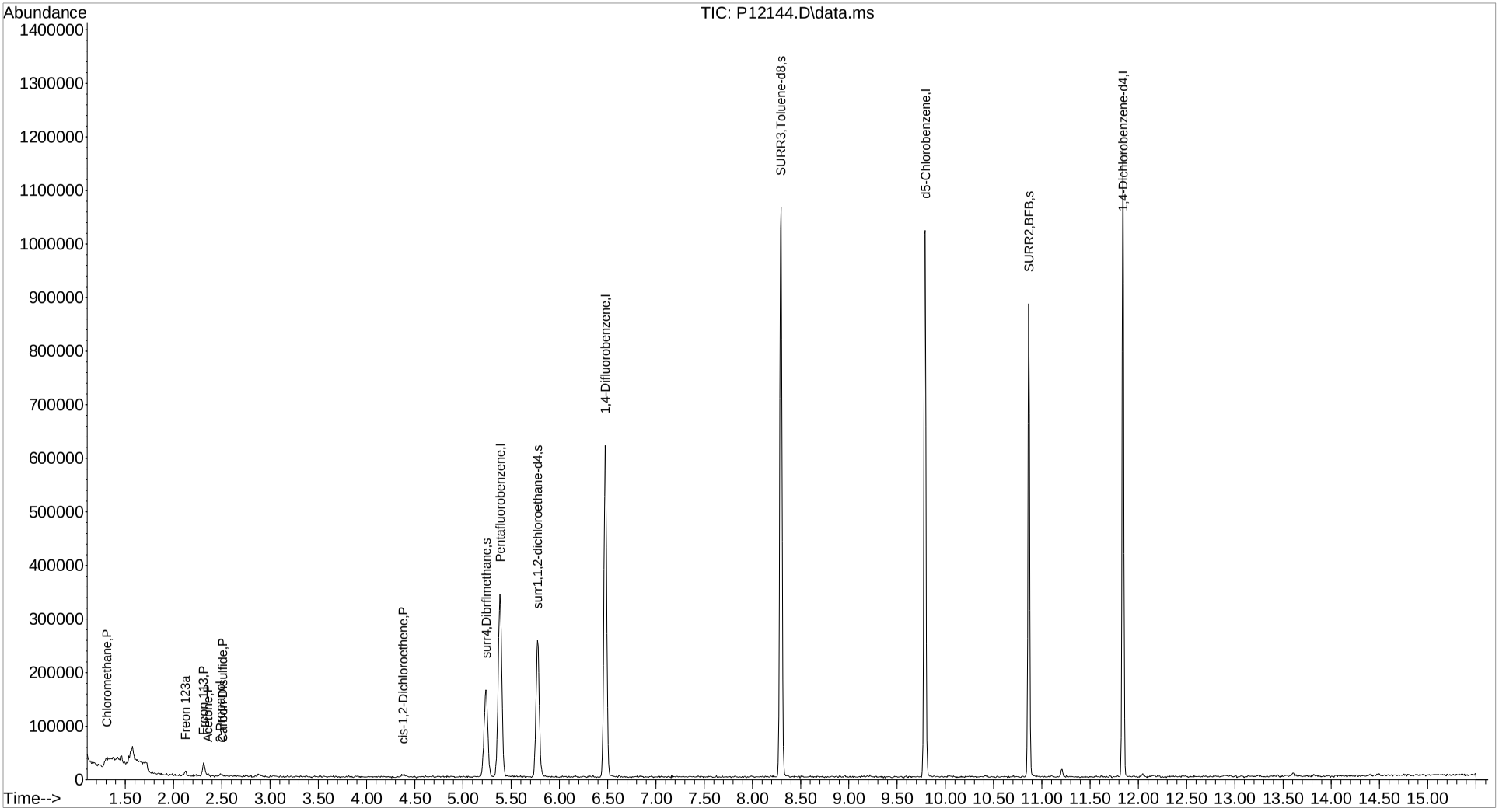
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	297041	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	488258	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	432660	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	206828	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	133341	48.97	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.94%				
48) surr1,1,2-dichloroetha...	5.773	65	205350	47.31	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 94.62%				
65) SURR3,Toluene-d8	8.297	98	620032	49.28	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.56%				
70) SURR2,BFB	10.864	95	228681	46.23	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.46%				
Target Compounds							Qvalue
3) Chloromethane	1.305	50	2902m	0.37	ppb		
5) Bromomethane	1.628	94	367	Below Cal			95
10) Freon 123a	2.122	67	4185	1.01	ppb	#	72
14) Freon 113	2.305	101	8231	2.86	ppb	#	63
15) Acetone	2.353	43	3848	1.06	ppb		81
16) 2-Propanol	2.481	45	3029m	4.03	ppb		
18) Carbon Disulfide	2.506	76	1866	0.22	ppb		83
34) cis-1,2-Dichloroethene	4.377	96	1699m	0.43	ppb		

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

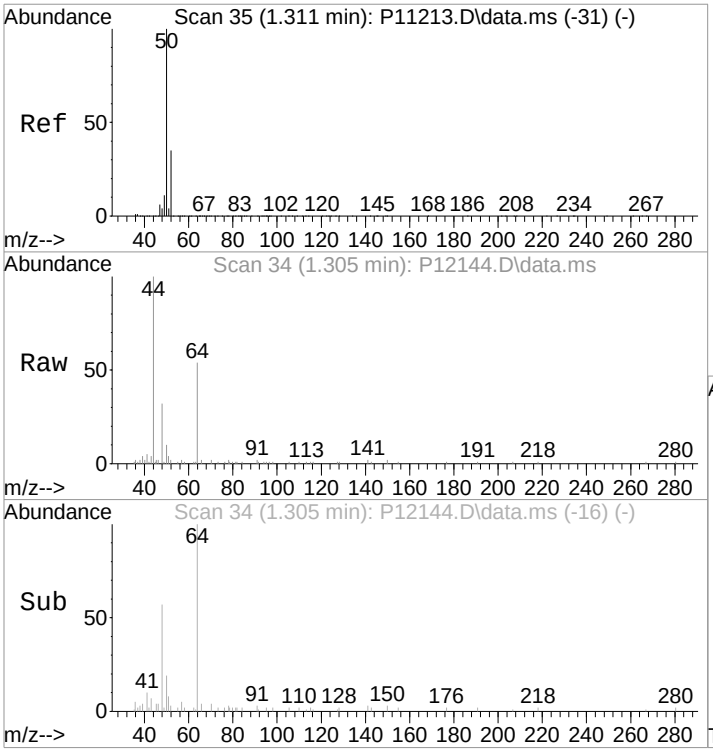
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12144.D
Acq On : 18 Sep 2017 12:33 pm
Operator : K.Ruest
Sample : R1708647-016|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 16:18:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



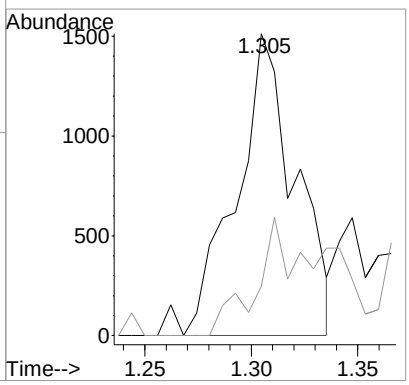
1st 09/18/17
2nd 09/19/17

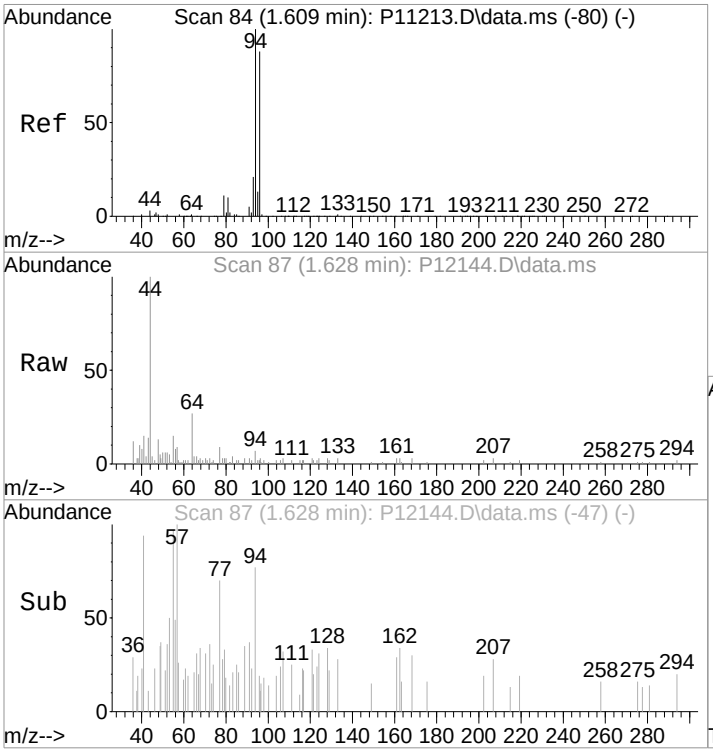


#3
Chloromethane
Concen: 0.37 ppb m
RT: 1.305 min Scan# 34
Delta R.T. -0.004 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion: 50 Resp: 2902

Ion	Ratio	Lower	Upper
50	100		
52	16.4	14.5	54.5

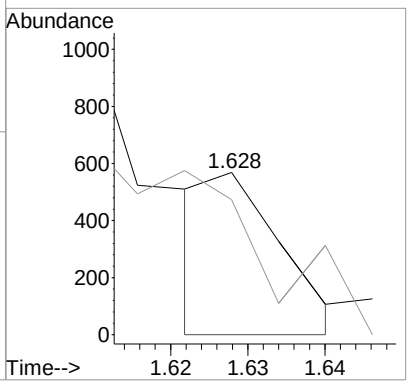


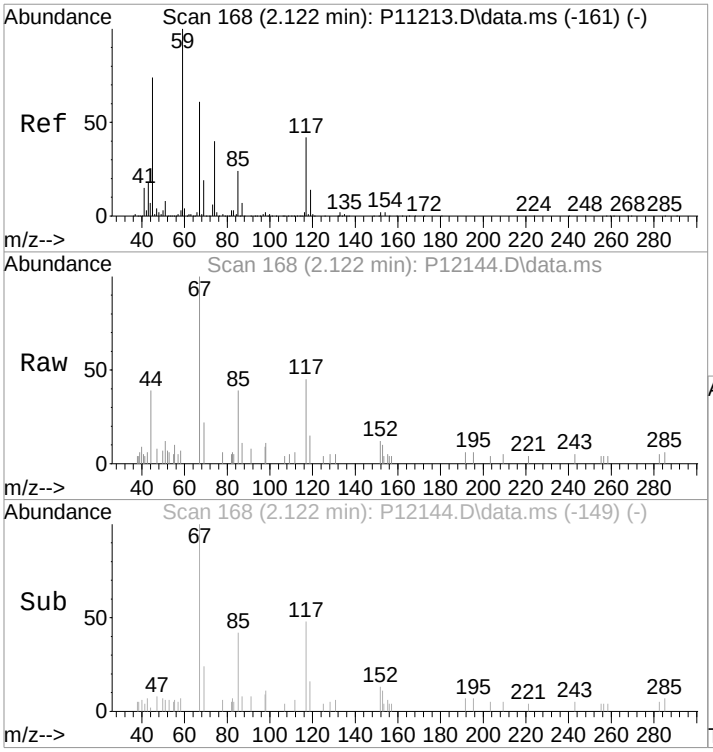


#5
Bromomethane
Concen: Below Cal
RT: 1.628 min Scan# 87
Delta R.T. 0.021 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion: 94 Resp: 367

Ion	Ratio	Lower	Upper
94	100		
96	83.1	68.2	108.2

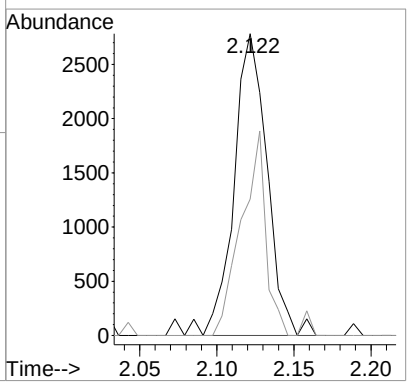


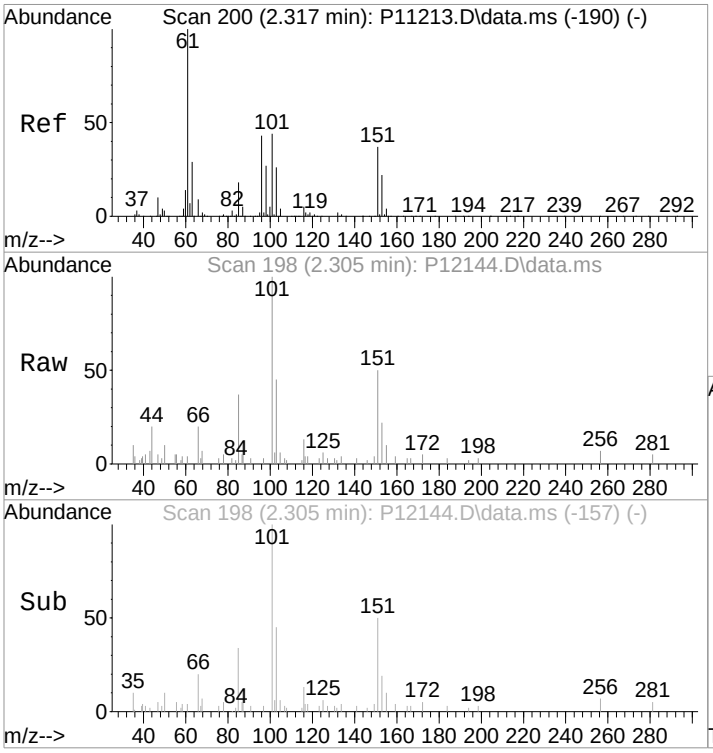


#10
Freon 123a
Concen: 1.01 ppb
RT: 2.122 min Scan# 168
Delta R.T. 0.000 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion: 67 Resp: 4185

Ion	Ratio	Lower	Upper
67	100		
117	45.2	48.2	88.2#

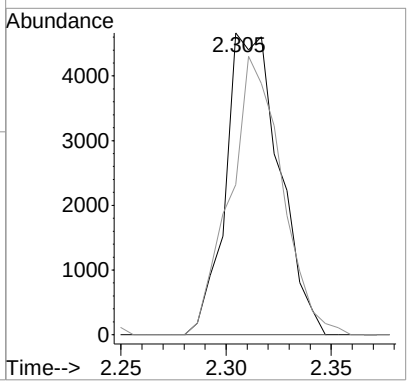


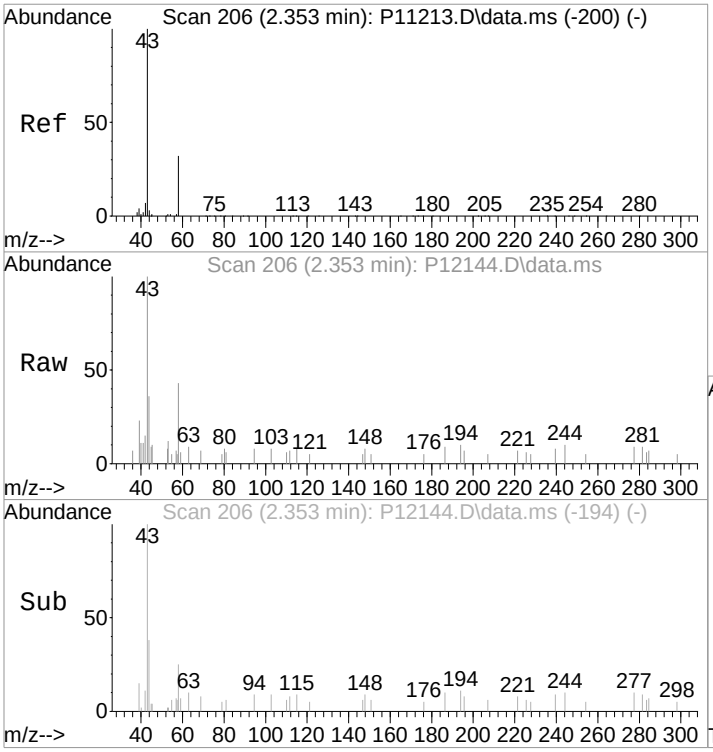


#14
Freon 113
Concen: 2.86 ppb
RT: 2.305 min Scan# 198
Delta R.T. -0.006 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion:101 Resp: 8231

Ion	Ratio	Lower	Upper
101	100		
151	49.7	62.7	102.7#

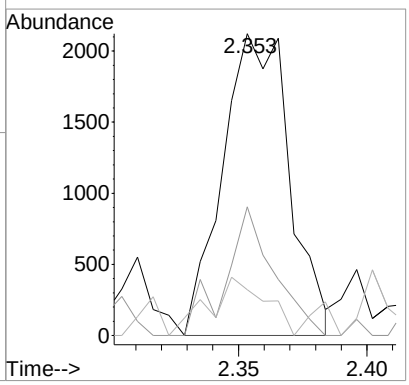


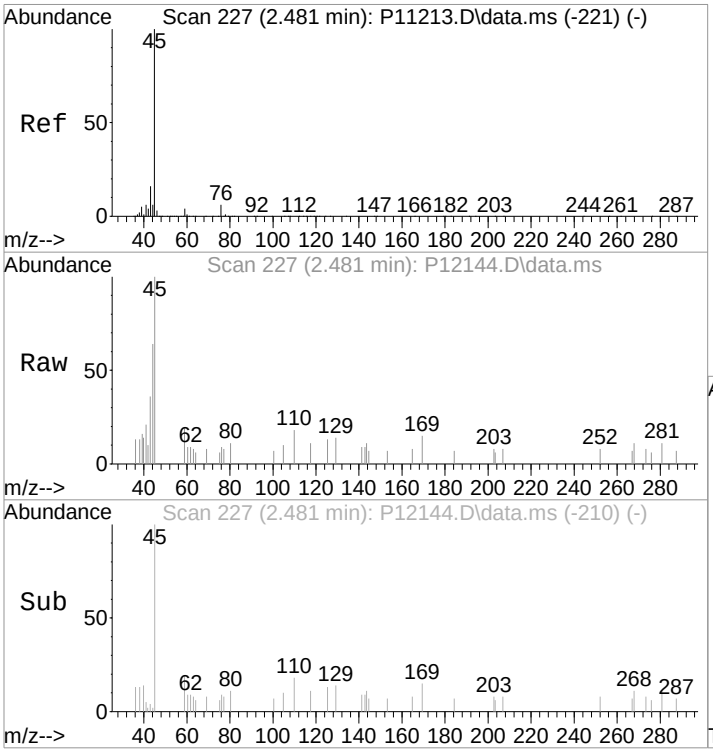


#15
Acetone
Concen: 1.06 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion: 43 Resp: 3848

Ion	Ratio	Lower	Upper
43	100		
58	42.6	12.3	52.3
42	15.2	0.0	27.4

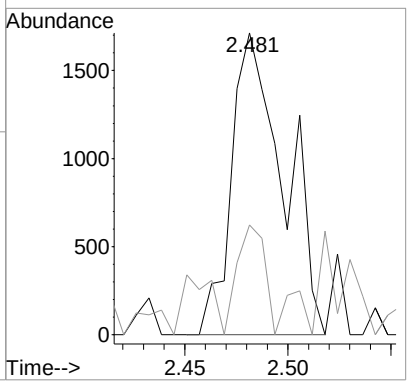


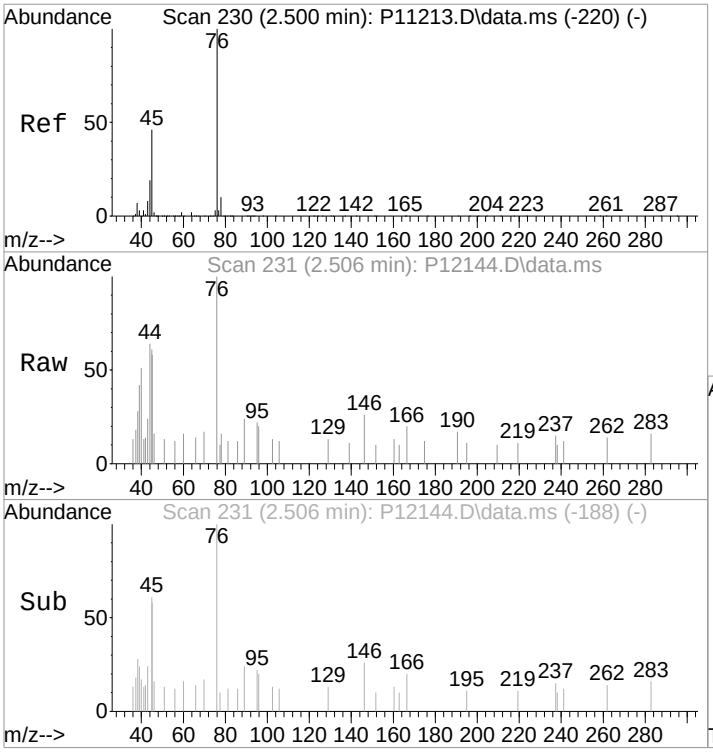


#16
2-Propanol
Concen: 4.03 ppb m
RT: 2.481 min Scan# 227
Delta R.T. -0.008 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion: 45 Resp: 3029

Ion	Ratio	Lower	Upper
45	100		
43	36.4	0.0	36.5

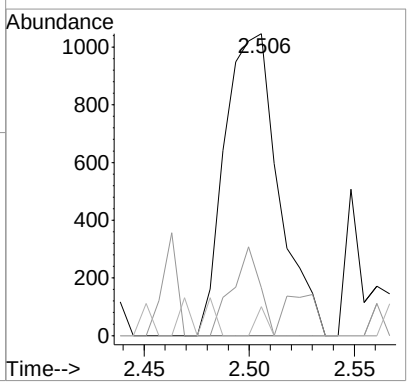


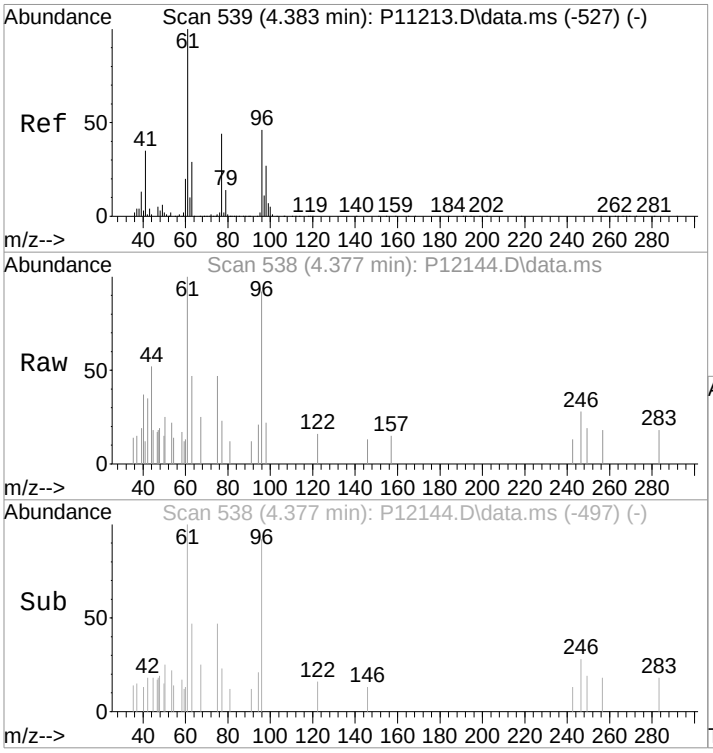


#18
Carbon Disulfide
Concen: 0.22 ppb
RT: 2.506 min Scan# 231
Delta R.T. 0.006 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion: 76 Resp: 1866

Ion	Ratio	Lower	Upper
76	100		
78	15.9	0.0	29.8
77	9.6	0.0	22.6

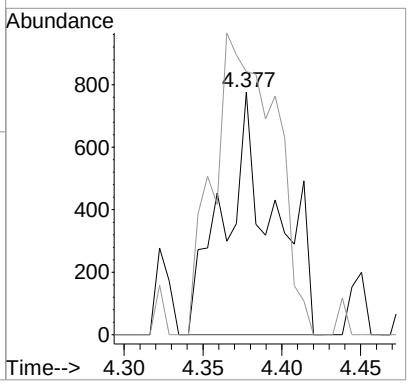




#34
cis-1,2-Dichloroethene
Concen: 0.43 ppb m
RT: 4.377 min Scan# 538
Delta R.T. -0.008 min
Lab File: P12144.D
Acq: 18 Sep 2017 12:33 pm

Tgt Ion: 96 Resp: 1699

Ion	Ratio	Lower	Upper
96	100		
61	108.5	197.5	237.5#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12121.D
Acq On : 15 Sep 2017 11:32 pm
Operator : K.Ruest
Sample : R1708647-017|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 18 14:00:40 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

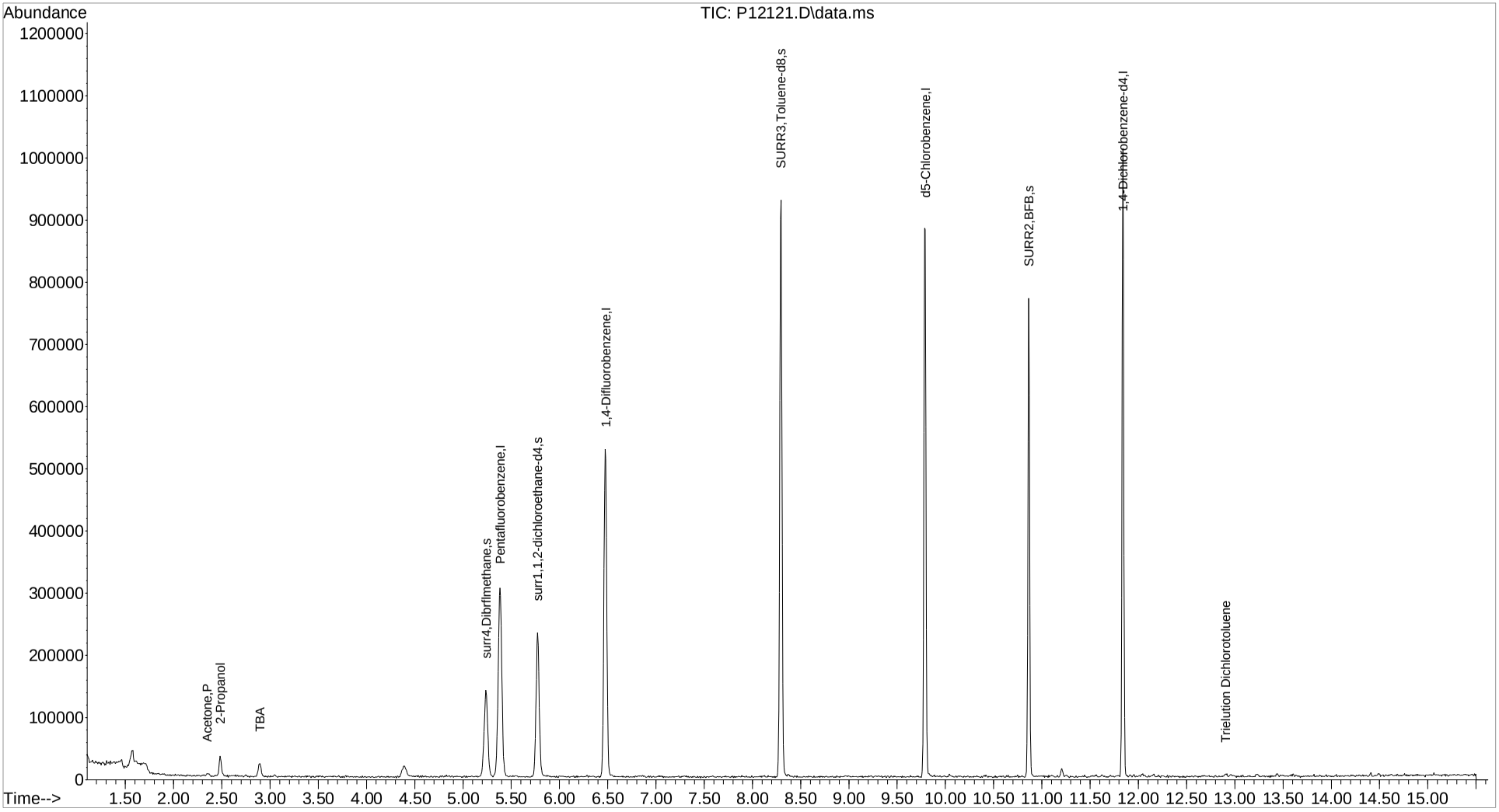
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	262936	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.480	114	428696	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	382652	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	181569	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	113248	47.37	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.74%				
48) surr1,1,2-dichloroetha...	5.773	65	174035	45.67	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.34%				
65) SURR3,Toluene-d8	8.297	98	533365	48.28	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.56%				
70) SURR2,BFB	10.864	95	200035	46.06	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.12%				
Target Compounds							Qvalue
15) Acetone	2.347	43	5207	1.63	ppb		79
16) 2-Propanol	2.481	45	33731	50.72	ppb		89
23) TBA	2.896	59	12660	13.69	ppb		67
112) Trielution Dichlorotol...	12.900	125	1808	0.30	ppb	#	63

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

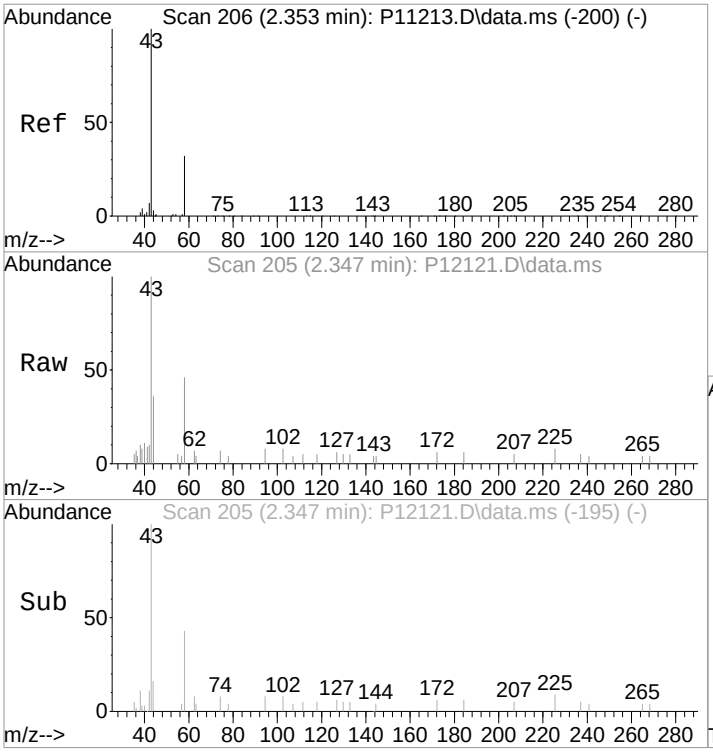
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12121.D
Acq On : 15 Sep 2017 11:32 pm
Operator : K.Ruest
Sample : R1708647-017|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 18 14:00:40 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



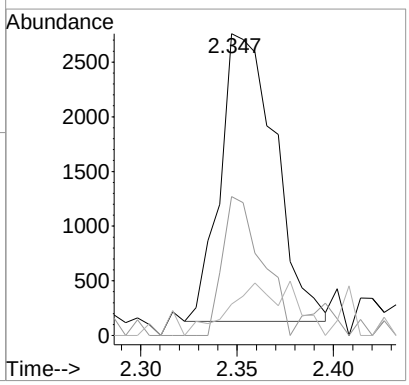
1st KR 09/18/17
2nd BA 09/20/17

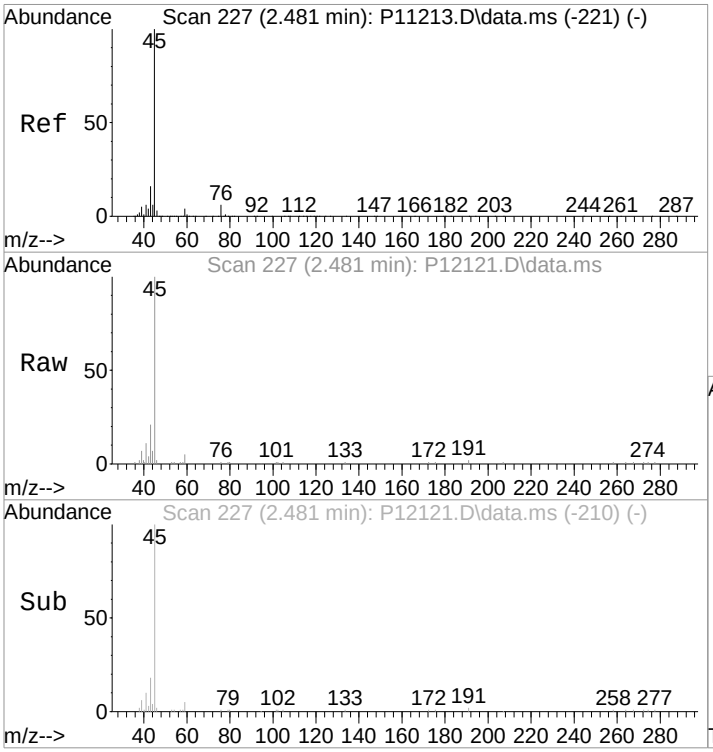


#15
Acetone
Concen: 1.63 ppb
RT: 2.347 min Scan# 205
Delta R.T. -0.010 min
Lab File: P12121.D
Acq: 15 Sep 2017 11:32 pm

Tgt Ion: 43 Resp: 5207

Ion	Ratio	Lower	Upper
43	100		
58	46.0	12.3	52.3
42	10.4	0.0	27.4

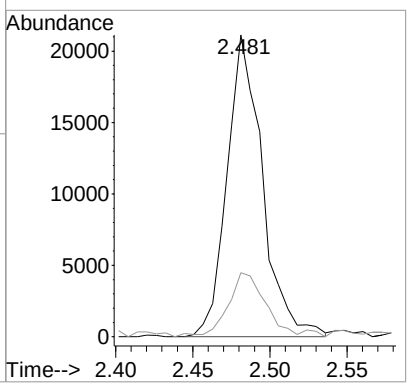


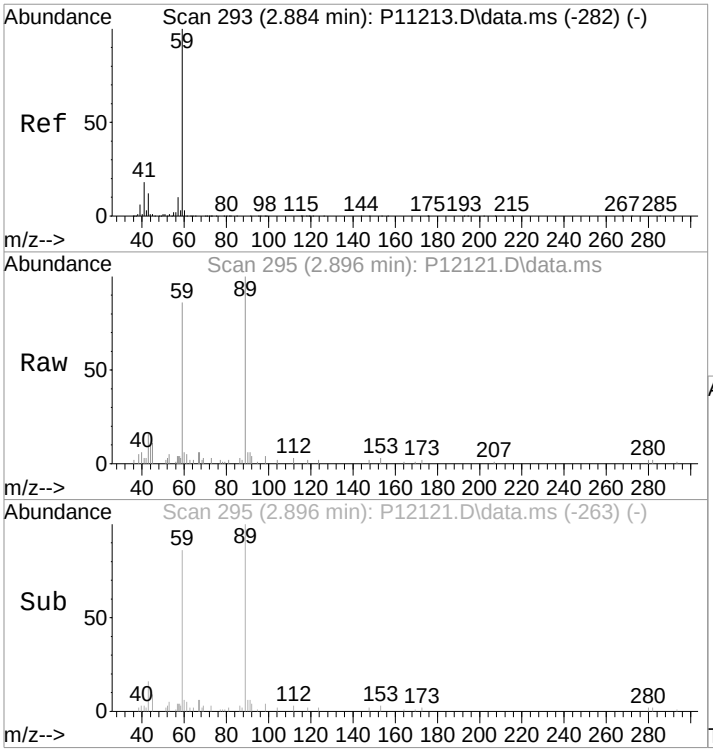


#16
2-Propanol
Concen: 50.72 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.008 min
Lab File: P12121.D
Acq: 15 Sep 2017 11:32 pm

Tgt Ion: 45 Resp: 33731

Ion	Ratio	Lower	Upper
45	100		
43	21.2	0.0	36.5

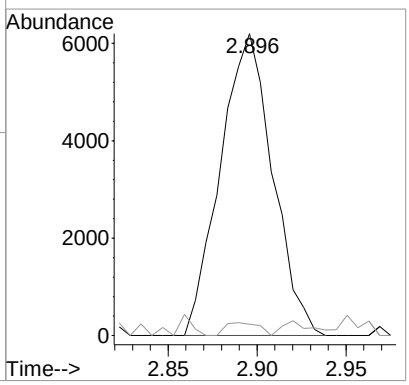


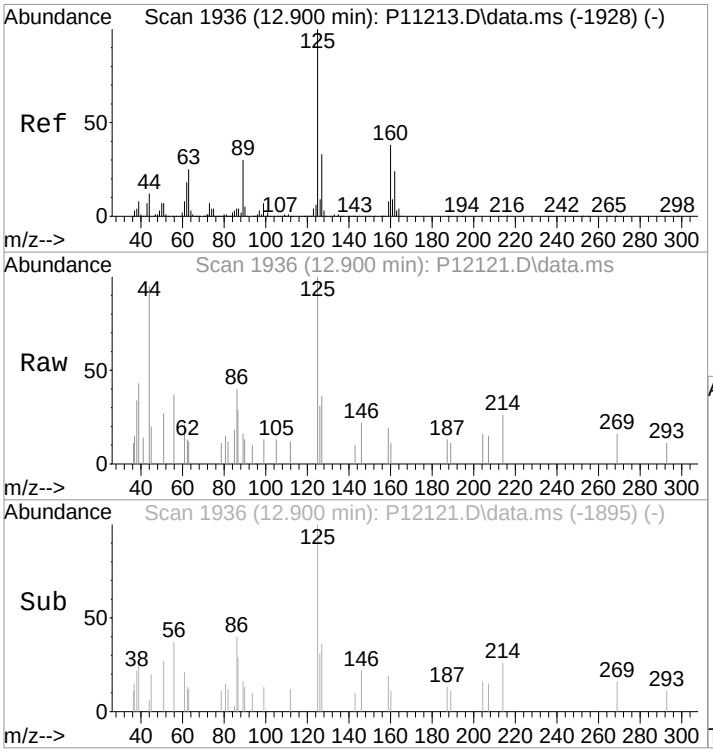


#23
TBA
Concen: 13.69 ppb
RT: 2.896 min Scan# 295
Delta R.T. 0.010 min
Lab File: P12121.D
Acq: 15 Sep 2017 11:32 pm

Tgt Ion: 59 Resp: 12660

Ion	Ratio	Lower	Upper
59	100		
41	3.7	0.0	38.3

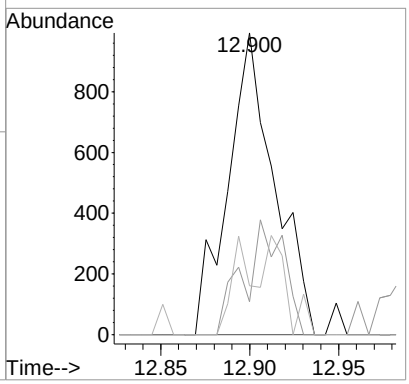




#112
Trielution Dichlorotoluene
Concen: 0.30 ppb
RT: 12.900 min Scan# 1936
Delta R.T. -0.003 min
Lab File: P12121.D
Acq: 15 Sep 2017 11:32 pm

Tgt Ion:125 Resp: 1808

Ion	Ratio	Lower	Upper
125	100		
160	11.0	30.6	46.0#
89	16.2	24.1	36.1#

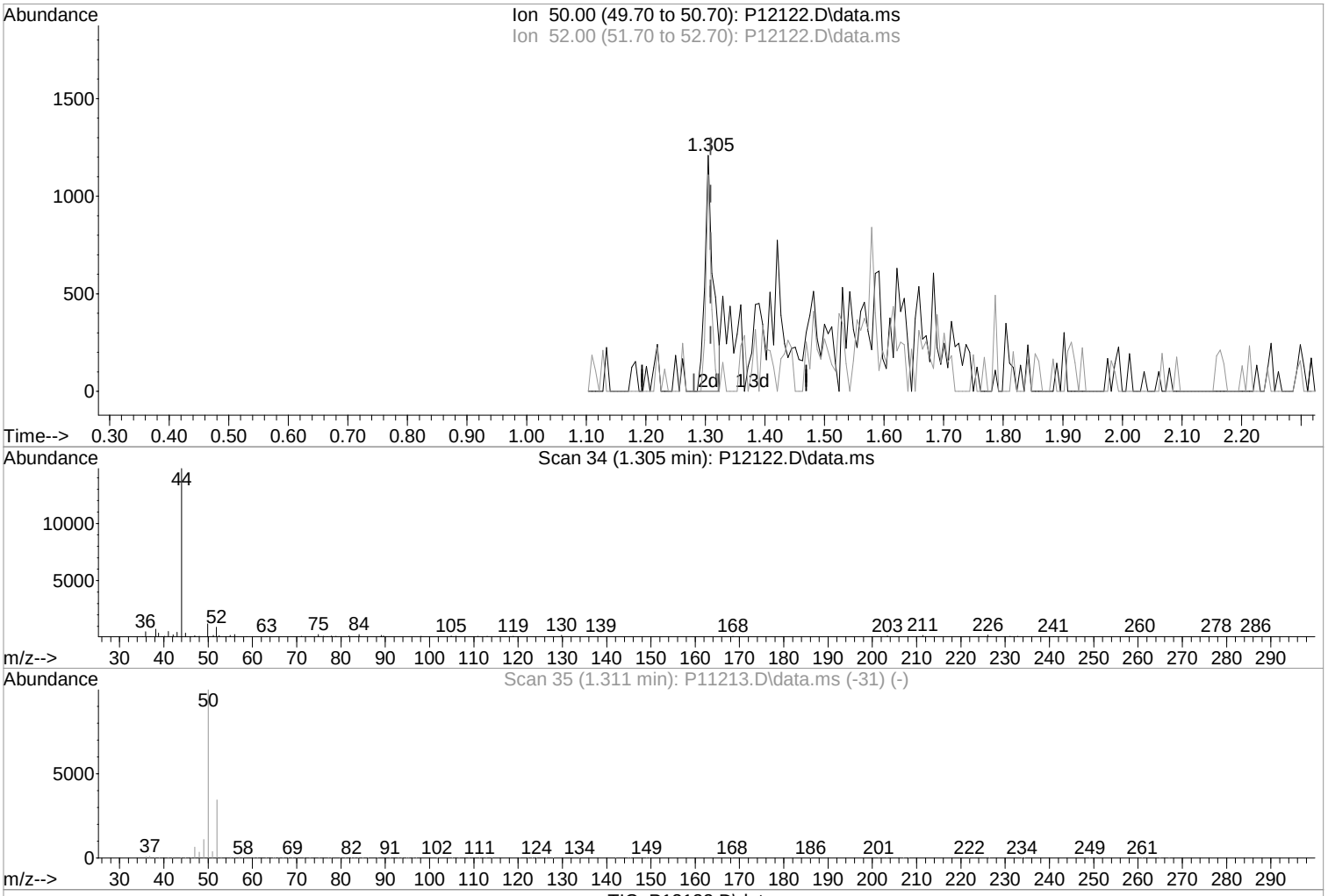


1st 09/18/17
2nd 09/20/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12122.D
Acq On : 15 Sep 2017 11:54 pm
Operator : K.Ruest
Sample : R1708647-018|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 18 09:53:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12122.D\data.ms

(3) Chloromethane (P)

1.305min (-0.004) 0.17 ppb m

response 1178

Ion	Exp%	Act%
50.00	100	100
52.00	34.50	76.18#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

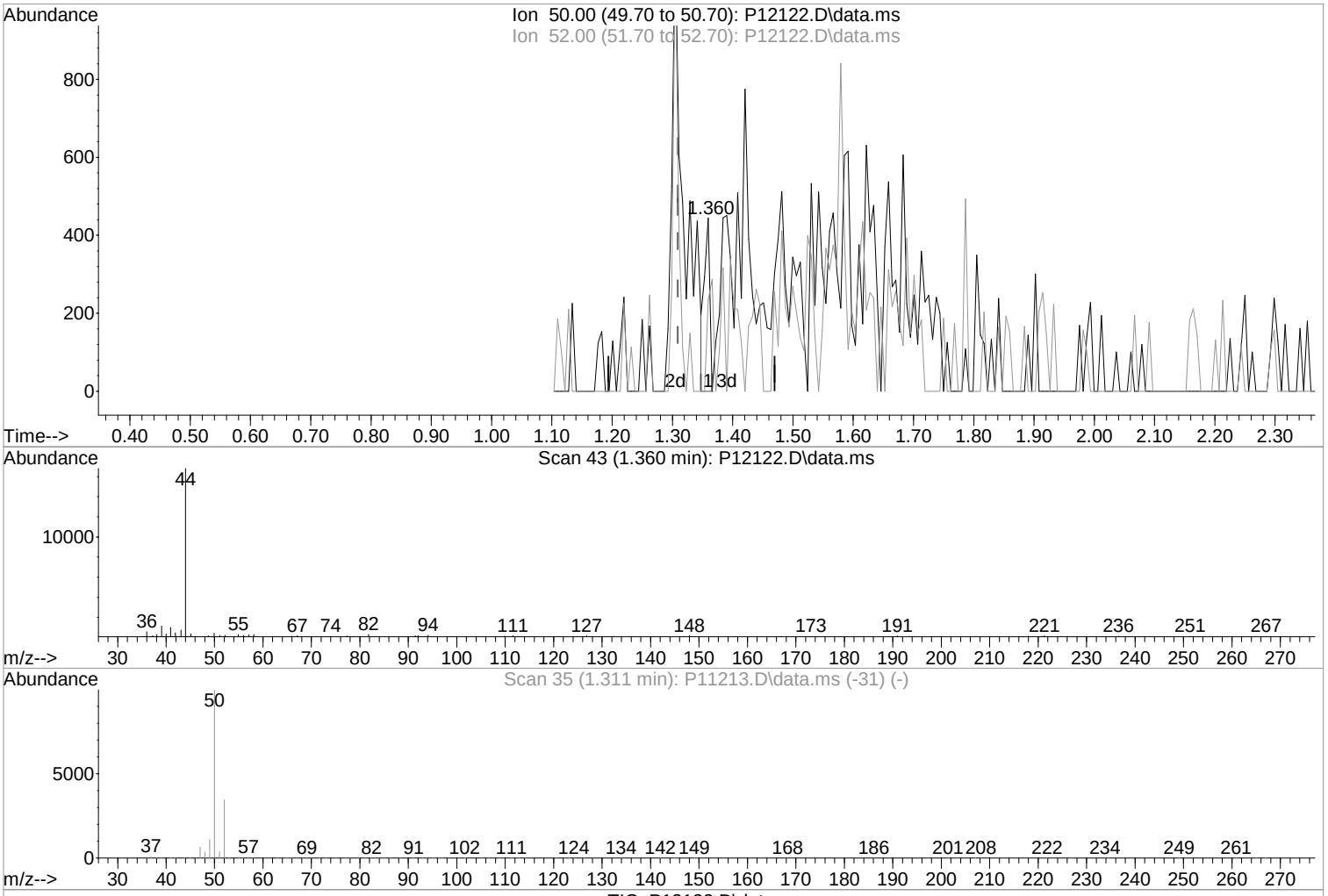
Peak not found.

09/18/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12122.D
Acq On : 15 Sep 2017 11:54 pm
Operator : K.Ruest
Sample : R1708647-018|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 18 09:53:37 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12122.D\data.ms

(3) Chloromethane (P)

1.360min (+0.051) 0.04 ppb

response 269

Ion	Exp%	Act%
50.00	100	100
52.00	34.50	52.70
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12122.D
Acq On : 15 Sep 2017 11:54 pm
Operator : K.Ruest
Sample : R1708647-018|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 18 14:02:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

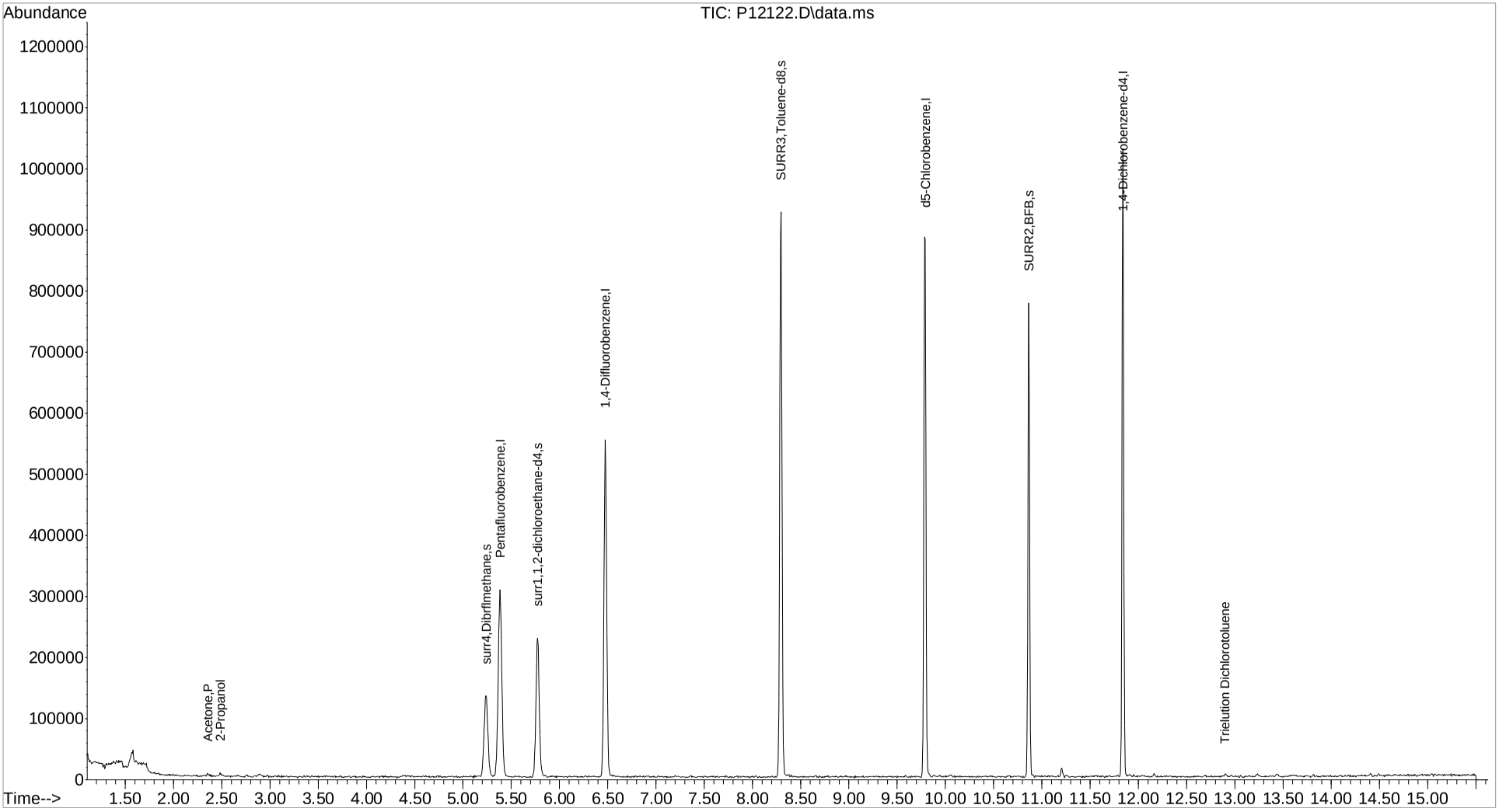
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	260840	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.475	114	425203	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	384681	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	185580	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	113710	47.95	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.90%				
48) surr1,1,2-dichloroetha...	5.773	65	179136	47.39	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 94.78%				
65) SURR3,Toluene-d8	8.297	98	537954	49.09	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.18%				
70) SURR2,BFB	10.864	95	203623	47.27	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.54%				
Target Compounds							Qvalue
15) Acetone	2.353	43	4050	1.27	ppb		79
16) 2-Propanol	2.481	45	5544	8.40	ppb		61
112) Trielution Dichlorotol...	12.894	125	1624	0.26	ppb	#	65

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

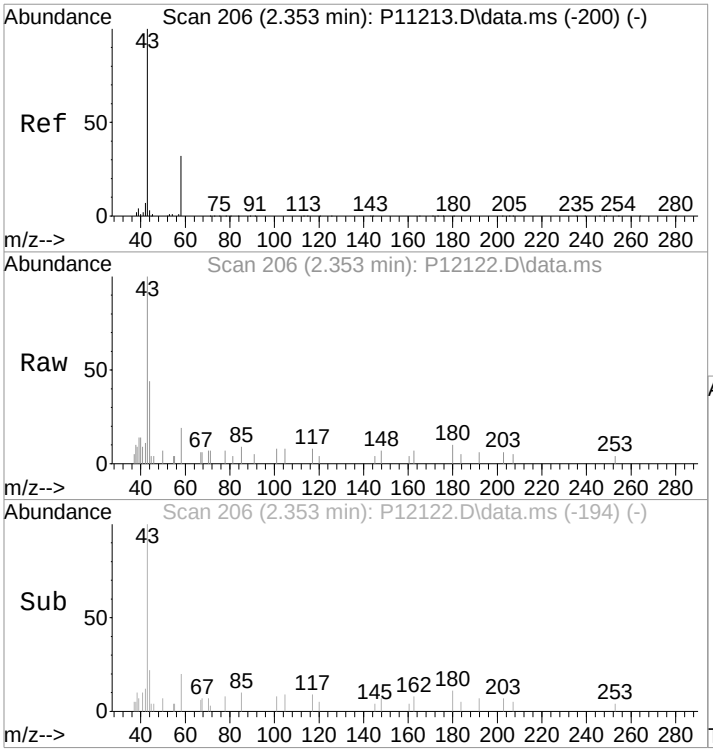
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12122.D
Acq On : 15 Sep 2017 11:54 pm
Operator : K.Ruest
Sample : R1708647-018|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 18 14:02:36 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



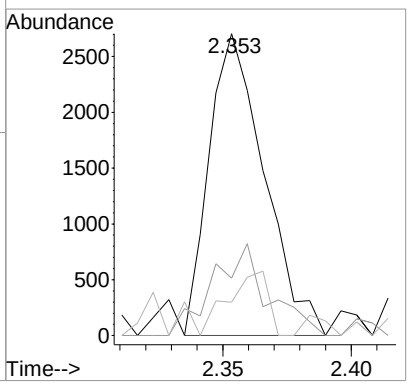
1st KR 09/18/17
2nd BA 09/20/17

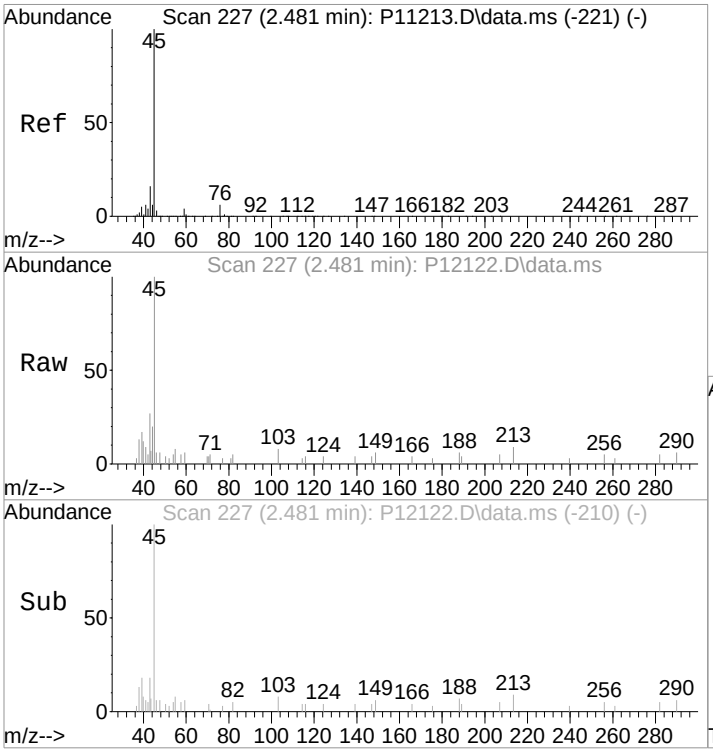


#15
Acetone
Concen: 1.27 ppb
RT: 2.353 min Scan# 206
Delta R.T. -0.004 min
Lab File: P12122.D
Acq: 15 Sep 2017 11:54 pm

Tgt Ion: 43 Resp: 4050

Ion	Ratio	Lower	Upper
43	100		
58	19.0	12.3	52.3
42	11.0	0.0	27.4

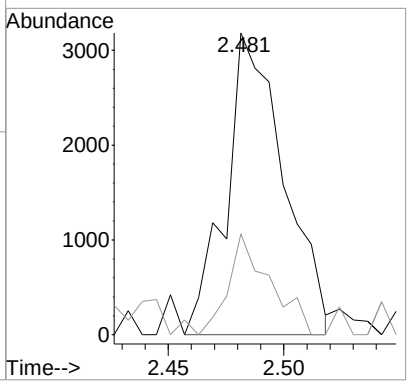


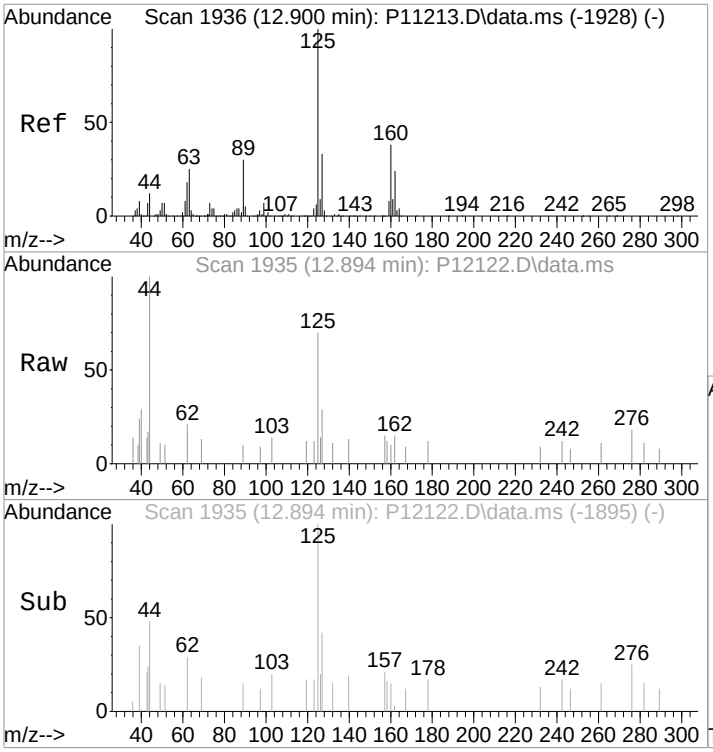


#16
2-Propanol
Concen: 8.40 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.008 min
Lab File: P12122.D
Acq: 15 Sep 2017 11:54 pm

Tgt Ion: 45 Resp: 5544

Ion	Ratio	Lower	Upper
45	100		
43	33.4	0.0	36.5

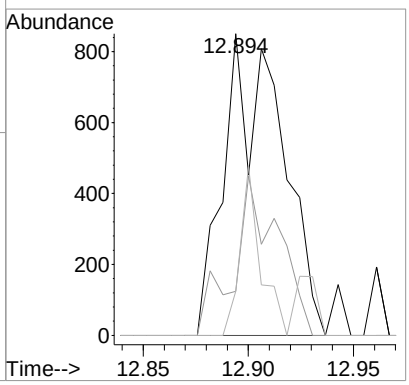




#112
Trielution Dichlorotoluene
Concen: 0.26 ppb
RT: 12.894 min Scan# 1935
Delta R.T. -0.008 min
Lab File: P12122.D
Acq: 15 Sep 2017 11:54 pm

Tgt Ion:125 Resp: 1624

Ion	Ratio	Lower	Upper
125	100		
160	14.6	30.6	46.0#
89	14.6	24.1	36.1#

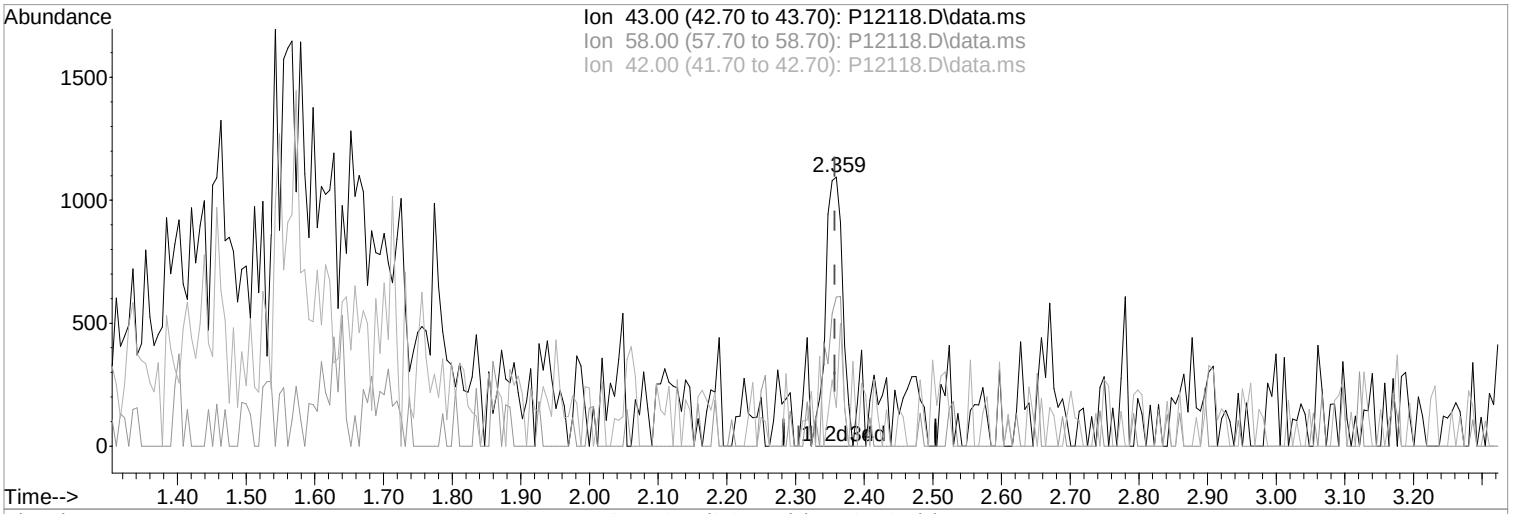


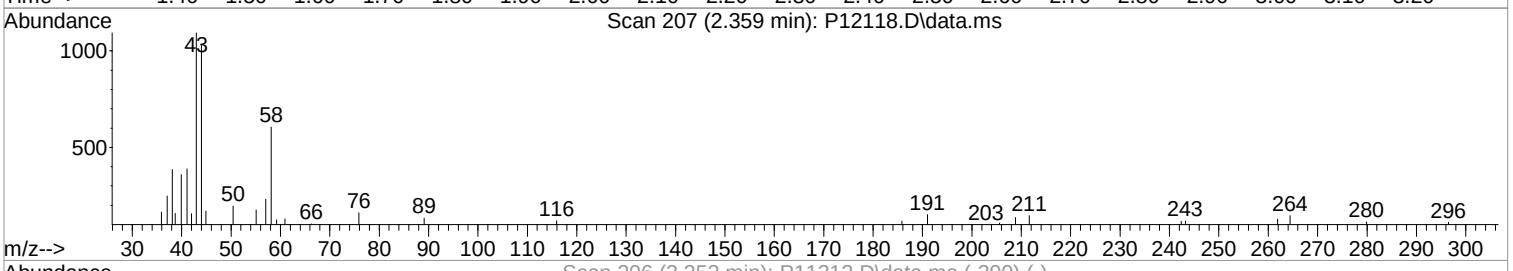
1st 09/18/17
2nd 09/20/17

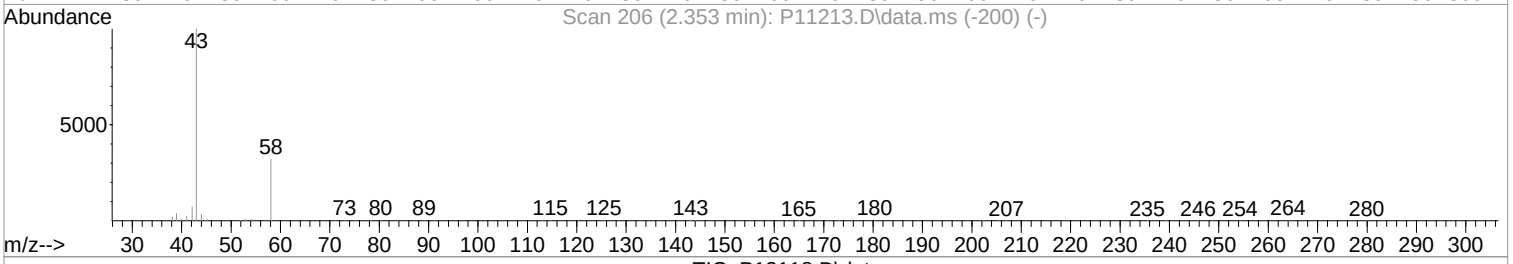
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12118.D
Acq On : 15 Sep 2017 10:27 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 18 09:34:46 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12118.D\data.ms

(15) Acetone (P)

2.359min (+0.002) 0.59 ppb m

response 1877

Ion	Exp%	Act%
43.00	100	100
58.00	32.30	55.39#
42.00	7.40	14.35
0.00	0.00	0.00

Manual Integration:

After

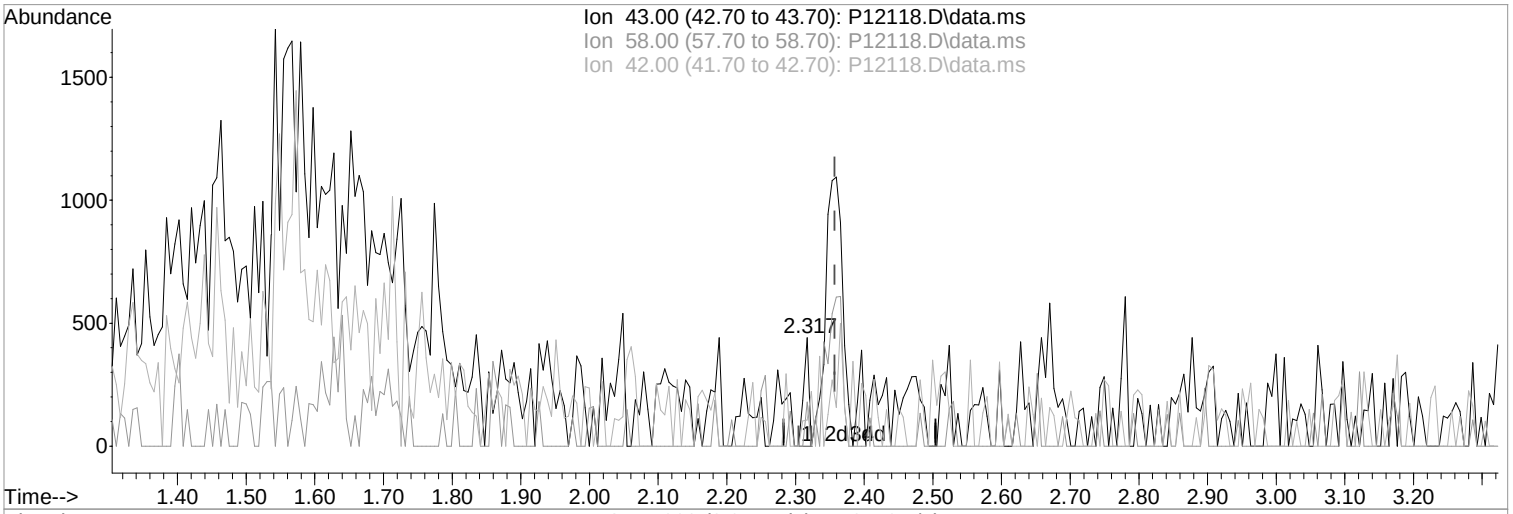
Peak not found.

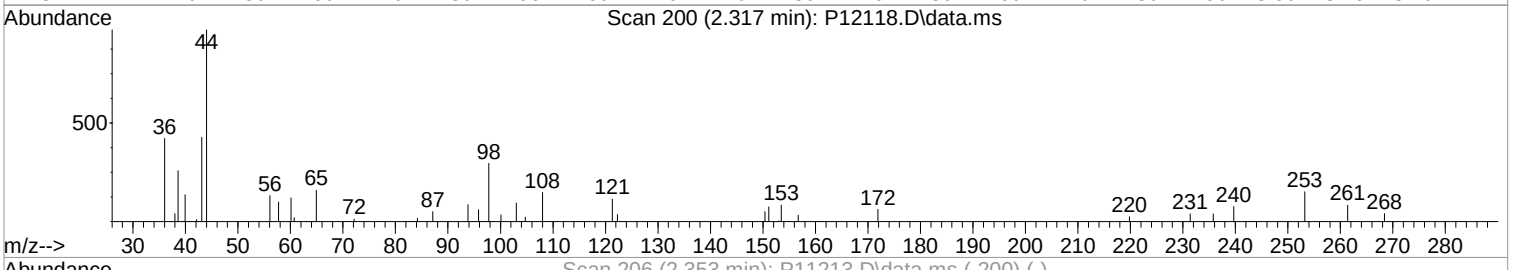
09/18/17

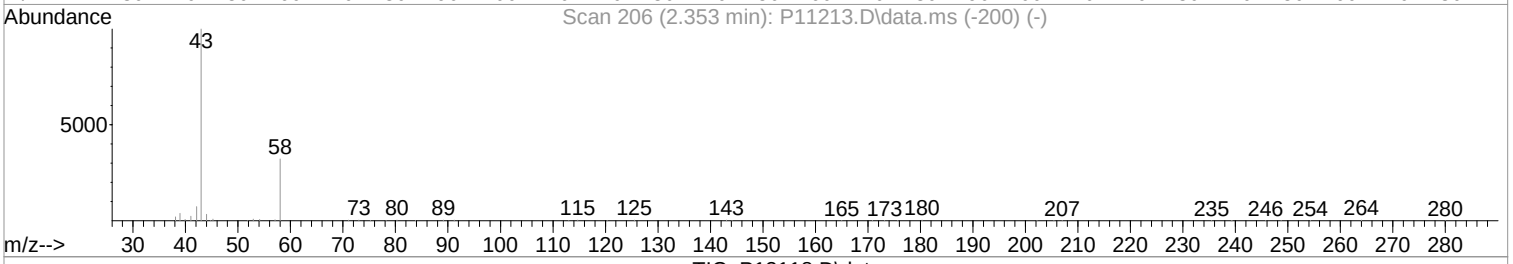
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12118.D
Acq On : 15 Sep 2017 10:27 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 18 09:34:46 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12118.D\data.ms

(15) Acetone (P)

2.317min (-0.040) 0.07 ppb

response 229

Ion	Exp%	Act%
43.00	100	100
58.00	32.30	40.59
42.00	7.40	24.26
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12118.D
Acq On : 15 Sep 2017 10:27 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 18 09:36:34 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

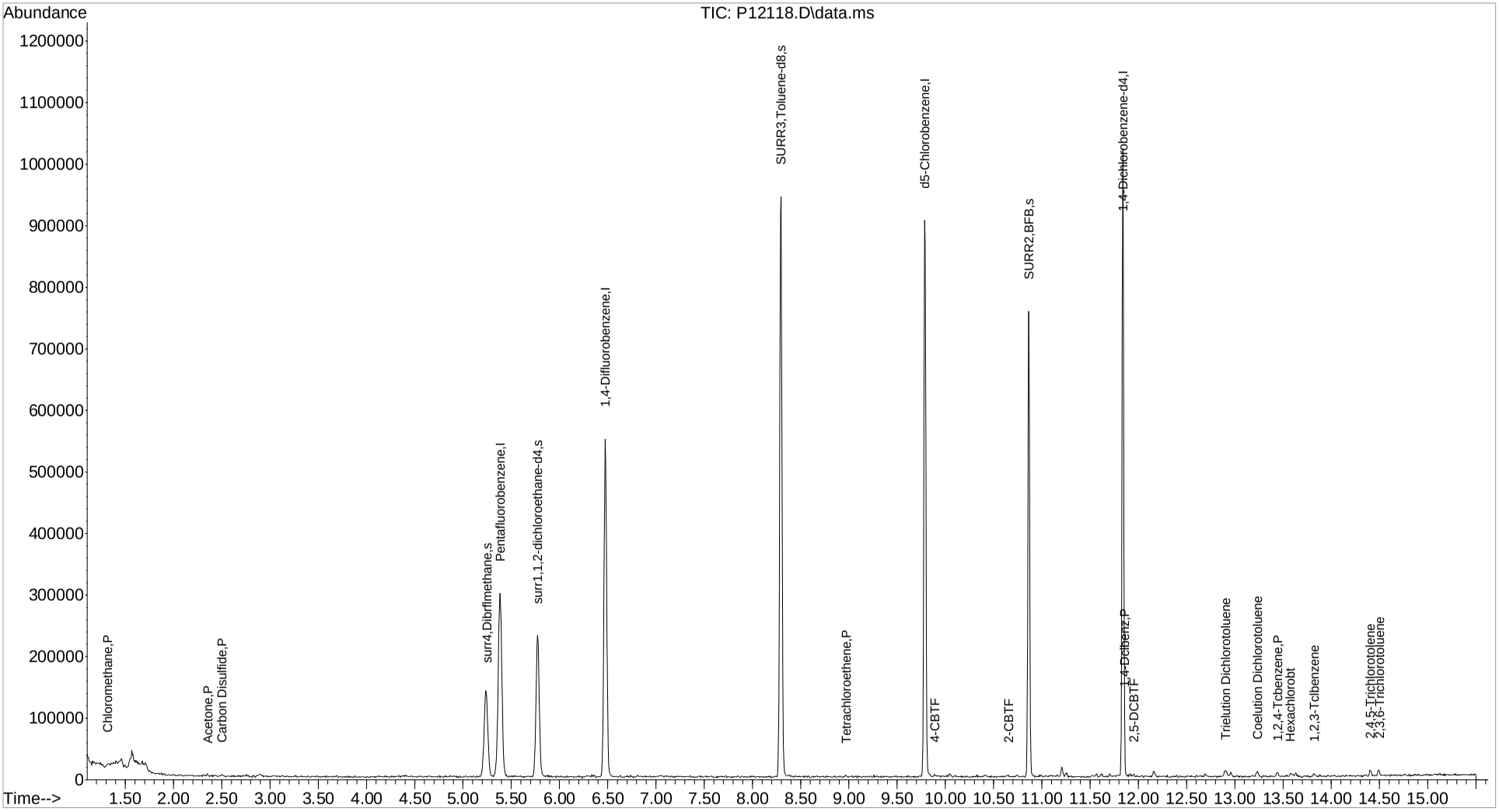
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	259188	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	428622	50.00	ppb		0.00
71) d5-Chlorobenzene	9.785	117	374834	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	188477	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	116974	48.94	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.88%				
48) surr1,1,2-dichloroetha...	5.773	65	178817	46.93	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 93.86%				
65) SURR3,Toluene-d8	8.297	98	548990	49.70	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.40%				
70) SURR2,BFB	10.864	95	204233	47.03	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.06%				
Target Compounds							Qvalue
3) Chloromethane	1.311	50	1878	0.28	ppb	#	59
15) Acetone	2.359	43	1877m	0.59	ppb		
18) Carbon Disulfide	2.500	76	1938	0.26	ppb		69
72) Tetrachloroethene	8.968	164	551	0.24	ppb	#	21
80) 4-CBTF	9.888	180	815	0.23	ppb	#	67
88) 2-CBTF	10.650	180	910	0.24	ppb	#	51
106) 1,4-Dclbenz	11.858	146	1537	0.23	ppb	#	76
108) 2,5-DCBTF	11.955	214	899	0.31	ppb	#	48
112) Trielution Dichlorotol...	12.900	125	3756	0.60	ppb	#	80
114) Coelution Dichlorotoluene	13.235	125	2411	0.35	ppb	#	49
115) 1,2,4-Tcbenzene	13.443	180	1240	0.24	ppb	#	76
116) Hexachlorobt	13.577	225	606	0.29	ppb	#	51
118) 1,2,3-Tclbenzene	13.821	180	1198	0.23	ppb		87
119) 2,4,5-Trichlorotolene	14.406	159	1782	0.43	ppb	#	69
120) 2,3,6-Trichlorotoluene	14.497	159	2193	0.57	ppb	#	68

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

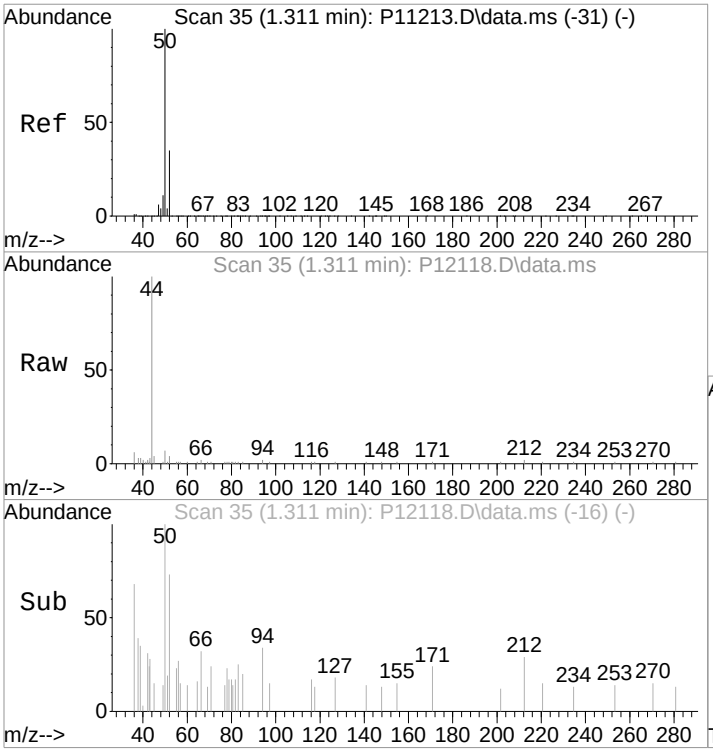
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12118.D
Acq On : 15 Sep 2017 10:27 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 18 09:36:34 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



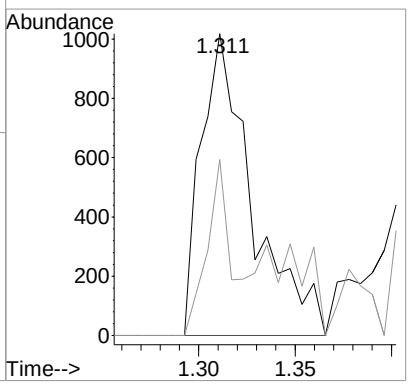
1st 09/18/17
2nd 09/20/17

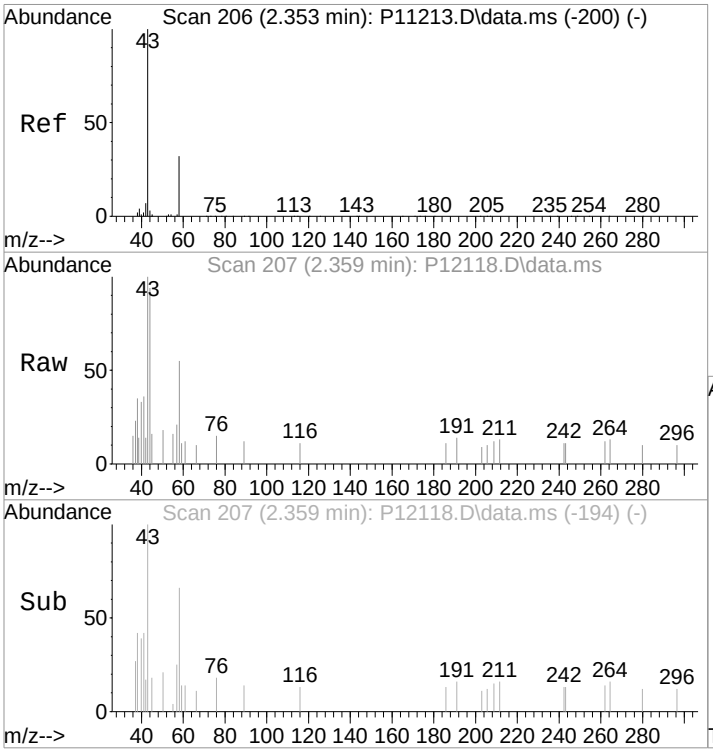


#3
Chloromethane
Concen: 0.28 ppb
RT: 1.311 min Scan# 35
Delta R.T. 0.002 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion: 50 Resp: 1878

Ion	Ratio	Lower	Upper
50	100		
52	58.3	14.5	54.5#

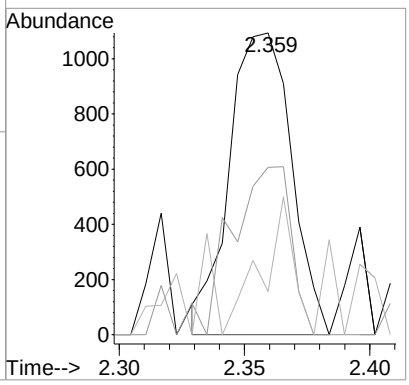


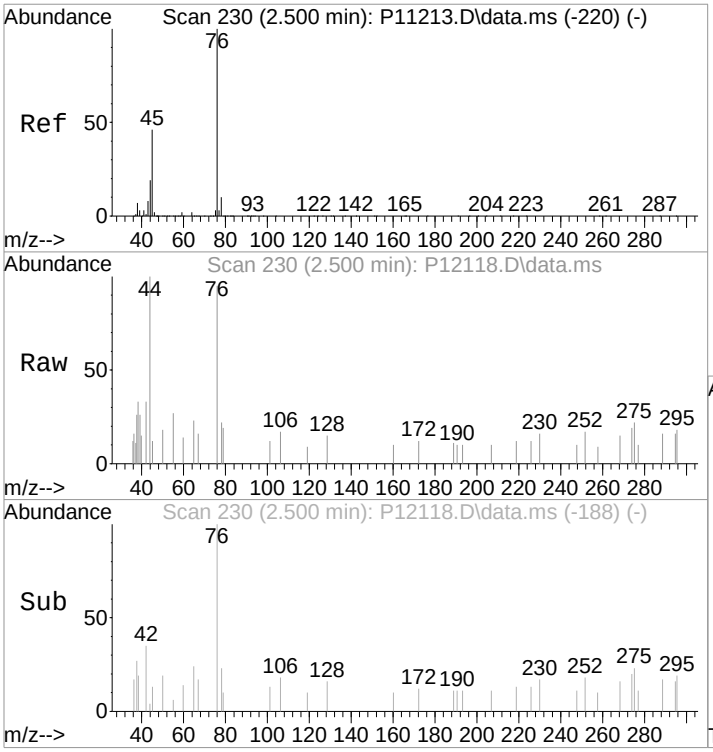


#15
Acetone
Concen: 0.59 ppb m
RT: 2.359 min Scan# 207
Delta R.T. 0.002 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion: 43 Resp: 1877

Ion	Ratio	Lower	Upper
43	100		
58	55.4	12.3	52.3#
42	14.4	0.0	27.4

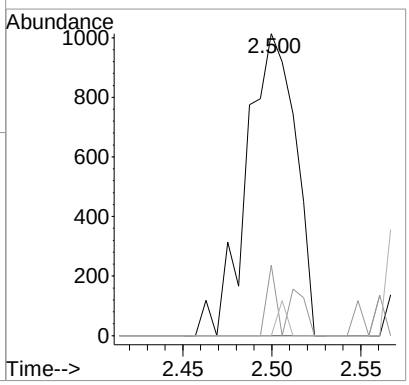


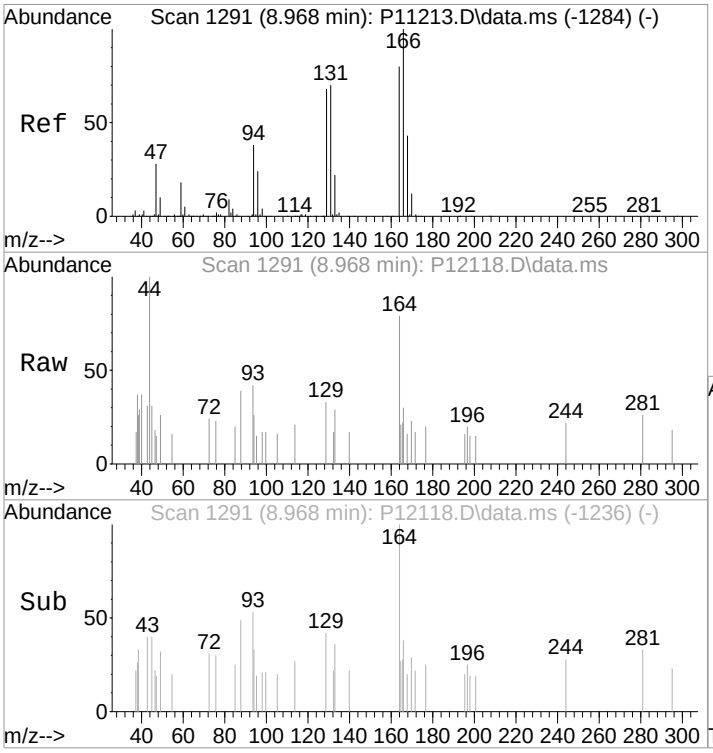


#18
Carbon Disulfide
Concen: 0.26 ppb
RT: 2.500 min Scan# 230
Delta R.T. 0.000 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion: 76 Resp: 1938

Ion	Ratio	Lower	Upper
76	100		
78	23.4	0.0	29.8
77	0.0	0.0	22.6

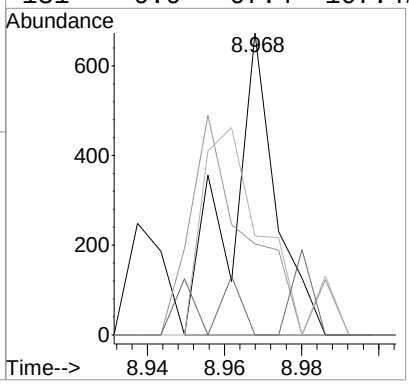


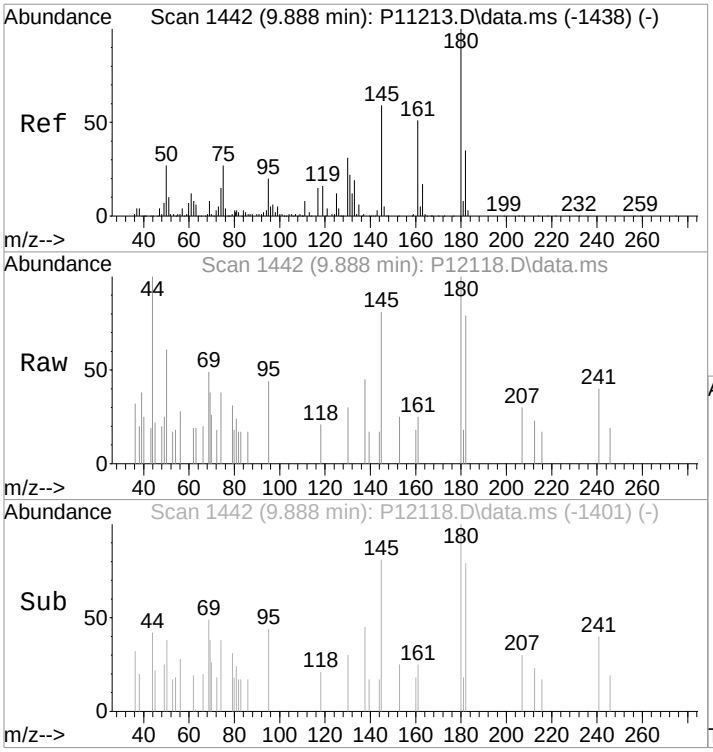


#72
Tetrachloroethene
Concen: 0.24 ppb
RT: 8.968 min Scan# 1291
Delta R.T. 0.006 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:164 Resp: 551

Ion	Ratio	Lower	Upper
164	100		
166	30.1	105.1	145.1#
129	32.8	65.3	105.3#
131	0.0	67.4	107.4#

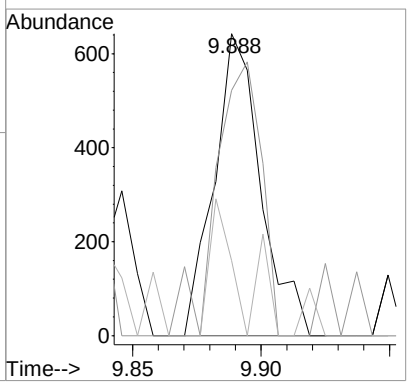


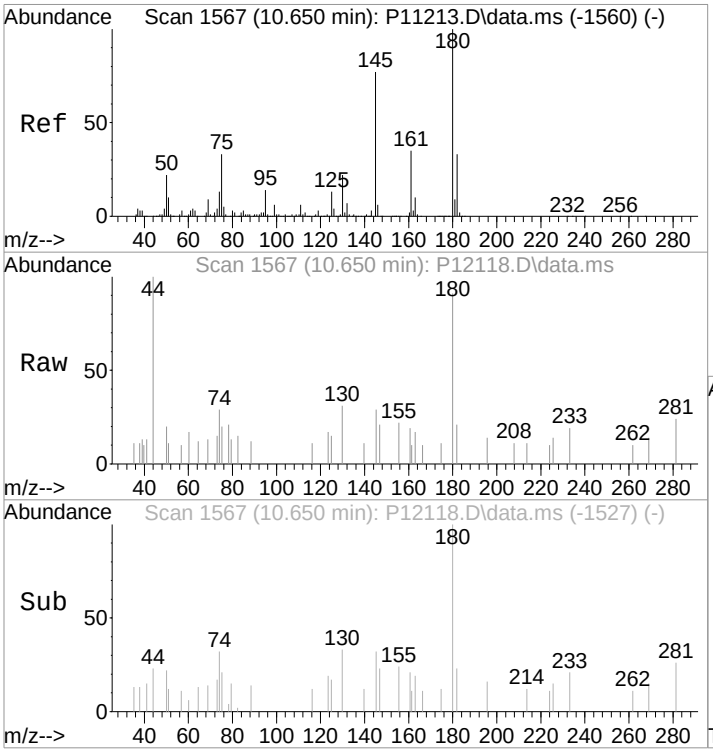


#80
4-CBTF
Concen: 0.23 ppb
RT: 9.888 min Scan# 1442
Delta R.T. 0.000 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:180 Resp: 815

Ion	Ratio	Lower	Upper
180	100		
145	81.2	39.4	79.4#
161	24.9	30.8	70.8#

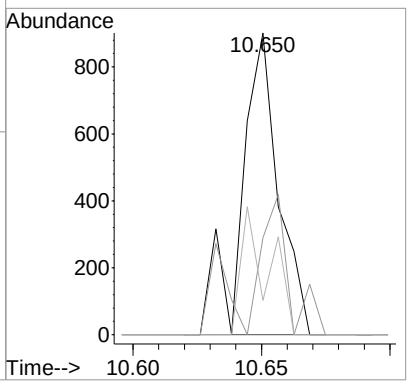


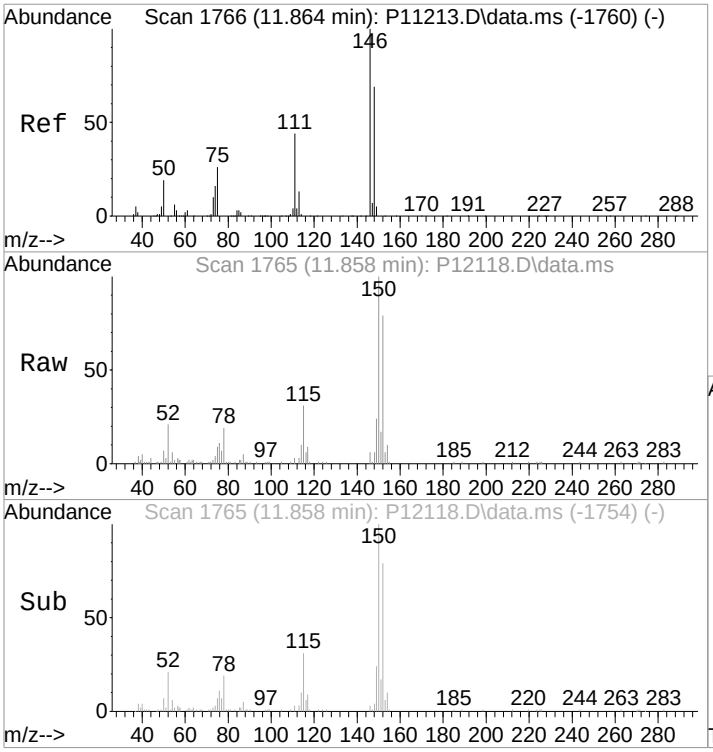


#88
2-CBTF
Concen: 0.24 ppb
RT: 10.650 min Scan# 1567
Delta R.T. -0.004 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:180 Resp: 910

Ion	Ratio	Lower	Upper
180	100		
145	32.2	61.8	92.8#
161	11.4	28.0	42.0#

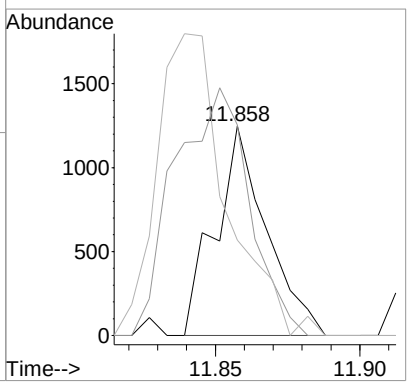


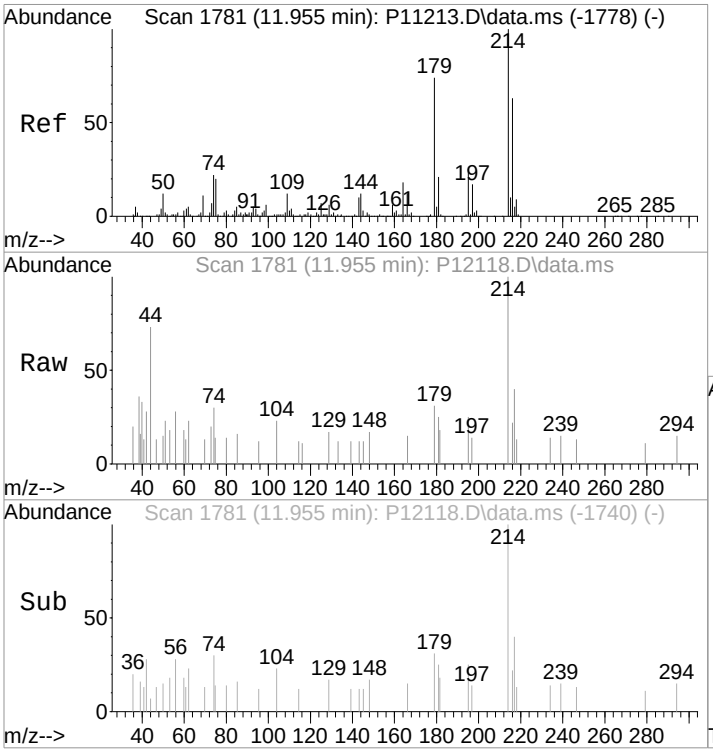


#106
1,4-Dclbenz
Concen: 0.23 ppb
RT: 11.858 min Scan# 1765
Delta R.T. -0.002 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:146 Resp: 1537

Ion	Ratio	Lower	Upper
146	100		
148	100.5	49.4	89.4#
111	45.5	24.0	64.0

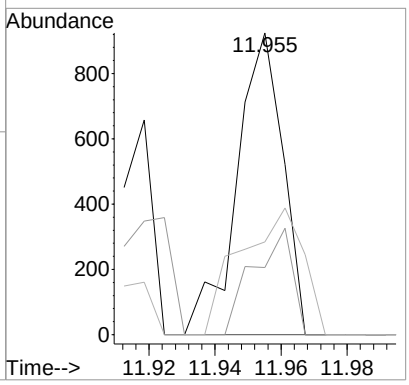


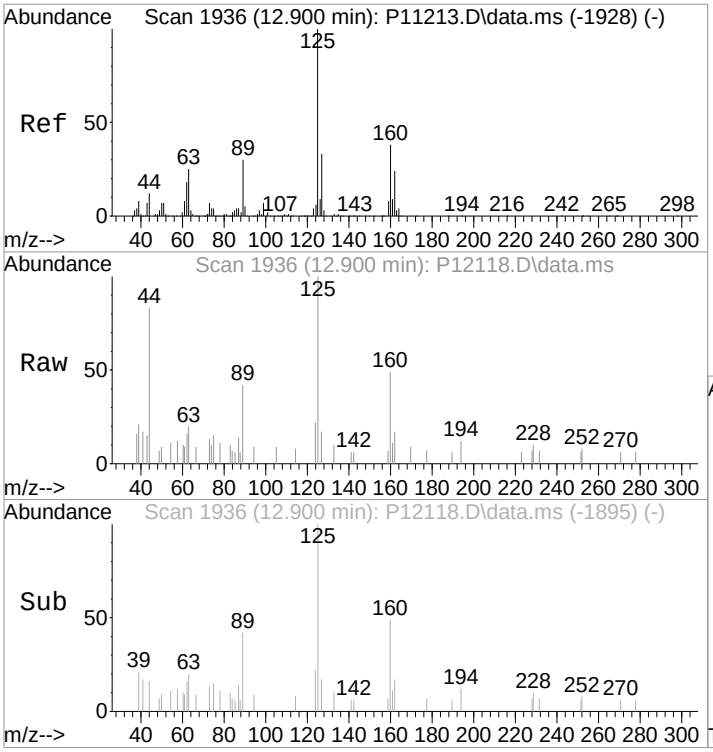


#108
2,5-DCBTF
Concen: 0.31 ppb
RT: 11.955 min Scan# 1781
Delta R.T. 0.000 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:214 Resp: 899

Ion	Ratio	Lower	Upper
214	100		
216	22.3	50.0	75.0#
179	30.7	59.2	88.8#

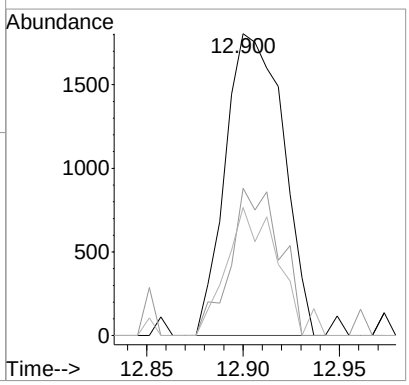


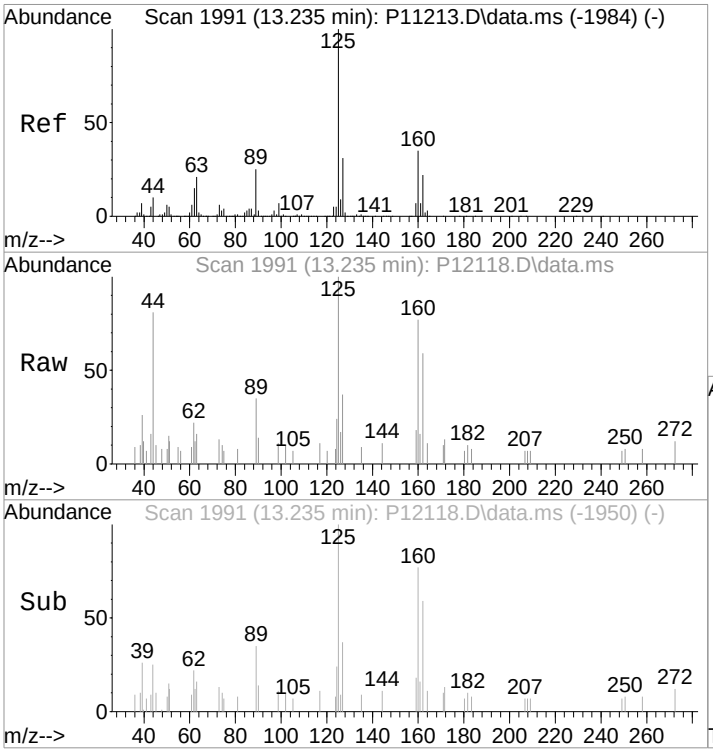


#112
Trielution Dichlorotoluene
Concen: 0.60 ppb
RT: 12.900 min Scan# 1936
Delta R.T. -0.002 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:125 Resp: 3756

Ion	Ratio	Lower	Upper
125	100		
160	48.8	30.6	46.0#
89	42.4	24.1	36.1#

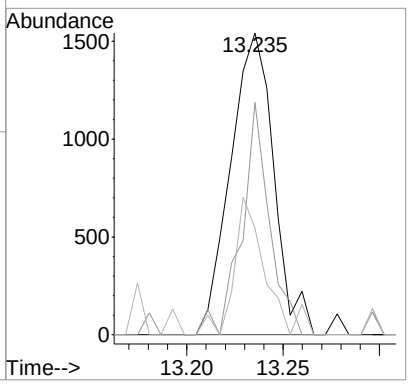


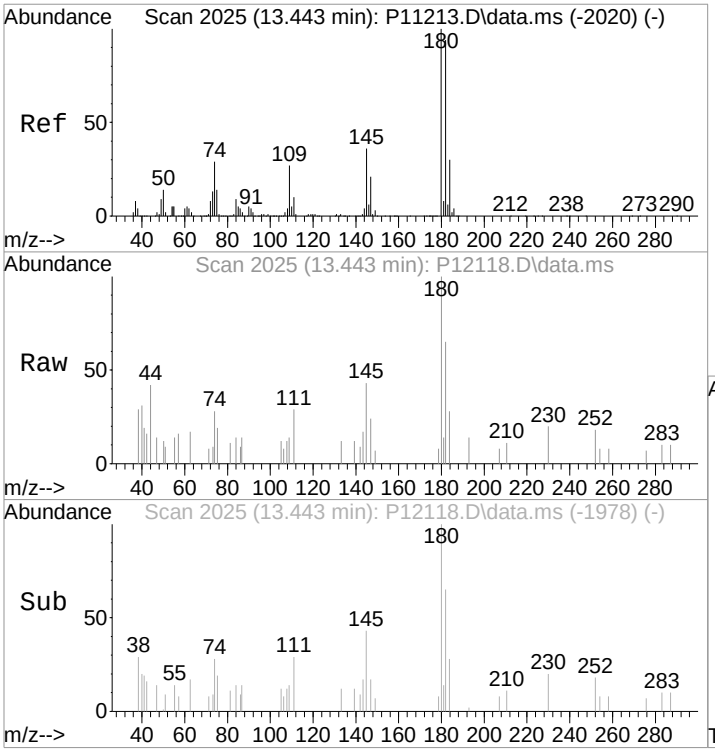


#114
Coelution Dichlorotoluene
Concen: 0.35 ppb
RT: 13.235 min Scan# 1991
Delta R.T. 0.000 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:125 Resp: 2411

Ion	Ratio	Lower	Upper
125	100		
160	77.0	27.9	41.9#
89	35.3	19.9	29.9#

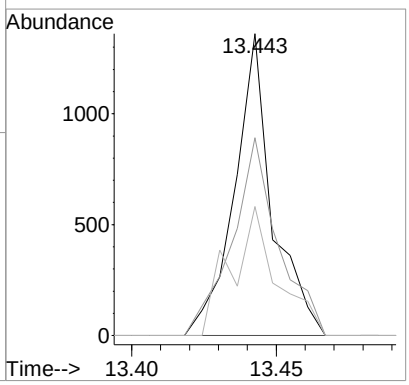


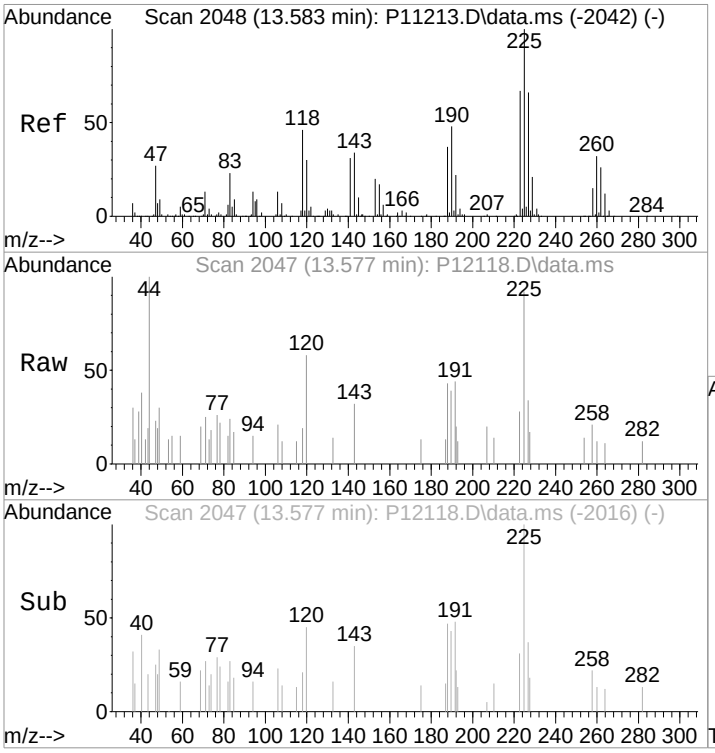


#115
1,2,4-Tcbenzene
Concen: 0.24 ppb
RT: 13.443 min Scan# 2025
Delta R.T. -0.004 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:180 Resp: 1240

Ion	Ratio	Lower	Upper
180	100		
182	65.5	73.6	113.6#
145	42.7	15.8	55.8

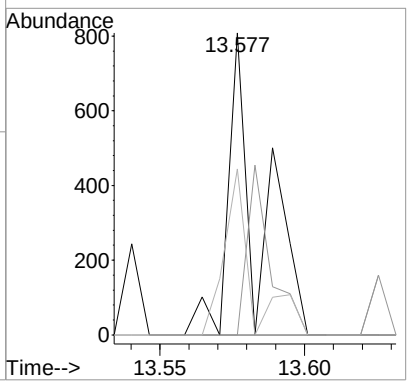


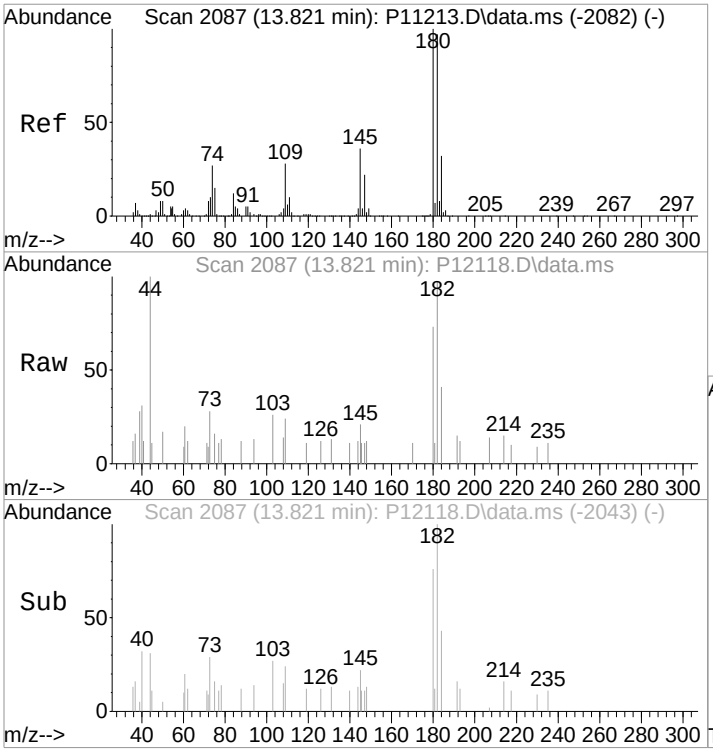


#116
Hexachlorobt
Concen: 0.29 ppb
RT: 13.577 min Scan# 2047
Delta R.T. -0.002 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:225 Resp: 606

Ion	Ratio	Lower	Upper
225	100		
223	0.0	46.8	86.8#
227	54.9	45.6	85.6

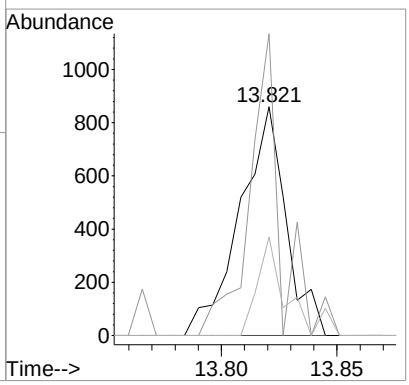


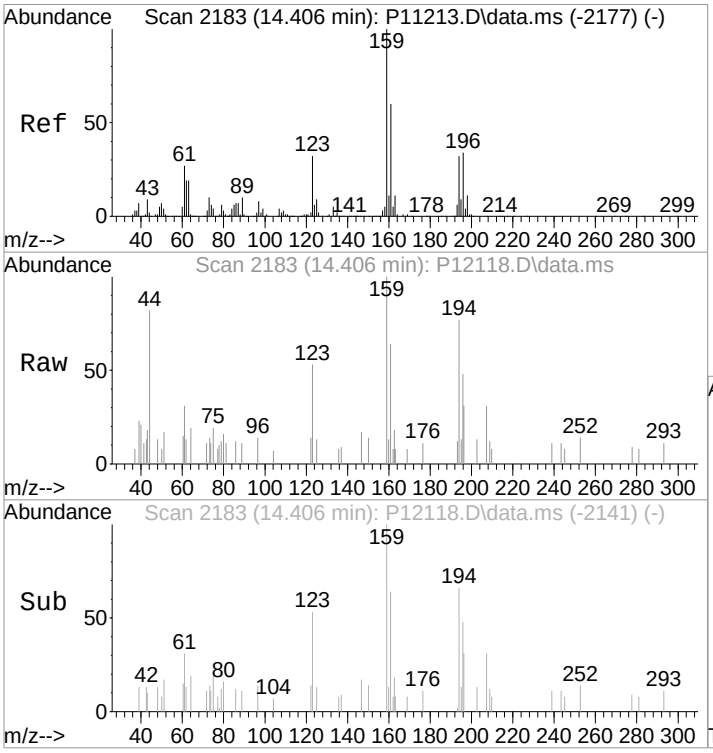


#118
1,2,3-Tclbenzene
Concen: 0.23 ppb
RT: 13.821 min Scan# 2087
Delta R.T. 0.000 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:180 Resp: 1198

Ion	Ratio	Lower	Upper
180	100		
182	114.1	76.9	116.9
145	37.3	16.2	56.2

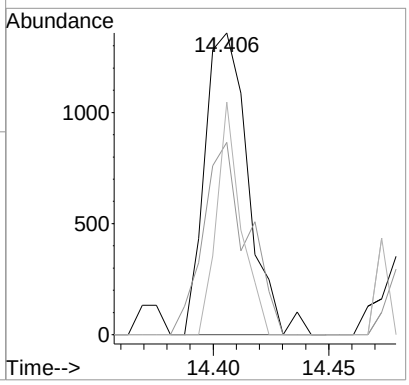


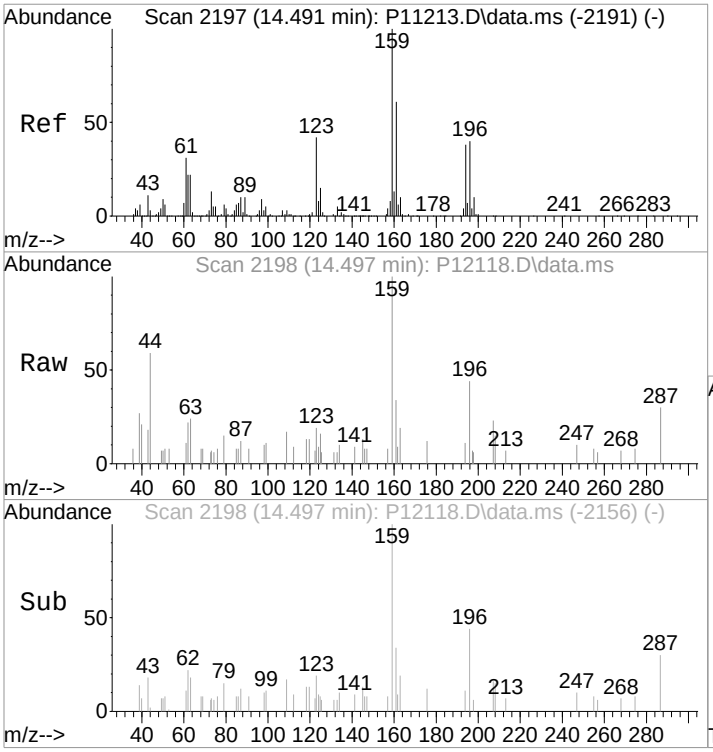


#119
2,4,5-Trichlorotolene
Concen: 0.43 ppb
RT: 14.406 min Scan# 2183
Delta R.T. 0.004 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:159 Resp: 1782

Ion	Ratio	Lower	Upper
159	100		
161	63.7	48.3	72.5
194	77.0	25.8	38.6#

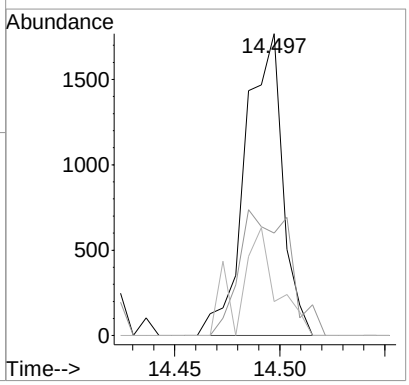




#120
2,3,6-Trichlorotoluene
Concen: 0.57 ppb
RT: 14.497 min Scan# 2198
Delta R.T. 0.006 min
Lab File: P12118.D
Acq: 15 Sep 2017 10:27 pm

Tgt Ion:159 Resp: 2193

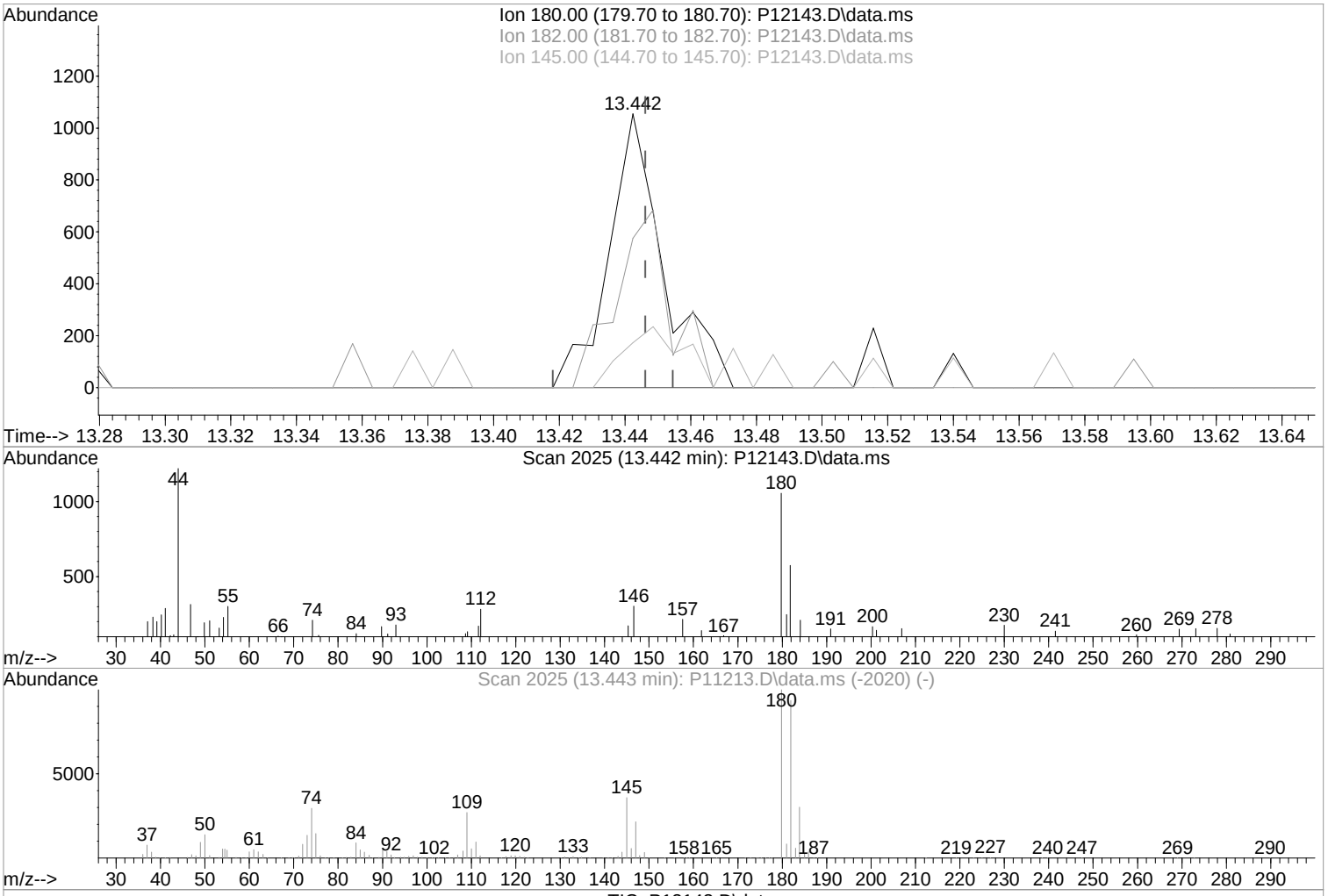
Ion	Ratio	Lower	Upper
159	100		
161	42.8	49.0	73.6#
194	11.3	30.2	45.4#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 12:20:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12143.D\data.ms

(115) 1,2,4-Tcbenzene (P)

13.442min (-0.004) 0.24 ppb m

response 1226

Ion	Exp%	Act%
180.00	100	100
182.00	93.60	54.50#
145.00	35.80	16.40
0.00	0.00	0.00

Manual Integration:

After

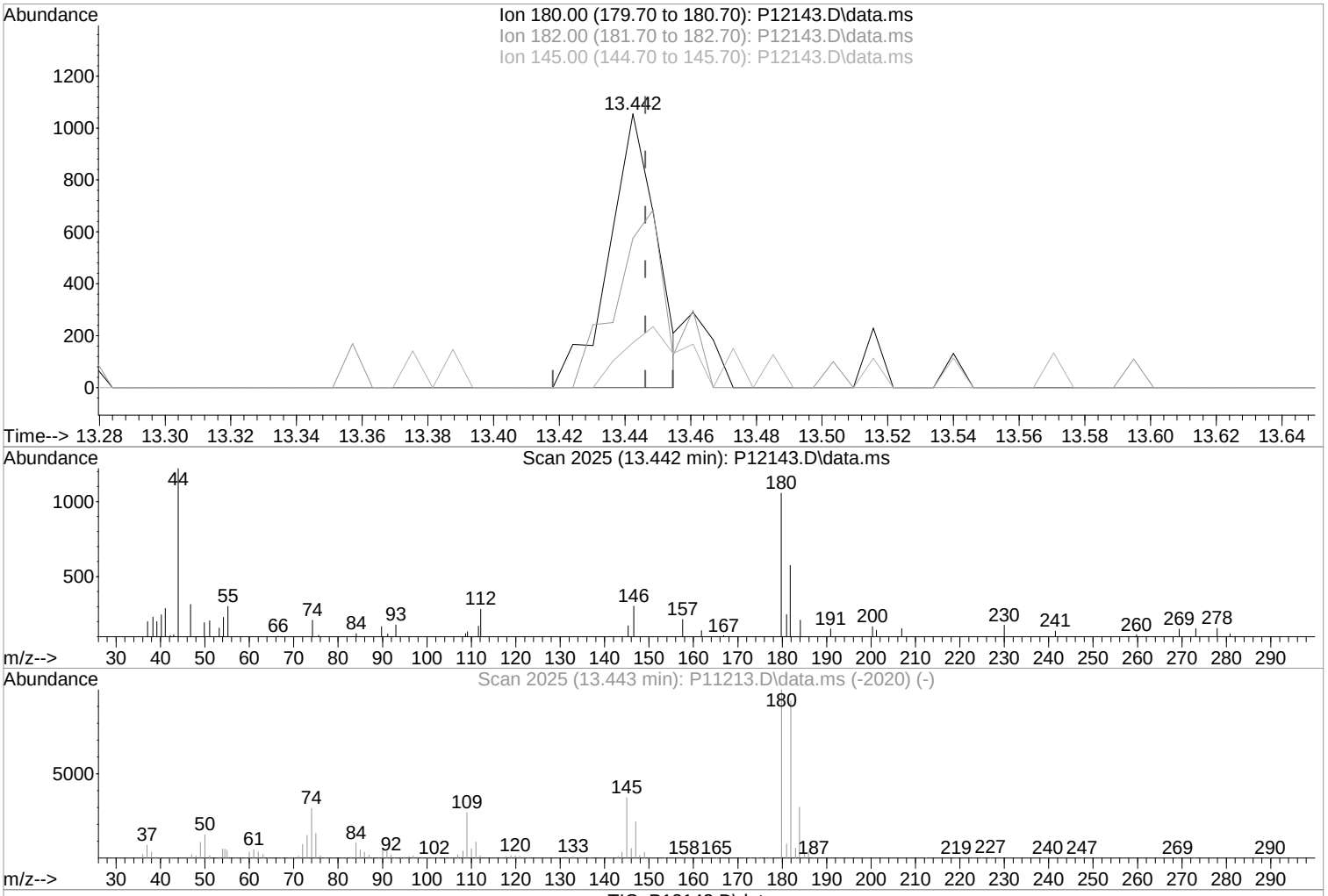
Split Peak

09/18/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 12:20:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12143.D\data.ms

(115) 1,2,4-Tcbenzene (P)

13.442min (-0.004) 0.21 ppb

response 1053

Ion	Exp%	Act%
180.00	100	100
182.00	93.60	54.50#
145.00	35.80	16.40
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 16:11:46 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

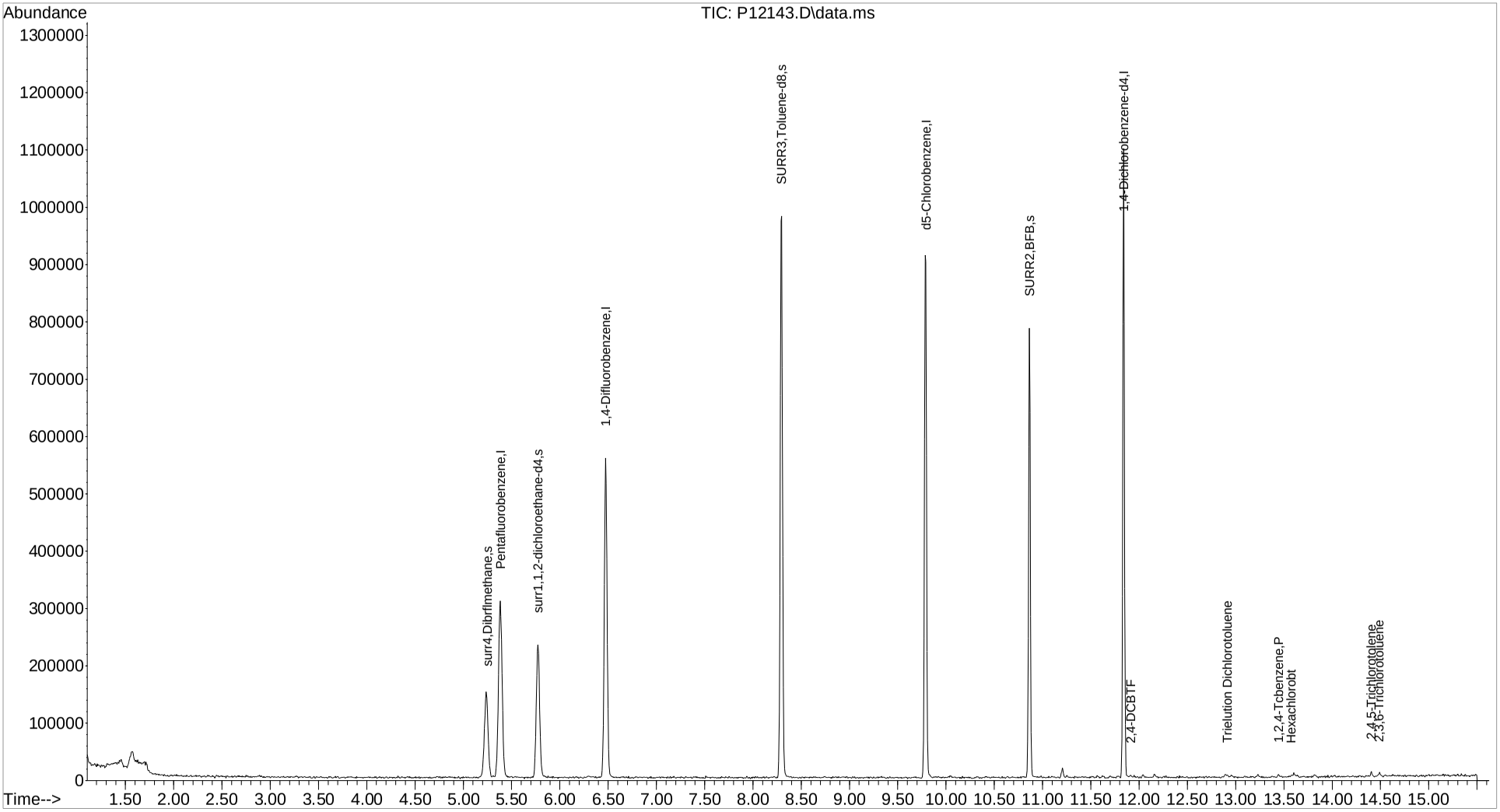
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	270041	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	439756	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	392565	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	190238	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	122267	49.86	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.72%				
48) surr1,1,2-dichloroetha...	5.773	65	188270	48.16	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 96.32%				
65) SURR3,Toluene-d8	8.297	98	572480	50.52	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.04%				
70) SURR2,BFB	10.864	95	212462	47.69	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.38%				
Target Compounds							Qvalue
107) 2,4-DCBTF	11.912	214	678	0.26	ppb	#	33
112) Trielution Dichlorotol...	12.912	125	2206	0.35	ppb	#	63
115) 1,2,4-Tcbenzene	13.442	180	1226m	0.24	ppb		
116) Hexachlorobt	13.577	225	566	0.27	ppb		79
119) 2,4,5-Trichlorotolene	14.406	159	1091	0.26	ppb	#	68
120) 2,3,6-Trichlorotoluene	14.485	159	1042	0.27	ppb	#	73

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

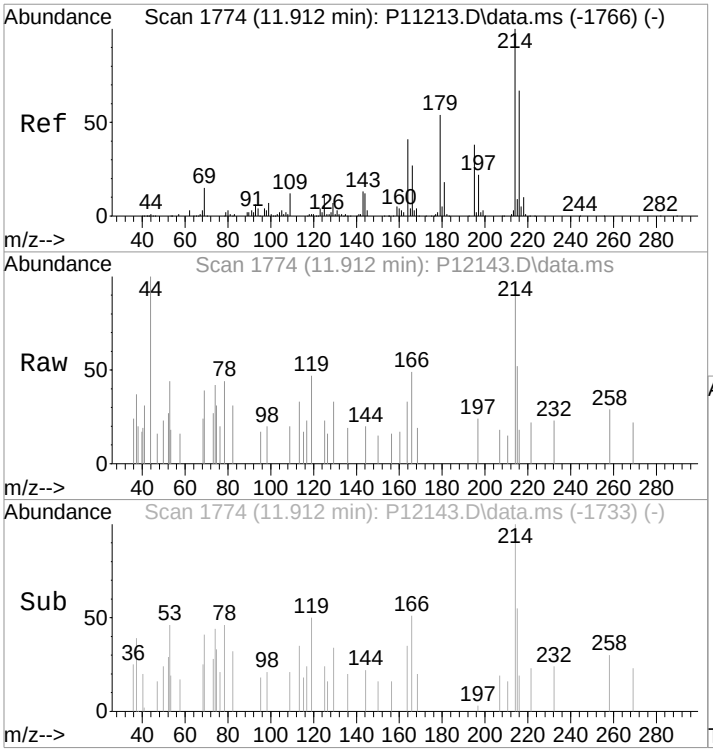
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 16:11:46 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



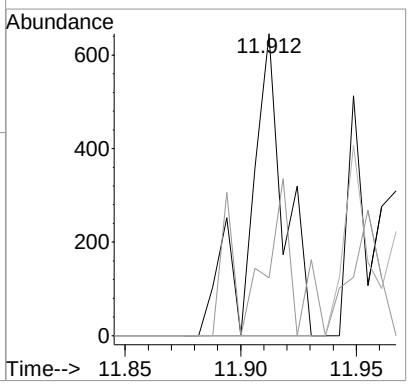
1st 09/18/17
2nd 09/19/17

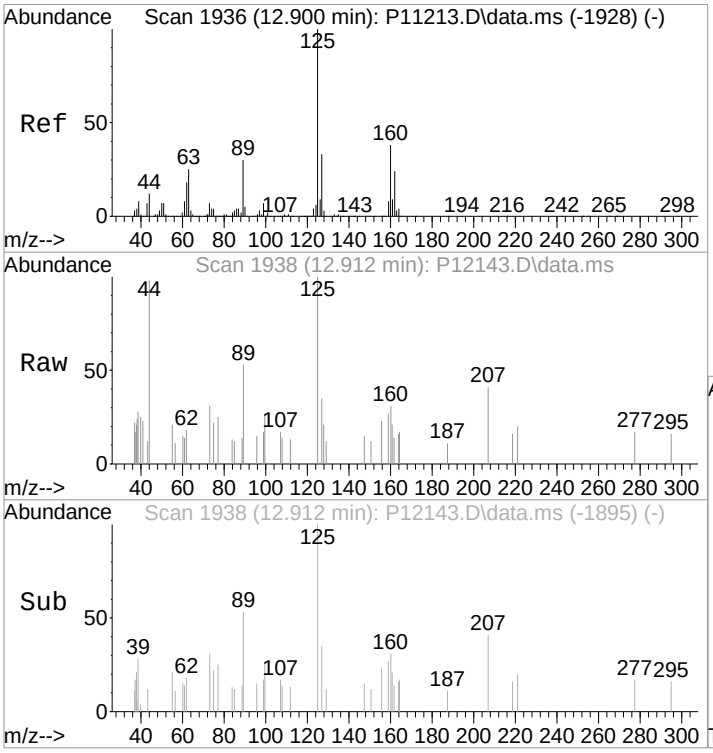


#107
2,4-DCBTF
Concen: 0.26 ppb
RT: 11.912 min Scan# 1774
Delta R.T. -0.001 min
Lab File: P12143.D
Acq: 18 Sep 2017 12:05 pm

Tgt Ion:214 Resp: 678

Ion	Ratio	Lower	Upper
214	100		
216	19.2	53.4	80.0#
179	0.0	43.4	65.2#

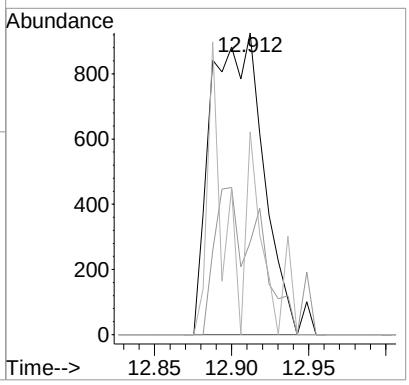


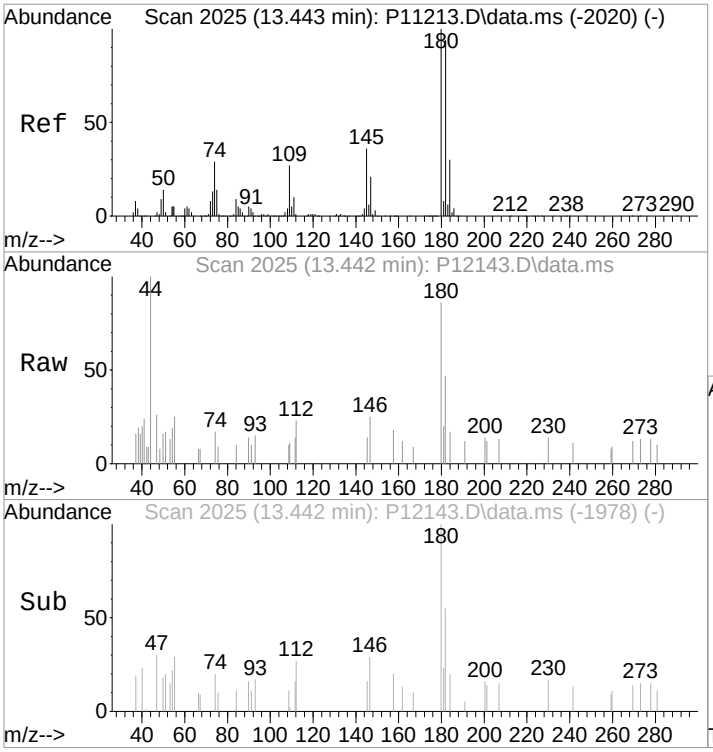


#112
Trielution Dichlorotoluene
Concen: 0.35 ppb
RT: 12.912 min Scan# 1938
Delta R.T. 0.010 min
Lab File: P12143.D
Acq: 18 Sep 2017 12:05 pm

Tgt Ion:125 Resp: 2206

Ion	Ratio	Lower	Upper
125	100		
160	30.7	30.6	46.0
89	67.2	24.1	36.1#

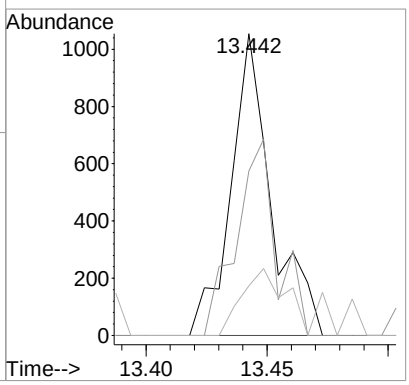


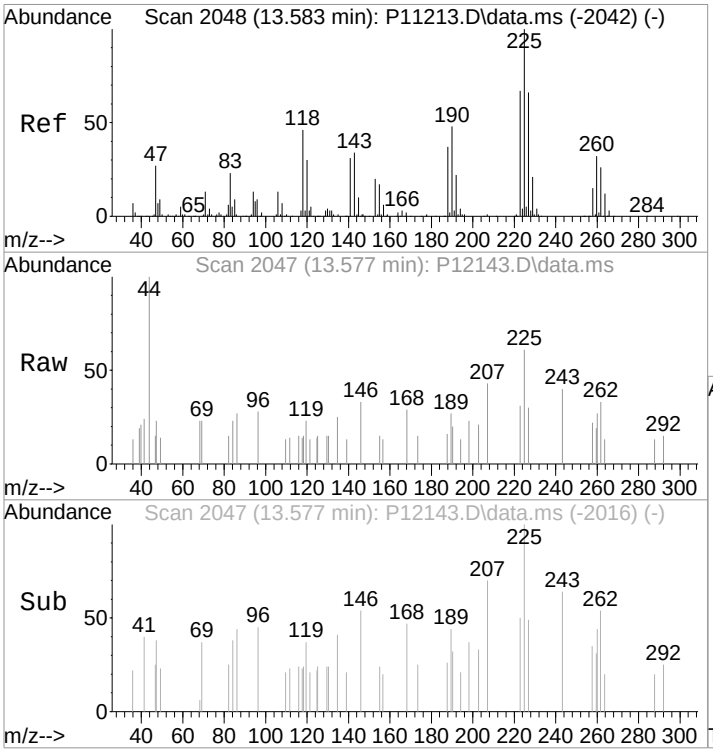


#115
1,2,4-Tcbenzene
Concen: 0.24 ppb m
RT: 13.442 min Scan# 2025
Delta R.T. -0.004 min
Lab File: P12143.D
Acq: 18 Sep 2017 12:05 pm

Tgt Ion:180 Resp: 1226

Ion	Ratio	Lower	Upper
180	100		
182	54.5	73.6	113.6#
145	16.4	15.8	55.8

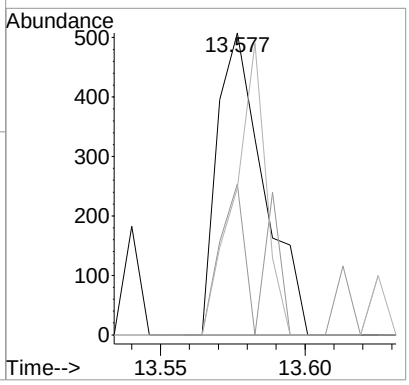


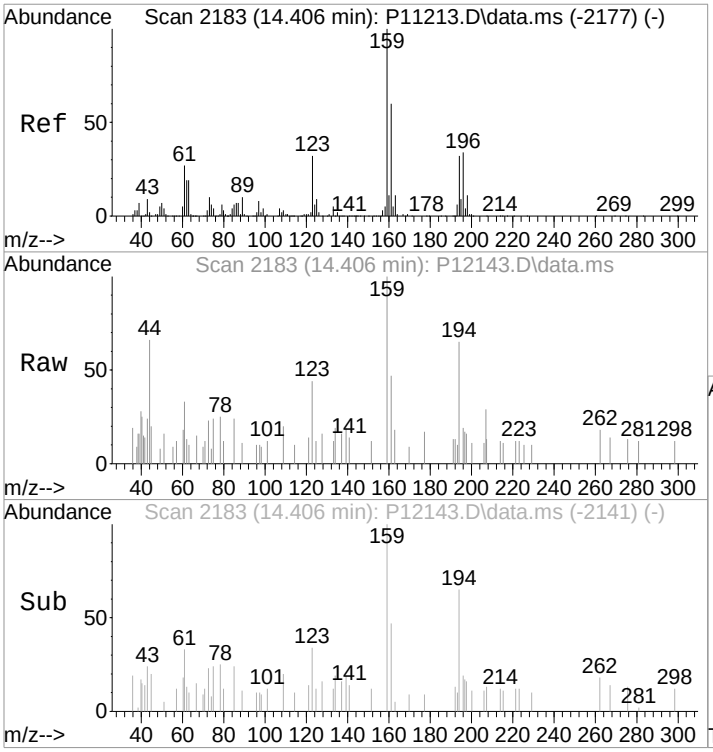


#116
Hexachlorobt
Concen: 0.27 ppb
RT: 13.577 min Scan# 2047
Delta R.T. -0.002 min
Lab File: P12143.D
Acq: 18 Sep 2017 12:05 pm

Tgt Ion:225 Resp: 566

Ion	Ratio	Lower	Upper
225	100		
223	50.0	46.8	86.8
227	48.6	45.6	85.6

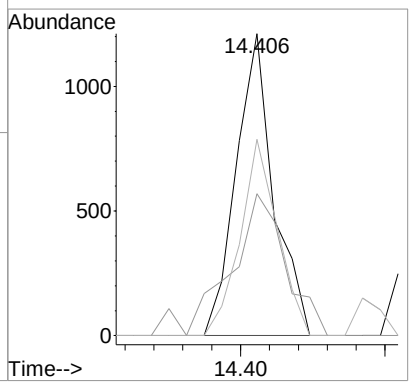


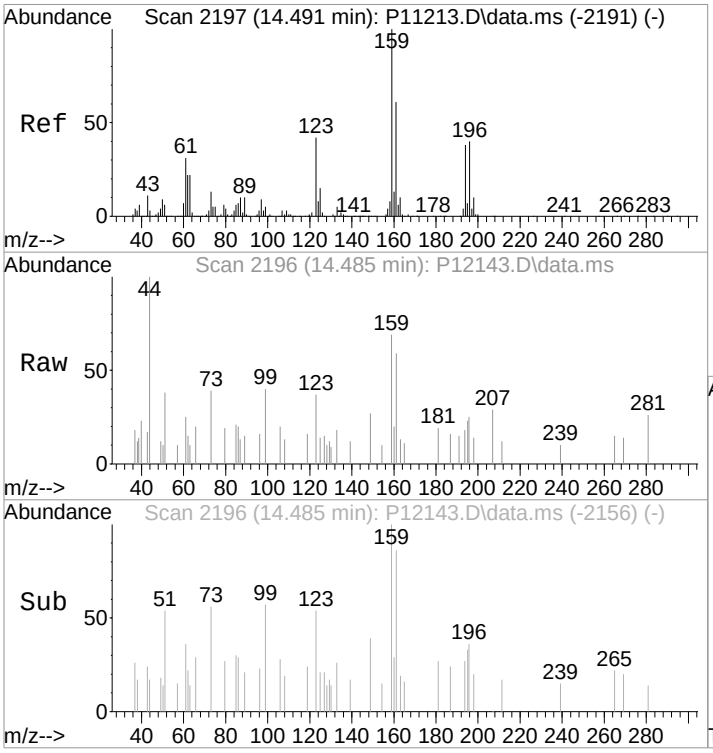


#119
2,4,5-Trichlorotolene
Concen: 0.26 ppb
RT: 14.406 min Scan# 2183
Delta R.T. 0.004 min
Lab File: P12143.D
Acq: 18 Sep 2017 12:05 pm

Tgt Ion:159 Resp: 1091

Ion	Ratio	Lower	Upper
159	100		
161	46.9	48.3	72.5#
194	65.0	25.8	38.6#

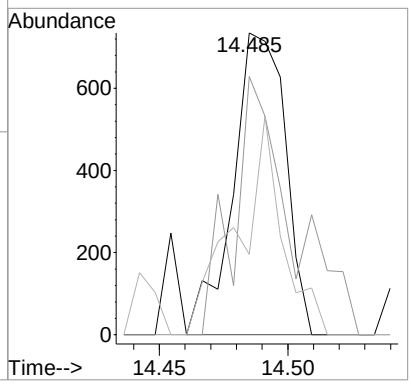




#120
2,3,6-Trichlorotoluene
Concen: 0.27 ppb
RT: 14.485 min Scan# 2196
Delta R.T. -0.006 min
Lab File: P12143.D
Acq: 18 Sep 2017 12:05 pm

Tgt Ion:159 Resp: 1042

Ion	Ratio	Lower	Upper
159	100		
161	85.6	49.0	73.6#
194	26.7	30.2	45.4#



1st KR 09/18/17
2nd BA 09/19/17

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: P12143.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.573	69	78	83	rBV9	28320	89261	5.50%	1.084%
2	5.237	669	679	689	rVV3	148467	388290	23.92%	4.715%
3	5.383	693	703	716	rVB	307827	810903	49.96%	9.847%
4	5.773	757	767	777	rBV	232150	567987	34.99%	6.897%
5	6.474	874	882	897	rVB	557948	1120253	69.02%	13.603%
6	8.297	1174	1181	1191	rBV	980015	1623162	100.00%	19.710%
7	9.785	1418	1425	1438	rBV	912684	1327632	81.79%	16.121%
8	10.864	1596	1602	1612	rBV	784374	990744	61.04%	12.030%
9	11.205	1653	1658	1663	rBV3	17733	24933	1.54%	0.303%
10	11.839	1757	1762	1768	rBV	1097776	1292119	79.61%	15.690%

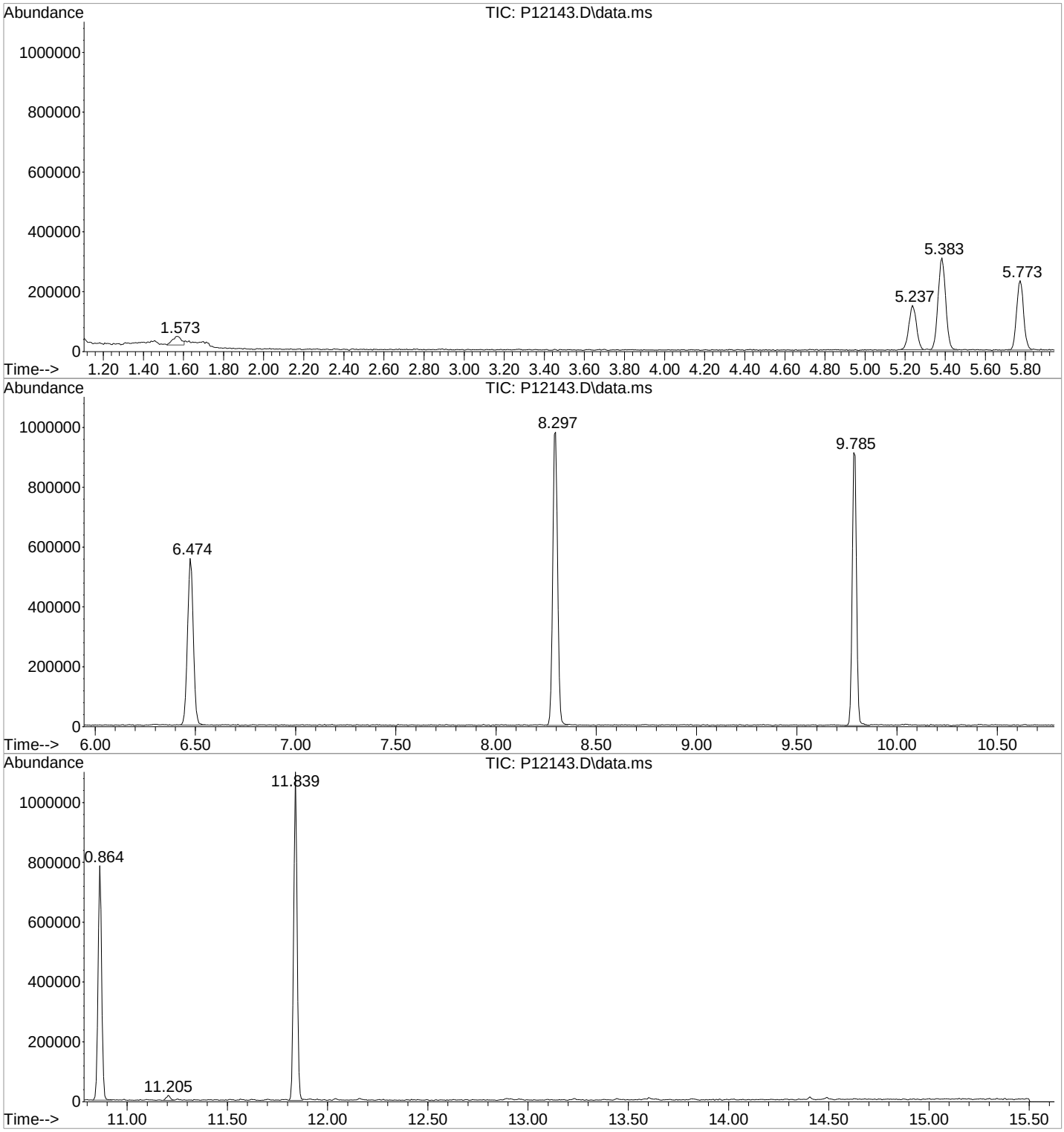
Sum of corrected areas: 8235284

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

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



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

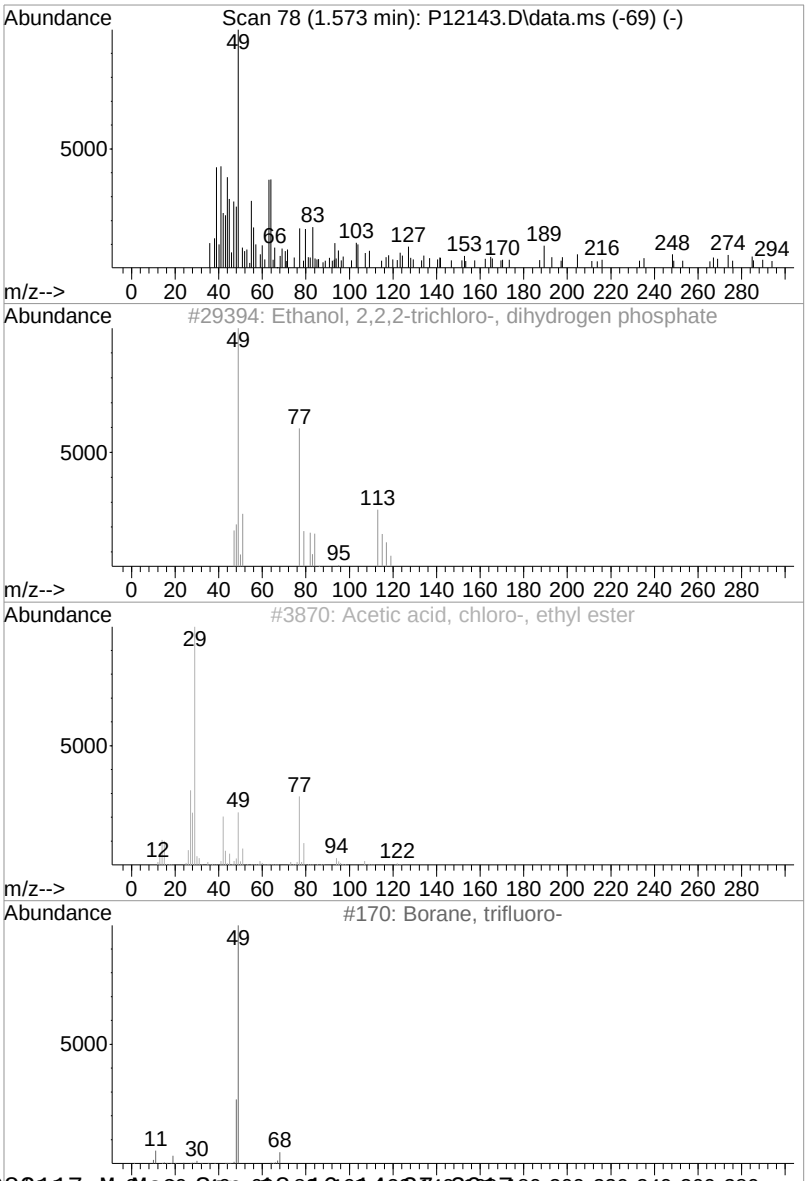
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

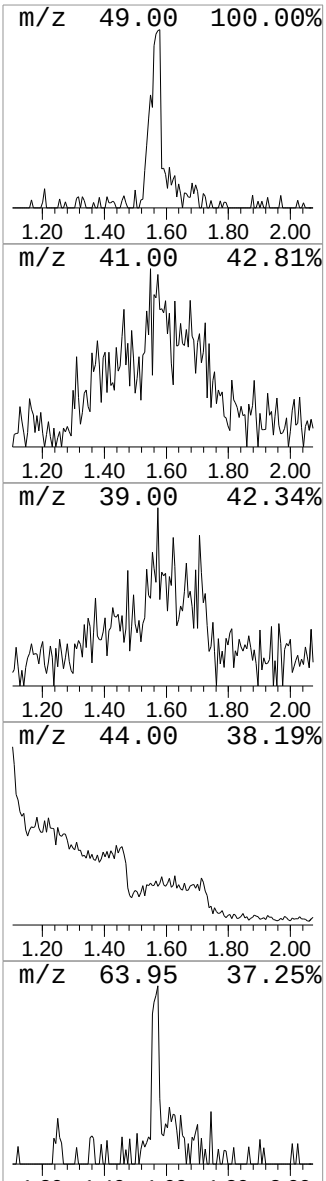
****

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.573	5.50 ppb	89261	Pentafluorobenzene	5.383

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2,2,2-trichloro-, dihyd...	228	C2H4Cl3O4P	000306-52-5	72
2	Acetic acid, chloro-, ethyl ester	122	C4H7ClO2	000105-39-5	9
3	Borane, trifluoro-	68	BF3	007637-07-2	9
4	Ethanol, 2,2,2-trichloro-	148	C2H3Cl3O	000115-20-8	9
5	Ethanol, 2-chloro-	80	C2H5ClO	000107-07-3	4





Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12143.D
Acq On : 18 Sep 2017 12:05 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

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

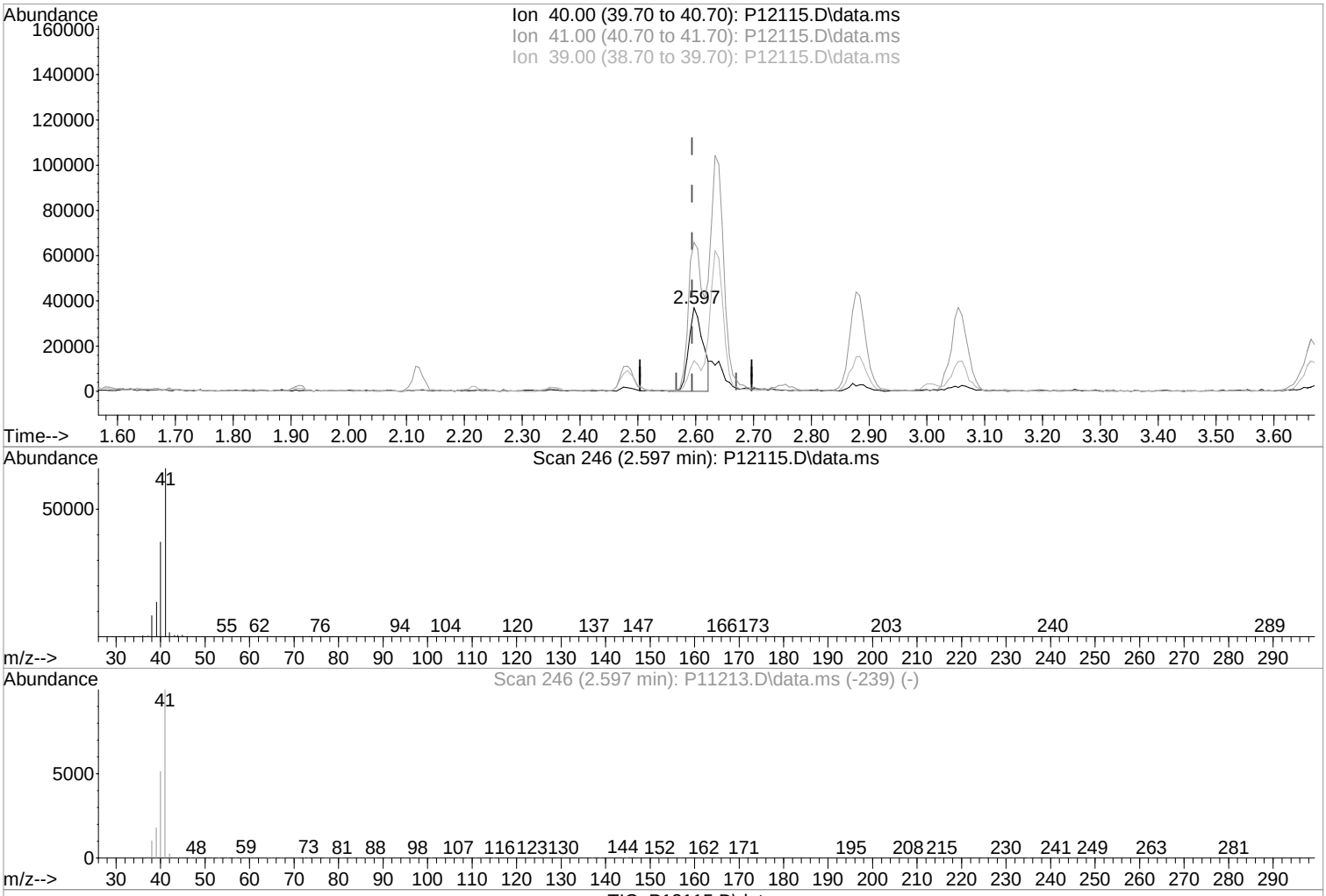
					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	1.573	5.5	ppb	89261	1	5.383	810903	50.0

1st 09/18/17
2nd 09/20/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 18 09:29:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12115.D\data.ms

(19) Acetonitrile

2.597min (+0.003) 104.60 ppb m

response 63231

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	177.99
39.00	35.40	36.63
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

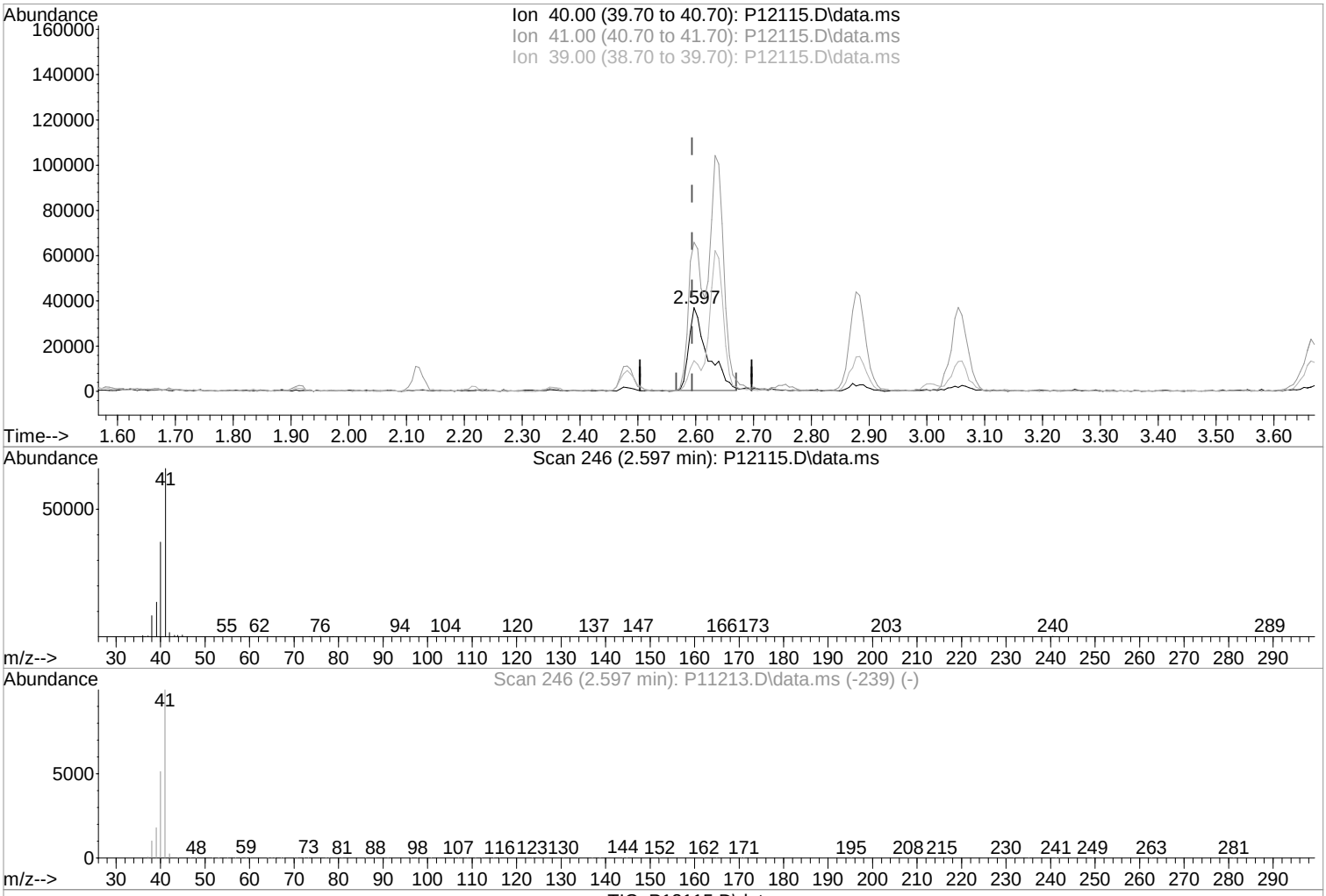
09/18/17

1st 09/18/17
2nd 09/20/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 18 09:29:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12115.D\data.ms

(19) Acetonitrile

2.597min (+0.003) 136.73 ppb

response 82652

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	177.99
39.00	35.40	36.63
0.00	0.00	0.00

Manual Integration:

Before

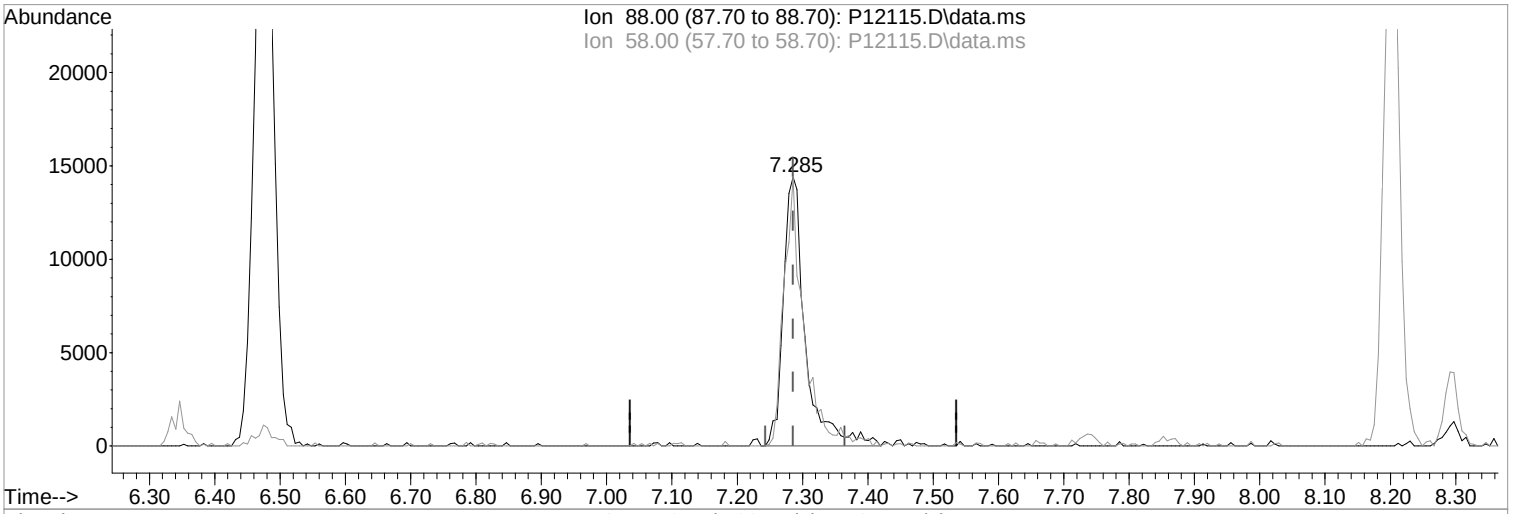
09/18/17

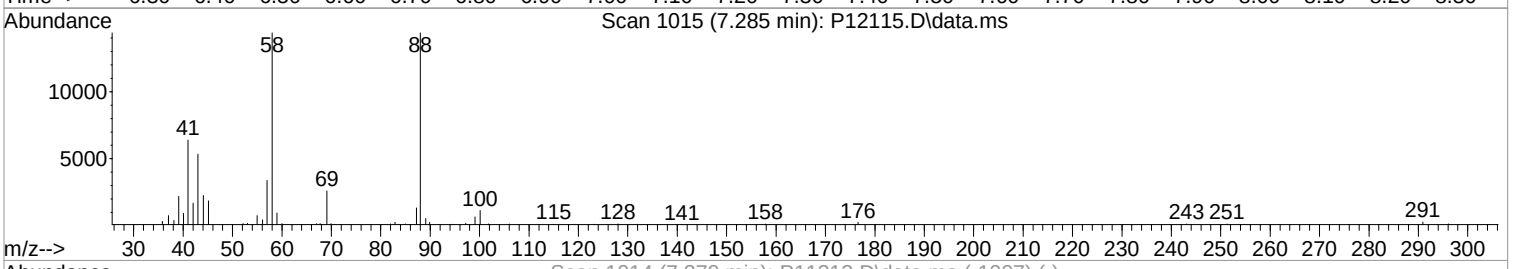
1st 09/18/17
2nd 09/20/17

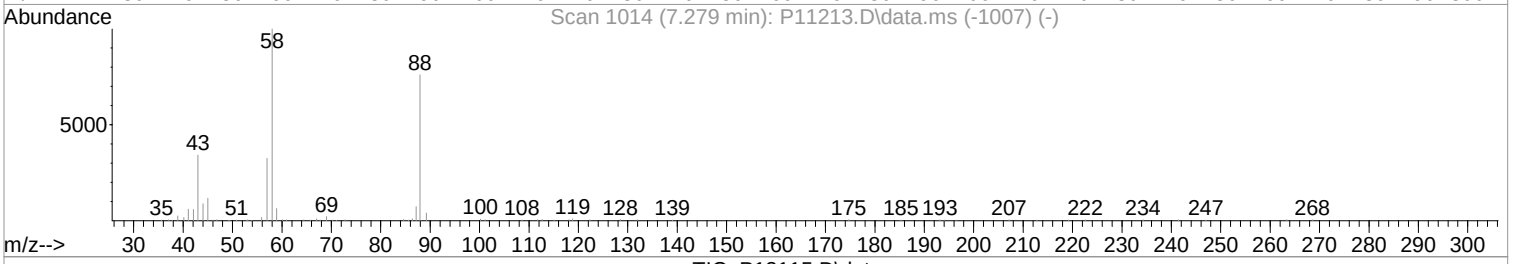
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 18 09:29:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12115.D\data.ms

(58) 1,4-Dioxane

7.285min (-0.000) 449.40 ppb m

response 33783

Ion	Exp%	Act%
88.00	100	100
58.00	130.90	99.85#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

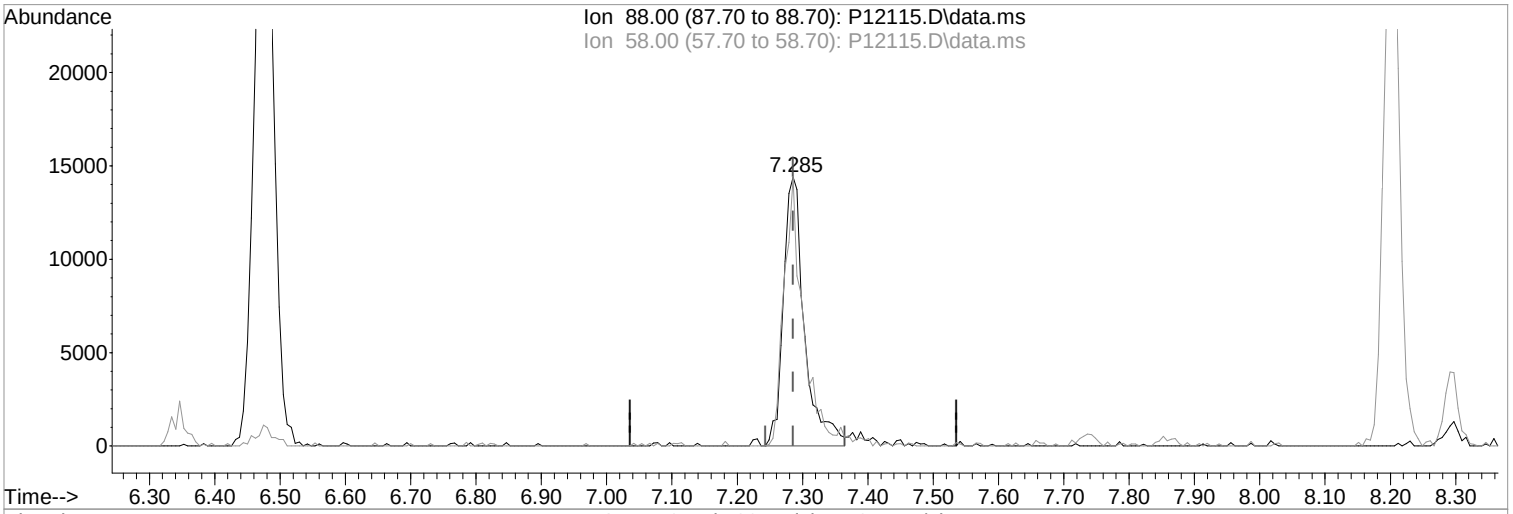
09/18/17

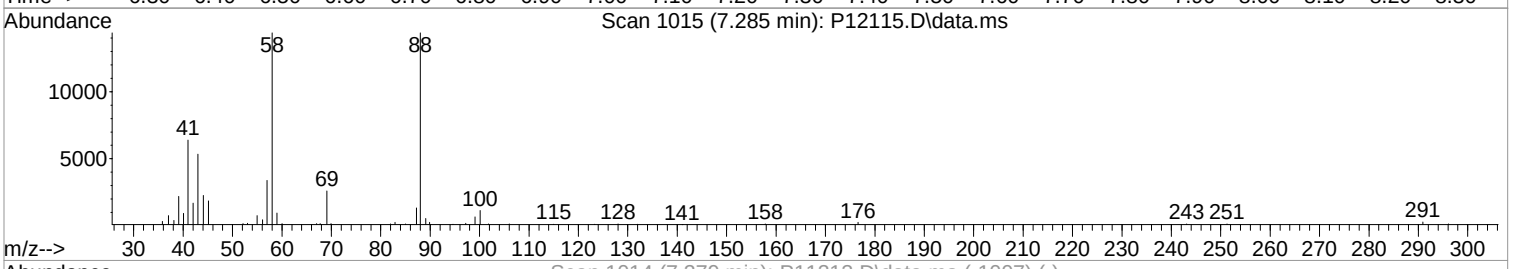
1st 09/18/17
2nd 09/20/17

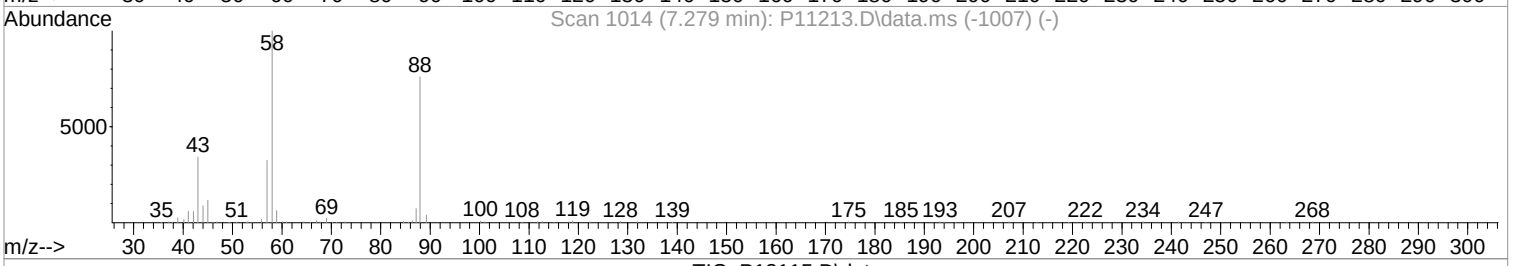
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 18 09:29:27 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12115.D\data.ms

(58) 1,4-Dioxane

7.285min (-0.000) 431.45 ppb

response 32434

Ion	Exp%	Act%
88.00	100	100
58.00	130.90	99.85#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 18 09:30:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	260311	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	424340	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	382390	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	187498	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	118176	49.94	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.88%				
48) surr1,1,2-dichloroetha...	5.773	65	180254	47.79	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 95.58%				
65) SURR3,Toluene-d8	8.297	98	543078	49.66	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.32%				
70) SURR2,BFB	10.864	95	208754	48.56	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	79807	22.30	ppb		93
3) Chloromethane	1.311	50	163495	23.95	ppb		91
4) Vinyl Chloride	1.384	62	121481	27.29	ppb		100
5) Bromomethane	1.610	94	45328	21.28	ppb		92
6) Chloroethane	1.689	64	53098	22.41	ppb		91
7) Freon 21	1.835	67	117442	19.31	ppb		97
8) Trichlorofluoromethane	1.884	101	97788	21.41	ppb		98
9) Diethyl Ether	2.122	59	92793	22.97	ppb		85
10) Freon 123a	2.122	67	74613	20.56	ppb		99
11) Freon 123	2.177	83	78710	19.52	ppb		99
12) Acrolein	2.219	56	47713	40.89	ppb		97
13) 1,1-Diclethene	2.311	96	56901	20.04	ppb	#	79
14) Freon 113	2.317	101	56369	22.35	ppb		95
15) Acetone	2.353	43	67598	21.31	ppb		91
16) 2-Propanol	2.481	45	243710	370.15	ppb		92
17) Iodomethane	2.439	142	48710	19.06	ppb		93
18) Carbon Disulfide	2.500	76	150626	20.13	ppb		98
19) Acetonitrile	2.597	40	63231m	104.60	ppb		
20) Allyl Chloride	2.634	76	33707	24.18	ppb	#	90
21) Methyl Acetate	2.664	43	122943	14.59	ppb		98
22) Methylene Chloride	2.756	84	67023	21.78	ppb		95
23) TBA	2.884	59	351235	383.64	ppb		88
24) Acrylonitrile	3.006	53	322766	111.65	ppb		98
25) Methyl-t-Butyl Ether	3.061	73	220345	19.95	ppb		87
26) trans-1,2-Dichloroethene	3.048	96	63277	21.63	ppb	#	87
28) 1,1-Diclethane	3.542	63	146462	22.33	ppb		95
29) Vinyl Acetate	3.627	86	16439	24.36	ppb	#	83
30) DIPE	3.670	45	350233	20.52	ppb		97
31) 2-Chloro-1,3-Butadiene	3.664	53	157366	22.81	ppb		81
32) ETBE	4.194	59	269622	19.50	ppb		90
33) 2,2-Dichloropropane	4.377	77	85127	18.72	ppb		94
34) cis-1,2-Dichloroethene	4.377	96	73637	21.48	ppb	#	73
35) 2-Butanone	4.414	43	90874	22.33	ppb		93
36) Propionitrile	4.499	54	131790	107.97	ppb		97
37) Bromochloromethane	4.768	130	41064	19.93	ppb		89
38) Methacrylonitrile	4.774	67	42042	21.05	ppb		97
39) Tetrahydrofuran	4.859	42	55190	21.90	ppb		95
40) Chloroform	4.950	83	111968	21.30	ppb		92
41) 1,1,1-Trichloroethane	5.243	97	95301	21.48	ppb		93

1st KR 09/18/17
2nd BA 09/20/17

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 18 09:30:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.097	73	206212	20.02	ppb		93
44) Cyclohexane	5.334	41	88259	19.69	ppb		82
46) Carbontetrachloride	5.536	117	74655	21.06	ppb		93
47) 1,1-Dichloropropene	5.536	75	91607	21.96	ppb		85
49) Benzene	5.853	78	276680	21.90	ppb		88
50) 1,2-Dichloroethane	5.889	62	115631	21.18	ppb		94
51) Iso-Butyl Alcohol	5.865	43	202725	400.53	ppb		98
52) n-Heptane	6.346	43	140984	21.43	ppb		89
54) Trichloroethene	6.810	130	71711	22.21	ppb		89
55) Methylcyclohexane	7.041	55	117049	19.76	ppb		84
56) 1,2-Diclpropane	7.084	63	84556	21.10	ppb		99
57) Dibromomethane	7.224	93	41799	21.25	ppb	#	80
58) 1,4-Dioxane	7.285	88	33783m	449.40	ppb		
59) Methyl Methacrylate	7.310	69	65585	21.30	ppb		96
60) Bromodichloromethane	7.450	83	78161	22.13	ppb		99
61) 2-Nitropropane	7.736	41	51332	33.22	ppb		99
62) 2-Chloroethylvinyl Ether	7.858	63	52850	22.78	ppb		82
63) cis-1,3-Dichloropropene	7.999	75	102158	20.56	ppb		92
64) 4-Methyl-2-pentanone	8.200	43	155353	21.67	ppb		85
66) Toluene	8.370	91	300220	22.13	ppb		98
67) trans-1,3-Dichloropropene	8.639	75	96767	21.36	ppb		96
68) Ethyl Methacrylate	8.779	69	116631	22.05	ppb		87
69) 1,1,2-Trichloroethane	8.822	97	66793	22.13	ppb		94
72) Tetrachloroethene	8.968	164	48564	20.64	ppb		96
73) 2-Hexanone	9.114	43	116415	21.16	ppb		89
74) 1,3-Dichloropropane	8.992	76	119077	20.45	ppb		92
75) Dibromochloromethane	9.224	129	54634	19.83	ppb		95
76) N-Butyl Acetate	9.273	43	220060	21.12	ppb		87
77) 1,2-Dibromoethane	9.322	107	64093	21.40	ppb		96
78) Chlorobenzene	9.815	112	184950	21.78	ppb		97
79) 3-CBTF	9.834	180	73730	18.22	ppb		97
80) 4-CBTF	9.888	180	67959	18.88	ppb		99
81) 1,1,1,2-Tetrachloroethane	9.901	131	60037	21.33	ppb		98
82) Ethylbenzene	9.937	106	106522	23.04	ppb	#	84
83) (m+p)Xylene	10.047	106	263170	46.32	ppb		92
84) o-Xylene	10.407	106	127898	22.69	ppb		96
85) Styrene	10.419	104	201777	22.23	ppb		97
87) Bromoform	10.571	173	33366	21.24	ppb		95
88) 2-CBTF	10.650	180	75045	19.86	ppb		98
89) Isopropylbenzene	10.742	105	316958	23.16	ppb		97
90) Cyclohexanone	10.803	55	519702	414.67	ppb		84
91) trans-1,4-Dichloro-2-B...	11.047	53	36844	22.34	ppb		99
92) 1,1,2,2-Tetrachloroethane	10.998	83	97126	23.57	ppb		99
93) Bromobenzene	10.986	156	74365	22.04	ppb		92
94) 1,2,3-Trichloropropane	11.028	110	30283	19.82	ppb		90
95) n-Propylbenzene	11.096	91	372119	23.10	ppb		97
96) 2-Chlorotoluene	11.163	91	219590	21.54	ppb		95
97) 3-Chlorotoluene	11.211	91	198730	19.23	ppb		95
98) 4-Chlorotoluene	11.254	91	259456	22.36	ppb		98
99) 1,3,5-Trimethylbenzene	11.248	105	264596	23.36	ppb		93
100) tert-Butylbenzene	11.522	119	228188	22.15	ppb		99
101) 1,2,4-Trimethylbenzene	11.559	105	272118	22.89	ppb		94
102) 3,4-DCBTF	11.620	214	52685	17.97	ppb		93
103) sec-Butylbenzene	11.705	105	334943	22.28	ppb		96
104) p-Isopropyltoluene	11.827	119	276457	22.77	ppb		96
105) 1,3-Dclbenz	11.784	146	139241	21.33	ppb		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 18 09:30:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	11.858	146	140989	21.44	ppb		95
107) 2,4-DCBTF	11.912	214	49174	19.13	ppb	#	93
108) 2,5-DCBTF	11.955	214	56951	19.59	ppb		96
109) n-Butylbenzene	12.162	91	255344	22.56	ppb		98
110) 1,2-Dclbenz	12.162	146	141798	22.38	ppb		96
111) 1,2-Dibromo-3-chloropr...	12.784	157	20310	19.24	ppb		86
112) Trielution Dichlorotol...	12.906	125	351875	56.68	ppb		95
113) 1,3,5 Trichlorobenzene	12.955	180	91868	19.23	ppb		99
114) Coelution Dichlorotoluene	13.229	125	270029	39.22	ppb		95
115) 1,2,4-Tcbenzene	13.443	180	106158	21.07	ppb		97
116) Hexachlorobt	13.583	225	40975	19.55	ppb		89
117) Naphthalen	13.632	128	350797	21.86	ppb		99
118) 1,2,3-Tclbenzene	13.821	180	103232	20.18	ppb		99
119) 2,4,5-Trichlorotolene	14.406	159	74995	18.37	ppb	#	93
120) 2,3,6-Trichlorotoluene	14.491	159	82480	21.66	ppb		96

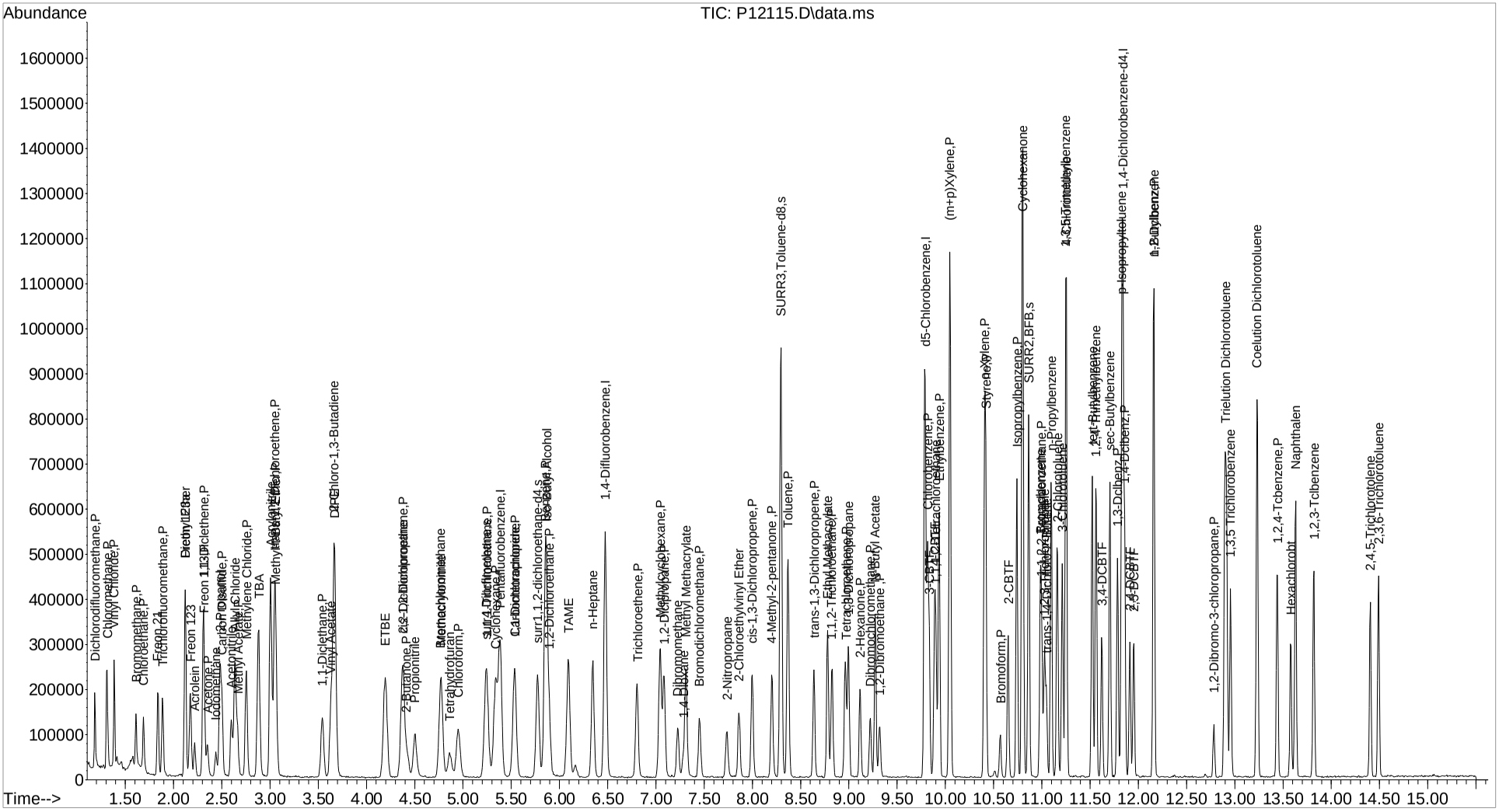
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12115.D
Acq On : 15 Sep 2017 9:21 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

1st 09/18/17
2nd 09/20/17

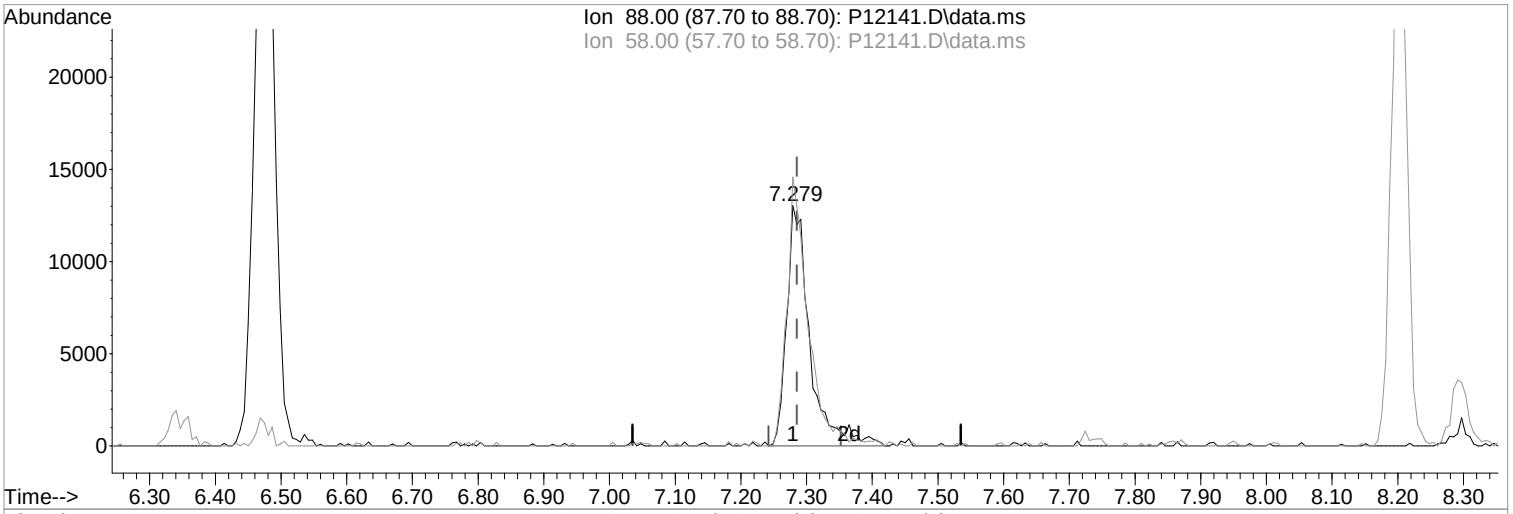
Quant Time: Sep 18 09:30:56 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

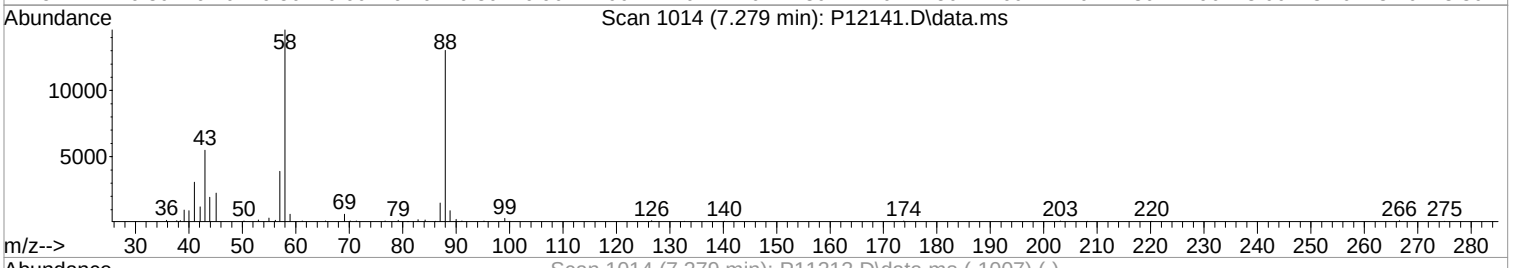


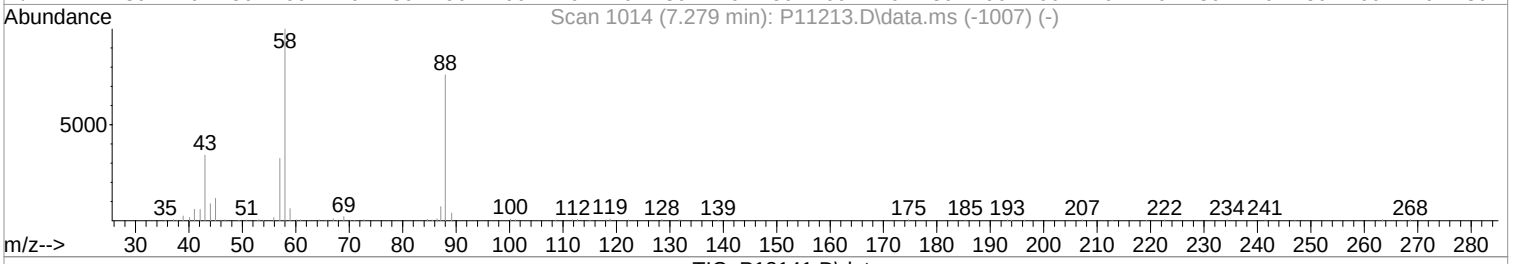
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12141.D
Acq On : 18 Sep 2017 11:06 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:22:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12141.D\data.ms

(58) 1,4-Dioxane

7.279min (-0.006) 373.21 ppb m

response 31988

Ion	Exp%	Act%
88.00	100	100
58.00	130.90	111.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

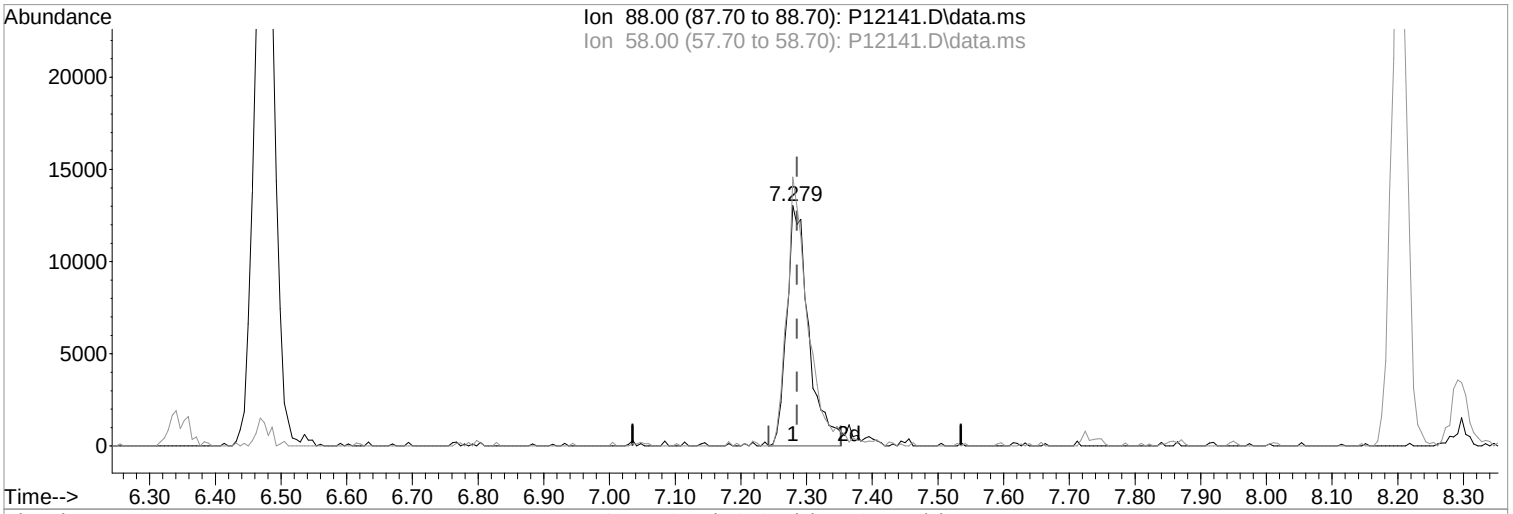
Poor integration.

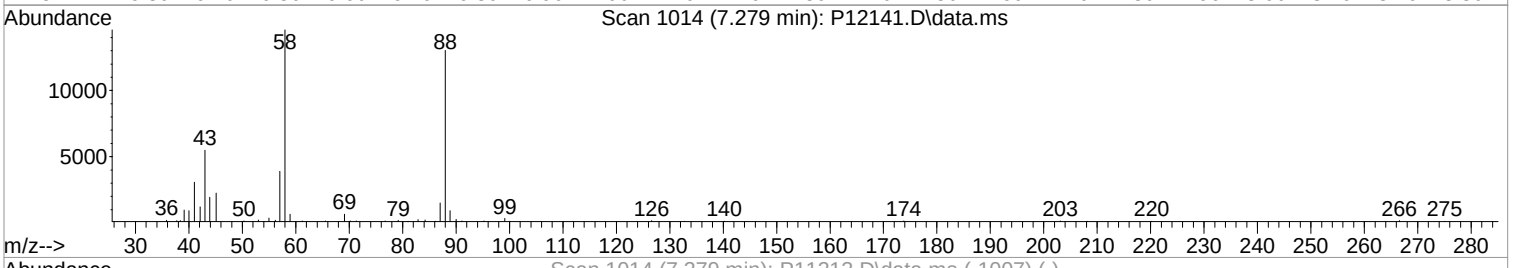
09/18/17

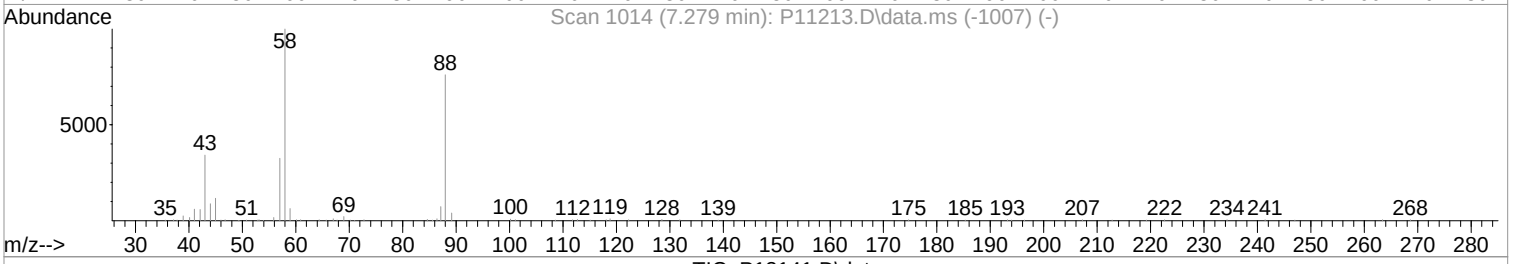
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12141.D
Acq On : 18 Sep 2017 11:06 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:22:21 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12141.D\data.ms

(58) 1,4-Dioxane

7.279min (-0.006) 352.54 ppb

response 30217

Ion	Exp%	Act%
88.00	100	100
58.00	130.90	111.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12141.D
Acq On : 18 Sep 2017 11:06 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:23:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	296317	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.475	114	483820	50.00	ppb		0.00
71) d5-Chlorobenzene	9.785	117	431115	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	218987	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	137291	50.88	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.76%				
48) surr1,1,2-dichloroetha...	5.773	65	195758	45.52	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.04%				
65) SURR3,Toluene-d8	8.297	98	599138	48.05	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.10%				
70) SURR2,BFB	10.864	95	234631	47.87	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	83708	20.54	ppb		91
3) Chloromethane	1.305	50	173438	22.31	ppb		89
4) Vinyl Chloride	1.384	62	118009	23.29	ppb		91
5) Bromomethane	1.610	94	41758	16.74	ppb		89
6) Chloroethane	1.689	64	53571	19.82	ppb		99
7) Freon 21	1.835	67	127088	18.35	ppb		99
8) Trichlorofluoromethane	1.884	101	98004	18.85	ppb		92
9) Diethyl Ether	2.116	59	92329	20.07	ppb		84
10) Freon 123a	2.122	67	88334	21.39	ppb		98
11) Freon 123	2.170	83	92677	20.19	ppb		96
12) Acrolein	2.219	56	51692	38.92	ppb		95
13) 1,1-Diclethene	2.311	96	59502	18.41	ppb	#	74
14) Freon 113	2.317	101	55565	19.35	ppb		92
15) Acetone	2.347	43	64623	17.90	ppb		99
16) 2-Propanol	2.481	45	262578	350.35	ppb		98
17) Iodomethane	2.433	142	46911	16.68	ppb		97
18) Carbon Disulfide	2.500	76	144191	16.93	ppb		97
19) Acetonitrile	2.597	40	64802	94.18	ppb		96
20) Allyl Chloride	2.634	76	36354	22.91	ppb		100
21) Methyl Acetate	2.658	43	128270	13.37	ppb		99
22) Methylene Chloride	2.756	84	68531	19.57	ppb		88
23) TBA	2.878	59	340699	326.92	ppb		84
24) Acrylonitrile	3.006	53	338033	102.72	ppb		99
25) Methyl-t-Butyl Ether	3.054	73	215658	17.15	ppb		91
26) trans-1,2-Dichloroethene	3.048	96	67162	20.17	ppb	#	78
28) 1,1-Diclethane	3.536	63	146012	19.56	ppb		97
29) Vinyl Acetate	3.634	86	18879	24.58	ppb	#	65
30) DIPE	3.670	45	392151	20.18	ppb		98
31) 2-Chloro-1,3-Butadiene	3.664	53	143583	18.29	ppb		84
32) ETBE	4.194	59	295968	18.80	ppb		94
33) 2,2-Dichloropropane	4.377	77	103973	20.09	ppb		100
34) cis-1,2-Dichloroethene	4.377	96	75862	19.44	ppb	#	85
35) 2-Butanone	4.414	43	87009	18.78	ppb		90
36) Propionitrile	4.499	54	136398	98.16	ppb		93
37) Bromochloromethane	4.774	130	42233	18.01	ppb	#	84
38) Methacrylonitrile	4.768	67	41151	18.10	ppb	#	73
39) Tetrahydrofuran	4.865	42	56729	19.78	ppb		94
40) Chloroform	4.950	83	114352	19.11	ppb		88
41) 1,1,1-Trichloroethane	5.243	97	95897	18.99	ppb		87

1st KR 09/18/17
2nd BA 09/19/17

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12141.D
Acq On : 18 Sep 2017 11:06 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:23:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.097	73	210942	17.99	ppb		92
44)	Cyclohexane	5.341	41	103157	20.19	ppb		96
46)	Carbontetrachloride	5.530	117	76139	18.84	ppb		93
47)	1,1-Dichloropropene	5.536	75	89815	18.89	ppb		93
49)	Benzene	5.859	78	272858	18.94	ppb		90
50)	1,2-Dichloroethane	5.889	62	113455	18.23	ppb		89
51)	Iso-Butyl Alcohol	5.865	43	204275	353.97	ppb		97
52)	n-Heptane	6.346	43	178128	23.74	ppb		88
54)	Trichloroethene	6.804	130	73849	20.06	ppb		96
55)	Methylcyclohexane	7.041	55	147346	21.82	ppb	#	77
56)	1,2-Diclpropane	7.084	63	91160	19.95	ppb		95
57)	Dibromomethane	7.224	93	39790	17.74	ppb		96
58)	1,4-Dioxane	7.279	88	31988m	373.21	ppb		
59)	Methyl Methacrylate	7.316	69	67846	19.33	ppb	#	85
60)	Bromodichloromethane	7.456	83	77415	19.22	ppb		97
61)	2-Nitropropane	7.730	41	57796	32.80	ppb		88
62)	2-Chloroethylvinyl Ether	7.858	63	48060	18.17	ppb		80
63)	cis-1,3-Dichloropropene	7.999	75	111669	19.71	ppb		95
64)	4-Methyl-2-pentanone	8.200	43	150379	18.40	ppb		86
66)	Toluene	8.370	91	305349	19.74	ppb		99
67)	trans-1,3-Dichloropropene	8.639	75	98420	19.05	ppb		96
68)	Ethyl Methacrylate	8.779	69	113753	18.86	ppb		88
69)	1,1,2-Trichloroethane	8.828	97	67010	19.47	ppb		97
72)	Tetrachloroethene	8.962	164	53532	20.18	ppb		87
73)	2-Hexanone	9.114	43	112538	18.15	ppb		86
74)	1,3-Dichloropropane	8.992	76	117673	17.93	ppb		89
75)	Dibromochloromethane	9.224	129	61218	19.70	ppb		96
76)	N-Butyl Acetate	9.273	43	232660	19.81	ppb		92
77)	1,2-Dibromoethane	9.315	107	66743	19.77	ppb		92
78)	Chlorobenzene	9.815	112	197792	20.66	ppb		99
79)	3-CBTF	9.834	180	91010	19.95	ppb		89
80)	4-CBTF	9.889	180	87755	21.62	ppb		93
81)	1,1,1,2-Tetrachloroethane	9.901	131	65559	20.66	ppb		91
82)	Ethylbenzene	9.937	106	108504	20.82	ppb	#	89
83)	(m+p)Xylene	10.047	106	275595	43.02	ppb		89
84)	o-Xylene	10.407	106	133081	20.95	ppb		98
85)	Styrene	10.419	104	218148	21.32	ppb		99
87)	Bromoform	10.571	173	39514	21.54	ppb		96
88)	2-CBTF	10.651	180	89988	20.39	ppb		100
89)	Isopropylbenzene	10.742	105	339306	21.22	ppb		99
90)	Cyclohexanone	10.803	55	569763	389.25	ppb		86
91)	trans-1,4-Dichloro-2-B...	11.047	53	37646	19.54	ppb		94
92)	1,1,2,2-Tetrachloroethane	10.998	83	96144	19.98	ppb		92
93)	Bromobenzene	10.986	156	78583	19.94	ppb		93
94)	1,2,3-Trichloropropane	11.029	110	31894	17.88	ppb		92
95)	n-Propylbenzene	11.096	91	394390	20.96	ppb		98
96)	2-Chlorotoluene	11.157	91	231718	19.46	ppb		98
97)	3-Chlorotoluene	11.211	91	226548	18.77	ppb		96
98)	4-Chlorotoluene	11.254	91	274875	20.28	ppb		95
99)	1,3,5-Trimethylbenzene	11.248	105	278805	21.07	ppb		95
100)	tert-Butylbenzene	11.522	119	248362	20.64	ppb		98
101)	1,2,4-Trimethylbenzene	11.559	105	288672	20.79	ppb		95
102)	3,4-DCBTF	11.626	214	70553	20.61	ppb		94
103)	sec-Butylbenzene	11.705	105	373780	21.29	ppb		99
104)	p-Isopropyltoluene	11.827	119	312831	22.06	ppb		99
105)	1,3-Dclbenz	11.784	146	155510	20.40	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12141.D
Acq On : 18 Sep 2017 11:06 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:23:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	11.858	146	158075	20.58	ppb		92
107) 2,4-DCBTF	11.912	214	61862	20.60	ppb		93
108) 2,5-DCBTF	11.955	214	70819	20.86	ppb		95
109) n-Butylbenzene	12.162	91	288001	21.79	ppb		96
110) 1,2-Dclbenz	12.162	146	152409	20.59	ppb		100
111) 1,2-Dibromo-3-chloropr...	12.784	157	22004	17.84	ppb		93
112) Trielution Dichlorotol...	12.900	125	417275	57.55	ppb		95
113) 1,3,5 Trichlorobenzene	12.961	180	108946	19.52	ppb		96
114) Coelution Dichlorotoluene	13.229	125	306917	38.17	ppb		97
115) 1,2,4-Tcbenzene	13.443	180	117626	19.99	ppb		91
116) Hexachlorobt	13.583	225	48690	19.89	ppb		96
117) Naphthalen	13.632	128	366554	19.56	ppb		99
118) 1,2,3-Tclbenzene	13.821	180	112310	18.79	ppb		96
119) 2,4,5-Trichlorotolene	14.406	159	88397	18.54	ppb	#	89
120) 2,3,6-Trichlorotoluene	14.406	159	88397	19.88	ppb		94

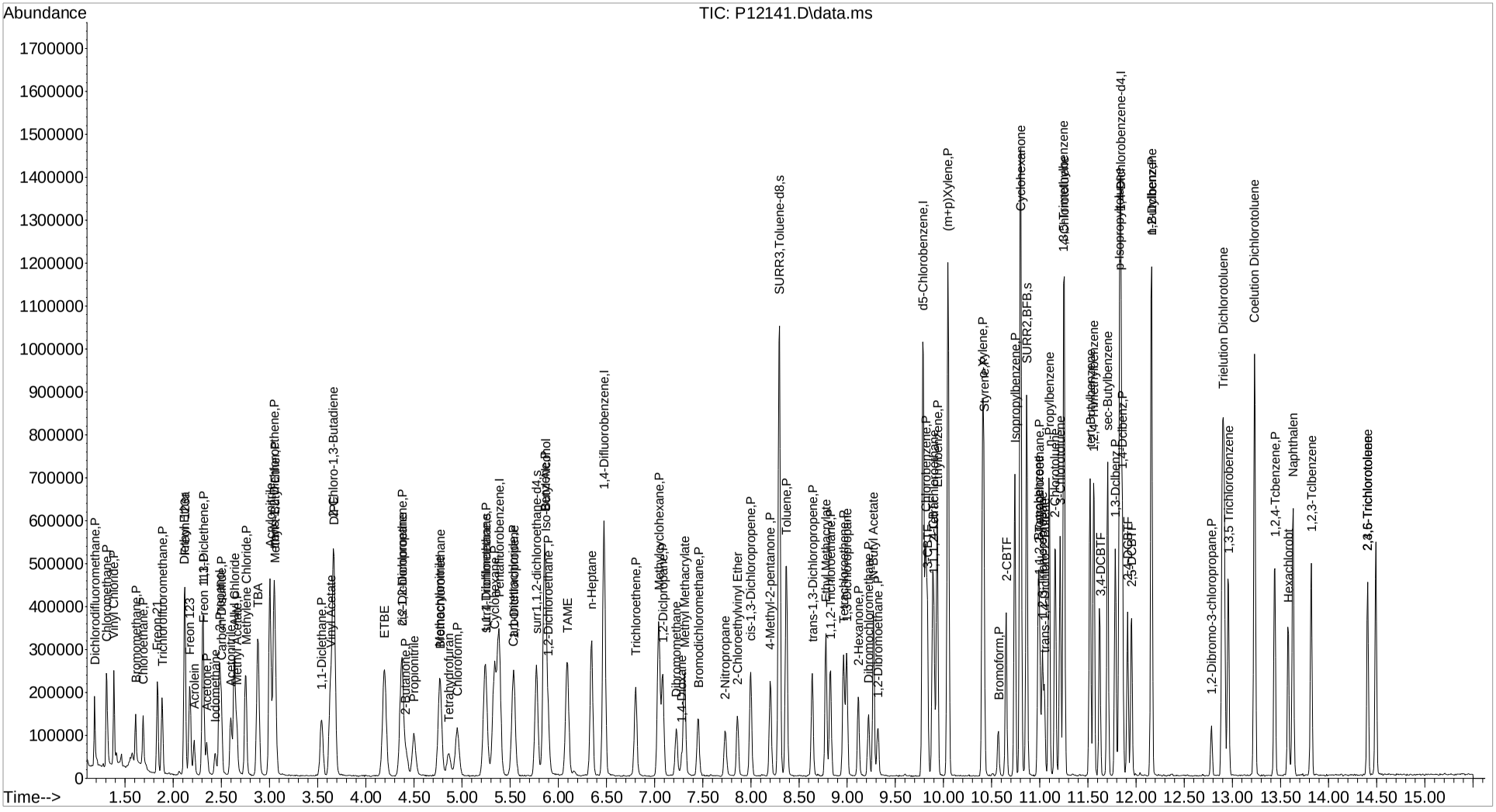
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12141.D
Acq On : 18 Sep 2017 11:06 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

1st 09/18/17 2nd 09/19/17

Quant Time: Sep 18 11:23:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

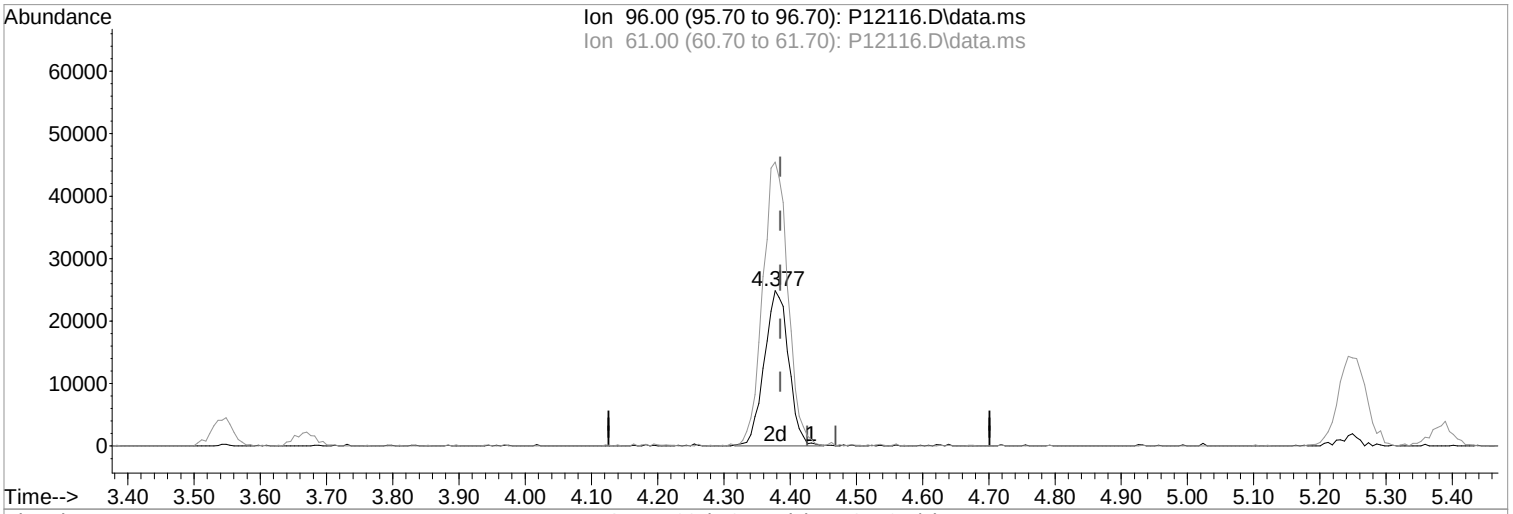


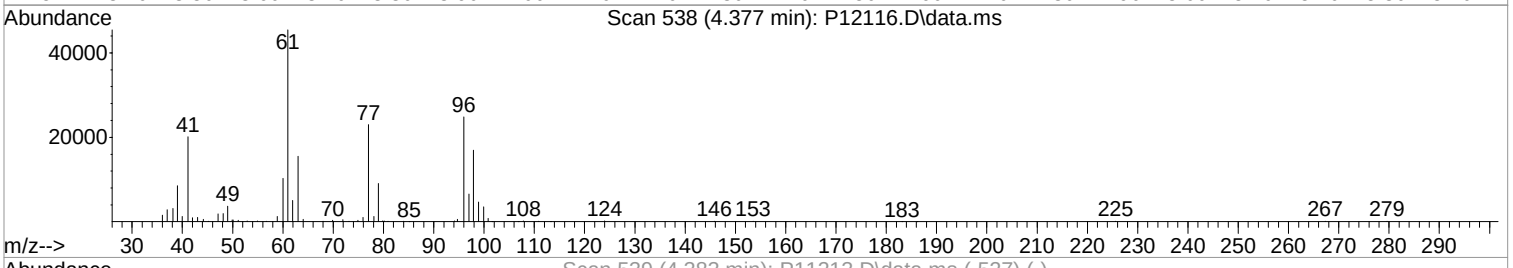
1st 09/18/17
2nd 09/20/17

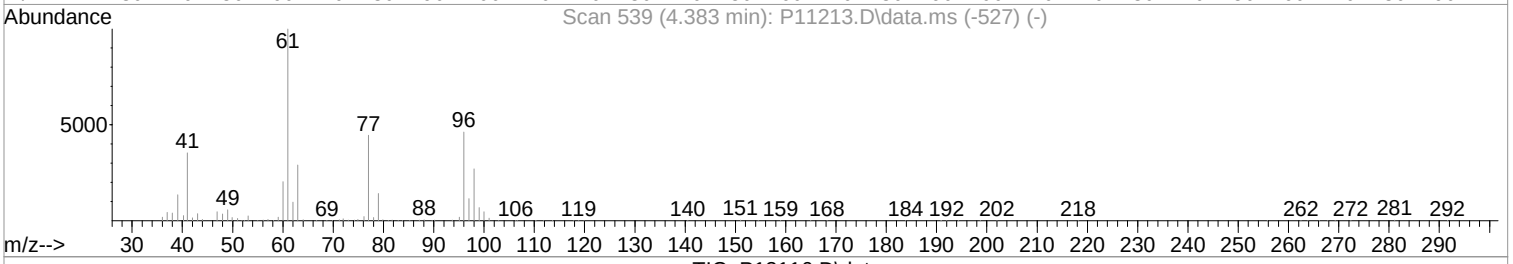
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:31:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12116.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.377min (-0.008) 18.52 ppb m

response 63609

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	183.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

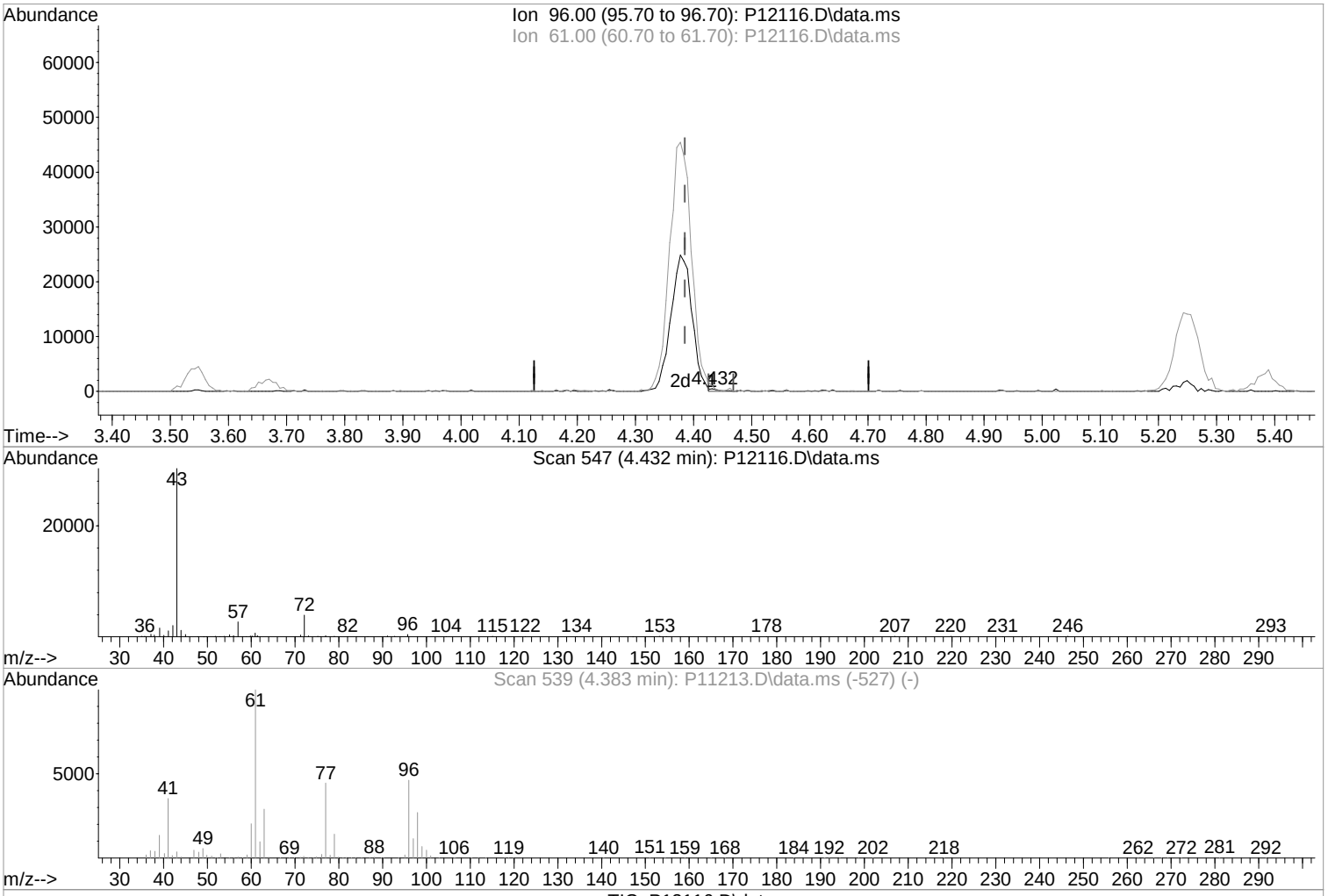
Peak not found.

09/18/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:31:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12116.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.432min (+0.047) 0.14 ppb

response 490

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	208.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

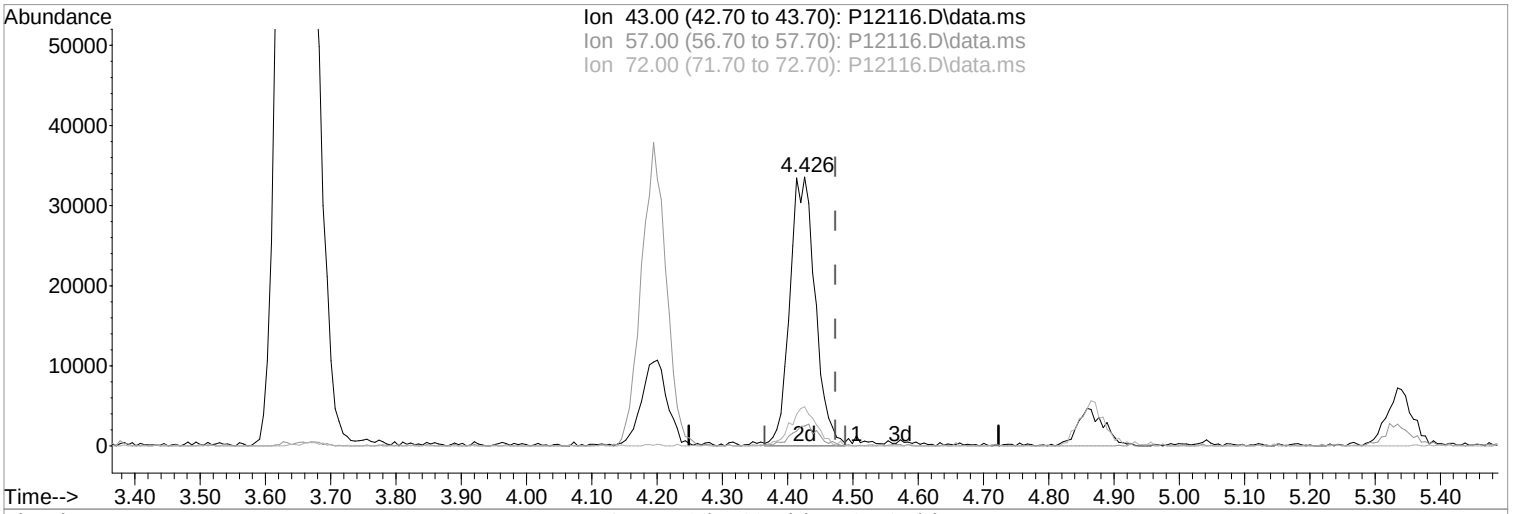
Before

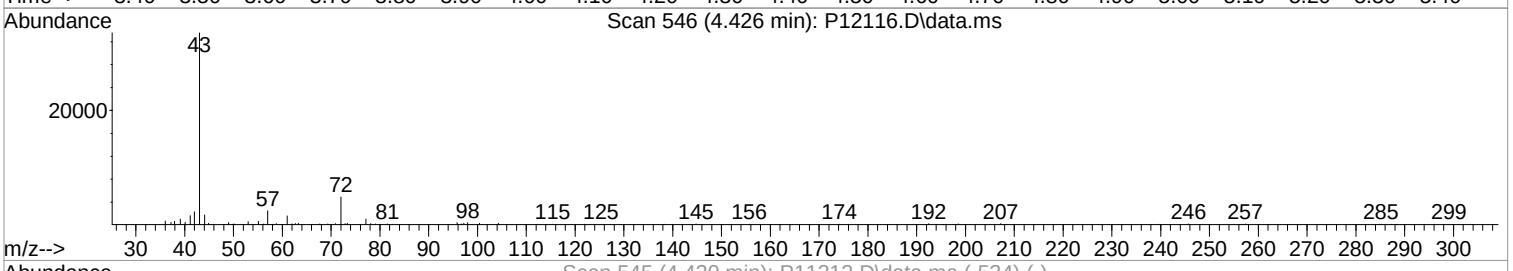
09/18/17

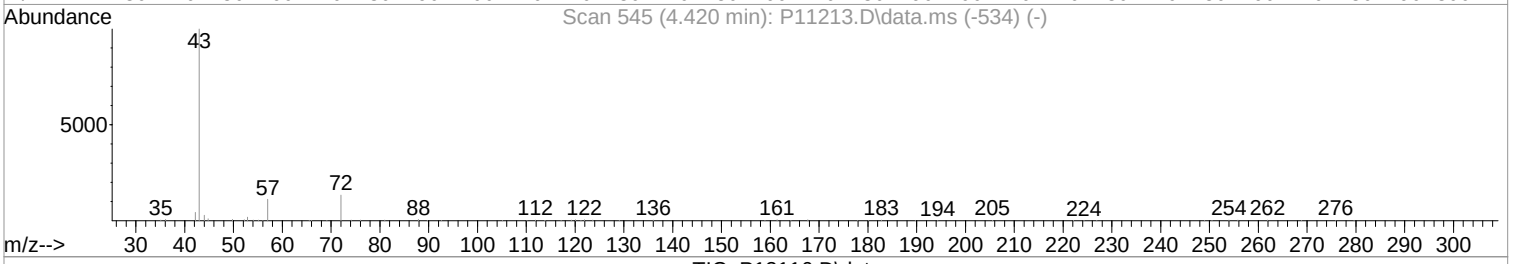
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:31:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12116.D\data.ms

(35) 2-Butanone (P)

4.426min (-0.047) 22.26 ppb m

response 90799

Ion	Exp%	Act%
43.00	100	100
57.00	11.50	7.40
72.00	13.70	14.54
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

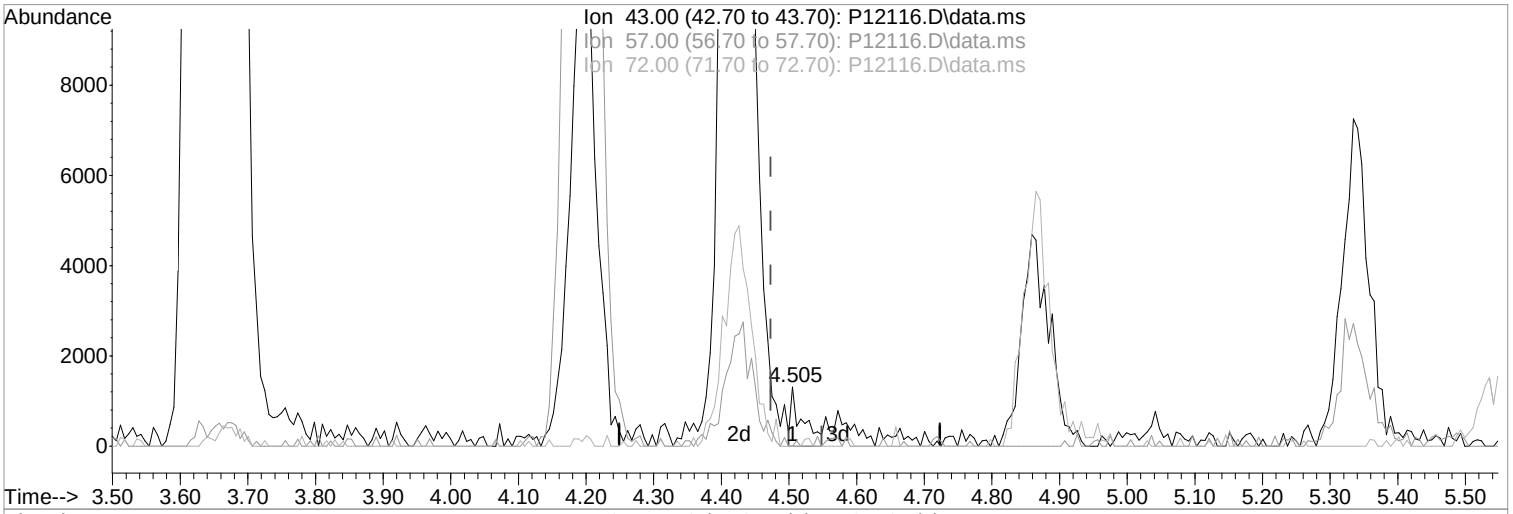
09/18/17

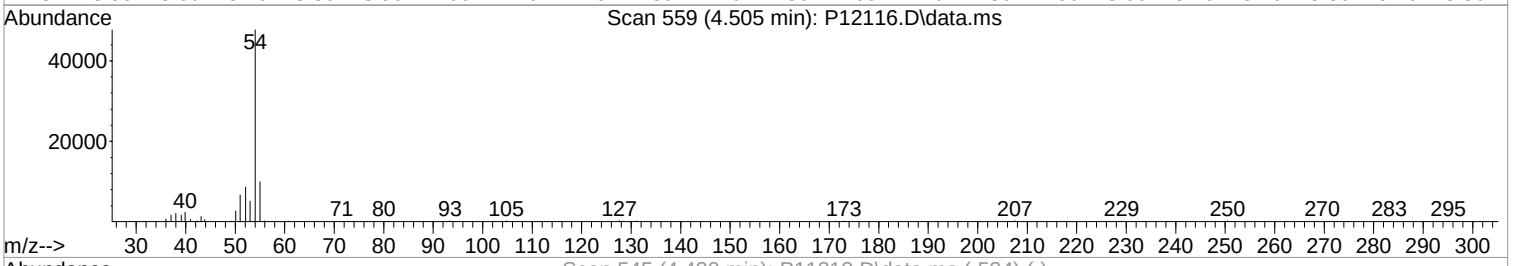
1st 09/18/17
2nd 09/20/17

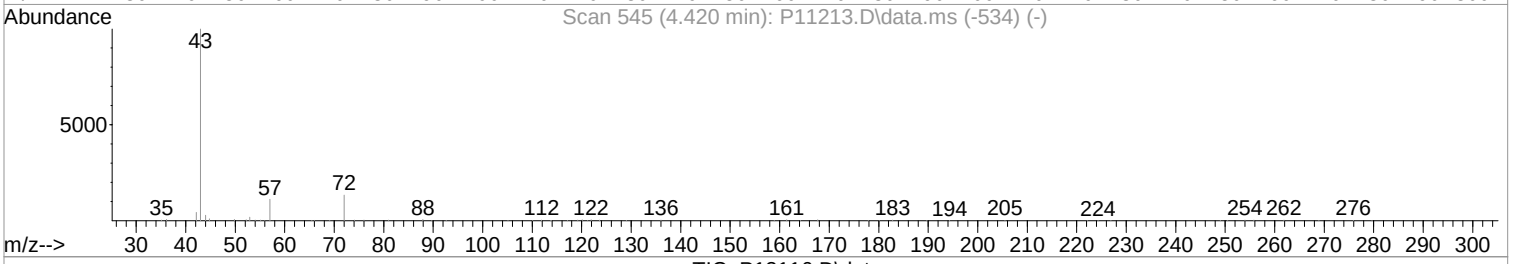
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:31:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12116.D\data.ms

(35) 2-Butanone (P)

4.505min (+0.032) 0.38 ppb

response 1558

Ion	Exp%	Act%
43.00	100	100
57.00	11.50	0.00
72.00	13.70	0.00
0.00	0.00	0.00

Manual Integration:

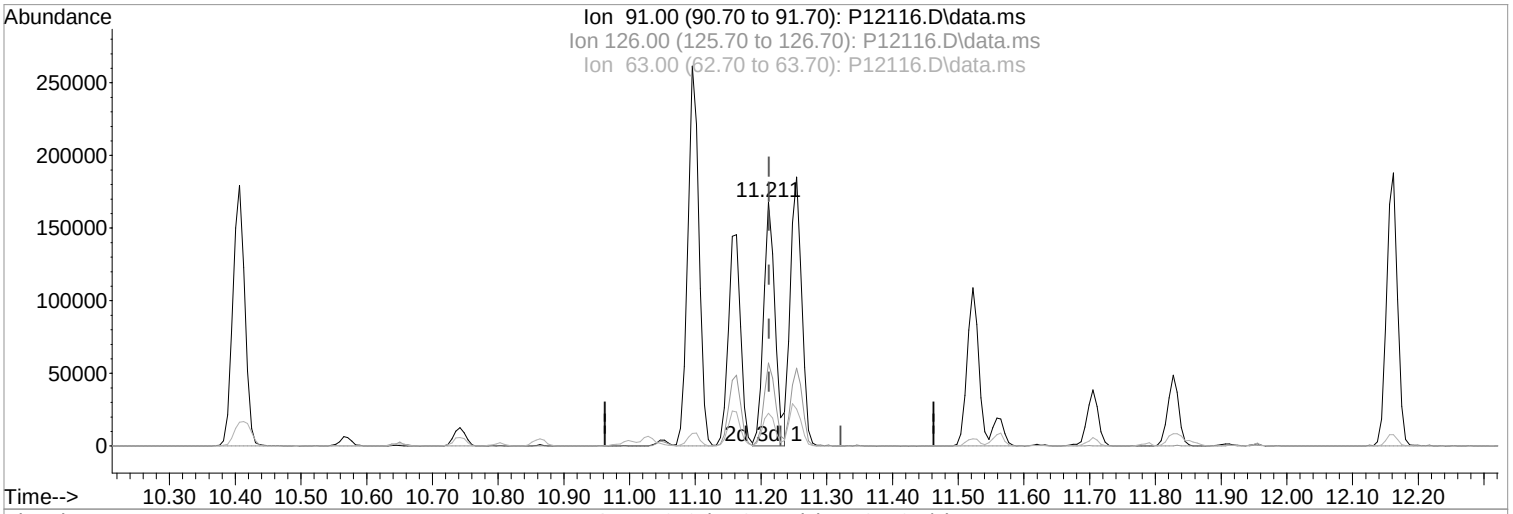
Before

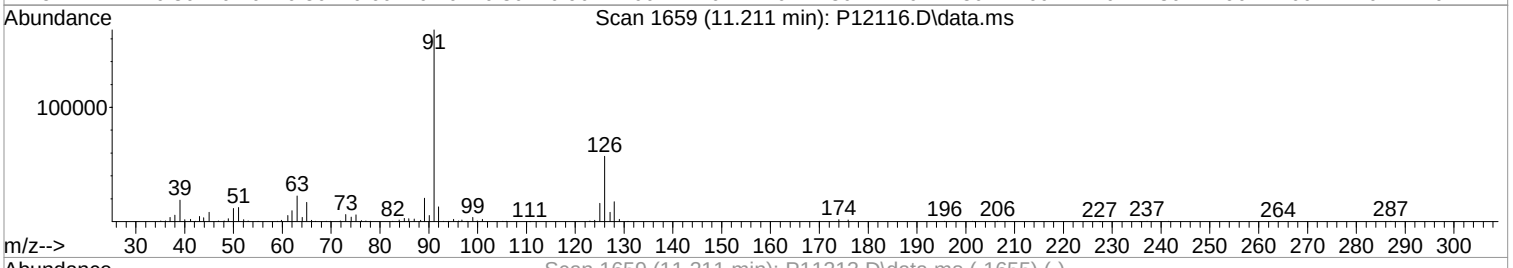
09/18/17

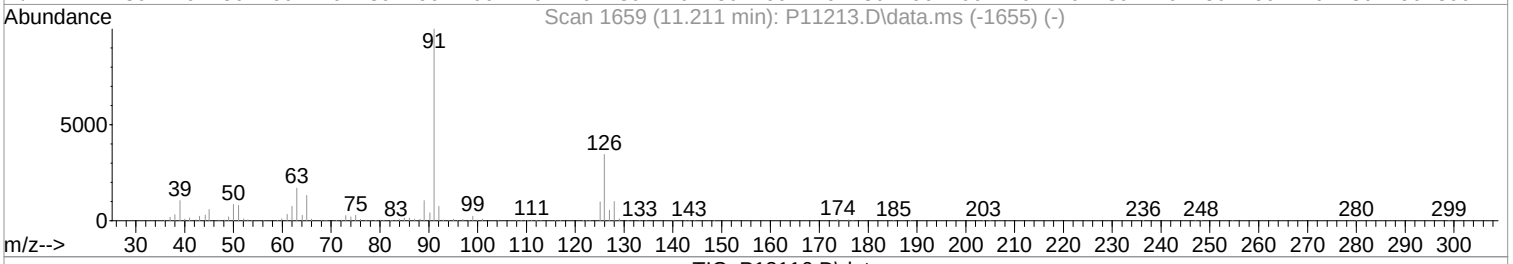
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:31:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12116.D\data.ms

(97) 3-Chlorotoluene

11.211min (-0.001) 19.32 ppb m

response 208727

Ion	Exp%	Act%
91.00	100	100
126.00	34.50	34.00
63.00	16.90	13.40#
0.00	0.00	0.00

Manual Integration:

After

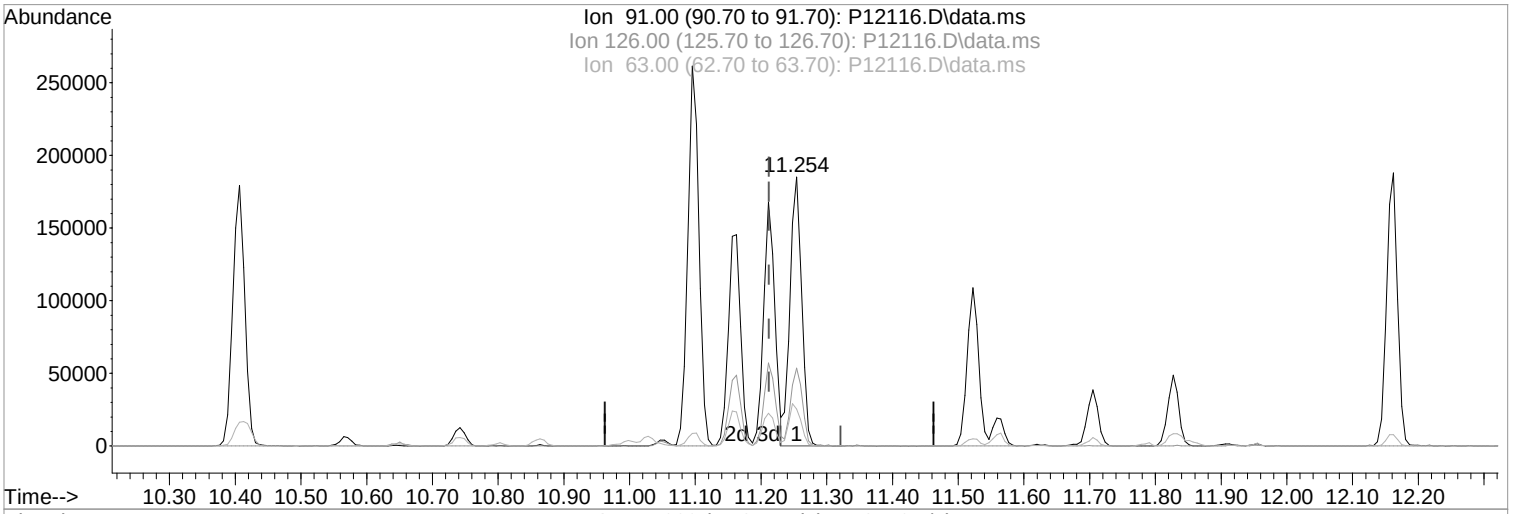
Wrong peak selected.

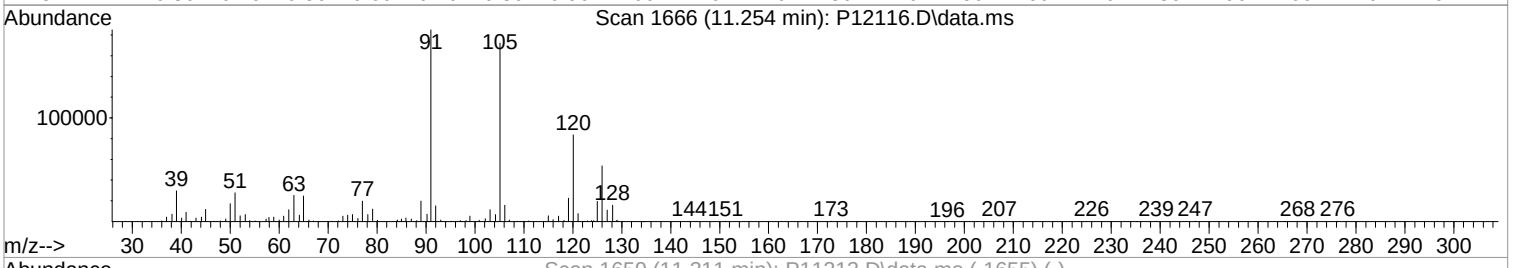
09/18/17

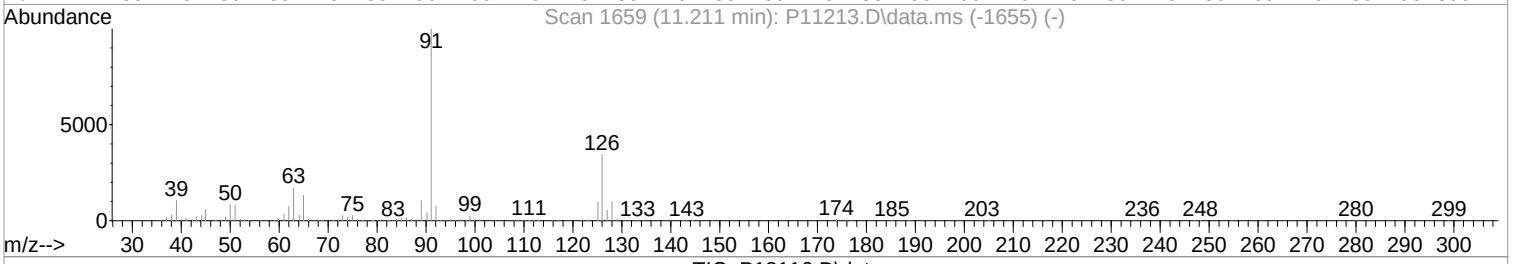
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:31:54 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P12116.D\data.ms

(97) 3-Chlorotoluene

11.254min (+0.042) 21.31 ppb

response 230198

Ion	Exp%	Act%
91.00	100	100
126.00	34.50	28.98
63.00	16.90	13.69
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:33:44 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	260875	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	431719	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	393369	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	195980	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	121890	50.63	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.26%				
48) surr1,1,2-dichloroetha...	5.773	65	183365	47.78	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 95.56%				
65) SURR3,Toluene-d8	8.297	98	551715	49.59	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.18%				
70) SURR2,BFB	10.864	95	212358	48.55	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	66184	18.45	ppb		93
3) Chloromethane	1.305	50	141668	20.70	ppb		96
4) Vinyl Chloride	1.384	62	97830	21.93	ppb		93
5) Bromomethane	1.610	94	38226	17.49	ppb		91
6) Chloroethane	1.689	64	44679	18.75	ppb		96
7) Freon 21	1.835	67	123036	20.18	ppb		100
8) Trichlorofluoromethane	1.884	101	80987	17.69	ppb		98
9) Diethyl Ether	2.122	59	88763	21.92	ppb		88
10) Freon 123a	2.122	67	83213	22.89	ppb		97
11) Freon 123	2.177	83	86442	21.39	ppb		95
12) Acrolein	2.219	56	47501	40.62	ppb		94
13) 1,1-Diclethene	2.311	96	49833	17.51	ppb	#	66
14) Freon 113	2.317	101	41432	16.39	ppb		89
15) Acetone	2.353	43	71779	22.58	ppb		95
16) 2-Propanol	2.481	45	272385	412.81	ppb		96
17) Iodomethane	2.439	142	48459	18.95	ppb		92
18) Carbon Disulfide	2.500	76	142011	18.94	ppb		97
19) Acetonitrile	2.597	40	61048	100.77	ppb		96
20) Allyl Chloride	2.640	76	29612	21.19	ppb	#	94
21) Methyl Acetate	2.664	43	125269	14.84	ppb		97
22) Methylene Chloride	2.756	84	63251	20.51	ppb		90
23) TBA	2.884	59	378657	412.70	ppb		88
24) Acrylonitrile	3.006	53	319035	110.12	ppb		94
25) Methyl-t-Butyl Ether	3.054	73	219212	19.80	ppb		86
26) trans-1,2-Dichloroethene	3.048	96	52834	18.02	ppb	#	76
28) 1,1-Diclethane	3.542	63	122571	18.65	ppb		96
29) Vinyl Acetate	3.634	86	17841	26.38	ppb	#	72
30) DIPE	3.670	45	356756	20.86	ppb		99
31) 2-Chloro-1,3-Butadiene	3.670	53	139926	20.24	ppb		82
32) ETBE	4.194	59	285976	20.64	ppb		92
33) 2,2-Dichloropropane	4.365	77	72758	15.97	ppb		93
34) cis-1,2-Dichloroethene	4.377	96	63609m	18.52	ppb		
35) 2-Butanone	4.426	43	90799m	22.26	ppb		
36) Propionitrile	4.499	54	140047	114.48	ppb		93
37) Bromochloromethane	4.767	130	40695	19.71	ppb	#	83
38) Methacrylonitrile	4.780	67	41741	20.85	ppb	#	77
39) Tetrahydrofuran	4.865	42	57175	22.64	ppb		87
40) Chloroform	4.950	83	102295	19.42	ppb		94
41) 1,1,1-Trichloroethane	5.255	97	80965	18.21	ppb		91

1st KR 09/18/17
2nd BA 09/20/17

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:33:44 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.096	73	205794	19.94	ppb		93
44) Cyclohexane	5.334	41	94369	20.70	ppb		96
46) Carbontetrachloride	5.530	117	58581	16.24	ppb		92
47) 1,1-Dichloropropene	5.536	75	72973	17.20	ppb		88
49) Benzene	5.859	78	240803	18.73	ppb		86
50) 1,2-Dichloroethane	5.889	62	107672	19.39	ppb		91
51) Iso-Butyl Alcohol	5.865	43	205677	399.41	ppb		100
52) n-Heptane	6.340	43	118955	17.77	ppb		89
54) Trichloroethene	6.804	130	61090	18.59	ppb		89
55) Methylcyclohexane	7.041	55	127383	21.14	ppb		84
56) 1,2-Diclpropane	7.084	63	79273	19.44	ppb		99
57) Dibromomethane	7.224	93	40215	20.09	ppb		91
58) 1,4-Dioxane	7.291	88	33346	436.00	ppb	#	69
59) Methyl Methacrylate	7.316	69	66875	21.35	ppb	#	85
60) Bromodichloromethane	7.456	83	69582	19.36	ppb		100
61) 2-Nitropropane	7.736	41	54758	34.83	ppb		90
62) 2-Chloroethylvinyl Ether	7.864	63	53304	22.58	ppb		89
63) cis-1,3-Dichloropropene	7.999	75	99156	19.61	ppb		91
64) 4-Methyl-2-pentanone	8.200	43	156668	21.48	ppb		86
66) Toluene	8.370	91	260197	18.85	ppb		97
67) trans-1,3-Dichloropropene	8.639	75	90627	19.66	ppb		99
68) Ethyl Methacrylate	8.779	69	113009	21.00	ppb		89
69) 1,1,2-Trichloroethane	8.828	97	61910	20.16	ppb		97
72) Tetrachloroethene	8.962	164	39543	16.34	ppb		91
73) 2-Hexanone	9.114	43	117965	20.85	ppb		89
74) 1,3-Dichloropropane	8.992	76	109795	18.33	ppb		97
75) Dibromochloromethane	9.224	129	53790	18.97	ppb		98
76) N-Butyl Acetate	9.273	43	233279	21.77	ppb		93
77) 1,2-Dibromoethane	9.321	107	65212	21.17	ppb		89
78) Chlorobenzene	9.815	112	168334	19.27	ppb		96
79) 3-CBTF	9.834	180	74853	17.98	ppb		89
80) 4-CBTF	9.888	180	68618	18.53	ppb		96
81) 1,1,1,2-Tetrachloroethane	9.901	131	55704	19.24	ppb		93
82) Ethylbenzene	9.937	106	90858	19.10	ppb	#	87
83) (m+p)Xylene	10.047	106	215735	36.91	ppb		96
84) o-Xylene	10.407	106	111285	19.20	ppb		98
85) Styrene	10.419	104	187838	20.12	ppb		97
87) Bromoform	10.571	173	32183	19.60	ppb		95
88) 2-CBTF	10.650	180	77435	19.60	ppb		93
89) Isopropylbenzene	10.742	105	268975	18.80	ppb		98
90) Cyclohexanone	10.803	55	540609	412.69	ppb		83
91) trans-1,4-Dichloro-2-B...	11.047	53	38483	22.32	ppb		99
92) 1,1,2,2-Tetrachloroethane	10.998	83	93355	21.68	ppb		95
93) Bromobenzene	10.986	156	67134	19.03	ppb		94
94) 1,2,3-Trichloropropane	11.028	110	30886	19.34	ppb		91
95) n-Propylbenzene	11.095	91	309192	18.36	ppb		96
96) 2-Chlorotoluene	11.163	91	187884	17.63	ppb		96
97) 3-Chlorotoluene	11.211	91	208727m	19.32	ppb		
98) 4-Chlorotoluene	11.254	91	229212	18.90	ppb		94
99) 1,3,5-Trimethylbenzene	11.248	105	226583	19.14	ppb		91
100) tert-Butylbenzene	11.522	119	185866	17.26	ppb		97
101) 1,2,4-Trimethylbenzene	11.559	105	231064	18.60	ppb		91
102) 3,4-DCBTF	11.626	214	56996	18.60	ppb	#	88
103) sec-Butylbenzene	11.705	105	277591	17.66	ppb		99
104) p-Isopropyltoluene	11.827	119	233878	18.43	ppb		98
105) 1,3-Dclbenz	11.784	146	128932	18.90	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 18 09:33:44 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

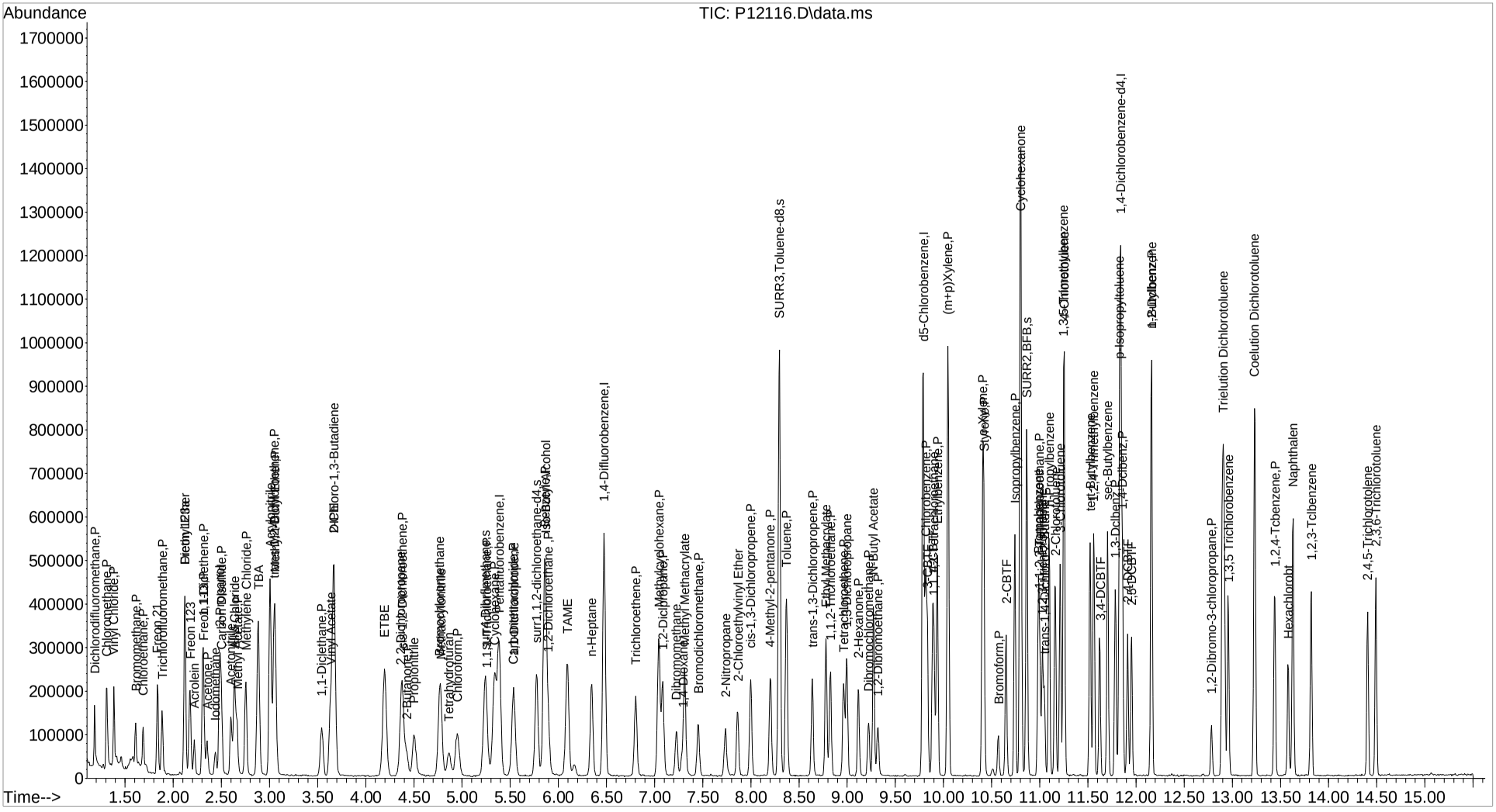
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	11.858	146	127099	18.49	ppb		91
107) 2,4-DCBTF	11.912	214	49885	18.56	ppb		94
108) 2,5-DCBTF	11.955	214	58264	19.18	ppb		92
109) n-Butylbenzene	12.162	91	215106	18.19	ppb		96
110) 1,2-Dclbenz	12.162	146	127414	19.24	ppb		96
111) 1,2-Dibromo-3-chloropr...	12.784	157	20272	18.37	ppb		91
112) Trielution Dichlorotol...	12.906	125	363764	56.06	ppb	#	89
113) 1,3,5 Trichlorobenzene	12.961	180	93652	18.75	ppb		96
114) Coelution Dichlorotoluene	13.229	125	278887	38.76	ppb	#	93
115) 1,2,4-Tcbenzene	13.443	180	97459	18.51	ppb		98
116) Hexachlorobt	13.583	225	35299	16.11	ppb		92
117) Naphthalen	13.632	128	341976	20.39	ppb		98
118) 1,2,3-Tclbenzene	13.821	180	98821	18.48	ppb		92
119) 2,4,5-Trichlorotolene	14.406	159	74749	17.52	ppb	#	85
120) 2,3,6-Trichlorotoluene	14.491	159	83536	20.99	ppb	#	94

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

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12116.D
Acq On : 15 Sep 2017 9:43 pm
Operator : K.Ruest
Sample : LCSD Inst : MSVOA-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

1st 09/18/17 2nd 09/20/17

Quant Time: Sep 18 09:33:44 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12114.D
Acq On : 15 Sep 2017 8:59 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 18 09:26:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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	106	0.00
2	P	Dichlorodifluoromethane	0.6875	0.8232	-19.7	129	0.00
3	P	Chloromethane	1.3115	1.5353	-17.1	128	0.00
4	P	Vinyl Chloride	0.8551	0.9981	-16.7	125	0.00
5	P	Bromomethane	0.4196	0.3984	5.1	129	0.00
6	P	Chloroethane	0.5316	0.5116	3.8	116	0.00
7		Freon 21	1.1684	1.2096	-3.5	116	0.00
8	P	Trichlorofluoromethane	0.8774	0.8705	0.8	114	0.00
9		Diethyl Ether	0.7761	0.8212	-5.8	116	0.00
10		Freon 123a	0.6969	0.7428	-6.6	121	0.00
11		Freon 123	0.7746	0.8014	-3.5	116	0.00
12		Acrolein	0.2241	0.2175	2.9	106	0.00
13	P	1,1-Diclethene	0.5454	0.5852	-7.3	126	0.00
14	P	Freon 113	0.4845	0.5223	-7.8	126	0.00
15	P	Acetone	0.6092	0.5471	10.2	95	0.00
16		2-Propanol	0.1265	0.1207	4.6	102	0.00
17		Iodomethane	0.5337	0.6516	-22.1#	115	0.00
18	P	Carbon Disulfide	1.4371	1.5078	-4.9	113	0.00
19		Acetonitrile	0.1161	0.1115	4.0	98	0.00
20		Allyl Chloride	0.2678	0.2474	7.6	100	0.00
21	P	Methyl Acetate	1.6183	1.1841	26.8#	80	0.00
22	P	Methylene Chloride	0.5910	0.6408	-8.4	122	0.00
23		TBA	0.1759	0.1652	6.1	91	0.00
24		Acrylonitrile	0.5553	0.6033	-8.6	111	0.00
25	P	Methyl-t-Butyl Ether	2.1219	2.0933	1.3	105	0.00
26	P	trans-1,2-Dichloroethene	0.5619	0.6155	-9.5	119	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-4.00#
28	P	1,1-Diclethane	1.2596	1.3178	-4.6	113	0.00
29		Vinyl Acetate	0.1296	0.1536	-18.5	131	0.00
30		DIPE	3.2783	3.4635	-5.6	113	0.00
31		2-Chloro-1,3-Butadiene	1.3249	1.3840	-4.5	111	0.00
32		ETBE	2.6561	2.6128	1.6	105	0.00
33		2,2-Dichloropropane	0.8733	0.7826	10.4	100	0.00
34	P	cis-1,2-Dichloroethene	0.6585	0.6679	-1.4	111	0.00
35	P	2-Butanone	0.7817	0.7804	0.2	103	-0.05
36		Propionitrile	0.2345	0.2440	-4.1	109	0.00
37		Bromochloromethane	0.3957	0.3899	1.5	110	0.00
38		Methacrylonitrile	0.3837	0.3649	4.9	99	0.00
39		Tetrahydrofuran	0.4841	0.5023	-3.8	108	0.00
40	P	Chloroform	1.0096	0.9962	1.3	107	0.00
41	P	1,1,1-Trichloroethane	0.8523	0.8585	-0.7	107	0.00
42		TAME	1.9783	1.9637	0.7	105	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	108	0.00
44	P	Cyclohexane	0.5281	0.5752	-8.9	126	0.00
45	s	surr4,Dibrflmethane	0.2788	0.2711	2.8	103	0.00
46	P	Carbontetrachloride	0.4177	0.4317	-3.4	114	0.00
47		1,1-Dichloropropene	0.4915	0.5231	-6.4	117	0.00
48	s	surr1,1,2-dichloroethane-d4	0.4445	0.4338	2.4	104	0.00
49	P	Benzene	1.4887	1.5449	-3.8	115	0.00
50	P	1,2-Dichloroethane	0.6433	0.6543	-1.7	112	0.00
51		Iso-Butyl Alcohol	0.0596	0.0566	5.0	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12114.D
Acq On : 15 Sep 2017 8:59 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 18 09:26:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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		n-Heptane	0.7753	0.8125	-4.8	118	0.00
53		1-Butanol	0.0320	0.0319	0.3	100	-0.01
54	P	Trichloroethene	0.3805	0.3912	-2.8	113	0.00
55	P	Methylcyclohexane	0.6979	0.7947	-13.9	123	0.00
56	P	1,2-Diclpropane	0.4722	0.5011	-6.1	117	0.00
57		Dibromomethane	0.2318	0.2344	-1.1	112	0.00
58		1,4-Dioxane	0.0089	0.0090	-1.1	101	0.00
59		Methyl Methacrylate	0.3628	0.3898	-7.4	109	0.00
60	P	Bromodichloromethane	0.4163	0.4417	-6.1	108	0.00
61		2-Nitropropane	0.1821	0.1633	10.3	92	0.00
62		2-Chloroethylvinyl Ether	0.2734	0.3226	-18.0	117	0.00
63	P	cis-1,3-Dichloropropene	0.5855	0.6192	-5.8	109	0.00
64	P	4-Methyl-2-pentanone	0.8447	0.8574	-1.5	110	0.00
65	s	SURR3,Toluene-d8	1.2885	1.3051	-1.3	106	0.00
66	P	Toluene	1.5984	1.6949	-6.0	116	0.00
67	P	trans-1,3-Dichloropropene	0.5339	0.5714	-7.0	111	0.00
68		Ethyl Methacrylate	0.6232	0.6549	-5.1	110	0.00
69	P	1,1,2-Trichloroethane	0.3556	0.3668	-3.1	115	0.00
70	s	SURR2,BFB	0.5066	0.4980	1.7	102	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	108	0.00
72	P	Tetrachloroethene	0.3076	0.3259	-5.9	121	0.00
73	P	2-Hexanone	0.7193	0.7132	0.8	104	0.00
74		1,3-Dichloropropane	0.7613	0.7451	2.1	107	0.00
75	P	Dibromochloromethane	0.3603	0.3509	2.6	103	0.00
76		N-Butyl Acetate	1.3621	1.4760	-8.4	115	0.00
77	P	1,2-Dibromoethane	0.3916	0.4150	-6.0	112	0.00
78	P	Chlorobenzene	1.1102	1.1857	-6.8	116	0.00
79		3-CBTF	0.5290	0.5432	-2.7	114	0.00
80		4-CBTF	0.4707	0.4812	-2.2	113	0.00
81		1,1,1,2-Tetrachloroethane	0.3681	0.3804	-3.3	111	0.00
82	P	Ethylbenzene	0.6045	0.6510	-7.7	118	0.00
83	P	(m+p)Xylene	0.7430	0.7871	-5.9	116	0.00
84	P	o-Xylene	0.7369	0.7747	-5.1	115	0.00
85	P	Styrene	1.1869	1.3144	-10.7	114	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	108	0.00
87	P	Bromoform	0.4189	0.4235	-1.1	102	0.00
88		2-CBTF	1.0078	1.0504	-4.2	112	0.00
89	P	Isopropylbenzene	3.6503	3.9984	-9.5	116	0.00
90		Cyclohexanone	0.3342	0.3082	7.8	87	0.00
91		trans-1,4-Dichloro-2-Butene	0.4399	0.4252	3.3	96	0.00
92	P	1,1,2,2-Tetrachloroethane	1.0988	1.1452	-4.2	107	0.00
93		Bromobenzene	0.8999	0.9380	-4.2	116	0.00
94		1,2,3-Trichloropropane	0.4074	0.3925	3.7	101	0.00
95		n-Propylbenzene	4.2960	4.5442	-5.8	115	0.00
96		2-Chlorotoluene	2.7183	2.7770	-2.2	112	0.00
97		3-Chlorotoluene	2.7561	2.7297	1.0	105	0.00
98		4-Chlorotoluene	3.0940	3.2516	-5.1	114	0.00
99		1,3,5-Trimethylbenzene	3.0210	3.2738	-8.4	114	0.00
100		tert-Butylbenzene	2.7472	2.8252	-2.8	114	0.00
101		1,2,4-Trimethylbenzene	3.1699	3.3025	-4.2	111	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12114.D
Acq On : 15 Sep 2017 8:59 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 18 09:26:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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		3,4-DCBTF	0.7817	0.7719	1.3	113	0.00
103		sec-Butylbenzene	4.0094	4.1047	-2.4	110	0.00
104		p-Isopropyltoluene	3.2374	3.4664	-7.1	112	0.00
105	P	1,3-Dclbenz	1.7406	1.7790	-2.2	113	0.00
106	P	1,4-Dclbenz	1.7539	1.7961	-2.4	112	0.00
107		2,4-DCBTF	0.6855	0.7098	-3.5	110	0.00
108		2,5-DCBTF	0.7751	0.8335	-7.5	117	0.00
109		n-Butylbenzene	3.0177	3.2060	-6.2	112	0.00
110	P	1,2-Dclbenz	1.6899	1.7573	-4.0	112	0.00
111	P	1,2-Dibromo-3-chloropropane	0.2815	0.2572	8.6	94	0.00
112		Trielution Dichlorotoluene	1.6555	1.6371	1.1	105	0.00
113		1,3,5 Trichlorobenzene	1.2741	1.2529	1.7	109	0.00
114		Coelution Dichlorotoluene	1.8359	1.8231	0.7	106	0.00
115	P	1,2,4-Tcbenzene	1.3433	1.3216	1.6	111	0.00
116		Hexachlorobt	0.5589	0.5169	7.5	104	0.00
117		Naphthalen	4.2794	4.2521	0.6	98	0.00
118		1,2,3-Tclbenzene	1.3644	1.3257	2.8	102	0.00
119		2,4,5-Trichlorotolene	1.0887	0.9990	8.2	96	0.00
120		2,3,6-Trichlorotoluene	1.0154	0.9115	10.2	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12114.D
Acq On : 15 Sep 2017 8:59 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 18 09:26:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	261558	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	430093	50.00	ppb		0.00
71) d5-Chlorobenzene	9.785	117	388030	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	196368	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	116612	48.62	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.24%				
48) surr1,1,2-dichloroetha...	5.773	65	186594	48.81	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.62%				
65) SURR3,Toluene-d8	8.297	98	561300	50.64	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.28%				
70) SURR2,BFB	10.864	95	214180	49.15	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	215327	59.87	ppb		95
3) Chloromethane	1.311	50	401579	58.53	ppb		94
4) Vinyl Chloride	1.384	62	261068	58.36	ppb		96
5) Bromomethane	1.609	94	104198	65.01	ppb		96
6) Chloroethane	1.689	64	133819	56.64	ppb		96
7) Freon 21	1.835	67	316382	51.76	ppb		100
8) Trichlorofluoromethane	1.884	101	227689	49.61	ppb		99
9) Diethyl Ether	2.122	59	214791	52.91	ppb		81
10) Freon 123a	2.122	67	194274	53.29	ppb		97
11) Freon 123	2.176	83	209607	51.73	ppb		99
12) Acrolein	2.219	56	284479	242.65	ppb		92
13) 1,1-Diclethene	2.311	96	153075	53.65	ppb	#	70
14) Freon 113	2.317	101	136624	53.91	ppb		94
15) Acetone	2.347	43	143088	44.90	ppb		91
16) 2-Propanol	2.481	45	631632	954.76	ppb		94
17) Iodomethane	2.439	142	170428	56.20	ppb		95
18) Carbon Disulfide	2.500	76	394374	52.46	ppb		97
19) Acetonitrile	2.597	40	145789	240.03	ppb		99
20) Allyl Chloride	2.640	76	64704	46.19	ppb	#	92
21) Methyl Acetate	2.658	43	309722	36.59	ppb		96
22) Methylene Chloride	2.756	84	167604	54.21	ppb		92
23) TBA	2.884	59	864054	939.28	ppb		87
24) Acrylonitrile	3.006	53	788999	271.63	ppb		99
25) Methyl-t-Butyl Ether	3.054	73	547527	49.33	ppb		90
26) trans-1,2-Dichloroethene	3.048	96	160986	54.76	ppb	#	85
28) 1,1-Diclethane	3.542	63	344689	52.31	ppb		99
29) Vinyl Acetate	3.634	86	40166	59.24	ppb	#	77
30) DIPE	3.670	45	905902	52.82	ppb		96
31) 2-Chloro-1,3-Butadiene	3.664	53	361999	52.23	ppb		77
32) ETBE	4.194	59	683402	49.19	ppb		92
33) 2,2-Dichloropropane	4.371	77	204704	44.81	ppb		97
34) cis-1,2-Dichloroethene	4.377	96	174694	50.72	ppb	#	81
35) 2-Butanone	4.420	43	204127	49.92	ppb		92
36) Propionitrile	4.505	54	319084	260.15	ppb		92
37) Bromochloromethane	4.774	130	101977	49.26	ppb		89
38) Methacrylonitrile	4.774	67	95454	47.56	ppb		99
39) Tetrahydrofuran	4.859	42	131392	51.89	ppb		84
40) Chloroform	4.950	83	260565	49.34	ppb		93
41) 1,1,1-Trichloroethane	5.249	97	224554	50.37	ppb		91

1st KR 09/18/17
2nd BA 09/20/17

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12114.D
Acq On : 15 Sep 2017 8:59 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 18 09:26:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.090	73	513613	49.63	ppb		91
44) Cyclohexane	5.340	41	247370	54.46	ppb		90
46) Carbontetrachloride	5.523	117	185660	51.67	ppb		89
47) 1,1-Dichloropropene	5.542	75	225003	53.22	ppb		94
49) Benzene	5.853	78	664465	51.89	ppb		89
50) 1,2-Dichloroethane	5.889	62	281395	50.85	ppb		95
51) Iso-Butyl Alcohol	5.859	43	487002	949.31	ppb		98
52) n-Heptane	6.346	43	349458	52.40	ppb		91
53) 1-Butanol	6.828	56	685229	2492.43	ppb		81
54) Trichloroethene	6.804	130	168238	51.40	ppb		98
55) Methylcyclohexane	7.041	55	341815	56.94	ppb		78
56) 1,2-Diclpropane	7.084	63	215536	53.06	ppb		93
57) Dibromomethane	7.224	93	100829	50.56	ppb		98
58) 1,4-Dioxane	7.279	88	77481	1016.90	ppb	#	81
59) Methyl Methacrylate	7.310	69	167649	53.72	ppb		95
60) Bromodichloromethane	7.450	83	189965	53.06	ppb		98
61) 2-Nitropropane	7.736	41	140455	89.67	ppb		94
62) 2-Chloroethylvinyl Ether	7.858	63	138769	59.01	ppb		89
63) cis-1,3-Dichloropropene	7.998	75	266317	52.88	ppb		99
64) 4-Methyl-2-pentanone	8.200	43	368764	50.75	ppb		90
66) Toluene	8.370	91	728949	53.02	ppb		96
67) trans-1,3-Dichloropropene	8.639	75	245775	53.52	ppb		99
68) Ethyl Methacrylate	8.779	69	281677	52.54	ppb		86
69) 1,1,2-Trichloroethane	8.828	97	157774	51.58	ppb		94
72) Tetrachloroethene	8.962	164	126452	52.97	ppb		92
73) 2-Hexanone	9.114	43	276753	49.58	ppb		83
74) 1,3-Dichloropropane	8.992	76	289114	48.94	ppb		93
75) Dibromochloromethane	9.218	129	136152	48.69	ppb		98
76) N-Butyl Acetate	9.273	43	572720	54.18	ppb		89
77) 1,2-Dibromoethane	9.315	107	161043	52.99	ppb		94
78) Chlorobenzene	9.815	112	460079	53.40	ppb		99
79) 3-CBTF	9.834	180	210760	51.34	ppb		95
80) 4-CBTF	9.888	180	186709	51.12	ppb		99
81) 1,1,1,2-Tetrachloroethane	9.901	131	147598	51.67	ppb		95
82) Ethylbenzene	9.937	106	252621	53.84	ppb		92
83) (m+p)Xylene	10.047	106	610833	105.94	ppb		92
84) o-Xylene	10.407	106	300609	52.57	ppb		98
85) Styrene	10.419	104	510029	55.37	ppb		98
87) Bromoform	10.571	173	83159	50.55	ppb		98
88) 2-CBTF	10.650	180	206266	52.11	ppb		94
89) Isopropylbenzene	10.742	105	785157	54.77	ppb		100
90) Cyclohexanone	10.797	55	1210255	922.05	ppb		84
91) trans-1,4-Dichloro-2-B...	11.047	53	83491	48.33	ppb		96
92) 1,1,2,2-Tetrachloroethane	10.998	83	224881	52.11	ppb		87
93) Bromobenzene	10.986	156	184200	52.12	ppb		99
94) 1,2,3-Trichloropropane	11.028	110	77074	48.18	ppb		98
95) n-Propylbenzene	11.095	91	892343	52.89	ppb		98
96) 2-Chlorotoluene	11.156	91	545306	51.08	ppb		97
97) 3-Chlorotoluene	11.211	91	536030	49.52	ppb		96
98) 4-Chlorotoluene	11.254	91	638515	52.55	ppb		96
99) 1,3,5-Trimethylbenzene	11.248	105	642879	54.19	ppb		95
100) tert-Butylbenzene	11.522	119	554787	51.42	ppb		100
101) 1,2,4-Trimethylbenzene	11.559	105	648498	52.09	ppb		95
102) 3,4-DCBTF	11.620	214	151574	49.37	ppb		97
103) sec-Butylbenzene	11.705	105	806024	51.19	ppb		99
104) p-Isopropyltoluene	11.827	119	680693	53.54	ppb		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12114.D
Acq On : 15 Sep 2017 8:59 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 18 09:26:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	349337	51.10	ppb		99
106) 1,4-Dclbenz	11.858	146	352693	51.20	ppb		95
107) 2,4-DCBTF	11.912	214	139391	51.77	ppb		92
108) 2,5-DCBTF	11.955	214	163682	53.77	ppb		95
109) n-Butylbenzene	12.156	91	629563	53.12	ppb		98
110) 1,2-Dclbenz	12.162	146	345069	51.99	ppb		97
111) 1,2-Dibromo-3-chloropr...	12.784	157	50508	45.68	ppb		93
112) Trielution Dichlorotol...	12.906	125	964418	148.33	ppb	#	92
113) 1,3,5 Trichlorobenzene	12.955	180	246029	49.17	ppb		97
114) Coelution Dichlorotoluene	13.229	125	715989	99.30	ppb		95
115) 1,2,4-Tcbenzene	13.443	180	259529	49.19	ppb		95
116) Hexachlorobt	13.577	225	101508	46.25	ppb		93
117) Naphthalen	13.632	128	834973	49.68	ppb		99
118) 1,2,3-Tclbenzene	13.821	180	260318	48.58	ppb		92
119) 2,4,5-Trichlorotolene	14.406	159	196176	45.88	ppb	#	90
120) 2,3,6-Trichlorotoluene	14.491	159	178984	44.88	ppb		97

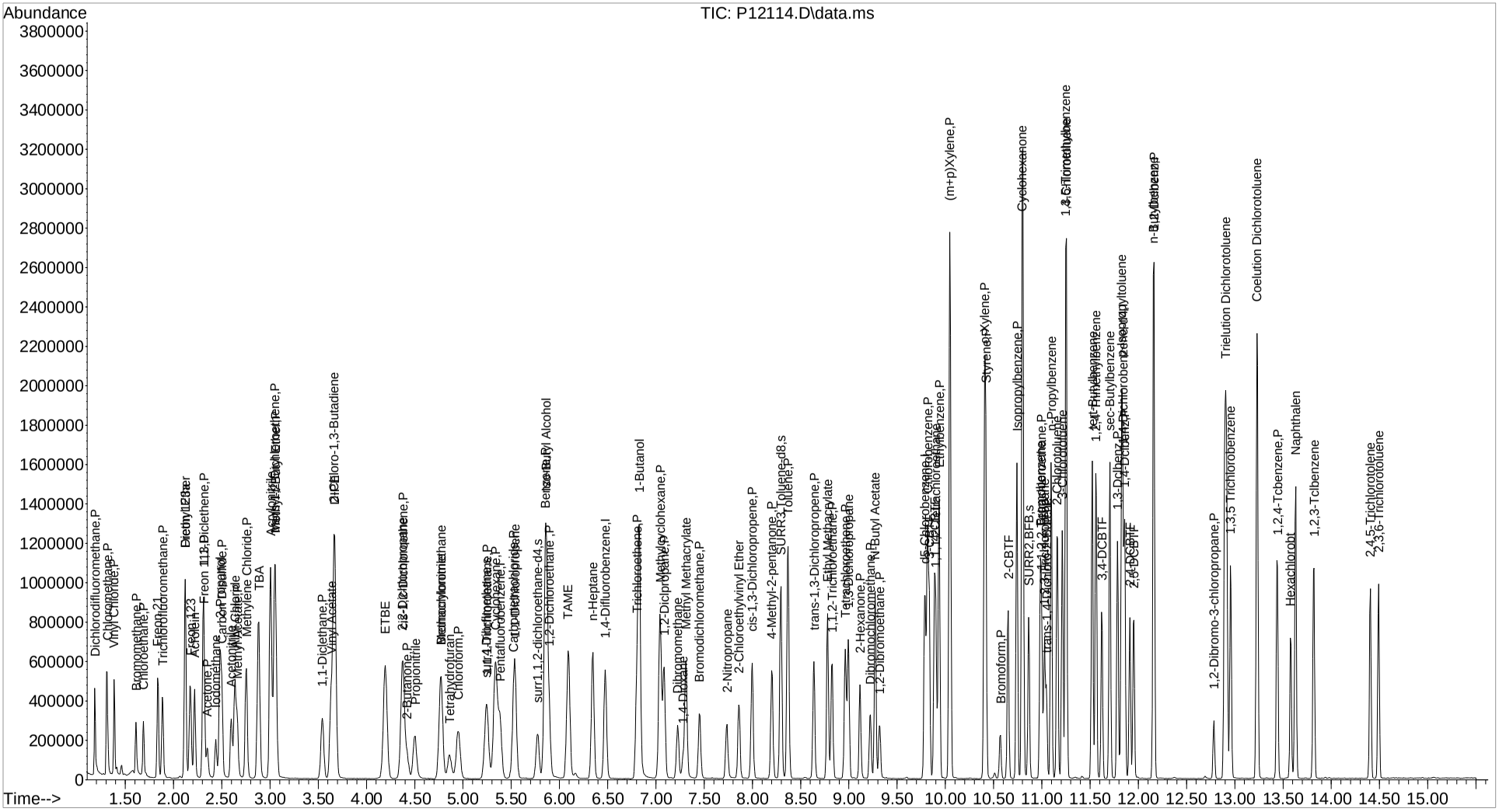
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12114.D
Acq On : 15 Sep 2017 8:59 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 18 09:26:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

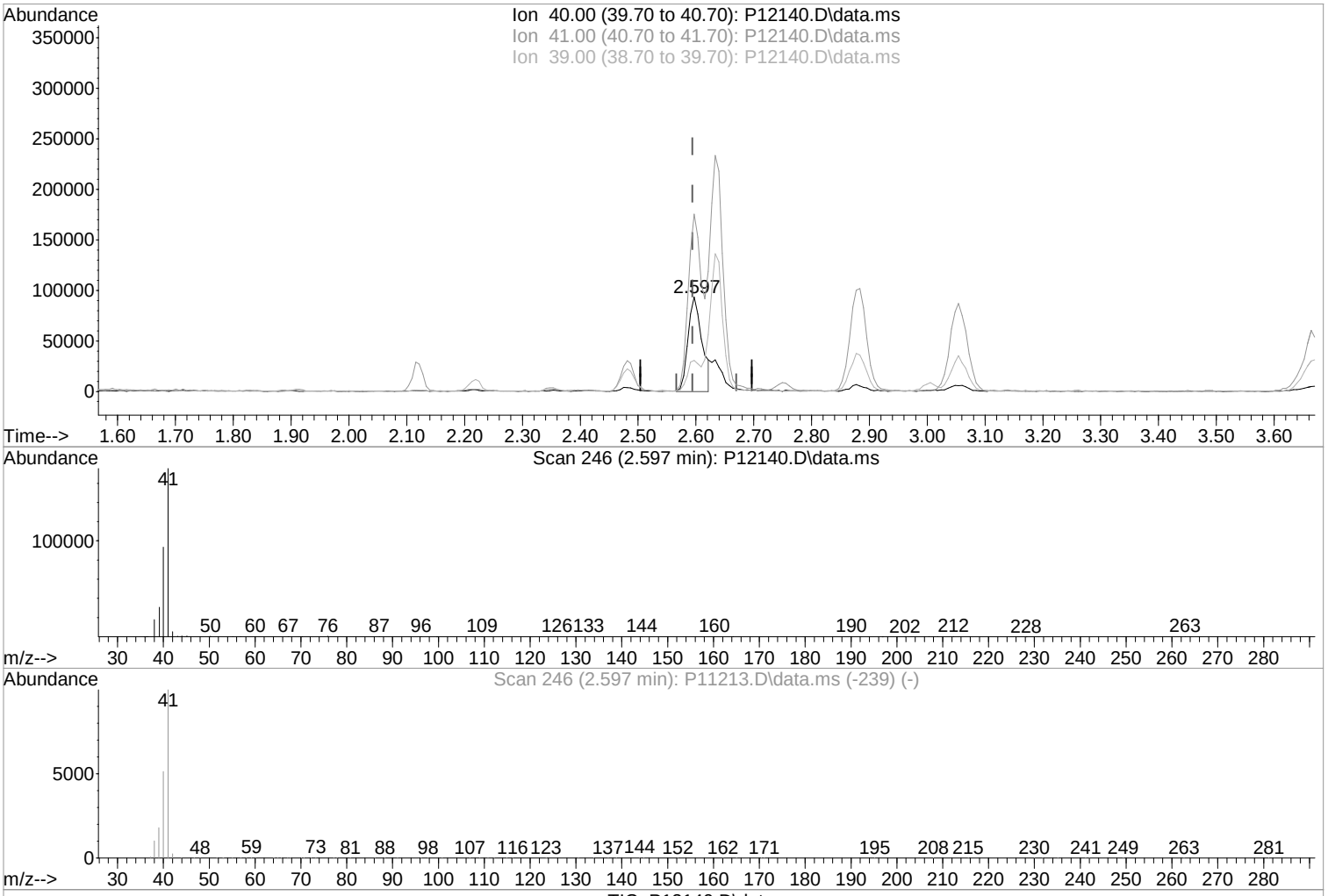
1st 09/18/17
2nd 09/20/17



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:52:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12140.D\data.ms

(19) Acetonitrile

2.597min (+0.003) 230.49 ppb m

response 156744

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	187.94
39.00	35.40	32.94
0.00	0.00	0.00

Manual Integration:

After

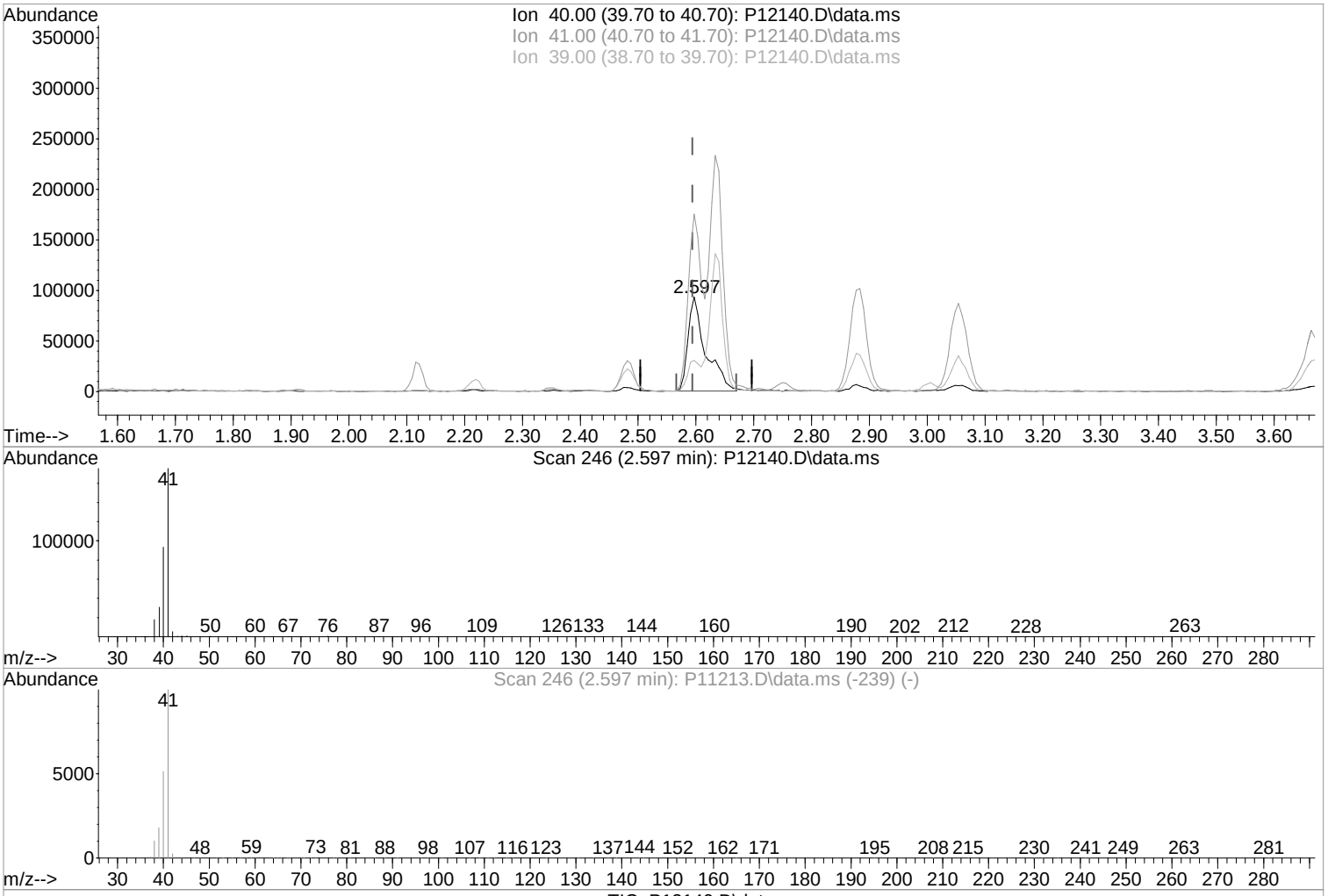
Poor integration.

09/18/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:52:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



TIC: P12140.D\data.ms

(19) Acetonitrile

2.597min (+0.003) 293.93 ppb

response 199887

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	187.94
39.00	35.40	32.94
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:53:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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	119	0.00
2	P	Dichlorodifluoromethane	0.6875	0.6883	-0.1	121	0.00
3	P	Chloromethane	1.3115	1.4086	-7.4	132	0.00
4	P	Vinyl Chloride	0.8551	0.8336	2.5	117	0.00
5	P	Bromomethane	0.4196	0.3415	-0.3 ~~18.6~~	124	0.00
6	P	Chloroethane	0.5316	0.4381	3.0 ~~17.6~~	111	0.00
7		Freon 21	1.1684	0.9566	18.1	103	0.00
8	P	Trichlorofluoromethane	0.8774	0.7439	15.2	109	0.00
9		Diethyl Ether	0.7761	0.7363	5.1	117	0.00
10		Freon 123a	0.6969	0.6286	9.8	115	0.00
11		Freon 123	0.7746	0.7008	9.5	114	0.00
12		Acrolein	0.2241	0.2175	2.9	118	0.00
13	P	1,1-Diclethene	0.5454	0.4982	8.7	120	0.00
14	P	Freon 113	0.4845	0.4761	1.7	129	0.00
15	P	Acetone	0.6092	0.4967	18.5	96	-0.01
16		2-Propanol	0.1265	0.1108	12.4	105	0.00
17		Iodomethane	0.5337	0.5577	2.3 ~~-4.5~~	110	0.00
18	P	Carbon Disulfide	1.4371	1.3587	5.5	114	0.00
19		Acetonitrile	0.1161	0.1070	7.8	105	0.00
20		Allyl Chloride	0.2678	0.2406	10.2	109	0.00
21	P	Methyl Acetate	1.6183	1.0700	33.9#	80	0.00
22	P	Methylene Chloride	0.5910	0.5508	6.8	117	0.00
23		TBA	0.1759	0.1389	21.0#	86	0.00
24		Acrylonitrile	0.5553	0.5353	3.6	110	0.00
25	P	Methyl-t-Butyl Ether	2.1219	1.7799	16.1	100	0.00
26	P	trans-1,2-Dichloroethene	0.5619	0.5365	4.5	116	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-4.00#
28	P	1,1-Diclethane	1.2596	1.1770	6.6	113	0.00
29		Vinyl Acetate	0.1296	0.1634	-26.1#	156	0.00
30		DIPE	3.2783	3.2038	2.3	117	0.00
31		2-Chloro-1,3-Butadiene	1.3249	1.2976	2.1	117	0.00
32		ETBE	2.6561	2.3729	10.7	107	0.00
33		2,2-Dichloropropane	0.8733	0.8029	8.1	115	0.00
34	P	cis-1,2-Dichloroethene	0.6585	0.5925	10.0	111	0.00
35	P	2-Butanone	0.7817	0.7394	5.4	109	-0.05
36		Propionitrile	0.2345	0.2160	7.9	108	0.00
37		Bromochloromethane	0.3957	0.3484	12.0	110	0.00
38		Methacrylonitrile	0.3837	0.3241	15.5	99	0.00
39		Tetrahydrofuran	0.4841	0.4621	4.5	112	0.00
40	P	Chloroform	1.0096	0.8836	12.5	106	0.00
41	P	1,1,1-Trichloroethane	0.8523	0.7993	6.2	111	0.00
42		TAME	1.9783	1.6837	14.9	101	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	120	0.00
44	P	Cyclohexane	0.5281	0.5176	2.0	126	0.00
45	s	surr4,Dibrflmethane	0.2788	0.2799	-0.4	118	0.00
46	P	Carbontetrachloride	0.4177	0.3809	8.8	112	0.00
47		1,1-Dichloropropene	0.4915	0.4517	8.1	113	0.00
48	s	surr1,1,2-dichloroethane-d4	0.4445	0.4018	9.6	107	0.00
49	P	Benzene	1.4887	1.3599	8.7	112	0.00
50	P	1,2-Dichloroethane	0.6433	0.5395	16.1	103	0.00
51		Iso-Butyl Alcohol	0.0596	0.0508	14.8	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:53:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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		n-Heptane	0.7753	0.8528	-10.0	138	0.00
53		1-Butanol	0.0320	0.0290	9.4	102	-0.01
54	P	Trichloroethene	0.3805	0.3469	8.8	112	0.00
55	P	Methylcyclohexane	0.6979	0.7277	-4.3	126	0.00
56	P	1,2-Diclpropane	0.4722	0.4307	8.8	112	0.00
57		Dibromomethane	0.2318	0.2058	11.2	109	0.00
58		1,4-Dioxane	0.0089	0.0076	14.6	95	0.00
59		Methyl Methacrylate	0.3628	0.3245	10.6	102	0.00
60	P	Bromodichloromethane	0.4163	0.3902	6.3	106	0.00
61		2-Nitropropane	0.1821	0.1470	19.3	92	0.00
62		2-Chloroethylvinyl Ether	0.2734	0.2591	5.2	104	0.00
63	P	cis-1,3-Dichloropropene	0.5855	0.5575	4.8	109	0.00
64	P	4-Methyl-2-pentanone	0.8447	0.7909	6.4	113	0.00
65	s	SURR3,Toluene-d8	1.2885	1.2352	4.1	112	0.00
66	P	Toluene	1.5984	1.4614	8.6	111	0.00
67	P	trans-1,3-Dichloropropene	0.5339	0.4975	6.8	107	0.00
68		Ethyl Methacrylate	0.6232	0.5499	11.8	103	0.00
69	P	1,1,2-Trichloroethane	0.3556	0.3244	8.8	113	0.00
70	s	SURR2,BFB	0.5066	0.4828	4.7	110	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	120	0.00
72	P	Tetrachloroethene	0.3076	0.2905	5.6	120	0.00
73	P	2-Hexanone	0.7193	0.6655	7.5	108	0.00
74		1,3-Dichloropropane	0.7613	0.6499	14.6	104	0.00
75	P	Dibromochloromethane	0.3603	0.3303	8.3	107	0.00
76		N-Butyl Acetate	1.3621	1.3241	2.8	114	0.00
77	P	1,2-Dibromoethane	0.3916	0.3592	8.3	108	0.00
78	P	Chlorobenzene	1.1102	1.0280	7.4	111	0.00
79		3-CBTF	0.5290	0.5166	2.3	120	0.00
80		4-CBTF	0.4707	0.4703	0.1	122	0.00
81		1,1,1,2-Tetrachloroethane	0.3681	0.3361	8.7	109	0.00
82	P	Ethylbenzene	0.6045	0.5764	4.6	116	0.00
83	P	(m+p)Xylene	0.7430	0.7112	4.3	116	0.00
84	P	o-Xylene	0.7369	0.7025	4.7	116	0.00
85	P	Styrene	1.1869	1.1889	-0.2	114	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	119	0.00
87	P	Bromoform	0.4189	0.4110	1.9	109	0.00
88		2-CBTF	1.0078	1.0210	-1.3	120	0.00
89	P	Isopropylbenzene	3.6503	3.5501	2.7	113	0.00
90		Cyclohexanone	0.3342	0.3082	7.8	96	0.00
91		trans-1,4-Dichloro-2-Butene	0.4399	0.3891	11.5	97	0.00
92	P	1,1,2,2-Tetrachloroethane	1.0988	1.0056	8.5	103	0.00
93		Bromobenzene	0.8999	0.8427	6.4	114	0.00
94		1,2,3-Trichloropropane	0.4074	0.3341	18.0	95	0.00
95		n-Propylbenzene	4.2960	4.0770	5.1	113	0.00
96		2-Chlorotoluene	2.7183	2.5094	7.7	111	0.00
97		3-Chlorotoluene	2.7561	2.3992	12.9	102	0.00
98		4-Chlorotoluene	3.0940	2.9018	6.2	112	0.00
99		1,3,5-Trimethylbenzene	3.0210	2.9670	1.8	114	0.00
100		tert-Butylbenzene	2.7472	2.5980	5.4	115	0.00
101		1,2,4-Trimethylbenzene	3.1699	3.0092	5.1	111	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:53:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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		3,4-DCBTF	0.7817	0.7942	-1.6	128	0.00
103		sec-Butylbenzene	4.0094	3.8375	4.3	113	0.00
104		p-Isopropyltoluene	3.2374	3.2417	-0.1	115	0.00
105	P	1,3-Dclbenz	1.7406	1.6679	4.2	116	0.00
106	P	1,4-Dclbenz	1.7539	1.7204	1.9	119	0.00
107		2,4-DCBTF	0.6855	0.6994	-2.0	119	0.00
108		2,5-DCBTF	0.7751	0.7712	0.5	119	0.00
109		n-Butylbenzene	3.0177	2.9926	0.8	115	0.00
110	P	1,2-Dclbenz	1.6899	1.6731	1.0	117	0.00
111	P	1,2-Dibromo-3-chloropropane	0.2815	0.2413	14.3	97	0.00
112		Trielution Dichlorotoluene	1.6555	1.5803	4.5	112	0.00
113		1,3,5 Trichlorobenzene	1.2741	1.2121	4.9	116	0.00
114		Coelution Dichlorotoluene	1.8359	1.7574	4.3	112	0.00
115	P	1,2,4-Tcbenzene	1.3433	1.2702	5.4	117	0.00
116		Hexachlorobt	0.5589	0.5165	7.6	114	0.00
117		Naphthalen	4.2794	3.8381	10.3	98	0.00
118		1,2,3-Tclbenzene	1.3644	1.2630	7.4	107	0.00
119		2,4,5-Trichlorotolene	1.0887	1.0118	7.1	107	0.00
120		2,3,6-Trichlorotoluene	1.0154	0.9013	11.2	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:53:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	292848	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	478994	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	430664	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	216278	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	134094	50.20	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.40%				
48) surr1,1,2-dichloroetha...	5.773	65	192476	45.21	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.42%				
65) SURR3,Toluene-d8	8.291	98	591662	47.93	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 95.86%				
70) SURR2,BFB	10.864	95	231238	47.65	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	201560	50.05	ppb		98
3) Chloromethane	1.305	50	412512	53.70	ppb		92
4) Vinyl Chloride	1.384	62	244128	48.74	ppb		95
5) Bromomethane	1.609	94	100022	50.14	ppb		90
6) Chloroethane	1.689	64	128284	48.48	ppb		98
7) Freon 21	1.835	67	280127	40.94	ppb		97
8) Trichlorofluoromethane	1.884	101	217856	42.39	ppb		98
9) Diethyl Ether	2.115	59	215627	47.44	ppb		81
10) Freon 123a	2.121	67	184079	45.10	ppb		98
11) Freon 123	2.170	83	205226	45.23	ppb		98
12) Acrolein	2.219	56	318446	242.60	ppb		91
13) 1,1-Diclethene	2.310	96	145893	45.67	ppb	#	64
14) Freon 113	2.310	101	139432	49.14	ppb		94
15) Acetone	2.347	43	145466	40.77	ppb		97
16) 2-Propanol	2.481	45	649133	876.38	ppb		97
17) Iodomethane	2.438	142	163312	48.87	ppb		96
18) Carbon Disulfide	2.499	76	397888	47.27	ppb		98
19) Acetonitrile	2.597	40	156744m	230.49	ppb		
20) Allyl Chloride	2.634	76	70465	44.93	ppb	#	80
21) Methyl Acetate	2.658	43	313335	33.06	ppb		95
22) Methylene Chloride	2.749	84	161290	46.59	ppb		96
23) TBA	2.884	59	813433	789.77	ppb		85
24) Acrylonitrile	3.005	53	783742	240.99	ppb		99
25) Methyl-t-Butyl Ether	3.054	73	521245	41.94	ppb		93
26) trans-1,2-Dichloroethene	3.048	96	157118	47.74	ppb	#	78
28) 1,1-Diclethane	3.542	63	344693	46.72	ppb		96
29) Vinyl Acetate	3.627	86	47866	63.05	ppb	#	85
30) DIPE	3.670	45	938241	48.86	ppb		98
31) 2-Chloro-1,3-Butadiene	3.664	53	379993	48.97	ppb		82
32) ETBE	4.194	59	694911	44.67	ppb		91
33) 2,2-Dichloropropane	4.371	77	235140	45.97	ppb		94
34) cis-1,2-Dichloroethene	4.377	96	173526	44.99	ppb	#	83
35) 2-Butanone	4.420	43	216535	47.30	ppb		95
36) Propionitrile	4.499	54	316264	230.30	ppb		97
37) Bromochloromethane	4.767	130	102034	44.03	ppb		90
38) Methacrylonitrile	4.773	67	94904	42.23	ppb		98
39) Tetrahydrofuran	4.859	42	135322	47.73	ppb		93
40) Chloroform	4.950	83	258754	43.76	ppb		95
41) 1,1,1-Trichloroethane	5.249	97	234073	46.89	ppb		93

1st KR 09/18/17
2nd BA 09/19/17

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:53:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.096	73	493081	42.56	ppb		93
44) Cyclohexane	5.334	41	247926	49.01	ppb		89
46) Carbontetrachloride	5.529	117	182461	45.60	ppb		98
47) 1,1-Dichloropropene	5.535	75	216370	45.96	ppb		93
49) Benzene	5.859	78	651386	45.67	ppb		89
50) 1,2-Dichloroethane	5.895	62	258416	41.93	ppb		93
51) Iso-Butyl Alcohol	5.865	43	486886	852.19	ppb		100
52) n-Heptane	6.340	43	408475	55.00	ppb		87
53) 1-Butanol	6.828	56	695671	2272.08	ppb		81
54) Trichloroethene	6.803	130	166184	45.59	ppb		91
55) Methylcyclohexane	7.041	55	348549	52.13	ppb		82
56) 1,2-Diclpropane	7.084	63	206285	45.60	ppb		93
57) Dibromomethane	7.224	93	98582	44.39	ppb		96
58) 1,4-Dioxane	7.285	88	72455	853.85	ppb	#	79
59) Methyl Methacrylate	7.309	69	155439	44.73	ppb		98
60) Bromodichloromethane	7.450	83	186887	46.87	ppb		98
61) 2-Nitropropane	7.736	41	140799	80.72	ppb		95
62) 2-Chloroethylvinyl Ether	7.858	63	124093	47.38	ppb		81
63) cis-1,3-Dichloropropene	7.998	75	267018	47.61	ppb		96
64) 4-Methyl-2-pentanone	8.200	43	378824	46.82	ppb		84
66) Toluene	8.370	91	699996	45.72	ppb		96
67) trans-1,3-Dichloropropene	8.639	75	238318	46.60	ppb		98
68) Ethyl Methacrylate	8.779	69	263392	44.12	ppb		96
69) 1,1,2-Trichloroethane	8.828	97	155380	45.61	ppb		99
72) Tetrachloroethene	8.962	164	125128	47.23	ppb		88
73) 2-Hexanone	9.114	43	286615	46.26	ppb		84
74) 1,3-Dichloropropane	8.992	76	279896	42.69	ppb		93
75) Dibromochloromethane	9.224	129	142261	45.84	ppb		96
76) N-Butyl Acetate	9.273	43	570229	48.60	ppb		89
77) 1,2-Dibromoethane	9.315	107	154675	45.86	ppb		95
78) Chlorobenzene	9.815	112	442717	46.30	ppb		98
79) 3-CBTF	9.833	180	222501	48.83	ppb		93
80) 4-CBTF	9.888	180	202543	49.96	ppb		97
81) 1,1,1,2-Tetrachloroethane	9.900	131	144727	45.65	ppb		90
82) Ethylbenzene	9.937	106	248218	47.67	ppb	#	88
83) (m+p)Xylene	10.047	106	612580	95.72	ppb		93
84) o-Xylene	10.406	106	302522	47.66	ppb		100
85) Styrene	10.419	104	511997	50.08	ppb		93
87) Bromoform	10.571	173	88889	49.05	ppb		91
88) 2-CBTF	10.650	180	220820	50.66	ppb		93
89) Isopropylbenzene	10.742	105	767815	48.63	ppb		98
90) Cyclohexanone	10.803	55	1333206	922.22	ppb		85
91) trans-1,4-Dichloro-2-B...	11.047	53	84143	44.22	ppb		91
92) 1,1,2,2-Tetrachloroethane	10.998	83	217496	45.76	ppb		95
93) Bromobenzene	10.986	156	182256	46.82	ppb		96
94) 1,2,3-Trichloropropane	11.028	110	72259	41.01	ppb		95
95) n-Propylbenzene	11.095	91	881772	47.45	ppb		99
96) 2-Chlorotoluene	11.162	91	542728	46.16	ppb		97
97) 3-Chlorotoluene	11.211	91	518890	43.52	ppb		97
98) 4-Chlorotoluene	11.254	91	627600	46.89	ppb		96
99) 1,3,5-Trimethylbenzene	11.248	105	641699	49.11	ppb		98
100) tert-Butylbenzene	11.522	119	561890	47.29	ppb		97
101) 1,2,4-Trimethylbenzene	11.559	105	650820	47.46	ppb		97
102) 3,4-DCBTF	11.620	214	171771	50.80	ppb		95
103) sec-Butylbenzene	11.705	105	829957	47.86	ppb		98
104) p-Isopropyltoluene	11.827	119	701115	50.07	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 10:53:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	360733	47.91	ppb		97
106) 1,4-Dclbenz	11.863	146	372092	49.05	ppb		88
107) 2,4-DCBTF	11.912	214	151255	51.01	ppb		96
108) 2,5-DCBTF	11.955	214	166792	49.75	ppb		96
109) n-Butylbenzene	12.162	91	647243	49.59	ppb		99
110) 1,2-Dclbenz	12.162	146	361862	49.50	ppb		97
111) 1,2-Dibromo-3-chloropr...	12.784	157	52190	42.85	ppb		93
112) Trielution Dichlorotol...	12.906	125	1025320	143.18	ppb		95
113) 1,3,5 Trichlorobenzene	12.961	180	262158	47.57	ppb		96
114) Coelution Dichlorotoluene	13.235	125	760186	95.72	ppb		99
115) 1,2,4-Tcbenzene	13.442	180	274717	47.28	ppb		96
116) Hexachlorobt	13.583	225	111717	46.21	ppb		94
117) Naphthalen	13.631	128	830097	44.84	ppb		99
118) 1,2,3-Tclbenzene	13.820	180	273166	46.29	ppb		96
119) 2,4,5-Trichlorotolene	14.406	159	218824	46.47	ppb	#	93
120) 2,3,6-Trichlorotoluene	14.491	159	194937	44.38	ppb		96

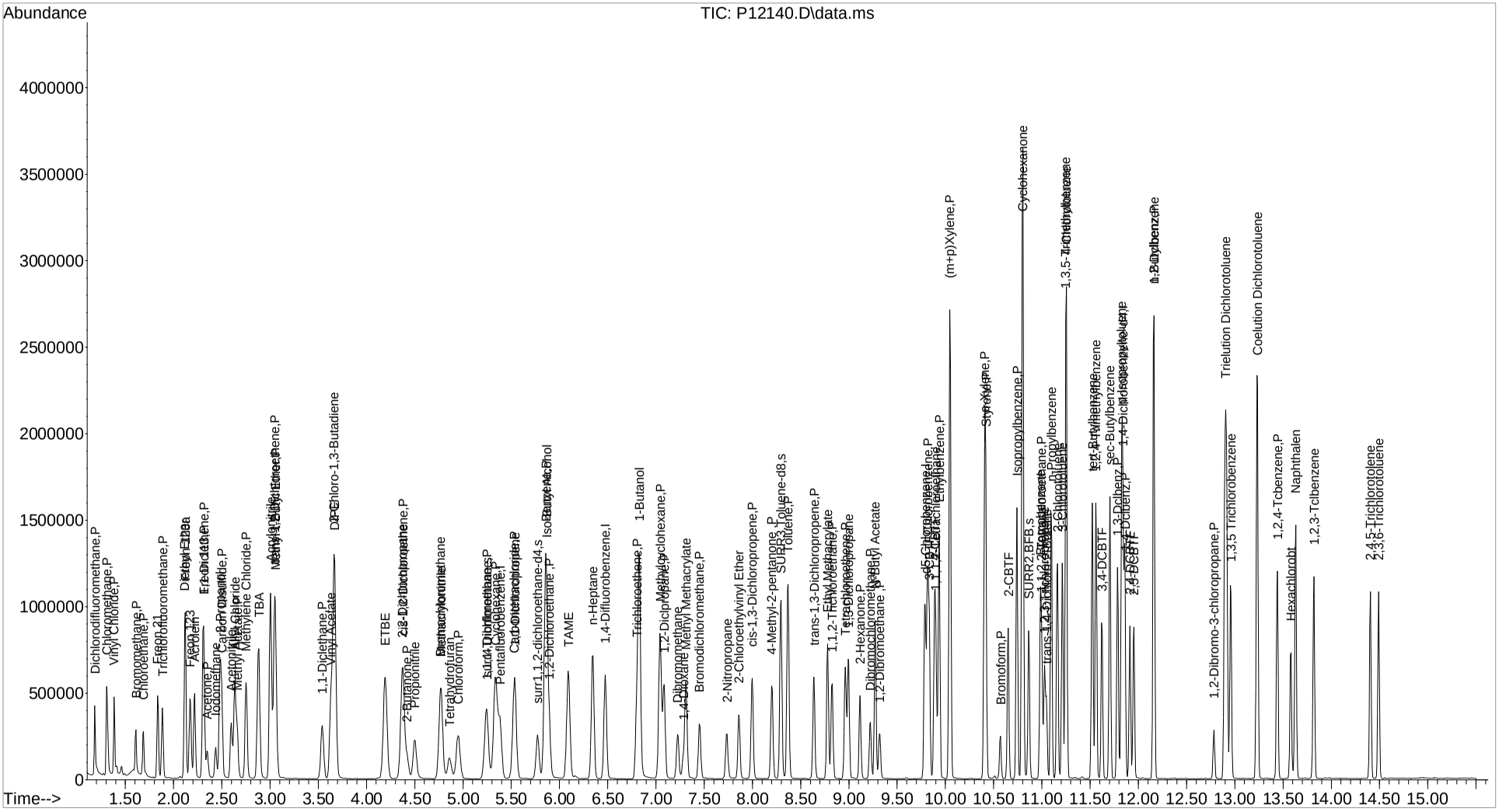
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12140.D
Acq On : 18 Sep 2017 10:37 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

1st 09/18/17 2nd 09/19/17

Quant Time: Sep 18 10:53:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\091517\P12113.D
Tune Time : 15 Sep 2017 8:37 pm

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\091517\P12114.D

File	Sample	Surrogate Recovery %				Internal Standard Responses		
						261558	430093	388030
						196368		
P12114.D								
	CCV	97	98	101	98	261558	430093	388030
				196368				
P12115.D								
	LCS	100	96	99	97	260311	424340	382390
				187498				
P12116.D								
	LCSD	101	96	99	97	260875	431719	393369
				195980				
P12117.D								
	VBLK	95	93	97	91	272688	437830	391052
				188573				
P12118.D								
	VBLK	98	94	99	94	259188	428622	374834
				188477				
P12119.D								
	R1708647-0	96	98	98	97	266825	427223	381440
				185954				
P12120.D								
	R1708647-0	95	95	97	95	256653	421149	371379
				182433				
P12121.D								
	R1708647-0	95	91	97	92	262936	428696	382652
				181569				
P12122.D								
	R1708647-0	96	95	98	95	260840	425203	384681
				185580				
P12123.D								
	R1708647-0	97	92	101	98	253284	408971	371531
				180297				
P12124.D								
	R1708647-0	95	95	99	95	265329	423152	379797
				189034				
P12125.D								
	R1708647-0	98	98	99	94	261456	423423	372290
				185986				
P12126.D								
	R1708647-0	99	95	98	95	265338	434313	386765
				188806				
P12127.D								

1st 09/18/17
2nd 09/20/17

```
         R1708647-0   96   91   99   94      252049     419290     372840
                                177246
-------------------------------------------------------------------------
P12128.D
         R1708647-0  100   97   98   94      253072     416307     363654
                                176813
-------------------------------------------------------------------------
P12129.D
         R1708647-0   94   88   96   91      260878     427717     386382
                                191405
-------------------------------------------------------------------------
P12130.D
         R1708647-0   97   98  100   98      266389     432260     390983
                                188952
-------------------------------------------------------------------------
P12131.D
         R1708647-0   92   95   97   92      245669     414225     367117
                                174842
-------------------------------------------------------------------------
P12132.D
         R1708647-0   98   96   97   95      254369     415141     370441
                                177134
-------------------------------------------------------------------------
P12133.D
         R1708647-0   95   90   98   94      274794     434907     399645
                                194736
-------------------------------------------------------------------------
P12134.D
         R1708647-0  102   97  100   96      251125     413463     371277
                                185608
-------------------------------------------------------------------------
P12135.D
         R1708647-0  100   97  100   95      248957     410057     362572
                                170346
-------------------------------------------------------------------------
P12136.D
         R1708647-0   93   94   98   93      244918     412309     364669
                                168767
-------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

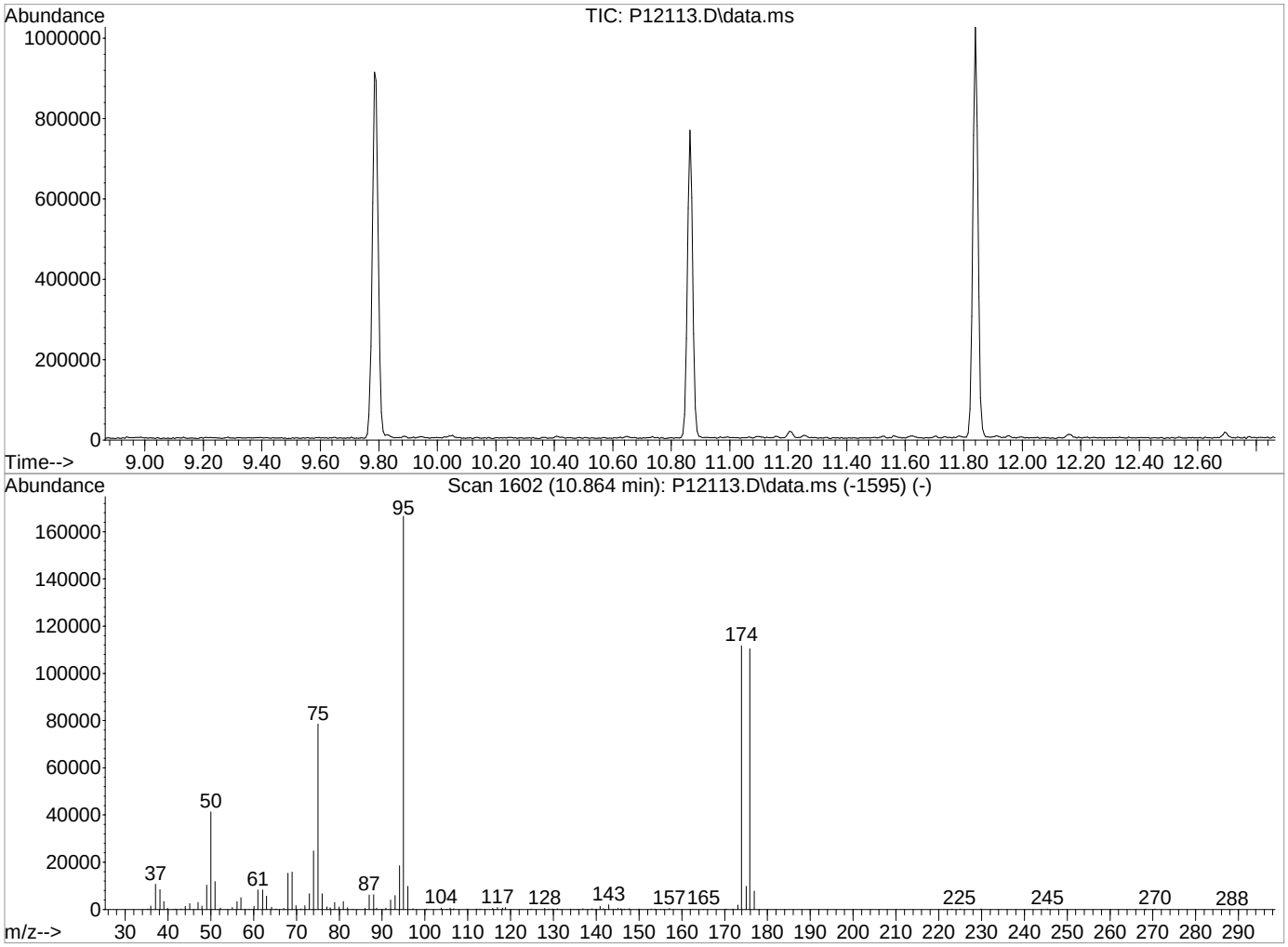
    Created: Mon Sep 18 09:59:16 2017  MSVOA-12
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1st 09/18/17
2nd 09/20/17

Data Path : I:\ACQUDATA\msvoa12\Data\091517\
Data File : P12113.D
Acq On : 15 Sep 2017 8:37 pm
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Fri Sep 01 13:46:44 2017



Spectrum Information: Scan 1602

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	41312	PASS
75	95	30	60	47.2	78568	PASS
95	95	100	100	100.0	166592	PASS
96	95	5	9	5.9	9842	PASS
173	174	0.00	2	1.6	1798	PASS
174	95	50	120	67.0	111640	PASS
175	174	5	9	8.8	9784	PASS
176	174	95	101	98.9	110368	PASS
177	176	5	9	7.0	7710	PASS

GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\091817\P12139.D
Tune Time : 18 Sep 2017 10:09 am

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\091817\P12140.D

292848 478994 430664

216278

File	Sample	Surrogate Recovery %				Internal Standard Responses		
P12140.D								
	CCV	100	90	96	95	292848	478994	430664
				216278				
P12141.D								
	LCS	102	91	96	96	296317	483820	431115
				218987				
P12142.D								
	VBLK	101	95	98	94	298625	479778	440367
				213459				
P12143.D								
	VBLK	100	96	101	95	270041	439756	392565
				190238				
P12144.D								
	R1708647-0	98	95	99	92	297041	488258	432660
				206828				
P12145.D								
	R1708607-0	97	94	98	97	271314	443445	393677
				195428				
P12146.D								
	R1708607-0	95	95	99	96	253508	415969	367789
				184193				
P12147.D								
	R1708525-0	100	99	101	96	250451	422856	373654
				185257				
P12148.D								
	R1708385-0	99	90	96	94	258419	421896	378571
				184289				
P12149.D								
	R1708385-0	99	94	97	95	262600	435076	385356
				185375				
P12150.D								
	BLK	99	93	98	96	283840	465184	405949
				197704				
P12151.D								
	R1708608-0	100	95	98	92	259826	420374	368320
				173289				
P12152.D								
	R1708608-0	98	90	98	97	258206	425438	378518
				188724				
P12153.D								

1st 09/19/17
2nd 09/19/17

	R1708608-0	92	89	96	92	257108	428949	383824
				187912				
P12154.D								
	R1708608-0	101	99	99	99	263978	432349	382609
				190403				
P12155.D								
	R1708608-0	98	95	96	94	263219	432845	387187
				184877				
P12156.D								
	R1708608-0	99	88	97	92	257062	423169	377289
				184297				
P12157.D								
	R1708608-0	92	89	95	92	274656	456141	405790
				202398				
P12158.D								
	R1708608-0	98	92	99	92	268742	431371	385803
				191496				
P12159.D								
	R1708608-0	93	92	98	91	250911	406398	358671
				177552				
P12160.D								
	R1708608-0	98	95	96	92	274499	458819	409967
				197663				
P12161.D								
	R1708608-0	97	96	99	93	255717	421152	377942
				191061				
P12162.D								
	R1708608-0	96	95	97	93	259885	434353	383352
				188064				
P12163.D								
	R1708608-0	98	95	99	94	266748	446823	399379
				191002				
P12164.D								
	R1708608-0	94	95	96	91	259835	438569	384336
				187556				
P12165.D								
	R1708608-0	98	90	102	101	257752	420220	391678
				195688				
P12166.D								
	R1708608-0	96	93	96	93	257672	437205	387211
				190601				
P12167.D								
	CLOSING CC	105	96	99	95	253334	429169	379032
				187973				

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

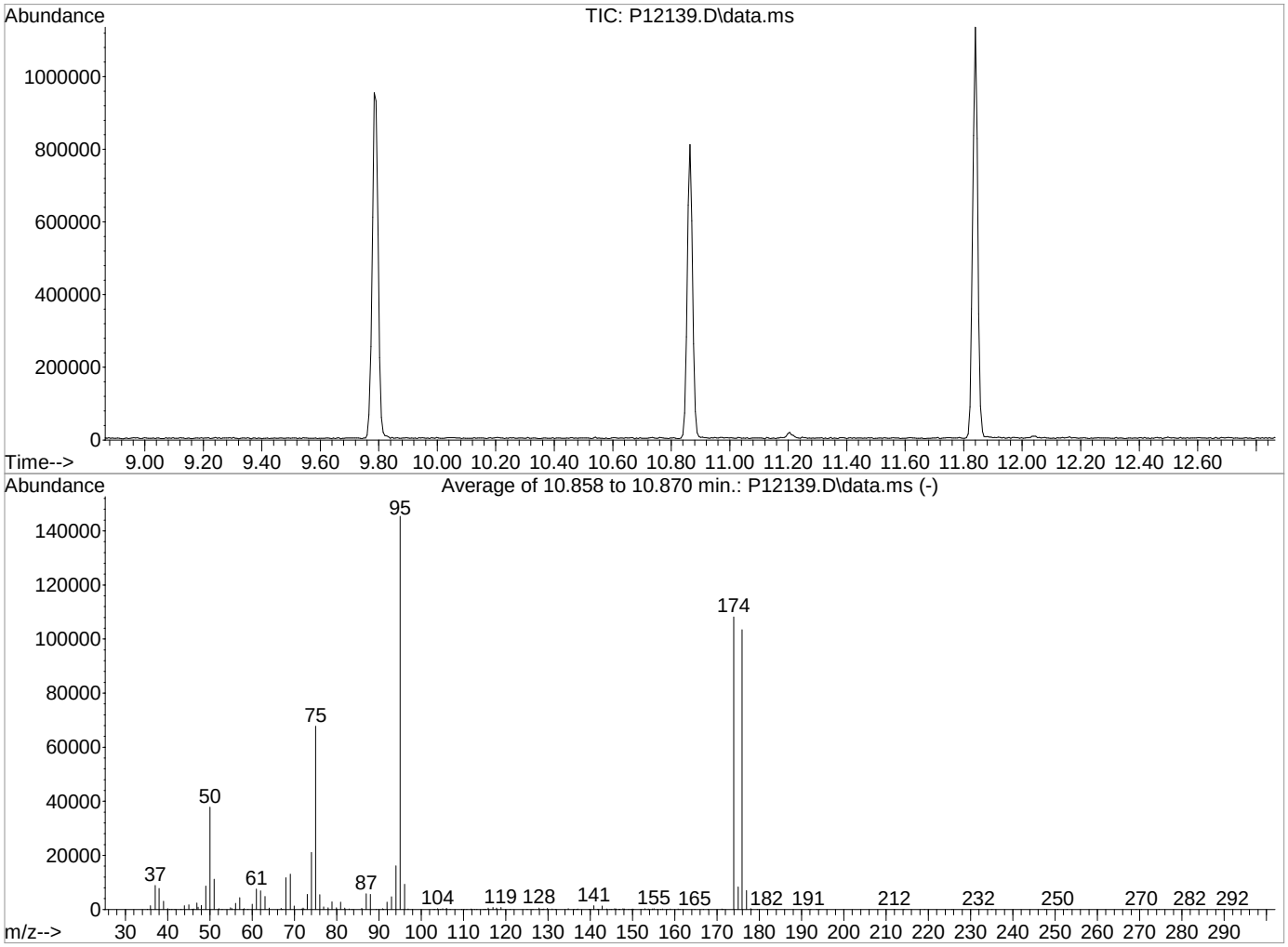
Created: Tue Sep 19 09:32:25 2017 MSVOA-12

1st 09/18/17
2nd 09/19/17

Data Path : I:\ACQUDATA\msvoa12\Data\091817\
Data File : P12139.D
Acq On : 18 Sep 2017 10:09 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Fri Sep 01 13:46:44 2017



AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1594

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	37811	PASS
75	95	30	60	46.6	67811	PASS
95	95	100	100	100.0	145427	PASS
96	95	5	9	6.4	9293	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	74.4	108200	PASS
175	174	5	9	7.6	8268	PASS
176	174	95	101	95.6	103488	PASS
177	176	5	9	6.8	7048	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 13:50:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	237523	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	398549	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	357226	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	175321	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	112713	50.71	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.42%				
48) surr1,1,2-dichloroetha...	5.773	65	175323	49.49	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.98%				
65) SURR3,Toluene-d8	8.297	98	514733	50.12	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.24%				
70) SURR2,BFB	10.864	95	201072	49.80	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	148785	45.55	ppb		95
3) Chloromethane	1.311	50	280580	45.04	ppb		94
4) Vinyl Chloride	1.384	62	216167	53.21	ppb		94
5) Bromomethane	1.610	94	77739	47.06	ppb		90
6) Chloroethane	1.683	64	101975	47.51	ppb		100
7) Freon 21	1.835	67	287414	51.78	ppb		98
8) Trichlorofluoromethane	1.884	101	187611	45.01	ppb		97
9) Diethyl Ether	2.122	59	182257	49.44	ppb		81
10) Freon 123a	2.122	67	184978	55.87	ppb		94
11) Freon 123	2.176	83	196777	53.47	ppb		99
12) Acrolein	2.219	56	110984	104.24	ppb		99
13) 1,1-Diclethene	2.311	96	111955	43.21	ppb	#	72
14) Freon 113	2.311	101	100389	43.62	ppb		93
15) Acetone	2.353	43	144356	49.88	ppb		92
16) 2-Propanol	2.481	45	603922	1005.25	ppb		95
17) Iodomethane	2.439	142	116576	43.60	ppb		87
18) Carbon Disulfide	2.500	76	351448	51.48	ppb		97
19) Acetonitrile	2.597	40	131526	238.46	ppb		95
20) Allyl Chloride	2.640	76	67297m	52.90	ppb		
21) Methyl Acetate	2.658	43	273531	35.58	ppb		97
22) Methylene Chloride	2.756	84	139374	49.64	ppb		92
23) TBA	2.884	59	832486	996.54	ppb		88
24) Acrylonitrile	3.006	53	680358	257.93	ppb		100
25) Methyl-t-Butyl Ether	3.054	73	495022	49.11	ppb		90
26) trans-1,2-Dichloroethene	3.048	96	122923	46.05	ppb	#	82
28) 1,1-Diclethane	3.542	63	291560	48.72	ppb		96
29) Vinyl Acetate	3.634	86	28664	46.55	ppb	#	86
30) DIPE	3.670	45	797055	51.18	ppb		93
31) 2-Chloro-1,3-Butadiene	3.670	53	345591	54.91	ppb		87
32) ETBE	4.194	59	656069	52.00	ppb		90
33) 2,2-Dichloropropane	4.377	77	178740	43.09	ppb		92
34) cis-1,2-Dichloroethene	4.383	96	141772	45.32	ppb	#	74
35) 2-Butanone	4.420	43	192343	51.80	ppb		91
36) Propionitrile	4.499	54	279638	251.06	ppb		90
37) Bromochloromethane	4.767	130	86581	46.06	ppb		90
38) Methacrylonitrile	4.774	67	91893	50.42	ppb	#	83
39) Tetrahydrofuran	4.859	42	121021	52.63	ppb		90
40) Chloroform	4.956	83	232368	48.45	ppb		92
41) 1,1,1-Trichloroethane	5.249	97	203806	50.34	ppb		88

1st BA 09/01/17
2nd MR 09/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 13:50:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.090	73	488955	52.03	ppb		94
44)	Cyclohexane	5.341	41	204864	48.67	ppb		90
46)	Carbontetrachloride	5.529	117	157260	47.23	ppb		98
47)	1,1-Dichloropropene	5.536	75	175270	44.74	ppb		89
49)	Benzene	5.859	78	541389	45.62	ppb		87
50)	1,2-Dichloroethane	5.889	62	248211	48.41	ppb		97
51)	Iso-Butyl Alcohol	5.865	43	455424	958.01	ppb		99
52)	n-Heptane	6.346	43	259023	41.91	ppb		87
53)	1-Butanol	6.840	56	2336	9.17	ppb		88
54)	Trichloroethene	6.804	130	145769	48.06	ppb		97
55)	Methylcyclohexane	7.048	55	284515	51.15	ppb		79
56)	1,2-Diclpropane	7.084	63	174302	46.31	ppb		98
57)	Dibromomethane	7.224	93	90066	48.74	ppb		88
58)	1,4-Dioxane	7.285	88	70740	1001.91	ppb	#	76
59)	Methyl Methacrylate	7.310	69	142425	49.25	ppb		95
60)	Bromodichloromethane	7.456	83	175390	52.86	ppb		96
61)	2-Nitropropane	7.736	41	145192	100.04	ppb		97
62)	2-Chloroethylvinyl Ether	7.858	63	123605	56.72	ppb		90
63)	cis-1,3-Dichloropropene	7.999	75	227818	48.82	ppb		97
64)	4-Methyl-2-pentanone	8.200	43	342676	50.90	ppb		90
66)	Toluene	8.370	91	596767	46.84	ppb		98
67)	trans-1,3-Dichloropropene	8.639	75	210207	49.40	ppb		97
68)	Ethyl Methacrylate	8.779	69	260800	52.50	ppb		83
69)	1,1,2-Trichloroethane	8.828	97	141228	49.82	ppb		97
72)	Tetrachloroethene	8.962	164	97045	44.16	ppb		93
73)	2-Hexanone	9.114	43	263292	51.23	ppb		87
74)	1,3-Dichloropropane	8.992	76	252136	46.36	ppb		93
75)	Dibromochloromethane	9.224	129	132222	51.36	ppb		97
76)	N-Butyl Acetate	9.273	43	513745	52.79	ppb		90
77)	1,2-Dibromoethane	9.321	107	144115	51.51	ppb		96
78)	Chlorobenzene	9.815	112	372342	46.94	ppb		98
79)	3-CBTF	9.834	180	185104	48.97	ppb		95
80)	4-CBTF	9.888	180	160878	47.84	ppb		98
81)	1,1,1,2-Tetrachloroethane	9.901	131	137382	52.24	ppb		97
82)	Ethylbenzene	9.937	106	213393	49.41	ppb	#	89
83)	(m+p)Xylene	10.047	106	501498	94.48	ppb		97
84)	o-Xylene	10.407	106	249470	47.39	ppb		96
85)	Styrene	10.419	104	430075	50.72	ppb		97
87)	Bromoform	10.571	173	89069	60.64	ppb		94
88)	2-CBTF	10.650	180	181884	51.47	ppb		96
89)	Isopropylbenzene	10.742	105	639264	49.94	ppb		97
90)	Cyclohexanone	10.803	55	1191862	1017.05	ppb		81
91)	trans-1,4-Dichloro-2-B...	11.047	53	84336	54.68	ppb		97
92)	1,1,2,2-Tetrachloroethane	10.998	83	195424	50.72	ppb		92
93)	Bromobenzene	10.986	156	152855	48.44	ppb		93
94)	1,2,3-Trichloropropane	11.028	110	70092	49.07	ppb		94
95)	n-Propylbenzene	11.095	91	751876	49.91	ppb		96
96)	2-Chlorotoluene	11.163	91	456470	47.89	ppb		96
97)	3-Chlorotoluene	11.211	91	509264	52.70	ppb		96
98)	4-Chlorotoluene	11.254	91	524166	48.32	ppb		97
99)	1,3,5-Trimethylbenzene	11.248	105	538419	50.83	ppb		95
100)	tert-Butylbenzene	11.522	119	466565	48.44	ppb		100
101)	1,2,4-Trimethylbenzene	11.565	105	558609	50.26	ppb		95
102)	3,4-DCBTF	11.626	214	131334	47.91	ppb	#	91
103)	sec-Butylbenzene	11.705	105	686142	48.81	ppb		96
104)	p-Isopropyltoluene	11.827	119	571074	50.31	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 13:50:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	286980	47.02	ppb		98
106) 1,4-Dclbenz	11.864	146	291900	47.46	ppb		95
107) 2,4-DCBTF	11.912	214	124607	51.84	ppb		98
108) 2,5-DCBTF	11.955	214	137037	50.42	ppb		95
109) n-Butylbenzene	12.162	91	542049	51.23	ppb		95
110) 1,2-Dclbenz	12.162	146	290290	48.99	ppb		98
111) 1,2-Dibromo-3-chloropr...	12.784	157	50058	50.71	ppb		91
112) Trielution Dichlorotol...	12.906	125	916108	157.82	ppb	#	92
113) 1,3,5 Trichlorobenzene	12.961	180	227284	50.87	ppb		99
114) Coelution Dichlorotoluene	13.235	125	687367	106.78	ppb		97
115) 1,2,4-Tcbenzene	13.443	180	228036	48.41	ppb		97
116) Hexachlorobt	13.583	225	95749	48.86	ppb		97
117) Naphthalen	13.632	128	797776	53.17	ppb		98
118) 1,2,3-Tclbenzene	13.821	180	232257	48.55	ppb		95
119) 2,4,5-Trichlorotolene	14.406	159	207687	54.41	ppb		94
120) 2,3,6-Trichlorotoluene	14.491	159	231939	65.14	ppb		93

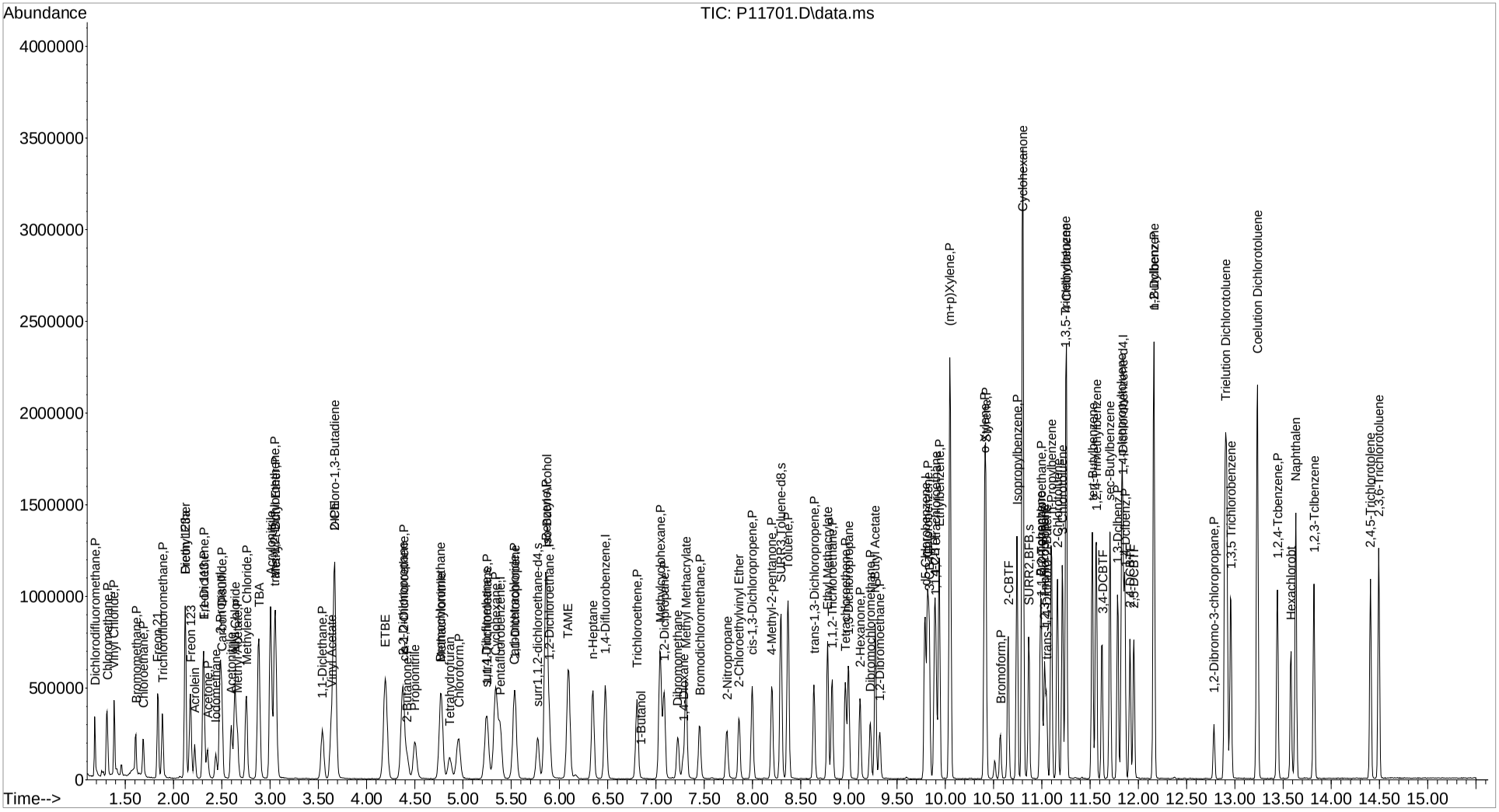
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

1st BA 09/01/17
2nd 09/05/17

Quant Time: Sep 01 13:50:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration

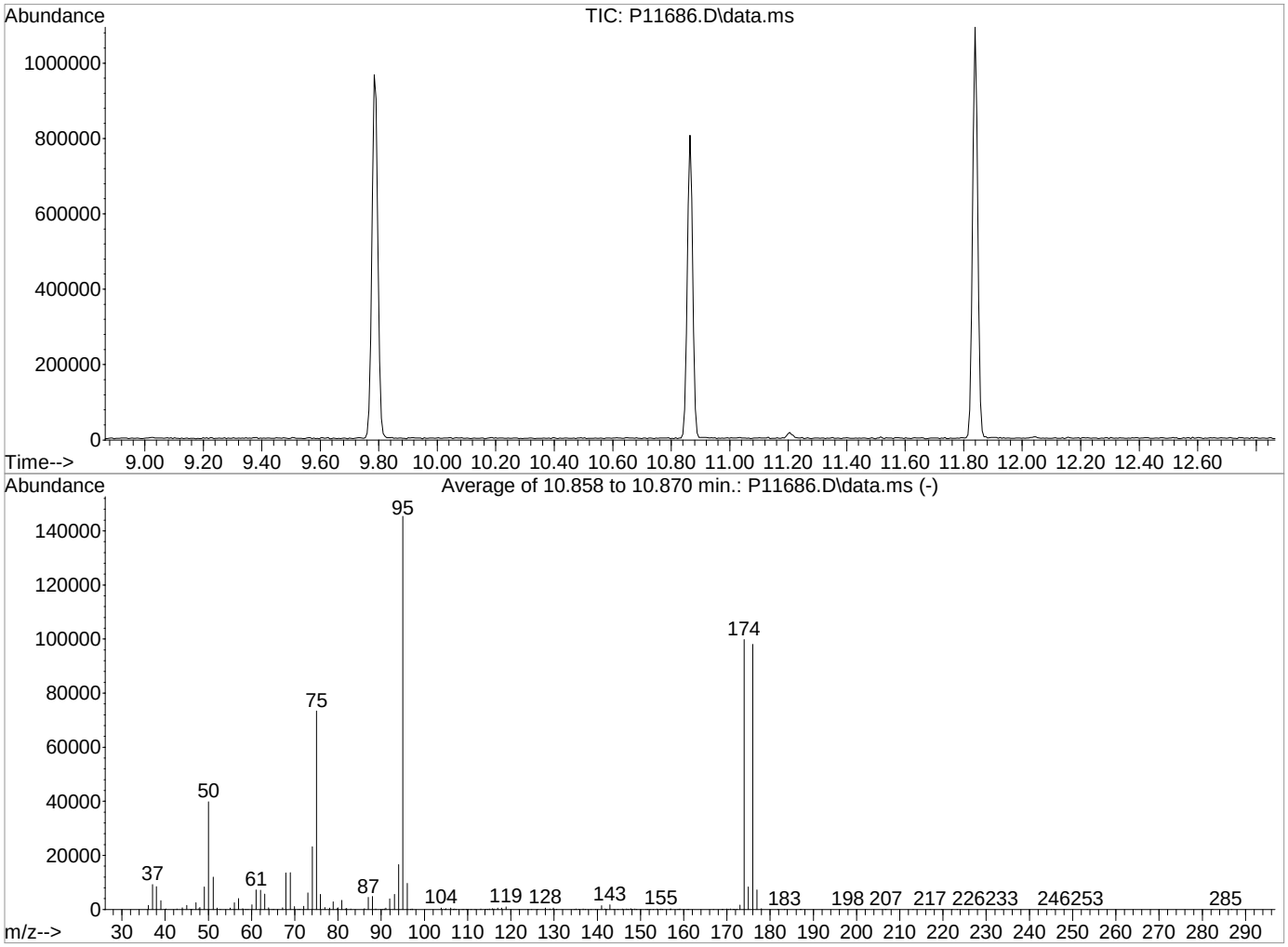


1st BA 09/01/17
2nd 09/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11686.D
Acq On : 31 Aug 2017 2:07 pm
Operator : B.ALLGEIER
Sample : tune Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Fri Sep 01 13:46:44 2017



AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1594

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.4	39845	PASS
75	95	30	60	50.4	73379	PASS
95	95	100	100	100.0	145451	PASS
96	95	5	9	6.6	9664	PASS
173	174	0.00	2	1.6	1570	PASS
174	95	50	120	68.6	99776	PASS
175	174	5	9	8.3	8286	PASS
176	174	95	101	98.2	98019	PASS
177	176	5	9	7.3	7181	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11689.D
Acq On : 31 Aug 2017 4:36 pm
Operator : B.ALLGEIER
Sample : inst blk Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:27:41 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 10:26:08 2017
Response via : Initial Calibration

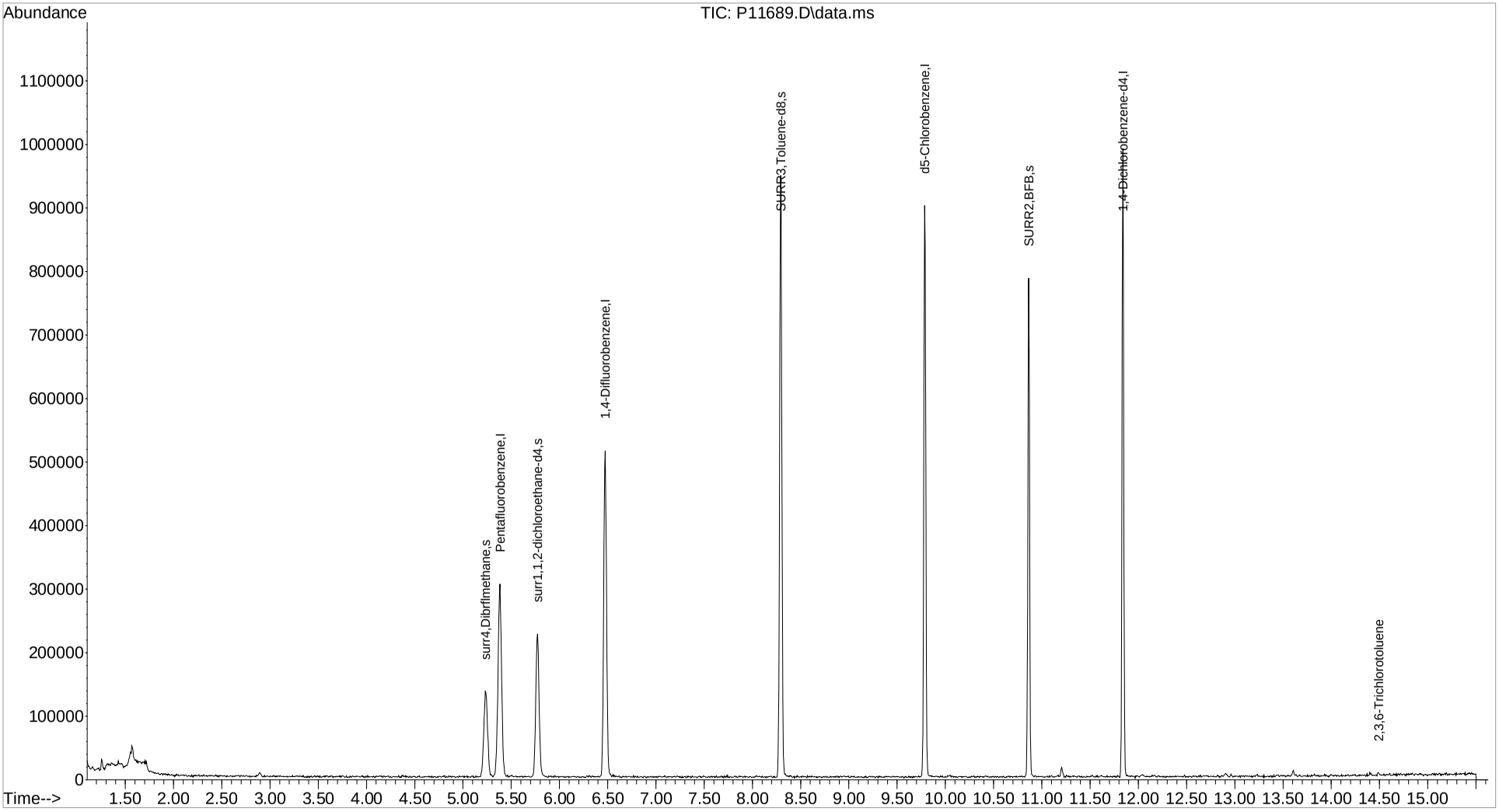
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.383	168	248513	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.474	114	405841	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	367212	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	176247	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	113596	50.19	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.38%			
48) surr1,1,2-dichloroetha...	5.773	65	182205	50.51	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.02%			
65) SURR3,Toluene-d8	8.291	98	536690	51.32	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.64%			
70) SURR2,BFB	10.864	95	204939	49.84	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.68%			
Target Compounds						Qvalue
5) Bromomethane	1.597	94	628	Below Cal	#	5
6) Chloroethane	1.677	64	527	Below Cal		94
120) 2,3,6-Trichlorotoluene	14.491	159	869	0.24	ppb #	84

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11689.D
Acq On : 31 Aug 2017 4:36 pm
Operator : B.ALLGEIER
Sample : inst blk Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:27:41 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 10:26:08 2017
Response via : Initial Calibration



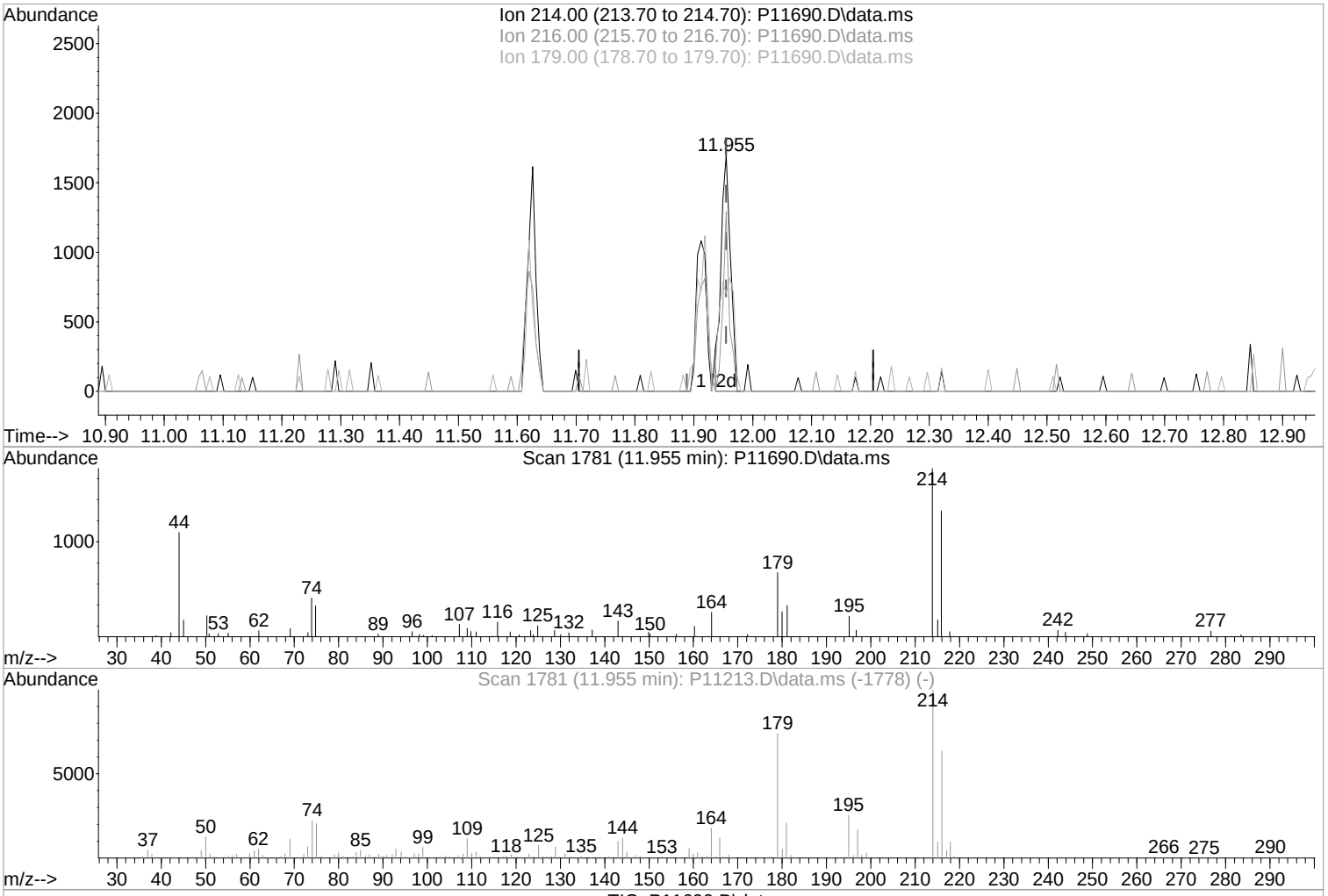
1st BA 09/01/17
2nd 09/05/17

1st BA 09/01/17
2nd 09/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(108) 2,5-DCBTF

11.955min (+0.000) 0.75 ppb m

response 1884

Ion	Exp%	Act%
214.00	100	100
216.00	62.50	76.13#
179.00	74.00	41.60#
0.00	0.00	0.00

Manual Integration:

After

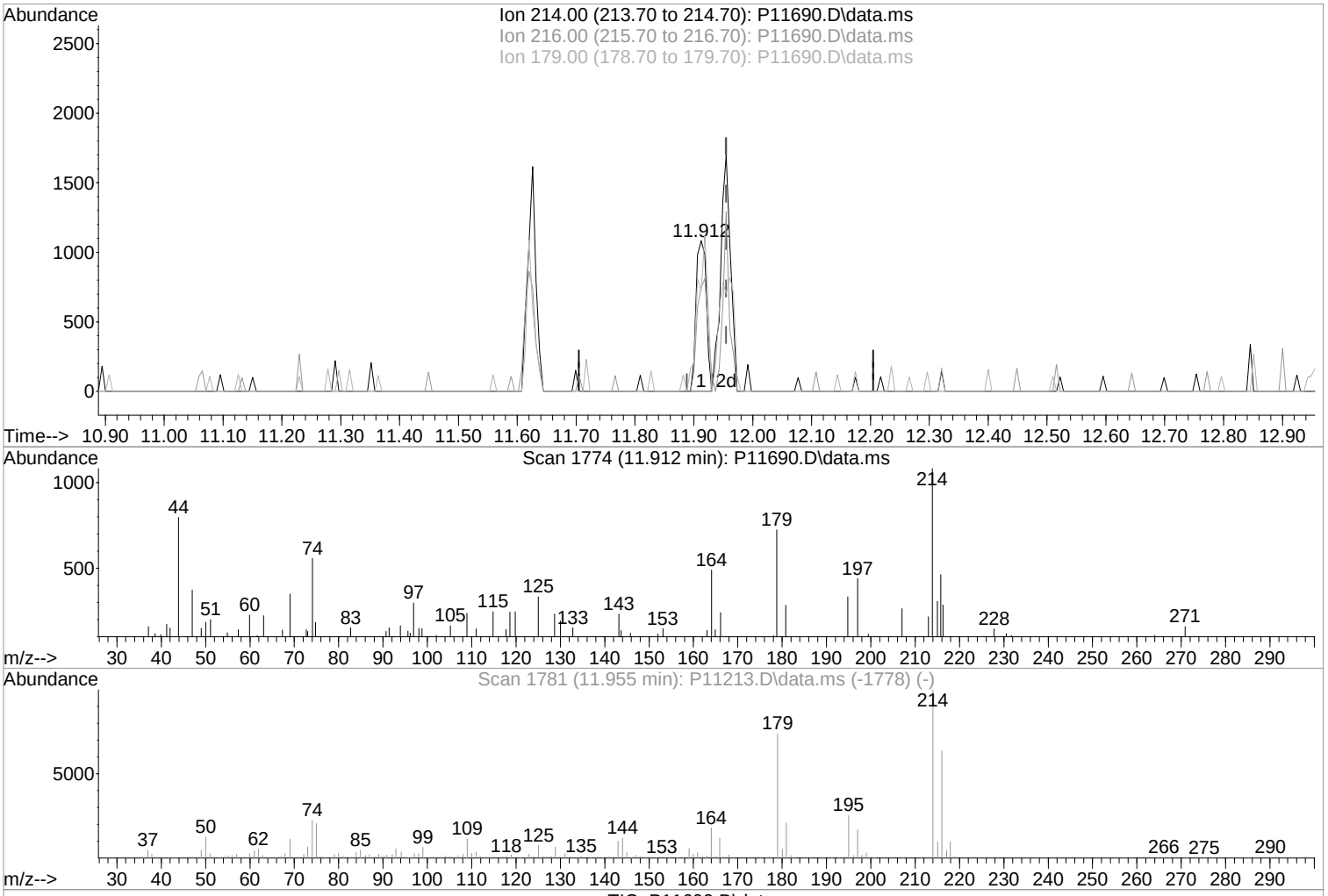
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(108) 2,5-DCBTF

11.912min (-0.042) 0.51 ppb

response 1297

Ion	Exp%	Act%
214.00	100	100
216.00	62.50	68.98
179.00	74.00	66.85
0.00	0.00	0.00

Manual Integration:

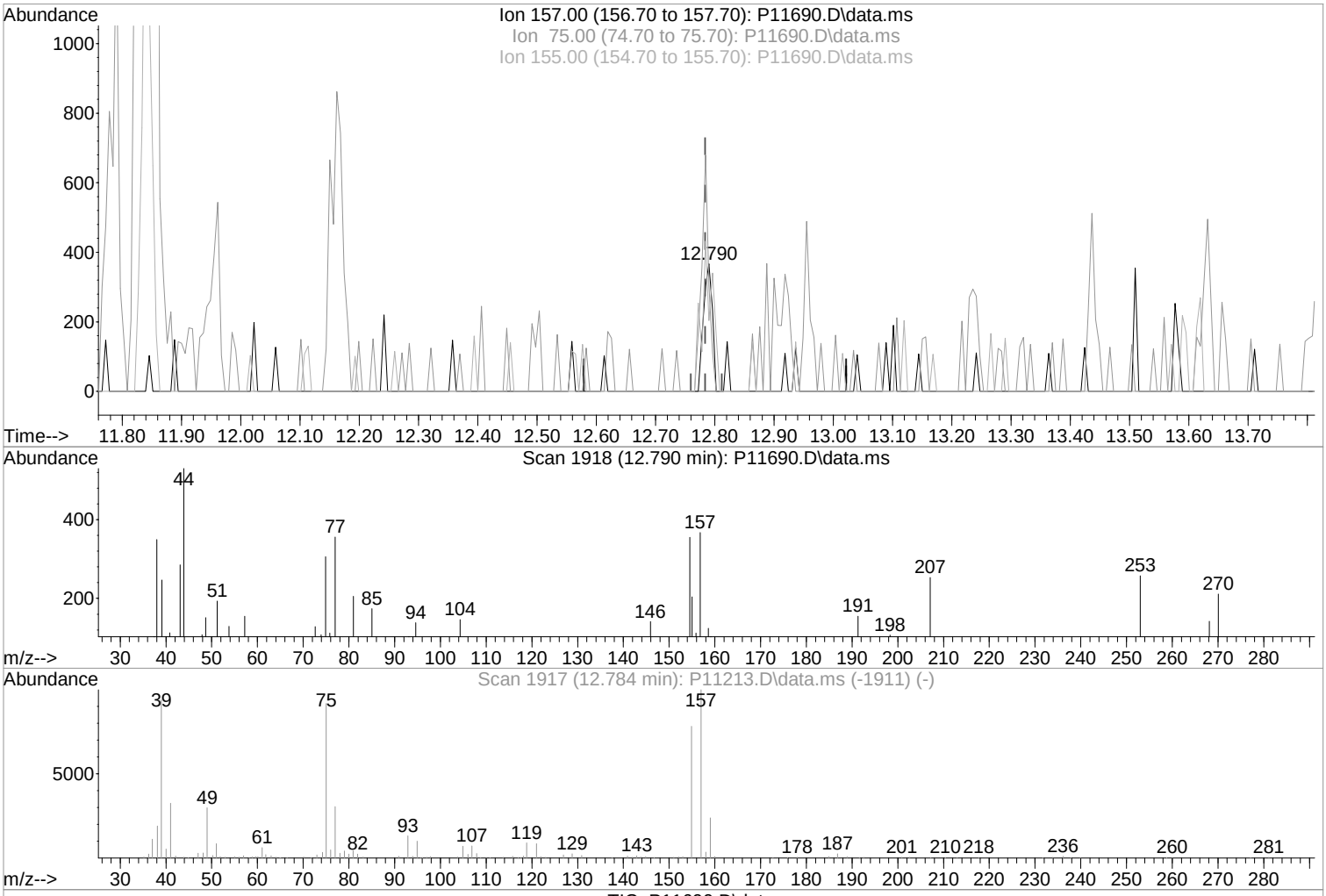
Before

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:20:58 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(111) 1,2-Dibromo-3-chloropropane (P)

12.790min (+0.006) 0.37 ppb m

response 388

Ion	Exp%	Act%
157.00	100	100
75.00	91.70	83.38
155.00	78.30	55.59#
0.00	0.00	0.00

Manual Integration:

After

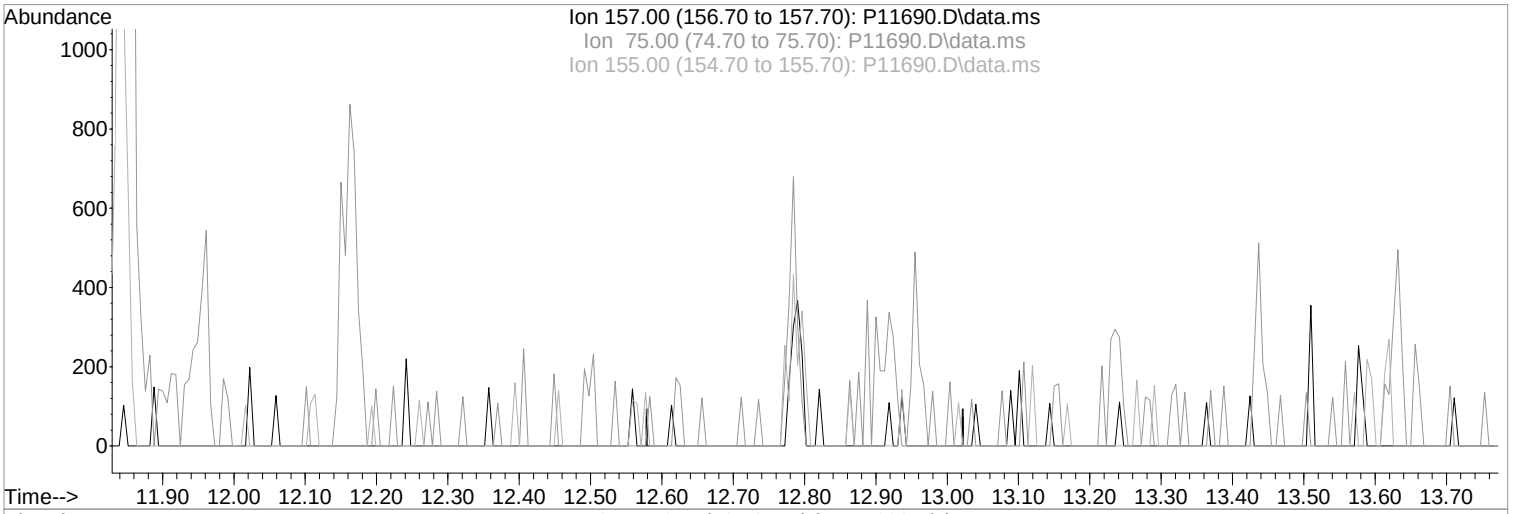
Peak not found.

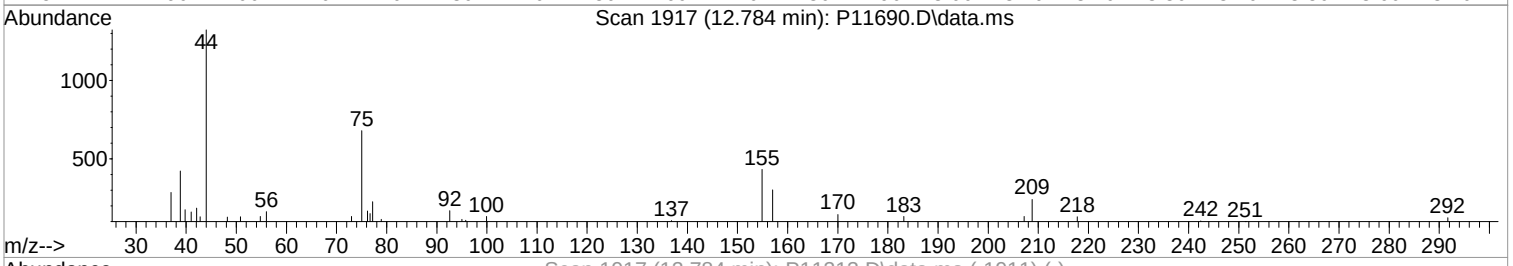
09/01/17

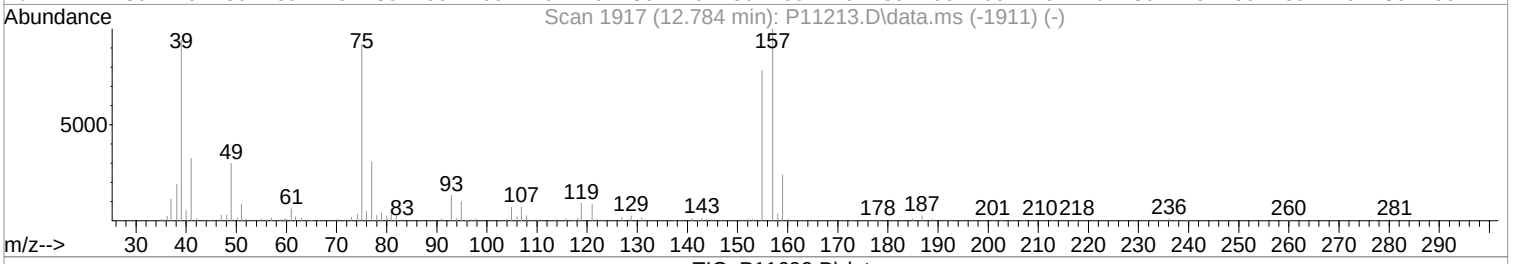
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(111) 1,2-Dibromo-3-chloropropane (P)

12.784min (-12.784) 0.00 ppb

response 0

Ion	Exp%	Act%
157.00	100	0.00
75.00	91.70	0.00#
155.00	78.30	0.00#
0.00	0.00	0.00

Manual Integration:

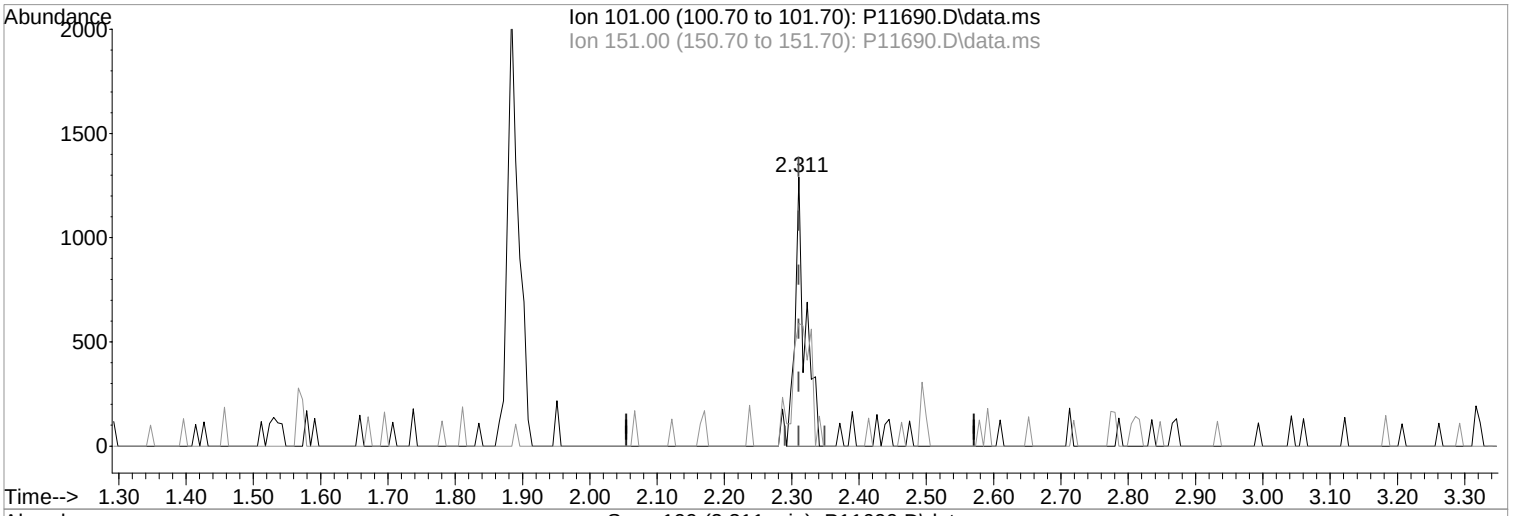
Before

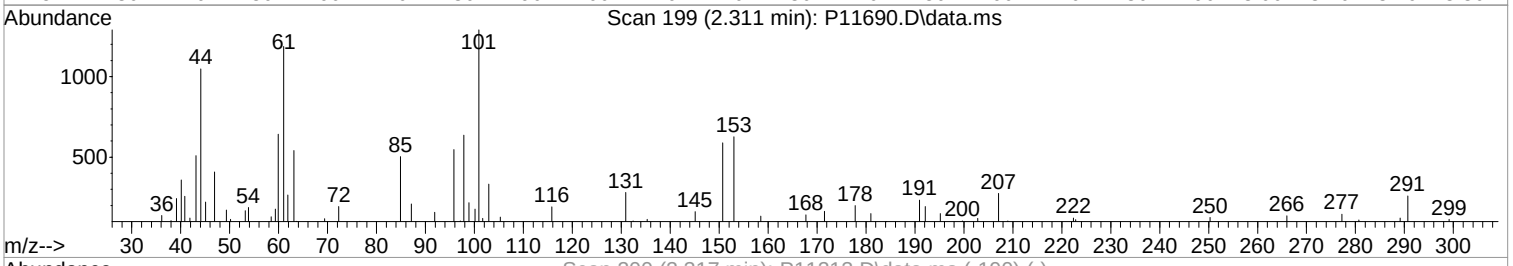
09/01/17

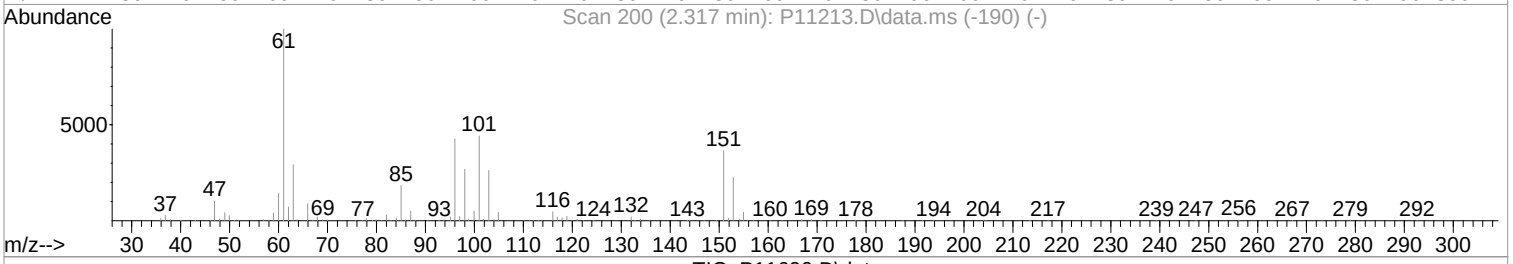
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:20:58 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(14) Freon 113 (P)

2.311min (+0.000) 0.59 ppb m

response 1369

Ion	Exp%	Act%
101.00	100	100
151.00	82.70	45.62#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

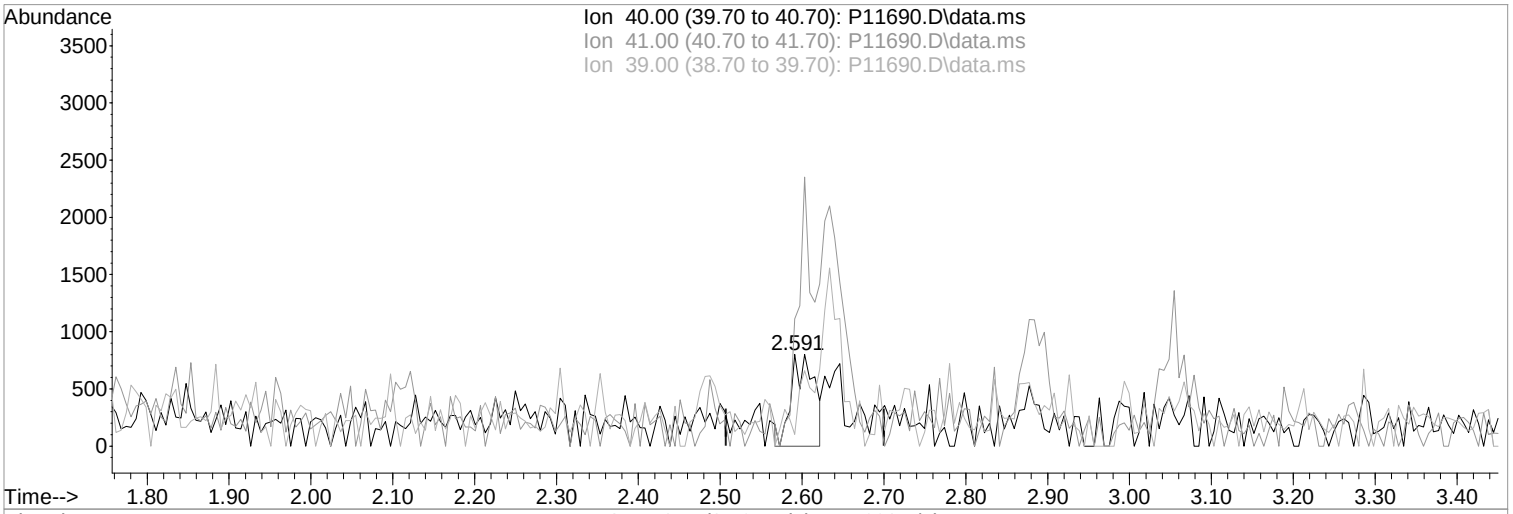
09/01/17

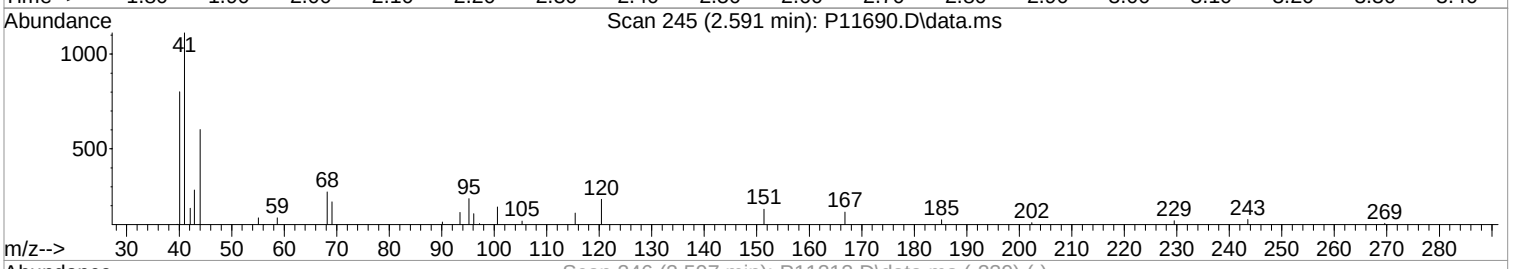
1st BA 09/01/17
2nd 09/05/17

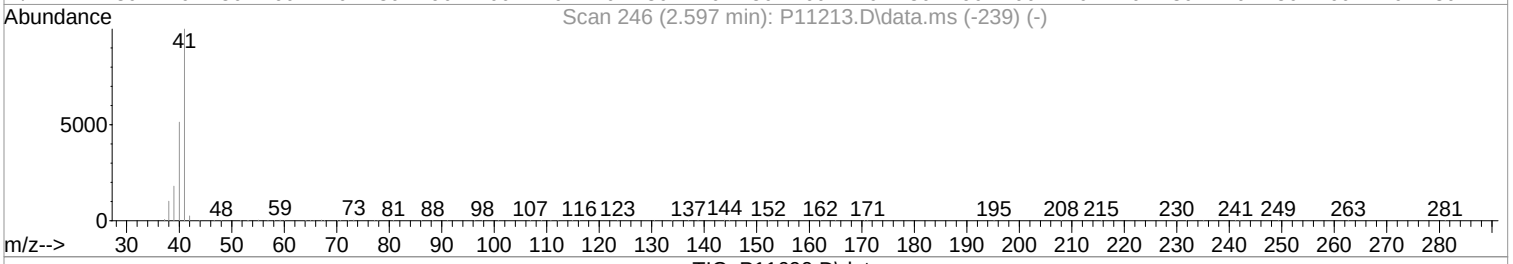
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(19) Acetonitrile

2.591min (-0.006) 2.77 ppb m

response 1534

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	138.95#
39.00	35.40	12.73#
0.00	0.00	0.00

Manual Integration:

After

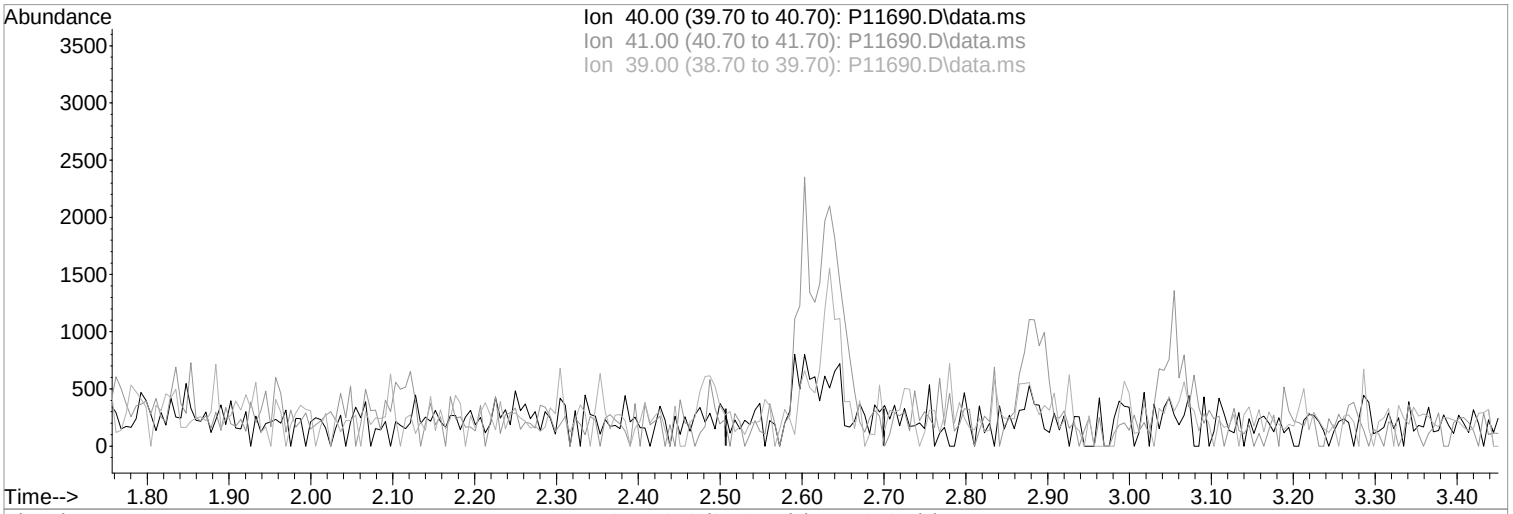
Poor integration.

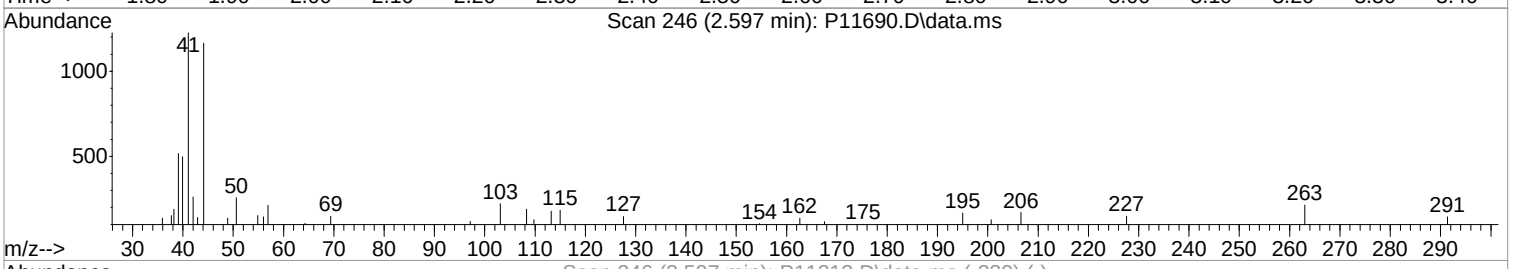
09/01/17

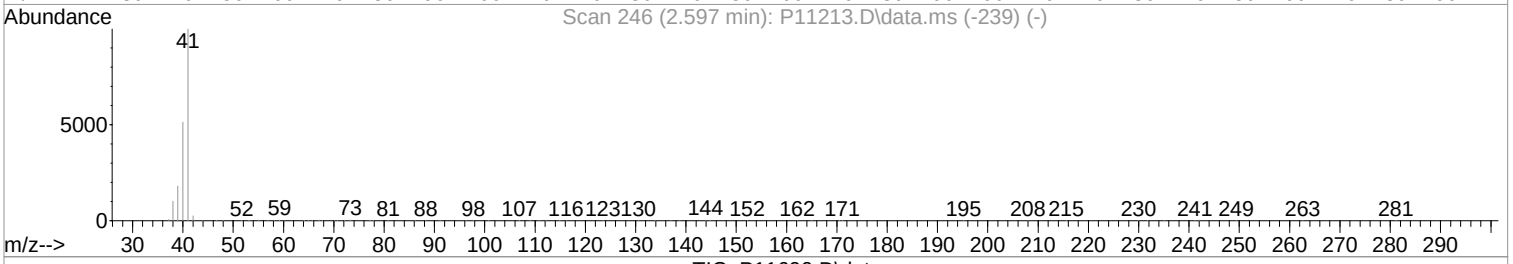
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(19) Acetonitrile

2.597min (-2.597) 0.00 ppb

response 0

Ion	Exp%	Act%
40.00	100	0.00
41.00	195.10	0.00#
39.00	35.40	0.00#
0.00	0.00	0.00

Manual Integration:

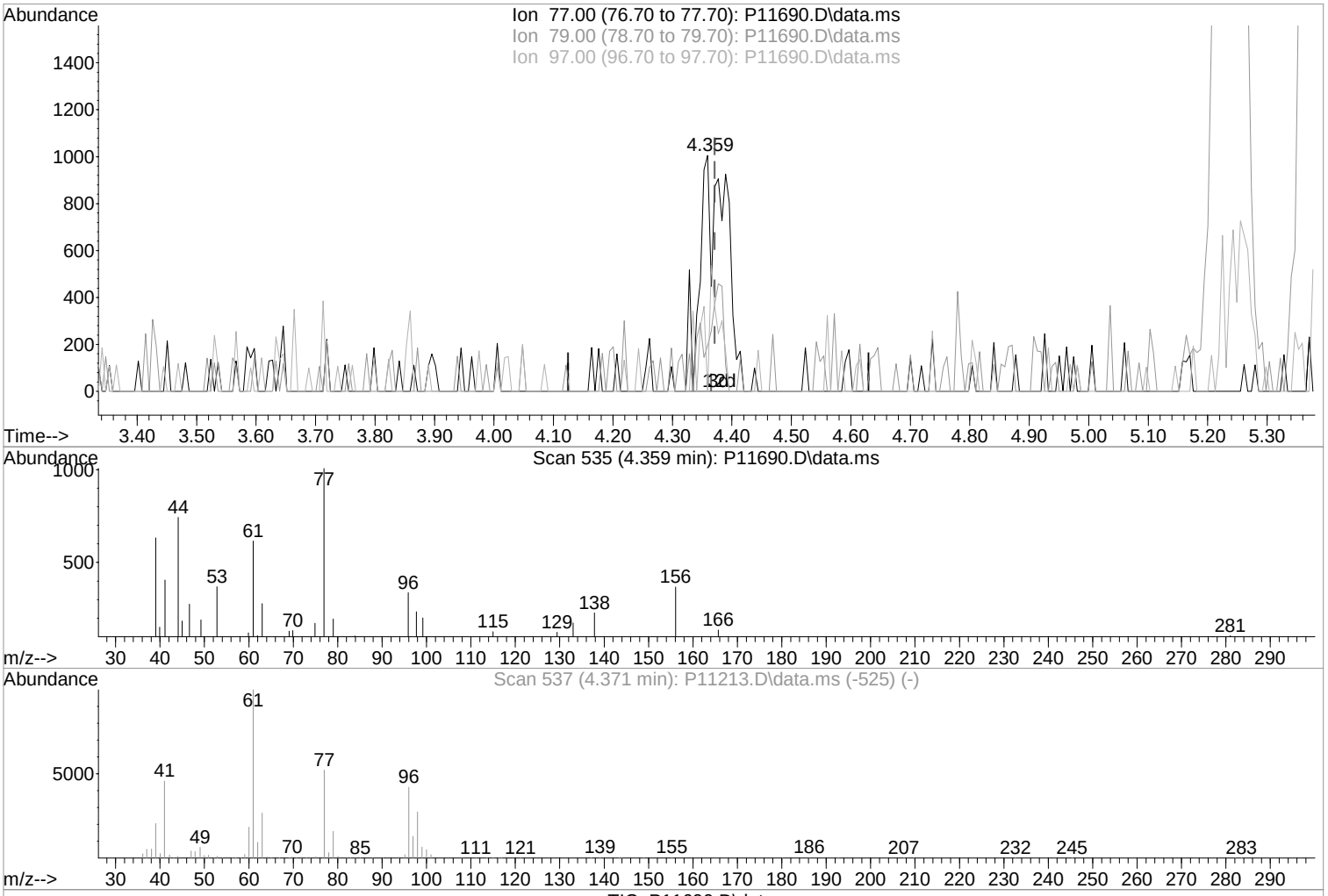
Before

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(33) 2,2-Dichloropropane

4.359min (-0.012) 0.79 ppb m

response 3135

Ion	Exp%	Act%
77.00	100	100
79.00	30.10	19.38
97.00	24.60	23.36
0.00	0.00	0.00

Manual Integration:

After

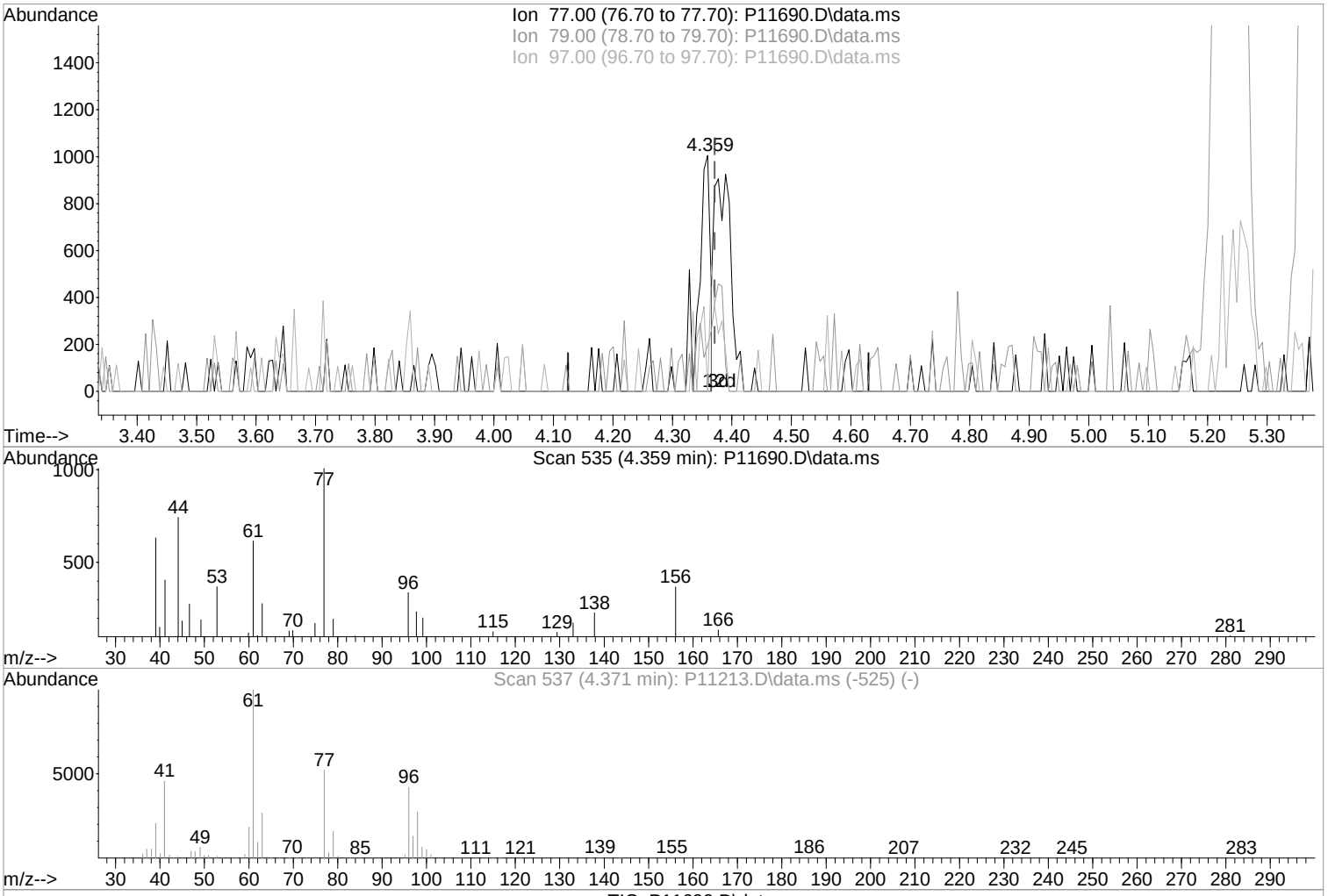
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(33) 2,2-Dichloropropane

4.359min (-0.012) 0.30 ppb

response 1168

Ion	Exp%	Act%
77.00	100	100
79.00	30.10	19.38
97.00	24.60	23.36
0.00	0.00	0.00

Manual Integration:

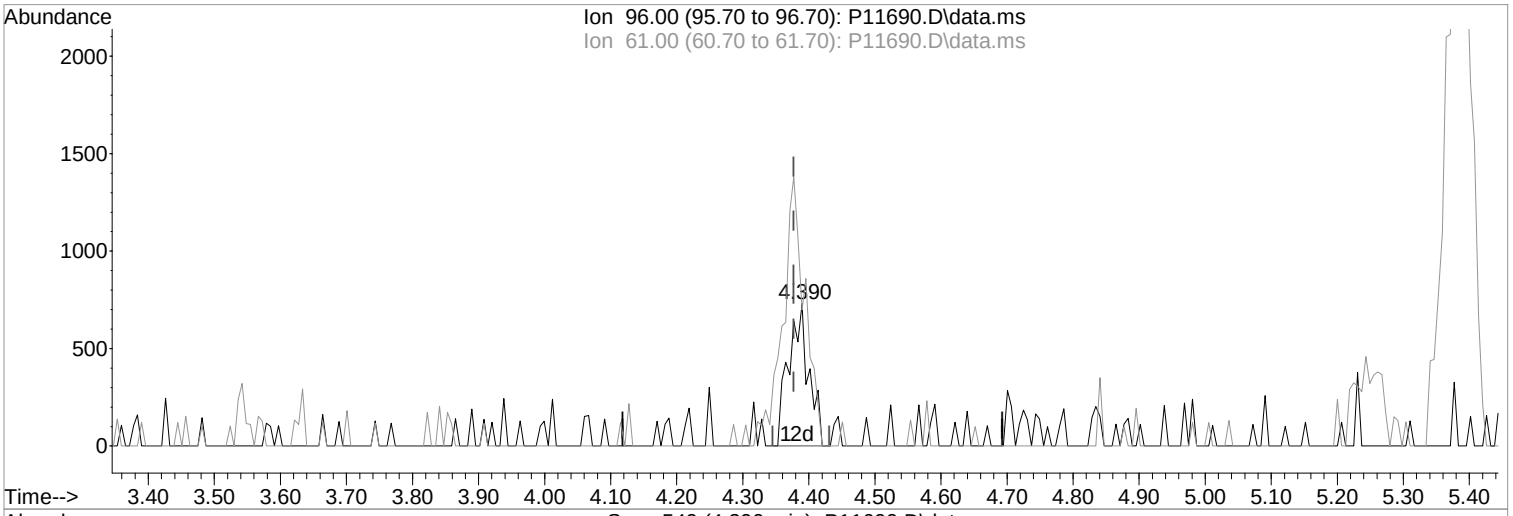
Before

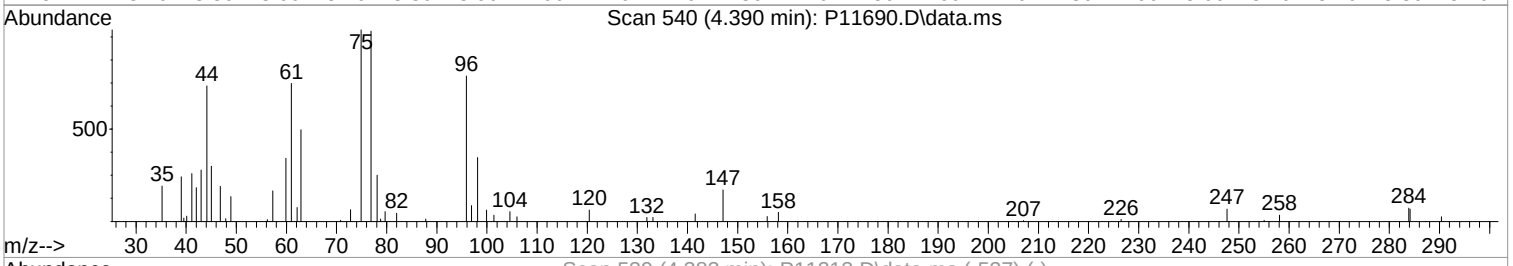
09/01/17

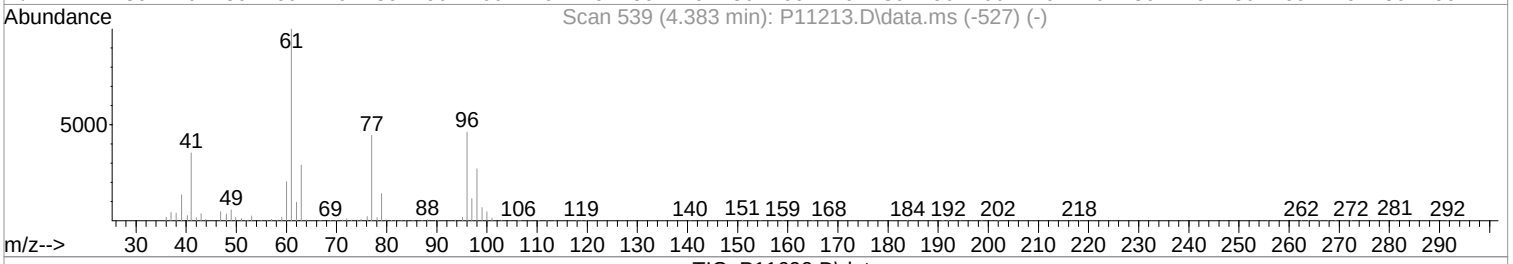
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:20:58 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.390min (+0.012) 0.50 ppb m

response 1545

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	95.49#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

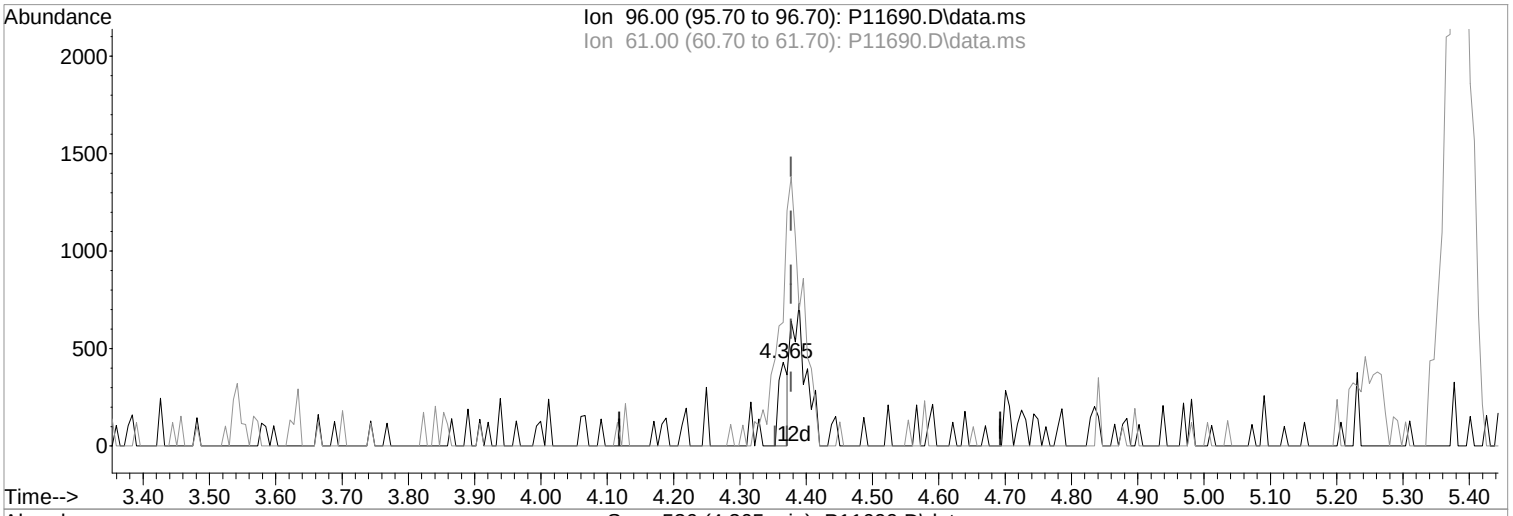
Poor integration.

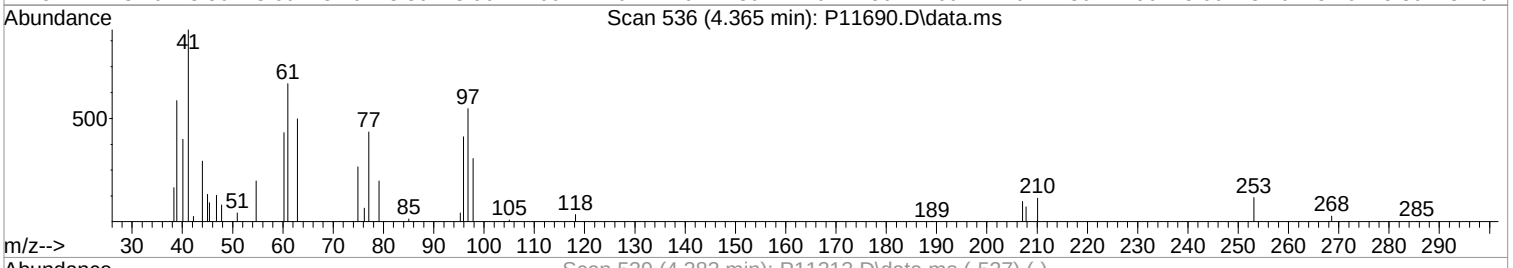
09/01/17

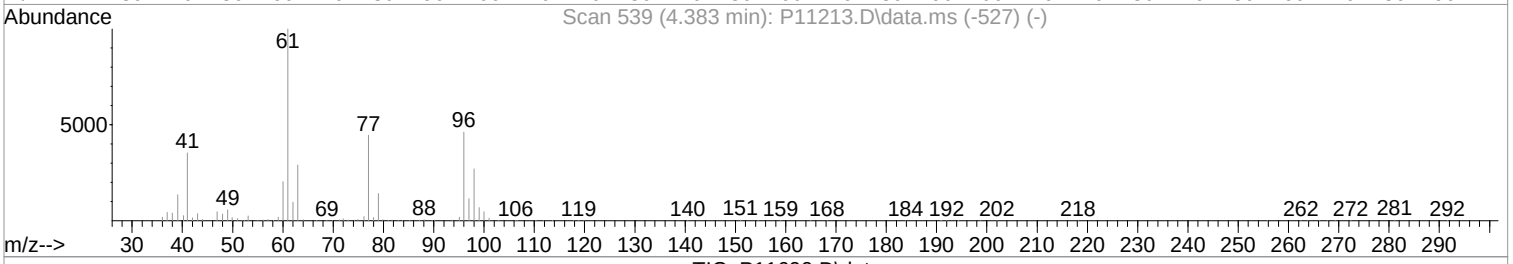
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.365min (-0.012) 0.13 ppb

response 414

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	147.79#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

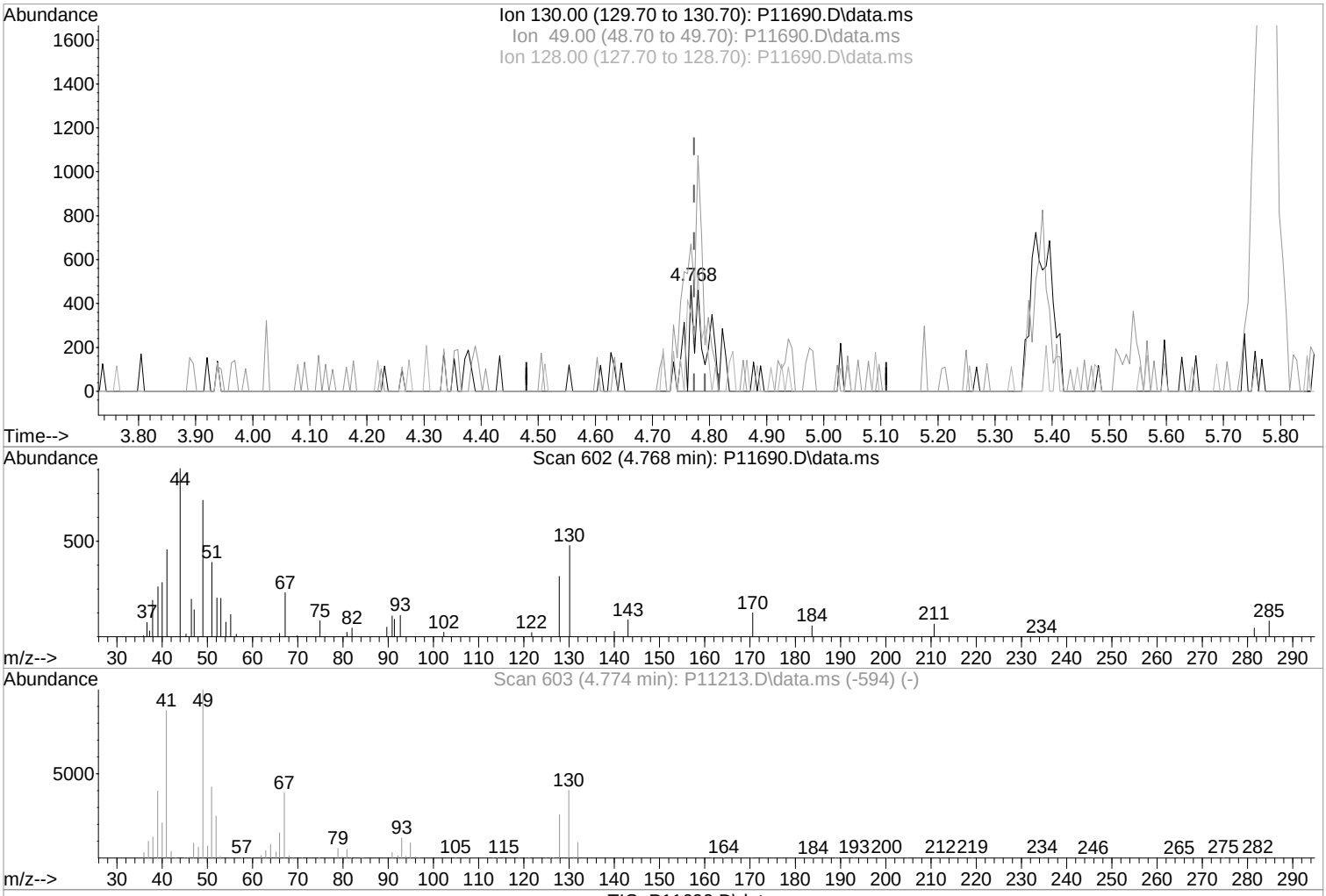
Before

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(37) Bromochloromethane

4.768min (-0.006) 0.52 ppb m

response 962

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	139.21#
128.00	66.10	73.03
0.00	0.00	0.00

Manual Integration:

After

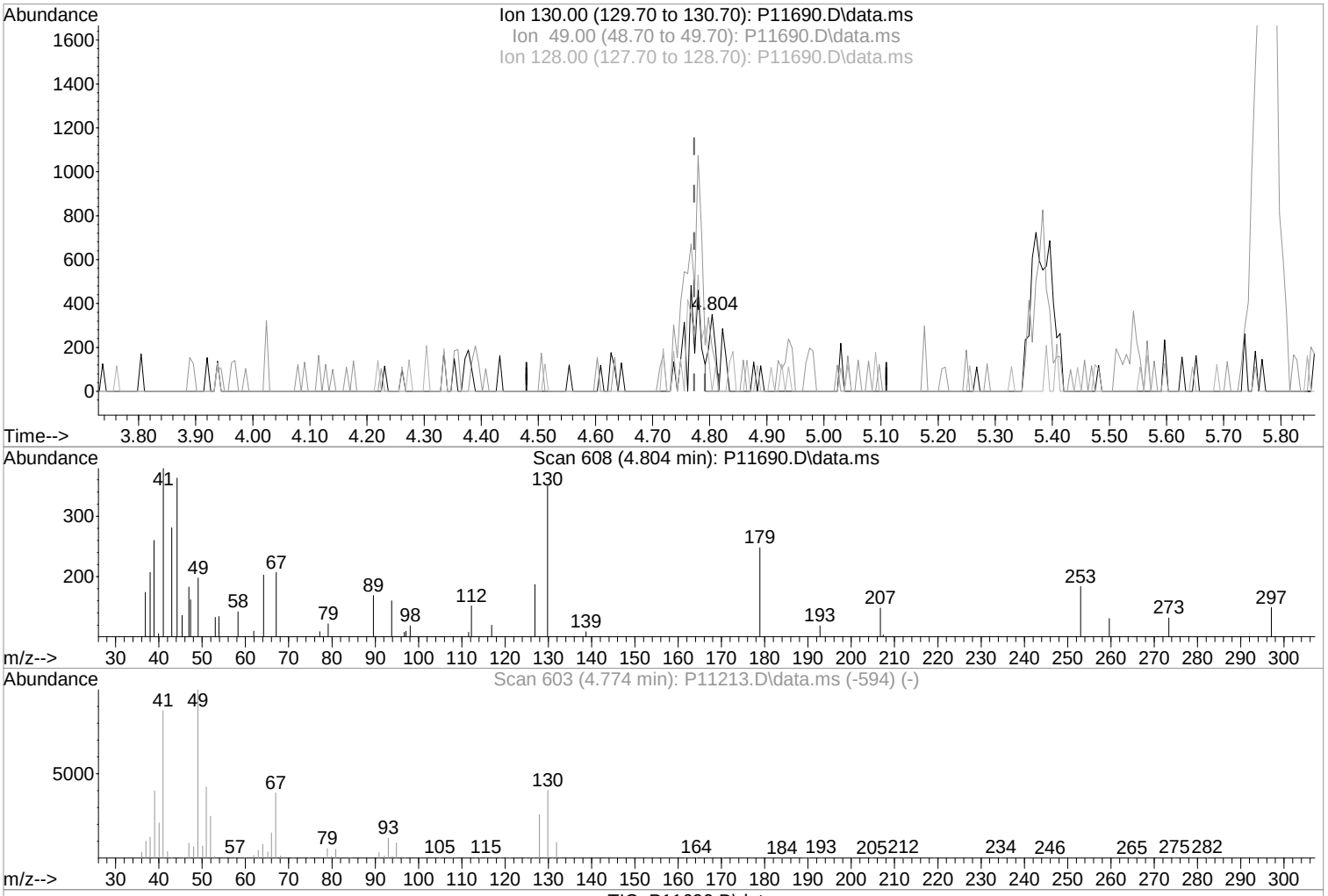
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(37) Bromochloromethane

4.804min (+0.031) 0.15 ppb

response 271

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	56.57#
128.00	66.10	0.00#
0.00	0.00	0.00

Manual Integration:

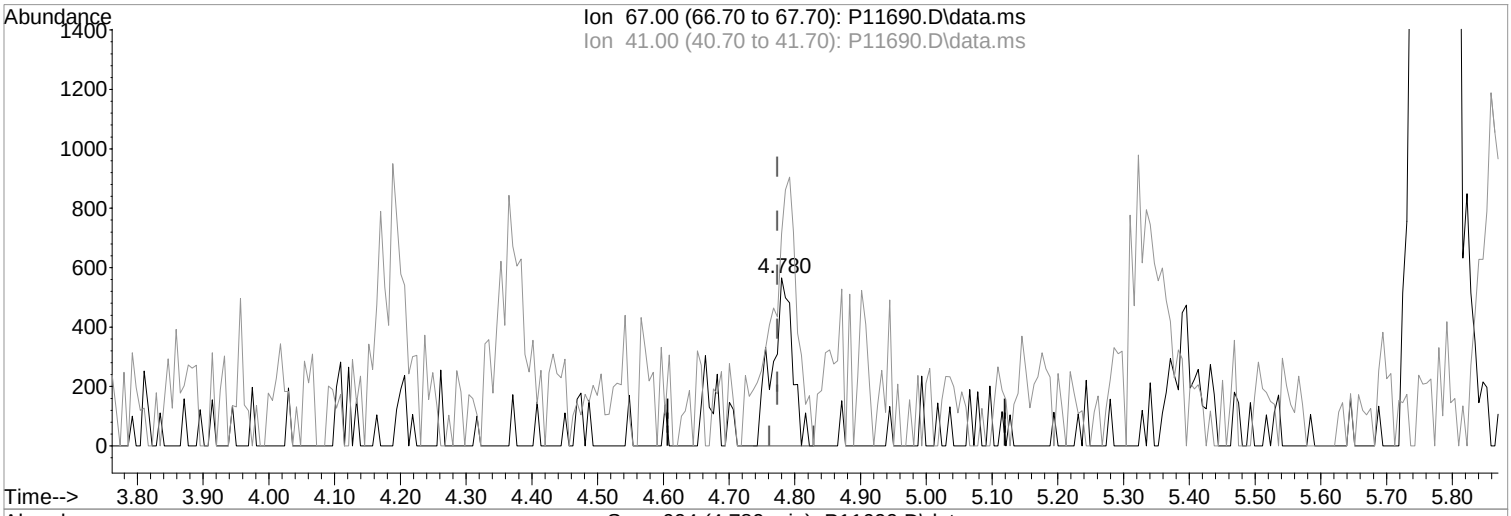
Before

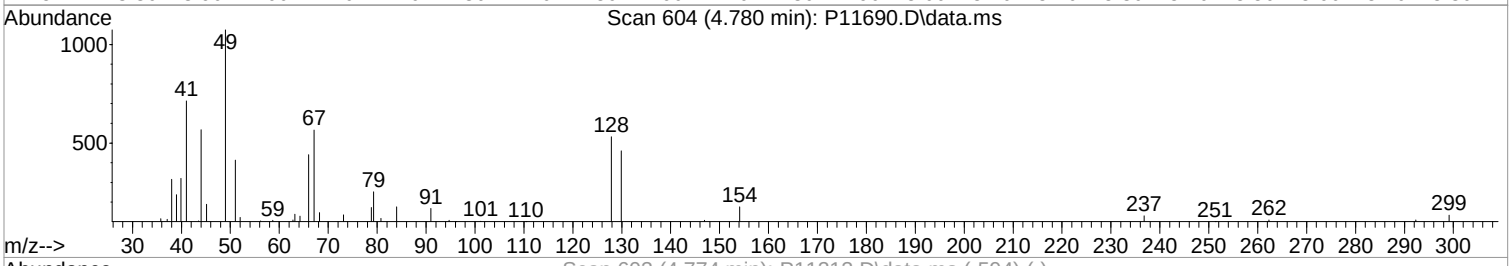
09/01/17

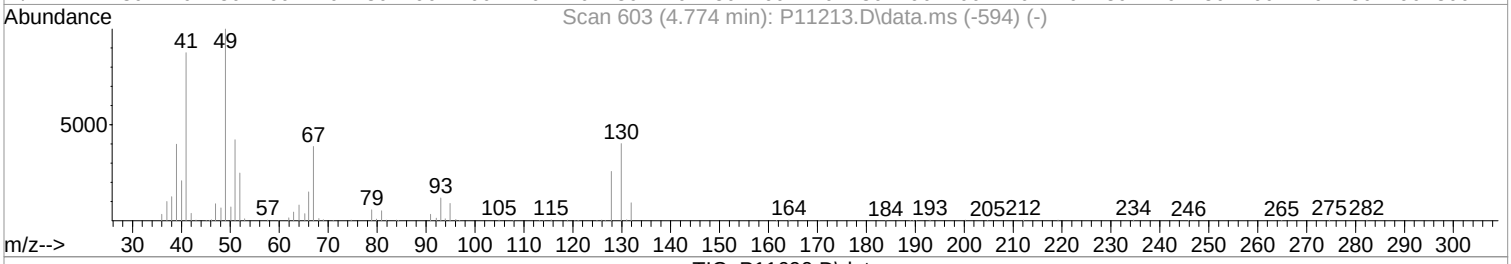
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(38) Methacrylonitrile

4.780min (+0.006) 0.60 ppb m

response 1233

Ion	Exp%	Act%
67.00	100	100
41.00	232.00	126.15#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

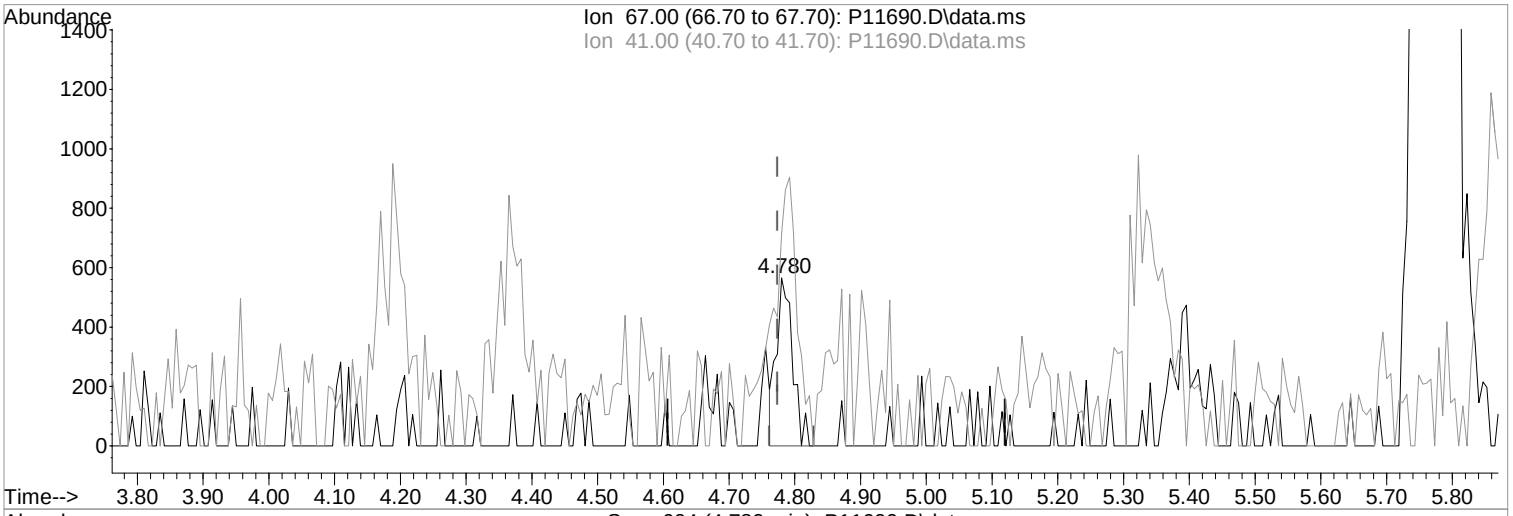
Poor integration.

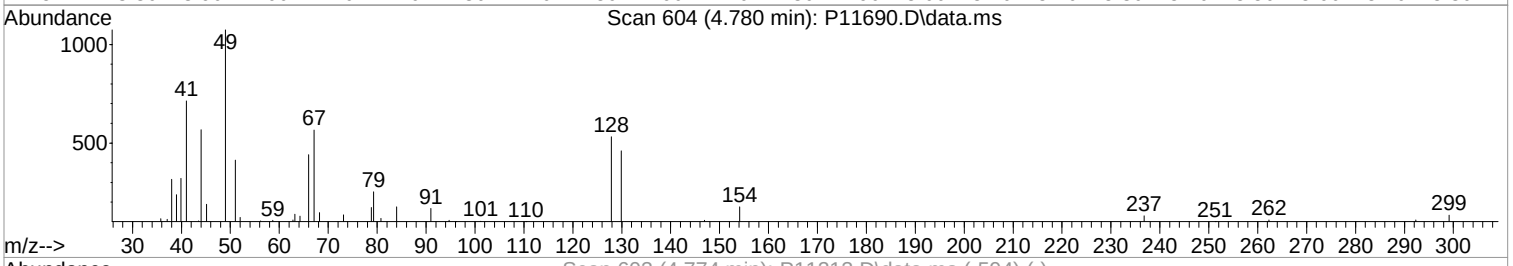
09/01/17

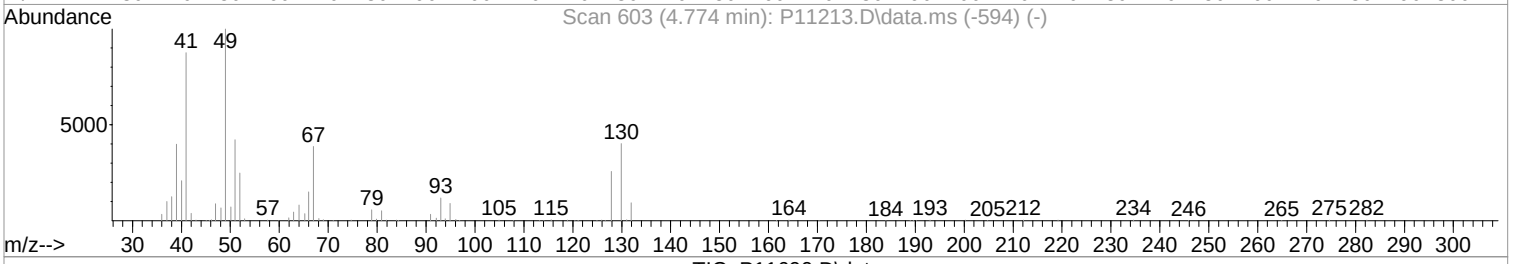
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(38) Methacrylonitrile

4.780min (+0.006) 0.47 ppb

response 975

Ion	Exp%	Act%
67.00	100	100
41.00	232.00	126.15#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

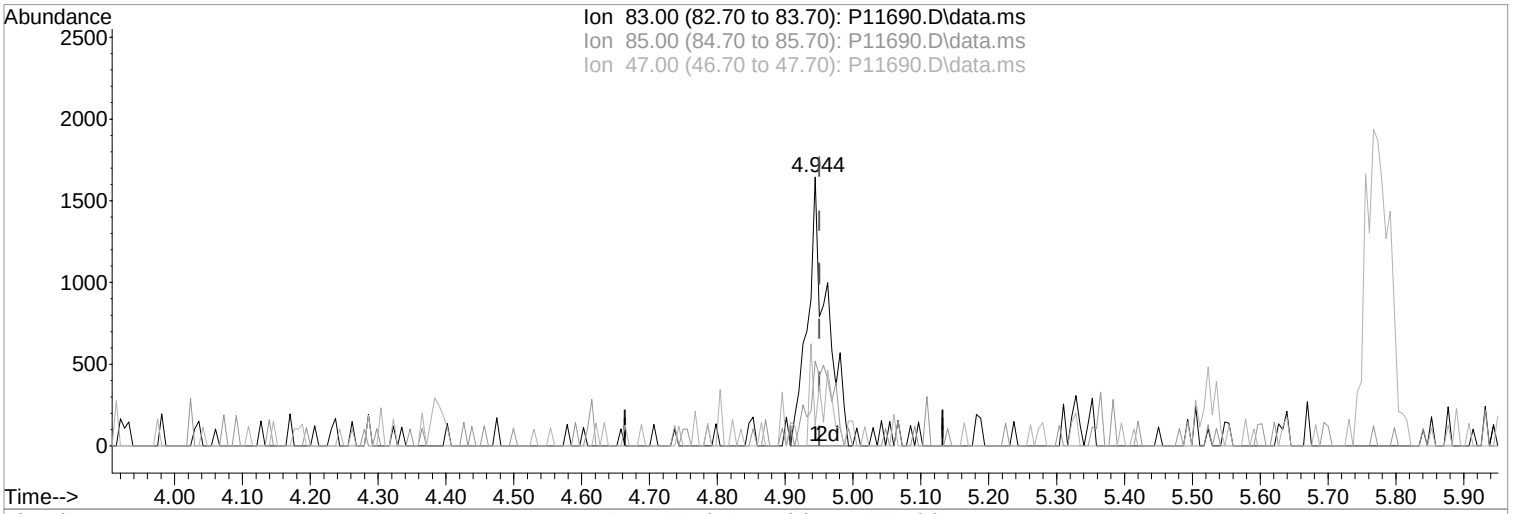
09/01/17

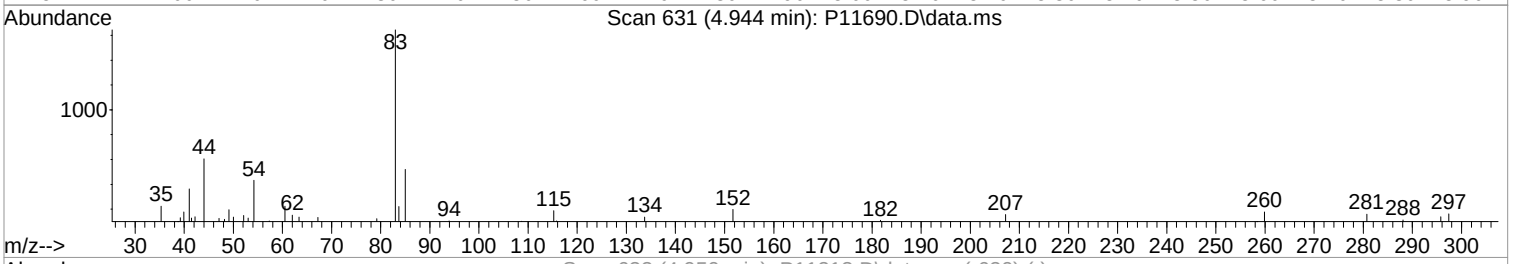
1st BA 09/01/17
2nd 09/05/17

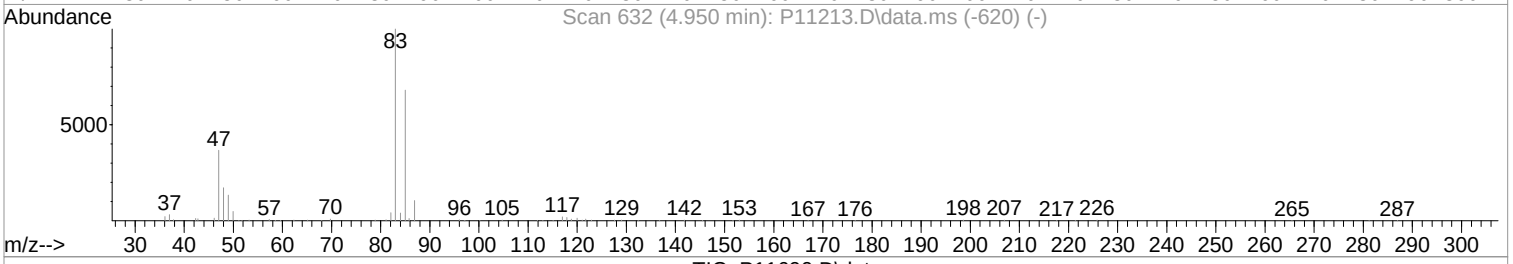
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(40) Chloroform (P)

4.944min (-0.006) 0.72 ppb m

response 3219

Ion	Exp%	Act%
83.00	100	100
85.00	68.00	31.55#
47.00	36.70	7.60#
0.00	0.00	0.00

Manual Integration:

After

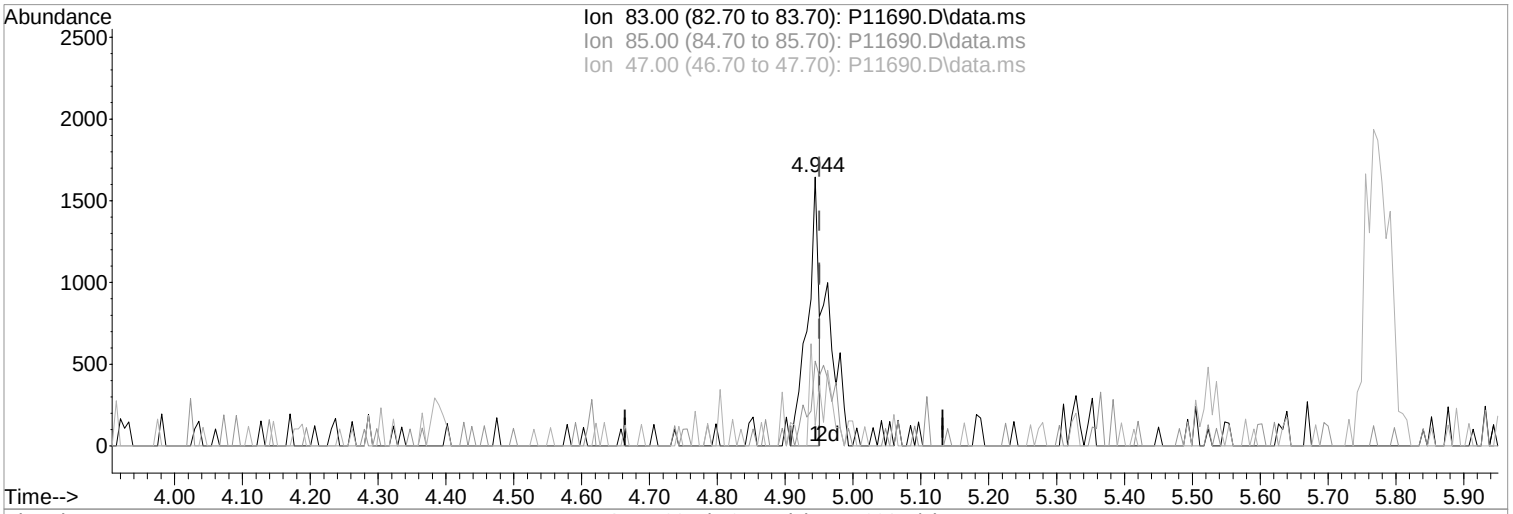
Poor integration.

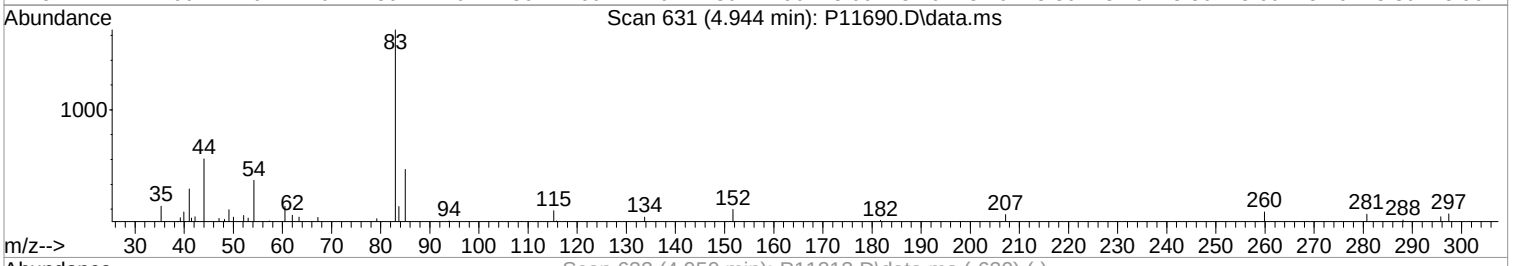
09/01/17

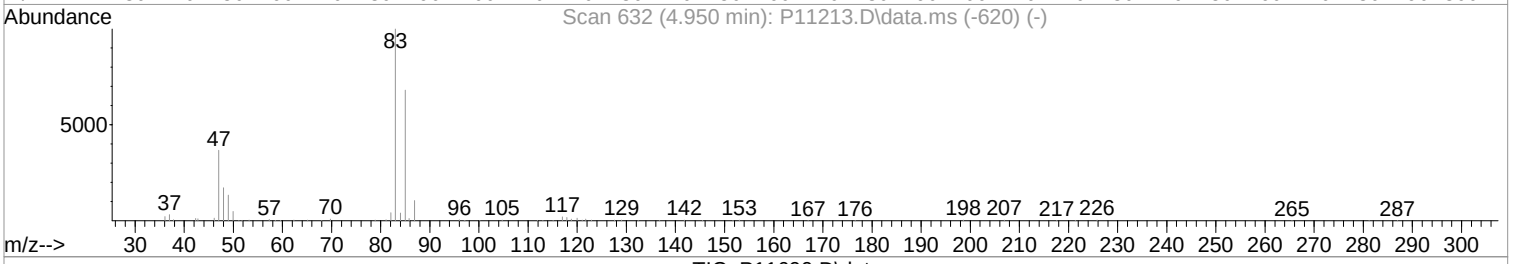
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(40) Chloroform (P)

4.944min (-0.006) 0.43 ppb

response 1894

Ion	Exp%	Act%
83.00	100	100
85.00	68.00	27.81#
47.00	36.70	6.70#
0.00	0.00	0.00

Manual Integration:

Before

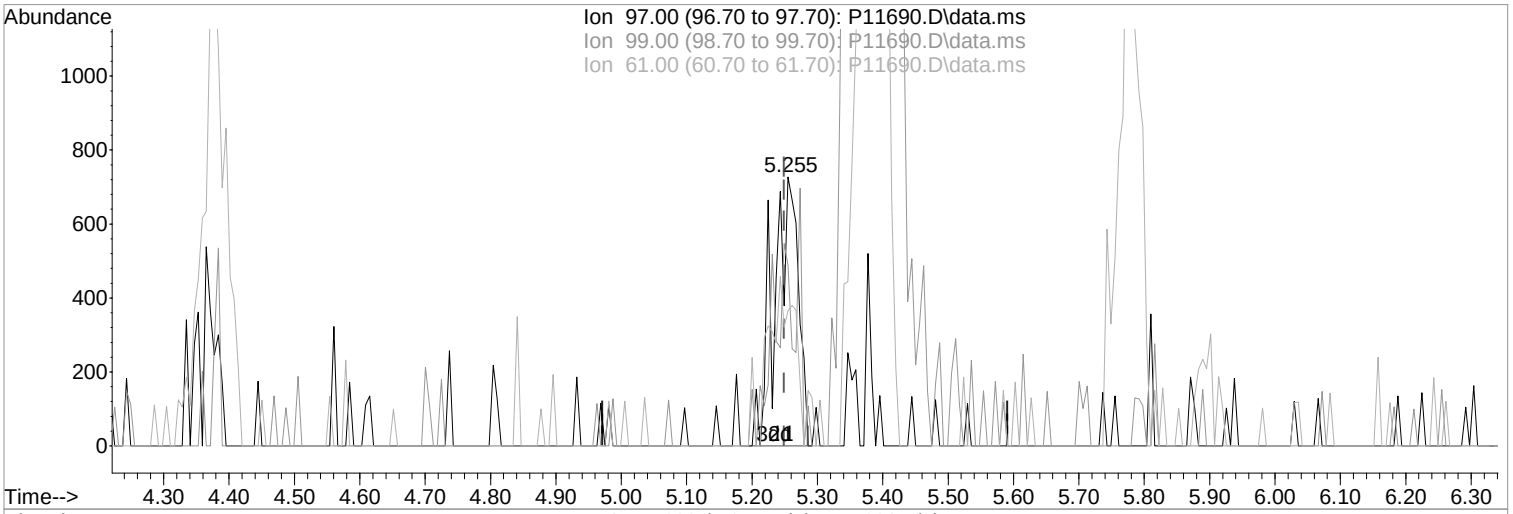
09/01/17

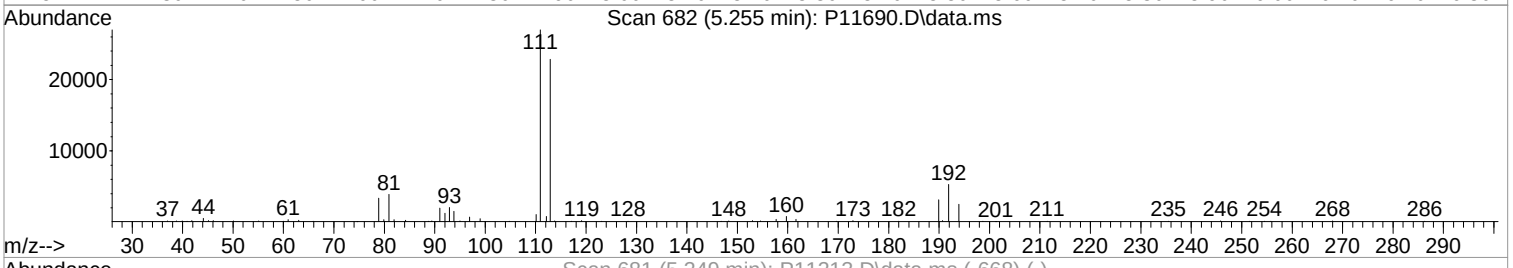
1st BA 09/01/17
2nd 09/05/17

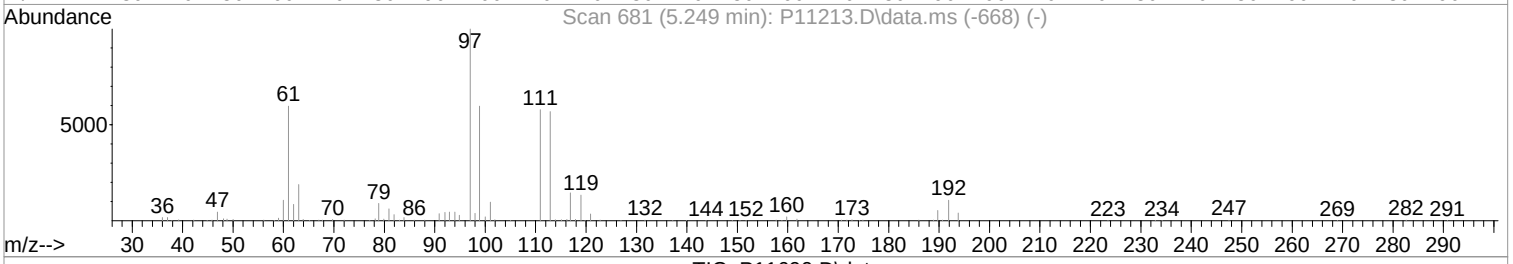
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

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

5.255min (+0.006) 0.46 ppb m

response 1885

Ion	Exp%	Act%
97.00	100	100
99.00	59.70	67.13
61.00	59.70	50.21
0.00	0.00	0.00

Manual Integration:

After

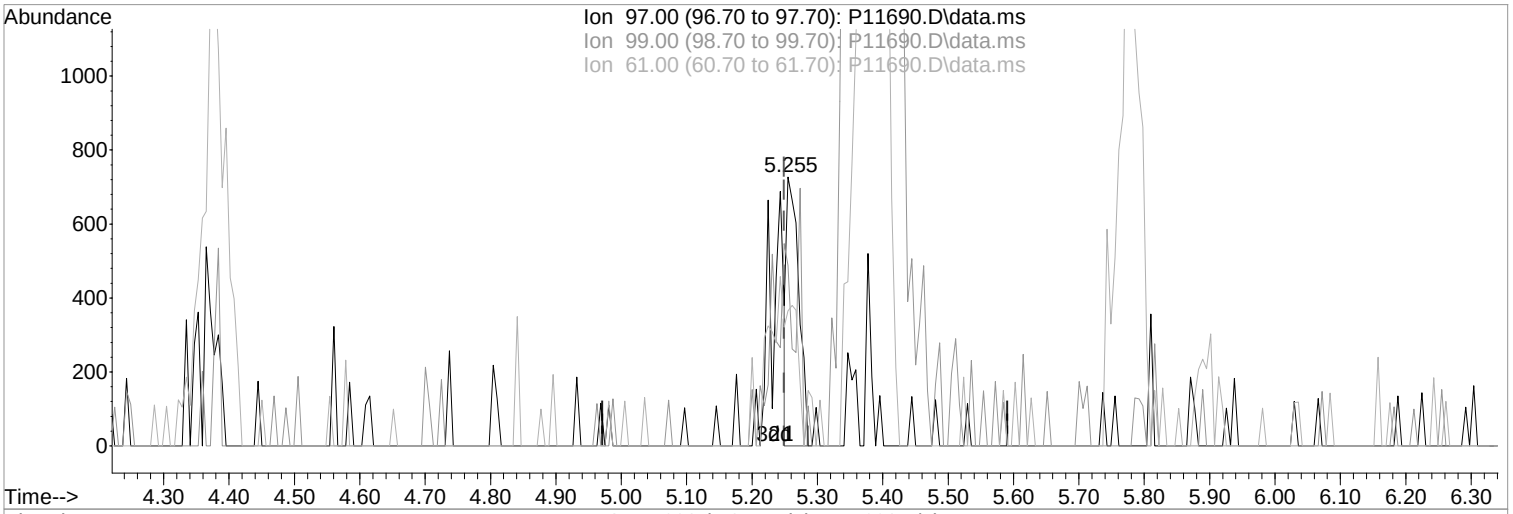
Poor integration.

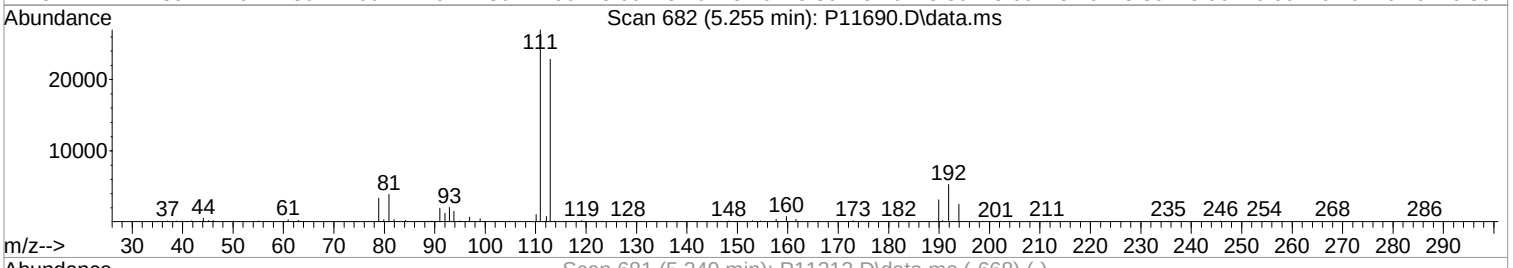
09/01/17

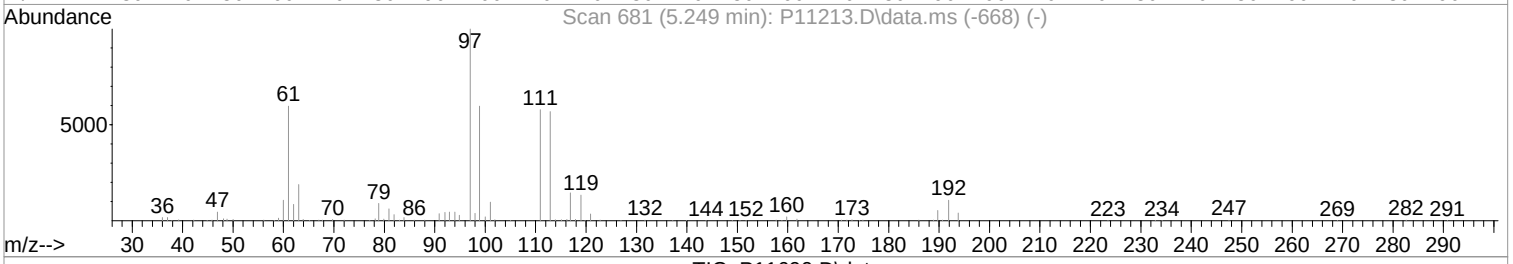
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

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

5.255min (+0.006) 0.23 ppb

response 937

Ion	Exp%	Act%
97.00	100	100
99.00	59.70	67.13
61.00	59.70	50.21
0.00	0.00	0.00

Manual Integration:

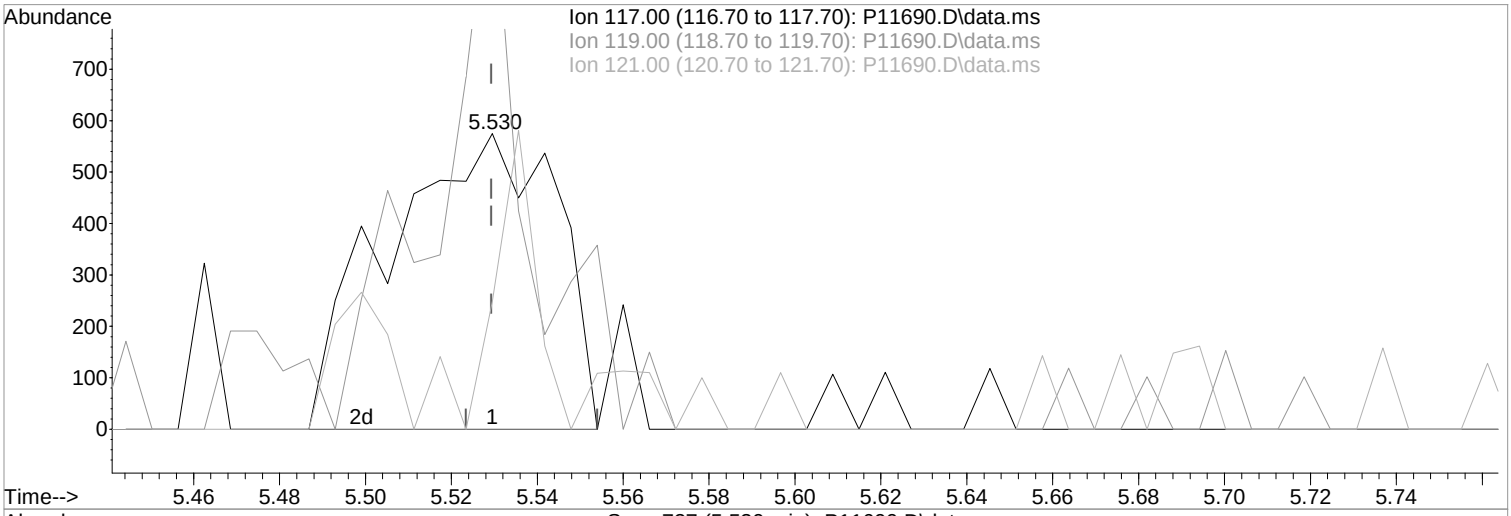
Before

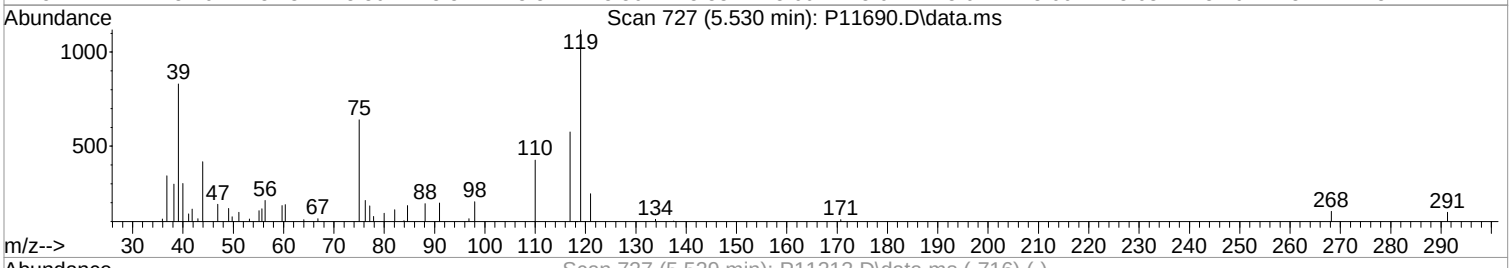
09/01/17

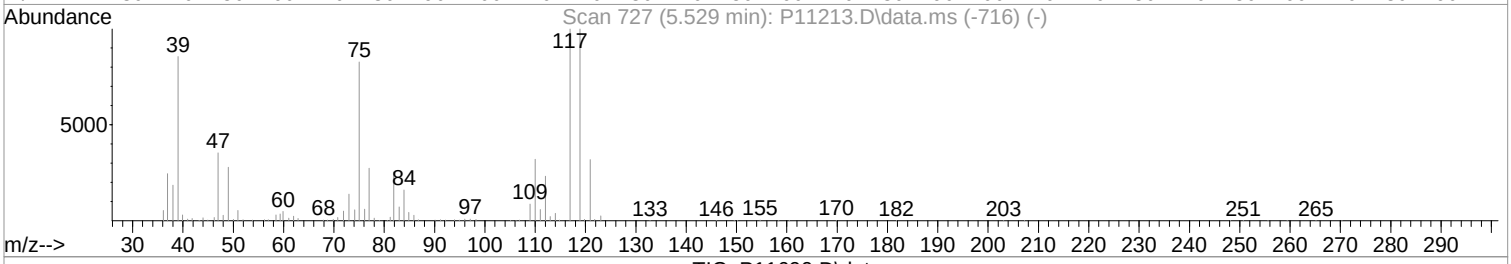
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(46) Carbontetrachloride (P)

5.530min (+0.000) 0.48 ppb m

response 1576

Ion	Exp%	Act%
117.00	100	100
119.00	100.10	194.61#
121.00	31.80	43.13
0.00	0.00	0.00

Manual Integration:

After

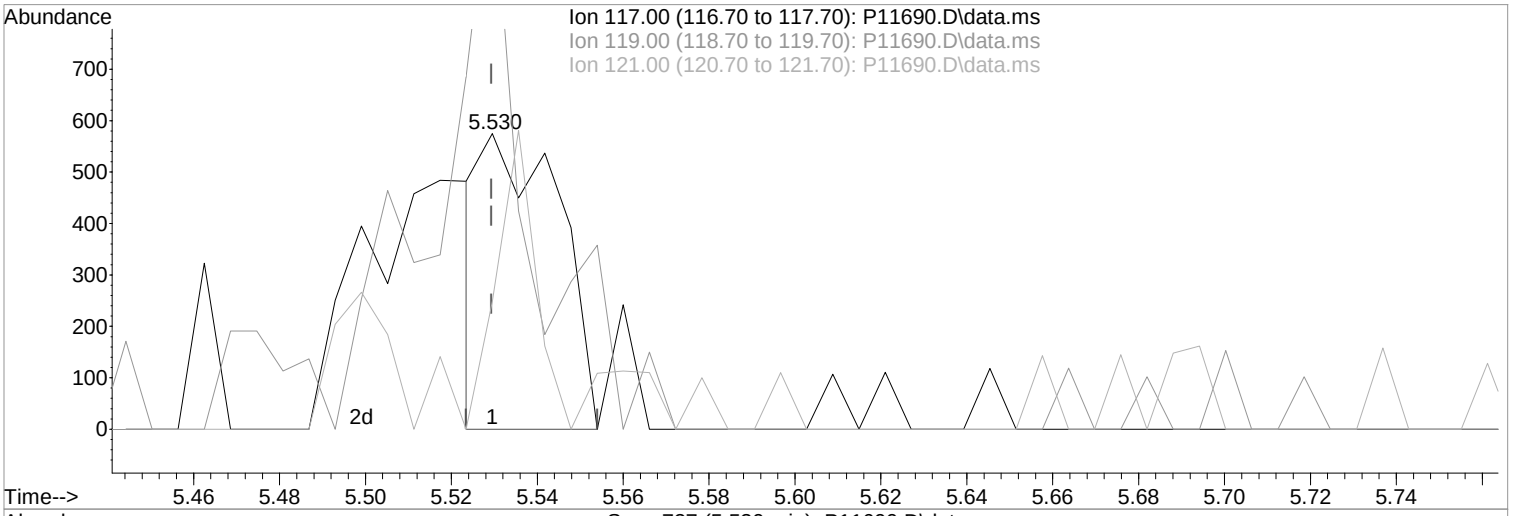
Poor integration.

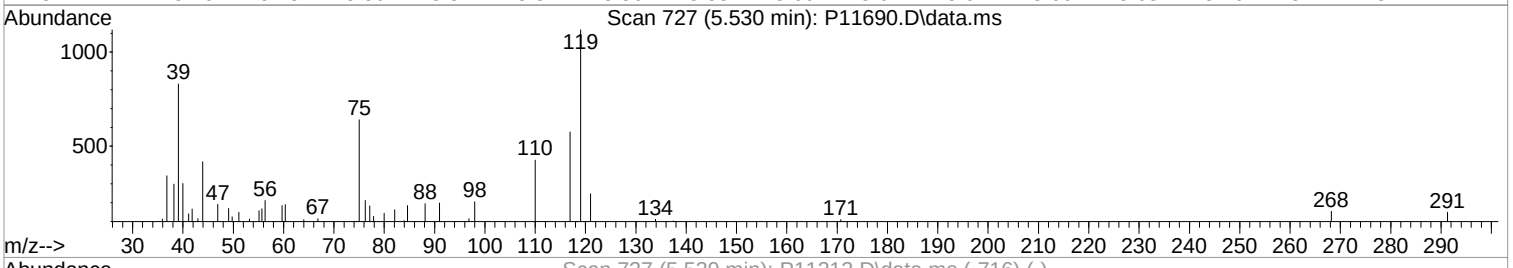
09/01/17

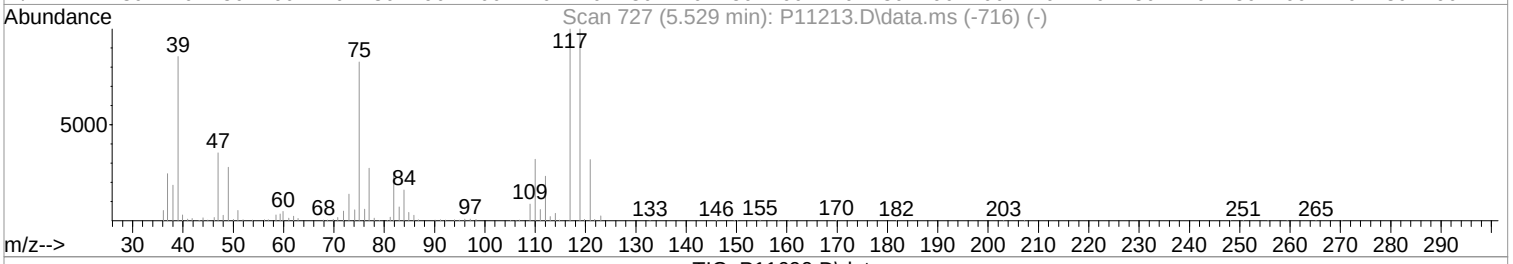
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(46) Carbontetrachloride (P)

5.530min (+0.000) 0.22 ppb

response 715

Ion	Exp%	Act%
117.00	100	100
119.00	100.10	194.61#
121.00	31.80	43.13
0.00	0.00	0.00

Manual Integration:

Before

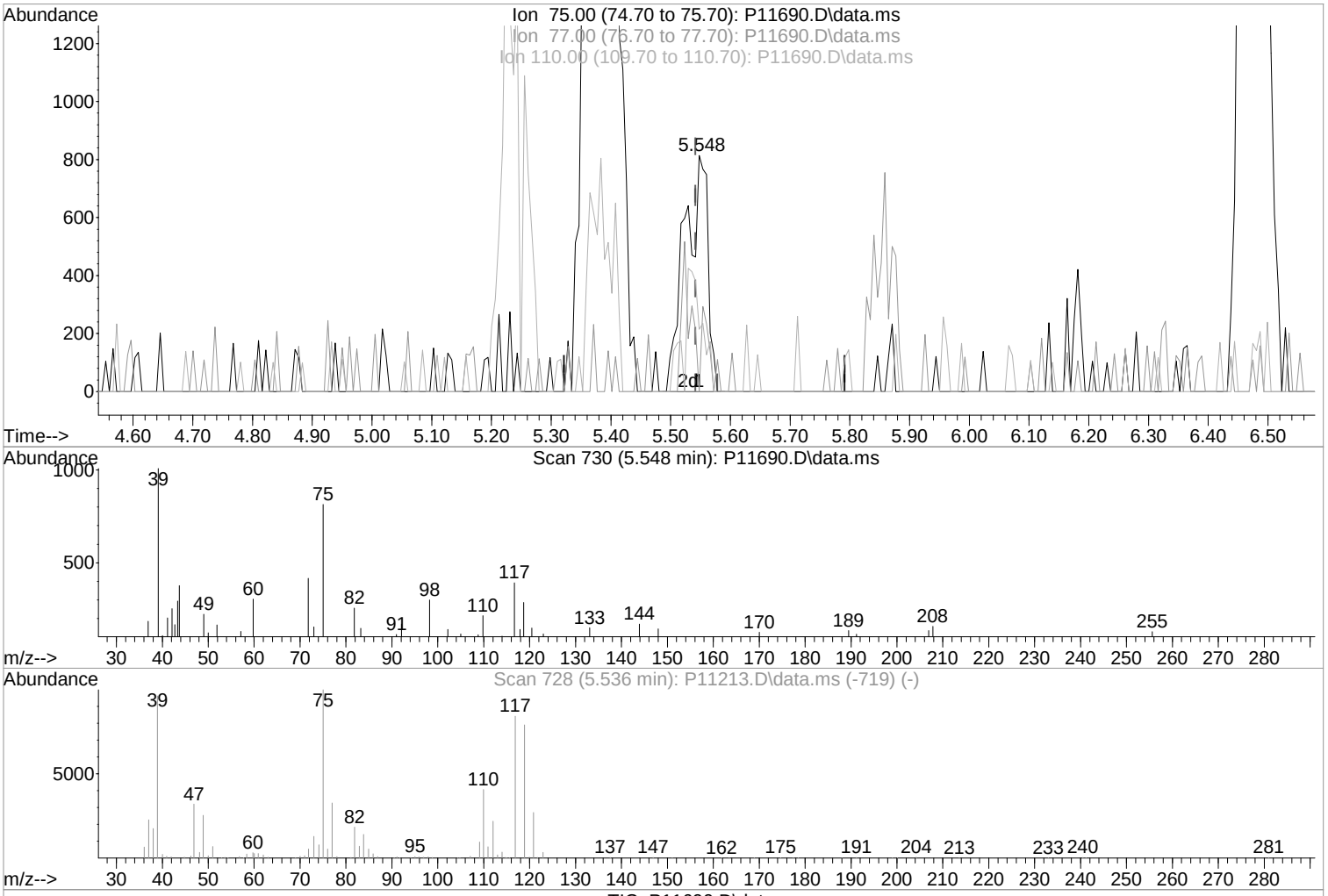
09/01/17

1st BA 09/01/17
2nd 09/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(47) 1,1-Dichloropropene

5.548min (+0.006) 0.65 ppb m

response 2174

Ion	Exp%	Act%
75.00	100	100
77.00	32.60	0.00#
110.00	40.90	26.41
0.00	0.00	0.00

Manual Integration:

After

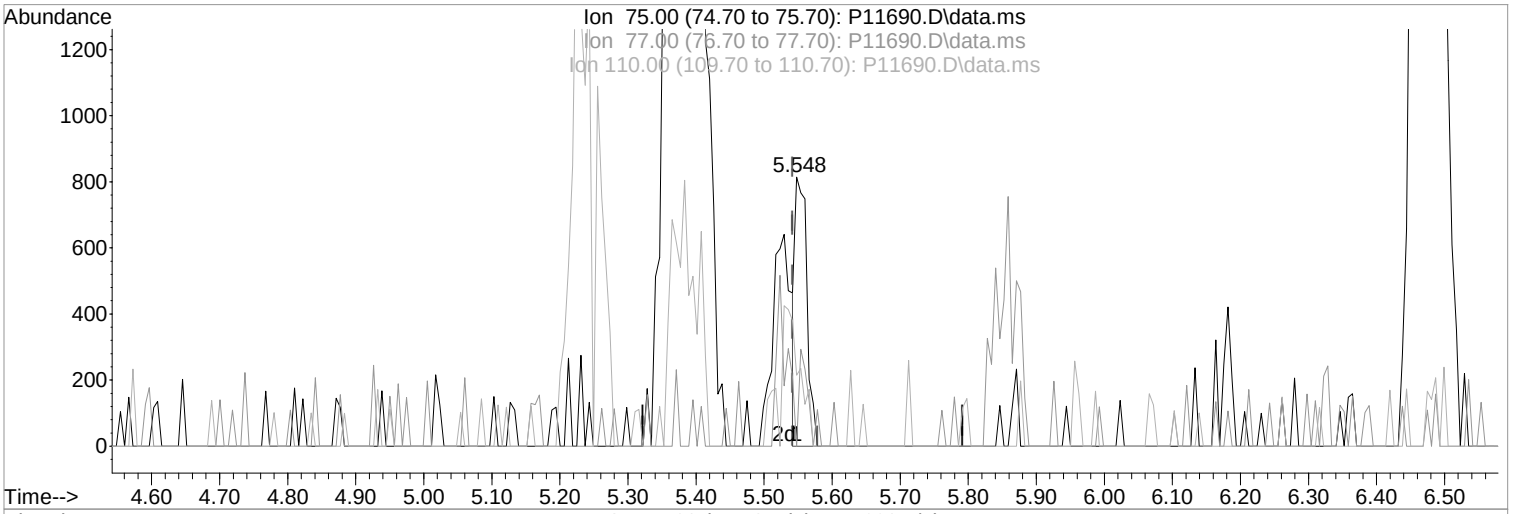
Poor integration.

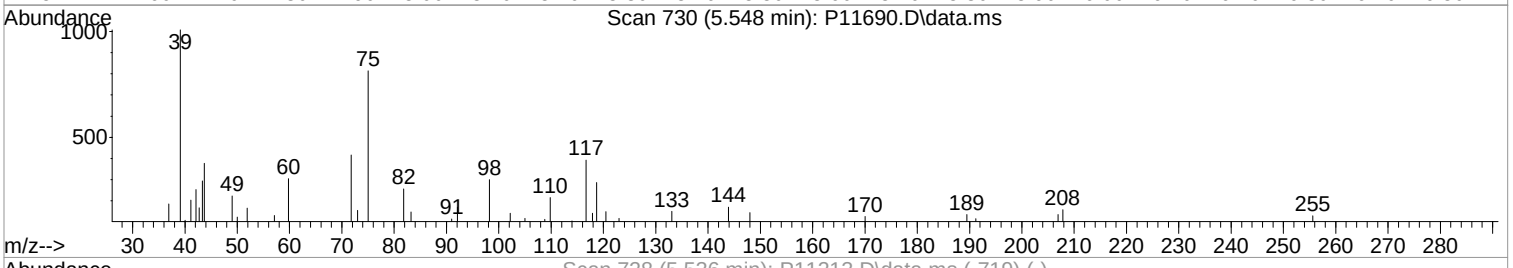
09/01/17

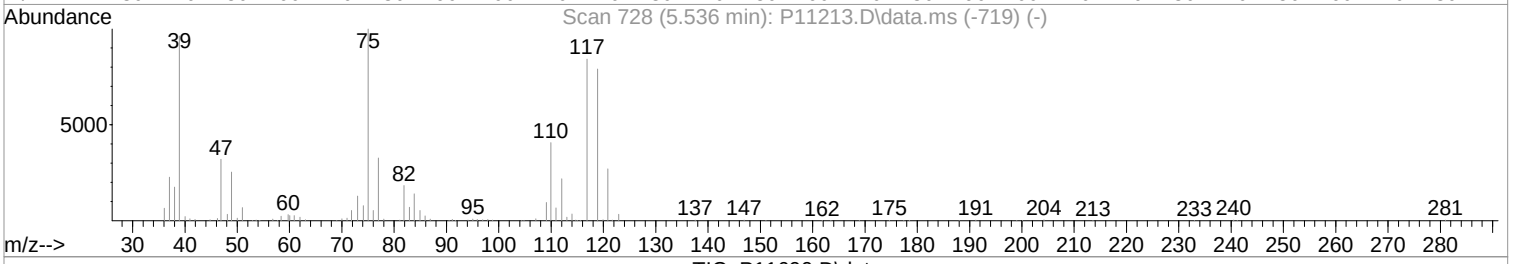
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(47) 1,1-Dichloropropene

5.548min (+0.006) 0.29 ppb

response 973

Ion	Exp%	Act%
75.00	100	100
77.00	32.60	0.00#
110.00	40.90	26.41
0.00	0.00	0.00

Manual Integration:

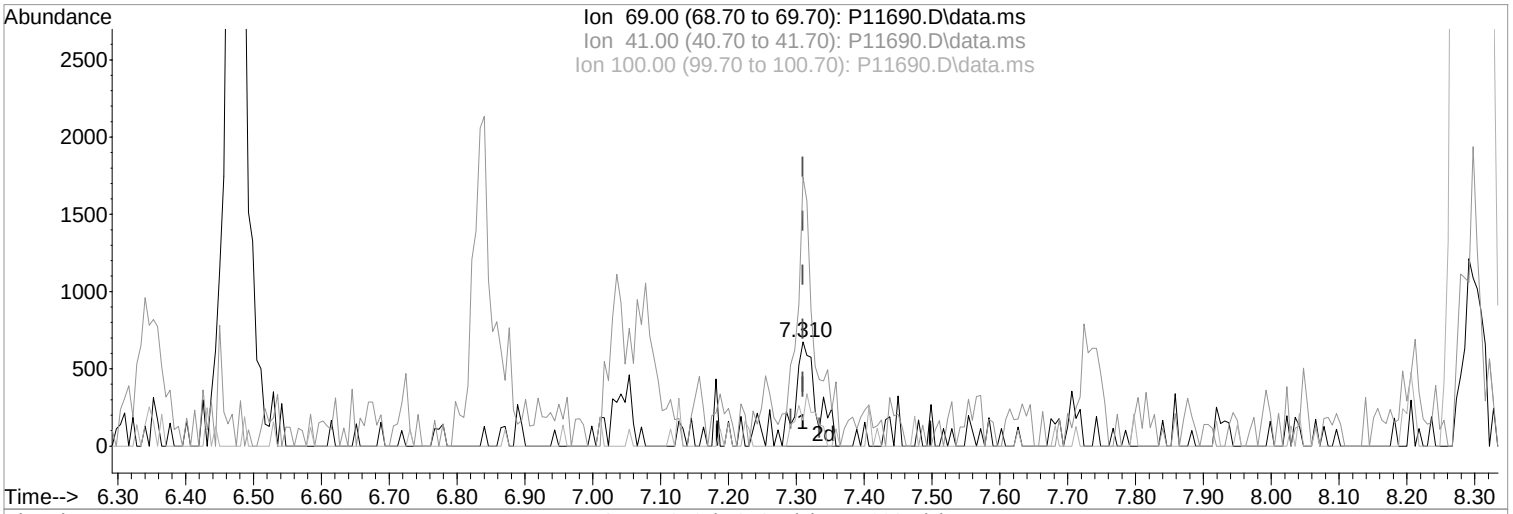
Before

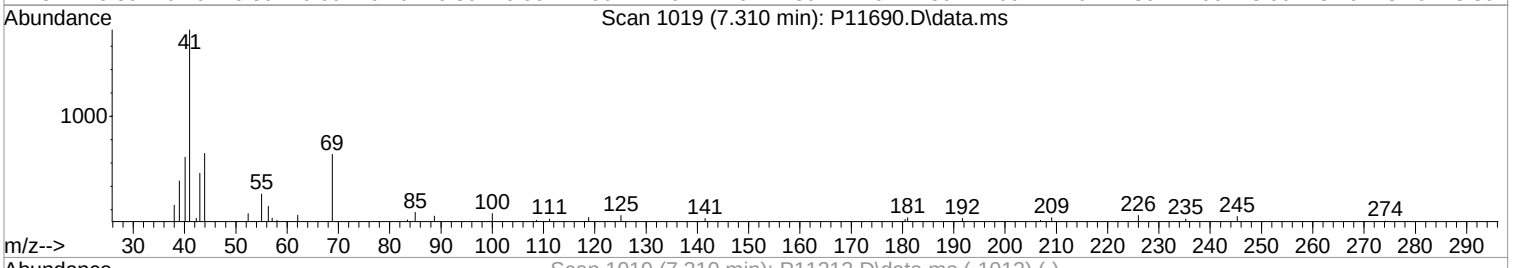
09/01/17

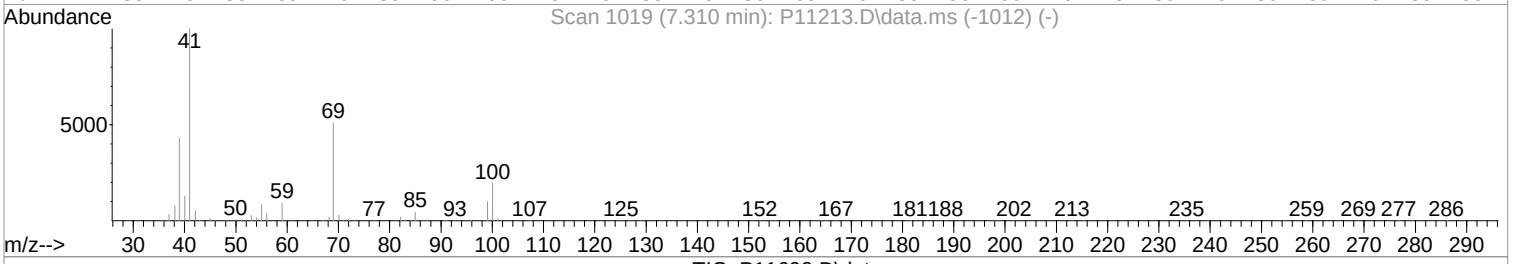
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(59) Methyl Methacrylate

7.310min (+0.000) 0.52 ppb m

response 1460

Ion	Exp%	Act%
69.00	100	100
41.00	198.00	257.93#
100.00	38.40	24.59
0.00	0.00	0.00

Manual Integration:

After

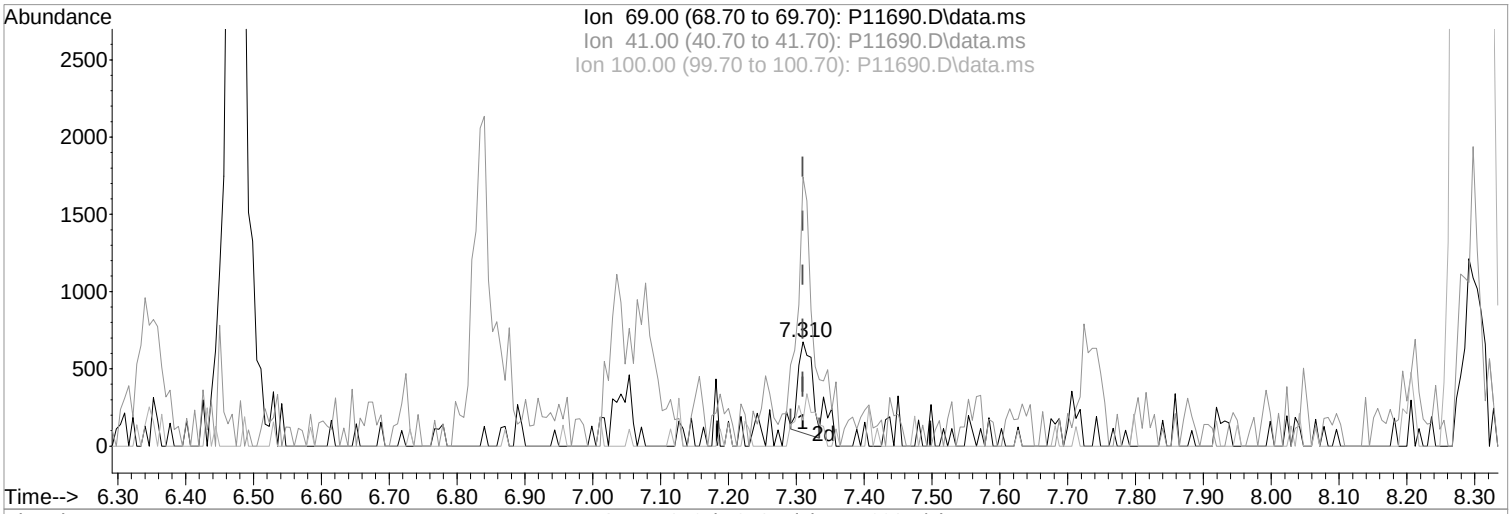
Poor integration.

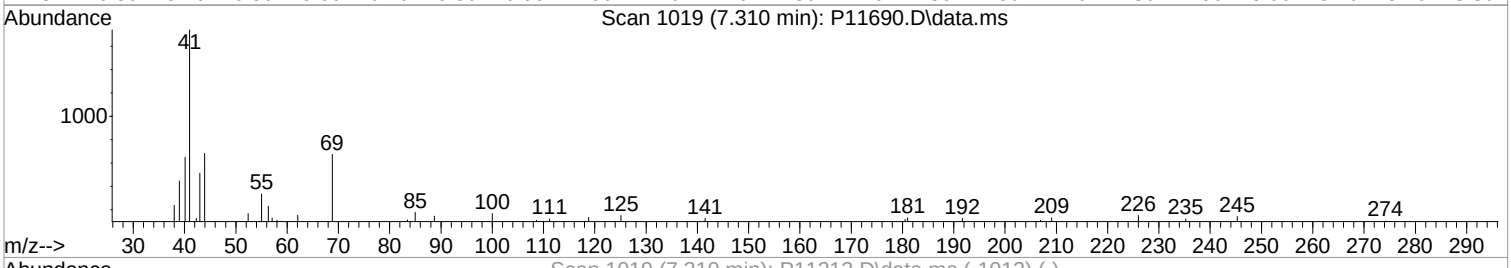
09/01/17

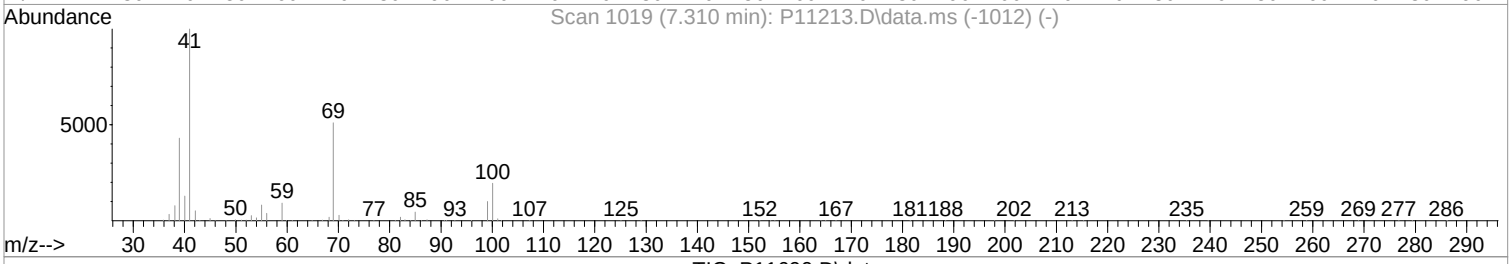
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(59) Methyl Methacrylate

7.310min (+0.000) 0.30 ppb

response 849

Ion	Exp%	Act%
69.00	100	100
41.00	198.00	257.93#
100.00	38.40	24.59
0.00	0.00	0.00

Manual Integration:

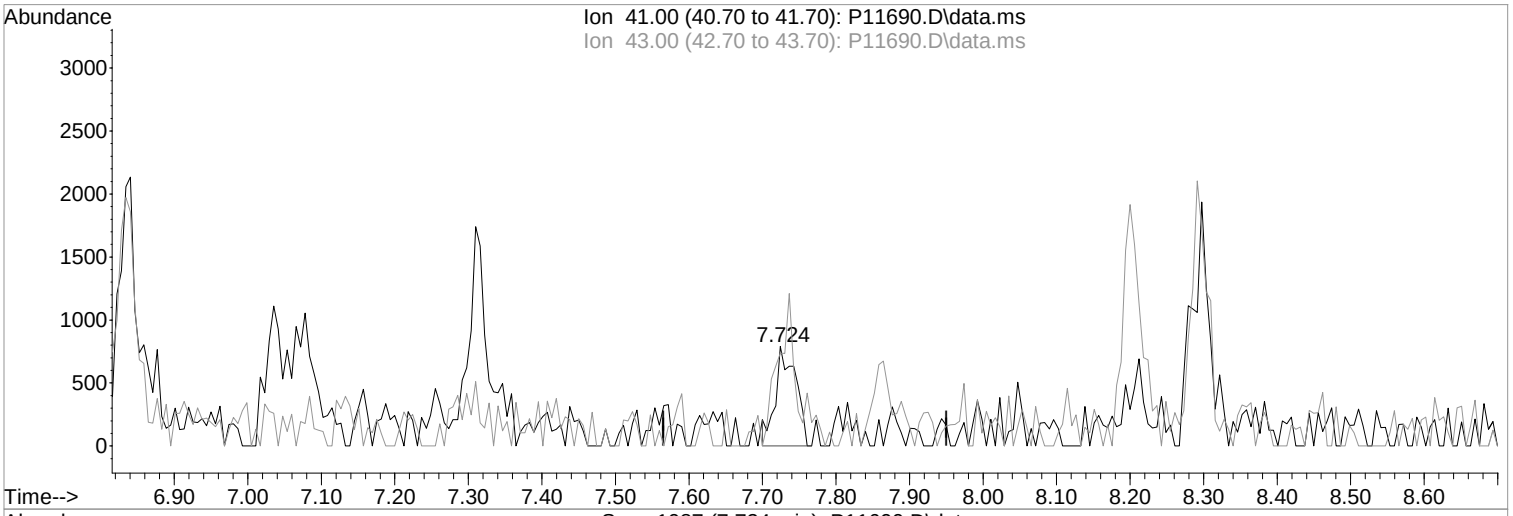
Before

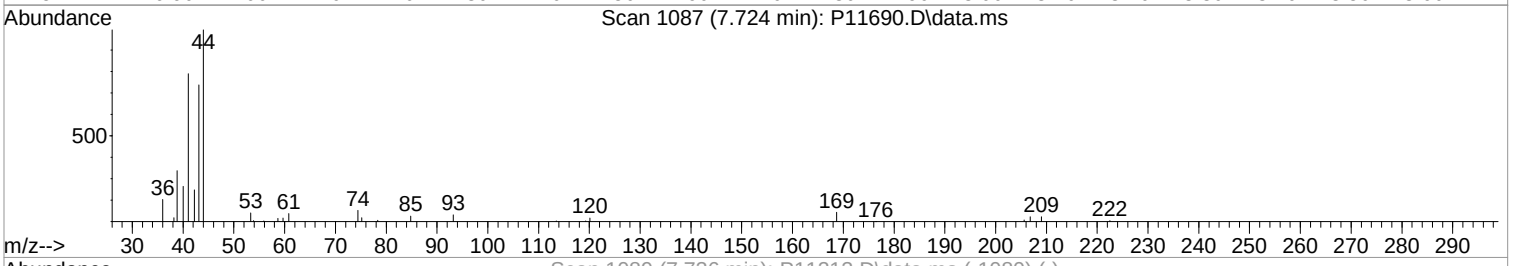
09/01/17

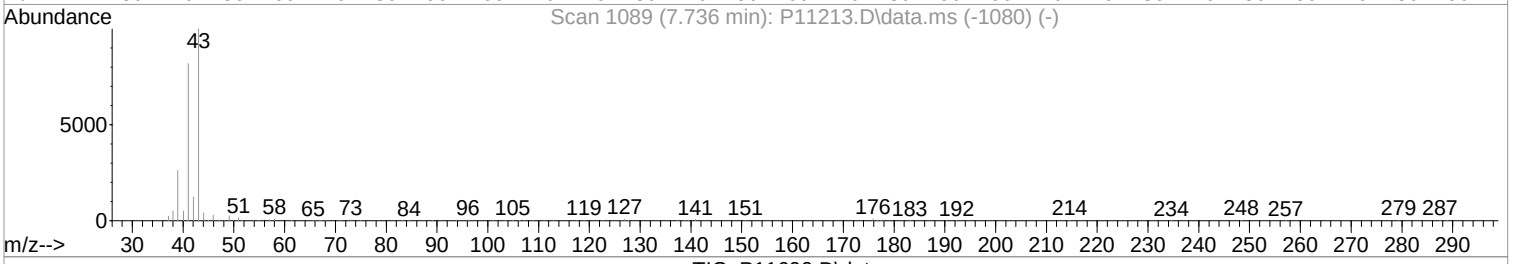
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(61) 2-Nitropropane

7.724min (-0.012) 1.01 ppb m

response 1499

Ion	Exp%	Act%
41.00	100	100
43.00	122.10	93.29#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

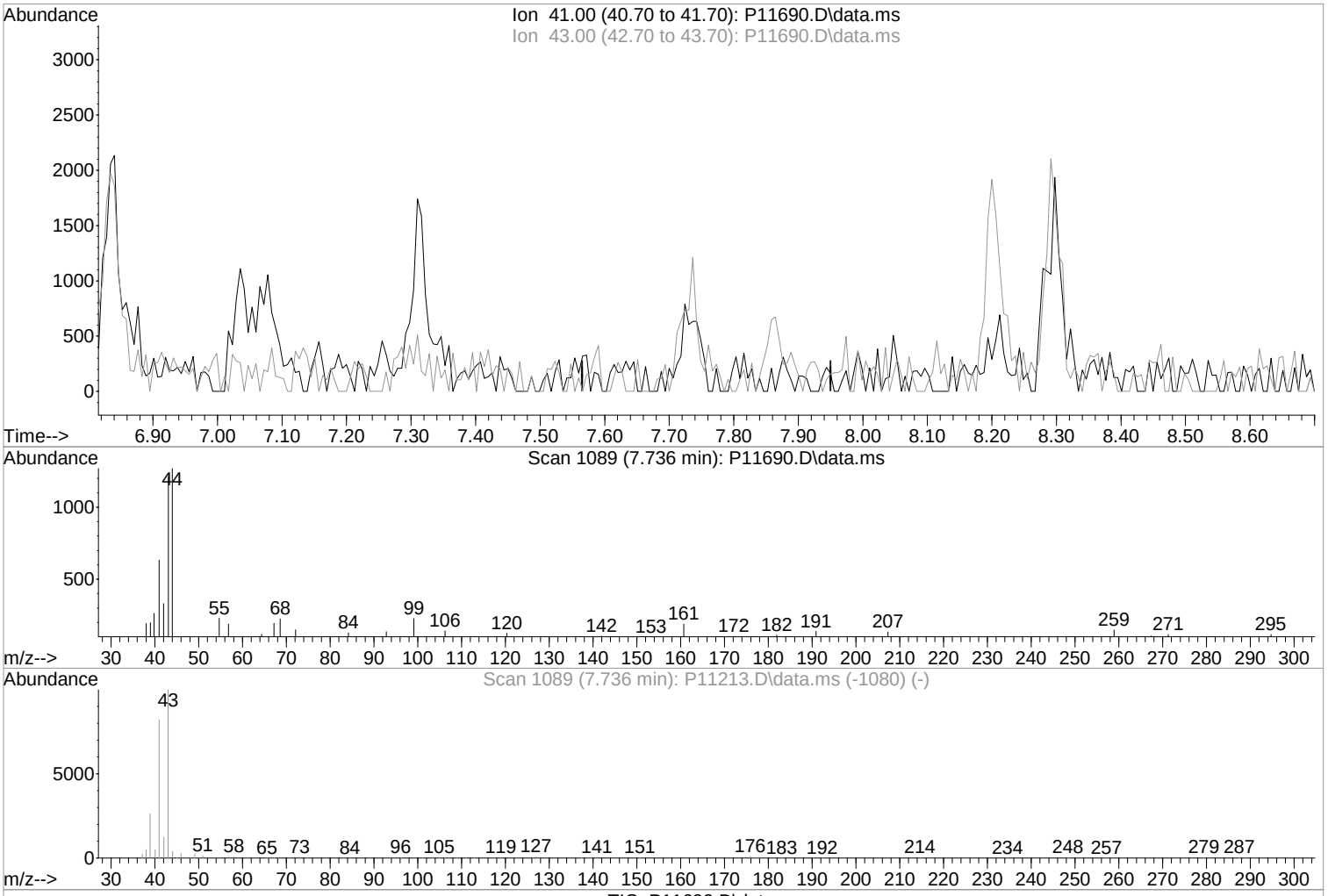
09/01/17

1st BA 09/01/17
2nd 09/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(61) 2-Nitropropane

7.736min (-7.736) 0.00 ppb

response 0

Ion	Exp%	Act%
41.00	100	0.00
43.00	122.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

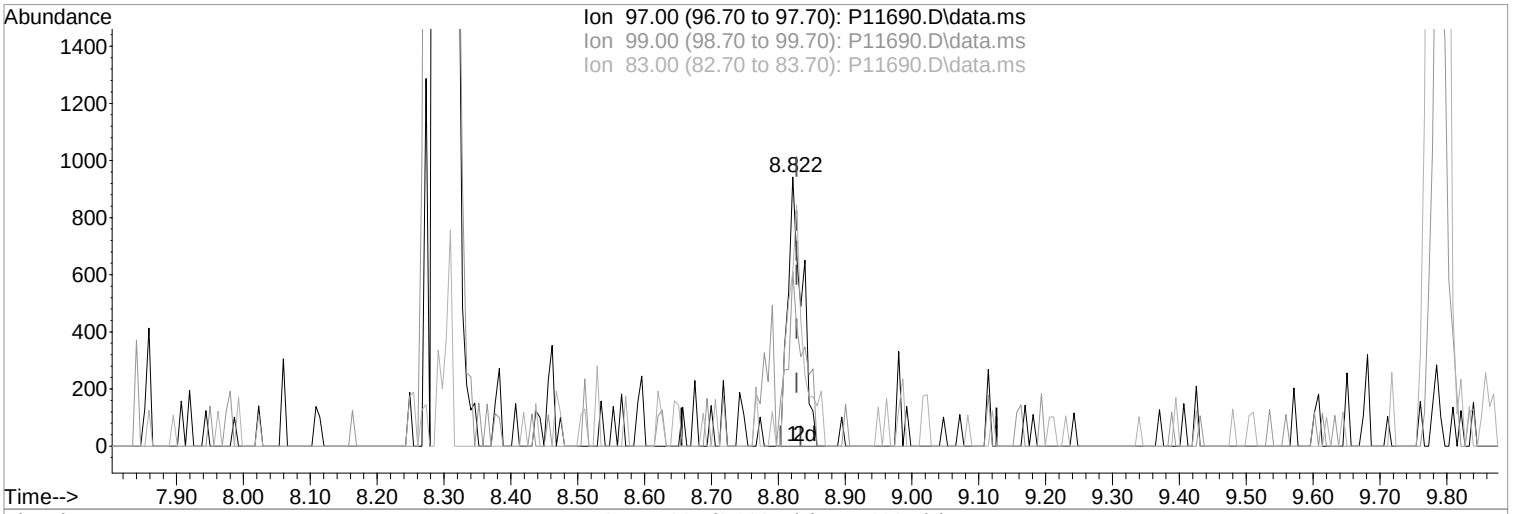
Before

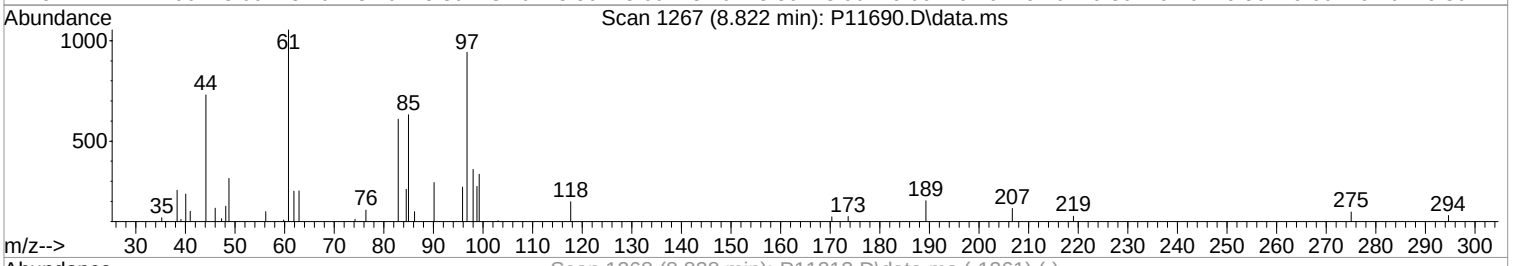
09/01/17

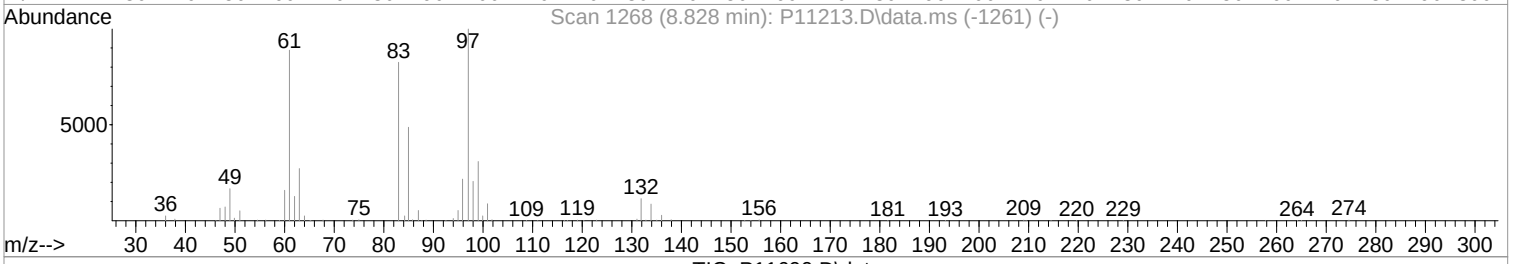
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(69) 1,1,2-Trichloroethane (P)

8.822min (-0.006) 0.52 ppb m

response 1427

Ion	Exp%	Act%
97.00	100	100
99.00	64.00	35.56#
83.00	81.90	64.65
0.00	0.00	0.00

Manual Integration:

After

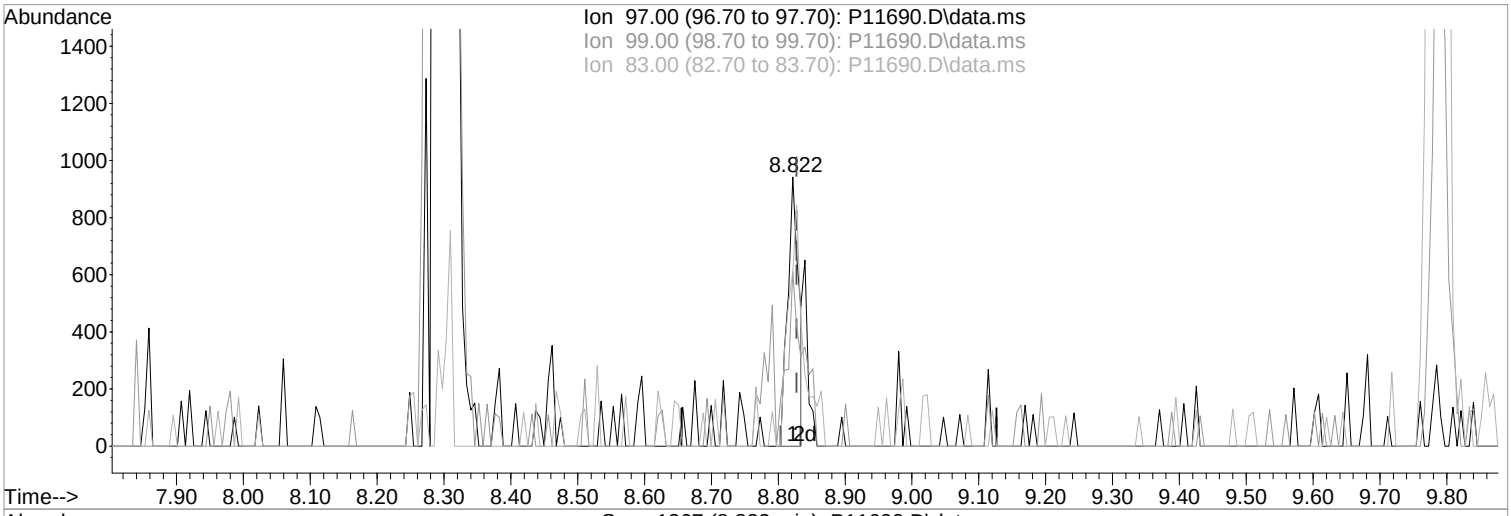
Poor integration.

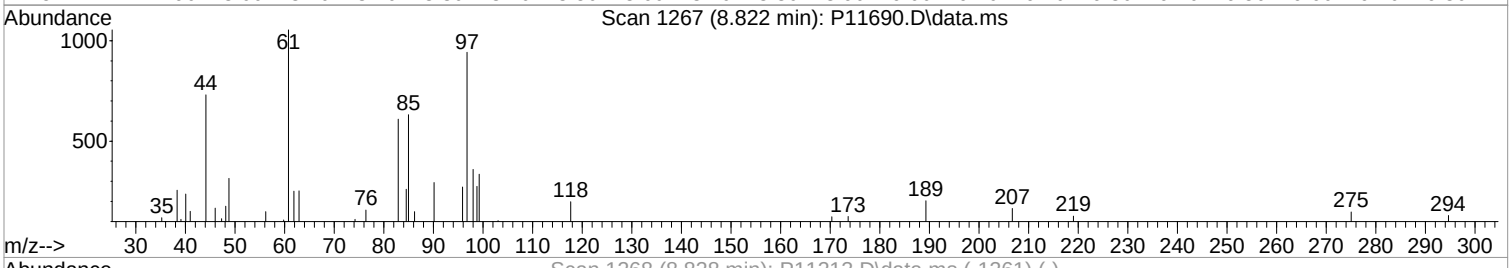
09/01/17

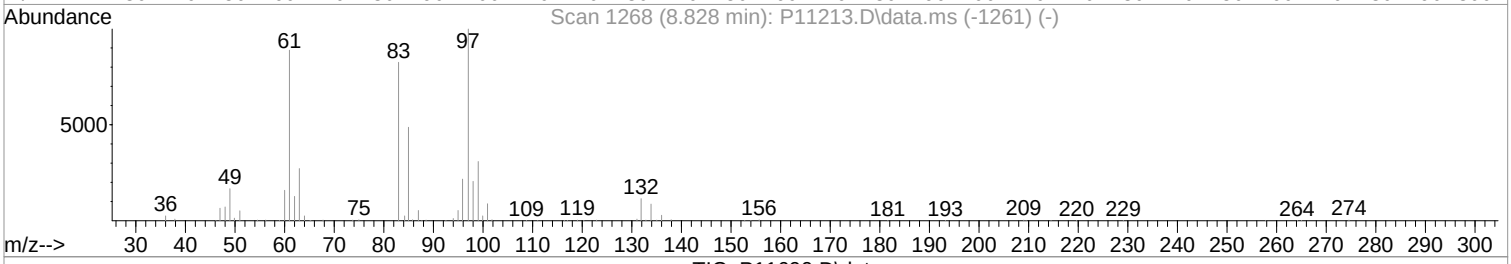
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(69) 1,1,2-Trichloroethane (P)

8.822min (-0.006) 0.40 ppb

response 1089

Ion	Exp%	Act%
97.00	100	100
99.00	64.00	64.76
83.00	81.90	64.65
0.00	0.00	0.00

Manual Integration:

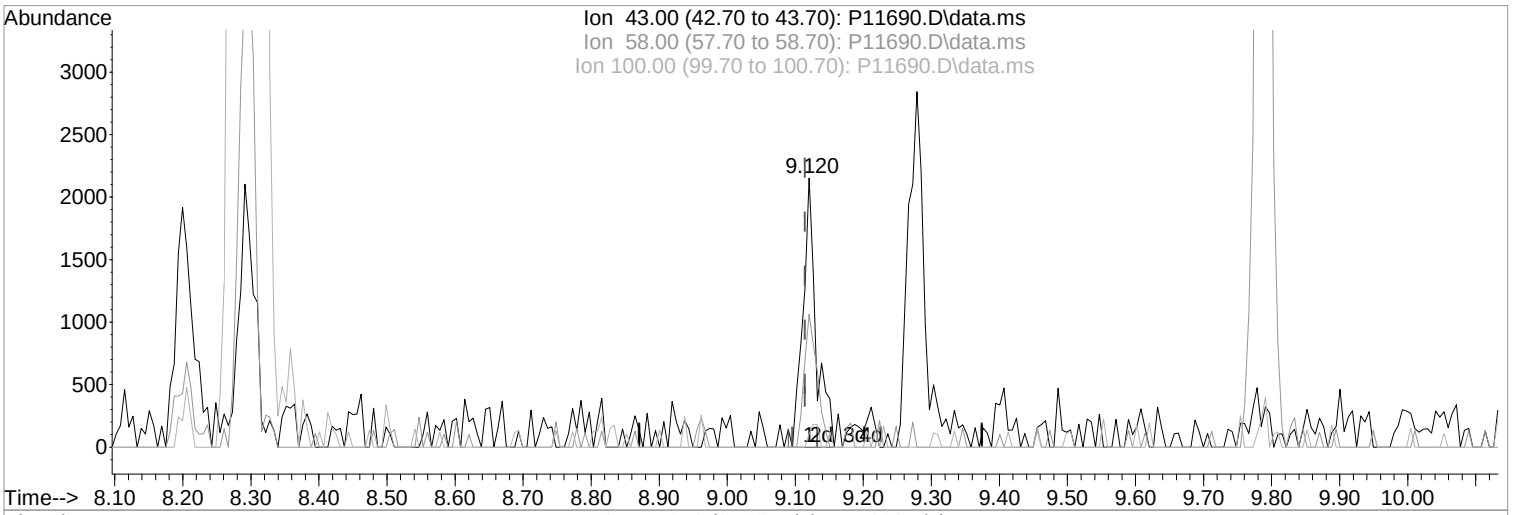
Before

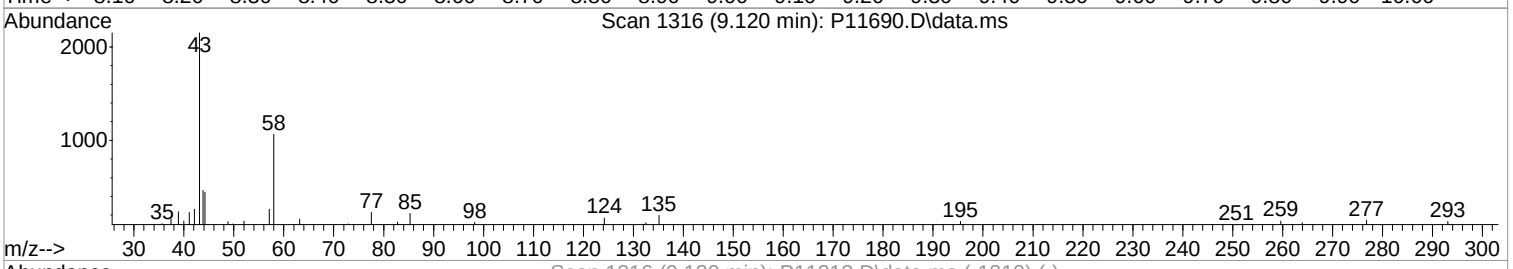
09/01/17

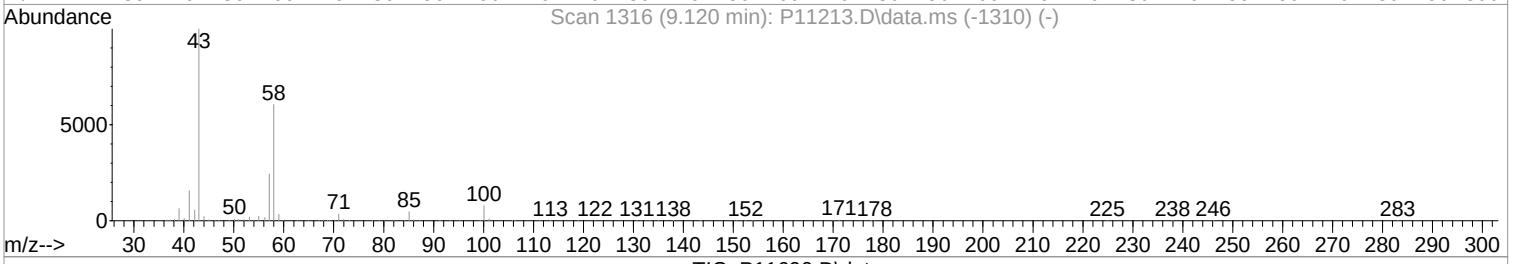
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(73) 2-Hexanone (P)

9.120min (+0.006) 0.58 ppb m

response 2910

Ion	Exp%	Act%
43.00	100	100
58.00	60.50	49.49
100.00	7.80	4.79
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

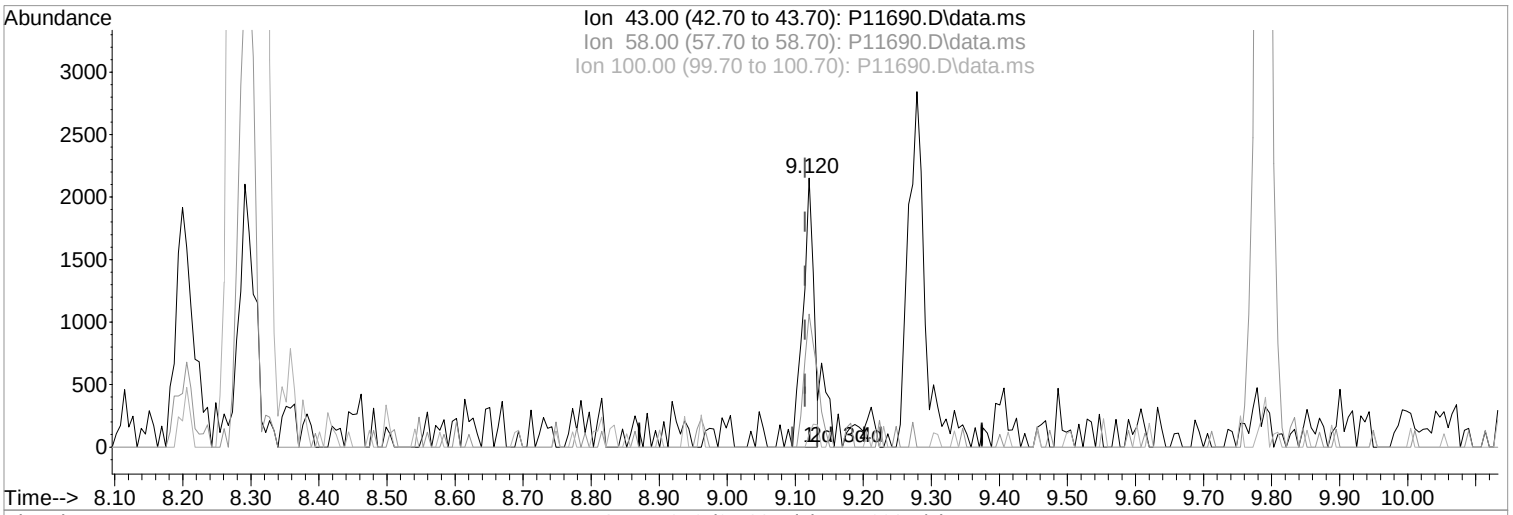
09/01/17

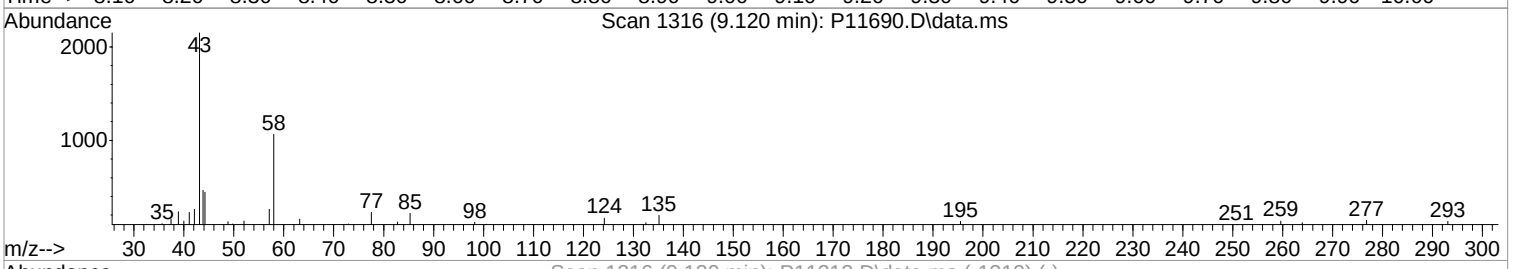
1st BA 09/01/17
2nd 09/05/17

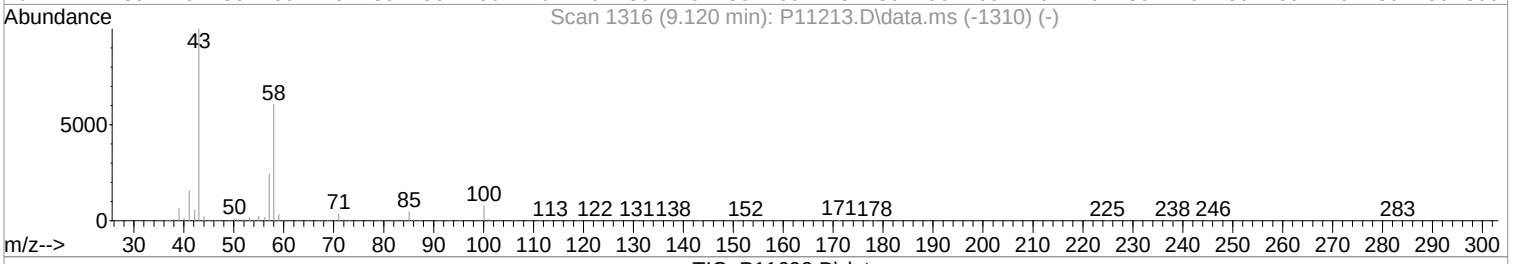
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(73) 2-Hexanone (P)

9.120min (+0.006) 0.47 ppb

response 2362

Ion	Exp%	Act%
43.00	100	100
58.00	60.50	49.49
100.00	7.80	4.79
0.00	0.00	0.00

Manual Integration:

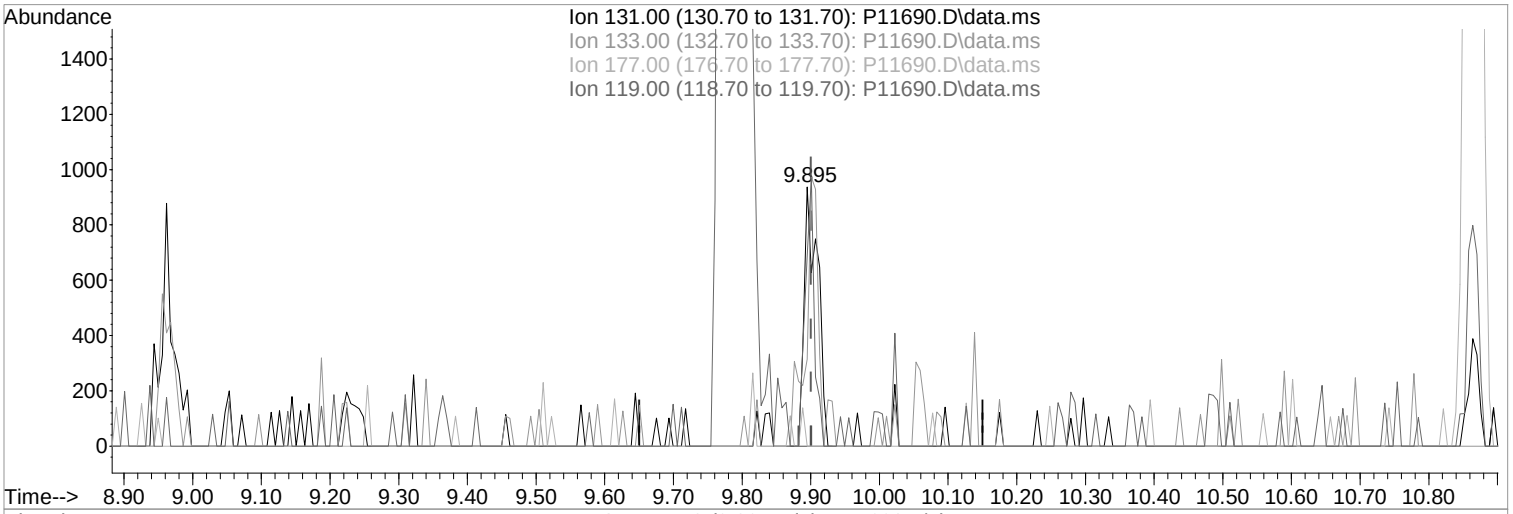
Before

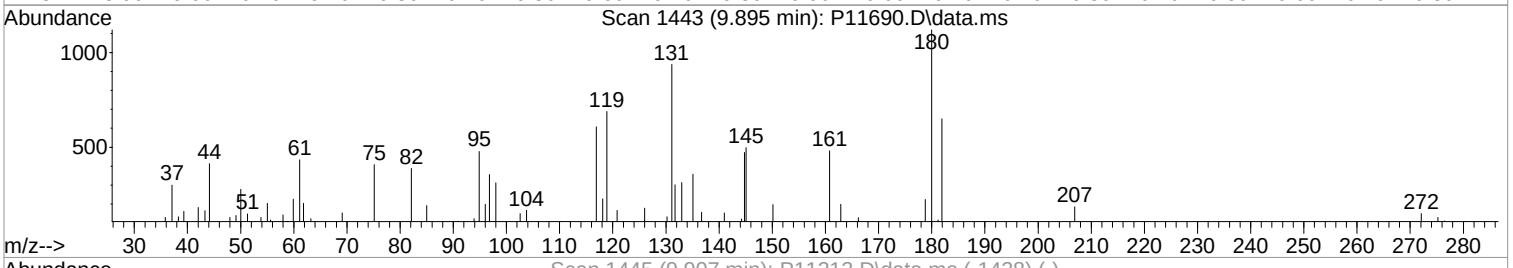
09/01/17

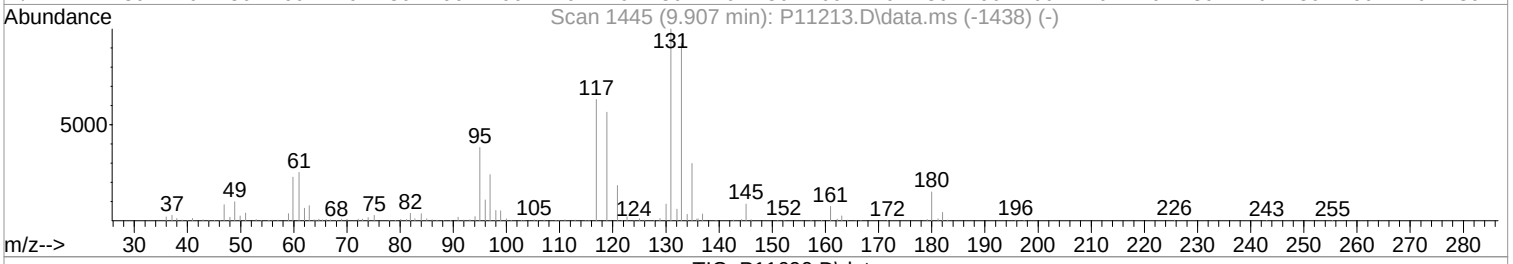
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(81) 1,1,1,2-Tetrachloroethane

9.895min (-0.006) 0.48 ppb m

response 1276

Ion	Exp%	Act%
131.00	100	100
133.00	92.70	33.51#
177.00	0.00	0.00
119.00	56.60	73.43

Manual Integration:

After

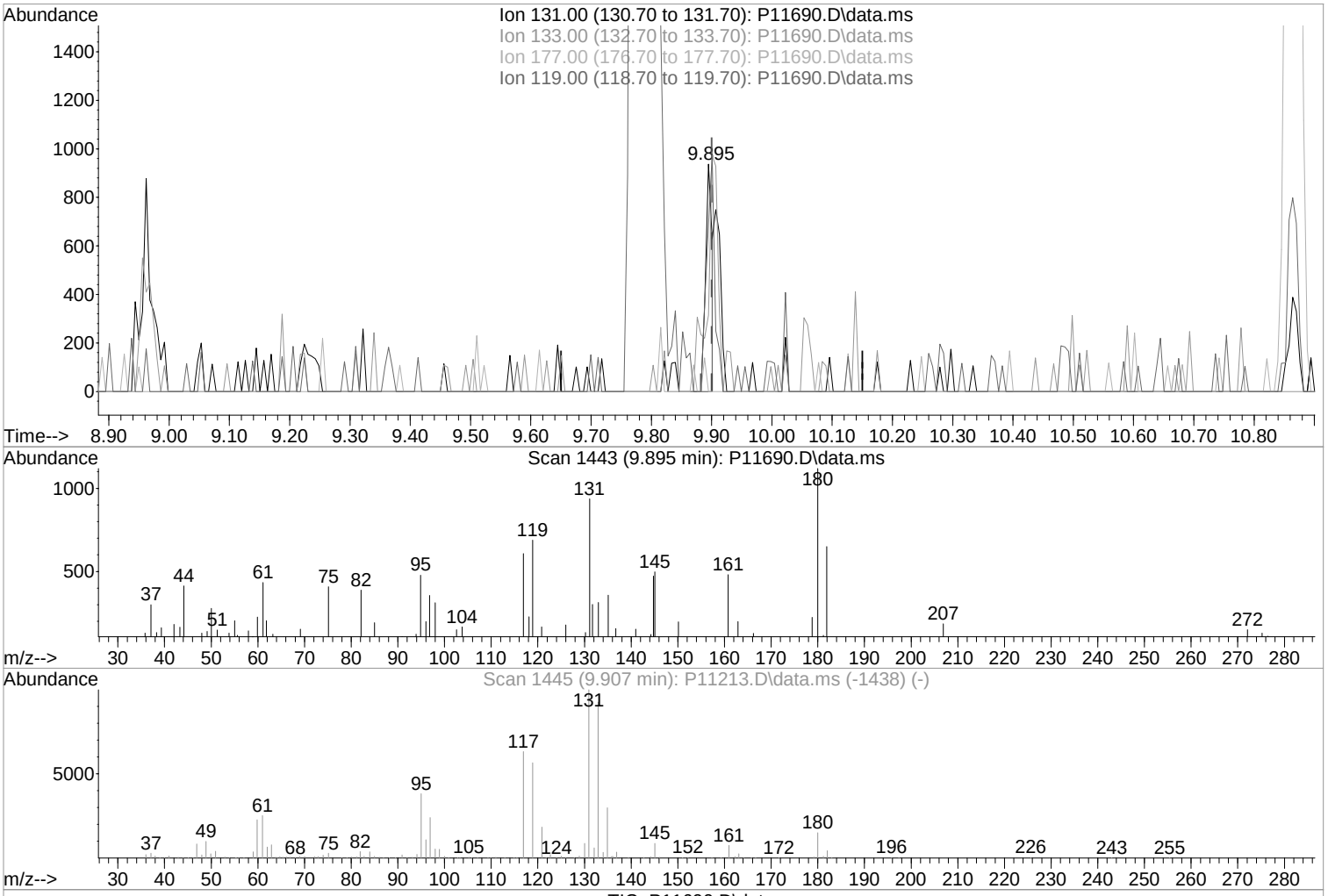
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(81) 1,1,1,2-Tetrachloroethane

9.895min (-0.006) 0.26 ppb

response 699

Ion	Exp%	Act%
131.00	100	100
133.00	92.70	25.34#
177.00	0.00	0.00
119.00	56.60	55.53

Manual Integration:

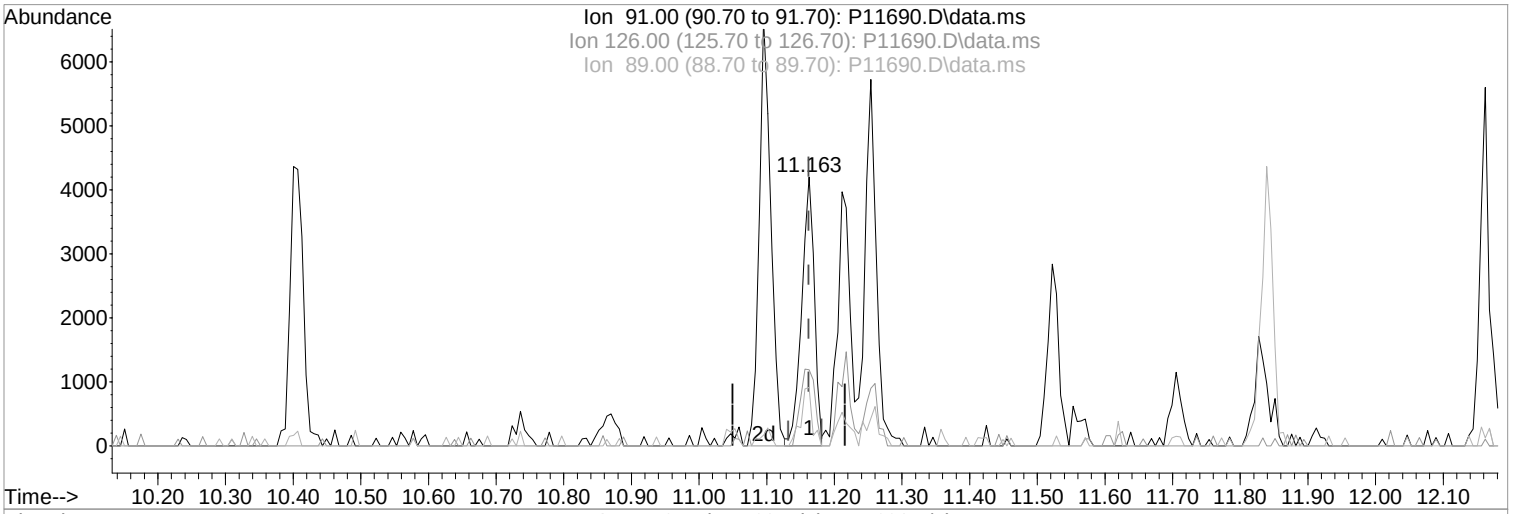
Before

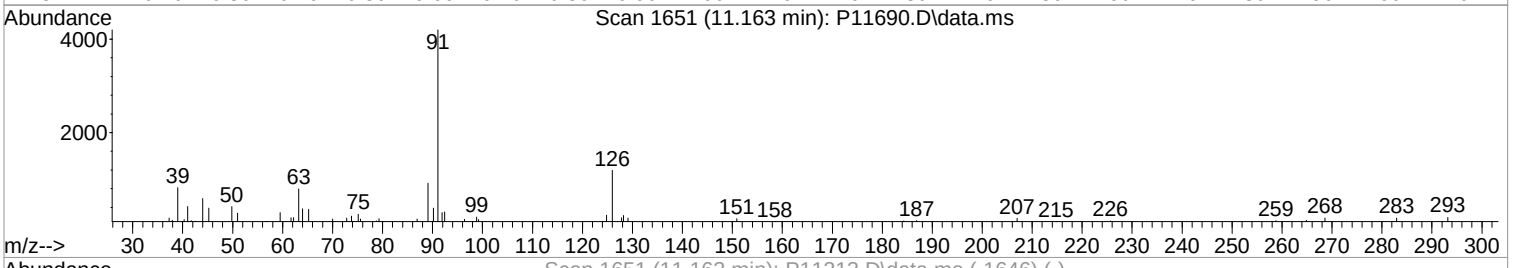
09/01/17

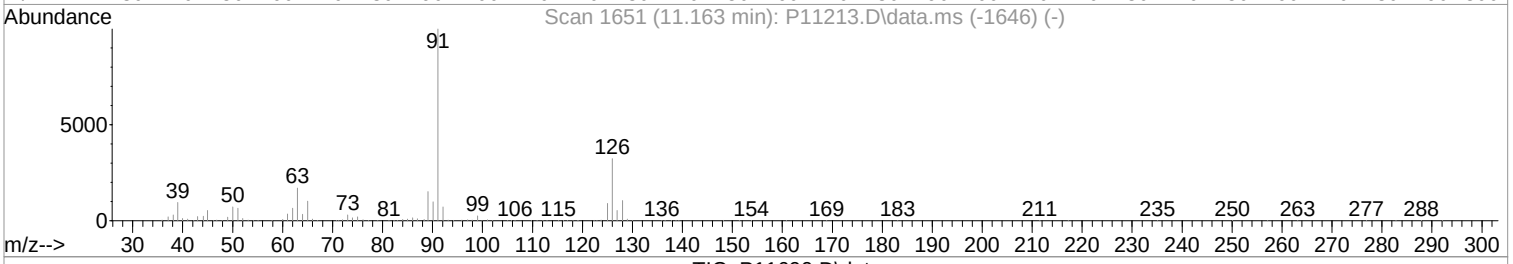
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(96) 2-Chlorotoluene

11.163min (+0.000) 0.64 ppb m

response 5411

Ion	Exp%	Act%
91.00	100	100
126.00	32.30	28.38
89.00	15.00	21.88
0.00	0.00	0.00

Manual Integration:

After

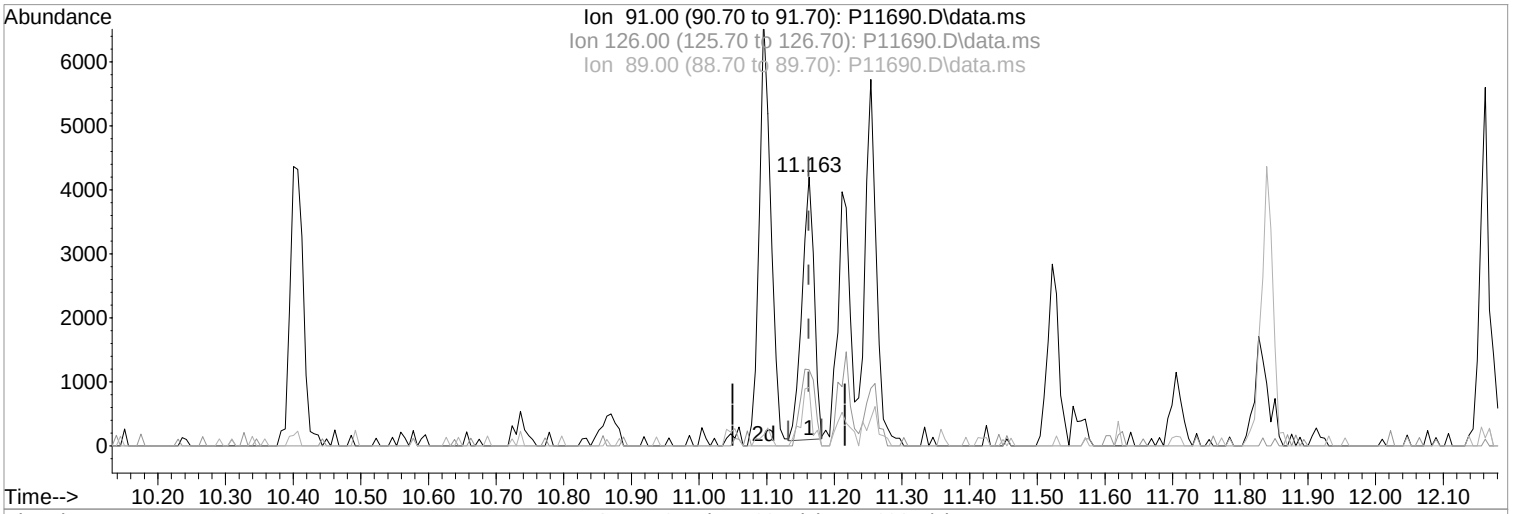
Poor integration.

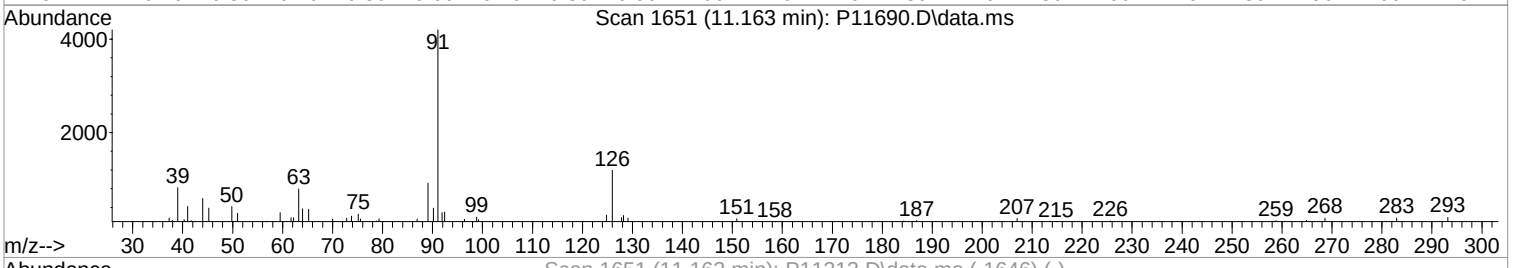
09/01/17

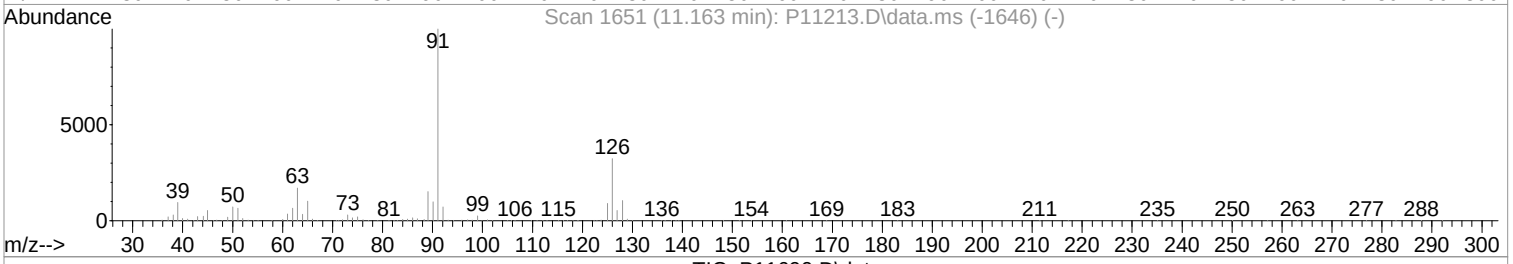
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(96) 2-Chlorotoluene

11.163min (+0.000) 0.60 ppb

response 5087

Ion	Exp%	Act%
91.00	100	100
126.00	32.30	28.38
89.00	15.00	21.88
0.00	0.00	0.00

Manual Integration:

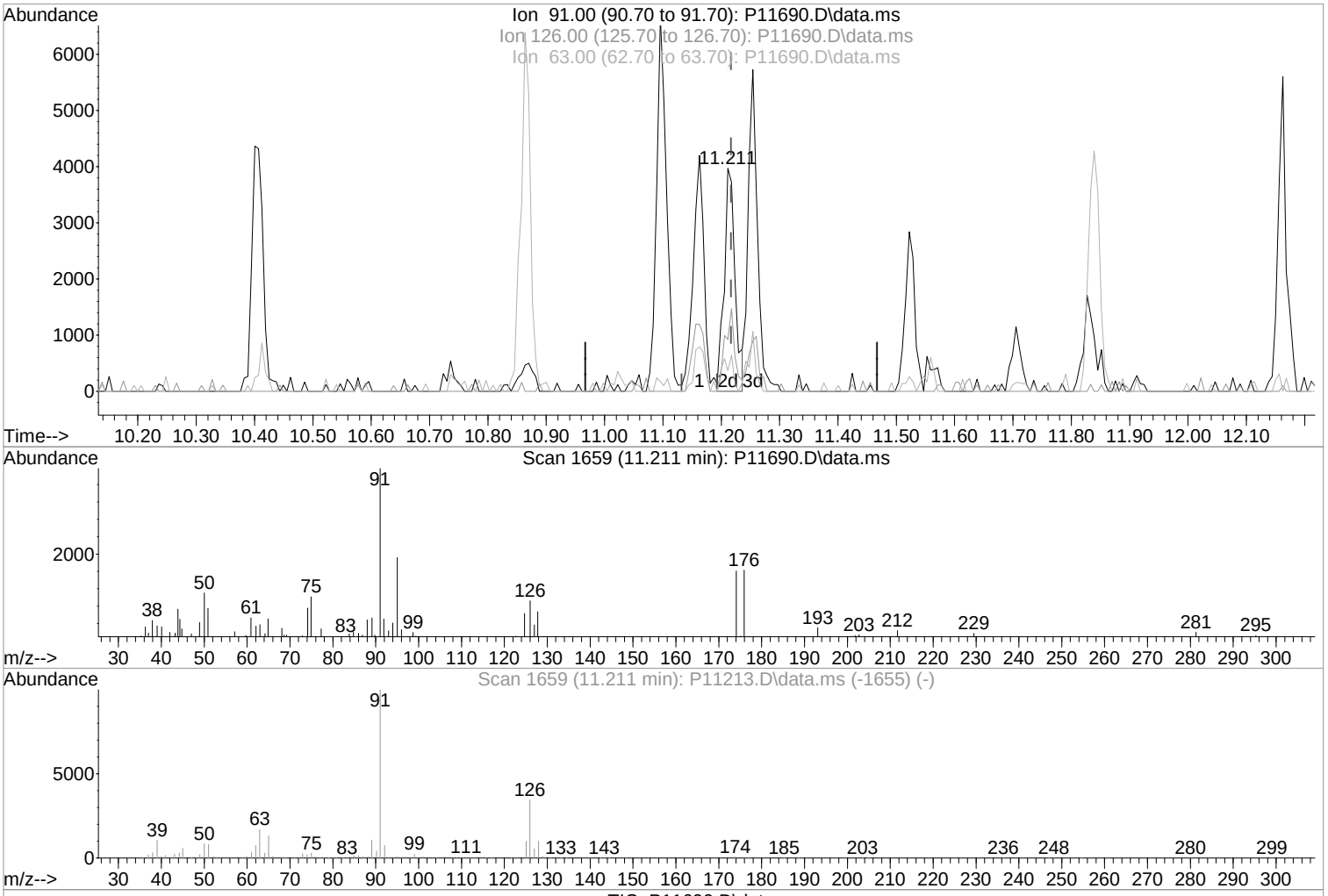
Before

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(97) 3-Chlorotoluene

11.211min (-0.006) 0.59 ppb m

response 5166

Ion	Exp%	Act%
91.00	100	100
126.00	34.50	23.29#
63.00	16.90	9.37#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

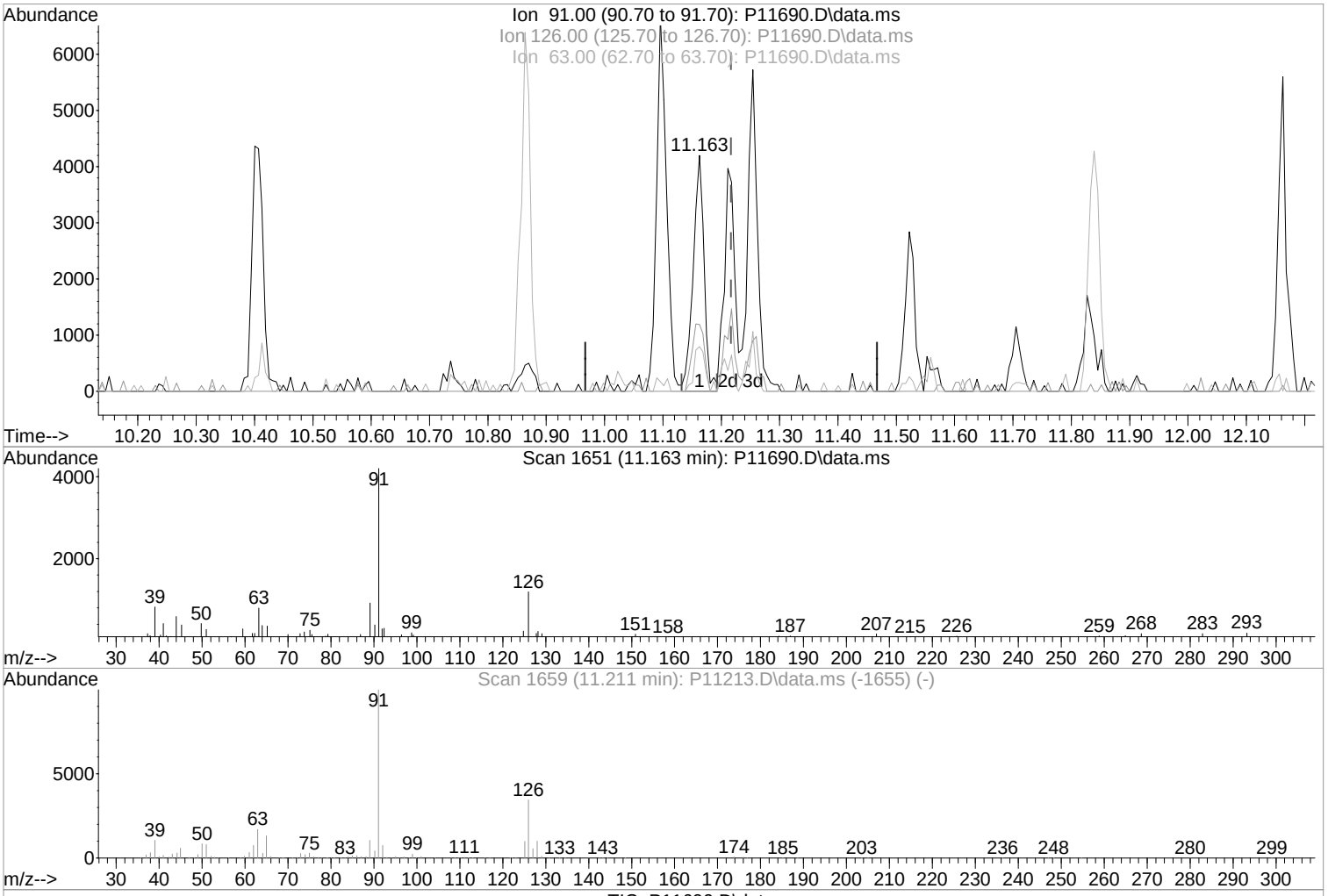
09/01/17

1st BA 09/01/17
2nd 09/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11690.D\data.ms

(97) 3-Chlorotoluene

11.163min (-0.055) 0.62 ppb

response 5512

Ion	Exp%	Act%
91.00	100	100
126.00	34.50	28.38
63.00	16.90	18.93
0.00	0.00	0.00

Manual Integration:

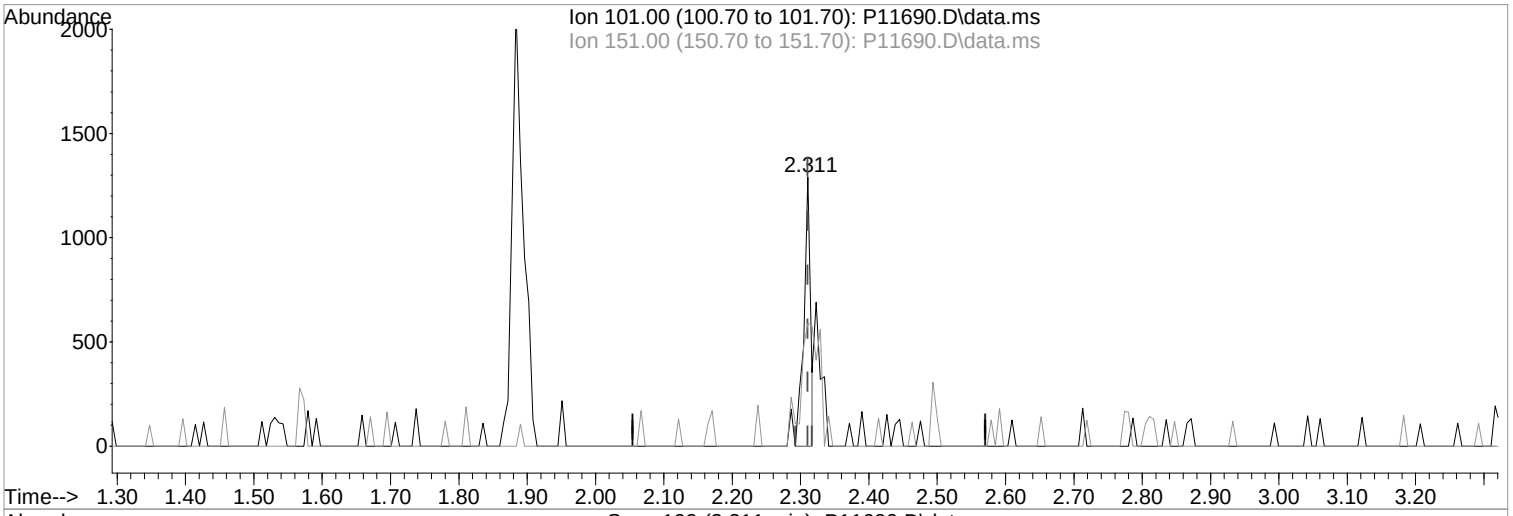
Before

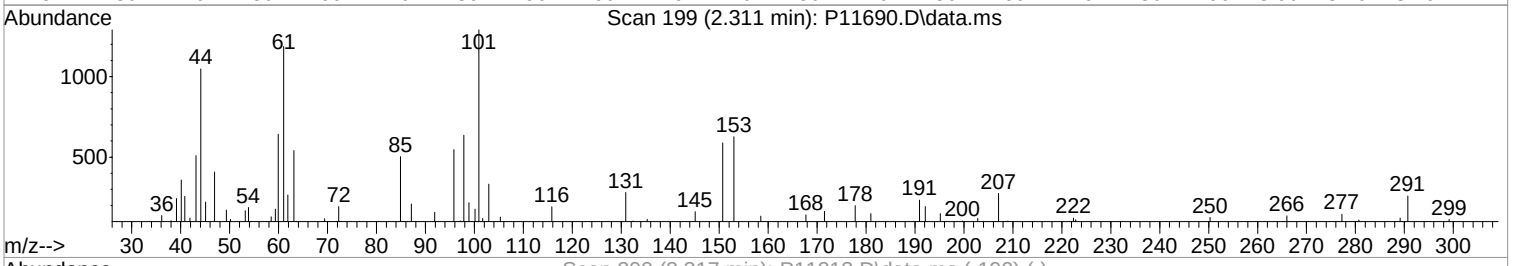
09/01/17

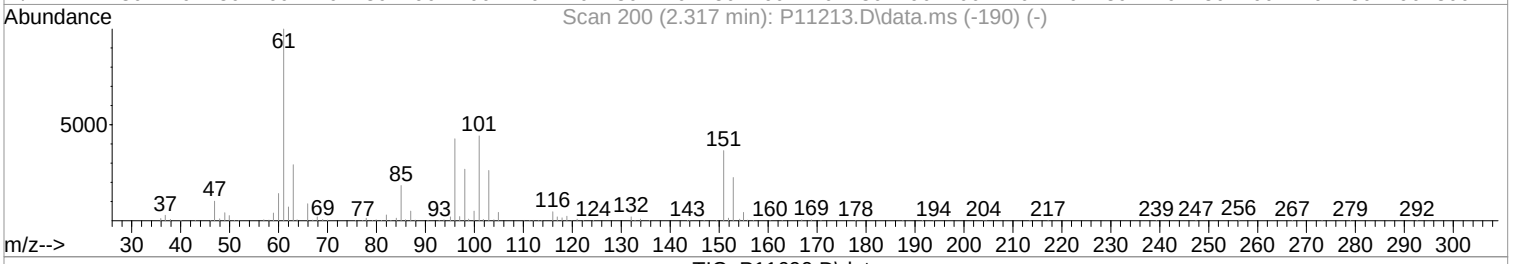
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:01:01 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11690.D\data.ms

(14) Freon 113 (P)

2.311min (+0.000) 0.38 ppb

response 877

Ion	Exp%	Act%
101.00	100	100
151.00	82.70	41.77#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/01/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:20:58 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	239504	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	392503	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	347905	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	171683	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	105467	44.49	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 88.98%#				
48) surr1,1,2-dichloroetha...	5.773	65	176311	48.56	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.12%				
65) SURR3,Toluene-d8	8.291	98	521971	53.26	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.52%				
70) SURR2,BFB	10.864	95	198737	52.41	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	2074	0.58	ppb		90
3) Chloromethane	1.311	50	3931	0.52	ppb		86
4) Vinyl Chloride	1.384	62	2098	0.40	ppb	#	58
6) Chloroethane	1.689	64	2058	0.74	ppb		65
7) Freon 21	1.835	67	3781	0.70	ppb		86
8) Trichlorofluoromethane	1.884	101	2450	0.64	ppb		87
9) Diethyl Ether	2.116	59	2067	0.41	ppb	#	61
10) Freon 123a	2.122	67	2236	0.64	ppb		93
11) Freon 123	2.177	83	2268	0.63	ppb	#	71
12) Acrolein	2.219	56	3417	2.29	ppb		98
13) 1,1-Diclethene	2.305	96	1620	0.61	ppb	#	50
14) Freon 113	2.311	101	1369m	0.59	ppb		
15) Acetone	2.359	43	2163	0.78	ppb		78
16) 2-Propanol	2.487	45	5318	7.96	ppb		89
18) Carbon Disulfide	2.500	76	3945	0.49	ppb		90
19) Acetonitrile	2.591	40	1534m	2.77	ppb		
20) Allyl Chloride	2.640	76	757	0.58	ppb	#	37
21) Methyl Acetate	2.658	43	3963	0.50	ppb		91
22) Methylene Chloride	2.762	84	1470	0.52	ppb	#	41
23) TBA	2.884	59	9010	8.81	ppb		98
24) Acrylonitrile	3.012	53	6588	1.92	ppb		94
25) Methyl-t-Butyl Ether	3.054	73	5680	0.60	ppb		87
26) trans-1,2-Dichloroethene	3.036	96	1503	0.53	ppb	#	50
28) 1,1-Diclethane	3.548	63	3329	0.46	ppb		91
30) DIPE	3.670	45	8447	0.48	ppb	#	75
31) 2-Chloro-1,3-Butadiene	3.664	53	3855	0.46	ppb		82
32) ETBE	4.194	59	6488	0.39	ppb		71
33) 2,2-Dichloropropane	4.359	77	3135m	0.79	ppb		
34) cis-1,2-Dichloroethene	4.390	96	1545m	0.50	ppb		
36) Propionitrile	4.505	54	3120	2.22	ppb	#	43
37) Bromochloromethane	4.768	130	962m	0.52	ppb		
38) Methacrylonitrile	4.780	67	1233m	0.60	ppb		
40) Chloroform	4.944	83	3219m	0.72	ppb		
41) 1,1,1-Trichloroethane	5.255	97	1885m	0.46	ppb		
42) TAME	6.090	73	5548	0.59	ppb		93
46) Carbontetrachloride	5.530	117	1576m	0.48	ppb		
47) 1,1-Dichloropropene	5.548	75	2174m	0.65	ppb		
49) Benzene	5.853	78	6682	0.64	ppb		92
50) 1,2-Dichloroethane	5.883	62	2790	0.54	ppb		83

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:20:58 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	Iso-Butyl Alcohol	5.859	43	4622	10.06	ppb		89
52)	n-Heptane	6.340	43	3253	0.48	ppb		95
53)	1-Butanol	6.840	56	5408	17.86	ppb	#	61
54)	Trichloroethene	6.804	130	1522	0.54	ppb	#	87
55)	Methylcyclohexane	7.035	55	4351	0.59	ppb		89
56)	1,2-Diclpropane	7.084	63	2142	0.49	ppb		81
57)	Dibromomethane	7.224	93	946	0.52	ppb	#	68
58)	1,4-Dioxane	7.285	88	732	11.89	ppb	#	49
59)	Methyl Methacrylate	7.310	69	1460m	0.52	ppb		
60)	Bromodichloromethane	7.444	83	1638	0.50	ppb		84
61)	2-Nitropropane	7.724	41	1499m	1.01	ppb		
62)	2-Chloroethylvinyl Ether	7.864	63	683	0.22	ppb		61
63)	cis-1,3-Dichloropropene	7.999	75	2207	0.49	ppb	#	34
64)	4-Methyl-2-pentanone	8.200	43	3413	0.51	ppb	#	71
66)	Toluene	8.370	91	6308	0.53	ppb		98
67)	trans-1,3-Dichloropropene	8.633	75	1921	0.46	ppb		84
68)	Ethyl Methacrylate	8.785	69	2605	0.57	ppb	#	68
69)	1,1,2-Trichloroethane	8.822	97	1427m	0.52	ppb		
72)	Tetrachloroethene	8.962	164	1098	0.54	ppb	#	74
73)	2-Hexanone	9.120	43	2910m	0.58	ppb		
74)	1,3-Dichloropropane	8.992	76	2782	0.62	ppb	#	84
75)	Dibromochloromethane	9.218	129	1336	0.51	ppb		92
76)	N-Butyl Acetate	9.279	43	4240	0.41	ppb		96
77)	1,2-Dibromoethane	9.322	107	1310	0.54	ppb		84
78)	Chlorobenzene	9.815	112	4038	0.56	ppb		76
79)	3-CBTF	9.834	180	2365	0.64	ppb		95
80)	4-CBTF	9.888	180	1919	0.59	ppb		92
81)	1,1,1,2-Tetrachloroethane	9.895	131	1276m	0.48	ppb		
82)	Ethylbenzene	9.937	106	2002	0.52	ppb		90
83)	(m+p)Xylene	10.047	106	5877	1.25	ppb	#	69
84)	o-Xylene	10.413	106	3079	0.63	ppb	#	37
85)	Styrene	10.425	104	3496	0.44	ppb		94
88)	2-CBTF	10.657	180	2019	0.59	ppb	#	74
89)	Isopropylbenzene	10.742	105	6572	0.57	ppb		88
90)	Cyclohexanone	10.803	55	11659	10.43	ppb		85
91)	trans-1,4-Dichloro-2-B...	11.047	53	693	0.38	ppb		85
92)	1,1,2,2-Tetrachloroethane	11.004	83	2313	0.63	ppb		92
93)	Bromobenzene	10.986	156	1713	0.58	ppb	#	57
94)	1,2,3-Trichloropropane	11.022	110	813	0.66	ppb	#	21
95)	n-Propylbenzene	11.096	91	8010	0.58	ppb		98
96)	2-Chlorotoluene	11.163	91	5411m	0.64	ppb		
97)	3-Chlorotoluene	11.211	91	5166m	0.59	ppb		
98)	4-Chlorotoluene	11.254	91	6689	0.70	ppb		84
99)	1,3,5-Trimethylbenzene	11.248	105	5295	0.54	ppb		84
100)	tert-Butylbenzene	11.522	119	5535	0.62	ppb		96
101)	1,2,4-Trimethylbenzene	11.565	105	5799	0.58	ppb		98
102)	3,4-DCBTF	11.626	214	1582	0.61	ppb	#	80
103)	sec-Butylbenzene	11.705	105	7142	0.58	ppb		90
104)	p-Isopropyltoluene	11.833	119	5276	0.48	ppb		87
105)	1,3-Dclbenz	11.784	146	3355	0.57	ppb		87
106)	1,4-Dclbenz	11.858	146	3461	0.58	ppb		89
108)	2,5-DCBTF	11.955	214	1884m	0.75	ppb		
109)	n-Butylbenzene	12.162	91	5568	0.55	ppb		89
110)	1,2-Dclbenz	12.162	146	2778	0.50	ppb	#	67
111)	1,2-Dibromo-3-chloropr...	12.790	157	388m	0.37	ppb		
112)	Trielution Dichlorotol...	12.900	125	9777	1.75	ppb	#	87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 09:20:58 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
113) 1,3,5 Trichlorobenzene	12.955	180	2580	0.60	ppb	#	93
114) Coelution Dichlorotoluene	13.235	125	7197	1.14	ppb	#	86
115) 1,2,4-Tcbenzene	13.449	180	2629	0.62	ppb		86
116) Hexachlorobt	13.577	225	1151	0.67	ppb	#	38
117) Naphthalen	13.632	128	7765	0.53	ppb		97
118) 1,2,3-Tclbenzene	13.821	180	2511	0.54	ppb		99
119) 2,4,5-Trichlorotolene	14.400	159	2258	0.56	ppb	#	78
120) 2,3,6-Trichlorotoluene	14.491	159	2324	0.61	ppb	#	85

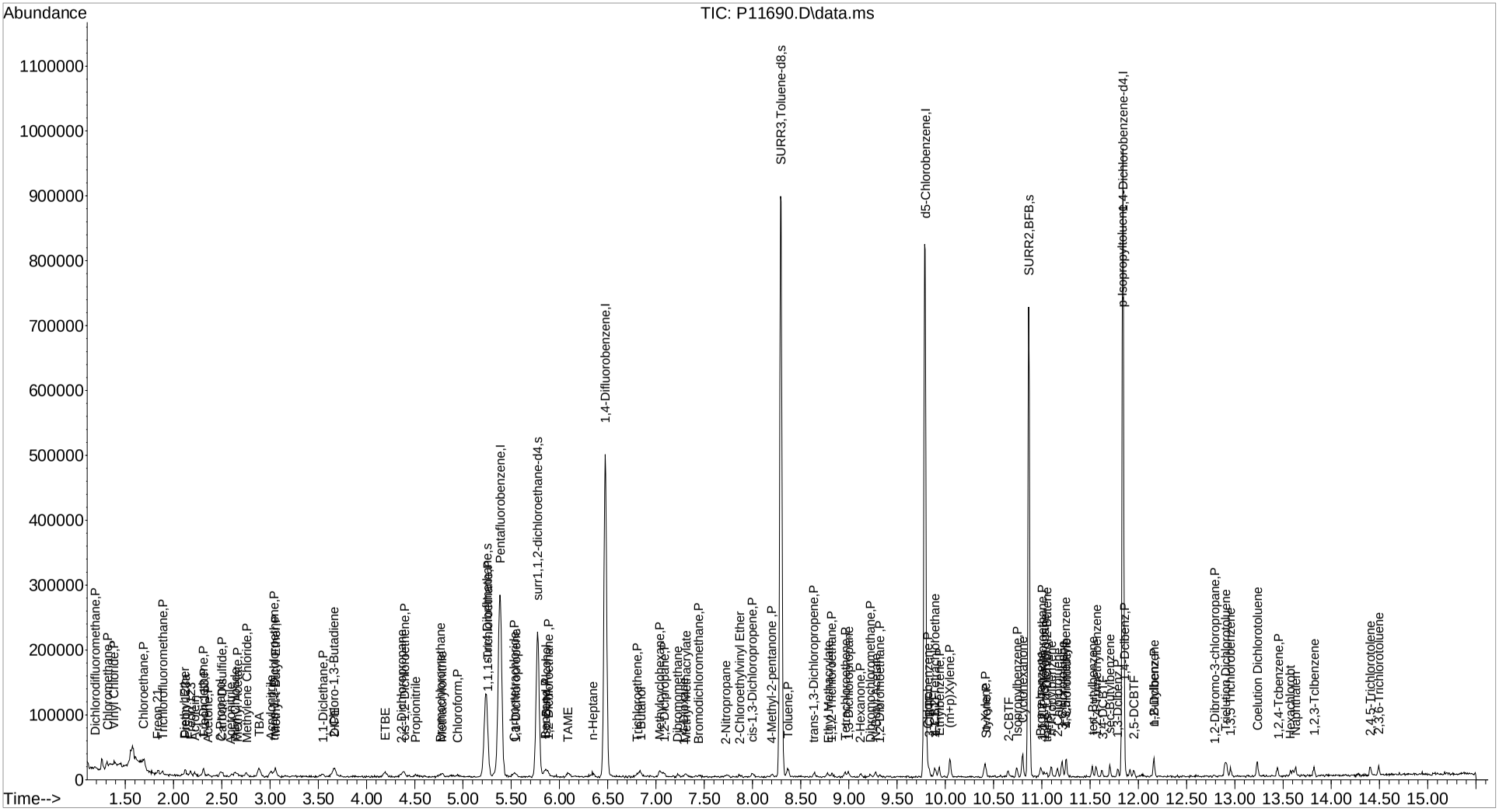
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11690.D
Acq On : 31 Aug 2017 4:58 pm
Operator : B.ALLGEIER
Sample : 0.5ppb Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

1st BA 09/01/17
2nd 09/05/17

Quant Time: Sep 01 09:20:58 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

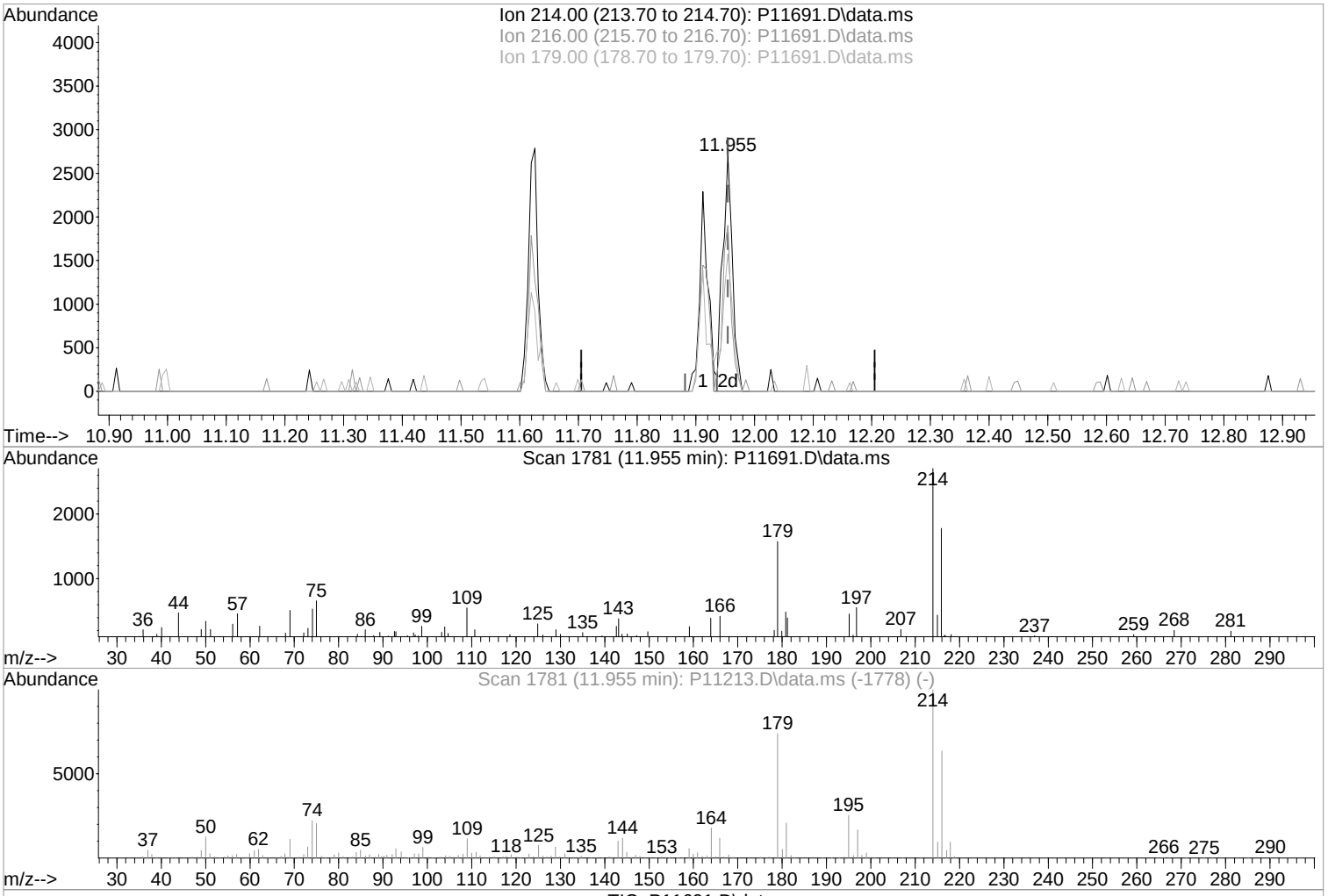


1st BA 09/01/17
2nd 09/05/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11691.D\data.ms

(108) 2,5-DCBTF

11.955min (+0.000) 1.23 ppb m

response 3193

Ion	Exp%	Act%
214.00	100	100
216.00	62.50	65.78
179.00	74.00	58.20#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

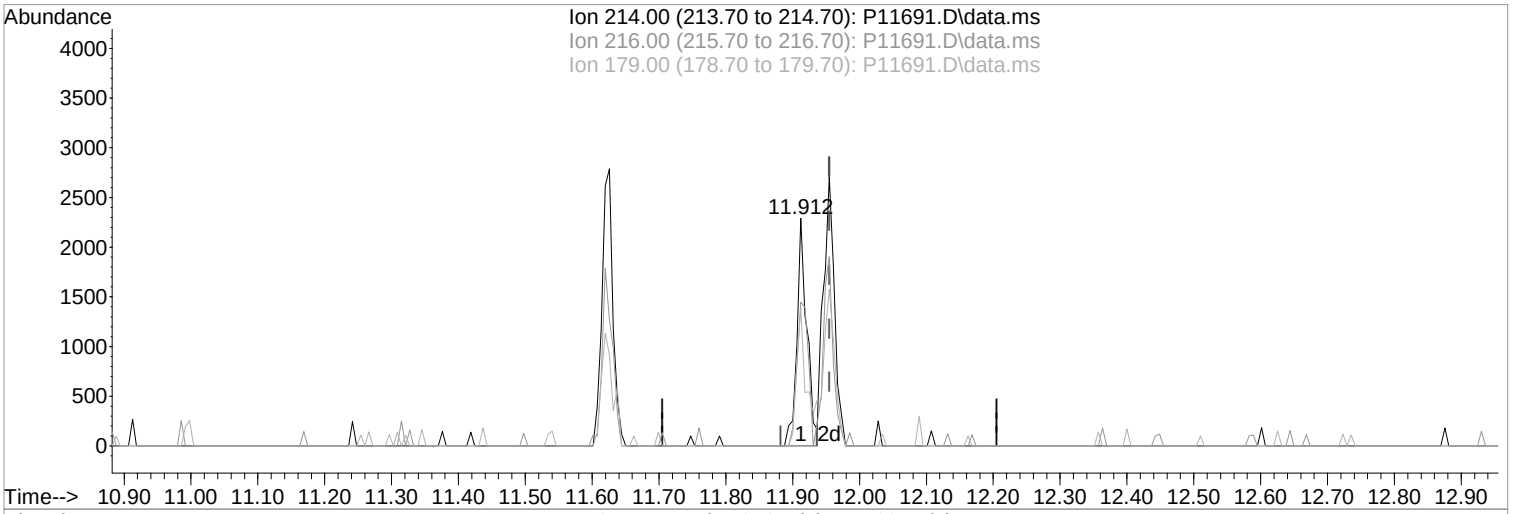
09/01/17

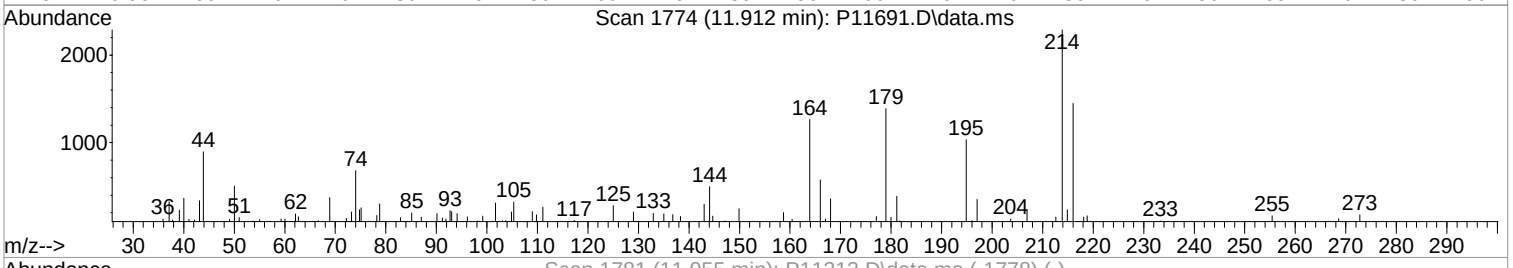
1st BA 09/01/17
2nd 09/05/17

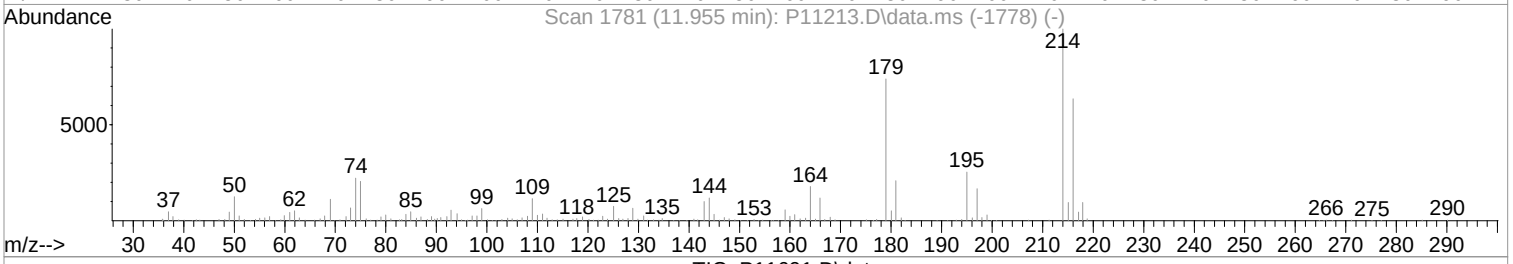
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(108) 2,5-DCBTF

11.912min (-0.043) 0.92 ppb

response 2389

Ion	Exp%	Act%
214.00	100	100
216.00	62.50	63.17
179.00	74.00	60.68
0.00	0.00	0.00

Manual Integration:

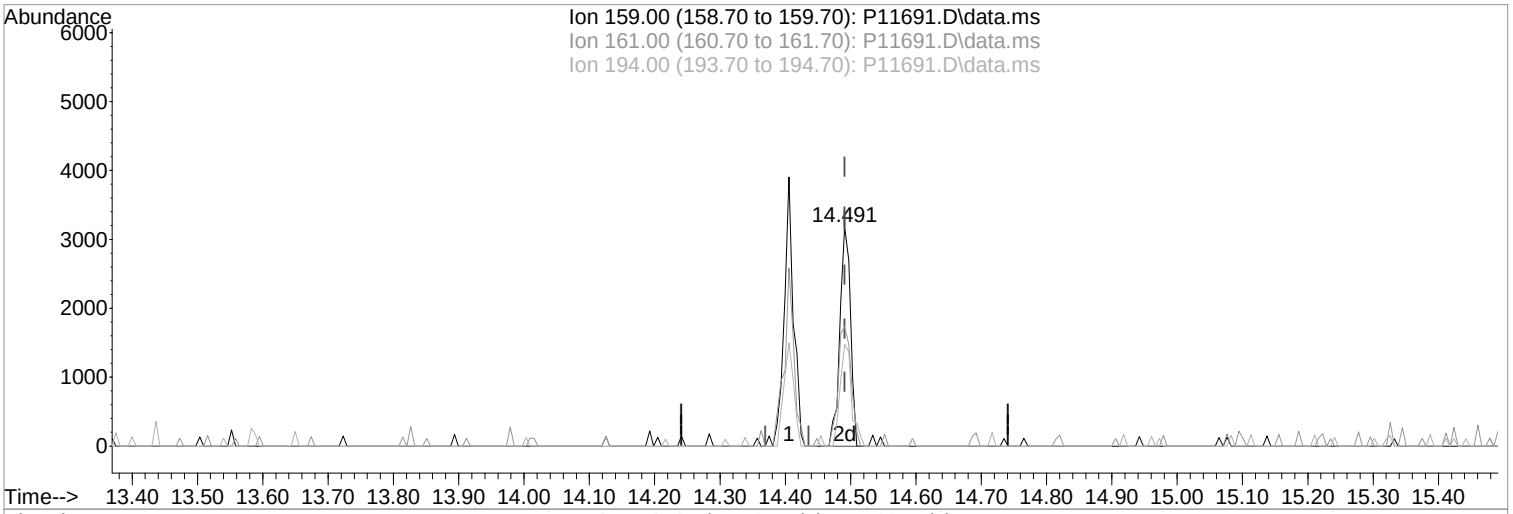
Before

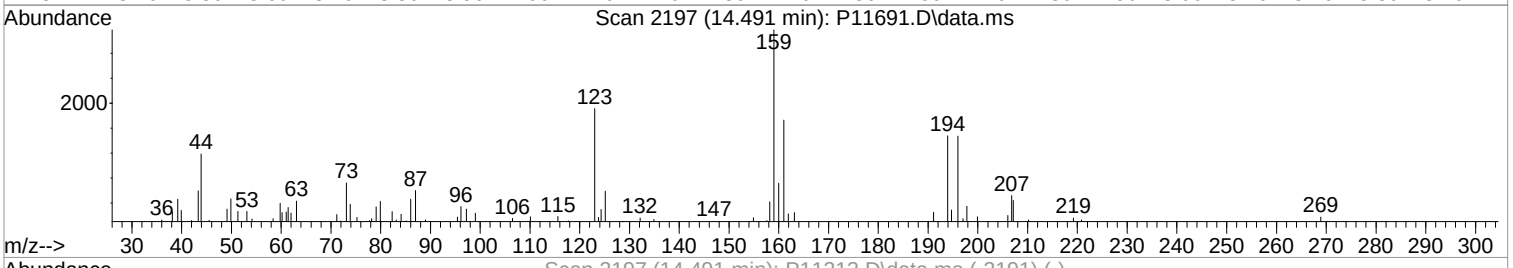
09/01/17

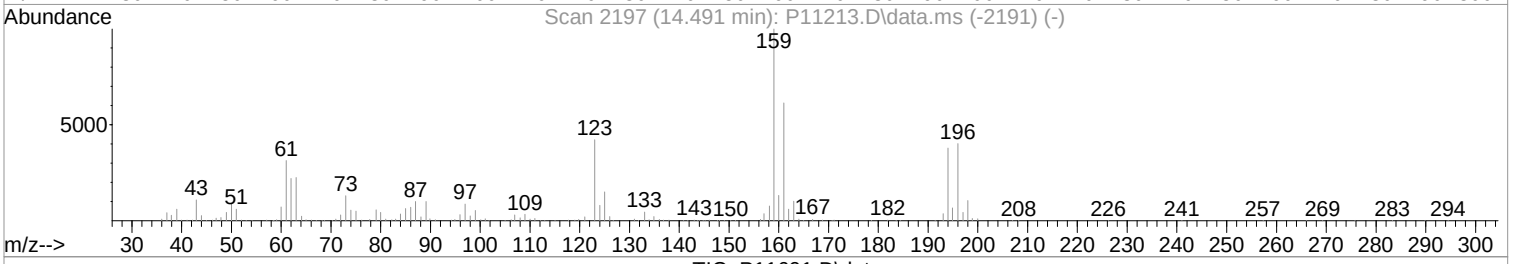
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.491min (+0.000) 0.92 ppb m

response 3619

Ion	Exp%	Act%
159.00	100	100
161.00	61.30	54.41
194.00	37.80	46.41#
0.00	0.00	0.00

Manual Integration:

After

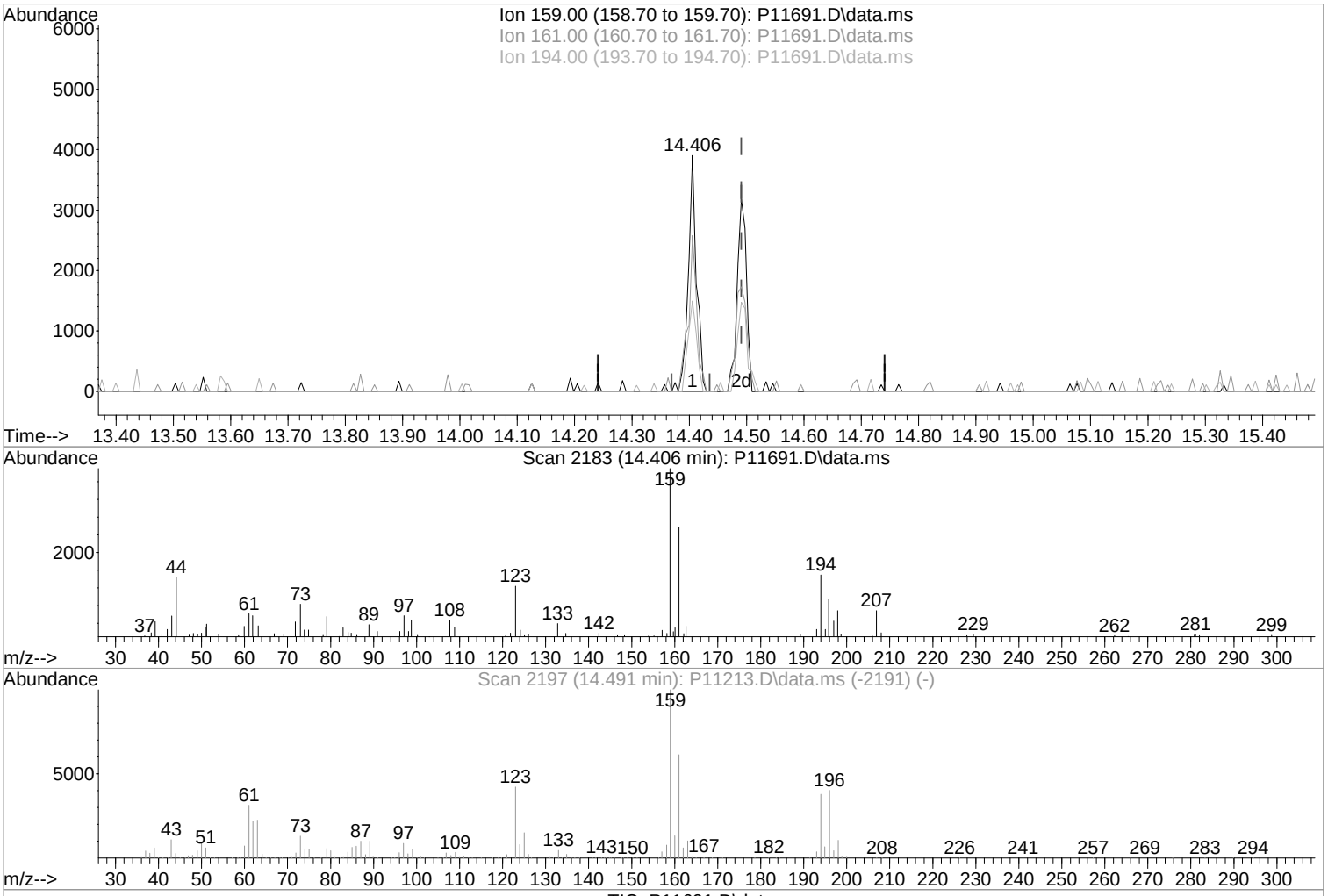
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11691.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.406min (-0.085) 1.00 ppb

response 3923

Ion	Exp%	Act%
159.00	100	100
161.00	61.30	62.66
194.00	37.80	36.39
0.00	0.00	0.00

Manual Integration:

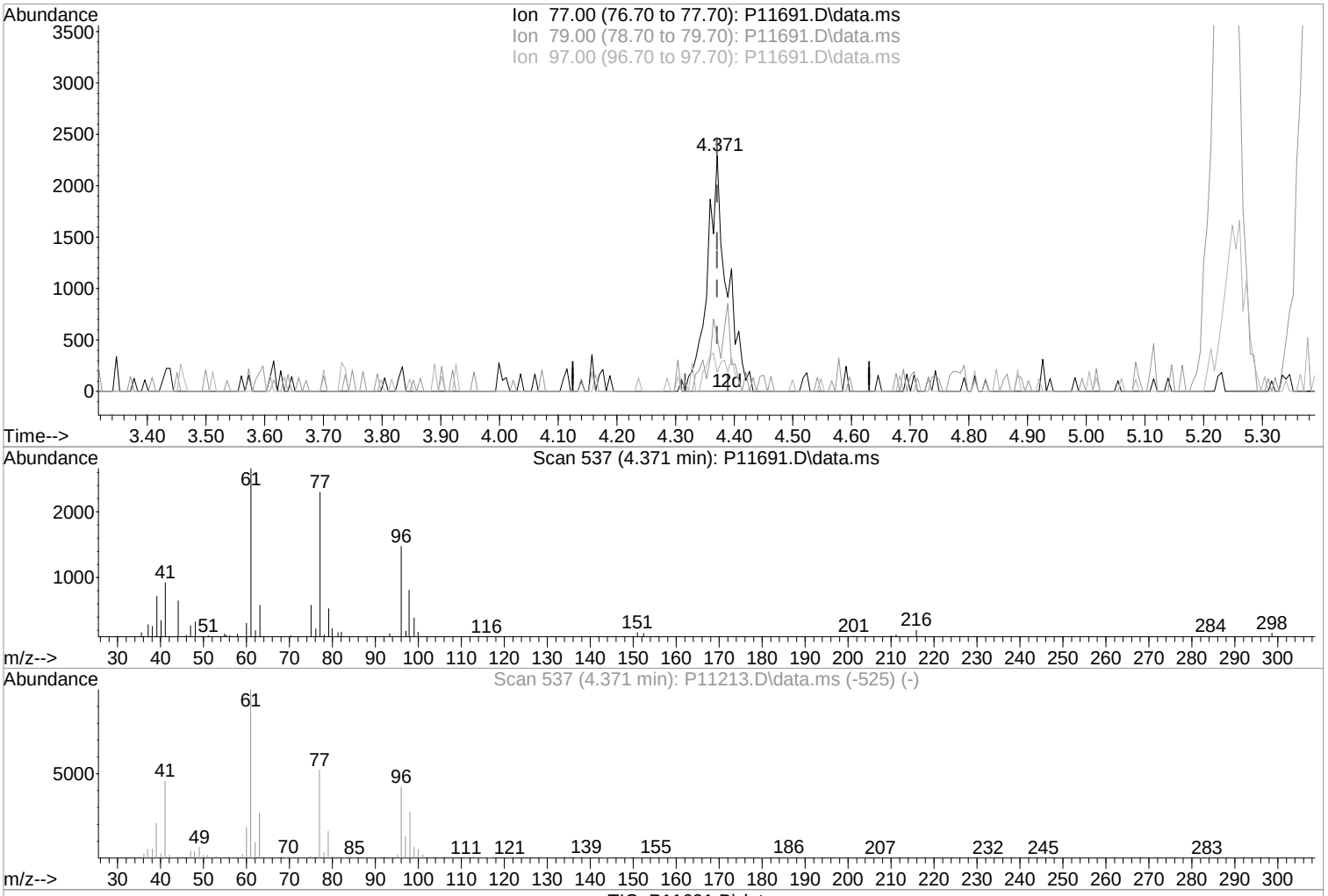
Before

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11691.D\data.ms

(33) 2,2-Dichloropropane

4.371min (+0.000) 1.32 ppb m

response 5352

Ion	Exp%	Act%
77.00	100	100
79.00	30.10	23.00
97.00	24.60	8.06
0.00	0.00	0.00

Manual Integration:

After

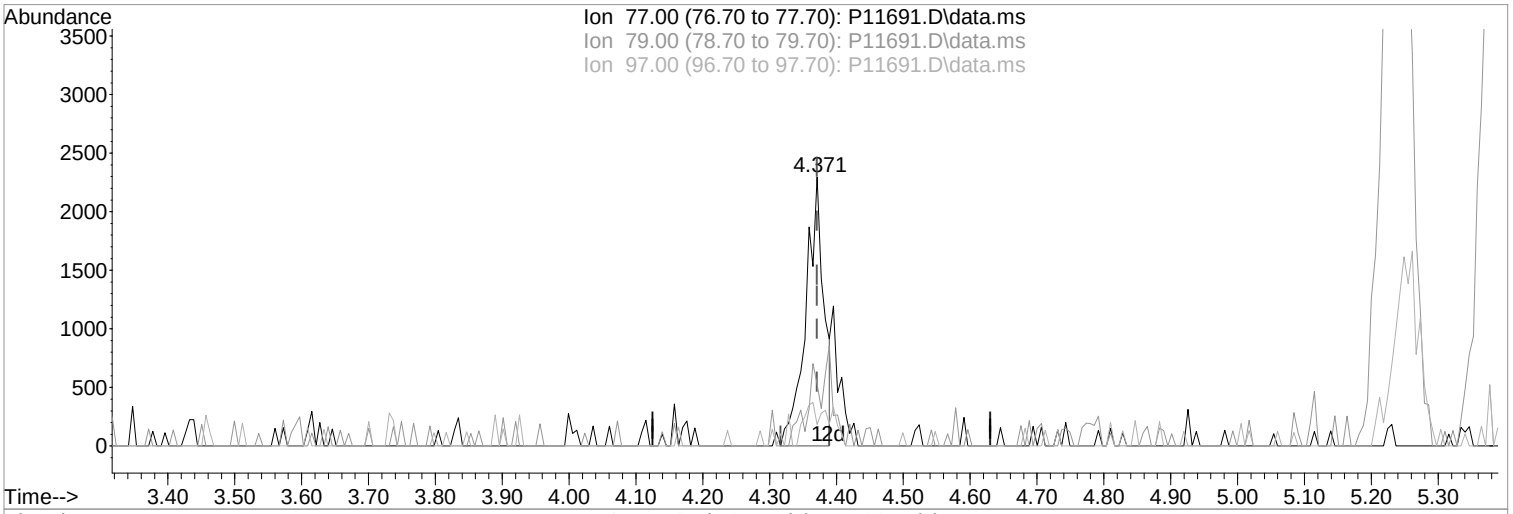
Poor integration.

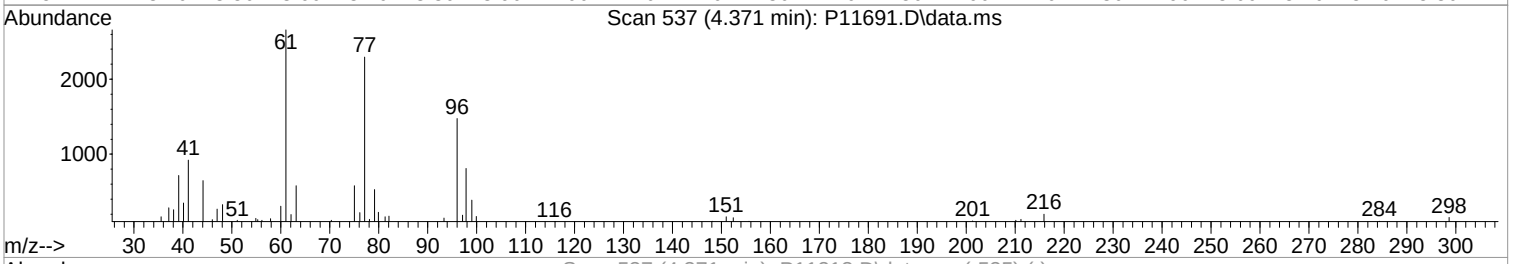
09/01/17

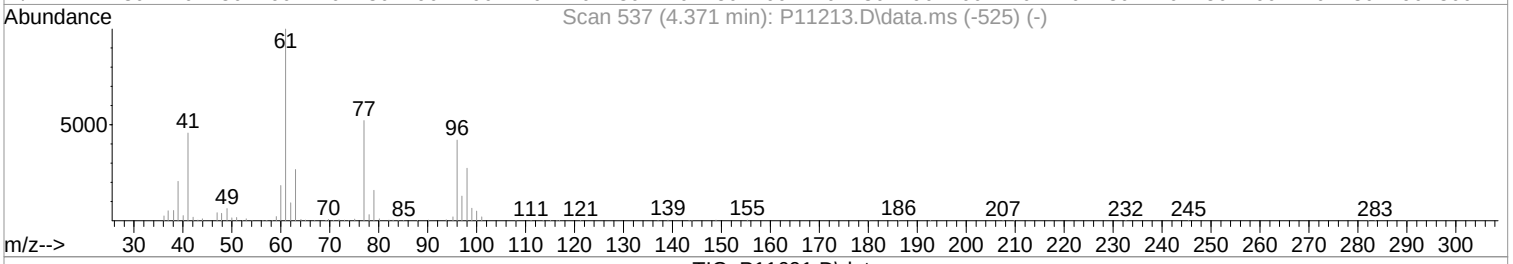
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(33) 2,2-Dichloropropane

4.371min (+0.000) 1.06 ppb

response 4320

Ion	Exp%	Act%
77.00	100	100
79.00	30.10	23.00
97.00	24.60	8.06
0.00	0.00	0.00

Manual Integration:

Before

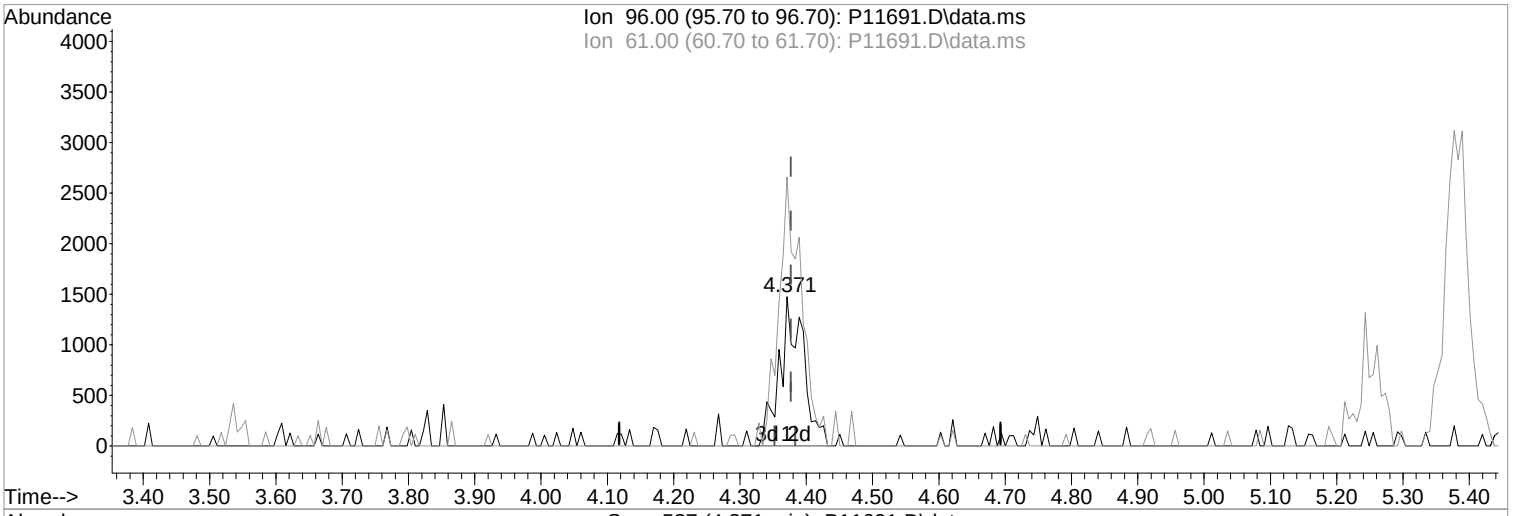
09/01/17

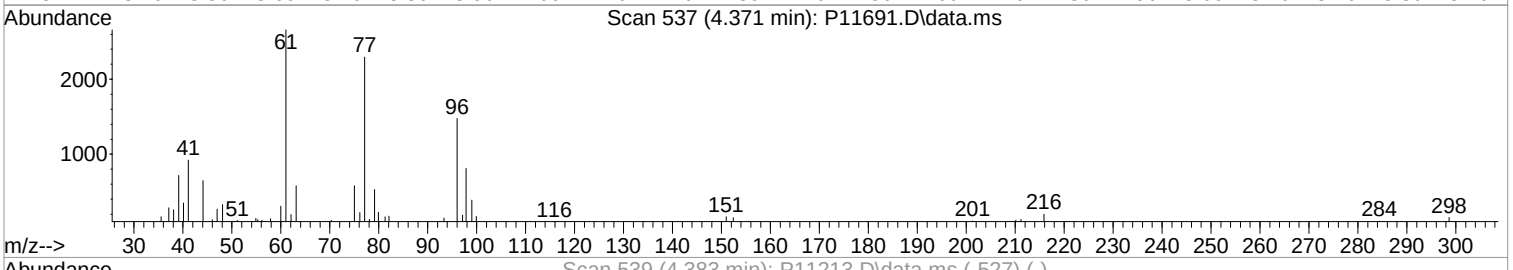
1st BA 09/01/17
2nd 09/05/17

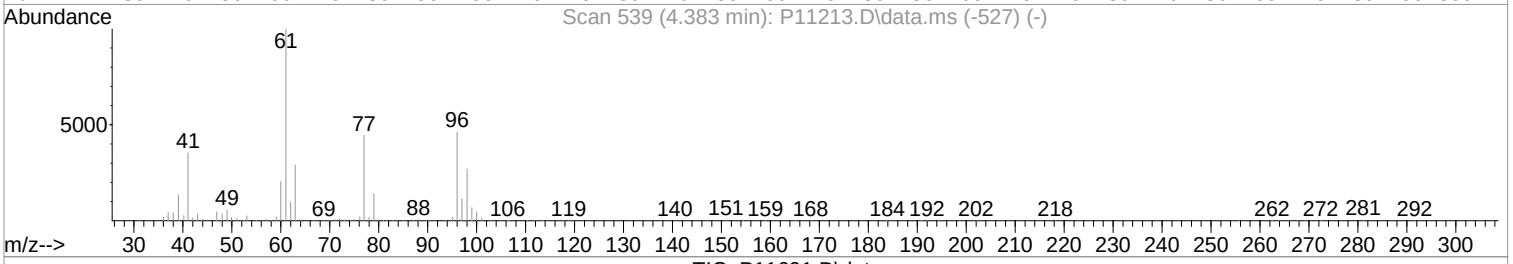
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.371min (-0.006) 1.15 ppb m

response 3655

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	180.09#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

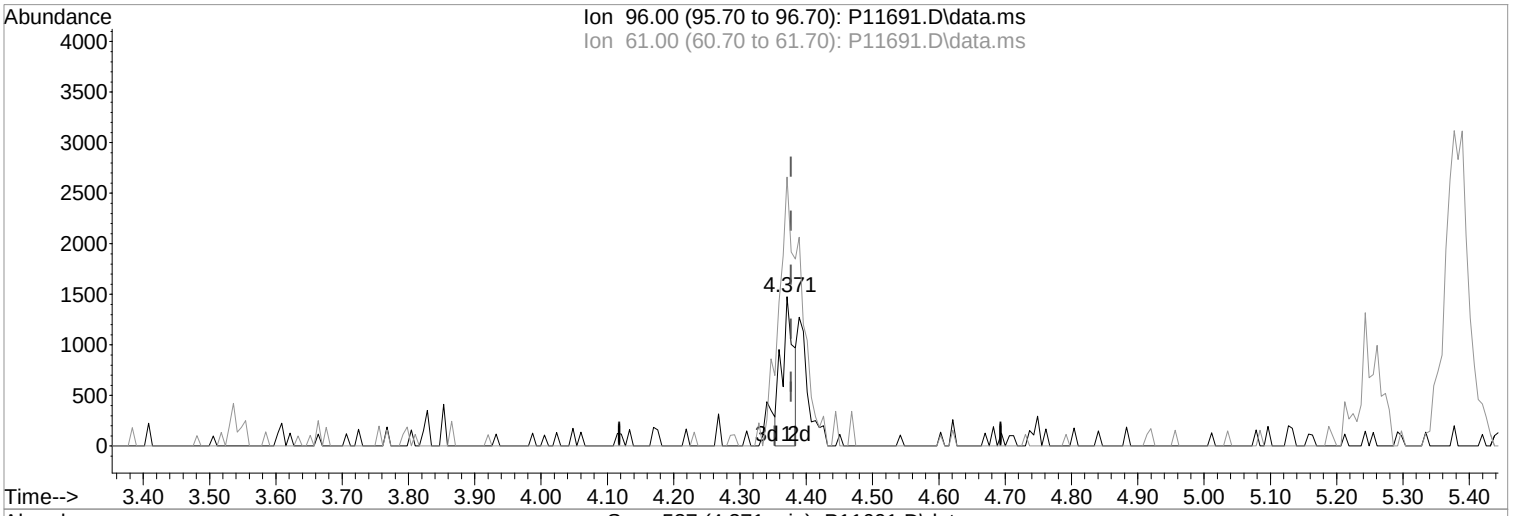
Poor integration.

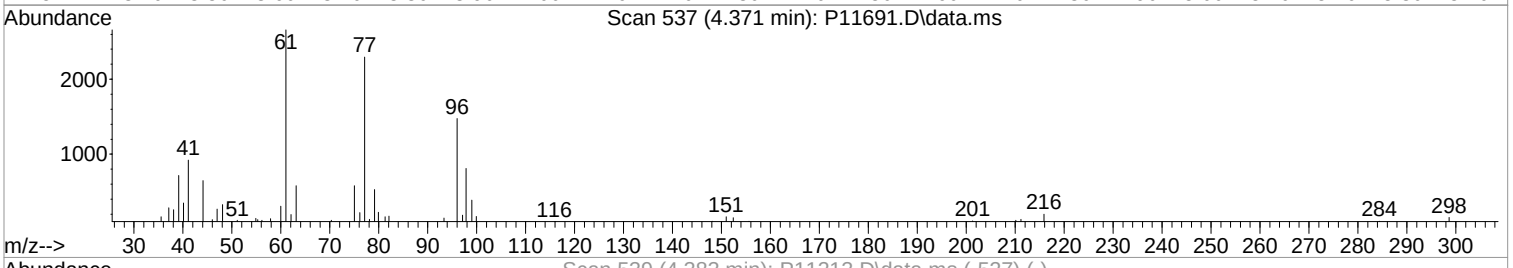
09/01/17

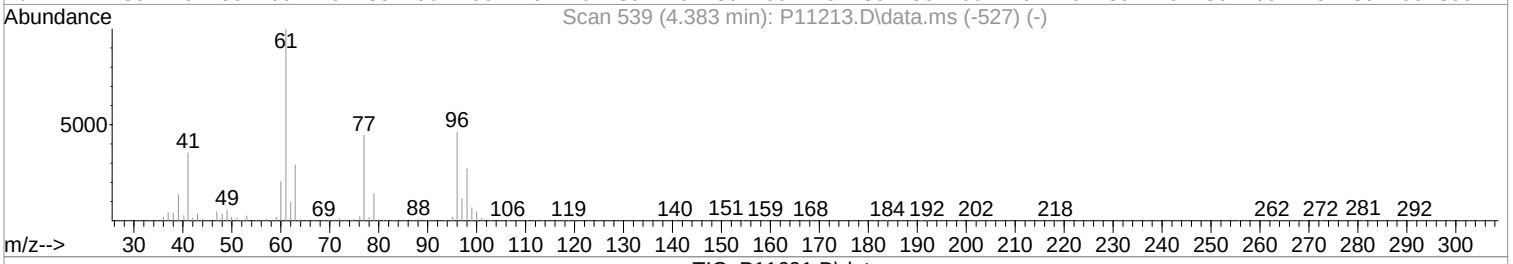
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.371min (-0.006) 0.57 ppb

response 1826

Ion	Exp%	Act%
96.00	100	100
61.00	217.50	180.09#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

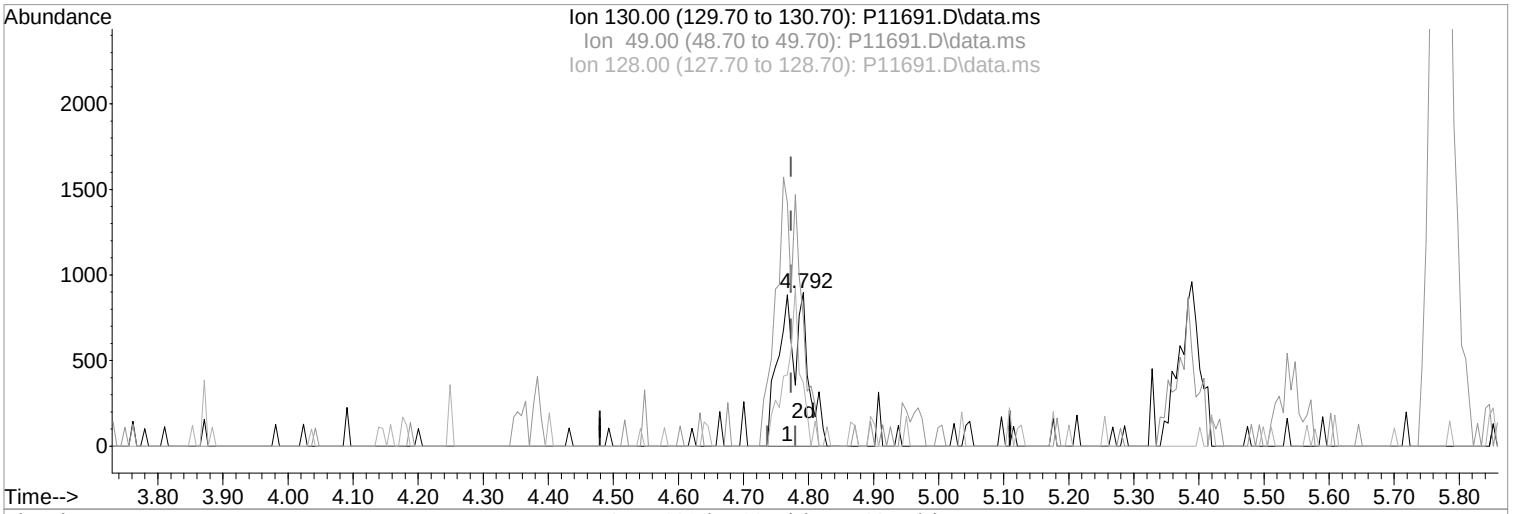
Before

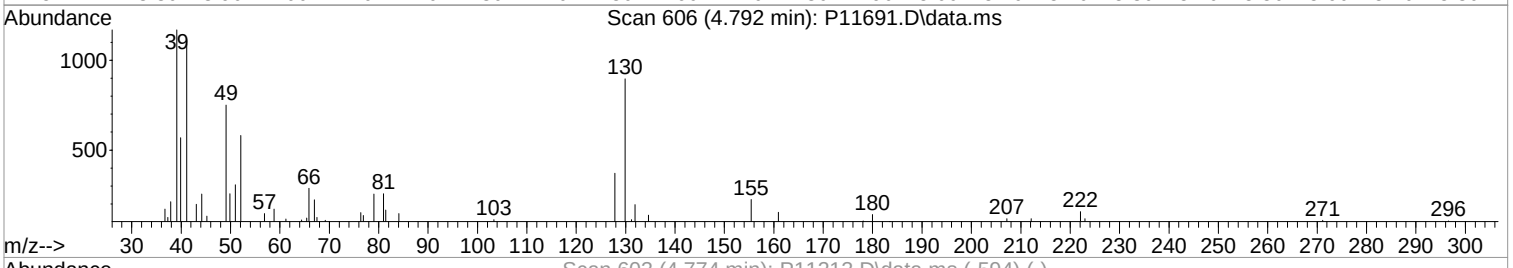
09/01/17

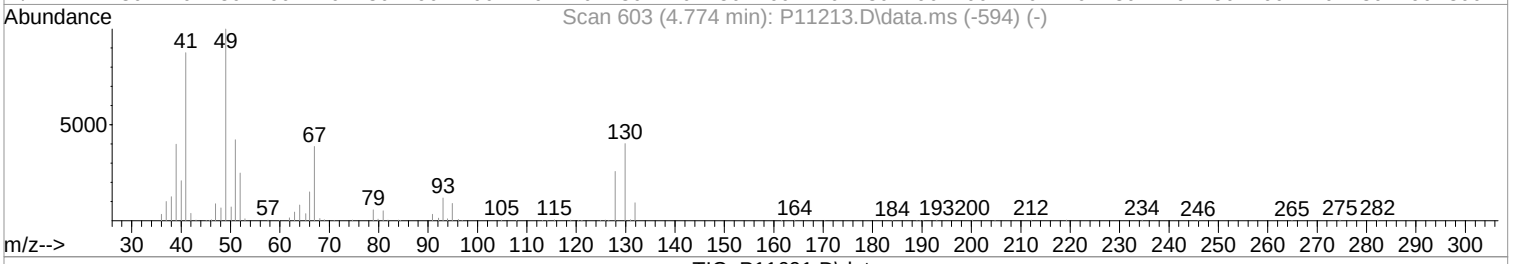
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(37) Bromochloromethane

4.792min (+0.018) 1.33 ppb m

response 2504

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	83.61#
128.00	66.10	41.36#
0.00	0.00	0.00

Manual Integration:

After

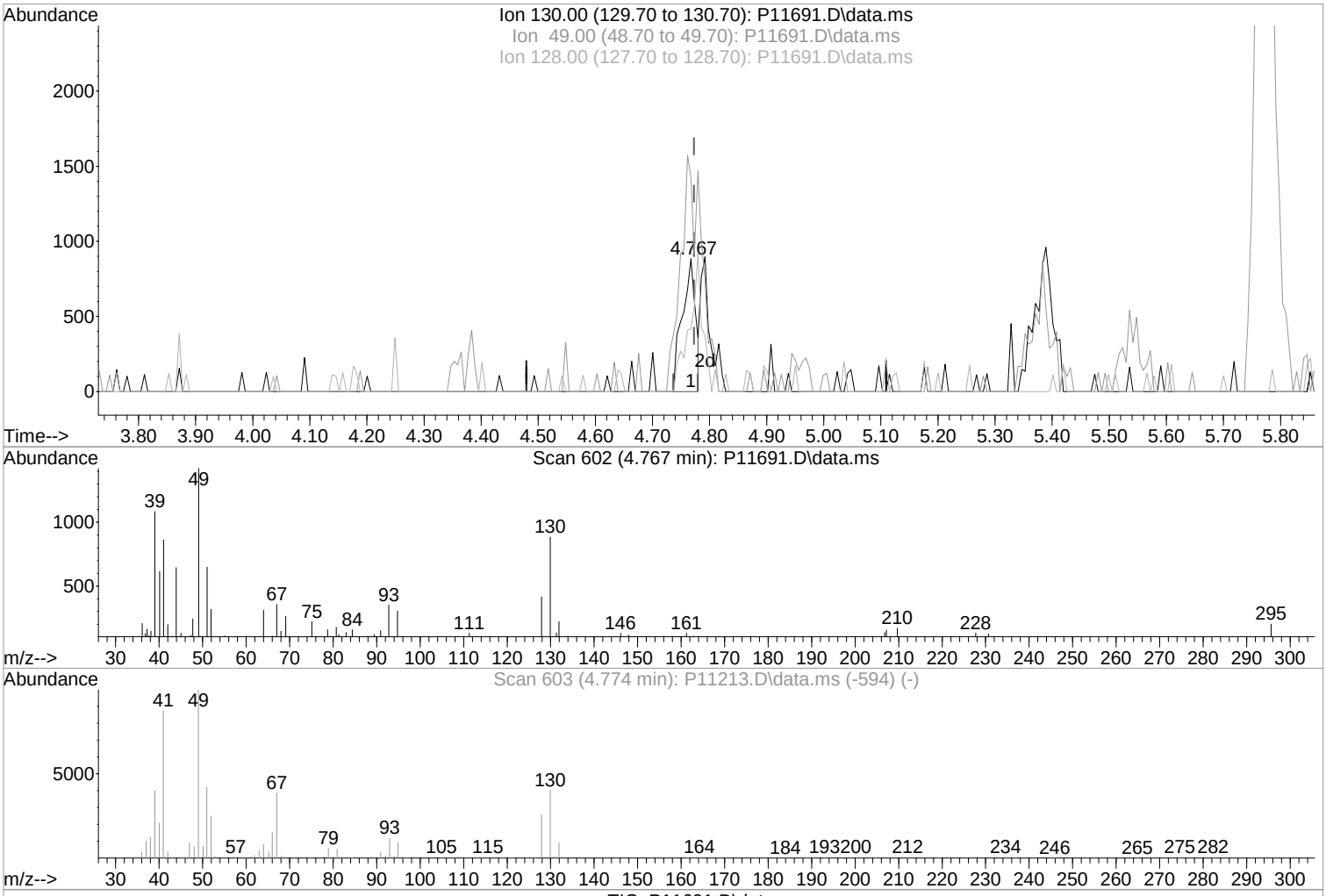
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11691.D\data.ms

(37) Bromochloromethane

4.767min (-0.006) 0.76 ppb

response 1426

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	160.86#
128.00	66.10	47.06
0.00	0.00	0.00

Manual Integration:

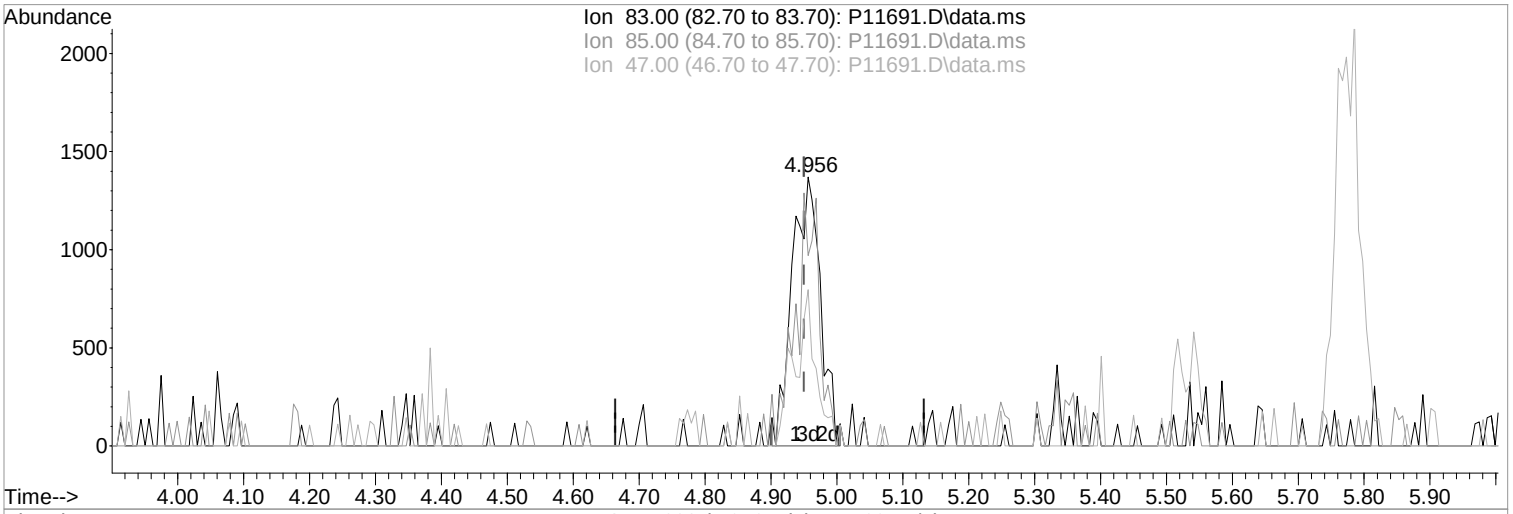
Before

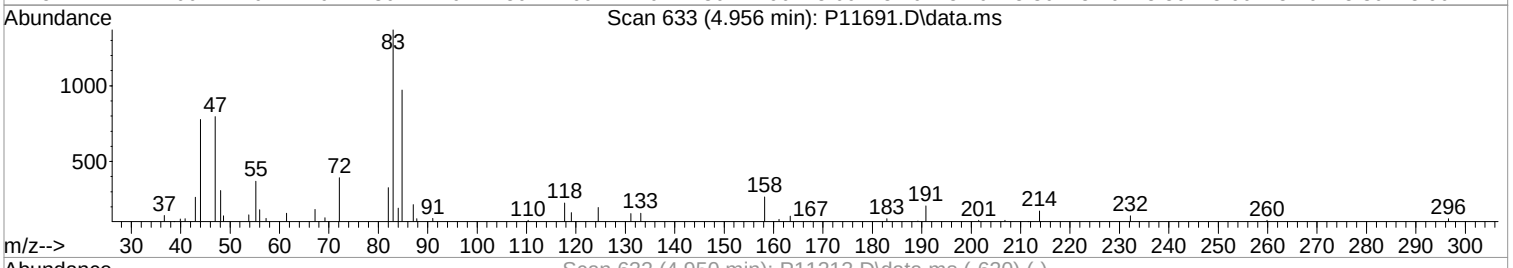
09/01/17

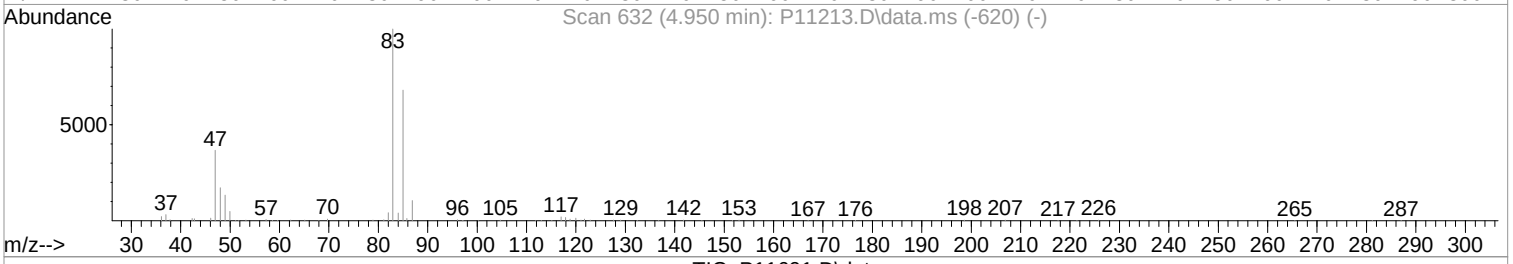
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:34:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(40) Chloroform (P)

4.956min (+0.006) 0.90 ppb m

response 4097

Ion	Exp%	Act%
83.00	100	100
85.00	68.00	70.88
47.00	36.70	58.18#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

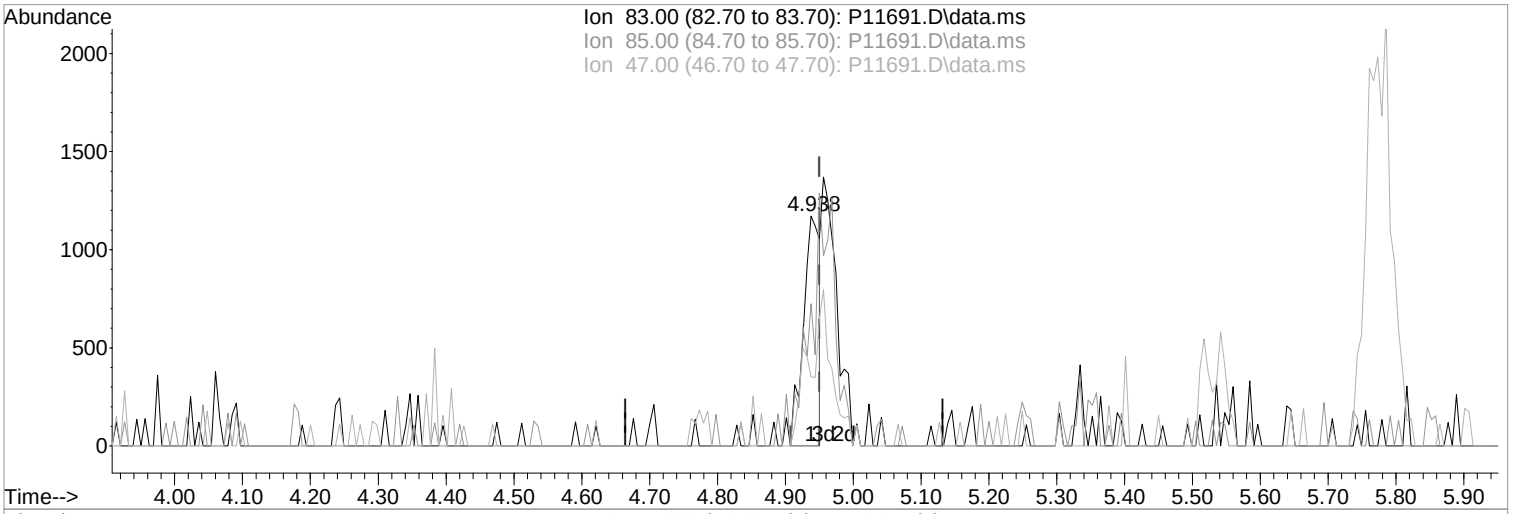
09/01/17

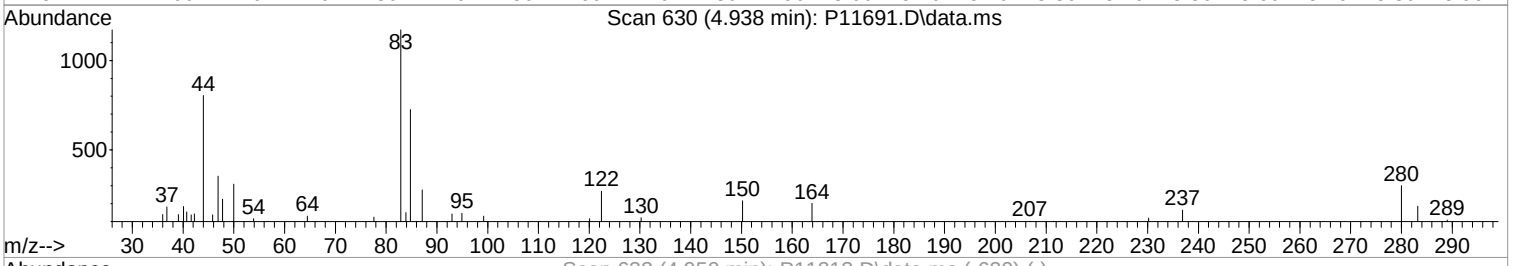
1st BA 09/01/17
2nd 09/05/17

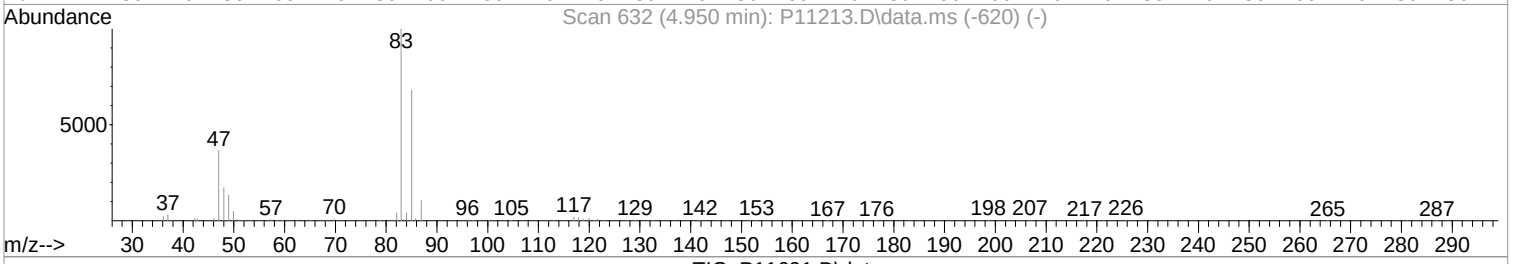
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(40) Chloroform (P)

4.938min (-0.012) 0.43 ppb

response 1975

Ion	Exp%	Act%
83.00	100	100
85.00	68.00	61.86
47.00	36.70	30.12
0.00	0.00	0.00

Manual Integration:

Before

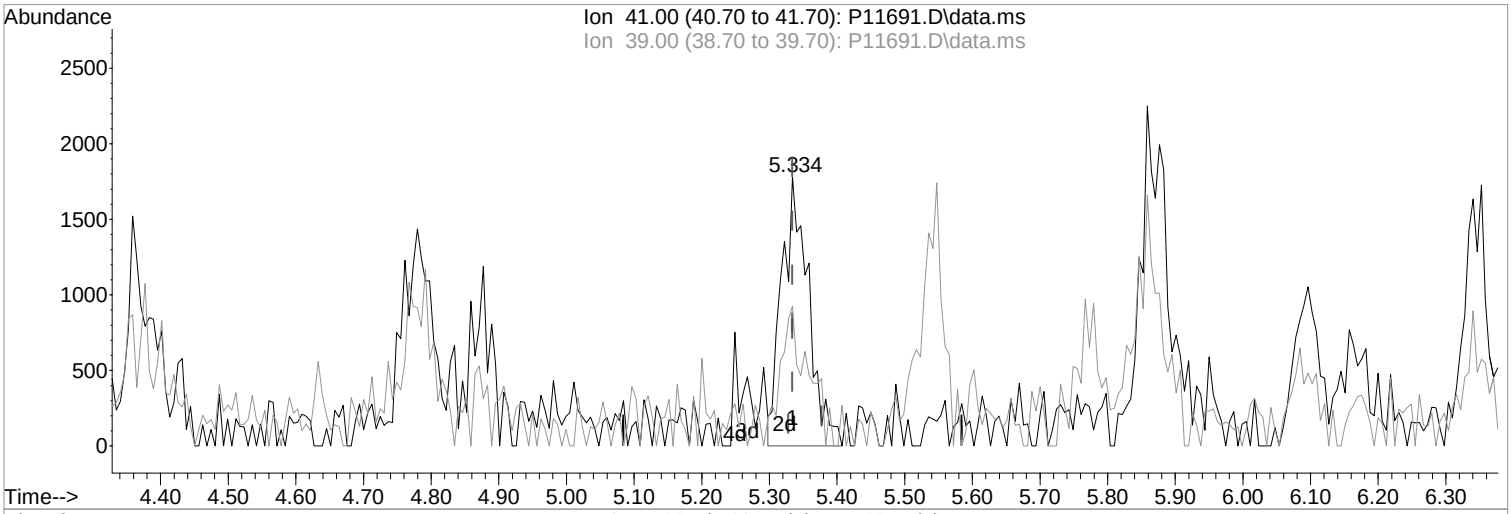
09/01/17

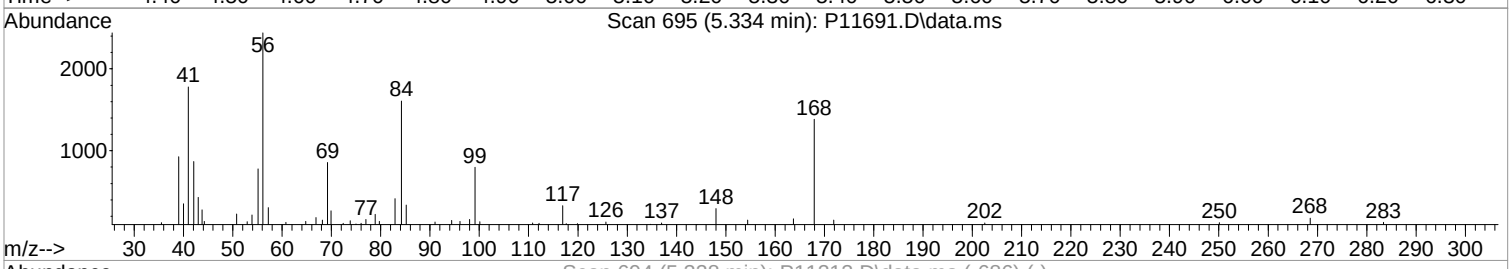
1st BA 09/01/17
2nd 09/05/17

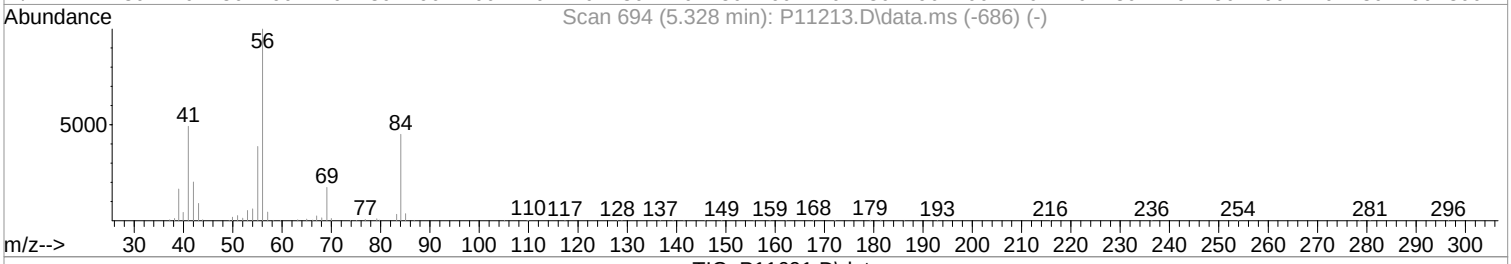
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(44) Cyclohexane (P)

5.334min (+0.000) 1.09 ppb m

response 4863

Ion	Exp%	Act%
41.00	100	100
39.00	33.90	52.08
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

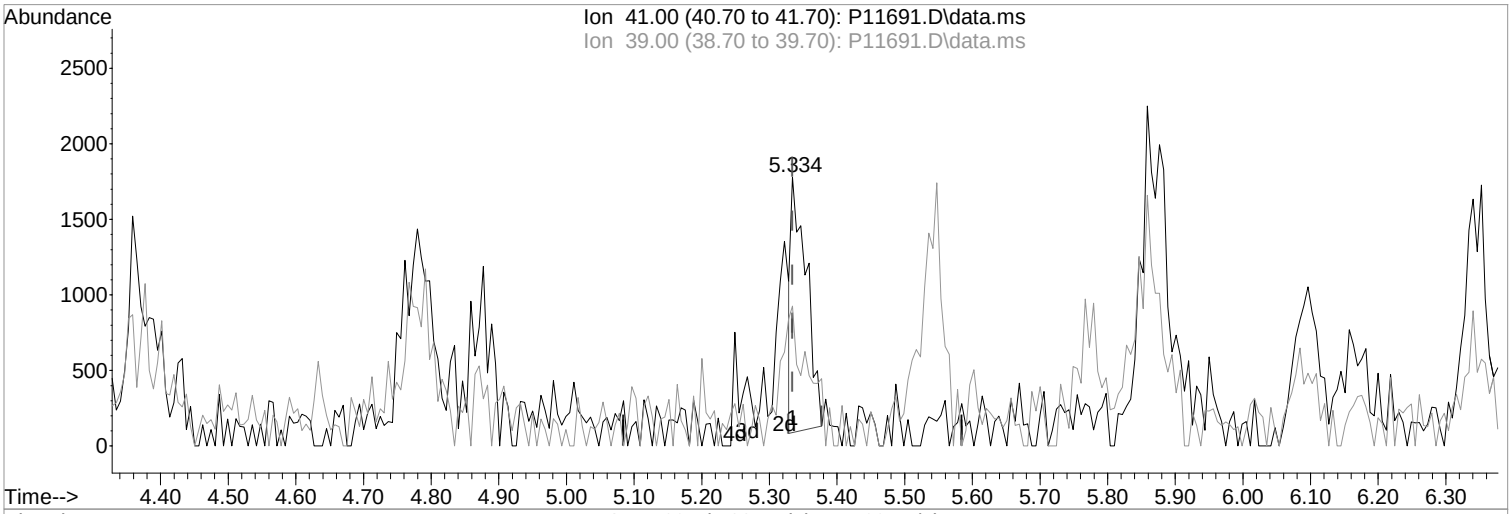
Poor integration.

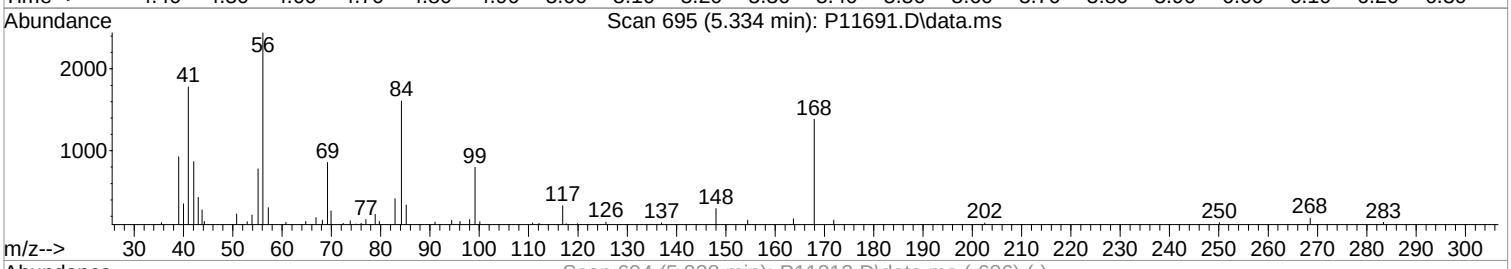
09/01/17

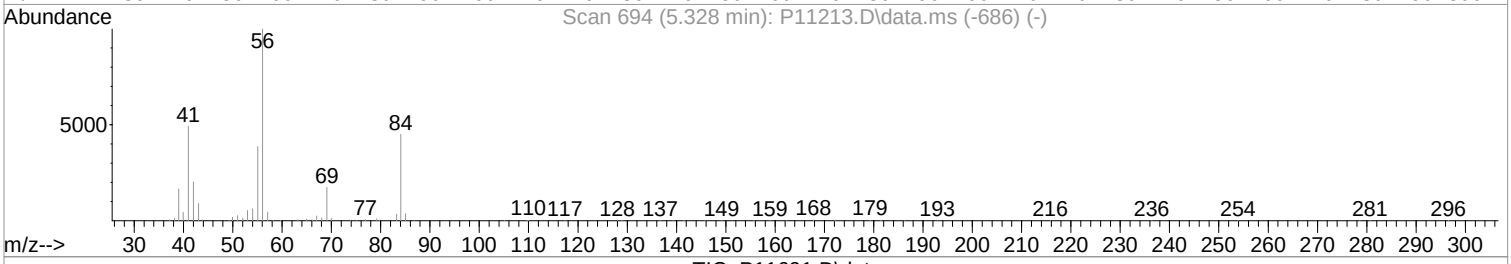
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(44) Cyclohexane (P)

5.334min (+0.000) 0.59 ppb

response 2640

Ion	Exp%	Act%
41.00	100	100
39.00	33.90	52.08
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

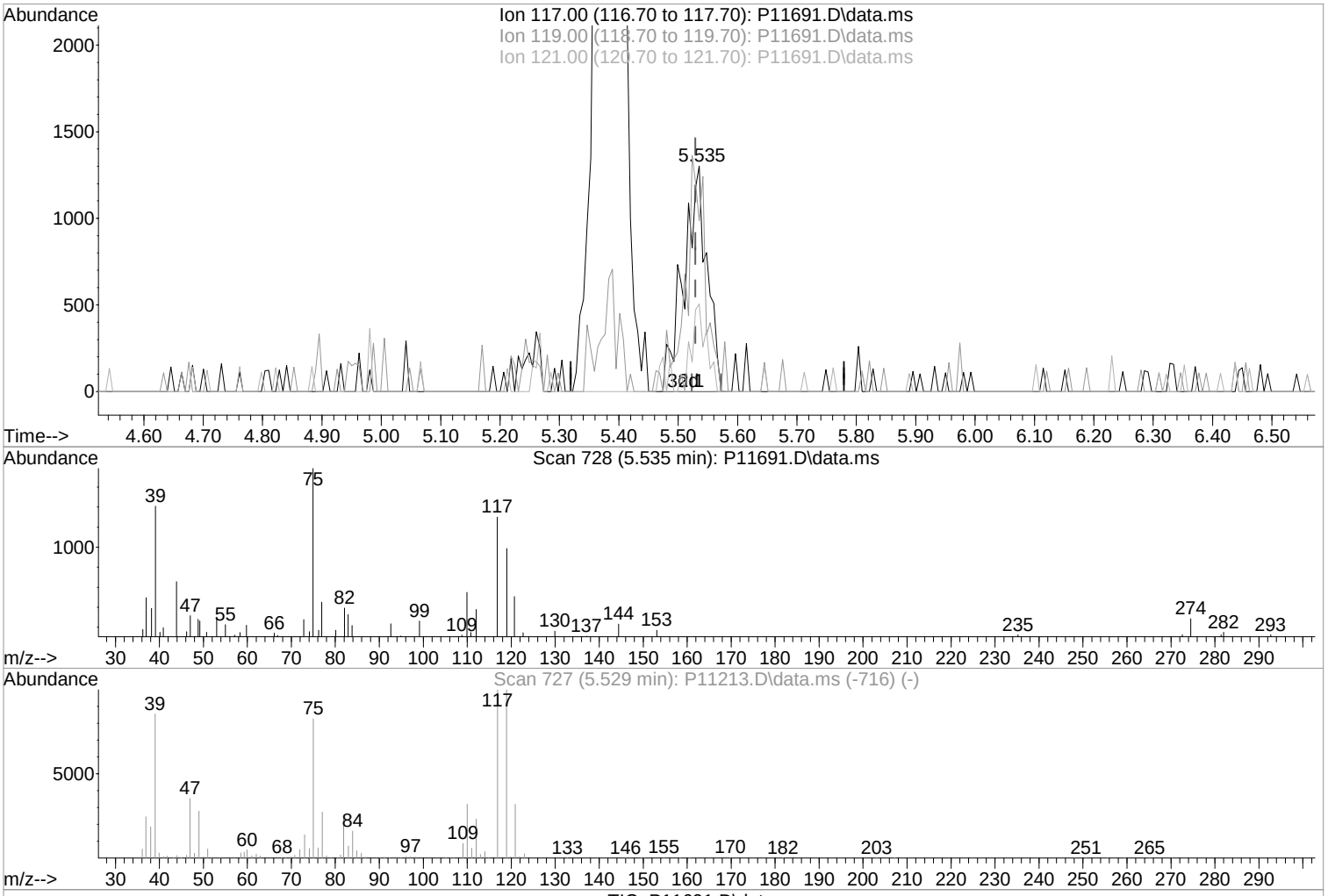
Before

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11691.D\data.ms

(46) Carbontetrachloride (P)

5.535min (+0.006) 1.07 ppb m

response 3555

Ion	Exp%	Act%
117.00	100	100
119.00	100.10	75.86#
121.00	31.80	38.82
0.00	0.00	0.00

Manual Integration:

After

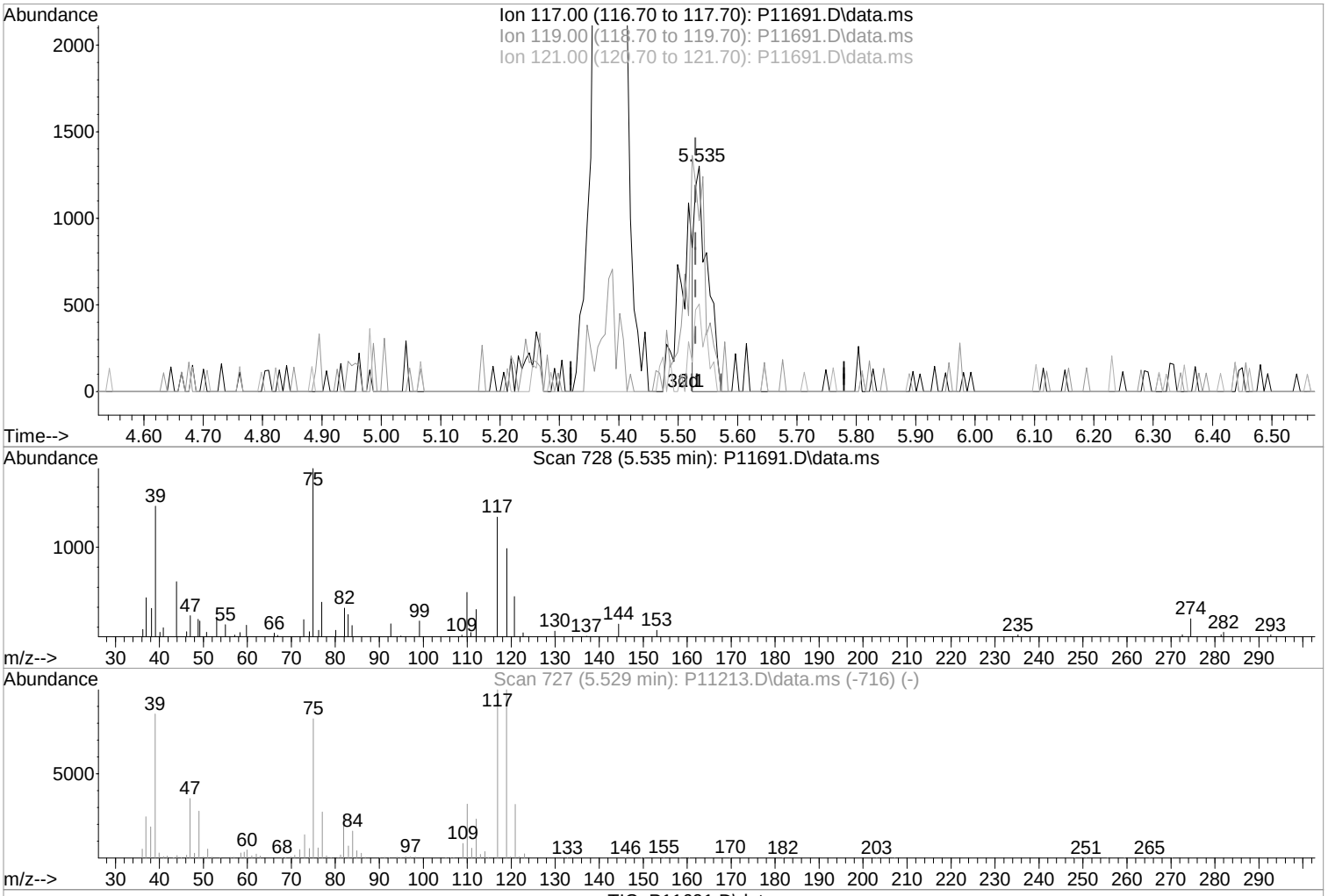
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11691.D\data.ms

(46) Carbontetrachloride (P)

5.535min (+0.006) 0.58 ppb

response 1935

Ion	Exp%	Act%
117.00	100	100
119.00	100.10	75.86#
121.00	31.80	38.82
0.00	0.00	0.00

Manual Integration:

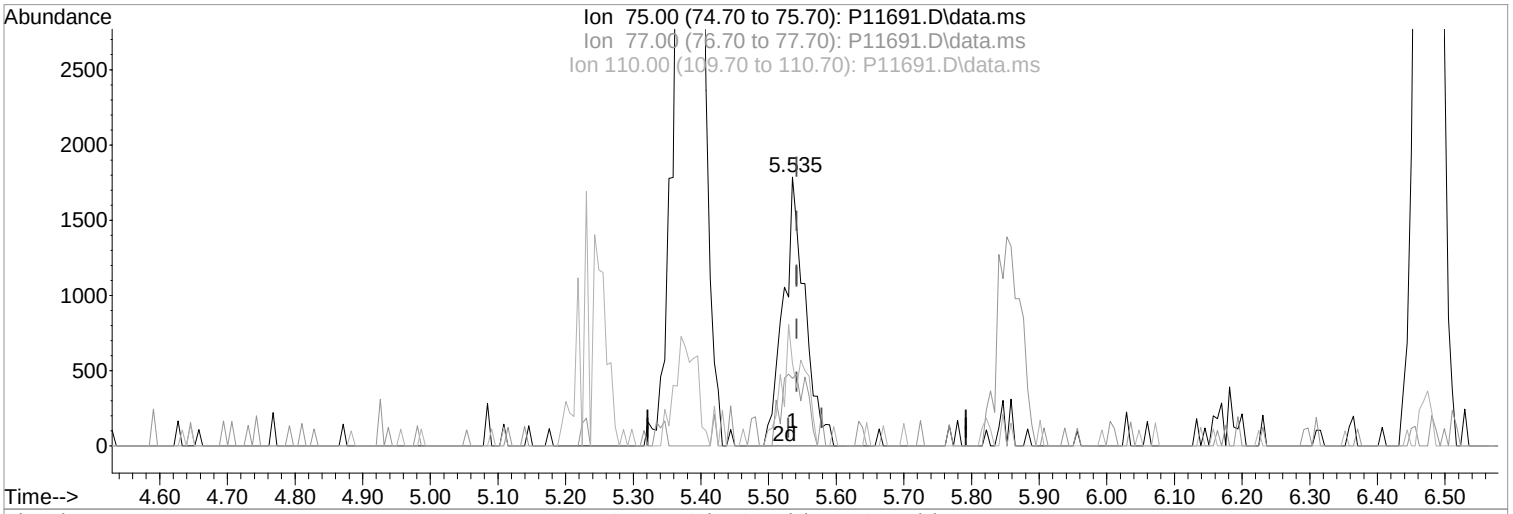
Before

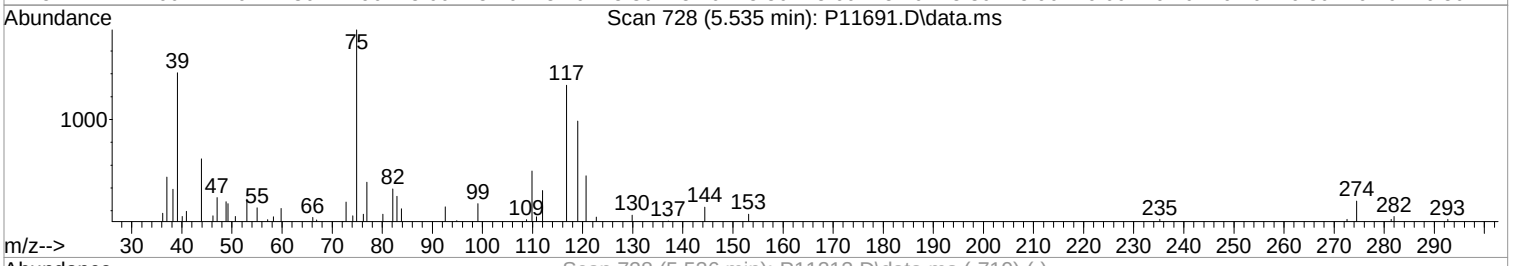
09/01/17

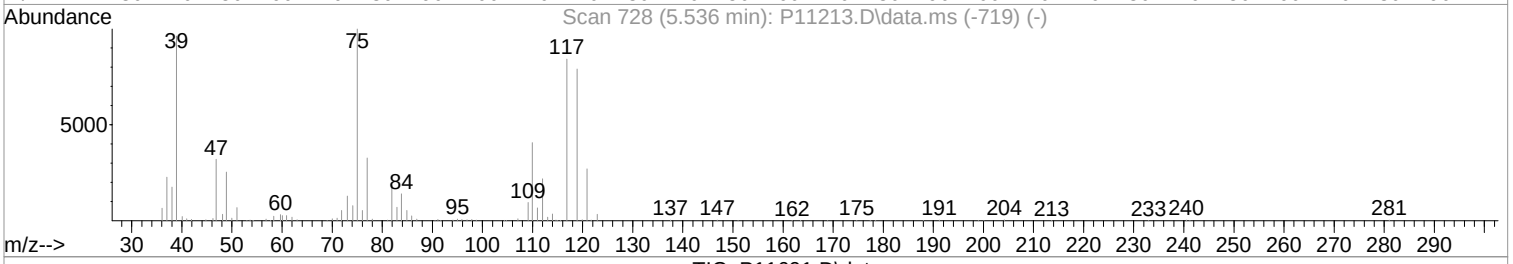
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(47) 1,1-Dichloropropene

5.535min (-0.006) 1.16 ppb m

response 3980

Ion	Exp%	Act%
75.00	100	100
77.00	32.60	25.18
110.00	40.90	30.72
0.00	0.00	0.00

Manual Integration:

After

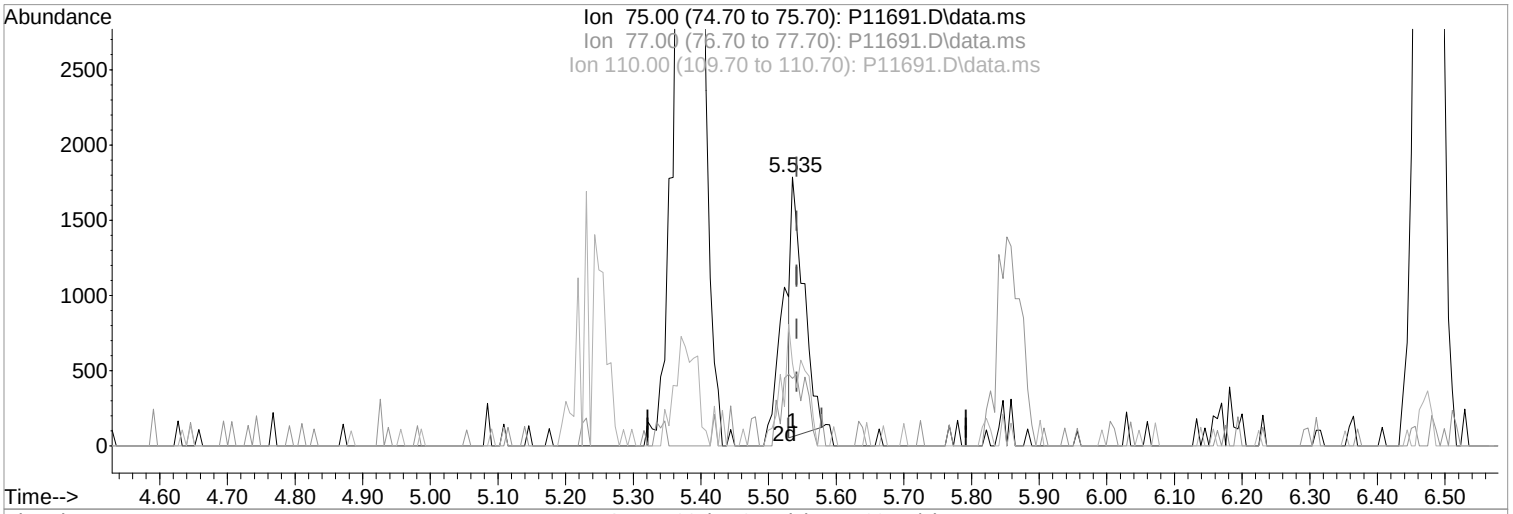
Poor integration.

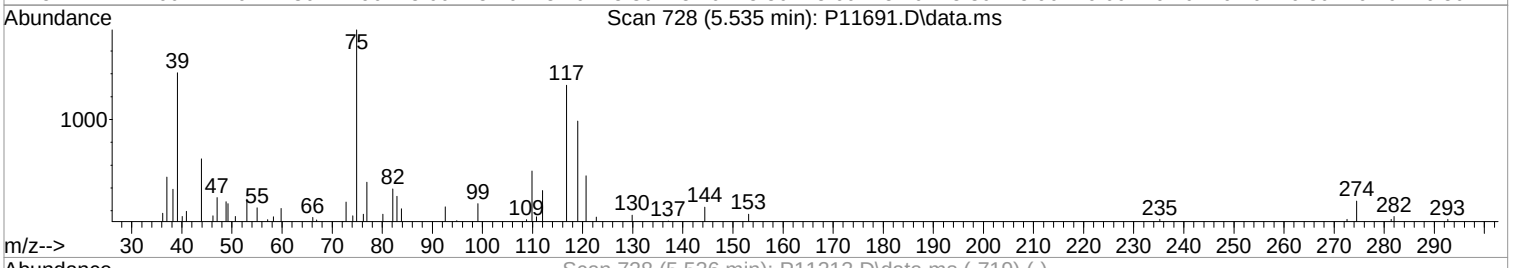
09/01/17

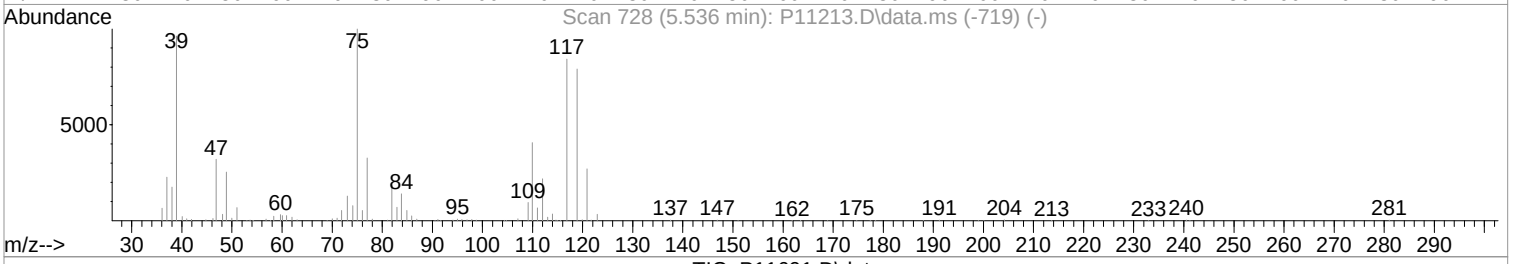
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:01:04 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11691.D\data.ms

(47) 1,1-Dichloropropene

5.535min (-0.006) 0.65 ppb

response 2245

Ion	Exp%	Act%
75.00	100	100
77.00	32.60	25.18
110.00	40.90	30.72
0.00	0.00	0.00

Manual Integration:

Before

09/01/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:34:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	245857	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	399980	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	360758	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	176234	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	111860	46.31	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.62%				
48) surr1,1,2-dichloroetha...	5.773	65	184695	49.92	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.84%				
65) SURR3,Toluene-d8	8.297	98	535401	53.61	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.22%				
70) SURR2,BFB	10.864	95	211260	54.67	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	3092	0.84	ppb		91
3) Chloromethane	1.311	50	6993	0.90	ppb		91
4) Vinyl Chloride	1.384	62	4419	0.83	ppb		100
5) Bromomethane	1.603	94	2712	0.48	ppb		94
6) Chloroethane	1.689	64	3403	1.19	ppb		97
7) Freon 21	1.835	67	6879	1.25	ppb		94
8) Trichlorofluoromethane	1.884	101	5106	1.29	ppb		81
9) Diethyl Ether	2.122	59	4113	0.79	ppb		91
10) Freon 123a	2.122	67	4114	1.15	ppb	#	63
11) Freon 123	2.170	83	3877	1.04	ppb		88
12) Acrolein	2.219	56	6108	3.98	ppb		79
13) 1,1-Diclethene	2.311	96	3015	1.10	ppb	#	48
14) Freon 113	2.311	101	2701	1.13	ppb		83
15) Acetone	2.359	43	4668	1.65	ppb		93
16) 2-Propanol	2.487	45	11590	16.90	ppb		59
17) Iodomethane	2.432	142	915	4.99	ppb		89
18) Carbon Disulfide	2.499	76	6810	0.83	ppb		84
19) Acetonitrile	2.609	40	2410	4.24	ppb	#	76
20) Allyl Chloride	2.640	76	1368	1.03	ppb	#	77
21) Methyl Acetate	2.664	43	8466	1.03	ppb		94
22) Methylene Chloride	2.749	84	2991	1.03	ppb	#	63
23) TBA	2.884	59	15923	15.16	ppb		96
24) Acrylonitrile	3.005	53	12410	3.52	ppb		96
25) Methyl-t-Butyl Ether	3.060	73	10701	1.10	ppb		82
26) trans-1,2-Dichloroethene	3.048	96	2734	0.94	ppb	#	82
28) 1,1-Diclethane	3.542	63	6186	0.82	ppb		82
29) Vinyl Acetate	3.627	86	712	1.03	ppb	#	1
30) DIPE	3.676	45	16571	0.91	ppb		89
31) 2-Chloro-1,3-Butadiene	3.670	53	5710	0.67	ppb		63
32) ETBE	4.200	59	13539	0.79	ppb		78
33) 2,2-Dichloropropane	4.371	77	5352m	1.32	ppb		
34) cis-1,2-Dichloroethene	4.371	96	3655m	1.15	ppb		
35) 2-Butanone	4.432	43	4674	1.16	ppb		94
36) Propionitrile	4.505	54	5063	3.51	ppb		73
37) Bromochloromethane	4.792	130	2504m	1.33	ppb		
38) Methacrylonitrile	4.773	67	1605	0.76	ppb	#	52
39) Tetrahydrofuran	4.871	42	3443	1.29	ppb		89
40) Chloroform	4.956	83	4097m	0.90	ppb		
41) 1,1,1-Trichloroethane	5.261	97	3985	0.95	ppb		87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:34:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.102	73	8993	0.93	ppb		82
44) Cyclohexane	5.334	41	4863m	1.09	ppb		
46) Carbontetrachloride	5.535	117	3555m	1.07	ppb		
47) 1,1-Dichloropropene	5.535	75	3980m	1.16	ppb		
49) Benzene	5.859	78	11028	1.04	ppb		84
50) 1,2-Dichloroethane	5.895	62	5446	1.03	ppb		93
51) Iso-Butyl Alcohol	5.865	43	8534	18.24	ppb		86
52) n-Heptane	6.346	43	6540	0.94	ppb		89
53) 1-Butanol	6.828	56	9846	31.90	ppb	#	60
54) Trichloroethene	6.804	130	2873	1.00	ppb		91
55) Methylcyclohexane	7.041	55	5535	0.74	ppb		76
56) 1,2-Diclpropane	7.084	63	3795	0.86	ppb		79
57) Dibromomethane	7.218	93	1861	1.00	ppb	#	71
58) 1,4-Dioxane	7.291	88	1691	26.96	ppb	#	28
59) Methyl Methacrylate	7.316	69	2640	0.92	ppb	#	86
60) Bromodichloromethane	7.456	83	3241	0.97	ppb		83
61) 2-Nitropropane	7.736	41	3225	2.14	ppb	#	63
62) 2-Chloroethylvinyl Ether	7.858	63	1780	0.57	ppb		81
63) cis-1,3-Dichloropropene	7.998	75	4466	0.97	ppb		77
64) 4-Methyl-2-pentanone	8.200	43	6774	0.99	ppb		87
66) Toluene	8.364	91	12867	1.06	ppb		86
67) trans-1,3-Dichloropropene	8.639	75	4361	1.03	ppb		90
68) Ethyl Methacrylate	8.773	69	4546	0.97	ppb	#	62
69) 1,1,2-Trichloroethane	8.821	97	3111	1.11	ppb		91
72) Tetrachloroethene	8.968	164	2957	1.41	ppb	#	64
73) 2-Hexanone	9.120	43	4343	0.83	ppb		99
74) 1,3-Dichloropropane	8.992	76	5702	1.23	ppb	#	62
75) Dibromochloromethane	9.224	129	2519	0.94	ppb		91
76) N-Butyl Acetate	9.273	43	9798	0.91	ppb		97
77) 1,2-Dibromoethane	9.321	107	3002	1.20	ppb		98
78) Chlorobenzene	9.815	112	8191	1.10	ppb		89
79) 3-CBTF	9.833	180	3988	1.04	ppb		93
80) 4-CBTF	9.888	180	4074	1.22	ppb		81
81) 1,1,1,2-Tetrachloroethane	9.894	131	2520	0.90	ppb	#	71
82) Ethylbenzene	9.937	106	4664	1.18	ppb		97
83) (m+p)Xylene	10.047	106	11572	2.37	ppb	#	68
84) o-Xylene	10.406	106	4800	0.95	ppb		96
85) Styrene	10.419	104	8414	1.03	ppb		90
87) Bromoform	10.571	173	1102	0.66	ppb	#	66
88) 2-CBTF	10.650	180	3751	1.07	ppb	#	87
89) Isopropylbenzene	10.742	105	13043	1.10	ppb		93
90) Cyclohexanone	10.803	55	21541	18.77	ppb		80
91) trans-1,4-Dichloro-2-B...	11.047	53	1569	0.84	ppb		86
92) 1,1,2,2-Tetrachloroethane	11.004	83	3666	0.98	ppb		90
93) Bromobenzene	10.986	156	3388	1.12	ppb	#	52
94) 1,2,3-Trichloropropane	11.034	110	1514	1.19	ppb	#	56
95) n-Propylbenzene	11.095	91	14838	1.04	ppb		91
96) 2-Chlorotoluene	11.156	91	9674	1.12	ppb		89
97) 3-Chlorotoluene	11.217	91	9775	1.08	ppb		95
98) 4-Chlorotoluene	11.254	91	10322	1.06	ppb		95
99) 1,3,5-Trimethylbenzene	11.254	105	10381	1.03	ppb	#	70
100) tert-Butylbenzene	11.522	119	10409	1.13	ppb		88
101) 1,2,4-Trimethylbenzene	11.565	105	10606	1.03	ppb		99
102) 3,4-DCBTF	11.626	214	3197	1.20	ppb	#	77
103) sec-Butylbenzene	11.705	105	14196	1.12	ppb		96
104) p-Isopropyltoluene	11.827	119	11397	1.01	ppb		80

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:34:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

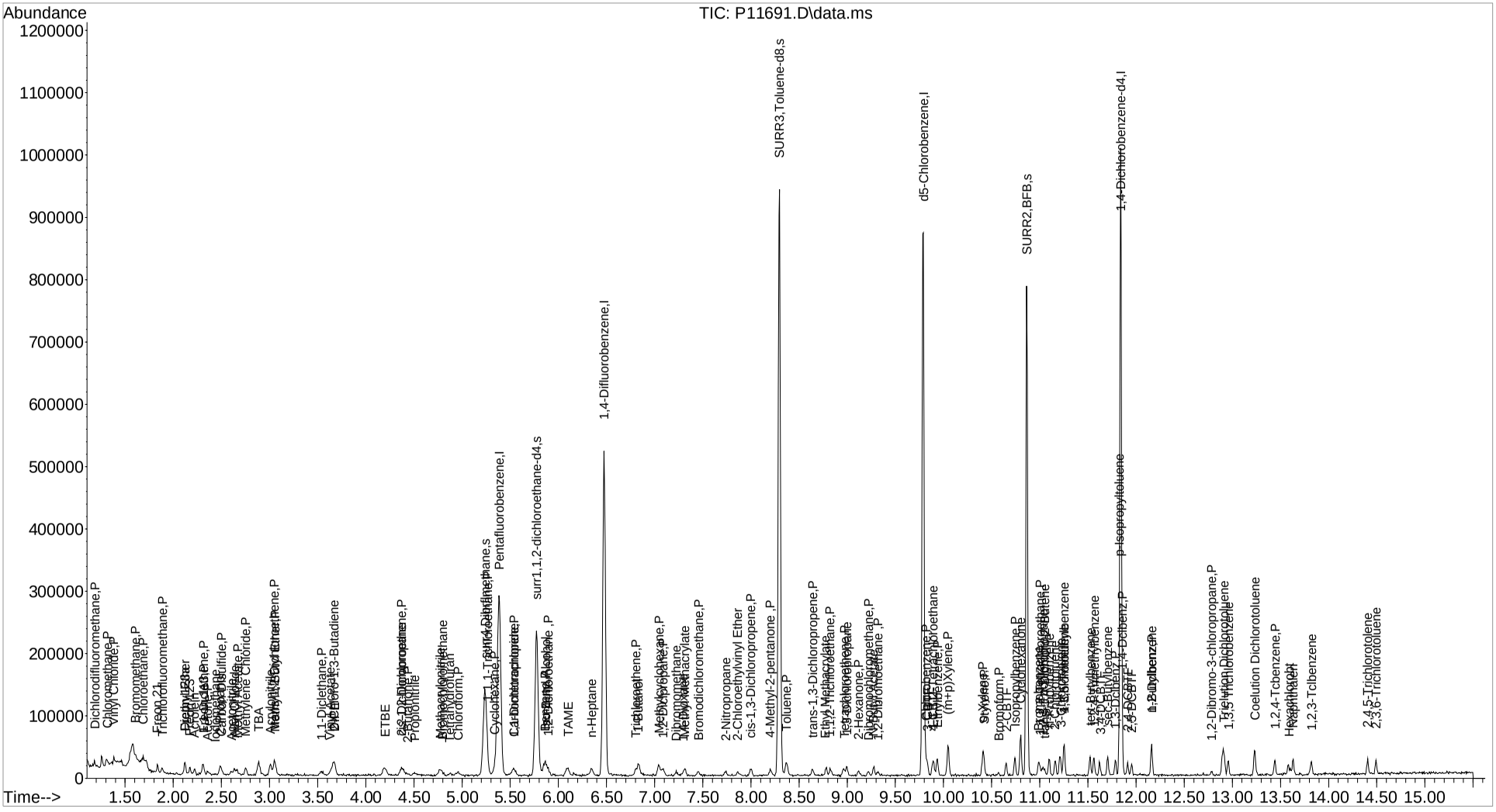
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	6218	1.04	ppb		94
106) 1,4-Dclbenz	11.857	146	6245	1.02	ppb		91
107) 2,4-DCBTF	11.912	214	2389	0.66	ppb		94
108) 2,5-DCBTF	11.955	214	3193m	1.23	ppb		
109) n-Butylbenzene	12.162	91	9563	0.92	ppb		87
110) 1,2-Dclbenz	12.162	146	6014	1.04	ppb		92
111) 1,2-Dibromo-3-chloropr...	12.784	157	999	0.92	ppb	#	83
112) Trielution Dichlorotol...	12.912	125	17497	3.06	ppb		94
113) 1,3,5 Trichlorobenzene	12.961	180	4555	1.04	ppb	#	73
114) Coelution Dichlorotoluene	13.235	125	11891	1.84	ppb	#	87
115) 1,2,4-Tcbenzene	13.442	180	4969	1.15	ppb		87
116) Hexachlorobt	13.589	225	2235	1.26	ppb	#	41
117) Naphthalen	13.631	128	13455	0.89	ppb		97
118) 1,2,3-Tclbenzene	13.820	180	5082	1.07	ppb		88
119) 2,4,5-Trichlorotolene	14.406	159	3923	0.94	ppb		95
120) 2,3,6-Trichlorotoluene	14.491	159	3619m	0.92	ppb		

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11691.D
Acq On : 31 Aug 2017 5:20 pm
Operator : B.ALLGEIER
Sample : 1.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 09:34:48 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

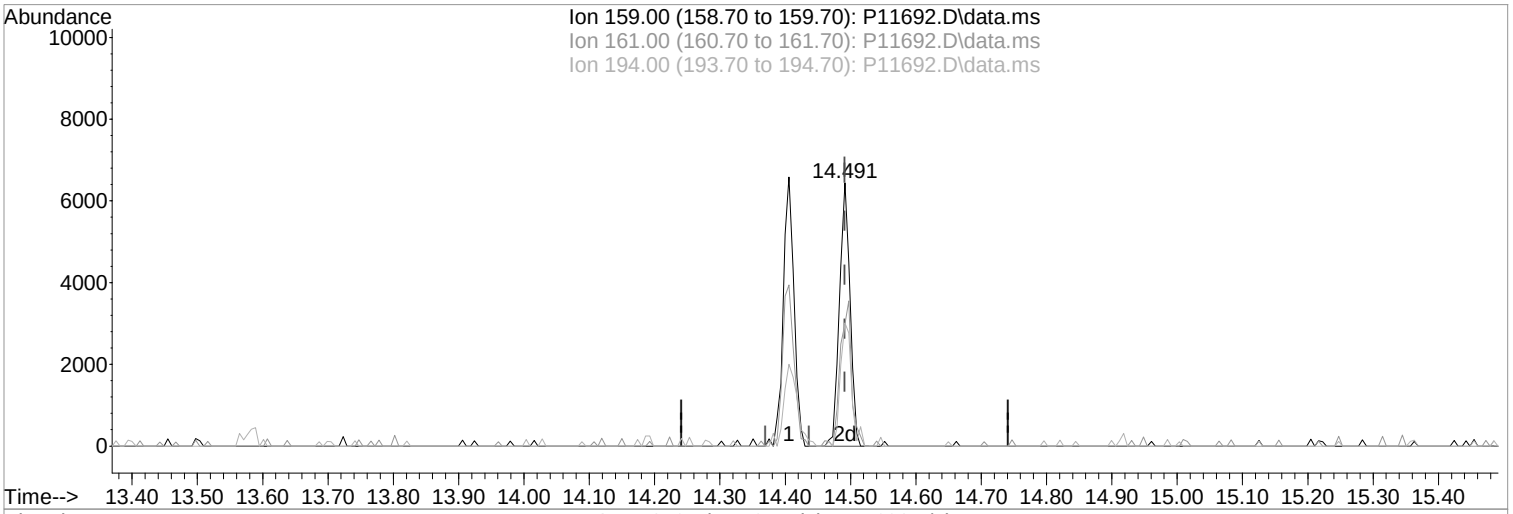


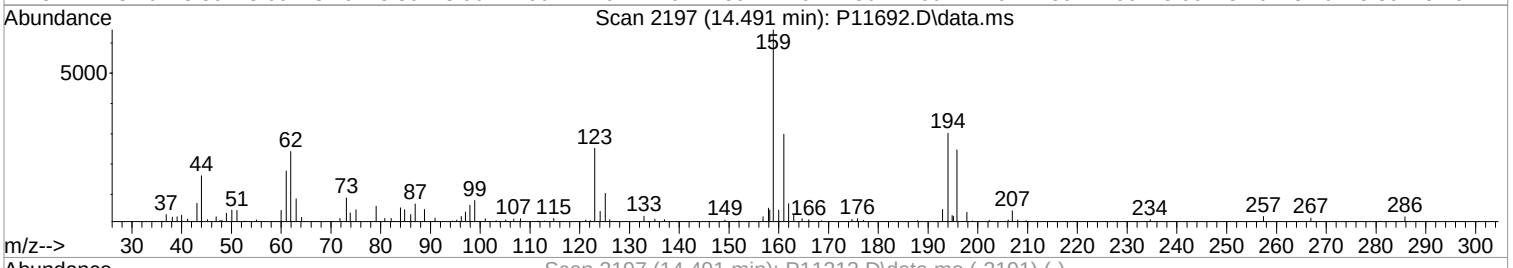
1st BA 09/01/17
2nd 09/05/17

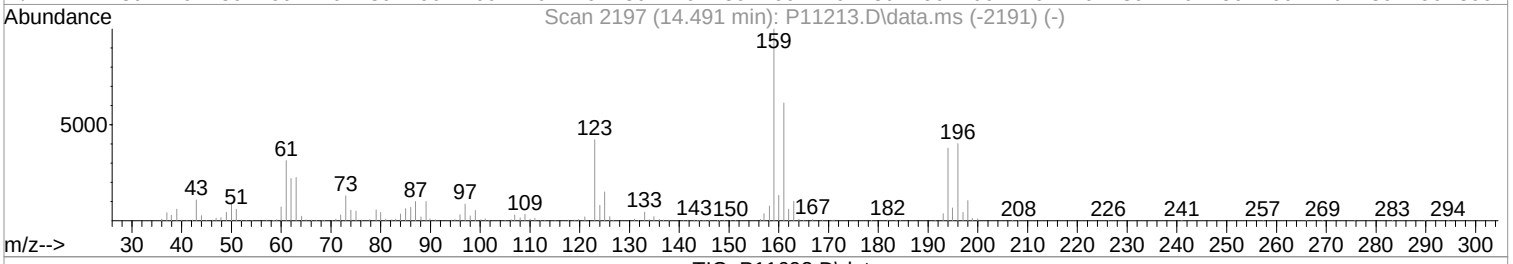
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.491min (+0.000) 1.91 ppb m

response 7292

Ion	Exp%	Act%
159.00	100	100
161.00	61.30	46.37#
194.00	37.80	46.80#
0.00	0.00	0.00

Manual Integration:

After

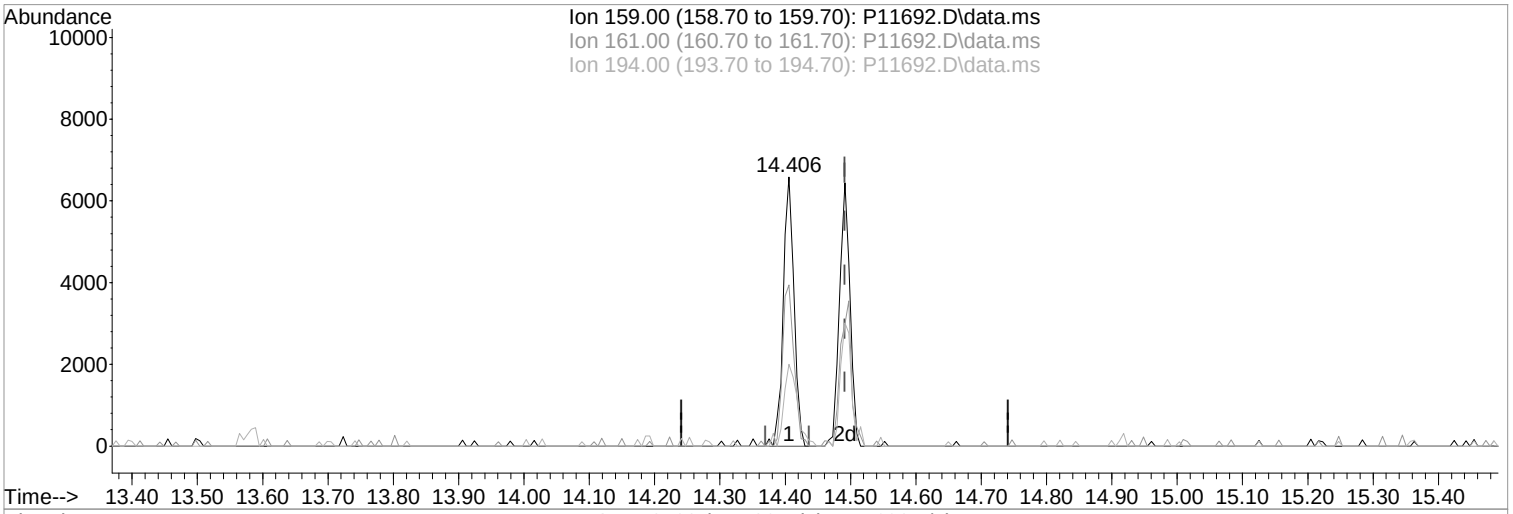
Poor integration.

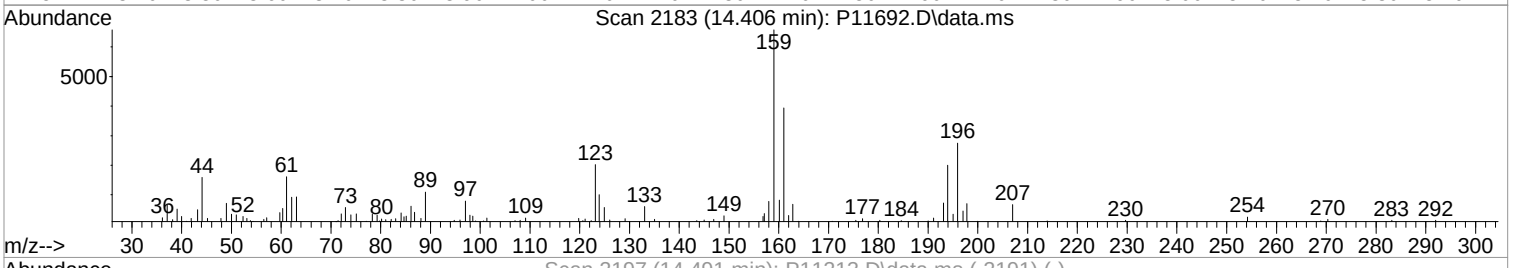
09/01/17

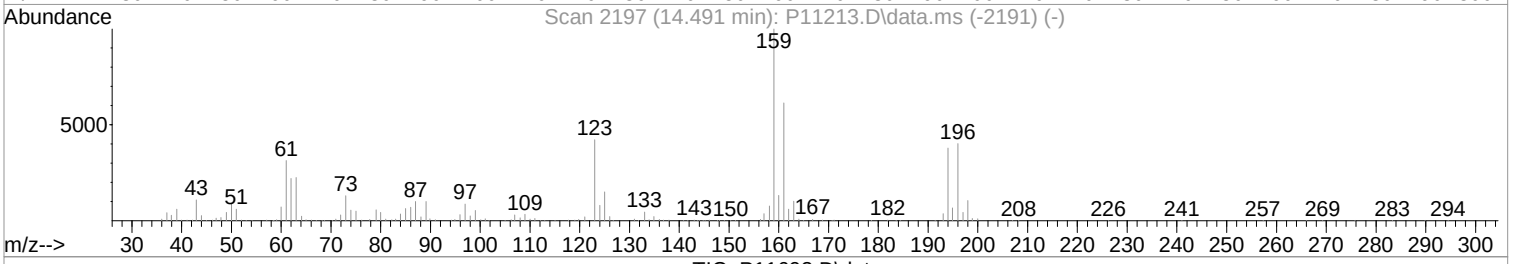
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.406min (-0.085) 1.97 ppb

response 7533

Ion	Exp%	Act%
159.00	100	100
161.00	61.30	59.85
194.00	37.80	30.40
0.00	0.00	0.00

Manual Integration:

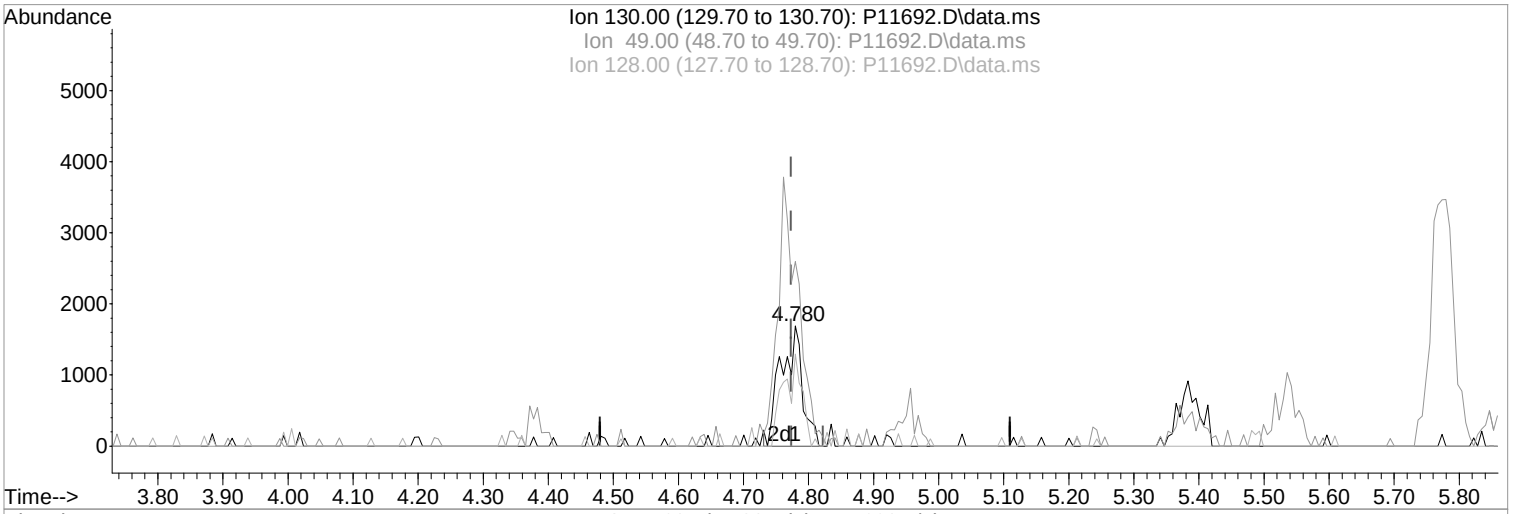
Before

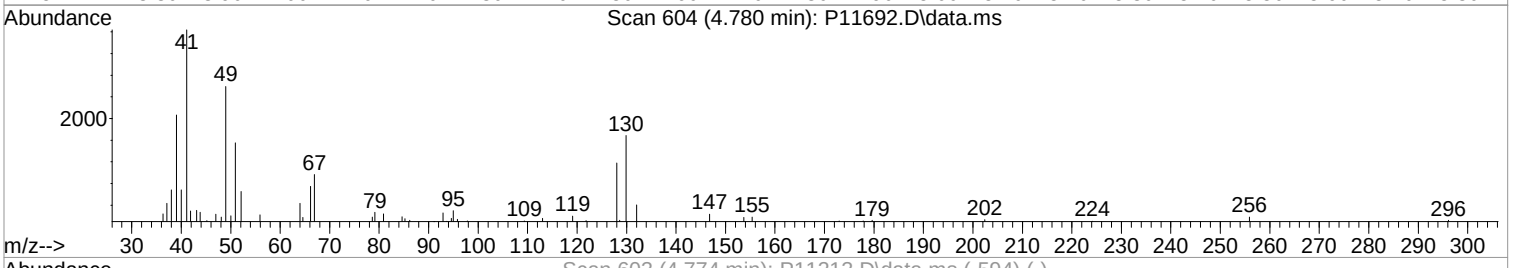
09/01/17

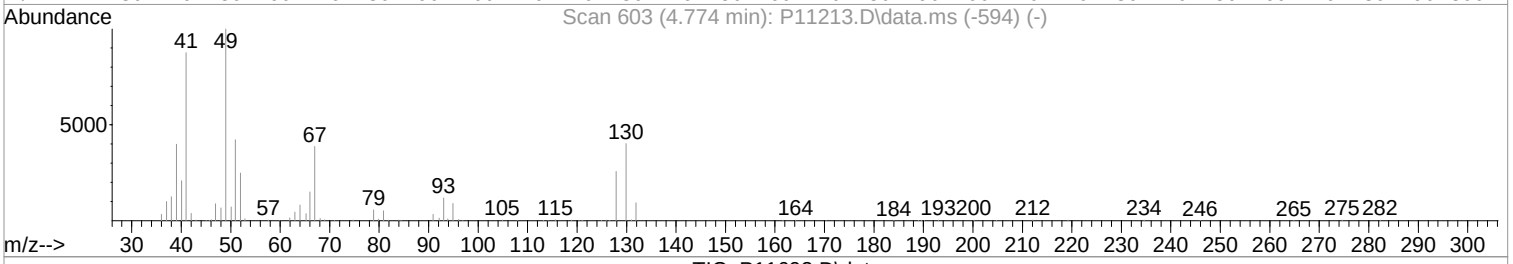
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(37) Bromochloromethane

4.780min (+0.006) 2.10 ppb m

response 3844

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	153.67#
128.00	66.10	69.79
0.00	0.00	0.00

Manual Integration:

After

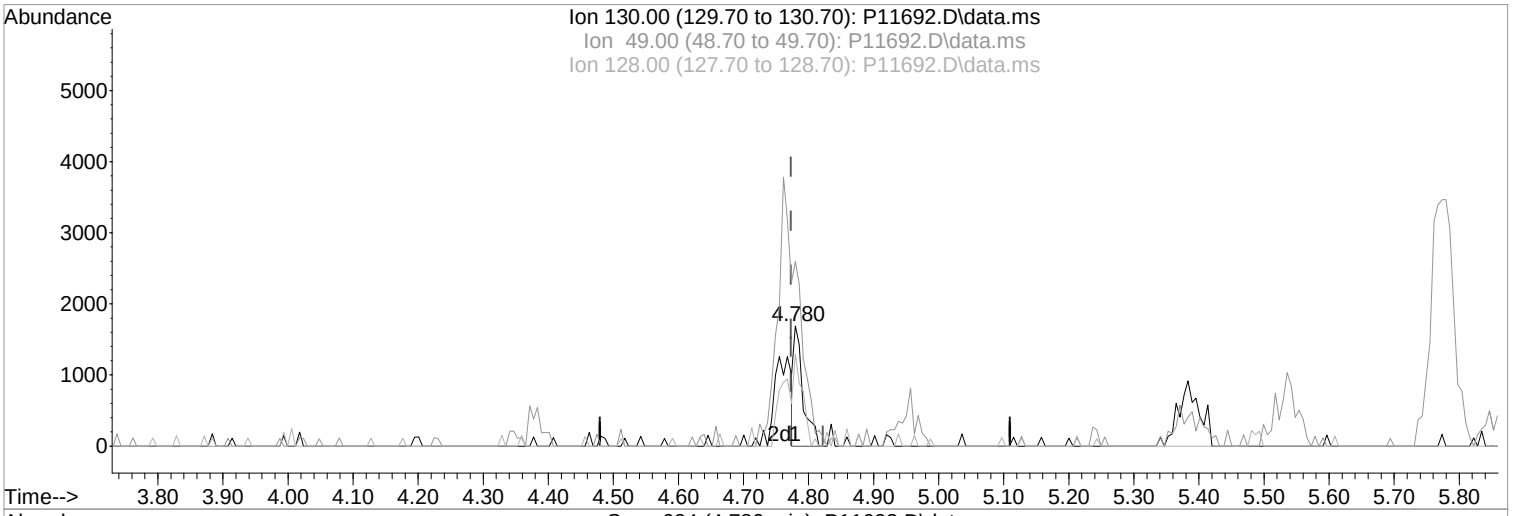
Poor integration.

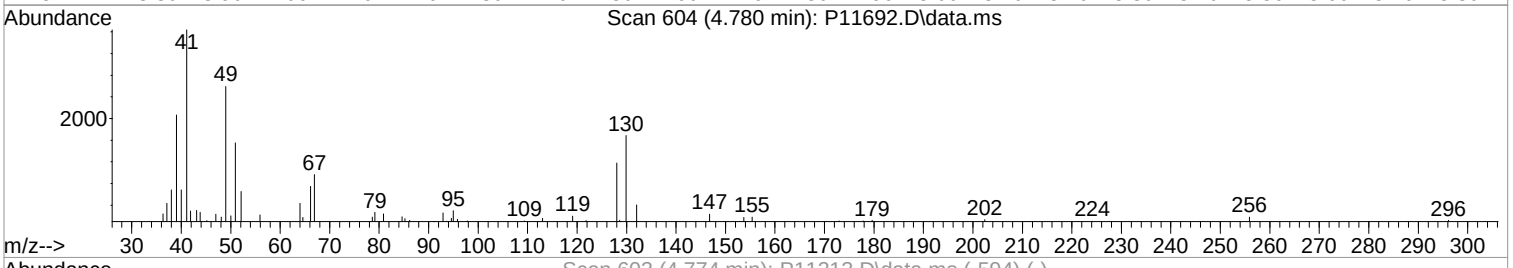
09/01/17

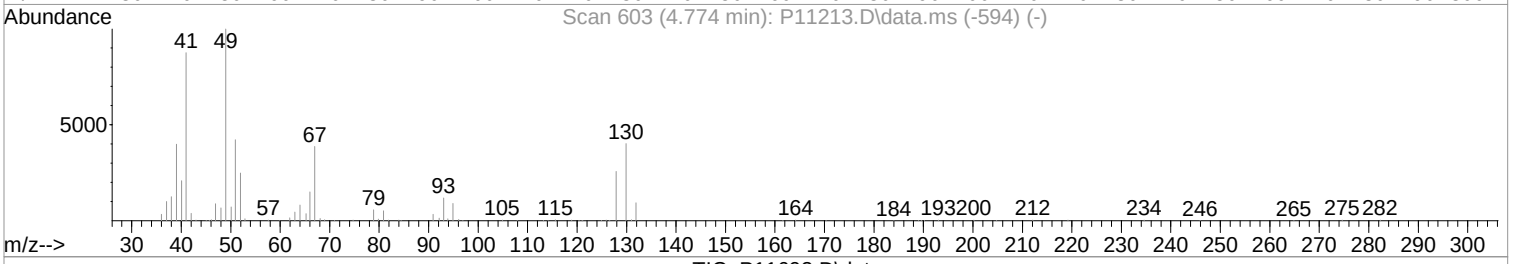
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(37) Bromochloromethane

4.780min (+0.006) 0.93 ppb

response 1690

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	153.67#
128.00	66.10	76.78
0.00	0.00	0.00

Manual Integration:

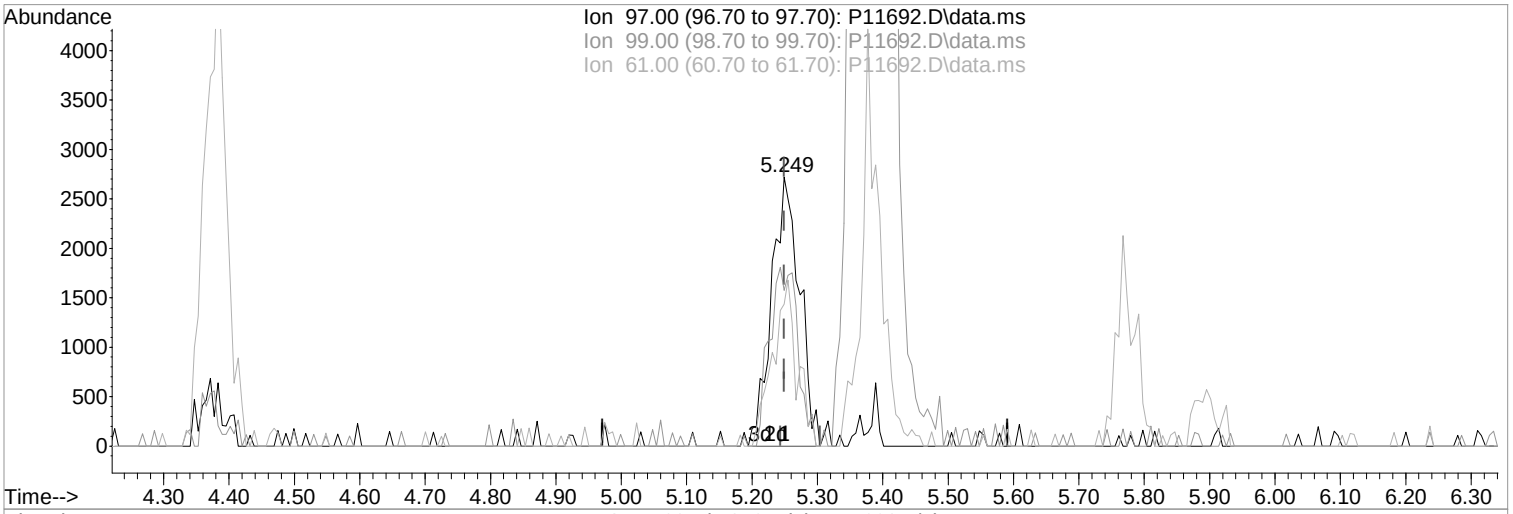
Before

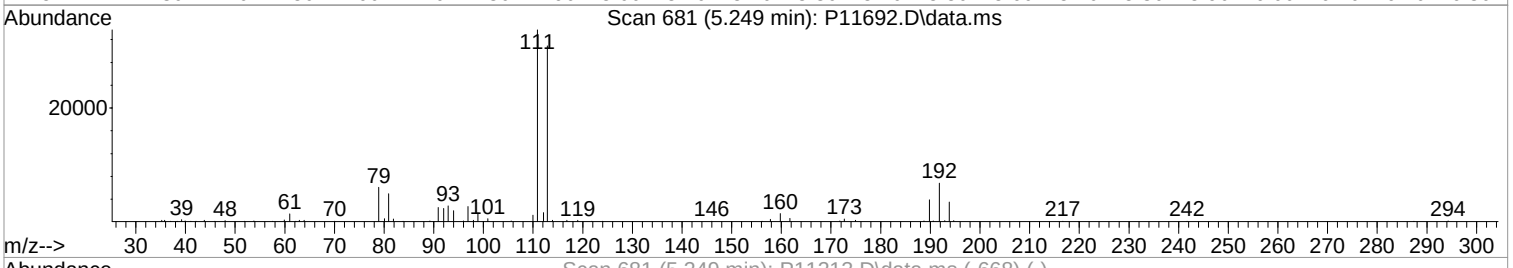
09/01/17

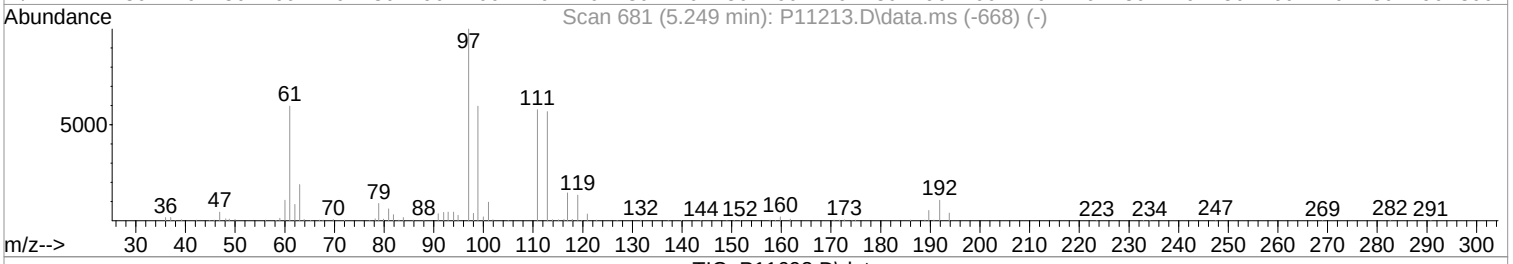
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

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

5.249min (+0.000) 1.98 ppb m

response 8096

Ion	Exp%	Act%
97.00	100	100
99.00	59.70	57.88
61.00	59.70	52.81
0.00	0.00	0.00

Manual Integration:

After

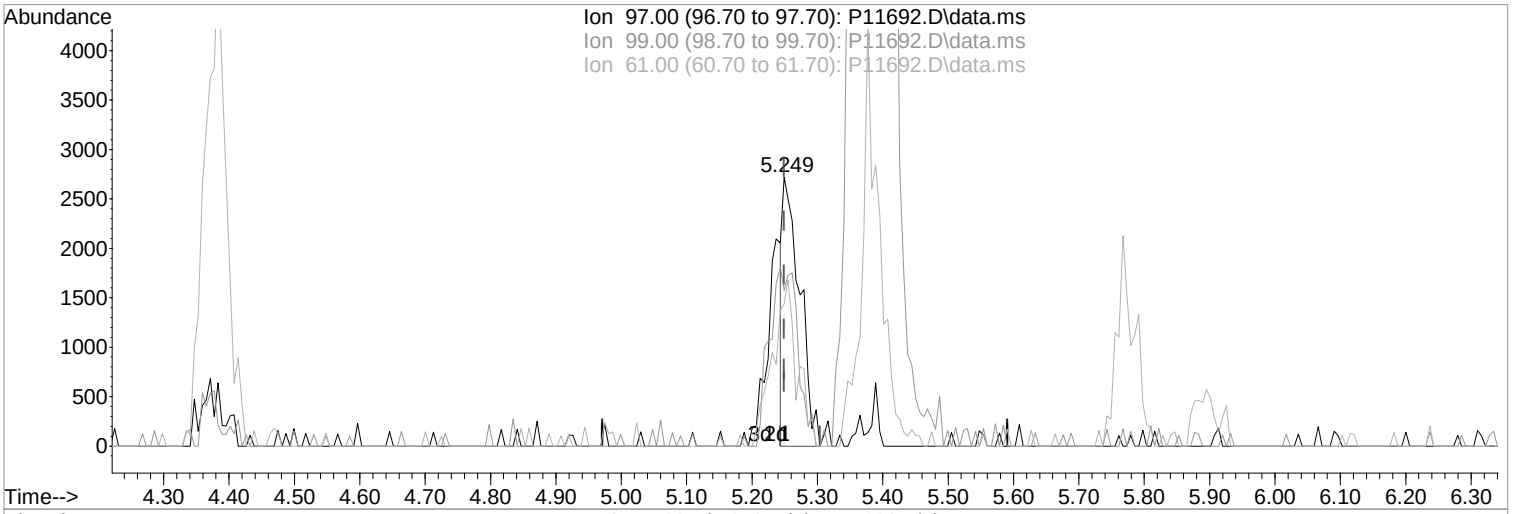
Poor integration.

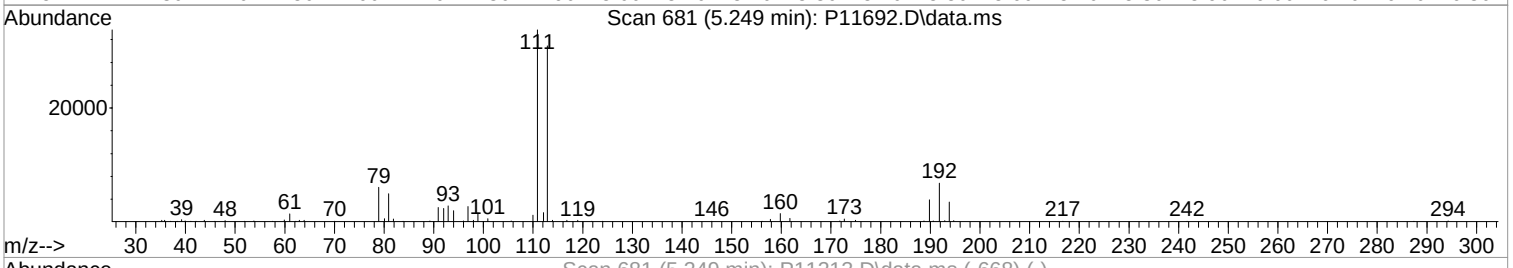
09/01/17

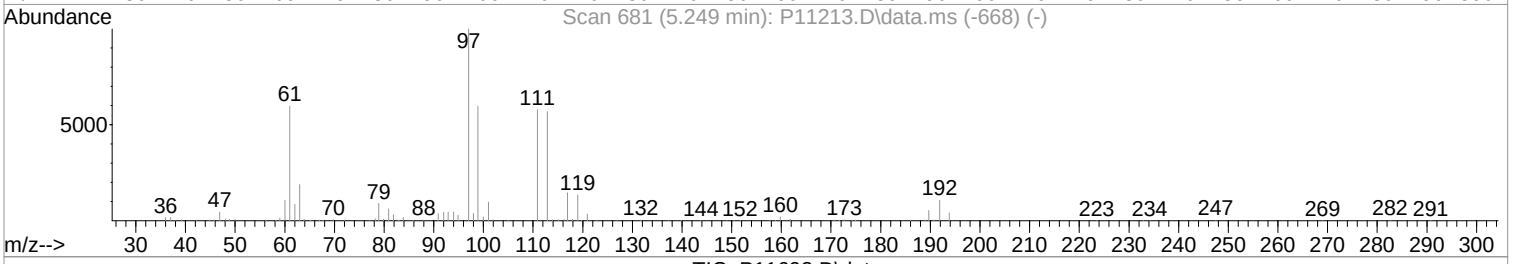
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

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

5.249min (+0.000) 1.21 ppb

response 4944

Ion	Exp%	Act%
97.00	100	100
99.00	59.70	57.88
61.00	59.70	52.81
0.00	0.00	0.00

Manual Integration:

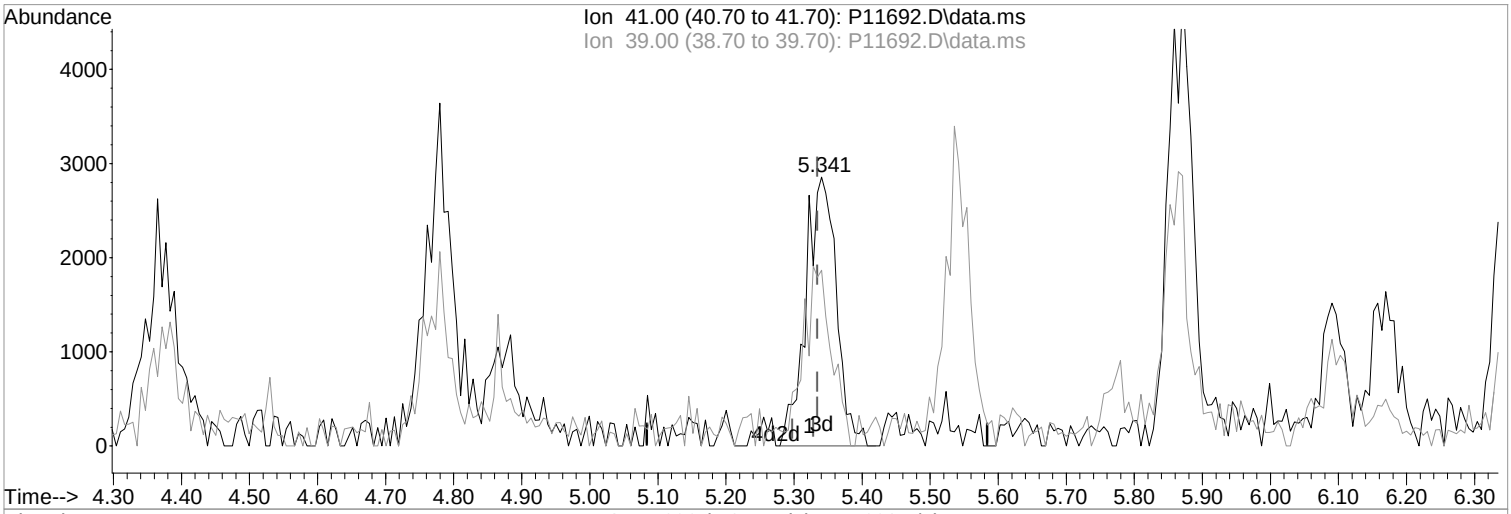
Before

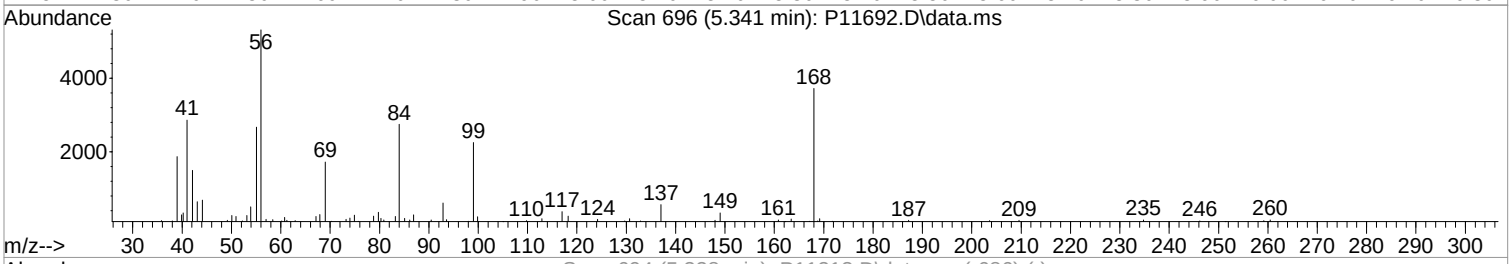
09/01/17

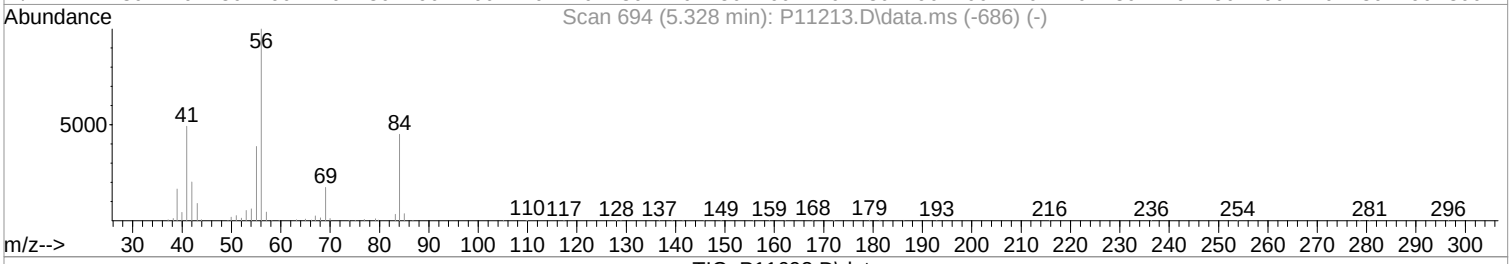
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(44) Cyclohexane (P)

5.341min (+0.006) 2.06 ppb m

response 8917

Ion	Exp%	Act%
41.00	100	100
39.00	33.90	65.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

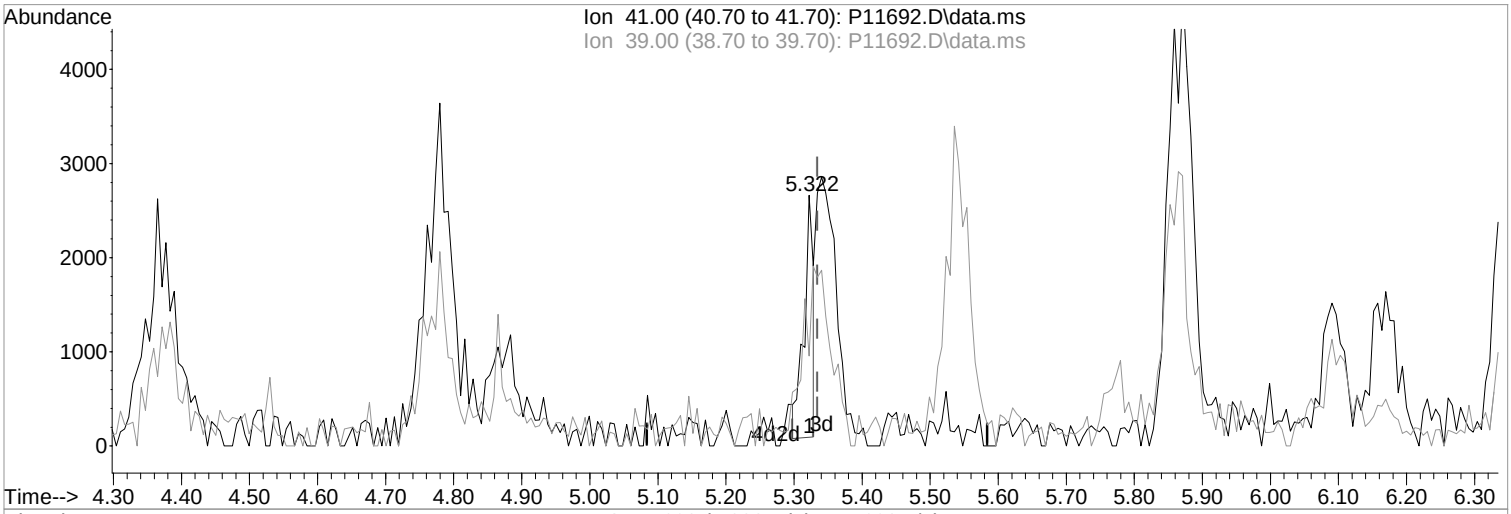
Poor integration.

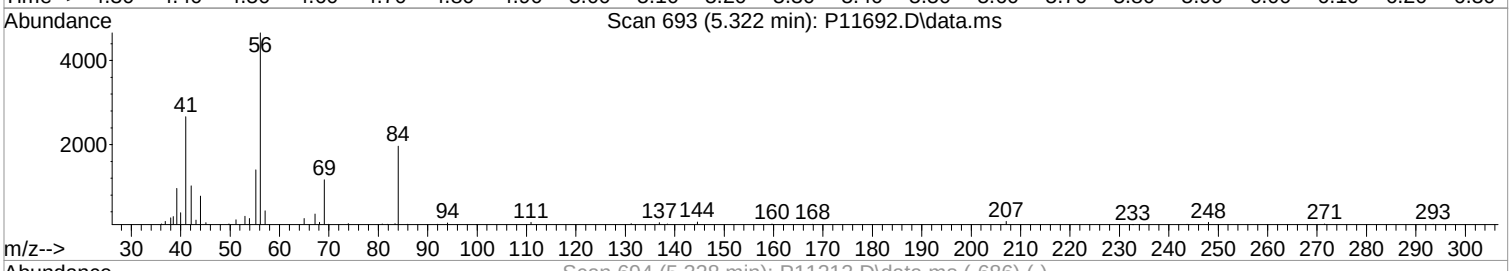
09/01/17

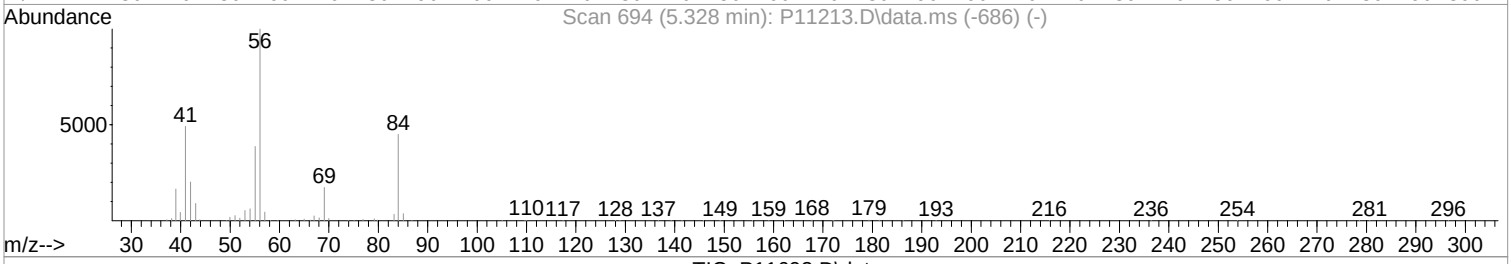
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(44) Cyclohexane (P)

5.322min (-0.012) 0.57 ppb

response 2470

Ion	Exp%	Act%
41.00	100	100
39.00	33.90	35.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

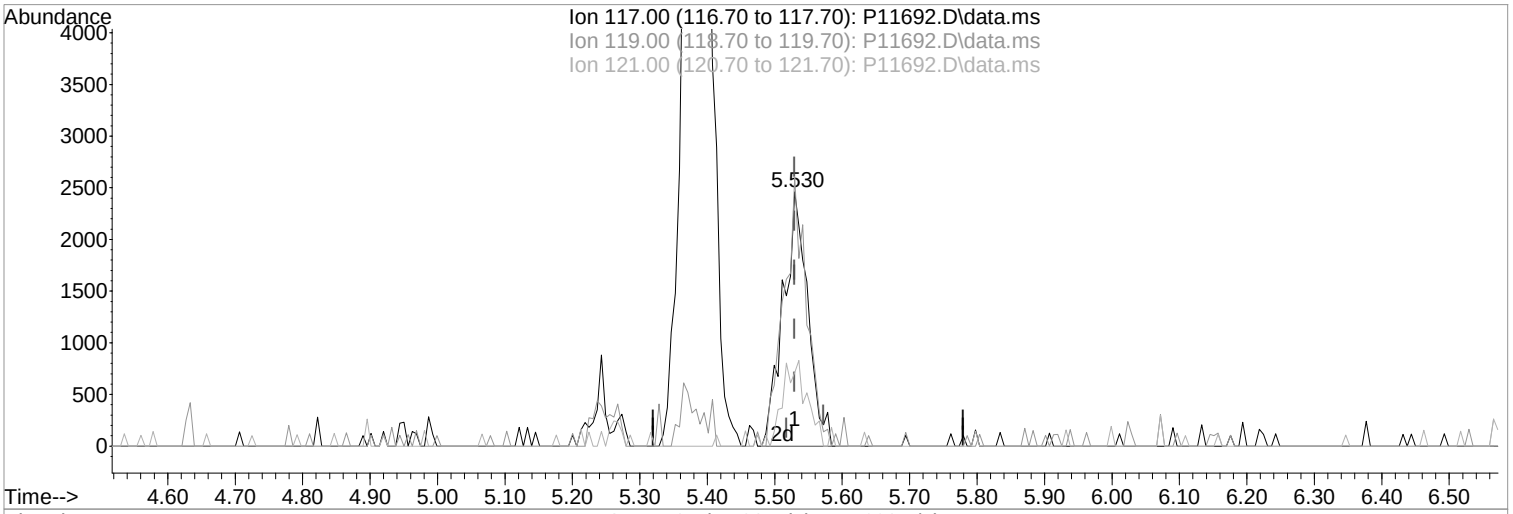
Before

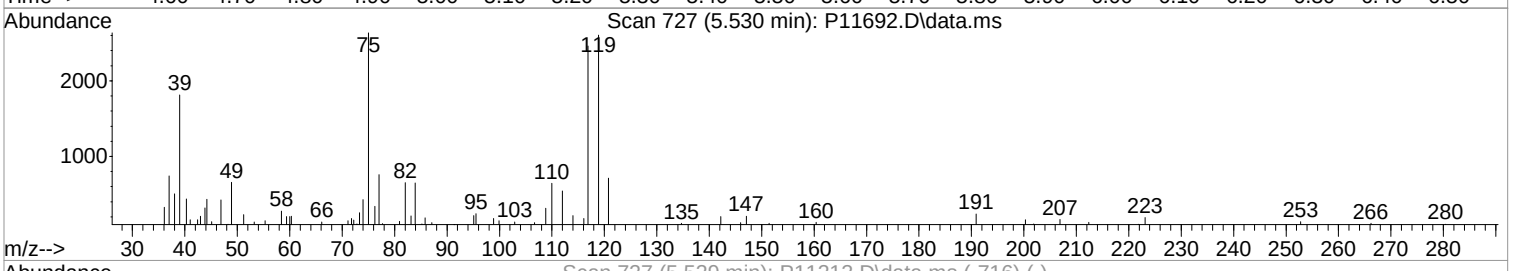
09/01/17

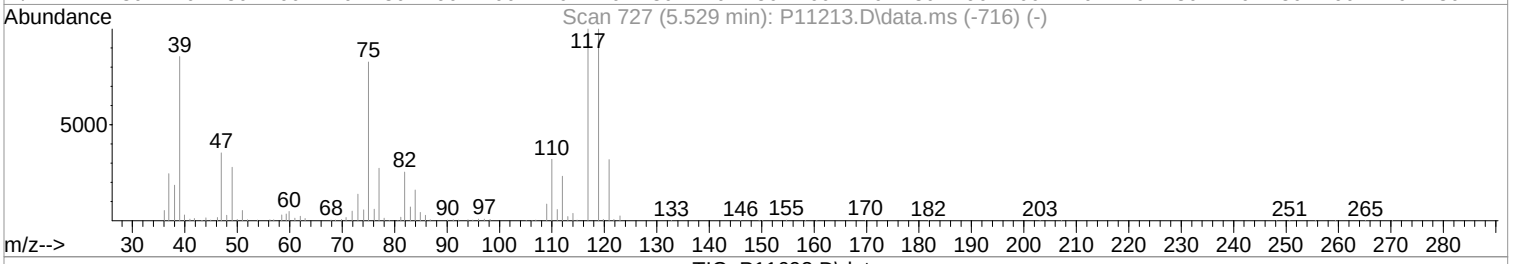
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(46) Carbontetrachloride (P)

5.530min (+0.000) 1.94 ppb m

response 6263

Ion	Exp%	Act%
117.00	100	100
119.00	100.10	105.85
121.00	31.80	28.90
0.00	0.00	0.00

Manual Integration:

After

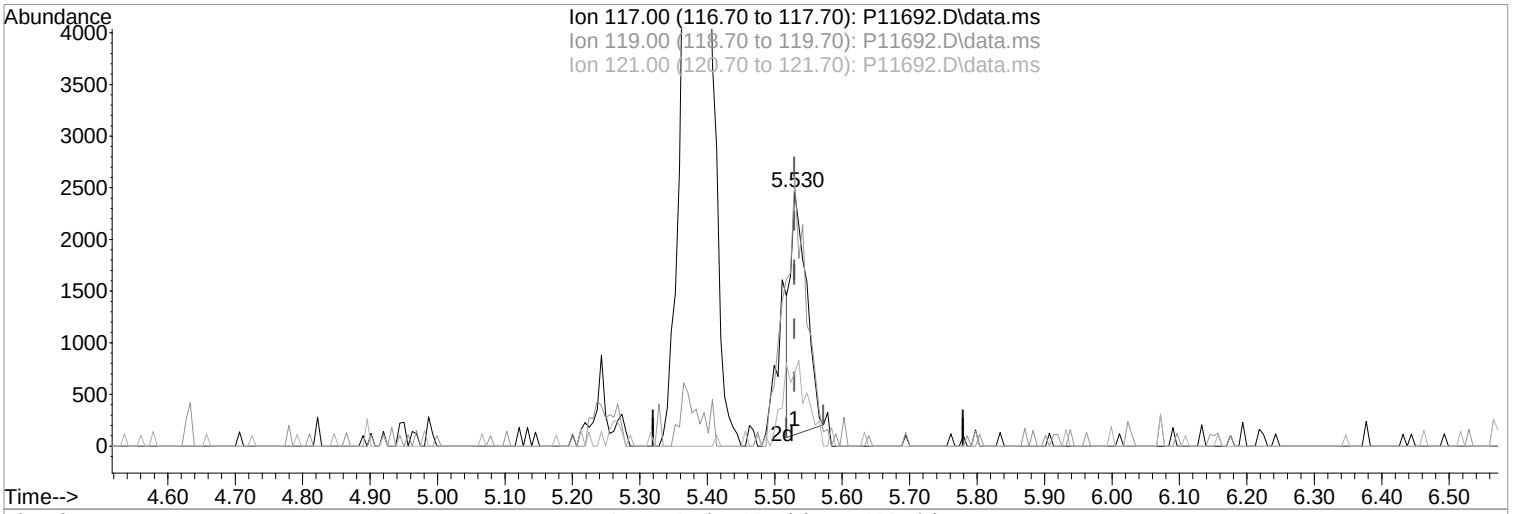
Poor integration.

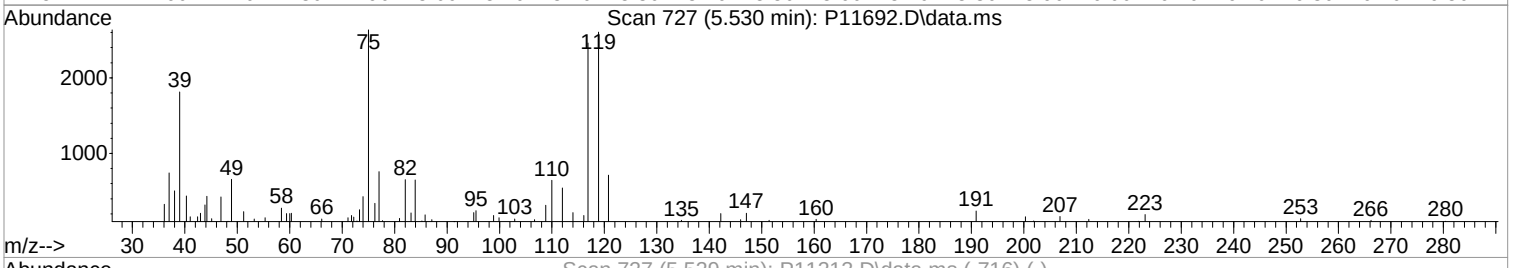
09/01/17

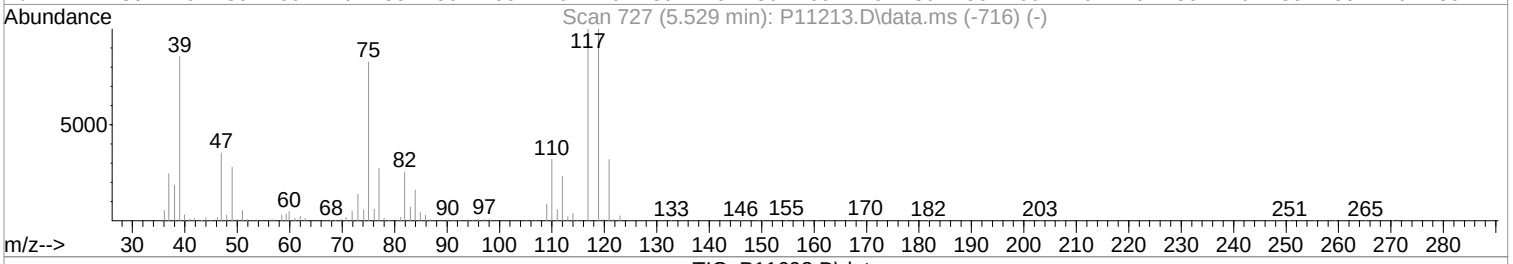
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:01:07 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11692.D\data.ms

(46) Carbontetrachloride (P)

5.530min (+0.000) 1.18 ppb

response 3808

Ion	Exp%	Act%
117.00	100	100
119.00	100.10	105.85
121.00	31.80	28.90
0.00	0.00	0.00

Manual Integration:

Before

09/01/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:39:17 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	238473	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	388855	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	347493	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	171035	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.231	113	104030	44.30	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 88.60%#				
48) surr1,1,2-dichloroetha...	5.773	65	178775	49.70	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.40%				
65) SURR3,Toluene-d8	8.297	98	516236	53.17	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.34%				
70) SURR2,BFB	10.864	95	200988	53.50	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	6631	1.86	ppb		83
3) Chloromethane	1.305	50	11133	1.48	ppb		83
4) Vinyl Chloride	1.384	62	8031	1.55	ppb		94
5) Bromomethane	1.610	94	5215	1.67	ppb		93
6) Chloroethane	1.683	64	4667	1.68	ppb		82
7) Freon 21	1.835	67	10191	1.90	ppb		91
8) Trichlorofluoromethane	1.884	101	7577	1.98	ppb		81
9) Diethyl Ether	2.122	59	7497	1.49	ppb	#	71
10) Freon 123a	2.122	67	7112	2.06	ppb		94
11) Freon 123	2.170	83	8065	2.23	ppb		96
12) Acrolein	2.219	56	12604	8.47	ppb		81
13) 1,1-Diclethene	2.311	96	5366	2.02	ppb	#	81
14) Freon 113	2.317	101	4368	1.89	ppb		100
15) Acetone	2.359	43	7714	2.80	ppb		83
16) 2-Propanol	2.487	45	25280	38.00	ppb		96
17) Iodomethane	2.445	142	1401	5.14	ppb	#	56
18) Carbon Disulfide	2.506	76	14059	1.76	ppb		95
19) Acetonitrile	2.597	40	6760	12.26	ppb	#	77
20) Allyl Chloride	2.640	76	2399	1.86	ppb	#	87
21) Methyl Acetate	2.664	43	16914	2.12	ppb		98
22) Methylene Chloride	2.756	84	6547	2.32	ppb	#	80
23) TBA	2.884	59	35379	34.73	ppb		97
24) Acrylonitrile	3.012	53	26414	7.73	ppb		88
25) Methyl-t-Butyl Ether	3.061	73	20336	2.16	ppb		90
26) trans-1,2-Dichloroethene	3.048	96	4940	1.76	ppb		98
28) 1,1-Diclethane	3.542	63	10963	1.51	ppb		85
29) Vinyl Acetate	3.627	86	1533	2.29	ppb	#	1
30) DIPE	3.670	45	32831	1.86	ppb		96
31) 2-Chloro-1,3-Butadiene	3.664	53	11906	1.43	ppb		66
32) ETBE	4.194	59	25214	1.52	ppb		87
33) 2,2-Dichloropropane	4.371	77	8815	2.24	ppb		92
34) cis-1,2-Dichloroethene	4.377	96	6206	2.01	ppb	#	48
35) 2-Butanone	4.432	43	9296	2.37	ppb		87
36) Propionitrile	4.518	54	11925	8.53	ppb		95
37) Bromochloromethane	4.780	130	3844m	2.10	ppb		
38) Methacrylonitrile	4.767	67	3981	1.95	ppb	#	51
39) Tetrahydrofuran	4.871	42	4822	1.86	ppb		91
40) Chloroform	4.963	83	9646	2.18	ppb	#	70
41) 1,1,1-Trichloroethane	5.249	97	8096m	1.98	ppb		

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:39:17 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.096	73	18421	1.96	ppb		83
44) Cyclohexane	5.341	41	8917m	2.06	ppb		
46) Carbontetrachloride	5.530	117	6263m	1.94	ppb		
47) 1,1-Dichloropropene	5.548	75	7964	2.39	ppb		76
49) Benzene	5.859	78	24408	2.36	ppb		80
50) 1,2-Dichloroethane	5.895	62	10105	1.96	ppb		96
51) Iso-Butyl Alcohol	5.865	43	17670	38.84	ppb		79
52) n-Heptane	6.346	43	12482	1.85	ppb		90
53) 1-Butanol	6.834	56	24367	81.21	ppb		87
54) Trichloroethene	6.798	130	6479	2.33	ppb		86
55) Methylcyclohexane	7.048	55	11750	1.61	ppb		80
56) 1,2-Diclpropane	7.078	63	6808	1.58	ppb		99
57) Dibromomethane	7.230	93	3682	2.04	ppb		96
58) 1,4-Dioxane	7.291	88	2488	40.80	ppb	#	69
59) Methyl Methacrylate	7.316	69	5313	1.90	ppb	#	85
60) Bromodichloromethane	7.450	83	5630	1.73	ppb		89
61) 2-Nitropropane	7.730	41	4762	3.25	ppb	#	51
62) 2-Chloroethylvinyl Ether	7.864	63	3588	1.18	ppb		83
63) cis-1,3-Dichloropropene	7.992	75	8448	1.88	ppb		84
64) 4-Methyl-2-pentanone	8.206	43	14226	2.14	ppb		85
66) Toluene	8.370	91	25838	2.20	ppb		96
67) trans-1,3-Dichloropropene	8.639	75	7530	1.83	ppb		93
68) Ethyl Methacrylate	8.779	69	9017	1.98	ppb		84
69) 1,1,2-Trichloroethane	8.828	97	6367	2.34	ppb		87
72) Tetrachloroethene	8.962	164	4225	2.09	ppb	#	79
73) 2-Hexanone	9.114	43	10734	2.13	ppb	#	72
74) 1,3-Dichloropropane	8.998	76	10827	2.43	ppb	#	80
75) Dibromochloromethane	9.218	129	4369	1.69	ppb		96
76) N-Butyl Acetate	9.279	43	17839	1.73	ppb		97
77) 1,2-Dibromoethane	9.321	107	5105	2.11	ppb		95
78) Chlorobenzene	9.815	112	15235	2.12	ppb		96
79) 3-CBTF	9.834	180	7902	2.14	ppb		95
80) 4-CBTF	9.888	180	6548	2.03	ppb		89
81) 1,1,1,2-Tetrachloroethane	9.895	131	4843	1.81	ppb		87
82) Ethylbenzene	9.937	106	8585	2.25	ppb	#	76
83) (m+p)Xylene	10.053	106	17930	3.82	ppb		99
84) o-Xylene	10.407	106	9802	2.02	ppb	#	87
85) Styrene	10.419	104	15637	1.98	ppb		95
87) Bromoform	10.565	173	2814	1.73	ppb		99
88) 2-CBTF	10.650	180	7699	2.27	ppb		91
89) Isopropylbenzene	10.742	105	25862	2.25	ppb		96
90) Cyclohexanone	10.803	55	47213	42.39	ppb	#	70
91) trans-1,4-Dichloro-2-B...	11.053	53	3132	1.73	ppb		97
92) 1,1,2,2-Tetrachloroethane	10.998	83	7246	1.99	ppb		80
93) Bromobenzene	10.986	156	6403	2.18	ppb		90
94) 1,2,3-Trichloropropane	11.028	110	2769	2.25	ppb	#	76
95) n-Propylbenzene	11.096	91	31753	2.30	ppb		93
96) 2-Chlorotoluene	11.163	91	20478	2.43	ppb		95
97) 3-Chlorotoluene	11.211	91	20842	2.37	ppb		93
98) 4-Chlorotoluene	11.254	91	22662	2.39	ppb		89
99) 1,3,5-Trimethylbenzene	11.248	105	21078	2.16	ppb		93
100) tert-Butylbenzene	11.522	119	18651	2.09	ppb		91
101) 1,2,4-Trimethylbenzene	11.559	105	22622	2.26	ppb		79
102) 3,4-DCBTF	11.626	214	5965	2.30	ppb	#	73
103) sec-Butylbenzene	11.705	105	28024	2.27	ppb		99
104) p-Isopropyltoluene	11.827	119	22499	2.06	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:39:17 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	12736	2.19	ppb		91
106) 1,4-Dclbenz	11.864	146	11781	1.99	ppb		96
107) 2,4-DCBTF	11.912	214	4866	1.80	ppb	#	84
108) 2,5-DCBTF	11.955	214	5483	2.18	ppb	#	83
109) n-Butylbenzene	12.162	91	20753	2.05	ppb		90
110) 1,2-Dclbenz	12.162	146	12008	2.15	ppb		92
111) 1,2-Dibromo-3-chloropr...	12.790	157	2105	2.00	ppb	#	75
112) Trielution Dichlorotol...	12.906	125	34058	6.13	ppb		91
113) 1,3,5 Trichlorobenzene	12.961	180	8842	2.08	ppb	#	82
114) Coelution Dichlorotoluene	13.229	125	25245	4.02	ppb	#	90
115) 1,2,4-Tcbenzene	13.443	180	9396	2.24	ppb		88
116) Hexachlorobt	13.577	225	3413	1.98	ppb		83
117) Naphthalen	13.632	128	27552	1.88	ppb		96
118) 1,2,3-Tclbenzene	13.821	180	9086	1.97	ppb	#	79
119) 2,4,5-Trichlorotolene	14.406	159	7533	1.87	ppb		98
120) 2,3,6-Trichlorotoluene	14.491	159	7292m	1.91	ppb		

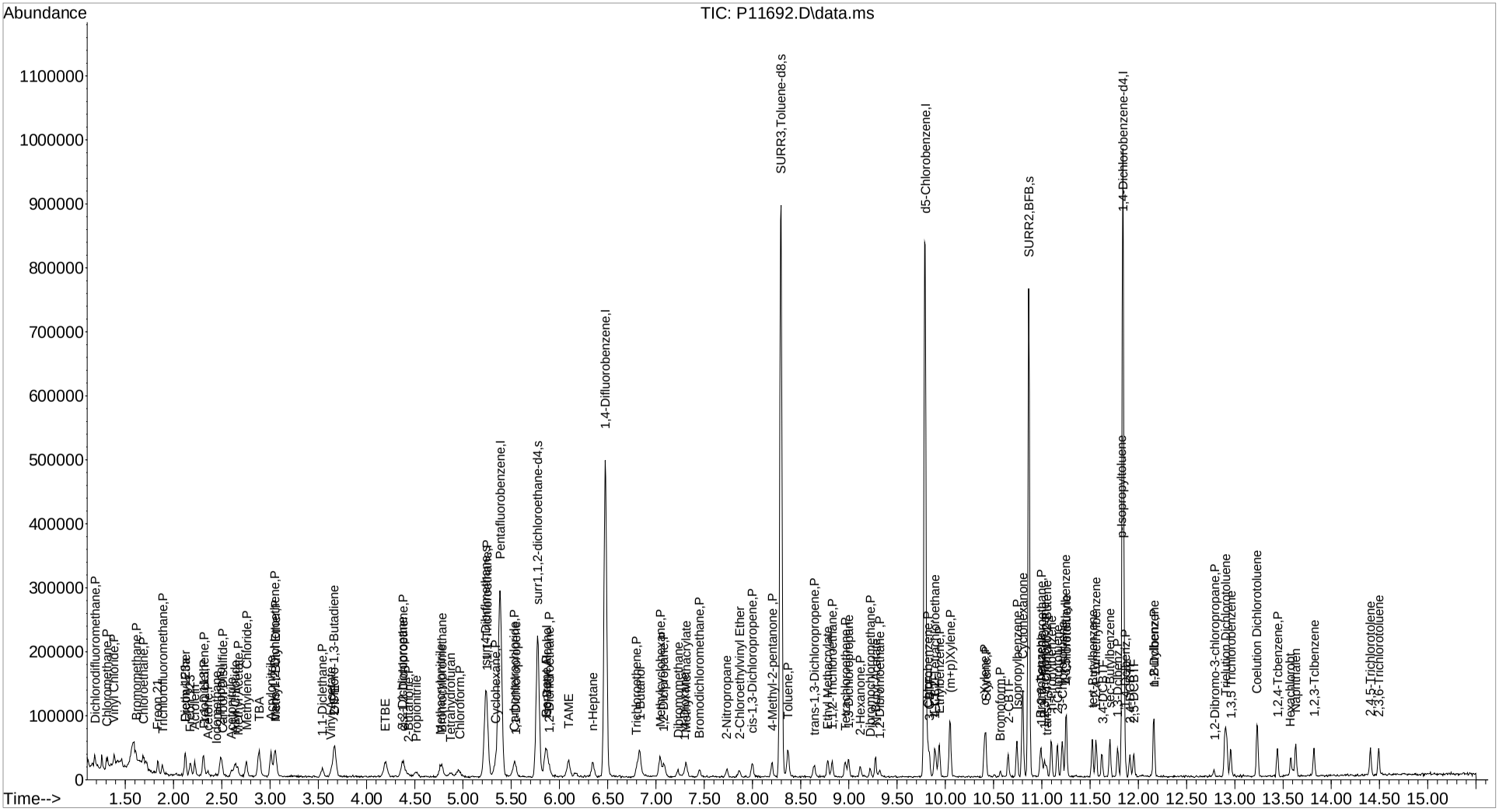
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11692.D
Acq On : 31 Aug 2017 5:42 pm
Operator : B.ALLGEIER
Sample : 2.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 09:39:17 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

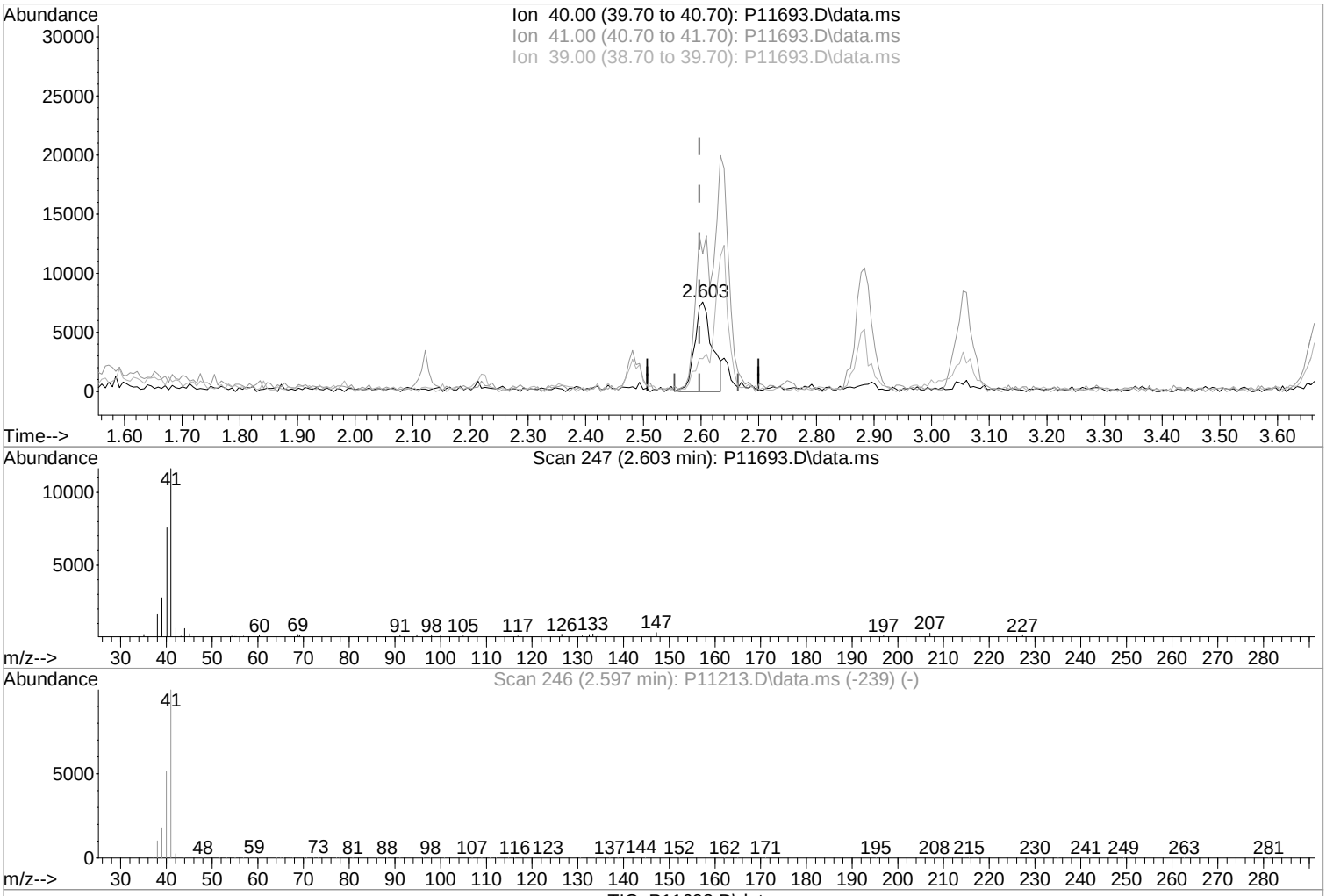
1st BA 09/01/17
2nd 09/05/17



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:01:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11693.D\data.ms

(19) Acetonitrile

2.603min (+0.006) 28.10 ppb m

response 15980

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	153.69#
39.00	35.40	36.65
0.00	0.00	0.00

Manual Integration:

After

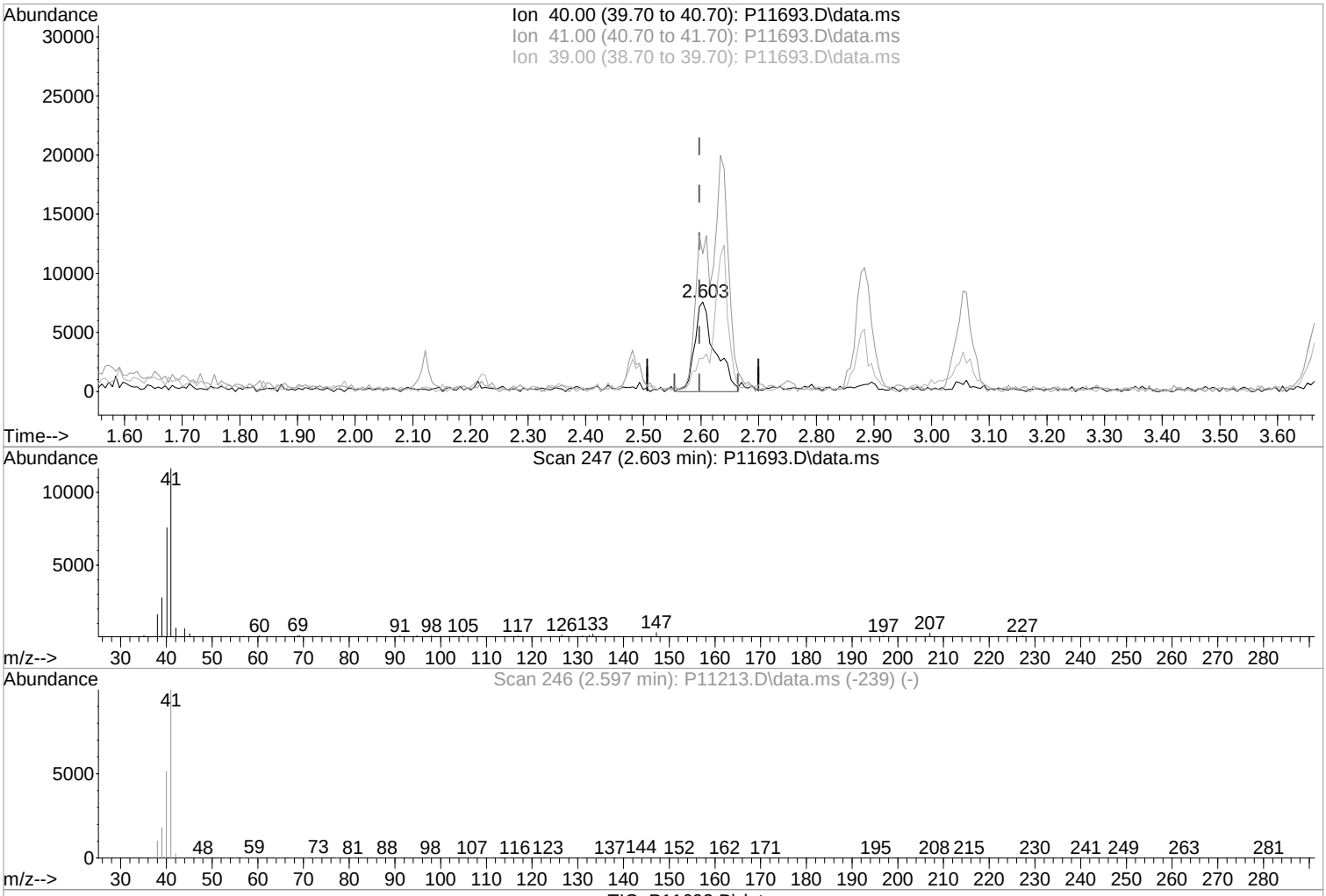
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:01:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11693.D\data.ms

(19) Acetonitrile

2.603min (+0.006) 32.83 ppb

response 18666

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	153.69#
39.00	35.40	36.65
0.00	0.00	0.00

Manual Integration:

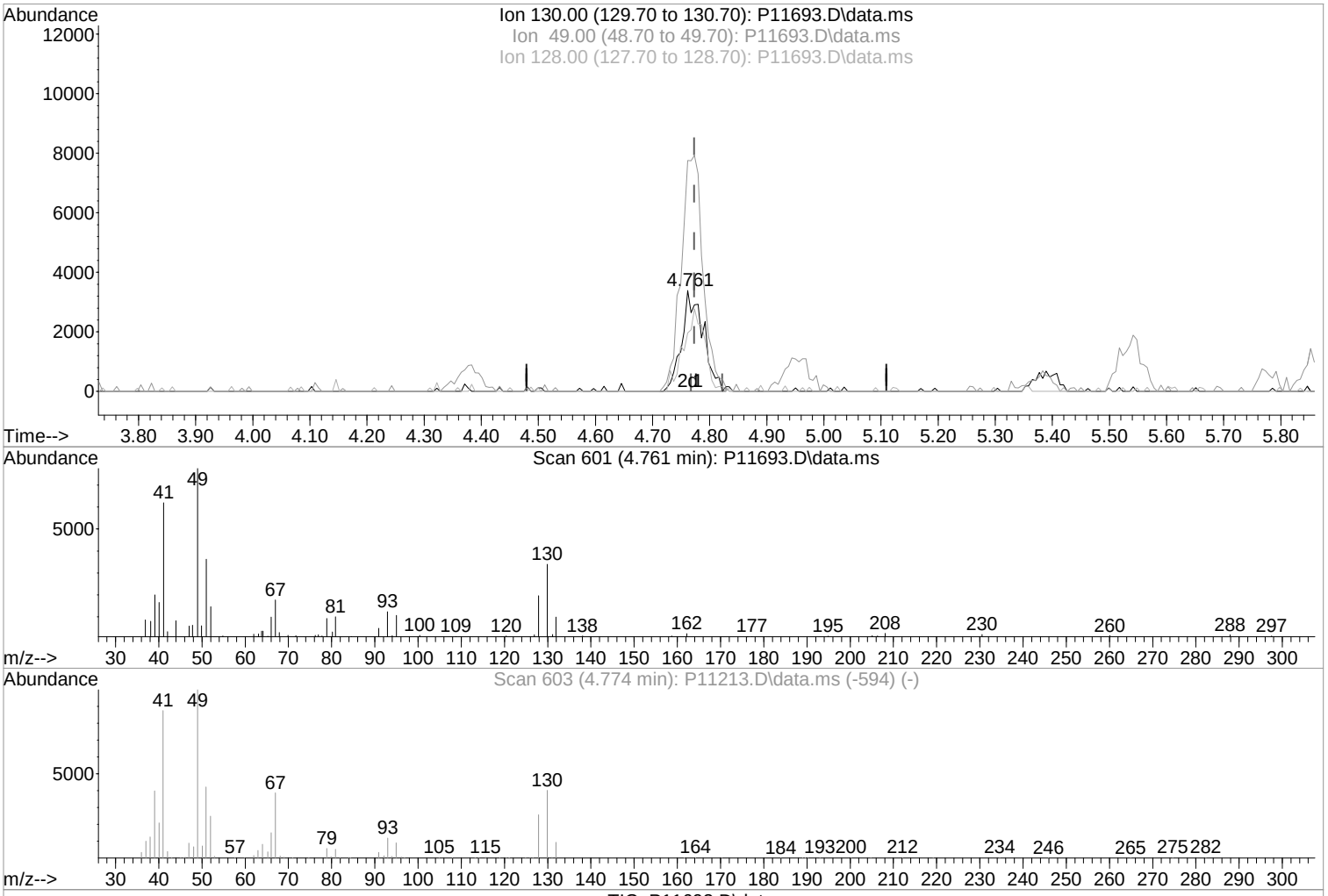
Before

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:01:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11693.D\data.ms

(37) Bromochloromethane

4.761min (-0.012) 4.72 ppb m

response 8895

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	228.45#
128.00	66.10	57.88
0.00	0.00	0.00

Manual Integration:

After

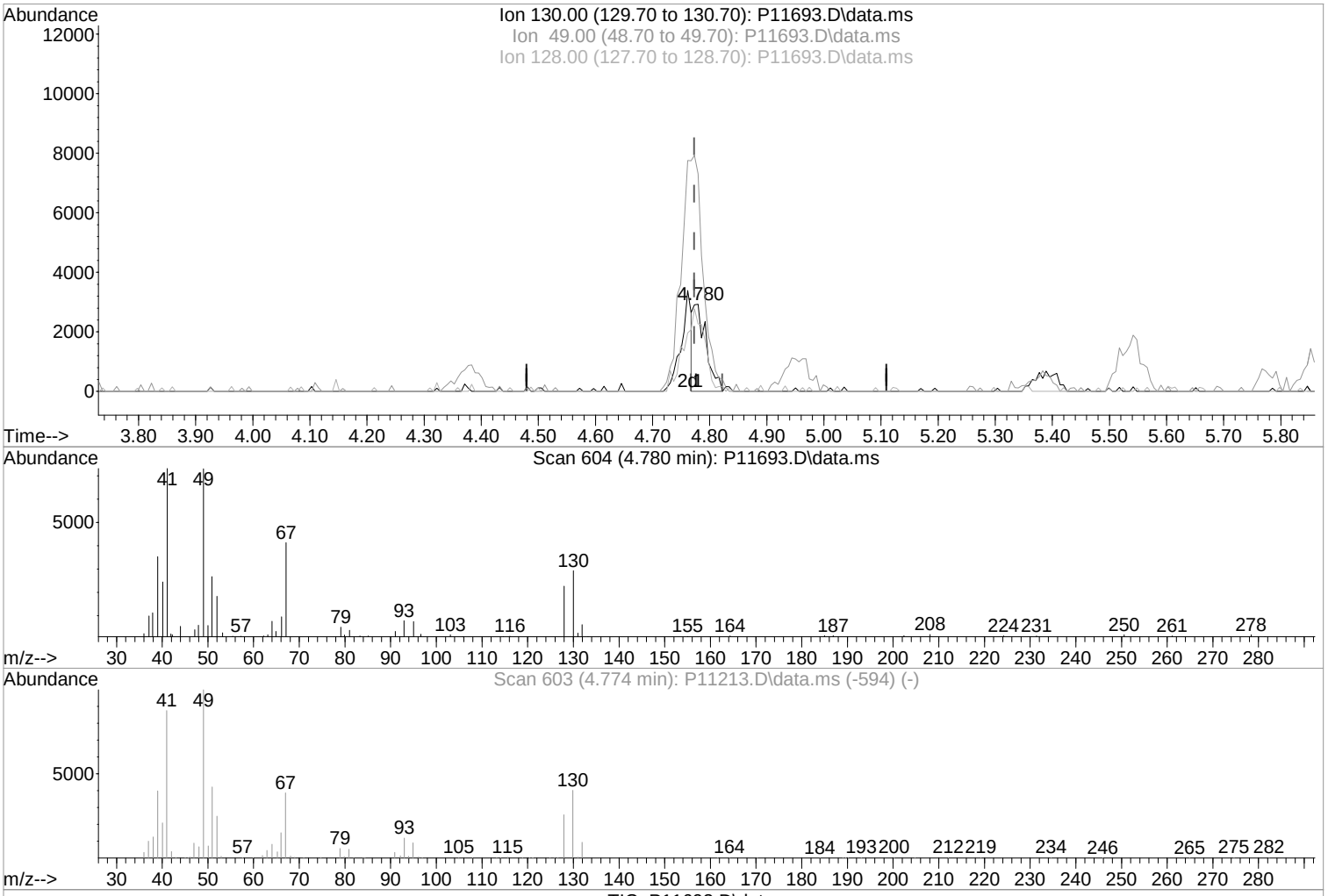
Poor integration.

09/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:01:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11693.D\data.ms

(37) Bromochloromethane

4.780min (+0.006) 2.44 ppb

response 4600

Ion	Exp%	Act%
130.00	100	100
49.00	255.50	249.37
128.00	66.10	77.50
0.00	0.00	0.00

Manual Integration:

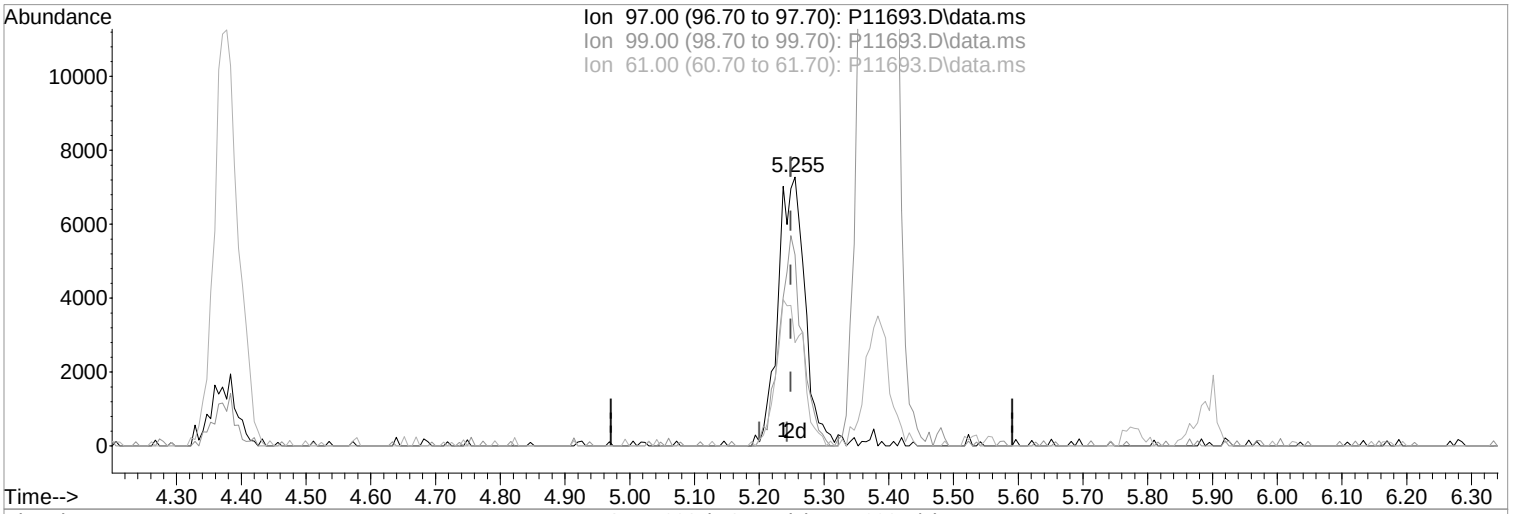
Before

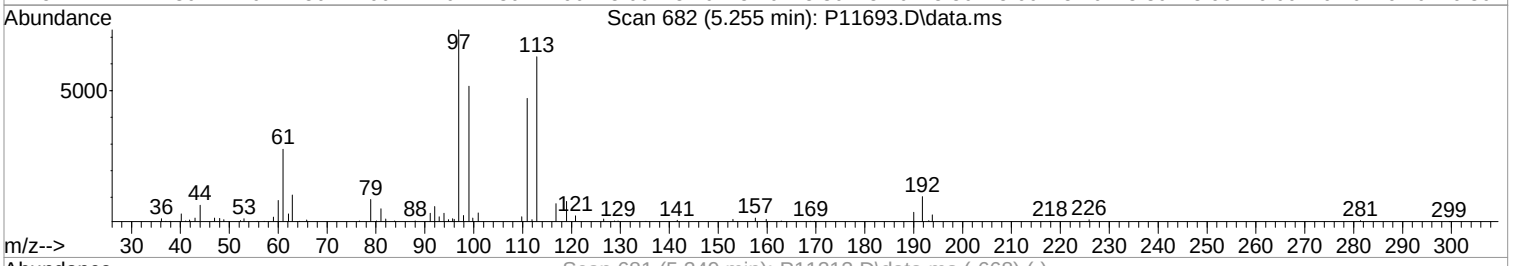
09/01/17

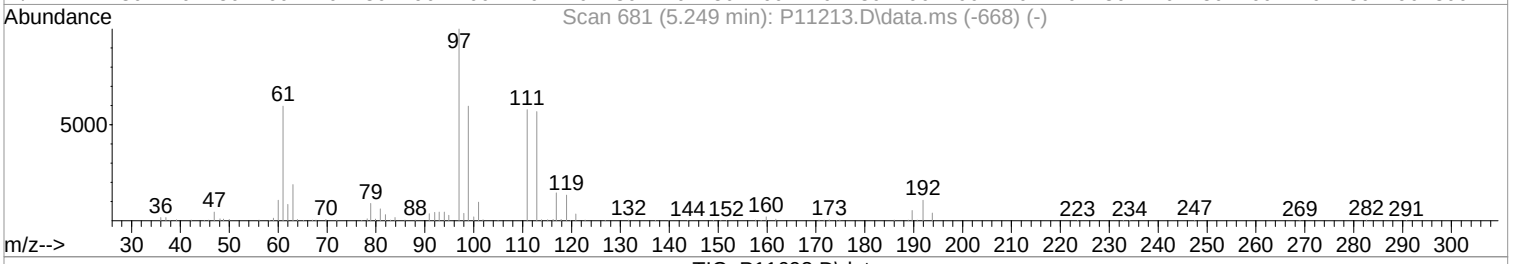
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:01:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11693.D\data.ms

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

5.255min (+0.006) 4.98 ppb m

response 20985

Ion	Exp%	Act%
97.00	100	100
99.00	59.70	71.02
61.00	59.70	38.47#
0.00	0.00	0.00

Manual Integration:

After

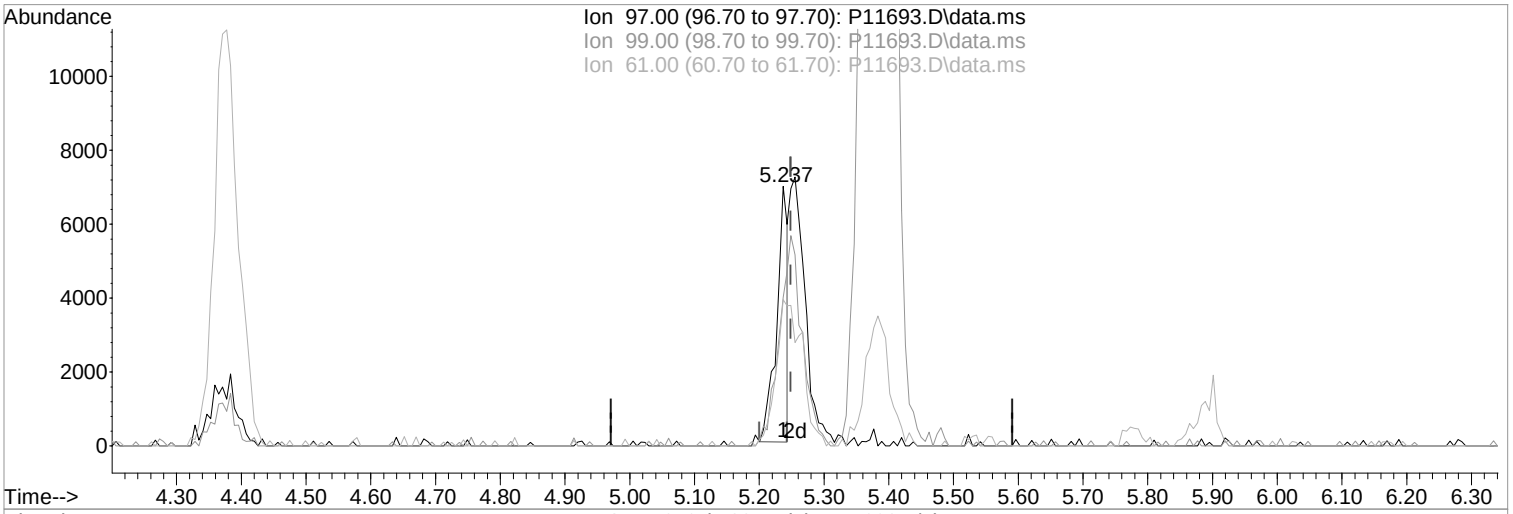
Poor integration.

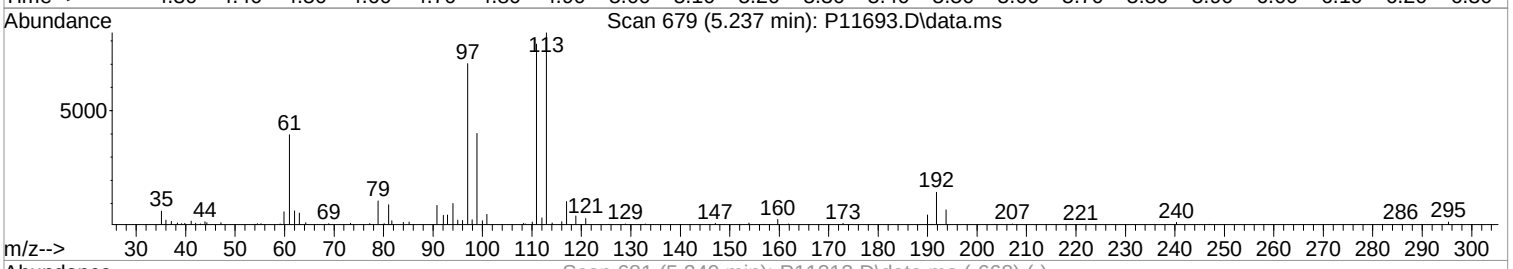
09/01/17

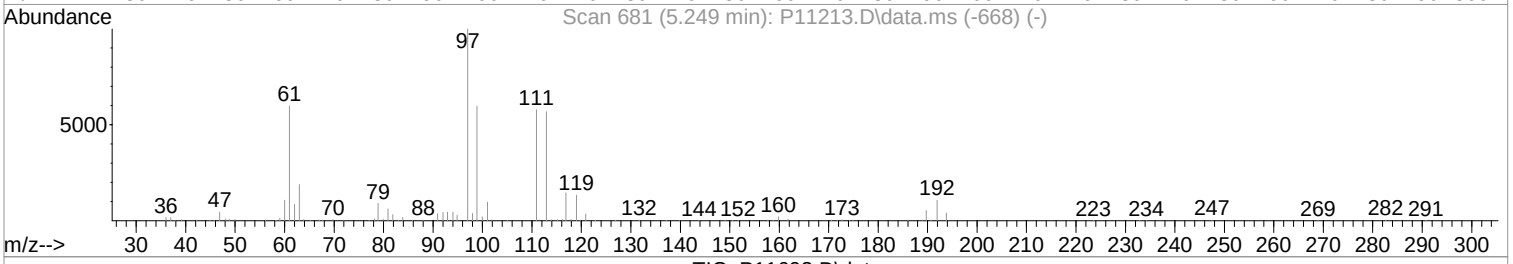
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:01:10 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11693.D\data.ms

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

5.237min (-0.012) 1.95 ppb

response 8200

Ion	Exp%	Act%
97.00	100	100
99.00	59.70	57.25
61.00	59.70	56.38
0.00	0.00	0.00

Manual Integration:

Before

09/01/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:41:40 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	245822	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	404072	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	365194	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	178968	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	22224	9.11	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 18.22%#				
48) surr1,1,2-dichloroetha...	5.779	65	38565	10.32	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 20.64%#				
65) SURR3,Toluene-d8	8.297	98	111821	11.08	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 22.16%#				
70) SURR2,BFB	10.864	95	42743	10.95	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 21.90%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	11692	3.18	ppb		93
3) Chloromethane	1.311	50	28316	3.66	ppb		97
4) Vinyl Chloride	1.384	62	19586	3.66	ppb		95
5) Bromomethane	1.609	94	10874	4.17	ppb		89
6) Chloroethane	1.683	64	11023	3.84	ppb		99
7) Freon 21	1.835	67	26805	4.85	ppb		99
8) Trichlorofluoromethane	1.884	101	20452	5.18	ppb		95
9) Diethyl Ether	2.122	59	18926	3.65	ppb	#	64
10) Freon 123a	2.122	67	17808	5.00	ppb		98
11) Freon 123	2.170	83	18820	5.06	ppb		95
12) Acrolein	2.219	56	29338	19.12	ppb		96
13) 1,1-Diclethene	2.304	96	12304	4.50	ppb	#	84
14) Freon 113	2.311	101	11032	4.63	ppb		95
15) Acetone	2.353	43	16342	5.76	ppb		95
16) 2-Propanol	2.481	45	58452	85.23	ppb		98
17) Iodomethane	2.439	142	5245	6.22	ppb		90
18) Carbon Disulfide	2.499	76	32844	3.99	ppb		96
19) Acetonitrile	2.603	40	15980m	28.10	ppb		
20) Allyl Chloride	2.634	76	6093	4.58	ppb	#	94
21) Methyl Acetate	2.664	43	40045	4.87	ppb		97
22) Methylene Chloride	2.756	84	13922	4.78	ppb	#	78
23) TBA	2.884	59	85034	80.97	ppb		90
24) Acrylonitrile	3.005	53	70900	20.12	ppb		99
25) Methyl-t-Butyl Ether	3.060	73	49051	5.04	ppb		92
26) trans-1,2-Dichloroethene	3.048	96	13651	4.71	ppb	#	76
28) 1,1-Diclethane	3.542	63	31642	4.22	ppb		92
29) Vinyl Acetate	3.646	86	3080	4.47	ppb	#	62
30) DIPE	3.664	45	81794	4.50	ppb		88
31) 2-Chloro-1,3-Butadiene	3.664	53	32271	3.77	ppb		87
32) ETBE	4.194	59	67785	3.97	ppb		92
33) 2,2-Dichloropropane	4.377	77	20337	5.00	ppb		92
34) cis-1,2-Dichloroethene	4.377	96	16765	5.27	ppb	#	56
35) 2-Butanone	4.426	43	18823	4.66	ppb		96
36) Propionitrile	4.505	54	27818	19.30	ppb		93
37) Bromochloromethane	4.761	130	8895m	4.72	ppb		
38) Methacrylonitrile	4.780	67	10423	4.95	ppb	#	67
39) Tetrahydrofuran	4.865	42	11551	4.33	ppb		71
40) Chloroform	4.956	83	24699	5.40	ppb		79
41) 1,1,1-Trichloroethane	5.255	97	20985m	4.98	ppb		

1st BA 09/01/17
2nd MR 09/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:41:40 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.090	73	48284	4.99	ppb		97
44) Cyclohexane	5.340	41	22185	4.94	ppb	#	60
46) Carbontetrachloride	5.523	117	15350	4.58	ppb	#	71
47) 1,1-Dichloropropene	5.535	75	18272	5.27	ppb		88
49) Benzene	5.853	78	60884	5.67	ppb		90
50) 1,2-Dichloroethane	5.889	62	27713	5.18	ppb		98
51) Iso-Butyl Alcohol	5.859	43	44456	94.04	ppb		98
52) n-Heptane	6.346	43	30738	4.39	ppb		75
53) 1-Butanol	6.828	56	59099	189.54	ppb		82
54) Trichloroethene	6.804	130	15557	5.38	ppb		88
55) Methylcyclohexane	7.047	55	28656	3.78	ppb		83
56) 1,2-Diclpropane	7.078	63	18525	4.14	ppb		87
57) Dibromomethane	7.224	93	9332	4.97	ppb		88
58) 1,4-Dioxane	7.291	88	7041	111.13	ppb	#	76
59) Methyl Methacrylate	7.316	69	14403	4.97	ppb		93
60) Bromodichloromethane	7.450	83	15715	4.64	ppb		91
61) 2-Nitropropane	7.730	41	13403	8.80	ppb		88
62) 2-Chloroethylvinyl Ether	7.858	63	9777	3.08	ppb		87
63) cis-1,3-Dichloropropene	7.992	75	22986	4.93	ppb		91
64) 4-Methyl-2-pentanone	8.200	43	33027	4.78	ppb		88
66) Toluene	8.370	91	65514	5.36	ppb		98
67) trans-1,3-Dichloropropene	8.639	75	20326	4.76	ppb		94
68) Ethyl Methacrylate	8.779	69	23620	4.99	ppb		95
69) 1,1,2-Trichloroethane	8.828	97	13867	4.91	ppb		95
72) Tetrachloroethene	8.962	164	10484	4.93	ppb		84
73) 2-Hexanone	9.120	43	24748	4.66	ppb		80
74) 1,3-Dichloropropane	8.992	76	28984	6.20	ppb	#	83
75) Dibromochloromethane	9.224	129	11177	4.10	ppb		94
76) N-Butyl Acetate	9.273	43	46776	4.31	ppb		85
77) 1,2-Dibromoethane	9.321	107	14325	5.65	ppb		89
78) Chlorobenzene	9.815	112	41413	5.49	ppb		97
79) 3-CBTF	9.833	180	19165	4.94	ppb	#	83
80) 4-CBTF	9.888	180	16639	4.91	ppb		90
81) 1,1,1,2-Tetrachloroethane	9.900	131	13463	4.77	ppb		89
82) Ethylbenzene	9.937	106	22097	5.51	ppb	#	81
83) (m+p)Xylene	10.047	106	52925	10.72	ppb		98
84) o-Xylene	10.406	106	25951	5.09	ppb		98
85) Styrene	10.419	104	43630	5.26	ppb		97
87) Bromoform	10.565	173	6729	3.96	ppb		98
88) 2-CBTF	10.650	180	19054	5.37	ppb		97
89) Isopropylbenzene	10.742	105	66431	5.52	ppb		96
90) Cyclohexanone	10.803	55	122769	105.34	ppb		77
91) trans-1,4-Dichloro-2-B...	11.047	53	7080	3.73	ppb		81
92) 1,1,2,2-Tetrachloroethane	10.998	83	18842	4.94	ppb		95
93) Bromobenzene	10.986	156	17282	5.63	ppb		98
94) 1,2,3-Trichloropropane	11.028	110	6928	5.37	ppb	#	71
95) n-Propylbenzene	11.095	91	78730	5.44	ppb		98
96) 2-Chlorotoluene	11.162	91	48650	5.52	ppb		98
97) 3-Chlorotoluene	11.211	91	53602	5.82	ppb		93
98) 4-Chlorotoluene	11.254	91	55108	5.56	ppb		92
99) 1,3,5-Trimethylbenzene	11.254	105	56647	5.54	ppb		90
100) tert-Butylbenzene	11.522	119	49007	5.26	ppb		94
101) 1,2,4-Trimethylbenzene	11.559	105	57154	5.45	ppb		84
102) 3,4-DCBTF	11.626	214	13648	5.03	ppb	#	84
103) sec-Butylbenzene	11.705	105	75740	5.87	ppb		94
104) p-Isopropyltoluene	11.827	119	60290	5.29	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 09:41:40 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	31189	5.12	ppb		93
106) 1,4-Dclbenz	11.857	146	32143	5.19	ppb		93
107) 2,4-DCBTF	11.912	214	13303	5.33	ppb		95
108) 2,5-DCBTF	11.955	214	14539	5.53	ppb		91
109) n-Butylbenzene	12.156	91	52043	4.91	ppb		97
110) 1,2-Dclbenz	12.162	146	31702	5.42	ppb		96
111) 1,2-Dibromo-3-chloropr...	12.784	157	4651	4.22	ppb		87
112) Trielution Dichlorotol...	12.906	125	90917	15.63	ppb		95
113) 1,3,5 Trichlorobenzene	12.961	180	23077	5.19	ppb		97
114) Coelution Dichlorotoluene	13.235	125	65693	10.00	ppb		95
115) 1,2,4-Tcbenzene	13.442	180	23664	5.40	ppb		90
116) Hexachlorobt	13.583	225	9016	5.01	ppb		83
117) Naphthalen	13.631	128	74888	4.87	ppb		97
118) 1,2,3-Tclbenzene	13.820	180	24053	4.99	ppb		93
119) 2,4,5-Trichlorotolene	14.406	159	18749	4.44	ppb	#	88
120) 2,3,6-Trichlorotoluene	14.491	159	18951	4.75	ppb		93

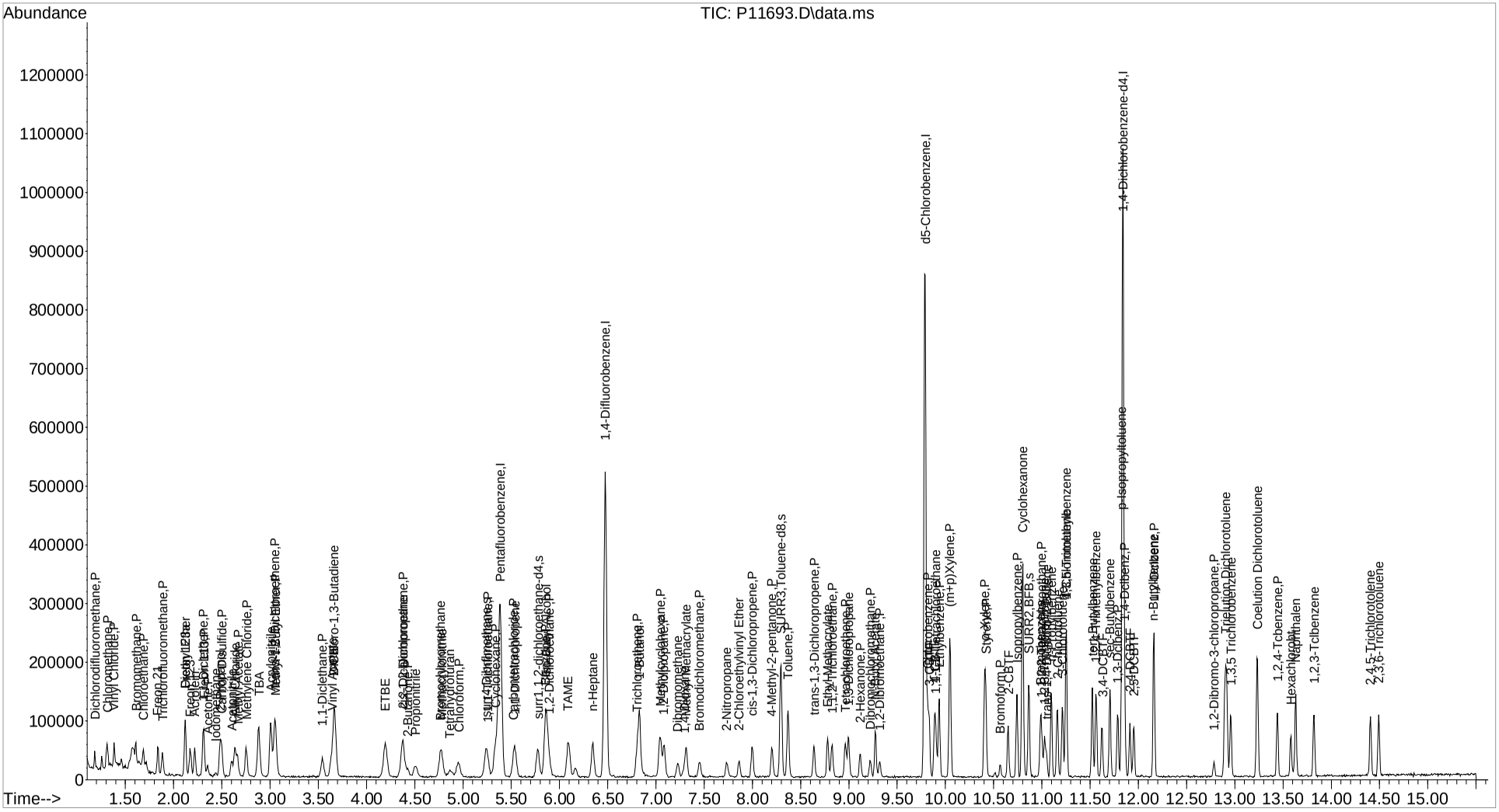
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11693.D
Acq On : 31 Aug 2017 6:04 pm
Operator : B.ALLGEIER
Sample : 5.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

1st BA 09/01/17
2nd 09/05/17

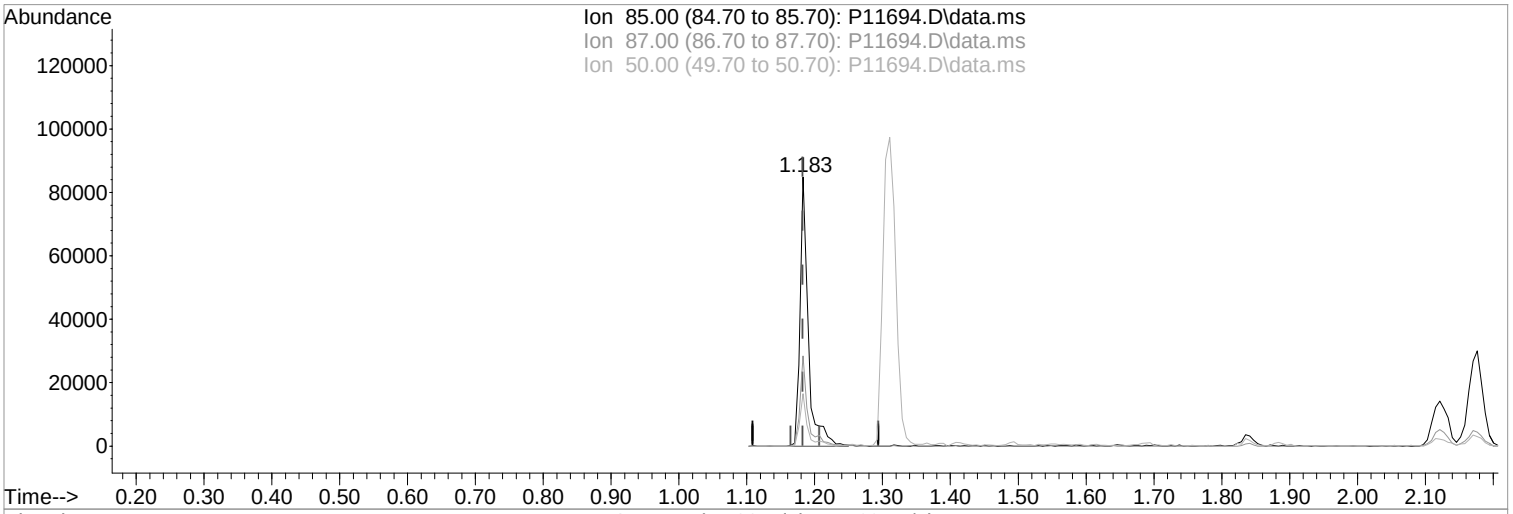
Quant Time: Sep 01 09:41:40 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

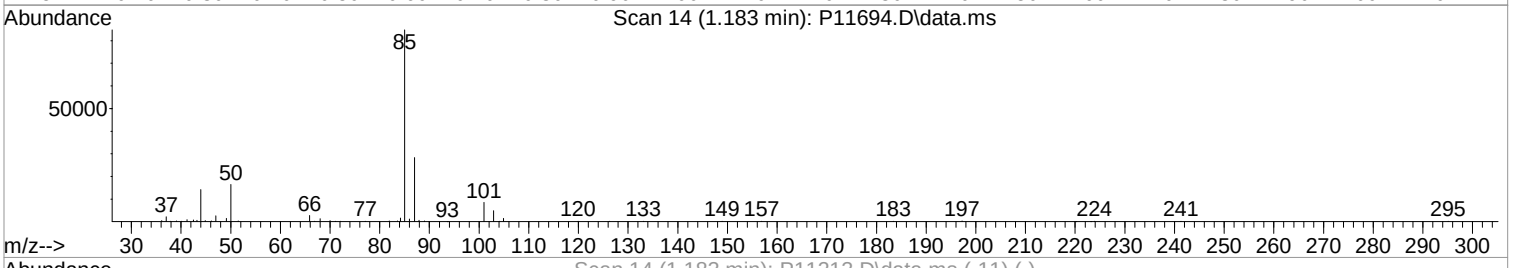


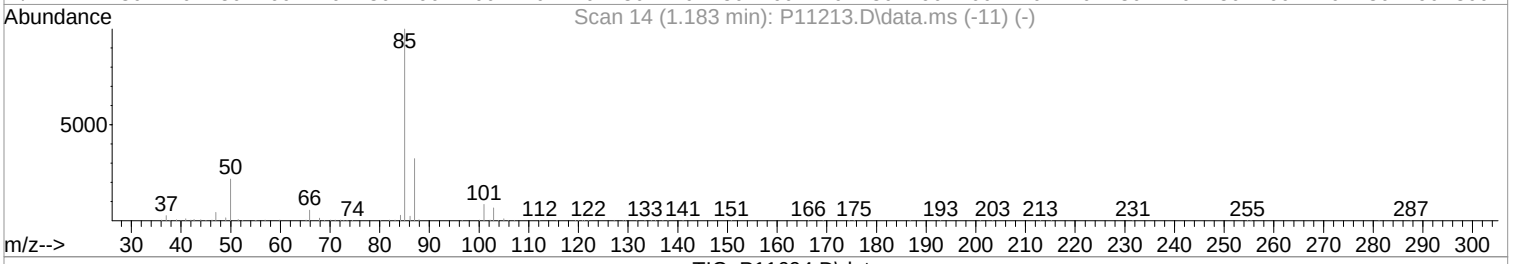
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11694.D
Acq On : 31 Aug 2017 6:26 pm
Operator : B.ALLGEIER
Sample : 20.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 09:01:13 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11694.D\data.ms

(2) Dichlorodifluoromethane (P)

1.183min (0.000) 19.54 ppb m

response 72962

Ion	Exp%	Act%
85.00	100	100
87.00	32.40	33.48
50.00	21.60	19.46
0.00	0.00	0.00

Manual Integration:

After

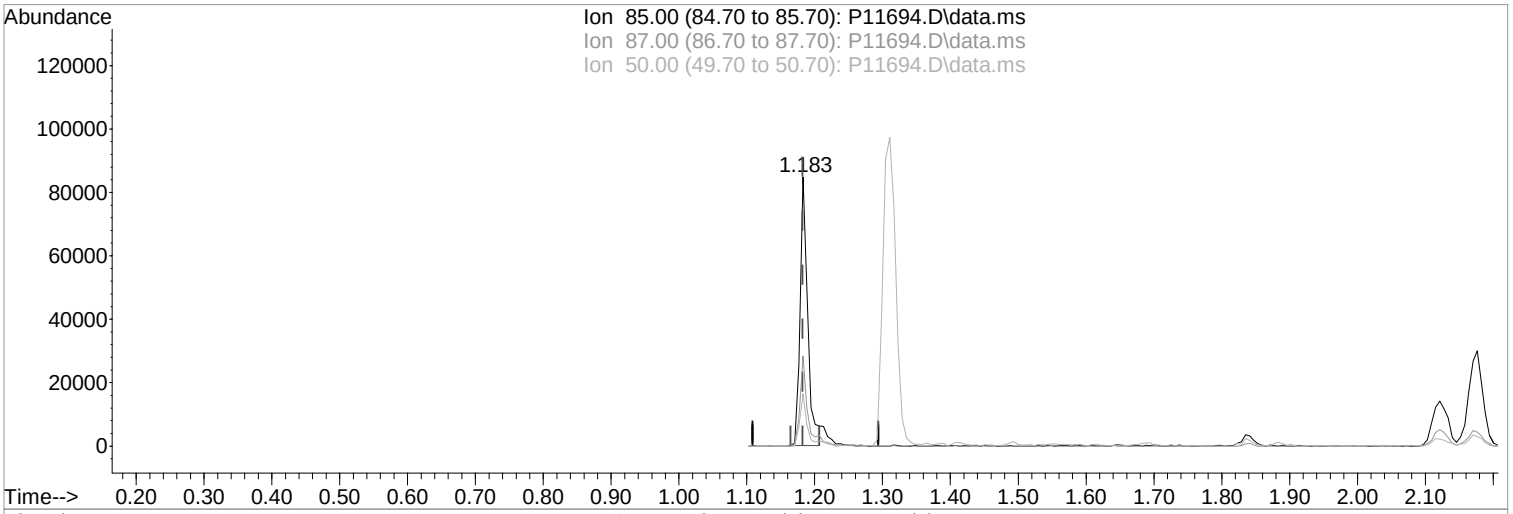
Poor integration.

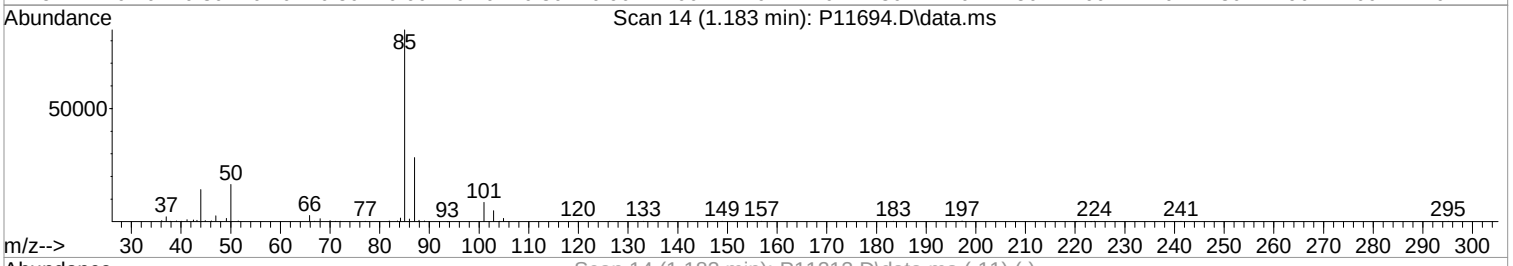
09/01/17

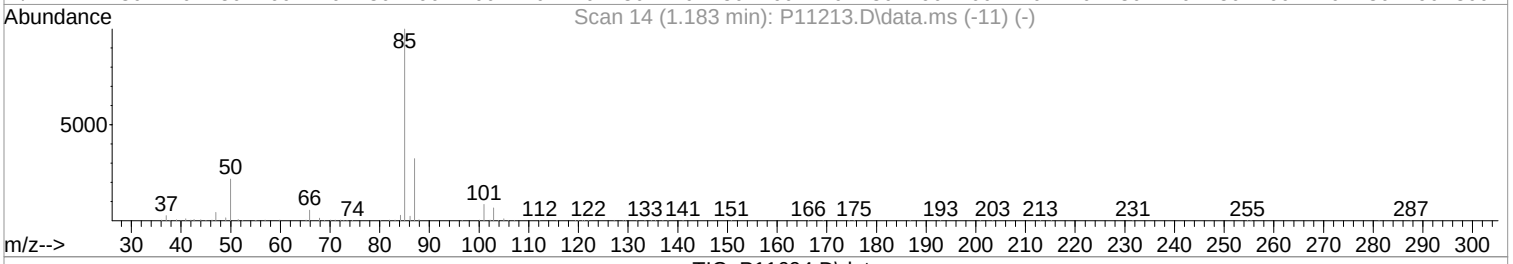
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11694.D
Acq On : 31 Aug 2017 6:26 pm
Operator : B.ALLGEIER
Sample : 20.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 09:01:13 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11694.D\data.ms

(2) Dichlorodifluoromethane (P)

1.183min (0.000) 18.14 ppb

response 67745

Ion	Exp%	Act%
85.00	100	100
87.00	32.40	33.48
50.00	21.60	19.46
0.00	0.00	0.00

Manual Integration:

Before

09/01/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11694.D
Acq On : 31 Aug 2017 6:26 pm
Operator : B.ALLGEIER
Sample : 20.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 09:46:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	249652	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	400391	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	351019	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	174511	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	41985	17.36	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 34.72%#				
48) surr1,1,2-dichloroetha...	5.773	65	67709	18.28	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 36.56%#				
65) SURR3,Toluene-d8	8.297	98	194624	19.47	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 38.94%#				
70) SURR2,BFB	10.864	95	73277	18.94	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 37.88%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	72962m	19.54	ppb		
3) Chloromethane	1.311	50	127747	16.26	ppb		92
4) Vinyl Chloride	1.384	62	87741	16.16	ppb		98
5) Bromomethane	1.609	94	41607	18.52	ppb		98
6) Chloroethane	1.689	64	46898	16.11	ppb		83
7) Freon 21	1.835	67	103599	18.47	ppb		100
8) Trichlorofluoromethane	1.890	101	90208	22.49	ppb		98
9) Diethyl Ether	2.121	59	78347	14.90	ppb		85
10) Freon 123a	2.121	67	61202	16.91	ppb		94
11) Freon 123	2.176	83	67577	17.88	ppb		97
12) Acrolein	2.219	56	122257	78.44	ppb		91
13) 1,1-Diclethene	2.310	96	52120	18.76	ppb	#	82
14) Freon 113	2.317	101	49115	20.29	ppb		87
15) Acetone	2.353	43	62365	21.65	ppb		87
16) 2-Propanol	2.481	45	251150	360.57	ppb		93
17) Iodomethane	2.438	142	44569	17.02	ppb		95
18) Carbon Disulfide	2.499	76	141225	16.89	ppb		98
19) Acetonitrile	2.597	40	52807	91.45	ppb	#	86
20) Allyl Chloride	2.640	76	26836	19.86	ppb	#	90
21) Methyl Acetate	2.658	43	161540	19.36	ppb		97
22) Methylene Chloride	2.755	84	59150	20.00	ppb		89
23) TBA	2.884	59	348209	326.50	ppb		90
24) Acrylonitrile	3.005	53	282677	79.00	ppb		99
25) Methyl-t-Butyl Ether	3.054	73	211495	21.42	ppb		86
26) trans-1,2-Dichloroethene	3.048	96	57938	19.68	ppb	#	76
28) 1,1-Diclethane	3.542	63	126821	16.65	ppb		96
29) Vinyl Acetate	3.639	86	11501	16.44	ppb	#	52
30) DIPE	3.670	45	294412	15.97	ppb		96
31) 2-Chloro-1,3-Butadiene	3.664	53	129931	14.96	ppb		79
32) ETBE	4.194	59	247471	14.29	ppb		86
33) 2,2-Dichloropropane	4.371	77	86934	21.07	ppb		94
34) cis-1,2-Dichloroethene	4.383	96	66947	20.71	ppb	#	76
35) 2-Butanone	4.426	43	79476	19.36	ppb		92
36) Propionitrile	4.505	54	114710	78.35	ppb		99
37) Bromochloromethane	4.773	130	38532	20.15	ppb	#	78
38) Methacrylonitrile	4.767	67	38538	18.01	ppb	#	82
39) Tetrahydrofuran	4.859	42	45244	16.68	ppb		79
40) Chloroform	4.956	83	100563	21.66	ppb		91
41) 1,1,1-Trichloroethane	5.249	97	87921	20.55	ppb		86

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11694.D
Acq On : 31 Aug 2017 6:26 pm
Operator : B.ALLGEIER
Sample : 20.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 09:46:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.096	73	189234	19.27	ppb		89
44) Cyclohexane	5.340	41	73542	16.53	ppb		89
46) Carbontetrachloride	5.523	117	69439	20.92	ppb		87
47) 1,1-Dichloropropene	5.542	75	78731	22.93	ppb		92
49) Benzene	5.859	78	249311	23.42	ppb		87
50) 1,2-Dichloroethane	5.895	62	99792	18.83	ppb		96
51) Iso-Butyl Alcohol	5.865	43	187642	400.56	ppb		100
52) n-Heptane	6.346	43	128750	18.54	ppb		85
53) 1-Butanol	6.828	56	256923	831.57	ppb		84
54) Trichloroethene	6.803	130	63172	22.03	ppb		94
55) Methylcyclohexane	7.041	55	101782	13.56	ppb		82
56) 1,2-Diclpropane	7.084	63	78978	17.81	ppb		98
57) Dibromomethane	7.224	93	38290	20.56	ppb		87
58) 1,4-Dioxane	7.285	88	24960	397.56	ppb	#	72
59) Methyl Methacrylate	7.309	69	60950	21.22	ppb		95
60) Bromodichloromethane	7.456	83	67009	19.98	ppb		96
61) 2-Nitropropane	7.730	41	54599	36.17	ppb		89
62) 2-Chloroethylvinyl Ether	7.858	63	43622	13.88	ppb		88
63) cis-1,3-Dichloropropene	7.998	75	97154	21.04	ppb		93
64) 4-Methyl-2-pentanone	8.206	43	140258	20.47	ppb		88
66) Toluene	8.370	91	269219	22.24	ppb		97
67) trans-1,3-Dichloropropene	8.638	75	89479	21.13	ppb		99
68) Ethyl Methacrylate	8.779	69	105541	22.52	ppb		86
69) 1,1,2-Trichloroethane	8.827	97	56373	20.15	ppb		95
72) Tetrachloroethene	8.962	164	44085	21.58	ppb		91
73) 2-Hexanone	9.114	43	100966	19.80	ppb		88
74) 1,3-Dichloropropane	8.998	76	113171	25.19	ppb		88
75) Dibromochloromethane	9.224	129	51389	19.63	ppb		96
76) N-Butyl Acetate	9.273	43	206768	19.81	ppb		86
77) 1,2-Dibromoethane	9.321	107	58436	23.97	ppb		97
78) Chlorobenzene	9.815	112	165217	22.77	ppb		95
79) 3-CBTF	9.833	180	57754	15.48	ppb		91
80) 4-CBTF	9.888	180	53578	16.45	ppb		92
81) 1,1,1,2-Tetrachloroethane	9.900	131	53835	19.86	ppb		90
82) Ethylbenzene	9.937	106	88945	23.07	ppb		94
83) (m+p)Xylene	10.047	106	220886	46.55	ppb		95
84) o-Xylene	10.406	106	107124	21.86	ppb		92
85) Styrene	10.419	104	182491	22.87	ppb		95
87) Bromoform	10.571	173	30437	18.38	ppb		97
88) 2-CBTF	10.650	180	60761	17.55	ppb		97
89) Isopropylbenzene	10.742	105	285847	24.34	ppb		97
90) Cyclohexanone	10.803	55	501544	441.33	ppb		83
91) trans-1,4-Dichloro-2-B...	11.047	53	31711	17.13	ppb		91
92) 1,1,2,2-Tetrachloroethane	10.998	83	79583	21.39	ppb		95
93) Bromobenzene	10.986	156	65469	21.89	ppb	#	86
94) 1,2,3-Trichloropropane	11.028	110	29989	23.85	ppb		97
95) n-Propylbenzene	11.095	91	333296	23.62	ppb		97
96) 2-Chlorotoluene	11.162	91	201807	23.49	ppb		96
97) 3-Chlorotoluene	11.211	91	183564	20.45	ppb		94
98) 4-Chlorotoluene	11.254	91	224025	23.18	ppb		97
99) 1,3,5-Trimethylbenzene	11.254	105	232964	23.35	ppb		95
100) tert-Butylbenzene	11.522	119	205008	22.55	ppb		98
101) 1,2,4-Trimethylbenzene	11.565	105	239378	23.43	ppb		95
102) 3,4-DCBTF	11.626	214	48335	18.28	ppb		89
103) sec-Butylbenzene	11.705	105	311503	24.74	ppb		96
104) p-Isopropyltoluene	11.827	119	248628	22.35	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11694.D
Acq On : 31 Aug 2017 6:26 pm
Operator : B.ALLGEIER
Sample : 20.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 09:46:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	129550	21.80	ppb		95
106) 1,4-Dclbenz	11.857	146	129850	21.50	ppb		95
107) 2,4-DCBTF	11.912	214	43130	18.61	ppb		94
108) 2,5-DCBTF	11.955	214	48416	18.87	ppb		91
109) n-Butylbenzene	12.162	91	236539	22.87	ppb		98
110) 1,2-Dclbenz	12.162	146	123187	21.61	ppb		99
111) 1,2-Dibromo-3-chloropr...	12.784	157	19935	18.53	ppb		96
112) Trielution Dichlorotol...	12.906	125	317768	56.04	ppb	#	94
113) 1,3,5 Trichlorobenzene	12.961	180	80608	18.58	ppb		93
114) Coelution Dichlorotoluene	13.235	125	248990	38.86	ppb		98
115) 1,2,4-Tcbenzene	13.442	180	90352	21.13	ppb		95
116) Hexachlorobt	13.583	225	39583	22.56	ppb		92
117) Naphthalen	13.631	128	309130	20.64	ppb		98
118) 1,2,3-Tclbenzene	13.820	180	94312	20.07	ppb		97
119) 2,4,5-Trichlorotolene	14.406	159	71179	17.29	ppb		93
120) 2,3,6-Trichlorotoluene	14.491	159	66439	17.06	ppb		96

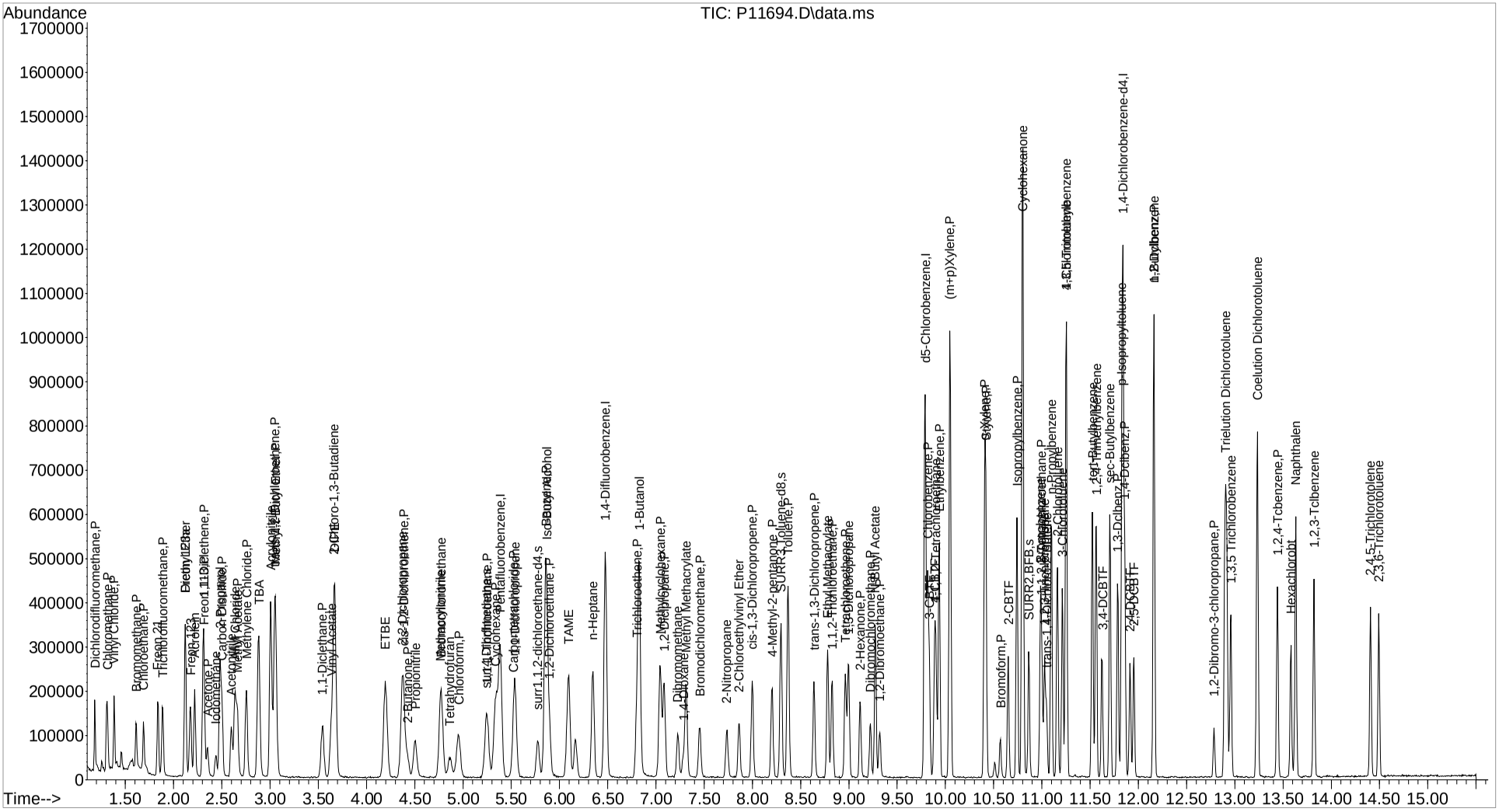
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11694.D
Acq On : 31 Aug 2017 6:26 pm
Operator : B.ALLGEIER
Sample : 20.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

1st BA 09/01/17
2nd 09/05/17

Quant Time: Sep 01 09:46:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11695.D
Acq On : 31 Aug 2017 6:48 pm
Operator : B.ALLGEIER
Sample : 50.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 09:01:16 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	247078	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.480	114	398163	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	358323	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	181619	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	113576	47.23	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.46%				
48) surr1,1,2-dichloroetha...	5.767	65	179904	48.84	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.68%				
65) SURR3,Toluene-d8	8.297	98	528316	53.15	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.30%				
70) SURR2,BFB	10.864	95	209624	54.49	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	166550	45.07	ppb		95
3) Chloromethane	1.311	50	312662	40.21	ppb		92
4) Vinyl Chloride	1.384	62	208851	38.86	ppb		97
5) Bromomethane	1.609	94	80902	39.63	ppb		98
6) Chloroethane	1.689	64	115666	40.14	ppb		98
7) Freon 21	1.835	67	272206	49.05	ppb		99
8) Trichlorofluoromethane	1.884	101	199792	50.33	ppb		98
9) Diethyl Ether	2.121	59	184996	35.54	ppb		77
10) Freon 123a	2.121	67	160565	44.83	ppb		98
11) Freon 123	2.176	83	180606	48.30	ppb		99
12) Acrolein	2.219	56	269470	174.69	ppb		97
13) 1,1-Diclethene	2.310	96	121837	44.32	ppb	#	78
14) Freon 113	2.310	101	108158	45.15	ppb		85
15) Acetone	2.353	43	151325	53.08	ppb		94
16) 2-Propanol	2.487	45	617927	896.38	ppb		95
17) Iodomethane	2.438	142	148015	44.99	ppb		89
18) Carbon Disulfide	2.499	76	349663	42.26	ppb		97
19) Acetonitrile	2.597	40	148803	260.37	ppb		95
20) Allyl Chloride	2.640	76	64393	48.14	ppb	#	88
21) Methyl Acetate	2.658	43	389324	47.15	ppb		98
22) Methylene Chloride	2.755	84	137866	47.09	ppb		92
23) TBA	2.884	59	949895	899.94	ppb		90
24) Acrylonitrile	3.005	53	710753	200.69	ppb		98
25) Methyl-t-Butyl Ether	3.060	73	520693	53.27	ppb		90
26) trans-1,2-Dichloroethene	3.048	96	135285	46.43	ppb	#	85
28) 1,1-Diclethane	3.542	63	305180	40.48	ppb		95
29) Vinyl Acetate	3.633	86	30765	44.43	ppb	#	51
30) DIPE	3.670	45	799921	43.83	ppb		96
31) 2-Chloro-1,3-Butadiene	3.670	53	325155	37.82	ppb		84
32) ETBE	4.200	59	648356	37.82	ppb		90
33) 2,2-Dichloropropane	4.371	77	204141	49.98	ppb		98
34) cis-1,2-Dichloroethene	4.377	96	156714	48.97	ppb	#	78
35) 2-Butanone	4.426	43	198905	48.96	ppb		89
36) Propionitrile	4.505	54	292733	202.02	ppb		94
37) Bromochloromethane	4.773	130	92469	48.85	ppb	#	77
38) Methacrylonitrile	4.779	67	96166	45.41	ppb	#	76
39) Tetrahydrofuran	4.859	42	121202	45.16	ppb		83
40) Chloroform	4.956	83	243207	52.93	ppb		92
41) 1,1,1-Trichloroethane	5.249	97	210047	49.61	ppb		94

1st BA 09/01/17
2nd MR 09/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11695.D
Acq On : 31 Aug 2017 6:48 pm
Operator : B.ALLGEIER
Sample : 50.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 09:01:16 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.096	73	486976	50.11	ppb		92
44) Cyclohexane	5.340	41	196109	44.33	ppb		88
46) Carbontetrachloride	5.529	117	162784	49.32	ppb		98
47) 1,1-Dichloropropene	5.542	75	192059	56.24	ppb		94
49) Benzene	5.859	78	579203	54.72	ppb		88
50) 1,2-Dichloroethane	5.895	62	250660	47.56	ppb		99
51) Iso-Butyl Alcohol	5.865	43	516953	1109.71	ppb		96
52) n-Heptane	6.346	43	295792	42.83	ppb		87
53) 1-Butanol	6.828	56	682285	2220.68	ppb		82
54) Trichloroethene	6.803	130	148357	52.03	ppb		95
55) Methylcyclohexane	7.041	55	277164	37.14	ppb		82
56) 1,2-Diclpropane	7.084	63	184895	41.92	ppb		97
57) Dibromomethane	7.224	93	90263	48.74	ppb		94
58) 1,4-Dioxane	7.285	88	76620	1227.23	ppb	#	76
59) Methyl Methacrylate	7.309	69	153128	53.61	ppb		96
60) Bromodichloromethane	7.456	83	176706	52.99	ppb		99
61) 2-Nitropropane	7.736	41	153284	102.12	ppb		96
62) 2-Chloroethylvinyl Ether	7.858	63	119081	38.11	ppb		95
63) cis-1,3-Dichloropropene	7.998	75	243911	53.12	ppb		97
64) 4-Methyl-2-pentanone	8.206	43	333832	49.00	ppb		88
66) Toluene	8.370	91	629913	52.33	ppb		96
67) trans-1,3-Dichloropropene	8.638	75	221738	52.64	ppb		98
68) Ethyl Methacrylate	8.779	69	256590	55.05	ppb		89
69) 1,1,2-Trichloroethane	8.827	97	137734	49.52	ppb		97
72) Tetrachloroethene	8.962	164	104618	50.18	ppb		91
73) 2-Hexanone	9.114	43	265100	50.92	ppb		83
74) 1,3-Dichloropropane	8.998	76	269822	58.83	ppb		90
75) Dibromochloromethane	9.224	129	132744	49.66	ppb		97
76) N-Butyl Acetate	9.272	43	499350	46.87	ppb		91
77) 1,2-Dibromoethane	9.321	107	143846	57.79	ppb		92
78) Chlorobenzene	9.815	112	397338	53.64	ppb		94
79) 3-CBTF	9.833	180	185272	48.65	ppb		94
80) 4-CBTF	9.888	180	165822	49.87	ppb		97
81) 1,1,1,2-Tetrachloroethane	9.900	131	133189	48.14	ppb		92
82) Ethylbenzene	9.937	106	213374	54.22	ppb		97
83) (m+p)Xylene	10.047	106	528354	109.07	ppb		98
84) o-Xylene	10.406	106	261128	52.21	ppb		96
85) Styrene	10.419	104	448466	55.05	ppb		97
87) Bromoform	10.571	173	81514	47.30	ppb		95
88) 2-CBTF	10.650	180	183956	51.06	ppb		97
89) Isopropylbenzene	10.742	105	676890	55.39	ppb		99
90) Cyclohexanone	10.803	55	1383310	1169.59	ppb		81
91) trans-1,4-Dichloro-2-B...	11.047	53	87155	45.22	ppb		95
92) 1,1,2,2-Tetrachloroethane	10.998	83	210759	54.44	ppb		96
93) Bromobenzene	10.986	156	159377	51.20	ppb		90
94) 1,2,3-Trichloropropane	11.028	110	76451	58.43	ppb		91
95) n-Propylbenzene	11.095	91	778422	53.00	ppb		98
96) 2-Chlorotoluene	11.162	91	487961	54.58	ppb		98
97) 3-Chlorotoluene	11.211	91	510035	54.60	ppb		95
98) 4-Chlorotoluene	11.254	91	562534	55.92	ppb		94
99) 1,3,5-Trimethylbenzene	11.254	105	564353	54.36	ppb		98
100) tert-Butylbenzene	11.522	119	486974	51.47	ppb		100
101) 1,2,4-Trimethylbenzene	11.565	105	584973	55.01	ppb		97
102) 3,4-DCBTF	11.626	214	133820	48.63	ppb		91
103) sec-Butylbenzene	11.705	105	732147	55.87	ppb		98
104) p-Isopropyltoluene	11.827	119	607086	52.45	ppb		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11695.D
Acq On : 31 Aug 2017 6:48 pm
Operator : B.ALLGEIER
Sample : 50.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 01 09:01:16 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	310126	50.13	ppb		97
106) 1,4-Dclbenz	11.863	146	313880	49.94	ppb		95
107) 2,4-DCBTF	11.912	214	127113	53.39	ppb		95
108) 2,5-DCBTF	11.955	214	140348	52.57	ppb		96
109) n-Butylbenzene	12.162	91	562560	52.27	ppb		99
110) 1,2-Dclbenz	12.162	146	309366	52.15	ppb		93
111) 1,2-Dibromo-3-chloropr...	12.784	157	53932	48.17	ppb		96
112) Trielution Dichlorotol...	12.906	125	916705	155.33	ppb	#	94
113) 1,3,5 Trichlorobenzene	12.961	180	225902	50.03	ppb		92
114) Coelution Dichlorotoluene	13.235	125	677106	101.55	ppb		98
115) 1,2,4-Tcbenzene	13.442	180	234667	52.72	ppb		95
116) Hexachlorobt	13.583	225	97616	53.45	ppb		97
117) Naphthalen	13.631	128	848326	54.42	ppb		99
118) 1,2,3-Tclbenzene	13.820	180	254142	51.97	ppb		95
119) 2,4,5-Trichlorotolene	14.406	159	203837	47.59	ppb	#	91
120) 2,3,6-Trichlorotoluene	14.491	159	185169	45.69	ppb		95

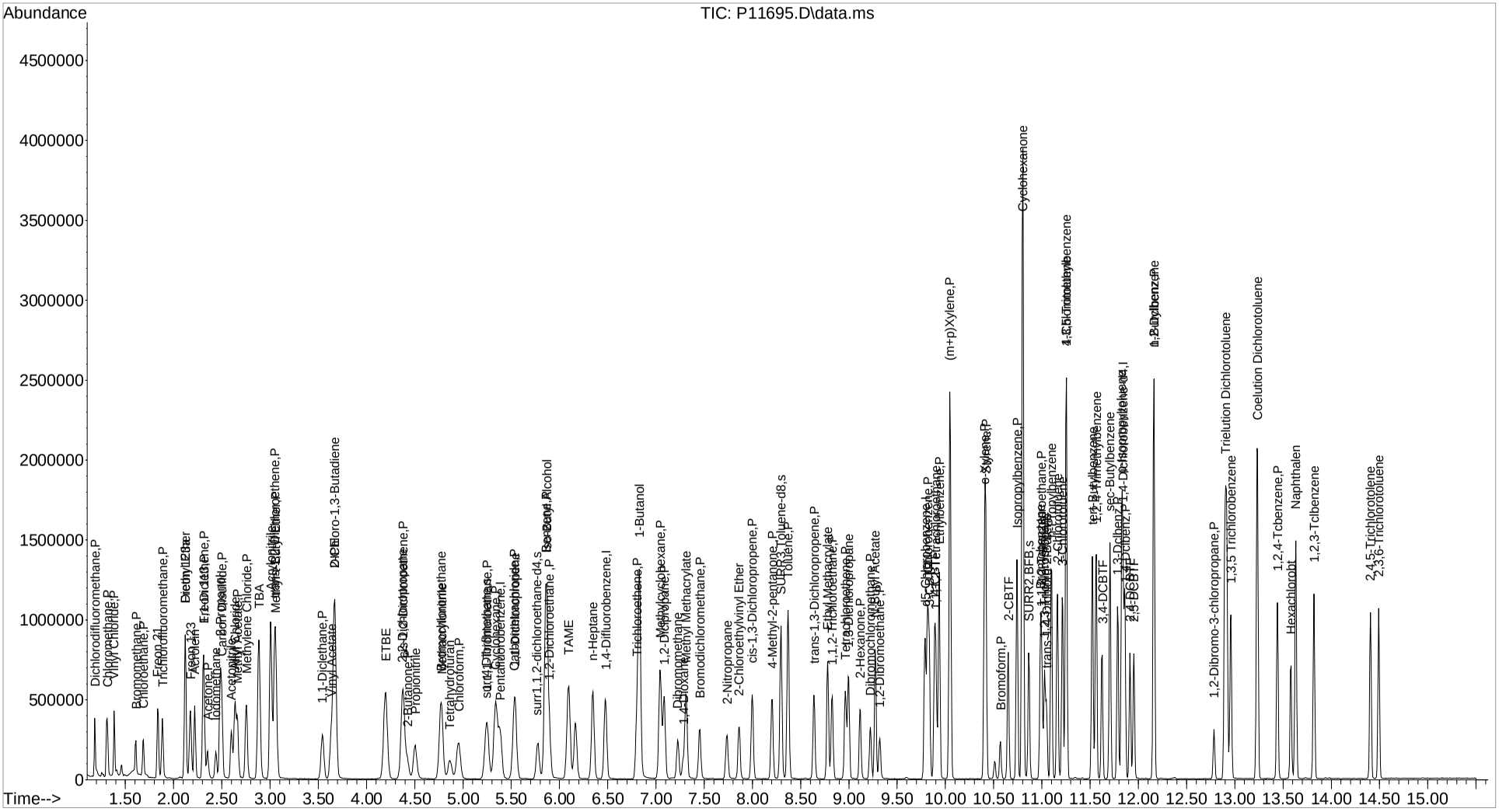
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11695.D
Acq On : 31 Aug 2017 6:48 pm
Operator : B.ALLGEIER
Sample : 50.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

1st BA 09/01/17
2nd 09/05/17

Quant Time: Sep 01 09:01:16 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11696.D
Acq On : 31 Aug 2017 7:09 pm
Operator : B.ALLGEIER
Sample : 100.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 09:01:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.389	168	248985	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	406261	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	367122	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	197037	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.243	113	240386	97.98	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 195.96%#				
48) surr1,1,2-dichloroetha...	5.773	65	370449	98.57	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 197.14%#				
65) SURR3,Toluene-d8	8.297	98	1077238	106.20	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 212.40%#				
70) SURR2,BFB	10.864	95	423916	108.00	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 216.00%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	359347	96.50	ppb		95
3) Chloromethane	1.305	50	636494	81.24	ppb		95
4) Vinyl Chloride	1.384	62	425814	78.62	ppb		96
5) Bromomethane	1.603	94	115963	60.82	ppb		97
6) Chloroethane	1.683	64	230777	79.47	ppb		96
7) Freon 21	1.835	67	542730	97.04	ppb		98
8) Trichlorofluoromethane	1.884	101	422886	105.71	ppb		99
9) Diethyl Ether	2.122	59	378300	72.13	ppb		80
10) Freon 123a	2.122	67	339308	94.00	ppb		100
11) Freon 123	2.177	83	369487	98.05	ppb		98
12) Acrolein	2.219	56	491628	316.26	ppb		97
13) 1,1-Diclethene	2.305	96	256976	92.76	ppb	#	78
14) Freon 113	2.311	101	235247	97.44	ppb		93
15) Acetone	2.353	43	293169	102.04	ppb		96
16) 2-Propanol	2.487	45	1247043	1795.13	ppb		93
17) Iodomethane	2.439	142	309362	85.44	ppb		91
18) Carbon Disulfide	2.500	76	662583	79.46	ppb		98
19) Acetonitrile	2.597	40	285039	494.93	ppb		98
20) Allyl Chloride	2.640	76	130848	97.07	ppb	#	88
21) Methyl Acetate	2.658	43	778777	93.59	ppb		97
22) Methylene Chloride	2.756	84	279330	94.69	ppb		95
23) TBA	2.890	59	1690666	1589.49	ppb		89
24) Acrylonitrile	3.006	53	1375489	385.42	ppb		100
25) Methyl-t-Butyl Ether	3.054	73	1019714	103.53	ppb		89
26) trans-1,2-Dichloroethene	3.048	96	277587	94.54	ppb	#	84
28) 1,1-Diclethane	3.542	63	622630	81.96	ppb		97
29) Vinyl Acetate	3.634	86	56329	80.73	ppb	#	92
30) DIPE	3.670	45	1589661	86.44	ppb		94
31) 2-Chloro-1,3-Butadiene	3.664	53	624372	72.07	ppb		83
32) ETBE	4.194	59	1308897	75.77	ppb		90
33) 2,2-Dichloropropane	4.371	77	407867	99.10	ppb		93
34) cis-1,2-Dichloroethene	4.383	96	317808	98.56	ppb	#	72
35) 2-Butanone	4.420	43	385595	94.18	ppb		90
36) Propionitrile	4.505	54	567795	388.85	ppb		92
37) Bromochloromethane	4.774	130	181966	95.40	ppb	#	80
38) Methacrylonitrile	4.774	67	186198	87.25	ppb		88
39) Tetrahydrofuran	4.859	42	239875	88.68	ppb		93
40) Chloroform	4.950	83	481307	103.95	ppb		98
41) 1,1,1-Trichloroethane	5.249	97	440407	103.22	ppb		94

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11696.D
Acq On : 31 Aug 2017 7:09 pm
Operator : B.ALLGEIER
Sample : 100.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 09:01:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.097	73	971518	99.21	ppb		94
44) Cyclohexane	5.334	41	426050	94.39	ppb		92
46) Carbontetrachloride	5.530	117	351604	104.41	ppb		98
47) 1,1-Dichloropropene	5.542	75	399263	114.58	ppb		94
49) Benzene	5.859	78	1158449	107.25	ppb		88
50) 1,2-Dichloroethane	5.895	62	501383	93.23	ppb		96
51) Iso-Butyl Alcohol	5.871	43	971729	2044.37	ppb		100
52) n-Heptane	6.346	43	636188	90.29	ppb		87
53) 1-Butanol	6.834	56	1388999	4430.76	ppb		82
54) Trichloroethene	6.804	130	306552	105.38	ppb		97
55) Methylcyclohexane	7.048	55	579046	76.04	ppb		79
56) 1,2-Diclpropane	7.084	63	376660	83.70	ppb		99
57) Dibromomethane	7.224	93	181703	96.16	ppb		95
58) 1,4-Dioxane	7.285	88	147907	2321.82	ppb	#	71
59) Methyl Methacrylate	7.310	69	298434	102.39	ppb		99
60) Bromodichloromethane	7.456	83	354646	104.22	ppb		97
61) 2-Nitropropane	7.736	41	303642	198.25	ppb		98
62) 2-Chloroethylvinyl Ether	7.858	63	244583	76.71	ppb		83
63) cis-1,3-Dichloropropene	7.999	75	492763	105.19	ppb		95
64) 4-Methyl-2-pentanone	8.206	43	666611	95.89	ppb		87
66) Toluene	8.370	91	1281585	104.35	ppb		97
67) trans-1,3-Dichloropropene	8.639	75	455329	105.95	ppb		99
68) Ethyl Methacrylate	8.779	69	517041	108.71	ppb		91
69) 1,1,2-Trichloroethane	8.828	97	273129	96.23	ppb		97
72) Tetrachloroethene	8.962	164	207802	97.28	ppb		91
73) 2-Hexanone	9.114	43	521899	97.84	ppb		87
74) 1,3-Dichloropropane	8.992	76	517670	110.16	ppb		96
75) Dibromochloromethane	9.224	129	273005	99.69	ppb		97
76) N-Butyl Acetate	9.273	43	1046567	95.88	ppb		89
77) 1,2-Dibromoethane	9.321	107	279628	109.65	ppb		99
78) Chlorobenzene	9.815	112	788366	103.87	ppb		96
79) 3-CBTF	9.834	180	360048	92.28	ppb		96
80) 4-CBTF	9.888	180	315259	92.54	ppb		99
81) 1,1,1,2-Tetrachloroethane	9.901	131	273876	96.63	ppb		96
82) Ethylbenzene	9.937	106	434766	107.84	ppb		98
83) (m+p)Xylene	10.047	106	1059092	213.39	ppb		93
84) o-Xylene	10.407	106	538308	105.05	ppb		97
85) Styrene	10.419	104	884286	105.95	ppb		98
87) Bromoform	10.571	173	172450	92.24	ppb		92
88) 2-CBTF	10.650	180	353299	90.39	ppb		99
89) Isopropylbenzene	10.742	105	1350477	101.86	ppb		98
90) Cyclohexanone	10.803	55	2564480	1998.60	ppb		78
91) trans-1,4-Dichloro-2-B...	11.053	53	165439	79.13	ppb		91
92) 1,1,2,2-Tetrachloroethane	10.998	83	393865	93.78	ppb		94
93) Bromobenzene	10.986	156	318197	94.23	ppb		95
94) 1,2,3-Trichloropropane	11.028	110	141450	99.65	ppb		93
95) n-Propylbenzene	11.102	91	1593666	100.02	ppb		96
96) 2-Chlorotoluene	11.163	91	967506	99.75	ppb		96
97) 3-Chlorotoluene	11.211	91	991346	97.82	ppb		96
98) 4-Chlorotoluene	11.254	91	1101640	100.95	ppb		96
99) 1,3,5-Trimethylbenzene	11.254	105	1127765	100.12	ppb		95
100) tert-Butylbenzene	11.522	119	987025	96.15	ppb		99
101) 1,2,4-Trimethylbenzene	11.565	105	1201502	104.14	ppb		97
102) 3,4-DCBTF	11.626	214	271187	90.85	ppb		94
103) sec-Butylbenzene	11.705	105	1487035	104.60	ppb		97
104) p-Isopropyltoluene	11.827	119	1231239	98.04	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11696.D
Acq On : 31 Aug 2017 7:09 pm
Operator : B.ALLGEIER
Sample : 100.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 09:01:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.784	146	623065	92.84	ppb		97
106) 1,4-Dclbenz	11.864	146	631243	92.57	ppb		93
107) 2,4-DCBTF	11.912	214	258249	100.32	ppb		97
108) 2,5-DCBTF	11.955	214	278164	96.04	ppb		98
109) n-Butylbenzene	12.162	91	1164341	99.72	ppb		100
110) 1,2-Dclbenz	12.162	146	629845	97.87	ppb		98
111) 1,2-Dibromo-3-chloropr...	12.784	157	107457	88.47	ppb		89
112) Trielution Dichlorotol...	12.906	125	1850799	289.06	ppb	#	93
113) 1,3,5 Trichlorobenzene	12.961	180	472329	96.42	ppb		95
114) Coelution Dichlorotoluene	13.235	125	1407822	194.61	ppb		98
115) 1,2,4-Tcbenzene	13.443	180	497960	103.12	ppb		95
116) Hexachlorobt	13.583	225	210309	106.15	ppb		96
117) Naphthalen	13.632	128	1689215	99.88	ppb		99
118) 1,2,3-Tclbenzene	13.821	180	511784	96.47	ppb		96
119) 2,4,5-Trichlorotolene	14.406	159	434487	93.49	ppb	#	92
120) 2,3,6-Trichlorotoluene	14.491	159	393637	89.53	ppb		93

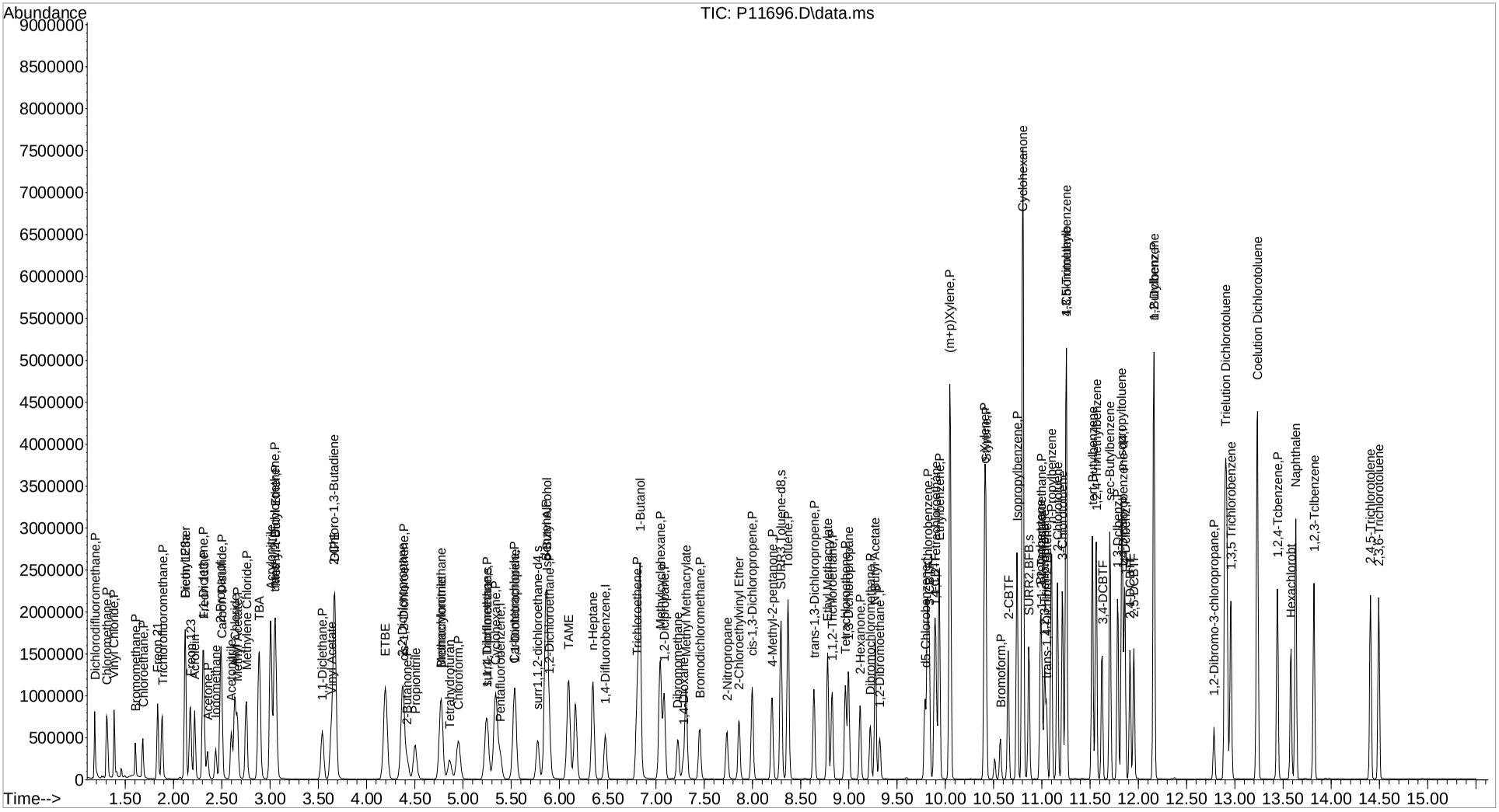
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11696.D
Acq On : 31 Aug 2017 7:09 pm
Operator : B.ALLGEIER
Sample : 100.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

1st BA 09/01/17
2nd 09/05/17

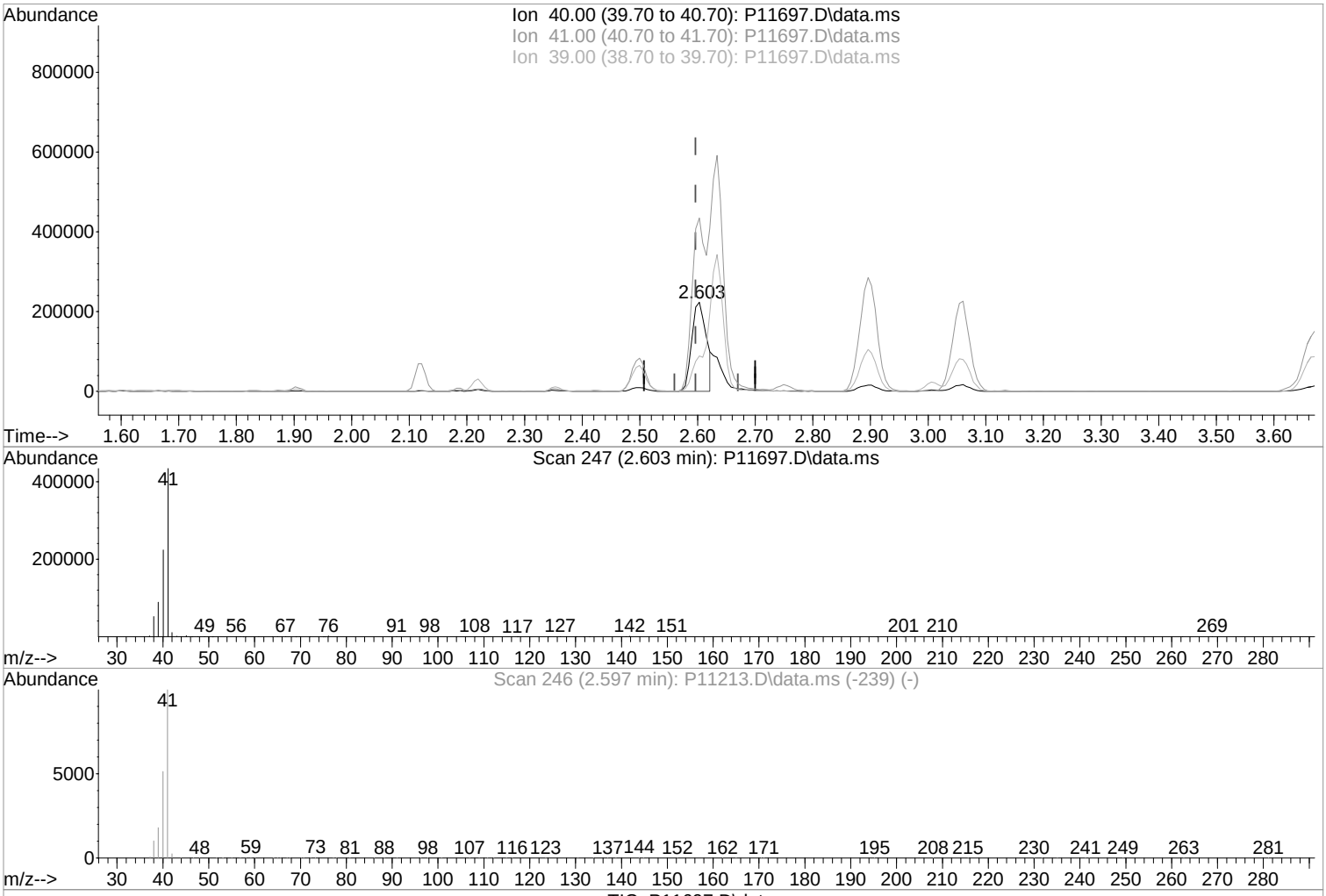
Quant Time: Sep 01 09:01:19 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11697.D
Acq On : 31 Aug 2017 7:31 pm
Operator : B.ALLGEIER
Sample : 150.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 09:01:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



TIC: P11697.D\data.ms

(19) Acetonitrile

2.603min (+0.006) 706.20 ppb m

response 393791

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	194.11
39.00	35.40	39.88
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

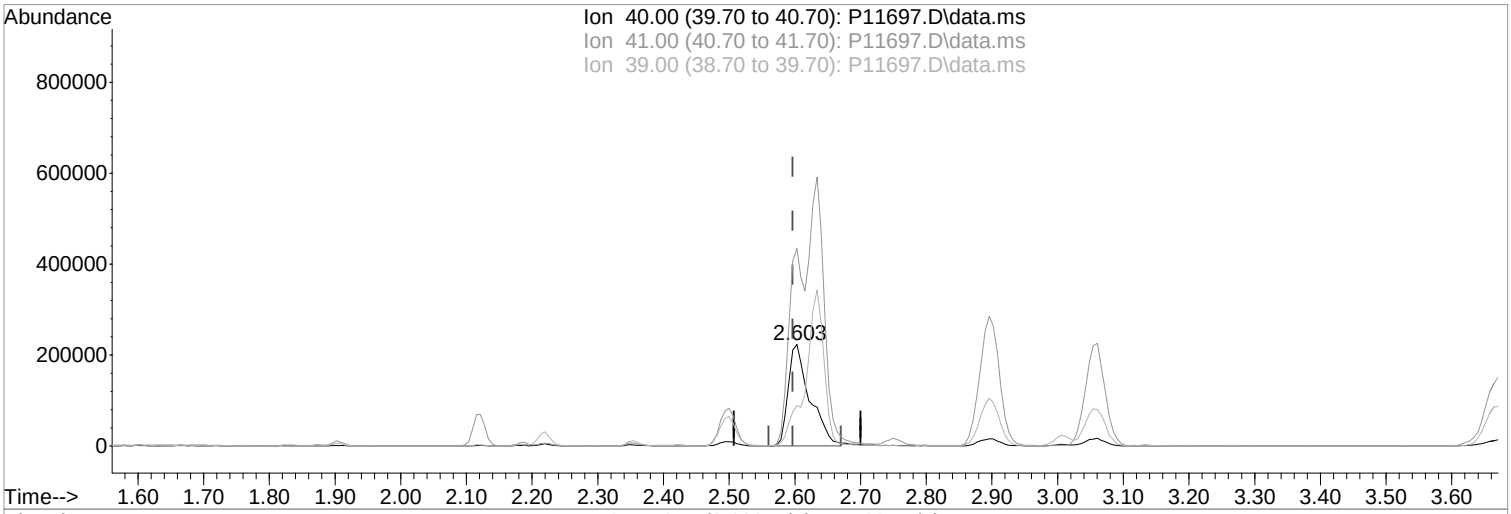
09/01/17

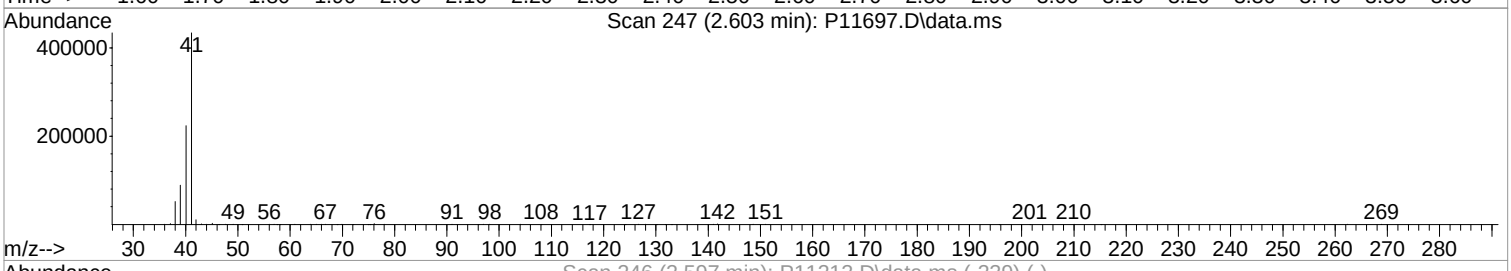
1st BA 09/01/17
2nd 09/05/17

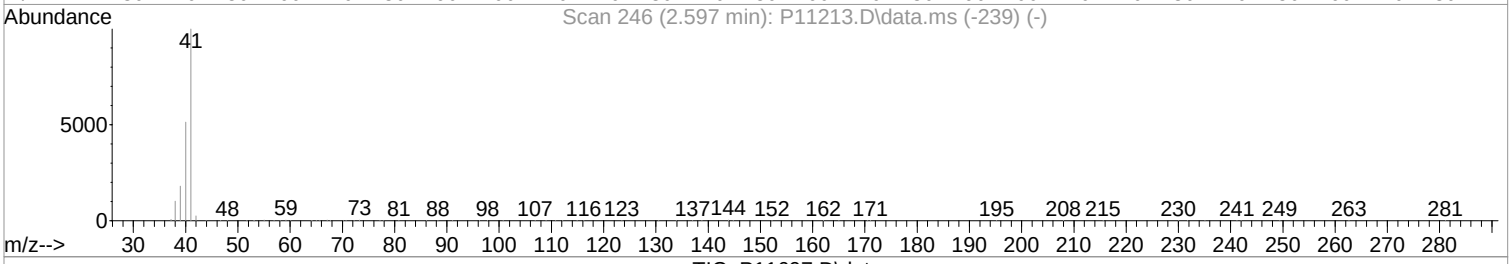
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11697.D
Acq On : 31 Aug 2017 7:31 pm
Operator : B.ALLGEIER
Sample : 150.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 09:01:22 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration







TIC: P11697.D\data.ms

(19) Acetonitrile

2.603min (+0.006) 918.02 ppb

response 511907

Ion	Exp%	Act%
40.00	100	100
41.00	195.10	194.11
39.00	35.40	39.88
0.00	0.00	0.00

Manual Integration:

Before

09/01/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11697.D
Acq On : 31 Aug 2017 7:31 pm
Operator : B.ALLGEIER
Sample : 150.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 09:53:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	241077	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	410828	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	363886	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	201107	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	453471	182.78	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 365.56%#				
48) surr1,1,2-dichloroetha...	5.773	65	681192	179.24	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 358.48%#				
65) SURR3,Toluene-d8	8.297	98	1957015	190.80	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 381.60%#				
70) SURR2,BFB	10.864	95	818734	206.26	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 412.52%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	488564	135.50	ppb		94
3) Chloromethane	1.305	50	903598	119.11	ppb		96
4) Vinyl Chloride	1.384	62	599243	114.27	ppb		96
5) Bromomethane	1.603	94	159953	100.81	ppb		91
6) Chloroethane	1.670	64	306232	108.91	ppb		97
7) Freon 21	1.829	67	813557	150.24	ppb		98
8) Trichlorofluoromethane	1.872	101	578954	149.48	ppb		98
9) Diethyl Ether	2.122	59	553078	108.91	ppb		81
10) Freon 123a	2.115	67	497267	142.28	ppb		98
11) Freon 123	2.170	83	549683	150.65	ppb		100
12) Acrolein	2.219	56	690187	458.55	ppb		96
13) 1,1-Diclethene	2.304	96	361540	134.79	ppb	#	72
14) Freon 113	2.311	101	323851	138.54	ppb		95
15) Acetone	2.353	43	416132	149.59	ppb		94
16) 2-Propanol	2.499	45	1888532	2807.74	ppb		94
17) Iodomethane	2.432	142	462260	125.33	ppb		92
18) Carbon Disulfide	2.493	76	1071806	132.75	ppb		99
19) Acetonitrile	2.603	40	393791m	706.20	ppb		
20) Allyl Chloride	2.634	76	184295	141.21	ppb	#	91
21) Methyl Acetate	2.658	43	1140448	141.55	ppb		98
22) Methylene Chloride	2.749	84	403311	141.20	ppb		96
23) TBA	2.896	59	2569651	2495.12	ppb		89
24) Acrylonitrile	3.006	53	2013204	582.62	ppb		99
25) Methyl-t-Butyl Ether	3.060	73	1495753	156.85	ppb		91
26) trans-1,2-Dichloroethene	3.042	96	394061	138.61	ppb	#	84
28) 1,1-Diclethane	3.542	63	888244	120.77	ppb		97
29) Vinyl Acetate	3.627	86	96263	142.50	ppb	#	78
30) DIPE	3.670	45	2414133	135.58	ppb		95
31) 2-Chloro-1,3-Butadiene	3.664	53	992576	118.32	ppb		82
32) ETBE	4.194	59	1967788	117.65	ppb		90
33) 2,2-Dichloropropane	4.371	77	578109	145.07	ppb		95
34) cis-1,2-Dichloroethene	4.377	96	451176	144.50	ppb	#	80
35) 2-Butanone	4.426	43	552379	139.35	ppb		91
36) Propionitrile	4.505	54	843219	596.42	ppb		95
37) Bromochloromethane	4.773	130	269832	146.11	ppb	#	81
38) Methacrylonitrile	4.773	67	272692	131.97	ppb		91
39) Tetrahydrofuran	4.859	42	352807	134.72	ppb		86
40) Chloroform	4.950	83	690262	153.96	ppb		97
41) 1,1,1-Trichloroethane	5.249	97	619772	150.02	ppb		92

1st BA 09/01/17
2nd MR 09/05/17

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11697.D
Acq On : 31 Aug 2017 7:31 pm
Operator : B.ALLGEIER
Sample : 150.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 09:53:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.096	73	1454393	153.40	ppb		93
44) Cyclohexane	5.334	41	627870	137.56	ppb		87
46) Carbontetrachloride	5.529	117	496020	145.66	ppb		92
47) 1,1-Dichloropropene	5.542	75	555815	157.73	ppb		91
49) Benzene	5.853	78	1672492	153.13	ppb		88
50) 1,2-Dichloroethane	5.895	62	723367	133.02	ppb		96
51) Iso-Butyl Alcohol	5.877	43	1496265	3112.92	ppb		99
52) n-Heptane	6.346	43	879855	123.49	ppb		87
53) 1-Butanol	6.840	56	2160240	6814.33	ppb		83
54) Trichloroethene	6.804	130	435972	148.20	ppb		94
55) Methylcyclohexane	7.041	55	849082	110.27	ppb		78
56) 1,2-Diclpropane	7.084	63	549176	120.68	ppb		98
57) Dibromomethane	7.224	93	276103	144.49	ppb		92
58) 1,4-Dioxane	7.285	88	232320	3606.38	ppb	#	79
59) Methyl Methacrylate	7.310	69	442115	150.00	ppb		98
60) Bromodichloromethane	7.450	83	521946	151.69	ppb		98
61) 2-Nitropropane	7.736	41	461131	297.73	ppb		100
62) 2-Chloroethylvinyl Ether	7.864	63	373602	115.88	ppb		85
63) cis-1,3-Dichloropropene	7.998	75	721160	152.23	ppb		97
64) 4-Methyl-2-pentanone	8.206	43	982608	139.78	ppb		89
66) Toluene	8.370	91	1823333	146.81	ppb		97
67) trans-1,3-Dichloropropene	8.639	75	662627	152.47	ppb		100
68) Ethyl Methacrylate	8.779	69	767666	159.61	ppb		88
69) 1,1,2-Trichloroethane	8.828	97	398994	139.02	ppb		97
72) Tetrachloroethene	8.962	164	297644	140.57	ppb		91
73) 2-Hexanone	9.114	43	792049	149.80	ppb		86
74) 1,3-Dichloropropane	8.998	76	763082	163.83	ppb		91
75) Dibromochloromethane	9.224	129	413234	152.24	ppb		97
76) N-Butyl Acetate	9.273	43	1531886	141.59	ppb		91
77) 1,2-Dibromoethane	9.321	107	415609	164.42	ppb		97
78) Chlorobenzene	9.815	112	1124947	149.53	ppb		93
79) 3-CBTF	9.833	180	579818	149.92	ppb		96
80) 4-CBTF	9.888	180	522028	154.60	ppb		98
81) 1,1,1,2-Tetrachloroethane	9.900	131	399834	142.32	ppb		95
82) Ethylbenzene	9.937	106	625954	156.64	ppb		94
83) (m+p)Xylene	10.047	106	1514545	307.87	ppb		92
84) o-Xylene	10.406	106	765818	150.77	ppb		97
85) Styrene	10.419	104	1297403	156.83	ppb		98
87) Bromoform	10.571	173	271813	142.44	ppb		93
88) 2-CBTF	10.650	180	574769	144.07	ppb		96
89) Isopropylbenzene	10.742	105	1926312	142.35	ppb		98
90) Cyclohexanone	10.803	55	3764378	2874.36	ppb		75
91) trans-1,4-Dichloro-2-B...	11.053	53	257176	120.52	ppb		85
92) 1,1,2,2-Tetrachloroethane	11.004	83	630056	146.98	ppb		94
93) Bromobenzene	10.986	156	473338	137.33	ppb		93
94) 1,2,3-Trichloropropane	11.028	110	231903	160.07	ppb		100
95) n-Propylbenzene	11.101	91	2238930	137.67	ppb		97
96) 2-Chlorotoluene	11.162	91	1409333	142.36	ppb		96
97) 3-Chlorotoluene	11.211	91	1555503	150.38	ppb		99
98) 4-Chlorotoluene	11.254	91	1626341	146.01	ppb		97
99) 1,3,5-Trimethylbenzene	11.254	105	1640348	142.68	ppb		97
100) tert-Butylbenzene	11.522	119	1440540	137.49	ppb		99
101) 1,2,4-Trimethylbenzene	11.565	105	1728002	146.74	ppb		97
102) 3,4-DCBTF	11.626	214	451042	148.04	ppb		94
103) sec-Butylbenzene	11.705	105	2132544	146.96	ppb		97
104) p-Isopropyltoluene	11.827	119	1786392	139.37	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11697.D
Acq On : 31 Aug 2017 7:31 pm
Operator : B.ALLGEIER
Sample : 150.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 09:53:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.790	146	941428	137.44	ppb		99
106) 1,4-Dclbenz	11.864	146	974712	140.04	ppb		95
107) 2,4-DCBTF	11.912	214	430461	164.07	ppb		98
108) 2,5-DCBTF	11.955	214	470504	159.16	ppb		96
109) n-Butylbenzene	12.162	91	1700464	142.68	ppb		99
110) 1,2-Dclbenz	12.162	146	983591	149.75	ppb		98
111) 1,2-Dibromo-3-chloropr...	12.784	157	180536	145.63	ppb		93
112) Trielution Dichlorotol...	12.906	125	3020992	462.27	ppb	#	93
113) 1,3,5 Trichlorobenzene	12.961	180	761916	152.39	ppb		95
114) Coelution Dichlorotoluene	13.235	125	2259197	305.99	ppb		96
115) 1,2,4-Tcbenzene	13.442	180	777639	157.77	ppb		98
116) Hexachlorobt	13.583	225	317067	156.79	ppb		95
117) Naphthalen	13.631	128	2583927	149.69	ppb		98
118) 1,2,3-Tclbenzene	13.820	180	792372	146.33	ppb		98
119) 2,4,5-Trichlorotolene	14.406	159	680792	143.53	ppb	#	93
120) 2,3,6-Trichlorotoluene	14.491	159	613891	136.79	ppb		96

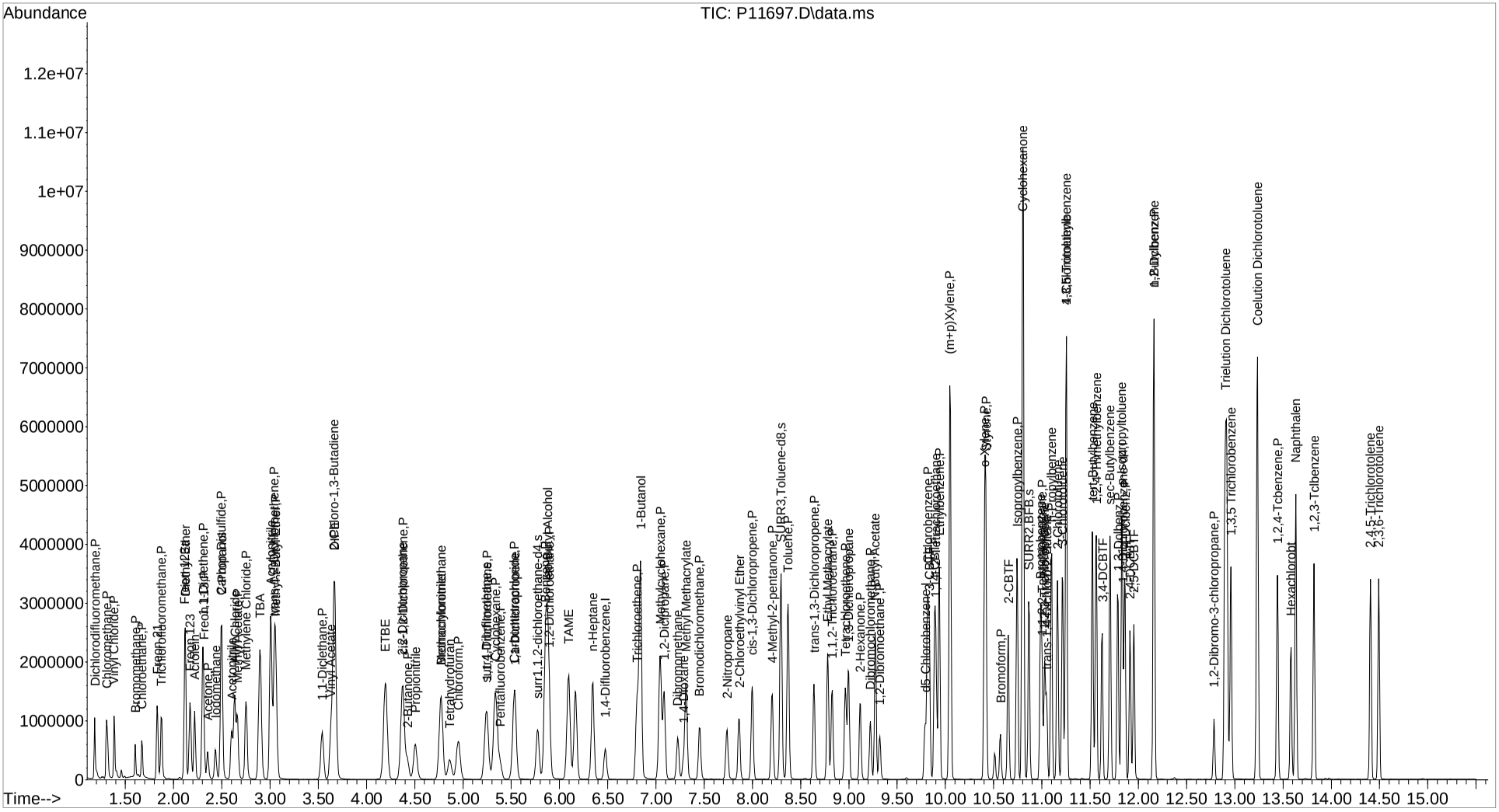
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st BA 09/01/17
2nd 09/05/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11697.D
Acq On : 31 Aug 2017 7:31 pm
Operator : B.ALLGEIER
Sample : 150.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 09:53:23 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11698.D
Acq On : 31 Aug 2017 7:53 pm
Operator : B.ALLGEIER
Sample : 200.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 09:01:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.383	168	250234	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.474	114	412294	50.00	ppb		0.00
71) d5-Chlorobenzene	9.791	117	369412	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.845	152	203322	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	127173	51.08	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.16%				
48) surr1,1,2-dichloroetha...	5.773	65	191767	50.28	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.56%				
65) SURR3,Toluene-d8	8.297	98	559142	54.32	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.64%				
70) SURR2,BFB	10.864	95	227920	57.22	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 114.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	720976	192.64	ppb		95
3) Chloromethane	1.305	50	1349900	171.43	ppb		98
4) Vinyl Chloride	1.384	62	875883	160.90	ppb		94
5) Bromomethane	1.603	94	239086	Below Cal			98
6) Chloroethane	1.676	64	471398	161.52	ppb		97
7) Freon 21	1.835	67	1026027	182.55	ppb		98
8) Trichlorofluoromethane	1.878	101	848053	210.94	ppb		99
9) Diethyl Ether	2.121	59	759206	144.03	ppb		83
10) Freon 123a	2.121	67	637475	175.72	ppb		99
11) Freon 123	2.170	83	716309	189.14	ppb		98
12) Acrolein	2.219	56	952205	609.49	ppb		97
13) 1,1-Diclethene	2.304	96	525517	188.76	ppb	#	77
14) Freon 113	2.310	101	483613	199.32	ppb		93
15) Acetone	2.353	43	589943	204.32	ppb		94
16) 2-Propanol	2.493	45	2548019	3649.60	ppb		95
17) Iodomethane	2.438	142	683955	170.64	ppb		92
18) Carbon Disulfide	2.499	76	1451397	173.19	ppb		99
19) Acetonitrile	2.597	40	548021	946.82	ppb		98
20) Allyl Chloride	2.634	76	269794	199.15	ppb	#	89
21) Methyl Acetate	2.658	43	1593072	190.49	ppb		97
22) Methylene Chloride	2.755	84	576269	194.37	ppb		91
23) TBA	2.890	59	3453619	3230.73	ppb		88
24) Acrylonitrile	3.005	53	2808981	783.17	ppb		99
25) Methyl-t-Butyl Ether	3.060	73	2082305	210.36	ppb		89
26) trans-1,2-Dichloroethene	3.048	96	571241	193.58	ppb	#	82
28) 1,1-Diclethane	3.542	63	1269810	166.33	ppb		96
29) Vinyl Acetate	3.633	86	120360	171.65	ppb	#	92
30) DIPE	3.670	45	3125446	169.10	ppb		95
31) 2-Chloro-1,3-Butadiene	3.664	53	1350228	155.07	ppb		83
32) ETBE	4.194	59	2592358	149.33	ppb		90
33) 2,2-Dichloropropane	4.371	77	832068	201.15	ppb		97
34) cis-1,2-Dichloroethene	4.377	96	639057	197.19	ppb	#	80
35) 2-Butanone	4.420	43	785972	191.02	ppb		92
36) Propionitrile	4.505	54	1198246	816.51	ppb		93
37) Bromochloromethane	4.773	130	387333	202.06	ppb	#	80
38) Methacrylonitrile	4.773	67	375837	175.23	ppb		96
39) Tetrahydrofuran	4.865	42	500344	184.06	ppb		85
40) Chloroform	4.950	83	981508	210.91	ppb		97
41) 1,1,1-Trichloroethane	5.249	97	899321	209.72	ppb		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11698.D
Acq On : 31 Aug 2017 7:53 pm
Operator : B.ALLGEIER
Sample : 200.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 09:01:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.096	73	1937777	196.90	ppb		92
44) Cyclohexane	5.340	41	839264	183.22	ppb		84
46) Carbontetrachloride	5.529	117	747277	218.66	ppb		94
47) 1,1-Dichloropropene	5.542	75	810108	229.08	ppb		96
49) Benzene	5.859	78	2386376	217.71	ppb		88
50) 1,2-Dichloroethane	5.895	62	998944	183.04	ppb		97
51) Iso-Butyl Alcohol	5.877	43	2034001	4216.61	ppb		100
52) n-Heptane	6.346	43	1283085	179.44	ppb		88
53) 1-Butanol	6.840	56	2876814	9042.44	ppb		82
54) Trichloroethene	6.803	130	623224	211.10	ppb		98
55) Methylcyclohexane	7.047	55	1143394	147.96	ppb		79
56) 1,2-Diclpropane	7.084	63	770441	168.70	ppb		96
57) Dibromomethane	7.224	93	382066	199.24	ppb		94
58) 1,4-Dioxane	7.285	88	308510	4772.08	ppb	#	73
59) Methyl Methacrylate	7.316	69	616458	208.41	ppb		96
60) Bromodichloromethane	7.456	83	743351	215.26	ppb		97
61) 2-Nitropropane	7.736	41	657421	422.96	ppb		97
62) 2-Chloroethylvinyl Ether	7.864	63	521996	161.33	ppb		85
63) cis-1,3-Dichloropropene	7.998	75	1032454	217.16	ppb		96
64) 4-Methyl-2-pentanone	8.206	43	1399886	198.43	ppb		89
66) Toluene	8.370	91	2584883	207.39	ppb		96
67) trans-1,3-Dichloropropene	8.638	75	939378	215.37	ppb		99
68) Ethyl Methacrylate	8.779	69	1072132	222.12	ppb		90
69) 1,1,2-Trichloroethane	8.827	97	556932	193.36	ppb		98
72) Tetrachloroethene	8.962	164	429087	199.62	ppb		91
73) 2-Hexanone	9.120	43	1097648	204.49	ppb		89
74) 1,3-Dichloropropane	8.998	76	1072302	226.77	ppb		93
75) Dibromochloromethane	9.224	129	594871	215.87	ppb		98
76) N-Butyl Acetate	9.272	43	2103162	191.48	ppb		90
77) 1,2-Dibromoethane	9.321	107	580702	226.30	ppb		95
78) Chlorobenzene	9.815	112	1590640	208.27	ppb		94
79) 3-CBTF	9.833	180	717448	182.73	ppb		95
80) 4-CBTF	9.888	180	651844	190.16	ppb		98
81) 1,1,1,2-Tetrachloroethane	9.900	131	568980	199.50	ppb		94
82) Ethylbenzene	9.937	106	889359	219.23	ppb		91
83) (m+p)Xylene	10.053	106	2163007	433.11	ppb	#	86
84) o-Xylene	10.406	106	1092805	211.93	ppb		96
85) Styrene	10.419	104	1843093	219.46	ppb		97
87) Bromoform	10.571	173	389064	201.67	ppb		95
88) 2-CBTF	10.650	180	737852	182.93	ppb		98
89) Isopropylbenzene	10.748	105	2757224	201.53	ppb		99
90) Cyclohexanone	10.809	55	4922679	3717.85	ppb		76
91) trans-1,4-Dichloro-2-B...	11.053	53	358135	166.00	ppb		86
92) 1,1,2,2-Tetrachloroethane	11.004	83	850485	196.24	ppb		93
93) Bromobenzene	10.992	156	675922	193.98	ppb		95
94) 1,2,3-Trichloropropane	11.028	110	306902	209.53	ppb		98
95) n-Propylbenzene	11.101	91	3198440	194.53	ppb		96
96) 2-Chlorotoluene	11.162	91	2023614	202.18	ppb		96
97) 3-Chlorotoluene	11.217	91	1992109	190.49	ppb		96
98) 4-Chlorotoluene	11.254	91	2303142	204.52	ppb		99
99) 1,3,5-Trimethylbenzene	11.254	105	2348529	202.05	ppb		98
100) tert-Butylbenzene	11.522	119	2092026	197.50	ppb		98
101) 1,2,4-Trimethylbenzene	11.565	105	2504223	210.35	ppb		99
102) 3,4-DCBTF	11.626	214	575593	186.86	ppb		93
103) sec-Butylbenzene	11.705	105	3063235	208.80	ppb		99
104) p-Isopropyltoluene	11.827	119	2588559	199.76	ppb		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11698.D
Acq On : 31 Aug 2017 7:53 pm
Operator : B.ALLGEIER
Sample : 200.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 09:01:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

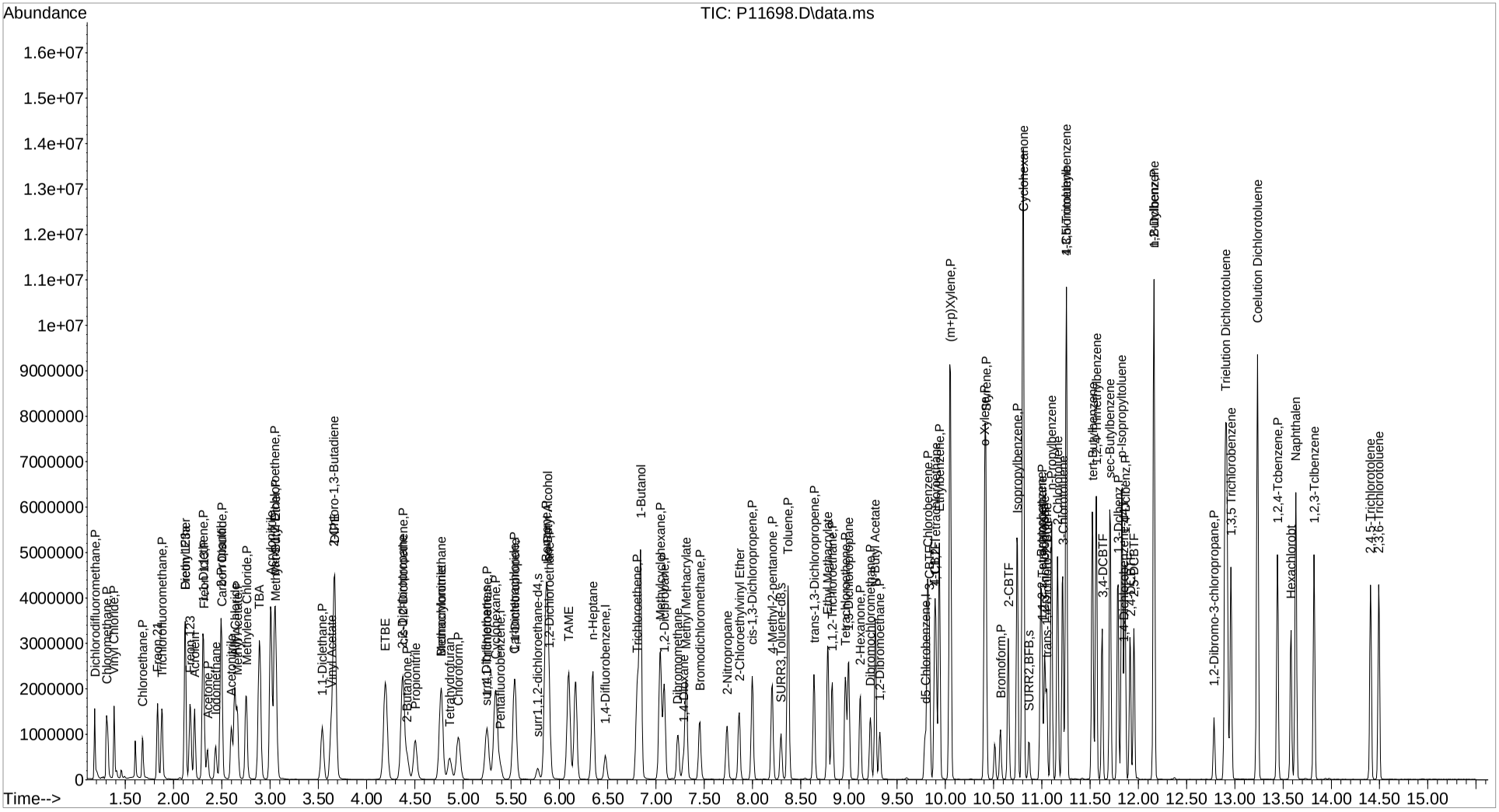
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.790	146	1332265	192.38	ppb		100
106) 1,4-Dclbenz	11.863	146	1360925	193.40	ppb		96
107) 2,4-DCBTF	11.918	214	541177	204.12	ppb		94
108) 2,5-DCBTF	11.955	214	593148	198.47	ppb		95
109) n-Butylbenzene	12.162	91	2441682	202.65	ppb		98
110) 1,2-Dclbenz	12.162	146	1351487	203.51	ppb		96
111) 1,2-Dibromo-3-chloropr...	12.784	157	246014	196.28	ppb		96
112) Trielution Dichlorotol...	12.906	125	3804655	575.85	ppb	#	92
113) 1,3,5 Trichlorobenzene	12.961	180	1000546	197.94	ppb		98
114) Coelution Dichlorotoluene	13.235	125	2852972	382.20	ppb	#	95
115) 1,2,4-Tcbenzene	13.442	180	1068862	214.50	ppb		97
116) Hexachlorobt	13.583	225	454448	222.28	ppb		96
117) Naphthalen	13.631	128	3492410	200.11	ppb		96
118) 1,2,3-Tclbenzene	13.820	180	1090065	199.12	ppb		98
119) 2,4,5-Trichlorotolene	14.406	159	873992	182.25	ppb		96
120) 2,3,6-Trichlorotoluene	14.491	159	800515	176.44	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11698.D
Acq On : 31 Aug 2017 7:53 pm
Operator : B.ALLGEIER
Sample : 200.0ppb Inst : MSVOA-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 09:01:25 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Aug 15 11:01:26 2017
Response via : Initial Calibration

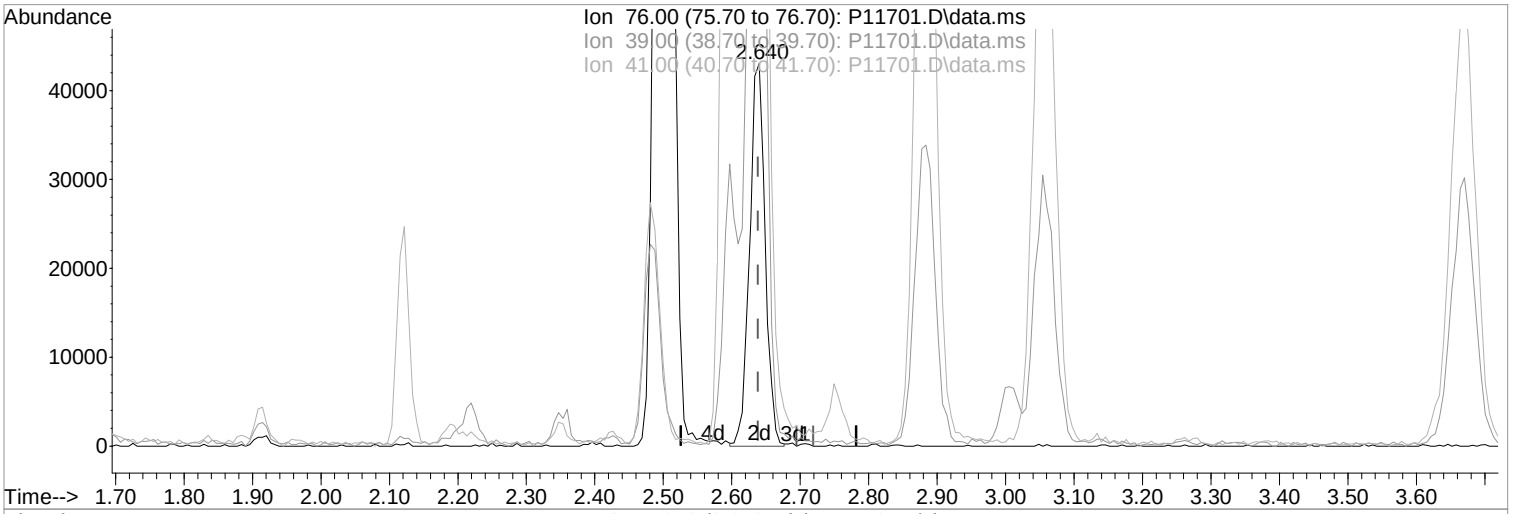


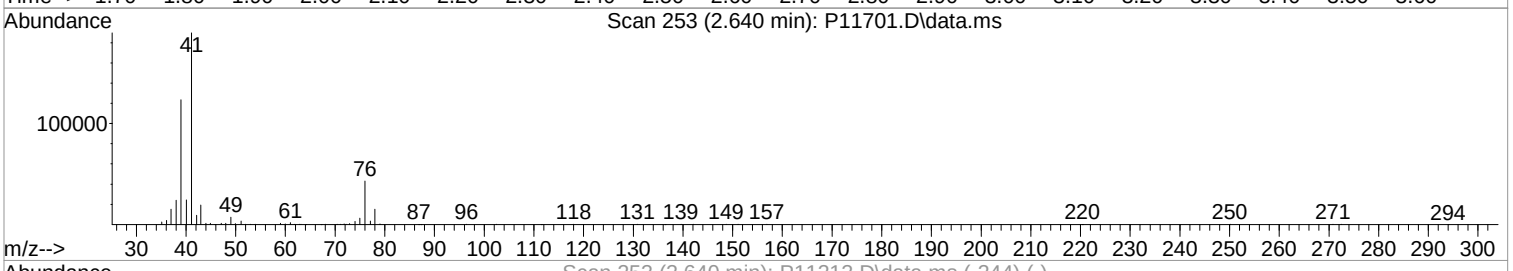
1st BA 09/01/17
2nd 09/05/17

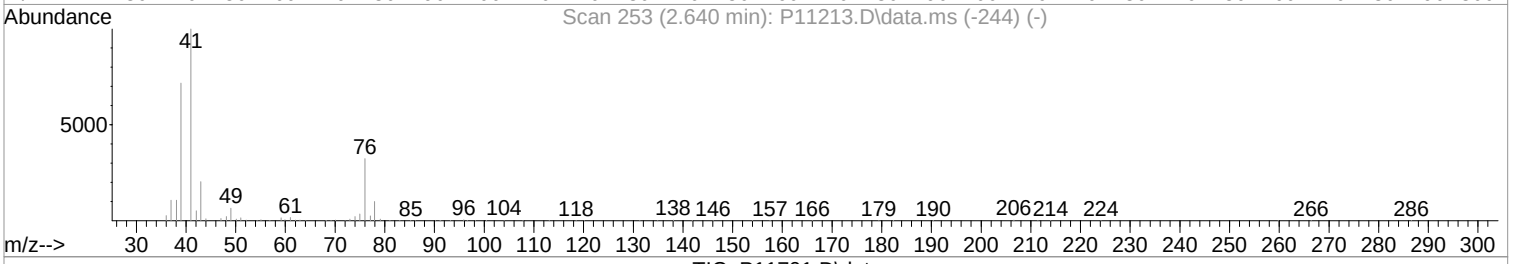
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 13:48:45 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 2017
Response via : Initial Calibration







TIC: P11701.D\data.ms

(20) Allyl Chloride

2.640min (+0.002) 52.90 ppb m

response 67297

Ion	Exp%	Act%
76.00	100	100
39.00	247.10	286.60#
41.00	480.70	441.11#
0.00	0.00	0.00

Manual Integration:

After

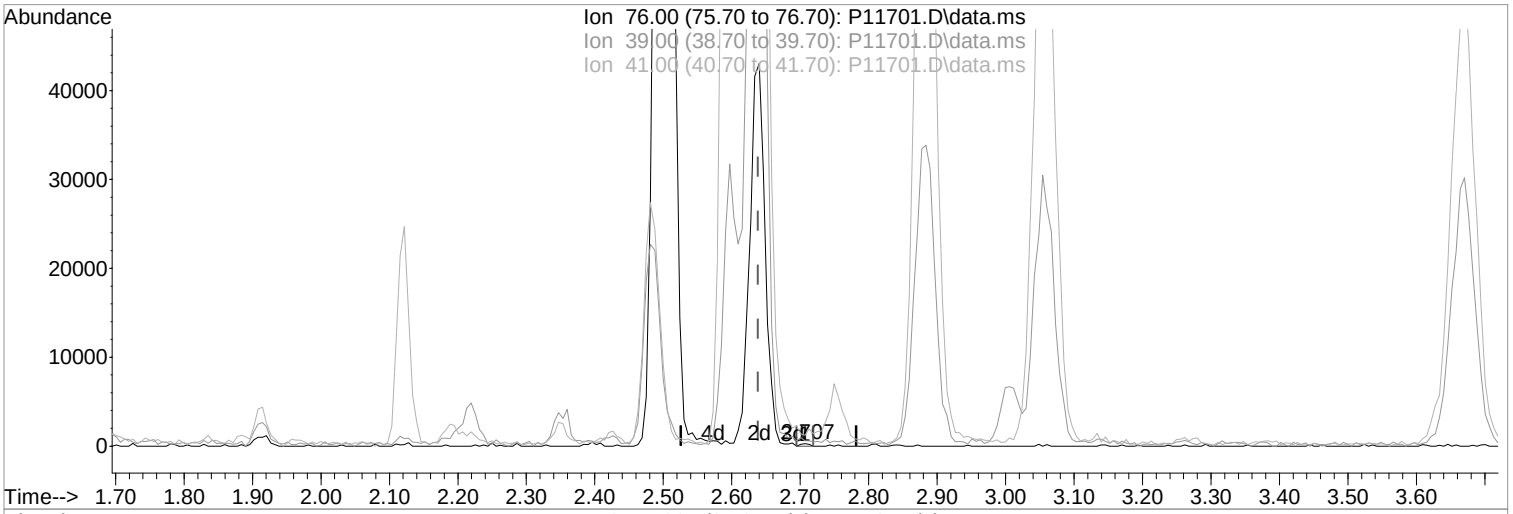
Poor integration.

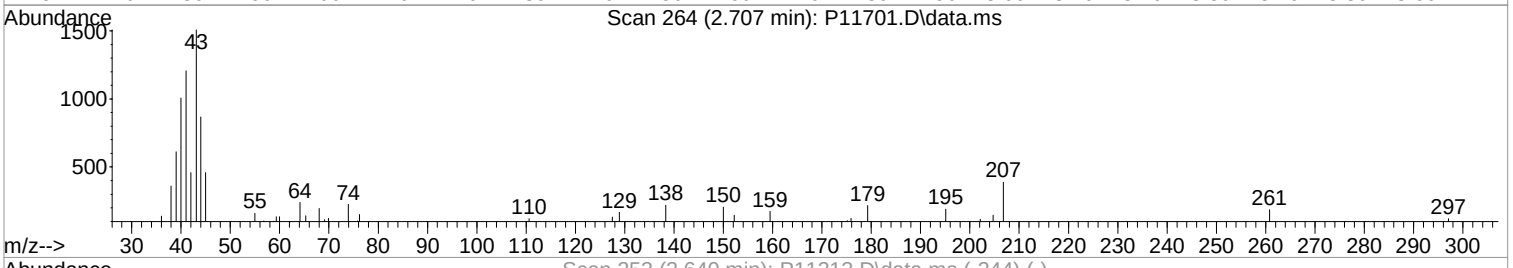
09/01/17

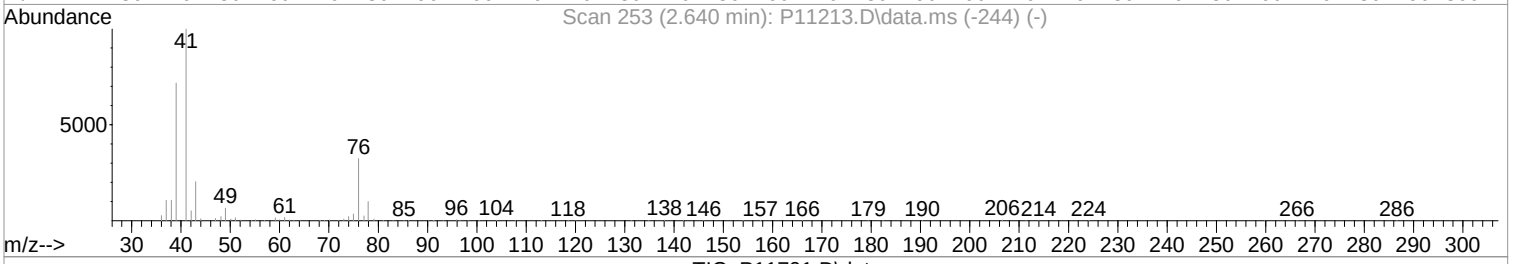
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 10:29:55 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 10:26:08 2017
Response via : Initial Calibration







TIC: P11701.D\data.ms

(20) Allyl Chloride

2.707min (+0.069) 0.19 ppb

response 242

Ion	Exp%	Act%
76.00	100	100
39.00	247.10	240.55
41.00	480.70	475.20
0.00	0.00	0.00

Manual Integration:

Before

09/01/17

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 13:50:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.0000	50.0000	0.0	96	0.00
2	P	Dichlorodifluoromethane	50.0000	45.5549	8.9	89	0.00
3	P	Chloromethane	50.0000	45.0357	9.9	90	0.00
4	P	Vinyl Chloride	50.0000	53.2147	-6.4	104	0.00
5	P	Bromomethane	50.0000	47.0620	5.9	96	0.00
6	P	Chloroethane	50.0000	47.5096	5.0	88	0.00
7		Freon 21	50.0000	51.7831	-3.6	106	0.00
8	P	Trichlorofluoromethane	50.0000	45.0116	10.0	94	0.00
9		Diethyl Ether	50.0000	49.4368	1.1	99	0.00
10		Freon 123a	50.0000	55.8743	-11.7	115	0.00
11		Freon 123	50.0000	53.4729	-6.9	109	0.00
12		Acrolein	250.0000	104.2427	58.3#	41	0.00
13	P	1,1-Diclethene	50.0000	43.2106	13.6	92	0.00
14	P	Freon 113	50.0000	43.6168	12.8	93	0.00
15	P	Acetone	50.0000	49.8806	0.2	95	0.00
16		2-Propanol	1000.0000	1005.2526	-0.5	98	0.00
17		Iodomethane	50.0000	43.5986	12.8	79	0.00
18	P	Carbon Disulfide	50.0000	51.4794	-3.0	101	0.00
19		Acetonitrile	250.0000	238.4591	4.6	88	0.00
20		Allyl Chloride	50.0000	52.9011	-5.8	105	0.00
21	P	Methyl Acetate	50.0000	35.5811	28.8#	70	0.00
22	P	Methylene Chloride	50.0000	49.6396	0.7	101	0.00
23		TBA	1000.0000	996.5381	0.3	88	0.00
24		Acrylonitrile	250.0000	257.9259	-3.2	96	0.00
25	P	Methyl-t-Butyl Ether	50.0000	49.1104	1.8	95	0.00
26	P	trans-1,2-Dichloroethene	50.0000	46.0474	7.9	91	0.00
27		Halothane	-1.0000	0.0000	0.0	0	-4.00#
28	P	1,1-Diclethane	50.0000	48.7244	2.6	96	0.00
29		Vinyl Acetate	50.0000	46.5512	6.9	93	0.00
30		DIPE	50.0000	51.1806	-2.4	100	0.00
31		2-Chloro-1,3-Butadiene	50.0000	54.9091	-9.8	106	0.00
32		ETBE	50.0000	51.9966	-4.0	101	0.00
33		2,2-Dichloropropane	50.0000	43.0852	13.8	88	0.01
34	P	cis-1,2-Dichloroethene	50.0000	45.3235	9.4	90	0.00
35	P	2-Butanone	50.0000	51.7993	-3.6	97	-0.05
36		Propionitrile	250.0000	251.0645	-0.4	96	0.00
37		Bromochloromethane	50.0000	46.0595	7.9	94	0.00
38		Methacrylonitrile	50.0000	50.4188	-0.8	96	0.00
39		Tetrahydrofuran	50.0000	52.6292	-5.3	100	0.00
40	P	Chloroform	50.0000	48.4512	3.1	96	0.00
41	P	1,1,1-Trichloroethane	50.0000	50.3400	-0.7	97	0.00
42		TAME	50.0000	52.0291	-4.1	100	0.00
43	I	1,4-Difluorobenzene	50.0000	50.0000	0.0	100	0.00
44	P	Cyclohexane	50.0000	48.6692	2.7	104	0.00
45	s	surr4,Dibrflmethane	50.0000	50.7115	-1.4	99	0.00
46	P	Carbontetrachloride	50.0000	47.2342	5.5	97	0.00
47		1,1-Dichloropropene	50.0000	44.7411	10.5	91	0.00
48	s	surr1,1,2-dichloroethane-d4	50.0000	49.4884	1.0	97	0.00
49	P	Benzene	50.0000	45.6244	8.8	93	0.00
50	P	1,2-Dichloroethane	50.0000	48.4077	3.2	99	0.00
51		Iso-Butyl Alcohol	1000.0000	958.0139	4.2	88	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 13:50:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.0000	41.9137	16.2	88	0.00
53		1-Butanol	2500.0000	9.1694	99.6#	0	0.00
54	P	Trichloroethene	50.0000	48.0628	3.9	98	0.00
55	P	Methylcyclohexane	50.0000	51.1463	-2.3	103	0.00
56	P	1,2-Diclpropane	50.0000	46.3056	7.4	94	0.00
57		Dibromomethane	50.0000	48.7405	2.5	100	0.00
58		1,4-Dioxane	1000.0000	1001.9085	-0.2	92	0.00
59		Methyl Methacrylate	50.0000	49.2535	1.5	93	0.00
60	P	Bromodichloromethane	50.0000	52.8614	-5.7	99	0.00
61		2-Nitropropane	100.0000	100.0356	-0.0	95	0.00
62		2-Chloroethylvinyl Ether	50.0000	56.7170	-13.4	104	0.00
63	P	cis-1,3-Dichloropropene	50.0000	48.8155	2.4	93	0.00
64	P	4-Methyl-2-pentanone	50.0000	50.8963	-1.8	103	0.00
65	s	SURR3,Toluene-d8	50.0000	50.1174	-0.2	97	0.00
66	P	Toluene	50.0000	46.8404	6.3	95	0.00
67	P	trans-1,3-Dichloropropene	50.0000	49.3957	1.2	95	0.00
68		Ethyl Methacrylate	50.0000	52.4996	-5.0	102	0.00
69	P	1,1,2-Trichloroethane	50.0000	49.8238	0.4	103	0.00
70	s	SURR2,BFB	50.0000	49.7964	0.4	96	0.00
71	I	d5-Chlorobenzene	50.0000	50.0000	0.0	100	0.00
72	P	Tetrachloroethene	50.0000	44.1572	11.7	93	0.00
73	P	2-Hexanone	50.0000	51.2339	-2.5	99	0.00
74		1,3-Dichloropropane	50.0000	46.3588	7.3	93	0.00
75	P	Dibromochloromethane	50.0000	51.3615	-2.7	100	0.00
76		N-Butyl Acetate	50.0000	52.7908	-5.6	103	0.00
77	P	1,2-Dibromoethane	50.0000	51.5115	-3.0	100	0.00
78	P	Chlorobenzene	50.0000	46.9407	6.1	94	0.00
79		3-CBTF	50.0000	48.9742	2.1	100	0.00
80		4-CBTF	50.0000	47.8421	4.3	97	0.00
81		1,1,1,2-Tetrachloroethane	50.0000	52.2440	-4.5	103	0.00
82	P	Ethylbenzene	50.0000	49.4056	1.2	100	0.00
83	P	(m+p)Xylene	100.0000	94.4757	5.5	95	0.00
84	P	o-Xylene	50.0000	47.3852	5.2	96	0.00
85	P	Styrene	50.0000	50.7172	-1.4	96	0.00
86	I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	97	0.00
87	P	Bromoform	50.0000	60.6366	-21.3#	109	0.00
88		2-CBTF	50.0000	51.4714	-2.9	99	0.00
89	P	Isopropylbenzene	50.0000	49.9447	0.1	94	0.00
90		Cyclohexanone	1000.0000	1017.0475	-1.7	86	0.00
91		trans-1,4-Dichloro-2-Butene	50.0000	54.6766	-9.4	97	0.00
92	P	1,1,2,2-Tetrachloroethane	50.0000	50.7211	-1.4	93	0.00
93		Bromobenzene	50.0000	48.4420	3.1	96	0.00
94		1,2,3-Trichloropropane	50.0000	49.0720	1.9	92	0.00
95		n-Propylbenzene	50.0000	49.9131	0.2	97	0.00
96		2-Chlorotoluene	50.0000	47.8900	4.2	94	0.00
97		3-Chlorotoluene	50.0000	52.6963	-5.4	100	0.00
98		4-Chlorotoluene	50.0000	48.3152	3.4	93	0.00
99		1,3,5-Trimethylbenzene	50.0000	50.8290	-1.7	95	0.00
100		tert-Butylbenzene	50.0000	48.4354	3.1	96	0.00
101		1,2,4-Trimethylbenzene	50.0000	50.2568	-0.5	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\083117\
Data File : P11701.D
Acq On : 31 Aug 2017 8:59 pm
Operator : B.ALLGEIER
Sample : icv Inst : MSVOA-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 13:50:18 2017
Quant Method : I:\ACQUDATA\msvoa12\Methods\W083117.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 01 13:46:44 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	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-DCBTF	50.0000	47.9122	4.2	98	0.00
103		sec-Butylbenzene	50.0000	48.8062	2.4	94	0.00
104		p-Isopropyltoluene	50.0000	50.3075	-0.6	94	0.00
105	P	1,3-Dclbenz	50.0000	47.0197	6.0	93	0.00
106	P	1,4-Dclbenz	50.0000	47.4645	5.1	93	0.00
107		2,4-DCBTF	50.0000	51.8373	-3.7	98	0.00
108		2,5-DCBTF	50.0000	50.4189	-0.8	98	0.00
109		n-Butylbenzene	50.0000	51.2272	-2.5	96	0.00
110	P	1,2-Dclbenz	50.0000	48.9890	2.0	94	0.00
111	P	1,2-Dibromo-3-chloropropane	50.0000	50.7056	-1.4	93	0.00
112		Trielution Dichlorotoluene	150.0000	157.8156	-5.2	100	0.00
113		1,3,5 Trichlorobenzene	50.0000	50.8731	-1.7	101	0.00
114		Coelution Dichlorotoluene	100.0000	106.7755	-6.8	102	0.00
115	P	1,2,4-Tcbenzene	50.0000	48.4124	3.2	97	0.00
116		Hexachlorobt	50.0000	48.8619	2.3	98	0.00
117		Naphthalen	50.0000	53.1656	-6.3	94	0.00
118		1,2,3-Tclbenzene	50.0000	48.5484	2.9	91	0.00
119		2,4,5-Trichlorotolene	50.0000	54.4064	-8.8	102	0.00
120		2,3,6-Trichlorotoluene	50.0000	65.1408	-30.3#	125	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood **Calibration Date:** 8/31/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1700087 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1700087-10	0.5ppb	I:\ACQUDATA\msvoa12\Data\083117\P11690.D	08/31/2017 16:58
09	RC1700087-09	1.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11691.D	08/31/2017 17:20
08	RC1700087-08	2.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11692.D	08/31/2017 17:42
07	RC1700087-07	5.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11693.D	08/31/2017 18:04
06	RC1700087-06	20.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11694.D	08/31/2017 18:26
05	RC1700087-05	50.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11695.D	08/31/2017 18:48
04	RC1700087-04	100.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11696.D	08/31/2017 19:09
03	RC1700087-03	150.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11697.D	08/31/2017 19:31
02	RC1700087-02	200.0ppb	I:\ACQUDATA\msvoa12\Data\083117\P11698.D	08/31/2017 19:53

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.787	09	1.000	0.8104	08	2.000	0.8487	07	5.000	0.8537
06	20.000	0.8804	05	50.000	0.8501	04	100.000	0.8844	03	150.000	0.8569
02	200.000	0.8985									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.39	09	1.000	1.258	08	2.000	1.149	07	5.000	1.287
06	20.000	1.27	05	50.000	1.235	04	100.000	1.25	03	150.000	1.228
02	200.000	1.269									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6764	09	1.000	0.6132	08	2.000	0.5625	07	5.000	0.5005
06	20.000	0.5219	05	50.000	0.4931	04	100.000	0.516	03	150.000	0.4999
02	200.000	0.525									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3156	09	1.000	0.4098	08	2.000	0.304	07	5.000	0.2871
06	20.000	0.314	05	50.000	0.292	04	100.000	0.283	03	150.000	0.2727
02	200.000	0.2904									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3878	09	1.000	0.3591	08	2.000	0.4165	07	5.000	0.385
06	20.000	0.3944	05	50.000	0.3726	04	100.000	0.3773	03	150.000	0.3537
02	200.000	0.3779									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.876	09	1.000	0.8987	08	2.000	0.8419	07	5.000	0.7968
06	20.000	0.8786	05	50.000	0.8453	04	100.000	0.8551	03	150.000	0.8286
02	200.000	0.8751									

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood **Calibration Date:** 8/31/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1700087 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6451	09	1.000	0.7433	08	2.000	0.6506	07	5.000	0.682
06	20.000	0.6704	05	50.000	0.6343	04	100.000	0.6382	03	150.000	0.6238
02	200.000	0.6385									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6275	09	1.000	0.556	08	2.000	0.5179	07	5.000	0.5553
06	20.000	0.5802	05	50.000	0.5475	04	100.000	0.5574	03	150.000	0.5449
02	200.000	0.5707									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	10.000	0.5289	06	20.000	0.4575	05	50.000	0.5265	04	100.000	0.5217
03	200.000	0.4982									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	10.000	0.275	06	20.000	0.2621	05	50.000	0.2853	04	100.000	0.2959
03	200.000	0.2759									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	10.000	1.384	06	20.000	1.215	05	50.000	1.327	04	100.000	1.326
03	200.000	1.191									

Client: Verina Consulting Group, LLC **Service Request:** R1708647
Project: Dover - Kirkwood **Calibration Date:** 8/31/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1700087 **Signal ID:** 1
Instrument ID: R-MS-12

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.1	≤20	0.8523	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	5.0	≤20	1.26	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	11.4	≤20	0.5454	0.100
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	13.3	≤20	0.3076	0.200
Trichloroethene (TCE)	TRG	Average RF	% RSD	4.9	≤20	0.3805	0.200
Vinyl Chloride	TRG	Average RF	% RSD	3.6	≤20	0.8551	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.6	≤20	0.6585	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	5.4	≤20	0.5619	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	5.9	≤20	0.5066	
Dibromofluoromethane	SURR	Average RF	% RSD	4.5	≤20	0.2788	
Toluene-d8	SURR	Average RF	% RSD	6.4	≤20	1.288	

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood

Service Request: R1708647
Calibration Date: 8/31/2017

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1700087
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1700087-01	icv	I:\ACQUDATA\msvoa12\Data\083117\P11701.D	08/31/2017 20:59

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.3	8.523E-1	8.58E-1	0.680	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	48.7	1.26E0	1.228E0	-2.551	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	43.2	5.454E-1	4.713E-1	-13.579	±30	Average RF
Tetrachloroethene (PCE)	50.0	44.2	3.076E-1	2.717E-1	-11.686	±30	Average RF
Trichloroethene (TCE)	50.0	48.1	3.805E-1	3.657E-1	-3.874	±30	Average RF
Vinyl Chloride	50.0	53.2	8.551E-1	9.101E-1	6.43	±30	Average RF
cis-1,2-Dichloroethene	50.0	45.3	6.585E-1	5.969E-1	-9.353	±30	Average RF
trans-1,2-Dichloroethene	50.0	46.0	5.619E-1	5.175E-1	-7.905	±30	Average RF
4-Bromofluorobenzene	50.0	49.8	5.066E-1	5.045E-1	-0.407	±30	Average RF
Dibromofluoromethane	50.0	50.7	2.788E-1	2.828E-1	1.42	±30	Average RF
Toluene-d8	50.0	50.1	1.288E0	1.292E0	0.235	±30	Average RF

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002

Service Request: R1708647
Date Analyzed: 09/15/17 20:59

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\091517\P12114.D\

Calibration Date: 8/31/2017
Calibration ID: RC1700087
Analysis Lot: 561774
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.4	0.8523	0.8585	0.7	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.3	1.2596	1.3178	4.6	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	53.7	0.5454	0.5852	7.3	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	53.0	0.3076	0.3259	5.9	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.4	0.3805	0.3912	2.8	NA	±20	Average RF
Vinyl Chloride	50.0	58.4	0.8551	0.9981	16.7	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	50.7	0.6585	0.6679	1.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	54.8	0.5619	0.6155	9.5	NA	±20	Average RF
4-Bromofluorobenzene	50.0	49.2	0.5066	0.498	-1.7	NA	±20	Average RF
Dibromofluoromethane	50.0	48.6	0.2788	0.2711	-2.8	NA	±20	Average RF
Toluene-d8	50.0	50.6	1.2885	1.3051	1.3	NA	±20	Average RF

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002

Service Request: R1708647
Date Analyzed: 09/18/17 10:37

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\091817\P12140.D\

Calibration Date: 8/31/2017
Calibration ID: RC1700087
Analysis Lot: 561975
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.9	0.8523	0.7993	-6.2	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	46.7	1.2596	1.177	-6.6	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.7	0.5454	0.4982	-8.7	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	47.2	0.3076	0.2905	-5.5	NA	±20	Average RF
Trichloroethene (TCE)	50.0	45.6	0.3805	0.3469	-8.8	NA	±20	Average RF
Vinyl Chloride	50.0	48.7	0.8551	0.8336	-2.5	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	45.0	0.6585	0.5925	-10.0	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	47.7	0.5619	0.5365	-4.5	NA	±20	Average RF
4-Bromofluorobenzene	50.0	47.7	0.5066	0.4828	-4.7	NA	±20	Average RF
Dibromofluoromethane	50.0	50.2	0.2788	0.2799	0.4	NA	±20	Average RF
Toluene-d8	50.0	47.9	1.2885	1.2352	-4.1	NA	±20	Average RF

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**561774
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\091517\P12113.D\	ZZZZZZZ	ZZZZZZZ	9/15/2017	20:37:00	
I:\ACQUDATA\msvoa12\Data\091517\P12114.D\	Continuing Calibration Verification	RQ1709319-02	9/15/2017	20:59:00	
I:\ACQUDATA\msvoa12\Data\091517\P12115.D\	Lab Control Sample	RQ1709319-03	9/15/2017	21:21:00	
I:\ACQUDATA\msvoa12\Data\091517\P12116.D\	Duplicate Lab Control Sample	RQ1709319-04	9/15/2017	21:43:00	
I:\ACQUDATA\msvoa12\Data\091517\P12118.D\	Method Blank	RQ1709319-05	9/15/2017	22:27:00	
I:\ACQUDATA\msvoa12\Data\091517\P12119.D\	Trip Blank	R1708647-001	9/15/2017	22:49:00	
I:\ACQUDATA\msvoa12\Data\091517\P12120.D\	EB-091117	R1708647-006	9/15/2017	23:10:00	
I:\ACQUDATA\msvoa12\Data\091517\P12121.D\	EB-091217	R1708647-017	9/15/2017	23:32:00	
I:\ACQUDATA\msvoa12\Data\091517\P12122.D\	EB-091317	R1708647-018	9/15/2017	23:54:00	
I:\ACQUDATA\msvoa12\Data\091517\P12123.D\	MP-13	R1708647-002	9/16/2017	00:16:00	
I:\ACQUDATA\msvoa12\Data\091517\P12124.D\	MW-31	R1708647-003	9/16/2017	00:38:00	
I:\ACQUDATA\msvoa12\Data\091517\P12125.D\	MW-13	R1708647-004	9/16/2017	01:00:00	
I:\ACQUDATA\msvoa12\Data\091517\P12126.D\	MW-32	R1708647-005	9/16/2017	01:22:00	
I:\ACQUDATA\msvoa12\Data\091517\P12127.D\	MW-37	R1708647-007	9/16/2017	01:44:00	
I:\ACQUDATA\msvoa12\Data\091517\P12128.D\	MW-30	R1708647-008	9/16/2017	02:06:00	
I:\ACQUDATA\msvoa12\Data\091517\P12129.D\	MP-8S	R1708647-009	9/16/2017	02:28:00	
I:\ACQUDATA\msvoa12\Data\091517\P12130.D\	MW-26	R1708647-010	9/16/2017	02:50:00	
I:\ACQUDATA\msvoa12\Data\091517\P12131.D\	MW-19	R1708647-011	9/16/2017	03:12:00	
I:\ACQUDATA\msvoa12\Data\091517\P12132.D\	MP-8D	R1708647-012	9/16/2017	03:34:00	
I:\ACQUDATA\msvoa12\Data\091517\P12133.D\	MW-27	R1708647-013	9/16/2017	03:55:00	
I:\ACQUDATA\msvoa12\Data\091517\P12134.D\	MP-6D	R1708647-014	9/16/2017	04:17:00	
I:\ACQUDATA\msvoa12\Data\091517\P12135.D\	MW-38	R1708647-015	9/16/2017	04:39:00	
I:\ACQUDATA\msvoa12\Data\091817\P12139.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	10:09:00	

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**561774
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\091817\P12145.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	12:55:00	
I:\ACQUDATA\msvoa12\Data\091817\P12146.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	13:16:00	
I:\ACQUDATA\msvoa12\Data\091817\P12147.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	13:39:00	
I:\ACQUDATA\msvoa12\Data\091817\P12148.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	14:01:00	
I:\ACQUDATA\msvoa12\Data\091817\P12149.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	14:23:00	
I:\ACQUDATA\msvoa12\Data\091817\P12151.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	15:07:00	
I:\ACQUDATA\msvoa12\Data\091817\P12152.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	15:29:00	
I:\ACQUDATA\msvoa12\Data\091817\P12153.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	15:51:00	
I:\ACQUDATA\msvoa12\Data\091817\P12154.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	16:13:00	
I:\ACQUDATA\msvoa12\Data\091817\P12155.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	16:35:00	
I:\ACQUDATA\msvoa12\Data\091817\P12156.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	16:58:00	
I:\ACQUDATA\msvoa12\Data\091817\P12157.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	17:20:00	
I:\ACQUDATA\msvoa12\Data\091817\P12158.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	17:42:00	
I:\ACQUDATA\msvoa12\Data\091817\P12159.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	18:04:00	
I:\ACQUDATA\msvoa12\Data\091817\P12160.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	18:26:00	
I:\ACQUDATA\msvoa12\Data\091817\P12161.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	18:48:00	
I:\ACQUDATA\msvoa12\Data\091817\P12162.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	19:10:00	
I:\ACQUDATA\msvoa12\Data\091817\P12163.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	19:32:00	
I:\ACQUDATA\msvoa12\Data\091817\P12165.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	20:16:00	
I:\ACQUDATA\msvoa12\Data\091817\P12166.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	20:38:00	
I:\ACQUDATA\msvoa12\Data\091817\P12167.D\	ZZZZZZZ	ZZZZZZZ	9/18/2017	21:00:00	

Client: Verina Consulting Group, LLC **Service Request:**R1708647
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**561975
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\091817\P12140.D\	Continuing Calibration Verification	RQ1709391-02	9/18/2017	10:37:00	
I:\ACQUDATA\msvoa12\Data\091817\P12141.D\	Lab Control Sample	RQ1709391-03	9/18/2017	11:06:00	
I:\ACQUDATA\msvoa12\Data\091817\P12143.D\	Method Blank	RQ1709391-04	9/18/2017	12:05:00	
I:\ACQUDATA\msvoa12\Data\091817\P12144.D\	MW-35	R1708647-016	9/18/2017	12:33:00	

Analysis: 5200 waters | Analyst: KRuest | pH strips: 206717 | Tune Method: W083117

Date: 9/15/17 - Run#2 | Balance ID: N/A | ResCl strips: N/A | Run Method: ↓

Instr. 12 | 50 mL Class A used for dilution FV | Syringes: 177416 | LIMS Run#: 561774

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments (KR)
25	JUNE		RQ1709319-01					P12113	Y	@scan (-1595) @ 20:37
26	CCV		02					P12114	Y	Y (KR)
27	LCS		03					P12115	Y	* vc ↑
28	LCSD		04					P12116	Y	all OK
29	MBLK		—					P12117	(N)	not c/o
30	↓		↓ 05					P12118	Y	
31	RQ1708047-001	1.0		6046	4	1	<2	P12119	Y	
32	006	1.0				1	<2	P12120	Y	
33	017	1.0				1	<2	P12121	Y	
34	018	1.0				1	<2	P12122	Y	
35	002	1.0				1	<2	P12123	Y	
36	003	1.0				1	<2	P12124	Y	
37	004	1.0				1	<2	P12125	Y	
38	005	1.0				1	<2	P12126	Y	
39	007	1.0				1	<2	P12127	Y	
40	008	1.0				1	<2	P12128	Y	
41	009	1.0				1	<2	P12129	Y	
42	010	1.0				1	<2	P12130	Y	
43	011	1.0				1	<2	P12131	Y	
44	012	1.0				1	<2	P12132	Y	
45	013	1.0				1	<2	P12133	Y	
46	014	1.0				1	<2	P12134	Y	
47	015	1.0				1	<2	P12135	Y	
48	↓ 016	1.0		↓	↓	1	<2	P12136	(N)	not c/o
										EOD 9/15/17

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Combined IS/Surr

Surrogate 50 : 183529

Internal Std 50 : 183530

Reagents:

500 Primary CCC+ : 182232

Primary RF+ : 183932 5ml → 50mls

Primary TC : 184032 = CCV

Primary HSL : 183636

Primary

200 Secondary RF+ : 184000 - 5ml

500 Secondary CCC+ : 183170

Secondary TC : 183576 2ml 50mls

Secondary HSL : 183623 = LCS/D

Secondary

Runlog-MSVOAr4 1/17/17

Analysis: 5260 Waters	Analyst: ICQuest	pH strips: 201717	Tune Method: W083117
Date: 9/18/17	Balance ID: N/A	ResCl strips: N/A	Run Method: ↓
Instr. 12	50 mL Class A used for dilution FV	Syringes: 177416	LIMS Run#: 561975

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							P12137		
2	↓							P12138		
3	TUNE		R1709391-01					P12139	YT	(auto) 10:09
4	CCV		02					P12140	YC	
5	LCS		03					P12141	YO	
6	VBLK		—					P12142	(Y)	wpt 1.0
7	↓		↓ 04					P12143	YB	
1	R1708647-016	1.0		60446	4	2	LZ	P12144	Y	
2	R1708607-021	1.0	(DDD)	15614	2	1	LZ	P12145	Y	
3	↓ 022	1.0	↓	↓	↓	1	LZ	P12146	Y	
4	R1708525-002	2.0	25/50mls	60556	3	2	LZ	P12147	(N)	(DL)
5	R1708385-001	2.0	↓	14733	2	2	LZ	P12148	(N)	wpt 5.0
6	↓ 001	5.0	10/50mls	↓	↓	2	LZ	P12149	(N)	(DL)
7	BLK					—	-	P12150	—	
8	R1708605-002	1.0	(DDD)	15614	2	1	LZ	P12151	Y	
9	003	1.0				1	LZ	P12152	Y	
10	004	1.0				1	LZ	P12153	Y	
11	005	1.0				1	LZ	P12154	Y	
12	006	1.0				1	LZ	P12155	Y	
13	007	1.0				1	LZ	P12156	Y	
14	008	1.0				1	LZ	P12157	Y	
15	009	1.0				1	LZ	P12158	Y	
16	010	1.0				1	LZ	P12159	Y	
17	011	1.0				1	LZ	P12160	Y	
18	012	1.0				1	LZ	P12161	Y	
19	013	1.0				1	LZ	P12162	Y	
20	014	1.0				1	LZ	P12163	Y	
21	001	2.5	20/50mls			1	LZ	P12164	(N)	wpt 1.0
22	MS 002	1.0				2	LZ	P12165	YO	
23	↓ MSD 002	1.0				3	LZ	P12166	YO	
24	Closing CCV		↓	↓	↓	—	—	P12167	YC	21:00 ✓
25	BLK						—	P12168	—	

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Combined IS/Surr —

Surrogate 50 : 1853529

Internal Std 50 : 1853530

Reagents:

500 Primary Occ+ : 1852232

Primary Fr+ : 1853932 — 5ul → 50mls

Primary TG : 1841032 — = CCV

Primary HSL : 1836358

Primary —

200 Secondary Fr+ : 1841000 - 5ul

500 Secondary Occ+ : 1853170

Secondary TG : 1853078 — 2ml

Secondary HSL : 1836223 — 50mls = LCS

Secondary —

~10.6mL

4.2mL

4.2ml vial = MS/D

Runlog-MSVOAr4 1/17/17

September 22, 2017 Service Request No:R1708648

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

Laboratory Results for: Dover - Kirkwood

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory September 14, 2017
For your reference, these analyses have been assigned our service request number **R1708648.**

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.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request:R1708648
Date Received:9/14/17

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

Sixteen water samples were received for analysis at ALS Environmental on 09/14/2017. 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 ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Note on samples- Several samples ran and reported at dilution (giving weaker results) due to matrix issues. These issues were either limited volume available due to particulates present with water in vials or a dark purple color (like permanganate solution) which was too thick and foamy to run straight.

Approved by _____ Date 9/22/2017

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-3	Lab ID: R1708648-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	130		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	0.60	J	0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.0		0.30	1.0	ug/L	8260C

CLIENT ID: MP-6S	Lab ID: R1708648-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	280	D	0.75	2.5	ug/L	8260C
Trichloroethene (TCE)	2.3		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.3		0.30	1.0	ug/L	8260C

CLIENT ID: MW-24	Lab ID: R1708648-006					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	0.30	J	0.30	1.0	ug/L	8260C

CLIENT ID: MP-12	Lab ID: R1708648-008					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	4.6		0.60	2.0	ug/L	8260C

CLIENT ID: MP-14	Lab ID: R1708648-009					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	26		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	0.38	J	0.22	1.0	ug/L	8260C

CLIENT ID: MW-16	Lab ID: R1708648-011					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	60		0.30	1.0	ug/L	8260C
Trichloroethene (TCE)	0.28	J	0.22	1.0	ug/L	8260C

CLIENT ID: MP-5	Lab ID: R1708648-012					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	7.8		0.60	2.0	ug/L	8260C

CLIENT ID: MW-7A	Lab ID: R1708648-013					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	6.2		0.30	1.0	ug/L	8260C

CLIENT ID: MP-4	Lab ID: R1708648-014					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	820		1.5	5.0	ug/L	8260C

CLIENT ID: MP-11	Lab ID: R1708648-015					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	7.7		0.30	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: DUP-091317	Lab ID: R1708648-016					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Tetrachloroethene (PCE)	610		1.5	5.0	ug/L	8260C

Sample Receipt Information

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

Client: Verina Consulting Group, LLC **Service Request:**R1708648
Project: Dover - Kirkwood/5101.0002

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1708648-001	MW-3	9/12/2017	1115
R1708648-002	MP-6S	9/12/2017	1405
R1708648-003	IJ-1	9/12/2017	1440
R1708648-004	IJ-10	9/12/2017	1440
R1708648-005	IJ-4	9/13/2017	1000
R1708648-006	MW-24	9/13/2017	1010
R1708648-007	MW-28	9/13/2017	1015
R1708648-008	MP-12	9/13/2017	1130
R1708648-009	MP-14	9/13/2017	1145
R1708648-010	MW-25	9/13/2017	1225
R1708648-011	MW-16	9/13/2017	1325
R1708648-012	MP-5	9/13/2017	1335
R1708648-013	MW-7A	9/13/2017	1420
R1708648-014	MP-4	9/13/2017	1450
R1708648-015	MP-11	9/13/2017	1505
R1708648-016	DUP-091317	9/13/2017	

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

46770

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

Project Name: Dover - Kirkwood	Project Number: 5101.0002
Project Manager: Sarah ~~Tufaro~~ MacCarter	Report CC:
Company/Address: 1011 US Highway 22 - Suite 302 Bridgewater NJ, 08807 Verina Consulting Group, LLC	
Phone #: 908-864-4480	Email: ~~stufaro@vcg-llc.com~~ SMaccarter@vcg-llc.com
Sampler's Signature: MAA	Sampler's Printed Name: Matt Gandy, Brian Nale

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SSPL VOCs	REMARKS/ ALTERNATE DESCRIPTION
MP-8D		9/12/17	10:20	GW	3	X	
Mw-27			11:10	GW	3	X	
mw-3(MS/MSD)			11:15	GW	9	X	
MP-6D			12:20	GW	3	X	
mw-38			13:05	GW	3	X	
Mw-35			13:10	GW	3	X	
MP-6S			14:05	GW	3	X	
IJ-1			14:40	GW	3	X	
IJ-10			14:40	GW	3	X	
EB-091217			15:45	EB	3	X	Equipment Blank
IJ-4		9/13/17	10:00	GW	3	X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Sodium Thiosulfate

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOC's: PCE, TCE, cis-1,2-DCE
trans-1,2-DCE, 1,1-DCE, 1,1-DCA
1,1,1-TCA and VC

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
REQUESTED REPORT DATE: Standard

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: MAA	Signature:	Signature	Signature	Signature	
Printed Name: Matt Gandy	Printed Name:	Printed Name	Printed Name	Printed Name	
Firm: Verina	Firm:	Firm	Firm	Firm	
Date/Time: 9/13/17 @ 17:00	Date/Time: 9/14/17 0940	Date/Time	Date/Time	Date/Time	Date/Time

R1708648 5
Verina Consulting Group, LLC
Dover - Kirkwood

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

46772

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 3 OF 4

Project Name: Dover-Kirkwood	Project Number: 5101.0002
Project Manager: Sarah MacCarter	Report CC:
Company/Address: Verina Consulting Group, LLC, 1011 US Highway 22 Suite 302 Bridgewater NJ 08807	
Phone #: 908-864-4400	Email: smaccarter@vcg-llc.com
Sampler's Signature:	Sampler's Printed Name: Matt Gandy, Brian Nale

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1,8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SSPL VOCs	REMARKS/ ALTERNATE DESCRIPTION
MW-24		9/13/17	10:10	GW	3	X	
MW-28			10:15	GW	3	X	
MP-12			11:30	GW	3	X	
MP-14			11:45	GW	3	X	
MW-25			12:25	GW	3	X	
MW-16			13:25	GW	3	X	
MP-5			13:35	GW	3	X	
MW-7A			14:20	GW	3	X	
MP-4			14:50	GW	3	X	
MP-11		↓	15:05	GW	3	X	
DUP-091317				GW	3	X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Sodium thiosulfate

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOCs: PCE, TCE, cis-1,2-DCE trans-1,2-DCE, 1,1-DCE, 1,1-DCA 1,1,1-TCA and VC

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata X Yes ____ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: Matt Gandy	Printed Name	Printed Name	Printed Name	Printed Name	
Firm: Verina	Firm	Firm	Firm	Firm	
Date/Time: 09/13/17 @ 17:00	Date/Time: 9/14/17 0940	Date/Time	Date/Time	Date/Time	

R1708647 5
Verina Consulting Group, LLC
Dover - Kirkwood

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

R1708648 5
Verina Consulting Group, LLC
Dover - Kirkwood

Project/Client Verina Folder Number R17-8648

Cooler received on 9/14/17 by: @ COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) Dry Ice Gel packs present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 9/14/17 Time: 1013 ID: IR#7 (IR#8) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	1.5						
Correction Factor (°C)	+0.4						
Corrected Temp (°C)	1.9						
Temp from:Type of bottle	voa vial						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed 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 @ on 9/14/17 at 1015
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 9/14/17 Time: 2317 by: DW

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 (N/A)
13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
		$Na_2S_2O_3$	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

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

Bottle lot numbers: C9-222-001

Explain all Discrepancies/ Other Comments:

Headspace - see COC.

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

Labels secondary reviewed by: JN

PC Secondary Review: JN 9/15/17 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1708648-001.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-001.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-001.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-001.04					
		9/14/2017	2321	SMO / DWARD	
R1708648-001.05					
		9/14/2017	2321	SMO / DWARD	
R1708648-001.06					
		9/14/2017	2321	SMO / DWARD	
R1708648-001.07					
		9/14/2017	2321	SMO / DWARD	
R1708648-001.08					
		9/14/2017	2321	SMO / DWARD	
R1708648-001.09					
		9/14/2017	2321	SMO / DWARD	
R1708648-002.01					
	8260C,8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1848	R-001-S11 / DLIPANI	
R1708648-002.02					

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-002.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-003.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1848	R-001-S11 / DLIPANI	
R1708648-003.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-003.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-004.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1848	R-001-S11 / DLIPANI	
R1708648-004.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-004.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-005.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1708648-005.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-005.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-006.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-006.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-006.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-007.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-007.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-007.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-008.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-008.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-008.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-009.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-009.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-009.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-010.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1848	R-001-S11 / DLIPANI	
R1708648-010.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-010.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-011.01					

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-011.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-011.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-012.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1848	R-001-S11 / DLIPANI	
R1708648-012.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-012.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-013.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-013.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-013.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1708648-014.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-014.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-014.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-015.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-015.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-015.03					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-016.01					
	8260C				
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
		9/15/2017	1012	In Lab / DLIPANI	
		9/15/2017	1849	R-001-S11 / DLIPANI	
R1708648-016.02					
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	
R1708648-016.03					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2017	2320	R-001 / DWARD	
		9/14/2017	2320	SMO / DWARD	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
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

[1] Analyses were performed according to our laboratoryôs 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

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.

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002		

Sample Name:	MW-3	**Date Collected:**	09/12/17
Lab Code:	R1708648-001	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	MP-6S	**Date Collected:**	09/12/17
Lab Code:	R1708648-002	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	IJ-1	**Date Collected:**	09/12/17
Lab Code:	R1708648-003	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	IJ-10	**Date Collected:**	09/12/17
Lab Code:	R1708648-004	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	IJ-4	**Date Collected:**	09/13/17
Lab Code:	R1708648-005	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002

Sample Name: MW-24 **Date Collected:** 09/13/17
Lab Code: R1708648-006 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: MW-28 **Date Collected:** 09/13/17
Lab Code: R1708648-007 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: MP-12 **Date Collected:** 09/13/17
Lab Code: R1708648-008 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: MP-14 **Date Collected:** 09/13/17
Lab Code: R1708648-009 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: MW-25 **Date Collected:** 09/13/17
Lab Code: R1708648-010 **Date Received:** 09/14/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002		

Sample Name:	MW-16	**Date Collected:**	09/13/17
Lab Code:	R1708648-011	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	MP-5	**Date Collected:**	09/13/17
Lab Code:	R1708648-012	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	MW-7A	**Date Collected:**	09/13/17
Lab Code:	R1708648-013	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	MP-4	**Date Collected:**	09/13/17
Lab Code:	R1708648-014	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	MP-11	**Date Collected:**	09/13/17
Lab Code:	R1708648-015	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Analyst Summary report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002		

Sample Name:	DUP-091317	**Date Collected:**	09/13/17
Lab Code:	R1708648-016	**Date Received:**	09/14/17
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

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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Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 11:15
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R1708648-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 17:54	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 17:54	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 17:54	
Tetrachloroethene (PCE)	**130**		1.0	0.30	1	09/15/17 17:54	
Trichloroethene (TCE)	**0.60**	**J**	1.0	0.22	1	09/15/17 17:54	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 17:54	
cis-1,2-Dichloroethene	**2.0**		1.0	0.30	1	09/15/17 17:54	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 17:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/15/17 17:54	
Dibromofluoromethane	103	89 - 119	09/15/17 17:54	
Toluene-d8	111	87 - 121	09/15/17 17:54	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 14:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-6S	**Units:**	ug/L
Lab Code:	R1708648-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 18:20	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 18:20	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 18:20	
Tetrachloroethene (PCE)	**280**	**D**	2.5	0.75	2.5	09/15/17 19:12	
Trichloroethene (TCE)	**2.3**		1.0	0.22	1	09/15/17 18:20	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 18:20	
cis-1,2-Dichloroethene	**2.3**		1.0	0.30	1	09/15/17 18:20	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 18:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 18:20	
Dibromofluoromethane	102	89 - 119	09/15/17 18:20	
Toluene-d8	108	87 - 121	09/15/17 18:20	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 14:40
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	IJ-1	**Units:**	ug/L
Lab Code:	R1708648-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	3.6	10	09/15/17 11:23	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	09/15/17 11:23	
1,1-Dichloroethene (1,1-DCE)	10 U	10	5.7	10	09/15/17 11:23	
Tetrachloroethene (PCE)	10 U	10	3.0	10	09/15/17 11:23	
Trichloroethene (TCE)	10 U	10	2.2	10	09/15/17 11:23	
Vinyl Chloride	10 U	10	3.2	10	09/15/17 11:23	
cis-1,2-Dichloroethene	10 U	10	3.0	10	09/15/17 11:23	
trans-1,2-Dichloroethene	10 U	10	3.3	10	09/15/17 11:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	09/15/17 11:23	
Dibromofluoromethane	100	89 - 119	09/15/17 11:23	
Toluene-d8	109	87 - 121	09/15/17 11:23	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 14:40
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	IJ-10	**Units:**	ug/L
Lab Code:	R1708648-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	3.6	10	09/15/17 11:49	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	09/15/17 11:49	
1,1-Dichloroethene (1,1-DCE)	10 U	10	5.7	10	09/15/17 11:49	
Tetrachloroethene (PCE)	10 U	10	3.0	10	09/15/17 11:49	
Trichloroethene (TCE)	10 U	10	2.2	10	09/15/17 11:49	
Vinyl Chloride	10 U	10	3.2	10	09/15/17 11:49	
cis-1,2-Dichloroethene	10 U	10	3.0	10	09/15/17 11:49	
trans-1,2-Dichloroethene	10 U	10	3.3	10	09/15/17 11:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/15/17 11:49	
Dibromofluoromethane	103	89 - 119	09/15/17 11:49	
Toluene-d8	111	87 - 121	09/15/17 11:49	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 10:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	IJ-4	**Units:**	ug/L
Lab Code:	R1708648-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 12:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 12:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 12:15	
Tetrachloroethene (PCE)	5.0 U	5.0	1.5	5	09/15/17 12:15	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 12:15	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 12:15	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 12:15	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 12:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 12:15	
Dibromofluoromethane	101	89 - 119	09/15/17 12:15	
Toluene-d8	110	87 - 121	09/15/17 12:15	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 10:10
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-24	**Units:**	ug/L
Lab Code:	R1708648-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 12:41	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 12:41	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 12:41	
Tetrachloroethene (PCE)	**0.30**	**J**	1.0	0.30	1	09/15/17 12:41	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	09/15/17 12:41	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 12:41	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/15/17 12:41	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 12:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 12:41	
Dibromofluoromethane	100	89 - 119	09/15/17 12:41	
Toluene-d8	108	87 - 121	09/15/17 12:41	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 10:15
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-28	**Units:**	ug/L
Lab Code:	R1708648-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 13:06	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 13:06	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 13:06	
Tetrachloroethene (PCE)	5.0 U	5.0	1.5	5	09/15/17 13:06	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 13:06	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 13:06	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 13:06	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 13:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 13:06	
Dibromofluoromethane	100	89 - 119	09/15/17 13:06	
Toluene-d8	108	87 - 121	09/15/17 13:06	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 11:30
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-12	**Units:**	ug/L
Lab Code:	R1708648-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	0.72	2	09/15/17 13:58	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.40	2	09/15/17 13:58	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	1.2	2	09/15/17 13:58	
Tetrachloroethene (PCE)	**4.6**	2.0	0.60	2	09/15/17 13:58	
Trichloroethene (TCE)	2.0 U	2.0	0.44	2	09/15/17 13:58	
Vinyl Chloride	2.0 U	2.0	0.64	2	09/15/17 13:58	
cis-1,2-Dichloroethene	2.0 U	2.0	0.60	2	09/15/17 13:58	
trans-1,2-Dichloroethene	2.0 U	2.0	0.66	2	09/15/17 13:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/15/17 13:58	
Dibromofluoromethane	104	89 - 119	09/15/17 13:58	
Toluene-d8	112	87 - 121	09/15/17 13:58	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 11:45
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-14	**Units:**	ug/L
Lab Code:	R1708648-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 14:24	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 14:24	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 14:24	
Tetrachloroethene (PCE)	**26**		1.0	0.30	1	09/15/17 14:24	
Trichloroethene (TCE)	**0.38**	**J**	1.0	0.22	1	09/15/17 14:24	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 14:24	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/15/17 14:24	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 14:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 14:24	
Dibromofluoromethane	100	89 - 119	09/15/17 14:24	
Toluene-d8	109	87 - 121	09/15/17 14:24	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 12:25
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-25	**Units:**	ug/L
Lab Code:	R1708648-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 17:28	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 17:28	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 17:28	
Tetrachloroethene (PCE)	5.0 U	5.0	1.5	5	09/15/17 17:28	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 17:28	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 17:28	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 17:28	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 17:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/15/17 17:28	
Dibromofluoromethane	99	89 - 119	09/15/17 17:28	
Toluene-d8	110	87 - 121	09/15/17 17:28	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 13:25
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1708648-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 16:11	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 16:11	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 16:11	
Tetrachloroethene (PCE)	**60**		1.0	0.30	1	09/15/17 16:11	
Trichloroethene (TCE)	**0.28**	**J**	1.0	0.22	1	09/15/17 16:11	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 16:11	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/15/17 16:11	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 16:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/15/17 16:11	
Dibromofluoromethane	104	89 - 119	09/15/17 16:11	
Toluene-d8	111	87 - 121	09/15/17 16:11	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 13:35
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-5	**Units:**	ug/L
Lab Code:	R1708648-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	0.72	2	09/15/17 14:50	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.40	2	09/15/17 14:50	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	1.2	2	09/15/17 14:50	
Tetrachloroethene (PCE)	**7.8**	2.0	0.60	2	09/15/17 14:50	
Trichloroethene (TCE)	2.0 U	2.0	0.44	2	09/15/17 14:50	
Vinyl Chloride	2.0 U	2.0	0.64	2	09/15/17 14:50	
cis-1,2-Dichloroethene	2.0 U	2.0	0.60	2	09/15/17 14:50	
trans-1,2-Dichloroethene	2.0 U	2.0	0.66	2	09/15/17 14:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/15/17 14:50	
Dibromofluoromethane	100	89 - 119	09/15/17 14:50	
Toluene-d8	108	87 - 121	09/15/17 14:50	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 14:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-7A	**Units:**	ug/L
Lab Code:	R1708648-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 17:02	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 17:02	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 17:02	
Tetrachloroethene (PCE)	**6.2**	1.0	0.30	1	09/15/17 17:02	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 17:02	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 17:02	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 17:02	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 17:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/15/17 17:02	
Dibromofluoromethane	101	89 - 119	09/15/17 17:02	
Toluene-d8	107	87 - 121	09/15/17 17:02	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 14:50
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-4	**Units:**	ug/L
Lab Code:	R1708648-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 15:44	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 15:44	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 15:44	
Tetrachloroethene (PCE)	**820**	5.0	1.5	5	09/15/17 15:44	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 15:44	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 15:44	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 15:44	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 15:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 15:44	
Dibromofluoromethane	100	89 - 119	09/15/17 15:44	
Toluene-d8	110	87 - 121	09/15/17 15:44	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 15:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-11	**Units:**	ug/L
Lab Code:	R1708648-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 13:32	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 13:32	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 13:32	
Tetrachloroethene (PCE)	**7.7**	1.0	0.30	1	09/15/17 13:32	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 13:32	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 13:32	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 13:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 13:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/15/17 13:32	
Dibromofluoromethane	103	89 - 119	09/15/17 13:32	
Toluene-d8	110	87 - 121	09/15/17 13:32	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	DUP-091317	**Units:**	ug/L
Lab Code:	R1708648-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 18:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 18:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 18:46	
Tetrachloroethene (PCE)	**610**	5.0	1.5	5	09/15/17 18:46	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 18:46	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 18:46	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 18:46	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/15/17 18:46	
Dibromofluoromethane	100	89 - 119	09/15/17 18:46	
Toluene-d8	110	87 - 121	09/15/17 18:46	

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
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
www.alsglobal.com

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

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

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 89 - 119	Toluene-d8 87 - 121
MW-3	R1708648-001	99	103	111
MP-6S	R1708648-002	101	102	108
IJ-1	R1708648-003	104	100	109
IJ-10	R1708648-004	102	103	111
IJ-4	R1708648-005	101	101	110
MW-24	R1708648-006	101	100	108
MW-28	R1708648-007	101	100	108
MP-12	R1708648-008	102	104	112
MP-14	R1708648-009	101	100	109
MW-25	R1708648-010	99	99	110
MW-16	R1708648-011	100	104	111
MP-5	R1708648-012	99	100	108
MW-7A	R1708648-013	102	101	107
MP-4	R1708648-014	101	100	110
MP-11	R1708648-015	103	103	110
DUP-091317	R1708648-016	103	100	110
Lab Control Sample	RQ1709369-03	106	103	109
Method Blank	RQ1709369-04	103	100	110
MW-3 MS	RQ1709369-05	106	102	109
MW-3 DMS	RQ1709369-06	105	102	109

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17
Sample Matrix:	Water	**Date Received:**	09/14/17
		Date Analyzed:	09/15/17

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R1708648-001	**Basis:**	NA
Analysis Method:	8260C		

		Matrix Spike RQ1709369-05			Duplicate Matrix Spike RQ1709369-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	1.0 U	52.4	50.0	105	51.9	50.0	104	74-127	<1	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	58.5	50.0	117	55.3	50.0	111	74-132	6	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	54.5	50.0	109	51.9	50.0	104	74-139	5	30
Tetrachloroethene (PCE)	130	176	50.0	100	176	50.0	100	67-137	<1	30
Trichloroethene (TCE)	0.60 J	53.9	50.0	107	54.2	50.0	107	62-142	<1	30
Vinyl Chloride	1.0 U	67.2	50.0	134	60.5	50.0	121	60-157	10	30
cis-1,2-Dichloroethene	2.0	59.0	50.0	114	57.5	50.0	111	72-133	3	30
trans-1,2-Dichloroethene	1.0 U	55.4	50.0	111	52.5	50.0	105	77-125	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1708648
Date Analyzed: 09/15/17 10:57

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

Sample Name: Method Blank
Lab Code: RQ1709369-04

Instrument ID:R-MS-06
File ID:I:\ACQUDATA\MSVOA6\DATA\091517\D8194.D\

Analysis Method: 8260C

Analysis Lot:561775

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1709369-03	I:\ACQUDATA\MSVOA6\DATA\091517 \D8192.D\	09/15/17 10:04
IJ-1	R1708648-003	I:\ACQUDATA\MSVOA6\DATA\091517 \D8195.D\	09/15/17 11:23
IJ-10	R1708648-004	I:\ACQUDATA\MSVOA6\DATA\091517 \D8196.D\	09/15/17 11:49
IJ-4	R1708648-005	I:\ACQUDATA\MSVOA6\DATA\091517 \D8197.D\	09/15/17 12:15
MW-24	R1708648-006	I:\ACQUDATA\MSVOA6\DATA\091517 \D8198.D\	09/15/17 12:41
MW-28	R1708648-007	I:\ACQUDATA\MSVOA6\DATA\091517 \D8199.D\	09/15/17 13:06
MP-11	R1708648-015	I:\ACQUDATA\MSVOA6\DATA\091517 \D8200.D\	09/15/17 13:32
MP-12	R1708648-008	I:\ACQUDATA\MSVOA6\DATA\091517 \D8201.D\	09/15/17 13:58
MP-14	R1708648-009	I:\ACQUDATA\MSVOA6\DATA\091517 \D8202.D\	09/15/17 14:24
MP-5	R1708648-012	I:\ACQUDATA\MSVOA6\DATA\091517 \D8203.D\	09/15/17 14:50
MP-4	R1708648-014	I:\ACQUDATA\MSVOA6\DATA\091517 \D8205.D\	09/15/17 15:44
MW-16	R1708648-011	I:\ACQUDATA\MSVOA6\DATA\091517 \D8206.D\	09/15/17 16:11
MW-7A	R1708648-013	I:\ACQUDATA\MSVOA6\DATA\091517 \D8208.D\	09/15/17 17:02
MW-25	R1708648-010	I:\ACQUDATA\MSVOA6\DATA\091517 \D8209.D\	09/15/17 17:28
MW-3	R1708648-001	I:\ACQUDATA\MSVOA6\DATA\091517 \D8210.D\	09/15/17 17:54
MP-6S	R1708648-002	I:\ACQUDATA\MSVOA6\DATA\091517 \D8211.D\	09/15/17 18:20
DUP-091317	R1708648-016	I:\ACQUDATA\MSVOA6\DATA\091517 \D8212.D\	09/15/17 18:46
MP-6S	R1708648-002	I:\ACQUDATA\MSVOA6\DATA\091517 \D8213.D\	09/15/17 19:12
MW-3	RQ1709369-05	I:\ACQUDATA\MSVOA6\DATA\091517 \D8214.D\	09/15/17 19:37
MW-3	RQ1709369-06	I:\ACQUDATA\MSVOA6\DATA\091517 \D8215.D\	09/15/17 20:03

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1709369-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 10:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 10:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 10:57	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	09/15/17 10:57	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 10:57	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 10:57	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 10:57	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 10:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/15/17 10:57	
Dibromofluoromethane	100	89 - 119	09/15/17 10:57	
Toluene-d8	110	87 - 121	09/15/17 10:57	

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1708648
Date Analyzed: 09/15/17 10:04

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

Sample Name: Lab Control Sample
Lab Code: RQ1709369-03

Instrument ID:R-MS-06
File ID:I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D\

Analysis Method: 8260C
Analysis Lot:561775

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1709369-04	I:\ACQUDATA\MSVOA6\DATA\091517 \D8194.D\	09/15/17 10:57
IJ-1	R1708648-003	I:\ACQUDATA\MSVOA6\DATA\091517 \D8195.D\	09/15/17 11:23
IJ-10	R1708648-004	I:\ACQUDATA\MSVOA6\DATA\091517 \D8196.D\	09/15/17 11:49
IJ-4	R1708648-005	I:\ACQUDATA\MSVOA6\DATA\091517 \D8197.D\	09/15/17 12:15
MW-24	R1708648-006	I:\ACQUDATA\MSVOA6\DATA\091517 \D8198.D\	09/15/17 12:41
MW-28	R1708648-007	I:\ACQUDATA\MSVOA6\DATA\091517 \D8199.D\	09/15/17 13:06
MP-11	R1708648-015	I:\ACQUDATA\MSVOA6\DATA\091517 \D8200.D\	09/15/17 13:32
MP-12	R1708648-008	I:\ACQUDATA\MSVOA6\DATA\091517 \D8201.D\	09/15/17 13:58
MP-14	R1708648-009	I:\ACQUDATA\MSVOA6\DATA\091517 \D8202.D\	09/15/17 14:24
MP-5	R1708648-012	I:\ACQUDATA\MSVOA6\DATA\091517 \D8203.D\	09/15/17 14:50
MP-4	R1708648-014	I:\ACQUDATA\MSVOA6\DATA\091517 \D8205.D\	09/15/17 15:44
MW-16	R1708648-011	I:\ACQUDATA\MSVOA6\DATA\091517 \D8206.D\	09/15/17 16:11
MW-7A	R1708648-013	I:\ACQUDATA\MSVOA6\DATA\091517 \D8208.D\	09/15/17 17:02
MW-25	R1708648-010	I:\ACQUDATA\MSVOA6\DATA\091517 \D8209.D\	09/15/17 17:28
MW-3	R1708648-001	I:\ACQUDATA\MSVOA6\DATA\091517 \D8210.D\	09/15/17 17:54
MP-6S	R1708648-002	I:\ACQUDATA\MSVOA6\DATA\091517 \D8211.D\	09/15/17 18:20
DUP-091317	R1708648-016	I:\ACQUDATA\MSVOA6\DATA\091517 \D8212.D\	09/15/17 18:46
MP-6S	R1708648-002	I:\ACQUDATA\MSVOA6\DATA\091517 \D8213.D\	09/15/17 19:12
MW-3	RQ1709369-05	I:\ACQUDATA\MSVOA6\DATA\091517 \D8214.D\	09/15/17 19:37
MW-3	RQ1709369-06	I:\ACQUDATA\MSVOA6\DATA\091517 \D8215.D\	09/15/17 20:03

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002
Sample Matrix: Water

Service Request: R1708648
Date Analyzed: 09/15/17

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

Units:ug/L
Basis:NA

Lab Control Sample
RQ1709369-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.1	20.0	100	74-120
1,1-Dichloroethane (1,1-DCA)	8260C	22.3	20.0	111	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	20.0	20.0	100	74-135
Tetrachloroethene (PCE)	8260C	20.8	20.0	104	78-124
Trichloroethene (TCE)	8260C	19.4	20.0	97	78-123
Vinyl Chloride	8260C	24.6	20.0	123	69-133
cis-1,2-Dichloroethene	8260C	21.3	20.0	106	80-121
trans-1,2-Dichloroethene	8260C	20.6	20.0	103	80-120

Client: Verina Consulting Group, LLC **Service Request:**R1708648
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/15/17 08:53

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA6\DATA\091517\D8190.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-06 **Analysis Lot:** 561775

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.97	23937	Pass
75	95	30	60	50.70	60784	Pass
95	95	100	100	100.00	119885	Pass
96	95	5	9	7.08	8491	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	104.54	125328	Pass
175	174	5	9	8.83	11062	Pass
176	174	95	101	96.32	120712	Pass
177	176	5	9	7.36	8890	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1709369-02	I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D\	09/15/17 09:31	
Lab Control Sample	RQ1709369-03	I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D\	09/15/17 10:04	
Method Blank	RQ1709369-04	I:\ACQUDATA\MSVOA6\DATA\091517\D8194.D\	09/15/17 10:57	
IJ-1	R1708648-003	I:\ACQUDATA\MSVOA6\DATA\091517\D8195.D\	09/15/17 11:23	
IJ-10	R1708648-004	I:\ACQUDATA\MSVOA6\DATA\091517\D8196.D\	09/15/17 11:49	
IJ-4	R1708648-005	I:\ACQUDATA\MSVOA6\DATA\091517\D8197.D\	09/15/17 12:15	
MW-24	R1708648-006	I:\ACQUDATA\MSVOA6\DATA\091517\D8198.D\	09/15/17 12:41	
MW-28	R1708648-007	I:\ACQUDATA\MSVOA6\DATA\091517\D8199.D\	09/15/17 13:06	
MP-11	R1708648-015	I:\ACQUDATA\MSVOA6\DATA\091517\D8200.D\	09/15/17 13:32	
MP-12	R1708648-008	I:\ACQUDATA\MSVOA6\DATA\091517\D8201.D\	09/15/17 13:58	
MP-14	R1708648-009	I:\ACQUDATA\MSVOA6\DATA\091517\D8202.D\	09/15/17 14:24	
MP-5	R1708648-012	I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D\	09/15/17 14:50	
MP-4	R1708648-014	I:\ACQUDATA\MSVOA6\DATA\091517\D8205.D\	09/15/17 15:44	
MW-16	R1708648-011	I:\ACQUDATA\MSVOA6\DATA\091517\D8206.D\	09/15/17 16:11	
MW-7A	R1708648-013	I:\ACQUDATA\MSVOA6\DATA\091517\D8208.D\	09/15/17 17:02	
MW-25	R1708648-010	I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D\	09/15/17 17:28	
MW-3	R1708648-001	I:\ACQUDATA\MSVOA6\DATA\091517\D8210.D\	09/15/17 17:54	
MP-6S	R1708648-002	I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D\	09/15/17 18:20	
DUP-091317	R1708648-016	I:\ACQUDATA\MSVOA6\DATA\091517\D8212.D\	09/15/17 18:46	
MP-6S	R1708648-002	I:\ACQUDATA\MSVOA6\DATA\091517\D8213.D\	09/15/17 19:12	
MW-3	RQ1709369-05	I:\ACQUDATA\MSVOA6\DATA\091517\D8214.D\	09/15/17 19:37	
MW-3	RQ1709369-06	I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D\	09/15/17 20:03	

Client: Verina Consulting Group, LLC **Service Request:**R1708648
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/15/17 09:31

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

File ID: I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D\ **Lab Code:**RQ1709369-02
Instrument ID: R-MS-06 **Analysis Lot:**561775
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	235,963	11.29	419,445	5.87	203,036	9.19
	Upper Limit ==>	471,926	11.79	838,890	6.37	406,072	9.69
	Lower Limit ==>	117,982	10.79	209,723	5.37	101,518	8.69
Associated Analyses							
Lab Control Sample	RQ1709369-03	224814	11.29	420814	5.88	195627	9.19
Method Blank	RQ1709369-04	205837	11.29	403145	5.87	188978	9.19
IJ-1	R1708648-003	205462	11.29	398801	5.87	187664	9.19
IJ-10	R1708648-004	203624	11.29	383061	5.87	185427	9.19
IJ-4	R1708648-005	201851	11.29	393978	5.87	185043	9.19
MW-24	R1708648-006	201506	11.29	388946	5.87	184402	9.20
MW-28	R1708648-007	200837	11.29	396236	5.88	183572	9.20
MP-11	R1708648-015	203565	11.29	381444	5.87	184649	9.19
MP-12	R1708648-008	198524	11.29	384606	5.88	185035	9.19
MP-14	R1708648-009	198799	11.29	392847	5.88	186712	9.19
MP-5	R1708648-012	202230	11.29	389142	5.87	185360	9.19
MP-4	R1708648-014	201604	11.29	393686	5.87	184149	9.19
MW-16	R1708648-011	197902	11.29	378226	5.87	187014	9.20
MW-7A	R1708648-013	190357	11.29	384004	5.87	181316	9.19
MW-25	R1708648-010	201004	11.29	394846	5.88	183327	9.19
MW-3	R1708648-001	199757	11.29	387324	5.87	186725	9.19
MP-6S	R1708648-002	196229	11.29	381811	5.87	183388	9.19
DUP-091317	R1708648-016	201767	11.29	384389	5.87	183235	9.19
MP-6S	R1708648-002.R01	199906	11.29	383681	5.87	183352	9.19
MW-3	RQ1709369-05	224846	11.29	405569	5.87	195477	9.20
MW-3	RQ1709369-06	235032	11.29	410305	5.87	201818	9.19

Client: Verina Consulting Group, LLC **Service Request:**R1708648
Project: Dover - Kirkwood/5101.0002 **Date Analyzed:**09/15/17 09:31

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

File ID: I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D\ **Lab Code:**RQ1709369-02
Instrument ID: R-MS-06 **Analysis Lot:**561775
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	313,170	4.59
	Upper Limit ==>	626,340	5.09
	Lower Limit ==>	156,585	4.09
Associated Analyses			
Lab Control Sample	RQ1709369-03	312409	4.60
Method Blank	RQ1709369-04	292995	4.59
IJ-1	R1708648-003	287765	4.59
IJ-10	R1708648-004	283017	4.59
IJ-4	R1708648-005	286827	4.59
MW-24	R1708648-006	279586	4.60
MW-28	R1708648-007	287806	4.60
MP-11	R1708648-015	279946	4.60
MP-12	R1708648-008	285954	4.60
MP-14	R1708648-009	281036	4.60
MP-5	R1708648-012	288249	4.60
MP-4	R1708648-014	287511	4.59
MW-16	R1708648-011	283037	4.60
MW-7A	R1708648-013	278180	4.60
MW-25	R1708648-010	284073	4.59
MW-3	R1708648-001	284291	4.59
MP-6S	R1708648-002	272804	4.60
DUP-091317	R1708648-016	276248	4.60
MP-6S	R1708648-002.R01	276331	4.60
MW-3	RQ1709369-05	295949	4.60
MW-3	RQ1709369-06	309177	4.59

Raw Data

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

Volatile Organic Compounds by GC/MS

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Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 11:15
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R1708648-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 17:54	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 17:54	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 17:54	
Tetrachloroethene (PCE)	**130**		1.0	0.30	1	09/15/17 17:54	
Trichloroethene (TCE)	**0.60**	**J**	1.0	0.22	1	09/15/17 17:54	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 17:54	
cis-1,2-Dichloroethene	**2.0**		1.0	0.30	1	09/15/17 17:54	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 17:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/15/17 17:54	
Dibromofluoromethane	103	89 - 119	09/15/17 17:54	
Toluene-d8	111	87 - 121	09/15/17 17:54	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 14:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-6S	**Units:**	ug/L
Lab Code:	R1708648-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 18:20	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 18:20	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 18:20	
Tetrachloroethene (PCE)	**280**	**D**	2.5	0.75	2.5	09/15/17 19:12	
Trichloroethene (TCE)	**2.3**		1.0	0.22	1	09/15/17 18:20	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 18:20	
cis-1,2-Dichloroethene	**2.3**		1.0	0.30	1	09/15/17 18:20	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 18:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 18:20	
Dibromofluoromethane	102	89 - 119	09/15/17 18:20	
Toluene-d8	108	87 - 121	09/15/17 18:20	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 14:40
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	IJ-1	**Units:**	ug/L
Lab Code:	R1708648-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	3.6	10	09/15/17 11:23	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	09/15/17 11:23	
1,1-Dichloroethene (1,1-DCE)	10 U	10	5.7	10	09/15/17 11:23	
Tetrachloroethene (PCE)	10 U	10	3.0	10	09/15/17 11:23	
Trichloroethene (TCE)	10 U	10	2.2	10	09/15/17 11:23	
Vinyl Chloride	10 U	10	3.2	10	09/15/17 11:23	
cis-1,2-Dichloroethene	10 U	10	3.0	10	09/15/17 11:23	
trans-1,2-Dichloroethene	10 U	10	3.3	10	09/15/17 11:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	09/15/17 11:23	
Dibromofluoromethane	100	89 - 119	09/15/17 11:23	
Toluene-d8	109	87 - 121	09/15/17 11:23	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/12/17 14:40
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	IJ-10	**Units:**	ug/L
Lab Code:	R1708648-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	3.6	10	09/15/17 11:49	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	09/15/17 11:49	
1,1-Dichloroethene (1,1-DCE)	10 U	10	5.7	10	09/15/17 11:49	
Tetrachloroethene (PCE)	10 U	10	3.0	10	09/15/17 11:49	
Trichloroethene (TCE)	10 U	10	2.2	10	09/15/17 11:49	
Vinyl Chloride	10 U	10	3.2	10	09/15/17 11:49	
cis-1,2-Dichloroethene	10 U	10	3.0	10	09/15/17 11:49	
trans-1,2-Dichloroethene	10 U	10	3.3	10	09/15/17 11:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/15/17 11:49	
Dibromofluoromethane	103	89 - 119	09/15/17 11:49	
Toluene-d8	111	87 - 121	09/15/17 11:49	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 10:00
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	IJ-4	**Units:**	ug/L
Lab Code:	R1708648-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 12:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 12:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 12:15	
Tetrachloroethene (PCE)	5.0 U	5.0	1.5	5	09/15/17 12:15	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 12:15	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 12:15	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 12:15	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 12:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 12:15	
Dibromofluoromethane	101	89 - 119	09/15/17 12:15	
Toluene-d8	110	87 - 121	09/15/17 12:15	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 10:10
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-24	**Units:**	ug/L
Lab Code:	R1708648-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 12:41	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 12:41	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 12:41	
Tetrachloroethene (PCE)	**0.30**	**J**	1.0	0.30	1	09/15/17 12:41	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	09/15/17 12:41	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 12:41	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/15/17 12:41	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 12:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 12:41	
Dibromofluoromethane	100	89 - 119	09/15/17 12:41	
Toluene-d8	108	87 - 121	09/15/17 12:41	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 10:15
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-28	**Units:**	ug/L
Lab Code:	R1708648-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 13:06	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 13:06	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 13:06	
Tetrachloroethene (PCE)	5.0 U	5.0	1.5	5	09/15/17 13:06	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 13:06	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 13:06	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 13:06	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 13:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 13:06	
Dibromofluoromethane	100	89 - 119	09/15/17 13:06	
Toluene-d8	108	87 - 121	09/15/17 13:06	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 11:30
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-12	**Units:**	ug/L
Lab Code:	R1708648-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	0.72	2	09/15/17 13:58	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.40	2	09/15/17 13:58	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	1.2	2	09/15/17 13:58	
Tetrachloroethene (PCE)	**4.6**	2.0	0.60	2	09/15/17 13:58	
Trichloroethene (TCE)	2.0 U	2.0	0.44	2	09/15/17 13:58	
Vinyl Chloride	2.0 U	2.0	0.64	2	09/15/17 13:58	
cis-1,2-Dichloroethene	2.0 U	2.0	0.60	2	09/15/17 13:58	
trans-1,2-Dichloroethene	2.0 U	2.0	0.66	2	09/15/17 13:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/15/17 13:58	
Dibromofluoromethane	104	89 - 119	09/15/17 13:58	
Toluene-d8	112	87 - 121	09/15/17 13:58	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 11:45
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-14	**Units:**	ug/L
Lab Code:	R1708648-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 14:24	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 14:24	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 14:24	
Tetrachloroethene (PCE)	**26**		1.0	0.30	1	09/15/17 14:24	
Trichloroethene (TCE)	**0.38**	**J**	1.0	0.22	1	09/15/17 14:24	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 14:24	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/15/17 14:24	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 14:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 14:24	
Dibromofluoromethane	100	89 - 119	09/15/17 14:24	
Toluene-d8	109	87 - 121	09/15/17 14:24	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 12:25
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-25	**Units:**	ug/L
Lab Code:	R1708648-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 17:28	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 17:28	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 17:28	
Tetrachloroethene (PCE)	5.0 U	5.0	1.5	5	09/15/17 17:28	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 17:28	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 17:28	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 17:28	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 17:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/15/17 17:28	
Dibromofluoromethane	99	89 - 119	09/15/17 17:28	
Toluene-d8	110	87 - 121	09/15/17 17:28	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 13:25
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1708648-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	09/15/17 16:11	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	09/15/17 16:11	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	09/15/17 16:11	
Tetrachloroethene (PCE)	**60**		1.0	0.30	1	09/15/17 16:11	
Trichloroethene (TCE)	**0.28**	**J**	1.0	0.22	1	09/15/17 16:11	
Vinyl Chloride	1.0	U	1.0	0.32	1	09/15/17 16:11	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	09/15/17 16:11	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	09/15/17 16:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/15/17 16:11	
Dibromofluoromethane	104	89 - 119	09/15/17 16:11	
Toluene-d8	111	87 - 121	09/15/17 16:11	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 13:35
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-5	**Units:**	ug/L
Lab Code:	R1708648-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	0.72	2	09/15/17 14:50	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.40	2	09/15/17 14:50	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	1.2	2	09/15/17 14:50	
Tetrachloroethene (PCE)	**7.8**	2.0	0.60	2	09/15/17 14:50	
Trichloroethene (TCE)	2.0 U	2.0	0.44	2	09/15/17 14:50	
Vinyl Chloride	2.0 U	2.0	0.64	2	09/15/17 14:50	
cis-1,2-Dichloroethene	2.0 U	2.0	0.60	2	09/15/17 14:50	
trans-1,2-Dichloroethene	2.0 U	2.0	0.66	2	09/15/17 14:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/15/17 14:50	
Dibromofluoromethane	100	89 - 119	09/15/17 14:50	
Toluene-d8	108	87 - 121	09/15/17 14:50	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 14:20
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MW-7A	**Units:**	ug/L
Lab Code:	R1708648-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 17:02	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 17:02	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 17:02	
Tetrachloroethene (PCE)	**6.2**	1.0	0.30	1	09/15/17 17:02	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 17:02	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 17:02	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 17:02	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 17:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/15/17 17:02	
Dibromofluoromethane	101	89 - 119	09/15/17 17:02	
Toluene-d8	107	87 - 121	09/15/17 17:02	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 14:50
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-4	**Units:**	ug/L
Lab Code:	R1708648-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 15:44	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 15:44	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 15:44	
Tetrachloroethene (PCE)	**820**	5.0	1.5	5	09/15/17 15:44	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 15:44	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 15:44	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 15:44	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 15:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/15/17 15:44	
Dibromofluoromethane	100	89 - 119	09/15/17 15:44	
Toluene-d8	110	87 - 121	09/15/17 15:44	

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17 15:05
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	MP-11	**Units:**	ug/L
Lab Code:	R1708648-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	09/15/17 13:32	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/15/17 13:32	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	09/15/17 13:32	
Tetrachloroethene (PCE)	**7.7**	1.0	0.30	1	09/15/17 13:32	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	09/15/17 13:32	
Vinyl Chloride	1.0 U	1.0	0.32	1	09/15/17 13:32	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	09/15/17 13:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	09/15/17 13:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/15/17 13:32	
Dibromofluoromethane	103	89 - 119	09/15/17 13:32	
Toluene-d8	110	87 - 121	09/15/17 13:32	

Analytical Report

Client:	Verina Consulting Group, LLC	**Service Request:**	R1708648
Project:	Dover - Kirkwood/5101.0002	**Date Collected:**	09/13/17
Sample Matrix:	Water	**Date Received:**	09/14/17 09:40
Sample Name:	DUP-091317	**Units:**	ug/L
Lab Code:	R1708648-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

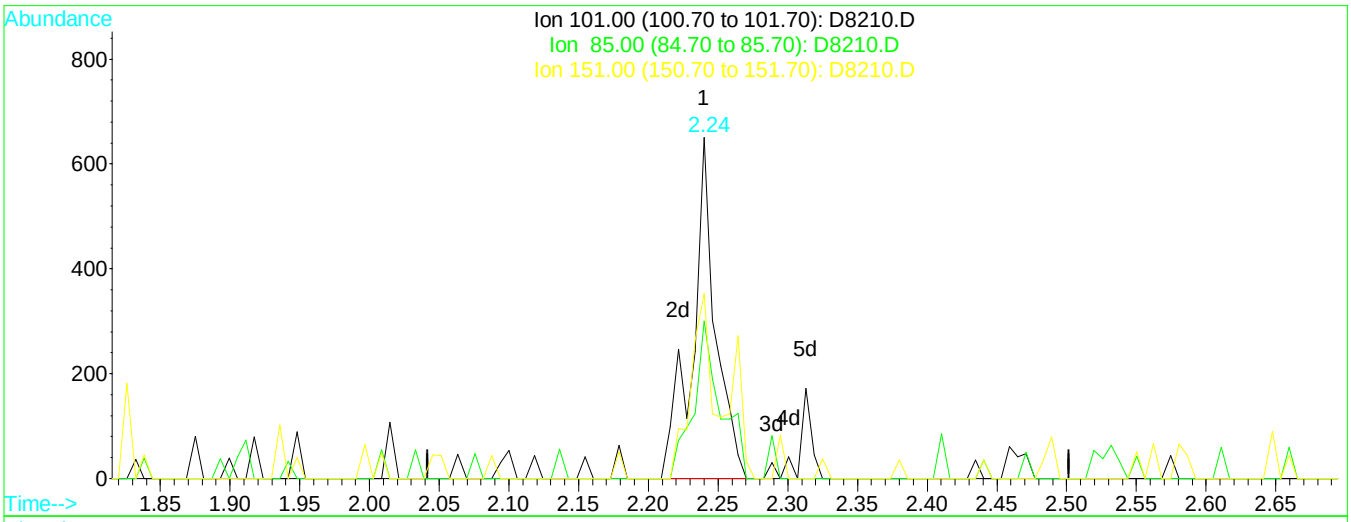
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.8	5	09/15/17 18:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	09/15/17 18:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	2.9	5	09/15/17 18:46	
Tetrachloroethene (PCE)	**610**	5.0	1.5	5	09/15/17 18:46	
Trichloroethene (TCE)	5.0 U	5.0	1.1	5	09/15/17 18:46	
Vinyl Chloride	5.0 U	5.0	1.6	5	09/15/17 18:46	
cis-1,2-Dichloroethene	5.0 U	5.0	1.5	5	09/15/17 18:46	
trans-1,2-Dichloroethene	5.0 U	5.0	1.7	5	09/15/17 18:46	

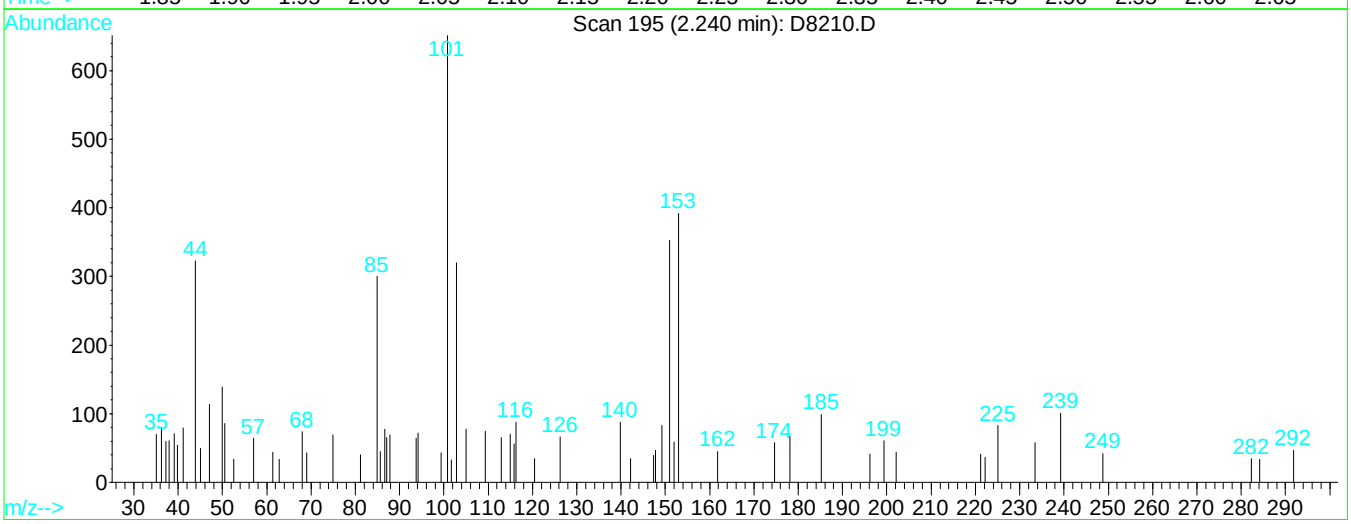
Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/15/17 18:46	
Dibromofluoromethane	100	89 - 119	09/15/17 18:46	
Toluene-d8	110	87 - 121	09/15/17 18:46	

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8210.D Vial: 24
Acq On : 15 Sep 2017 5:54 pm Operator: D.Lipani
Sample : R1708648-001|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:30 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: D8210.D

(21) Freon 113 (P)

2.24min 0.33ug/L m

response 749

Ion	Exp%	Act%
101.00	100	100
85.00	45.60	46.08
151.00	81.00	54.22#
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

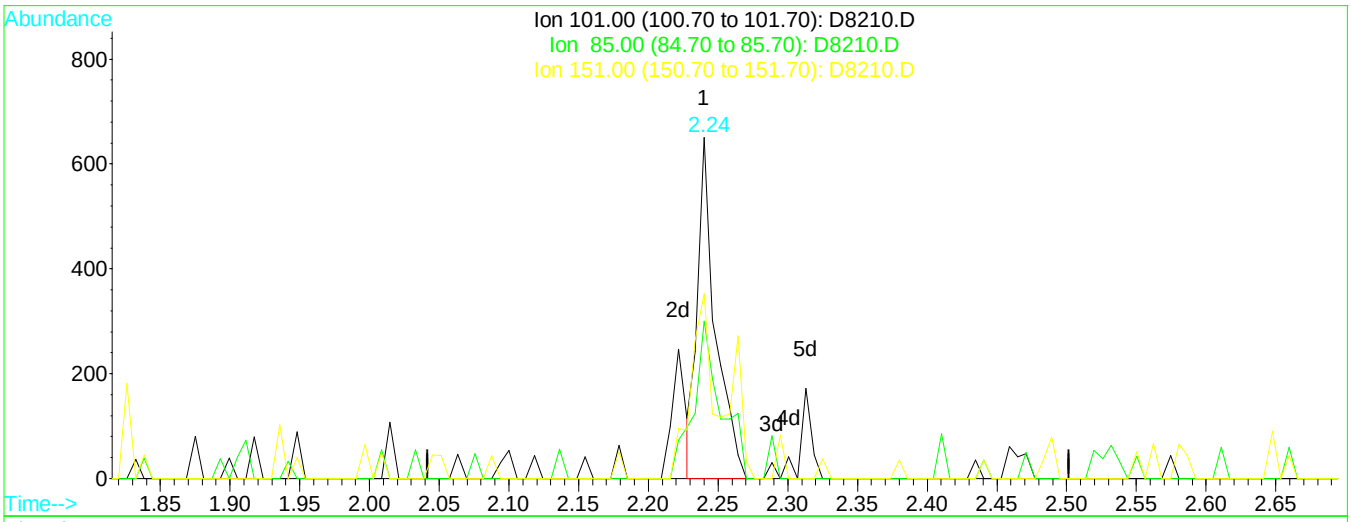
09/18/17

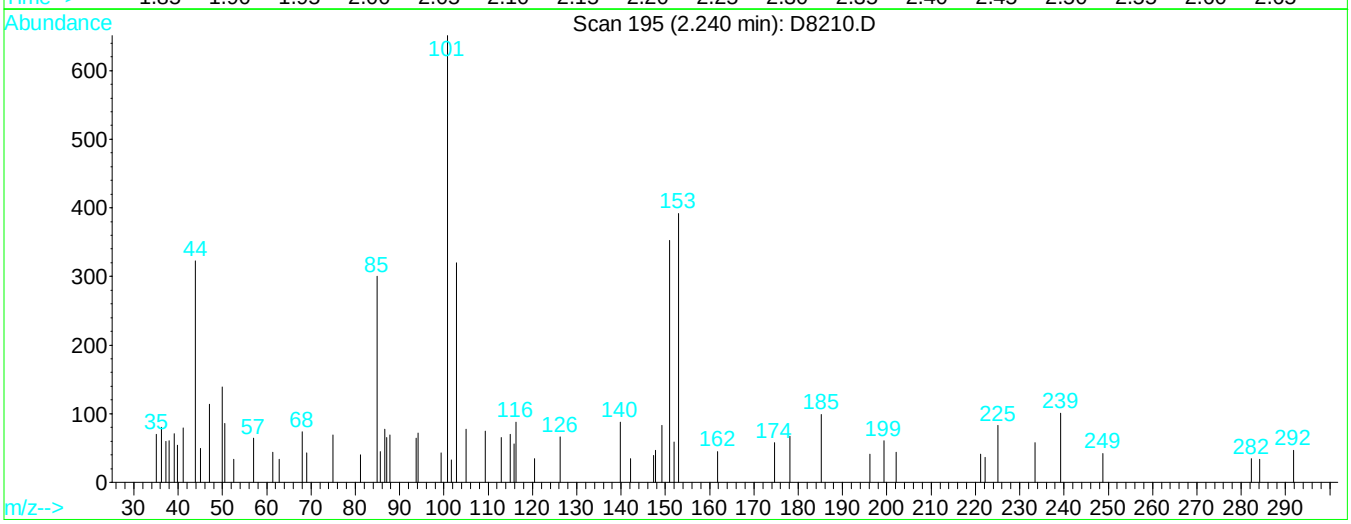
D8210.D W082417.M Mon Sep 18 13:30:12 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8210.D Vial: 24
Acq On : 15 Sep 2017 5:54 pm Operator: D.Lipani
Sample : R1708648-001|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:29 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: D8210.D

(21) Freon 113 (P)

2.24min 0.26ug/L

response 580

Ion	Exp%	Act%
101.00	100	100
85.00	45.60	50.44
151.00	81.00	51.61#
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8210.D Vial: 24
Acq On : 15 Sep 2017 5:54 pm Operator: D.Lipani
Sample : R1708648-001|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:31 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

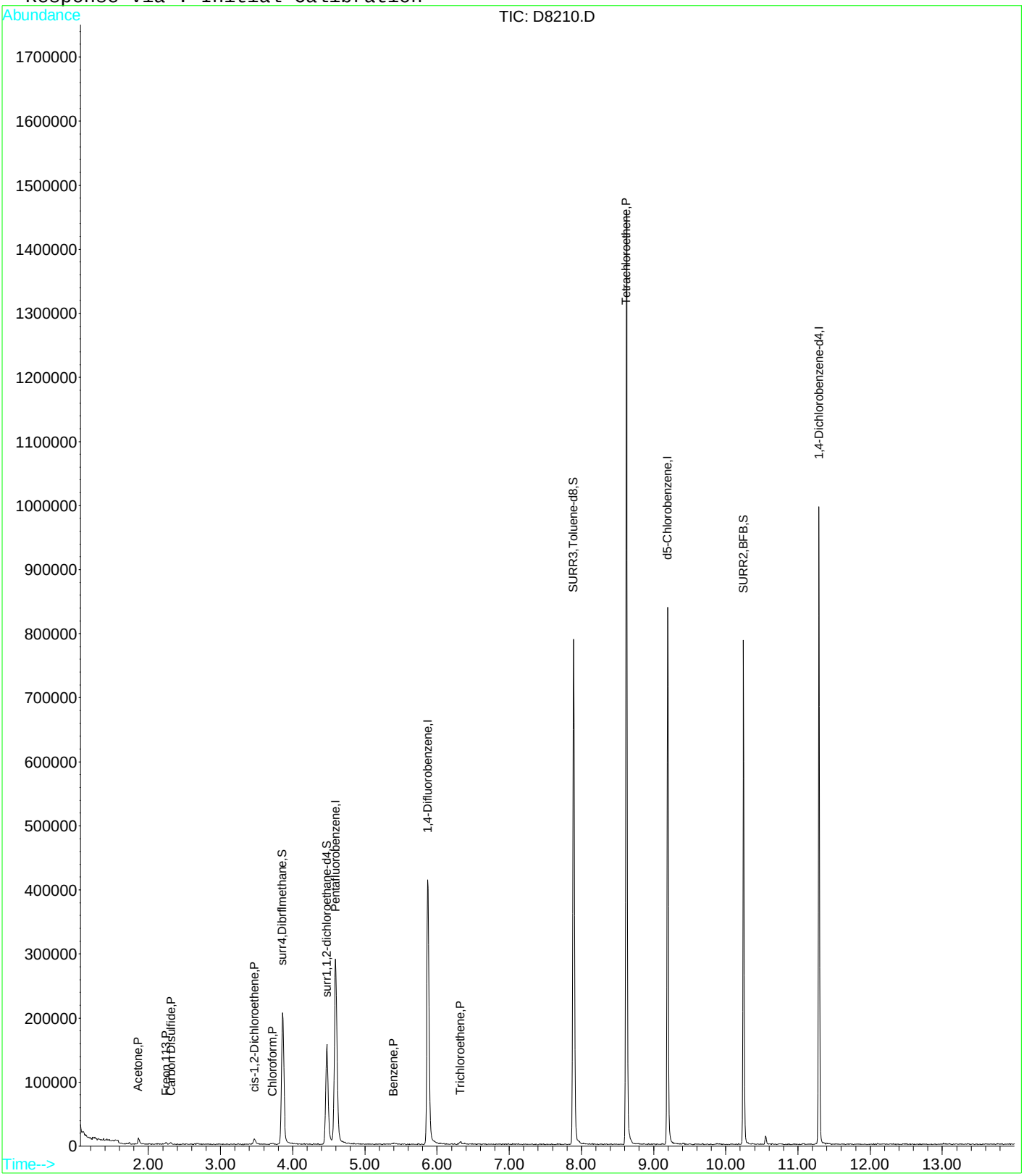
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	4.59	168	284291	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	5.87	114	387324	50.00	ug/L		0.00
67) d5-Chlorobenzene	9.19	82	186725	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	199757	50.00	ug/L		0.00
System Monitoring Compounds							
41) surr4,Dibrflmethane	3.86	113	142648	51.35	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.70%				
43) surr1,1,2-dichloroethane-d	4.47	65	147212	48.93	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.86%				
65) SURR3,Toluene-d8	7.89	98	436325	55.63	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.26%				
86) SURR2,BFB	10.25	95	173743	49.68	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.36%				
Target Compounds							Qvalue
14) Acetone	1.86	43	8776	16.49	ug/L		81
21) Freon 113	2.24	101	749m	0.33	ug/L		
24) Carbon Disulfide	2.31	76	2363	0.39	ug/L		84
33) cis-1,2-Dichloroethene	3.47	96	4459	2.00	ug/L	#	52
35) Chloroform	3.72	83	1263	0.33	ug/L		73
49) Benzene	5.40	78	1580	0.21	ug/L		89
54) Trichloroethene	6.32	130	1514	0.60	ug/L		93
74) Tetrachloroethene	8.63	164	281435	126.24	ug/L		97

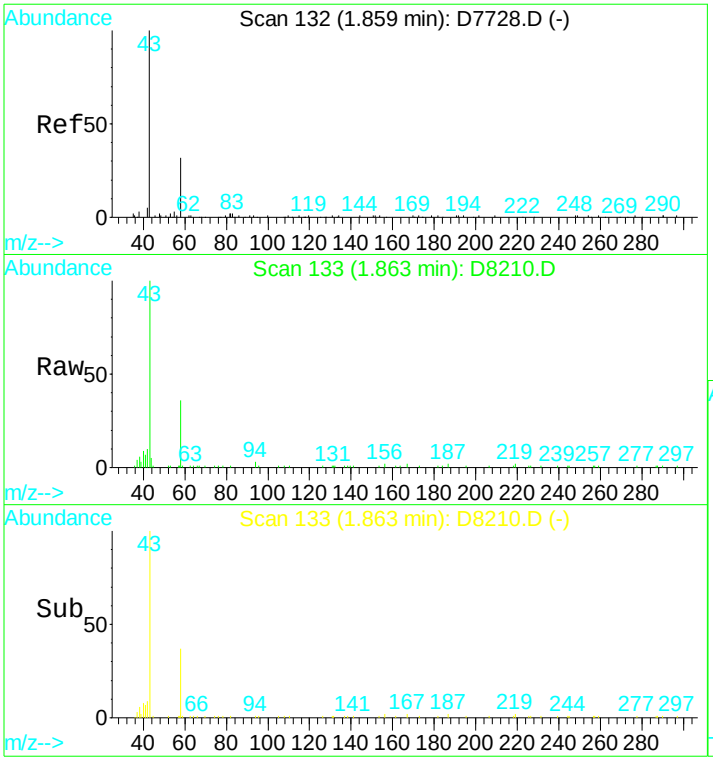
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8210.D Vial: 24
Acq On : 15 Sep 2017 5:54 pm Operator: D.Lipani
Sample : R1708648-001|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:31 2017 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

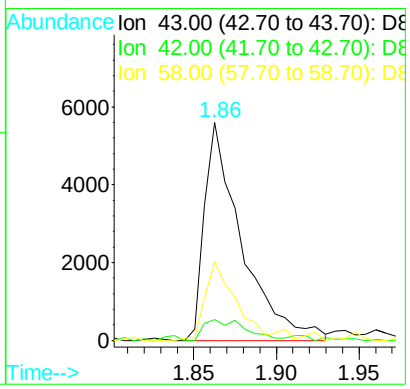


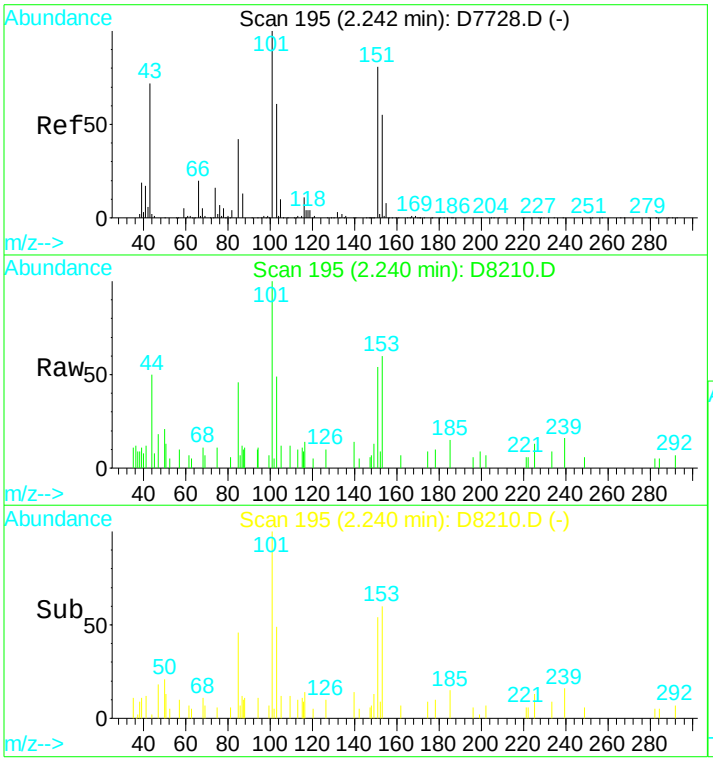


#14
Acetone
Concen: 16.49 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.00 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion: 43 Resp: 8776

Ion	Ratio	Lower	Upper
43	100		
42	9.6	0.0	31.4
58	36.1	3.1	43.1

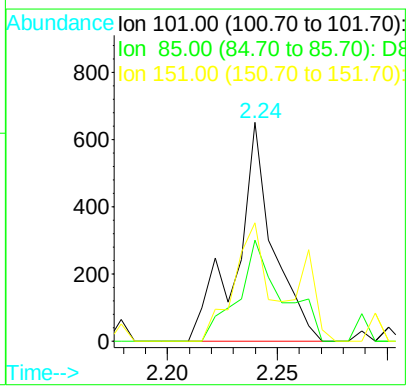


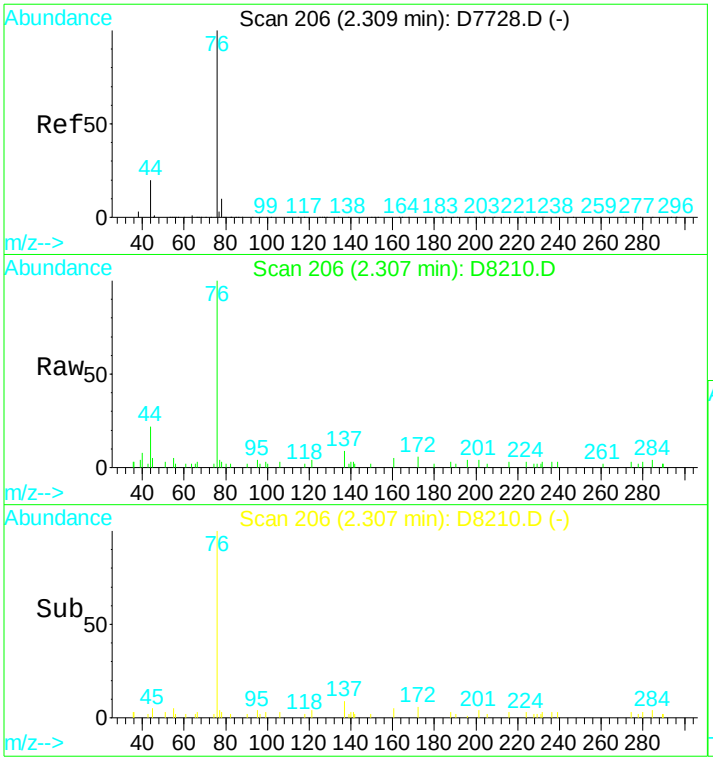


#21
Freon 113
Concen: 0.33 ug/L m
RT: 2.24 min Scan# 195
Delta R.T. -0.00 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion:101 Resp: 749

Ion	Ratio	Lower	Upper
101	100		
85	46.1	25.6	65.6
151	54.2	61.0	101.0#

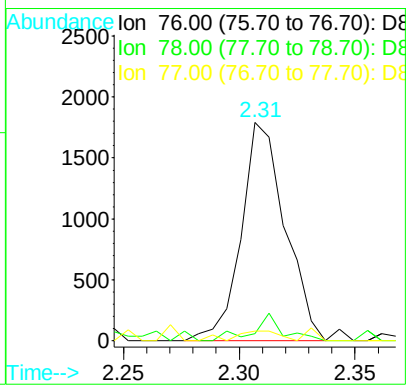


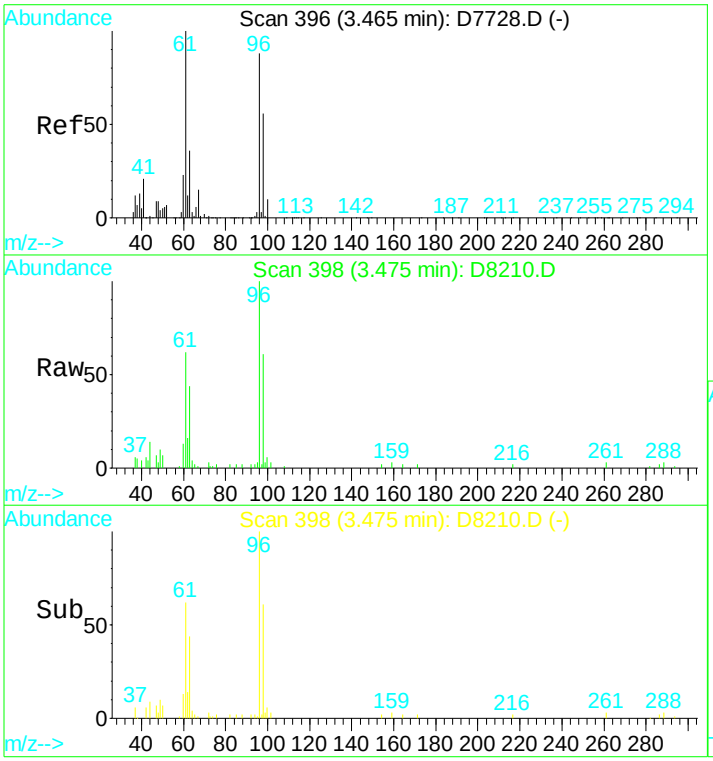


#24
Carbon Disulfide
Concen: 0.39 ug/L
RT: 2.31 min Scan# 206
Delta R.T. -0.00 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion: 76 Resp: 2363

Ion	Ratio	Lower	Upper
76	100		
78	3.1	0.0	30.5
77	4.2	0.0	23.3

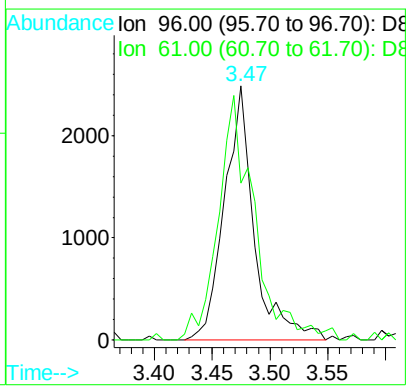


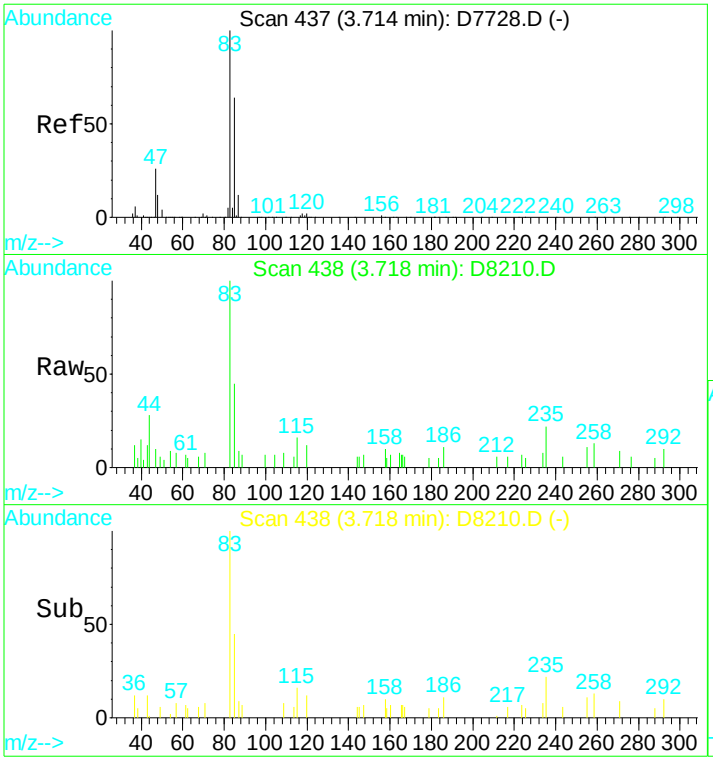


#33
cis-1,2-Dichloroethene
Concen: 2.00 ug/L
RT: 3.47 min Scan# 398
Delta R.T. 0.01 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion: 96 Resp: 4459

Ion	Ratio	Lower	Upper
96	100		
61	61.8	93.6	133.6#

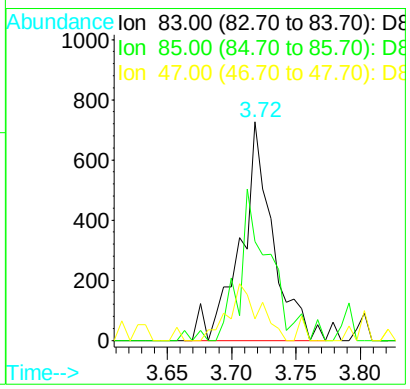


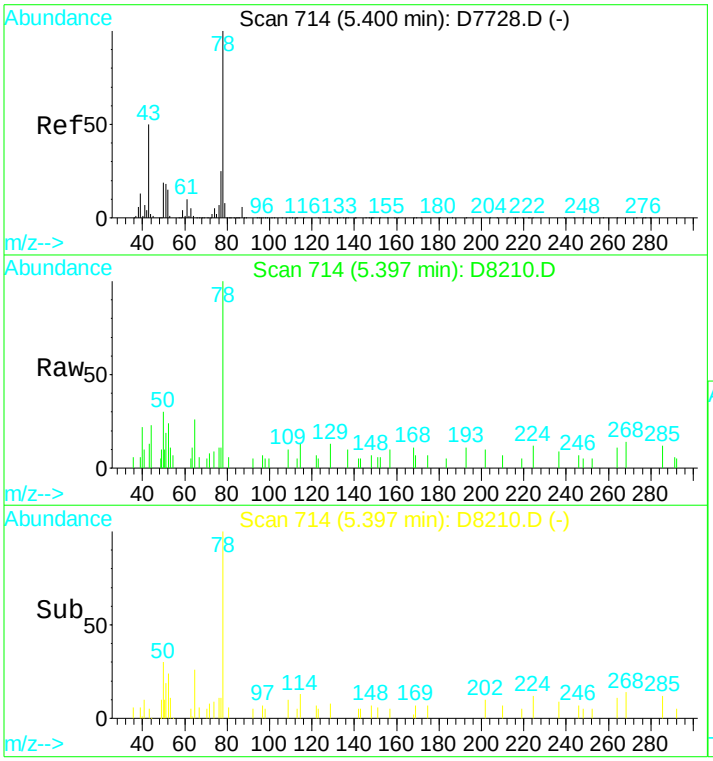


#35
Chloroform
Concen: 0.33 ug/L
RT: 3.72 min Scan# 438
Delta R.T. 0.00 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion: 83 Resp: 1263

Ion	Ratio	Lower	Upper
83	100		
85	45.3	43.9	83.9
47	9.8	8.1	48.1

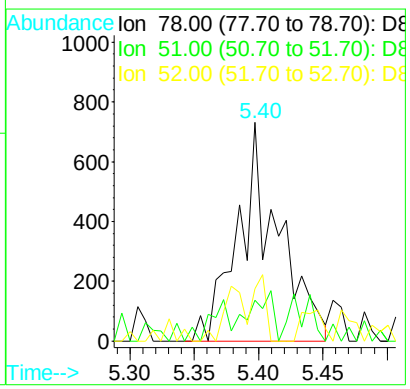


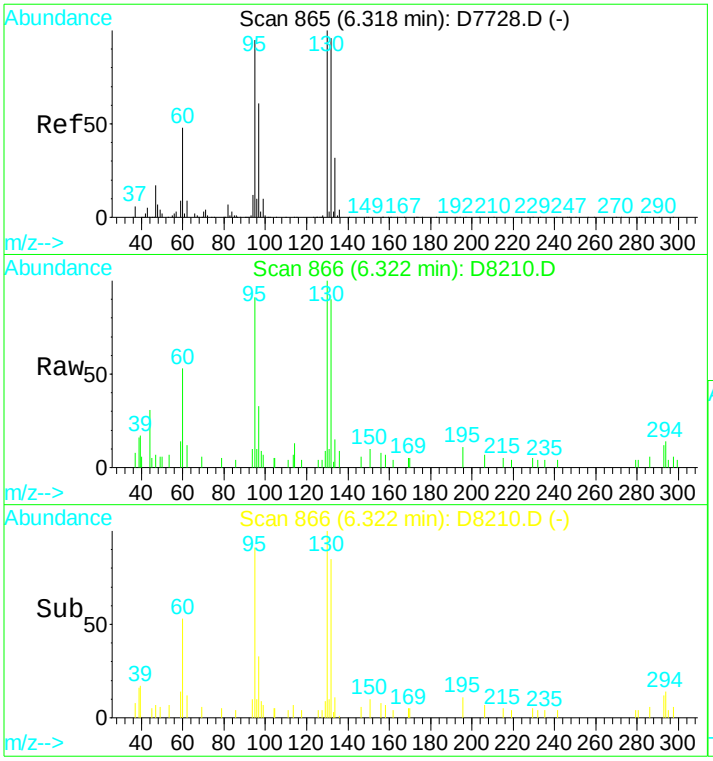


#49
Benzene
Concen: 0.21 ug/L
RT: 5.40 min Scan# 714
Delta R.T. -0.00 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion: 78 Resp: 1580

Ion	Ratio	Lower	Upper
78	100		
51	18.7	0.0	37.8
52	24.1	0.0	35.4

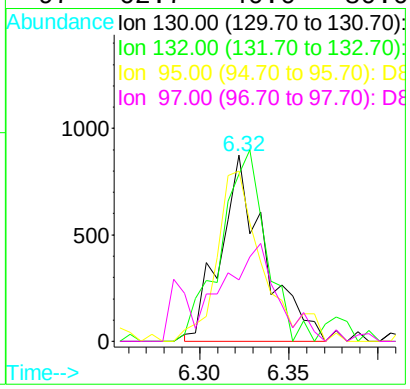


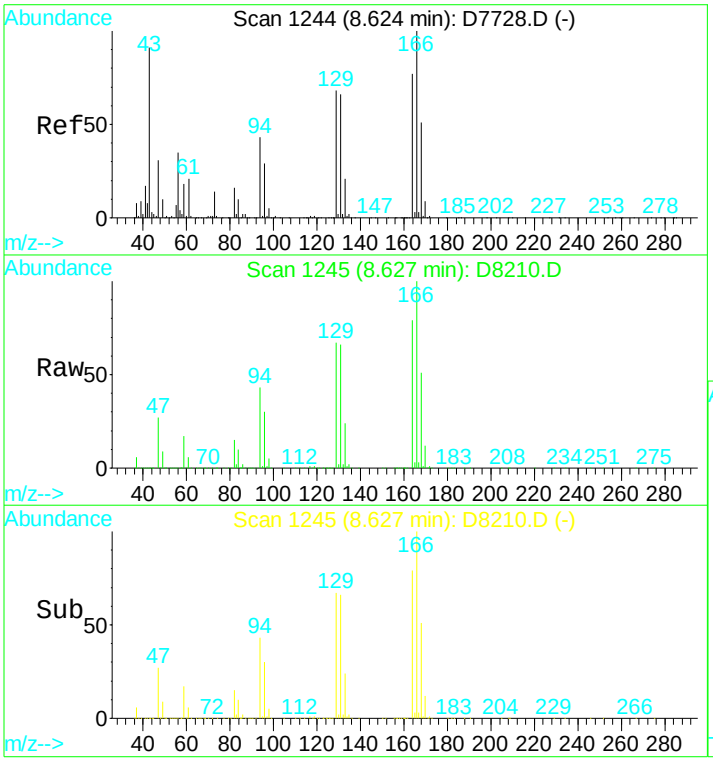


#54
Trichloroethene
Concen: 0.60 ug/L
RT: 6.32 min Scan# 866
Delta R.T. 0.00 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion:130 Resp: 1514

Ion	Ratio	Lower	Upper
130	100		
132	83.6	75.8	115.8
95	87.7	72.3	112.3
97	62.7	40.0	80.0

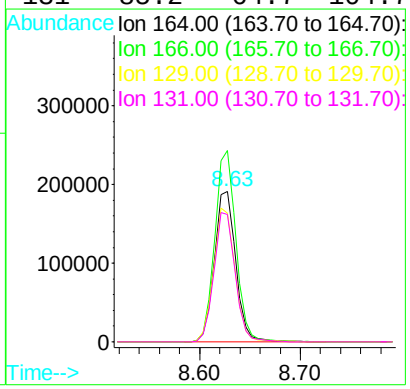




#74
Tetrachloroethene
Concen: 126.24 ug/L
RT: 8.63 min Scan# 1245
Delta R.T. 0.00 min
Lab File: D8210.D
Acq: 15 Sep 2017 5:54 pm

Tgt Ion:164 Resp: 281435

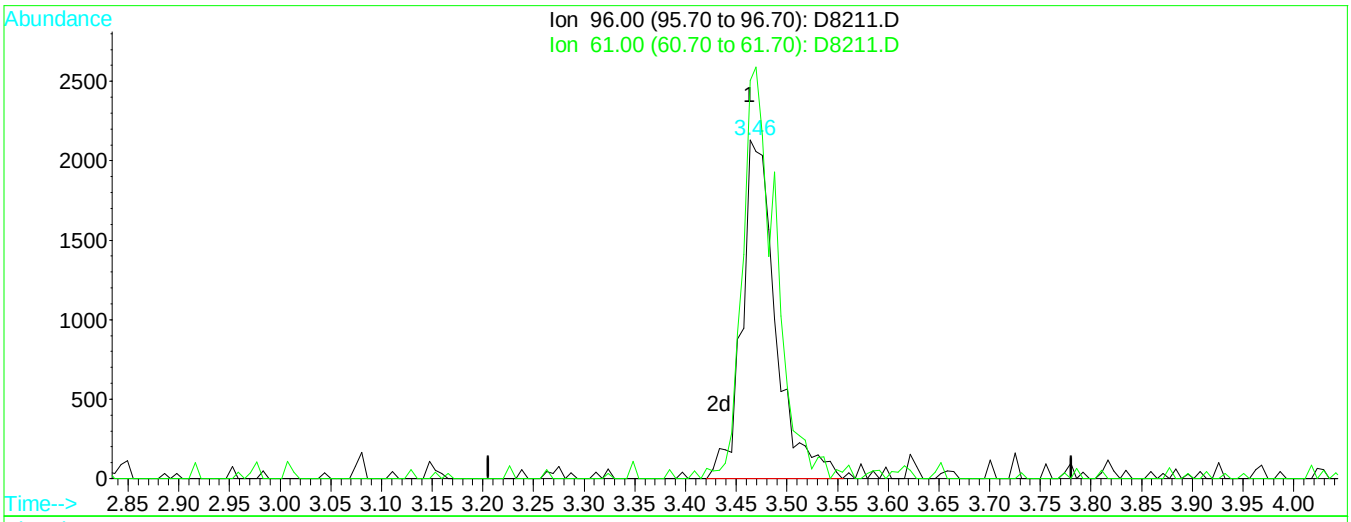
Ion	Ratio	Lower	Upper
164	100		
166	125.6	111.1	151.1
129	88.4	67.3	107.3
131	85.2	64.7	104.7

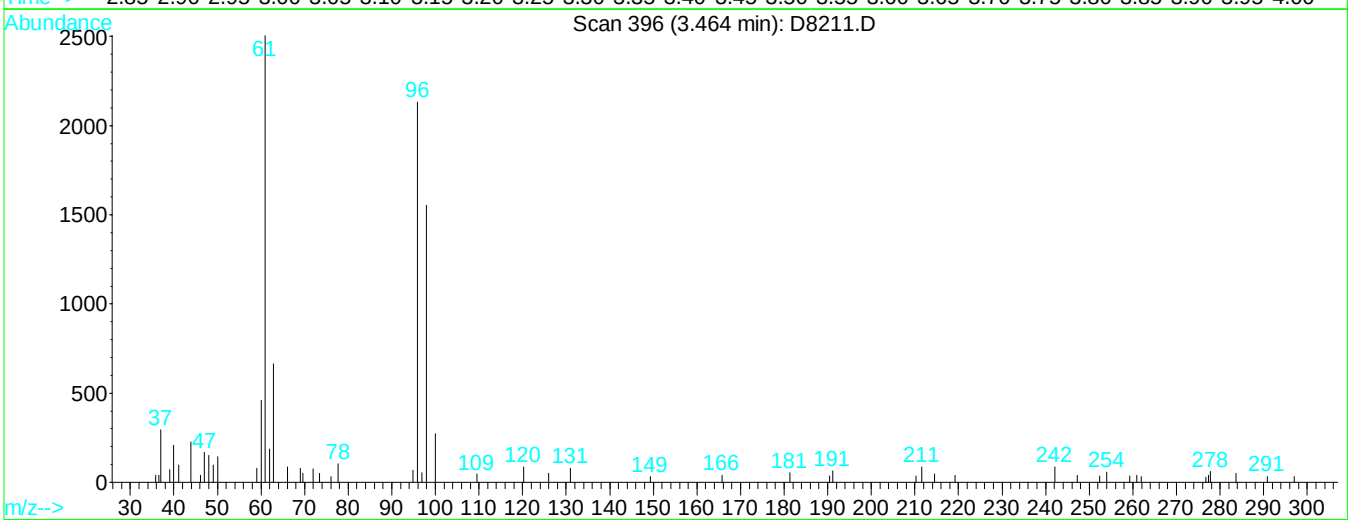


Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D Vial: 25
Acq On : 15 Sep 2017 6:20 pm Operator: D.Lipani
Sample : R1708648-002|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 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: D8211.D

(33) cis-1,2-Dichloroethene (P)

3.46min 2.30ug/L m

response 4922

Ion	Exp%	Act%
96.00	100	100
61.00	113.60	117.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

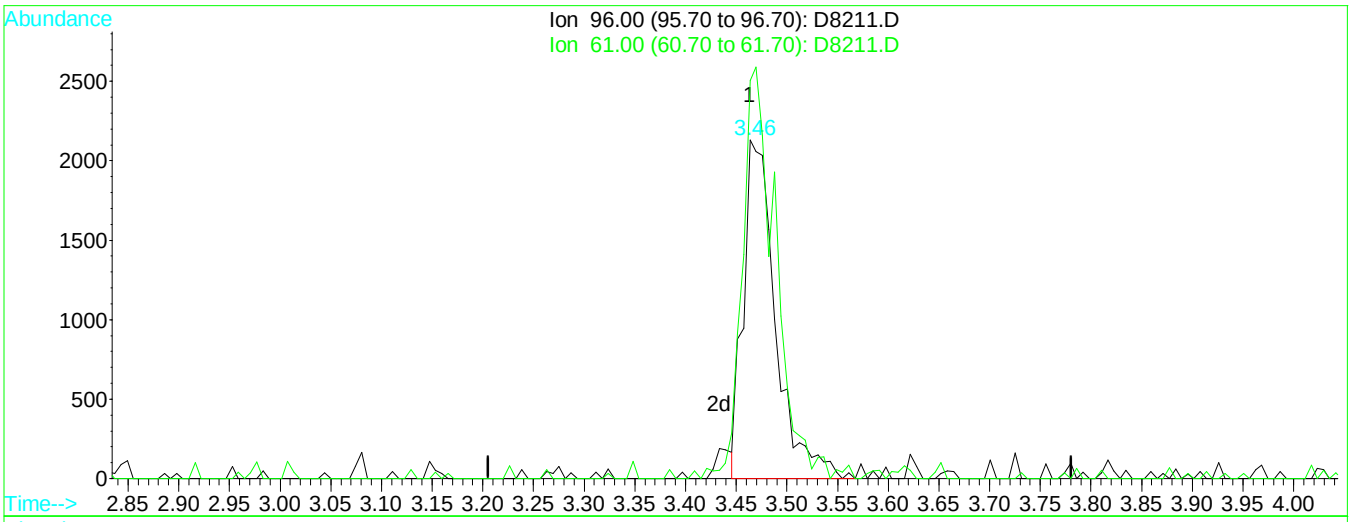
Split Peak.

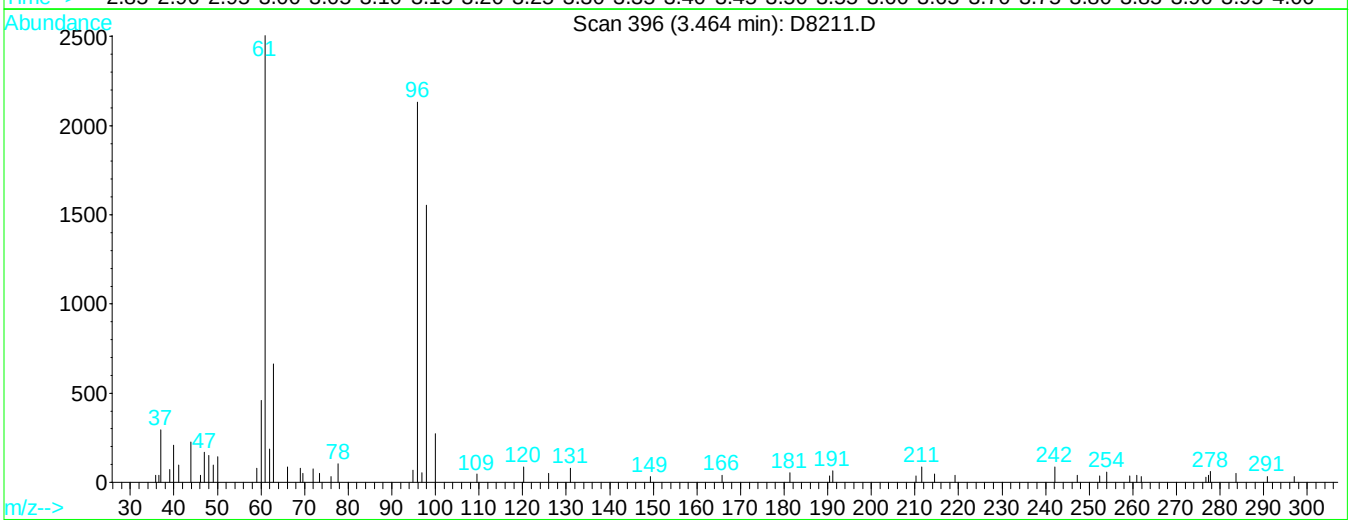
09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D Vial: 25
Acq On : 15 Sep 2017 6:20 pm Operator: D.Lipani
Sample : R1708648-002|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 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: D8211.D

(33) cis-1,2-Dichloroethene (P)

3.46min 2.21ug/L

response 4718

Ion	Exp%	Act%
96.00	100	100
61.00	113.60	117.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

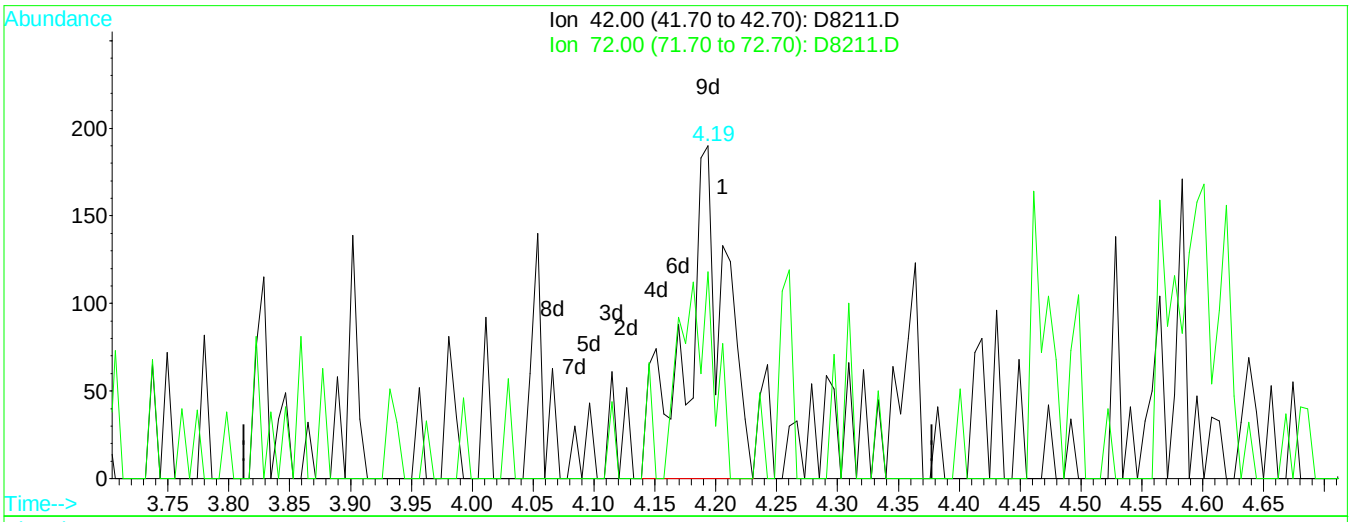
Before

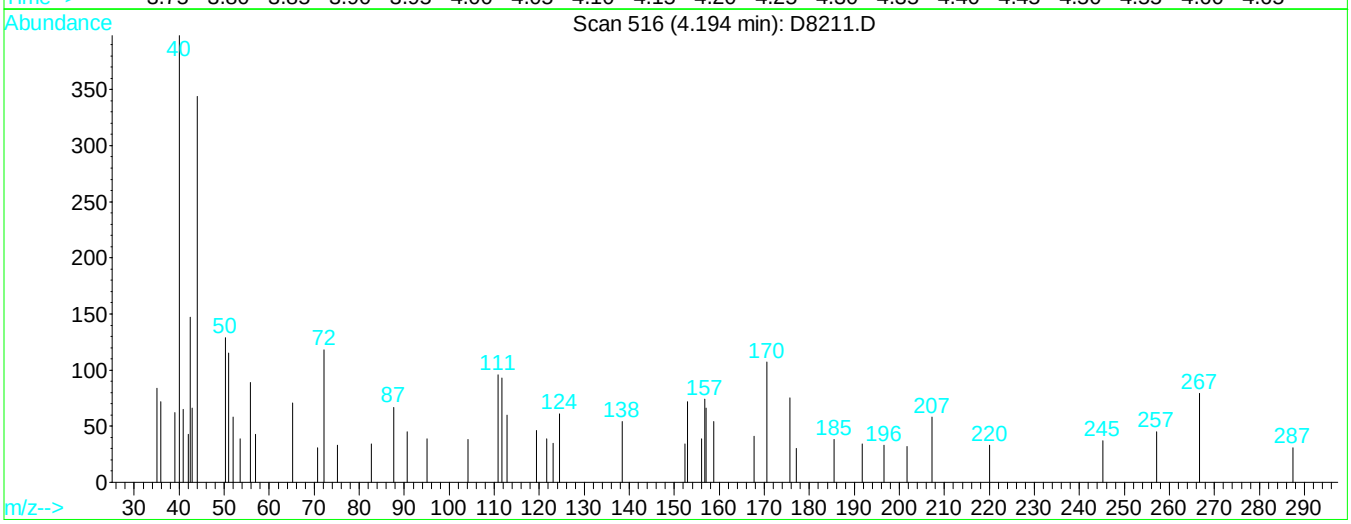
09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D Vial: 25
Acq On : 15 Sep 2017 6:20 pm Operator: D.Lipani
Sample : R1708648-002|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:34 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: D8211.D

(38) Tetrahydrofuran

4.19min 1.04ug/L m

response 429

Ion	Exp%	Act%
42.00	100	100
72.00	40.50	80.27#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

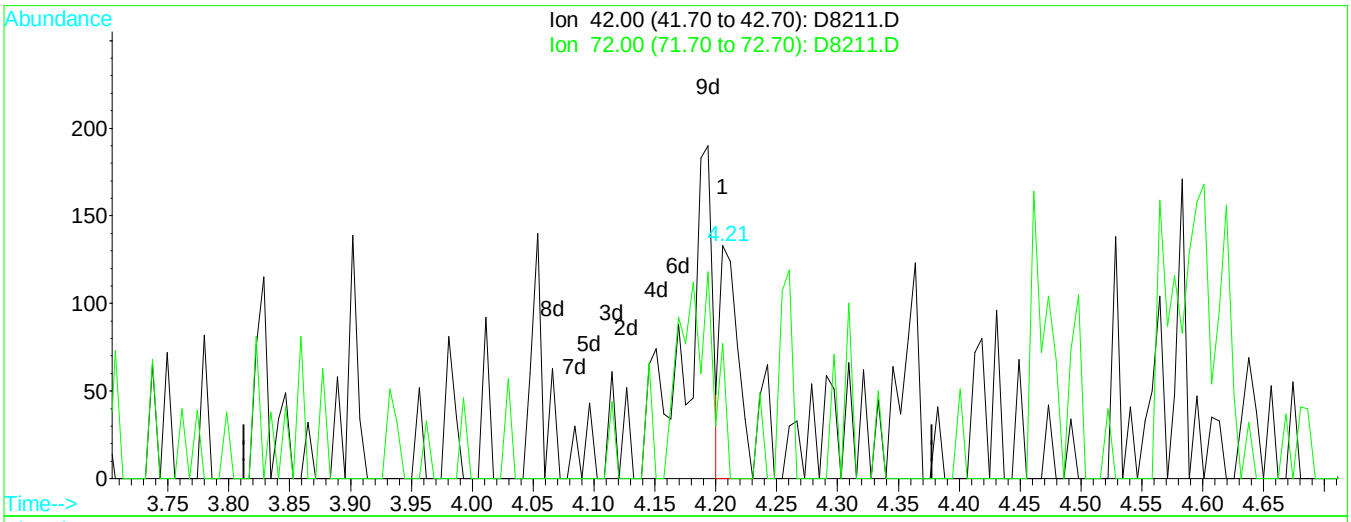
Peak not found.

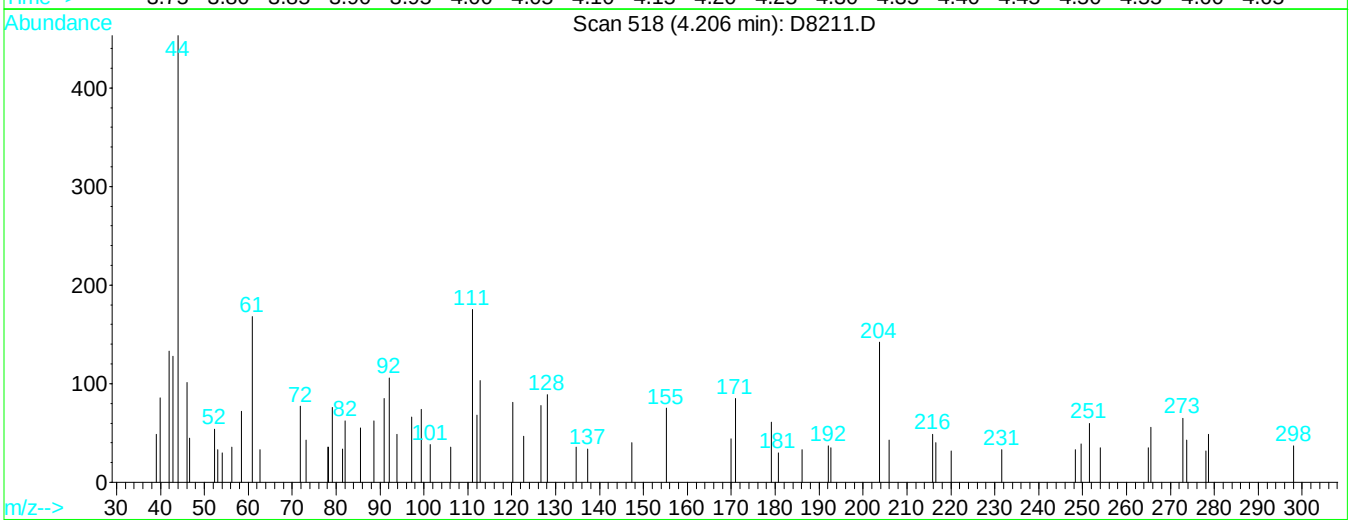
09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D Vial: 25
Acq On : 15 Sep 2017 6:20 pm Operator: D.Lipani
Sample : R1708648-002|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 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 : Single Level Calibration





TIC: D8211.D

(38) Tetrahydrofuran

4.21min 0.33ug/L

response 134

Ion	Exp%	Act%
42.00	100	100
72.00	40.50	57.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8211.D W082417.M Mon Sep 18 13:34:18 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D Vial: 25
Acq On : 15 Sep 2017 6:20 pm Operator: D.Lipani
Sample : R1708648-002|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 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	4.60	168	272804	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	381811	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	183388	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	196229	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	139266	50.86	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.72%			
43) surr1,1,2-dichloroethane-d	4.47	65	145236	48.97	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.94%			
65) SURR3,Toluene-d8	7.89	98	418464	54.13	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.26%			
86) SURR2,BFB	10.25	95	174217	50.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.44%			
Target Compounds						Qvalue
14) Acetone	1.87	43	1767	3.46	ug/L	88
21) Freon 113	2.24	101	722	0.34	ug/L #	27
24) Carbon Disulfide	2.31	76	3125	0.54	ug/L	91
33) cis-1,2-Dichloroethene	3.46	96	4922m	2.30	ug/L	
35) Chloroform	3.73	83	1206	0.33	ug/L	87
38) Tetrahydrofuran	4.19	42	429m	1.04	ug/L	
54) Trichloroethene	6.32	130	5667	2.29	ug/L	97
74) Tetrachloroethene	8.63	164	649477	296.64	ug/L	95 E-Over Calibration

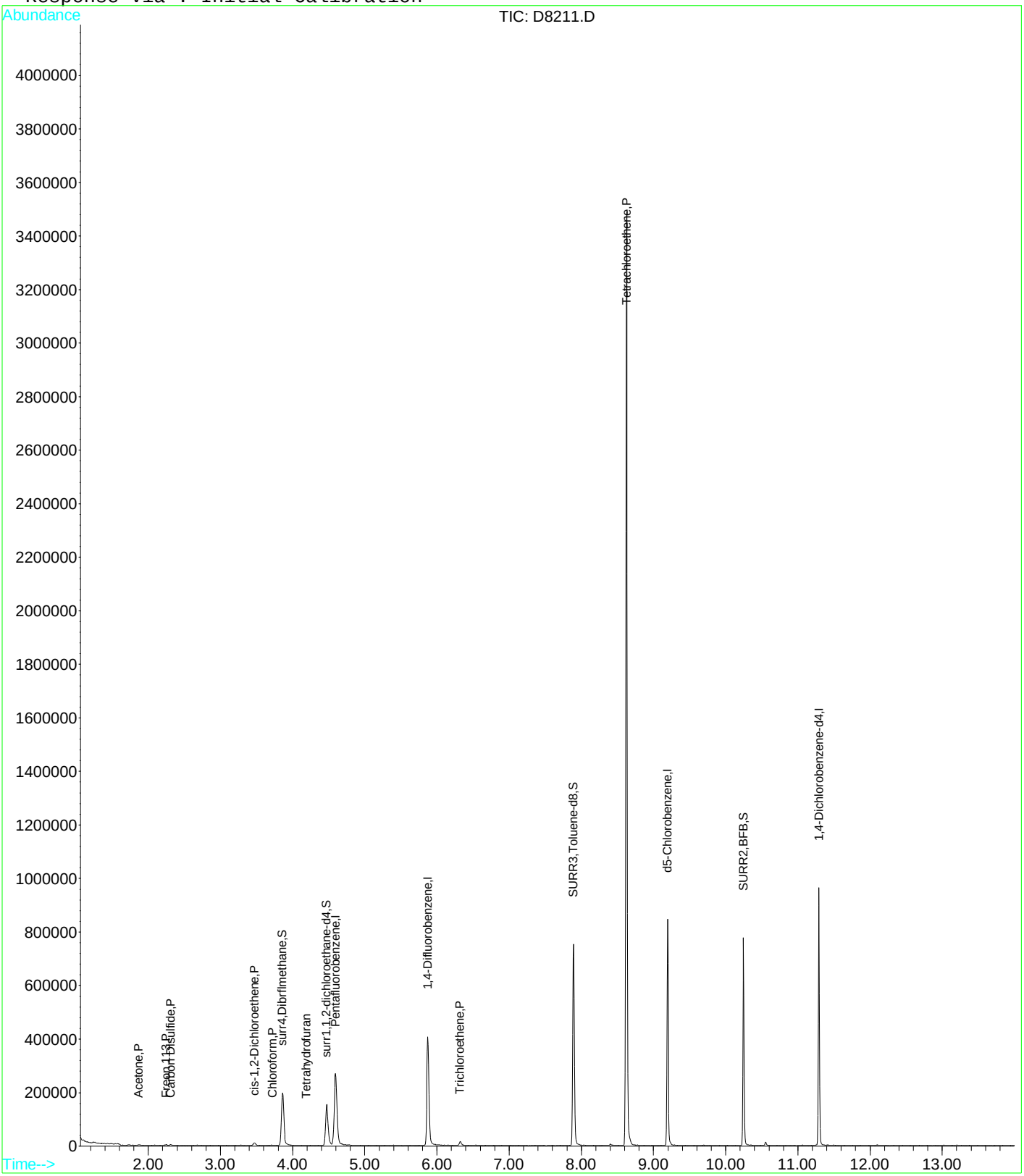
RPT 1 / 2.5

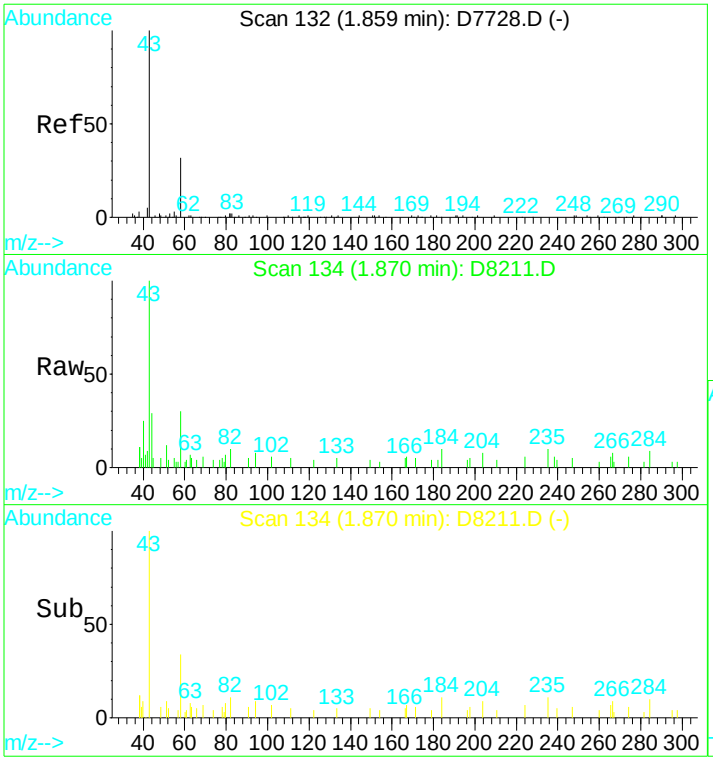
(#) = qualifier out of range (m) = manual integration
D8211.D W082417.M Mon Sep 18 13:36:12 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D Vial: 25
Acq On : 15 Sep 2017 6:20 pm Operator: D.Lipani
Sample : R1708648-002|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:35 2017 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

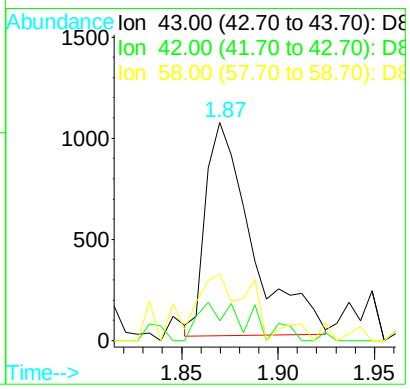


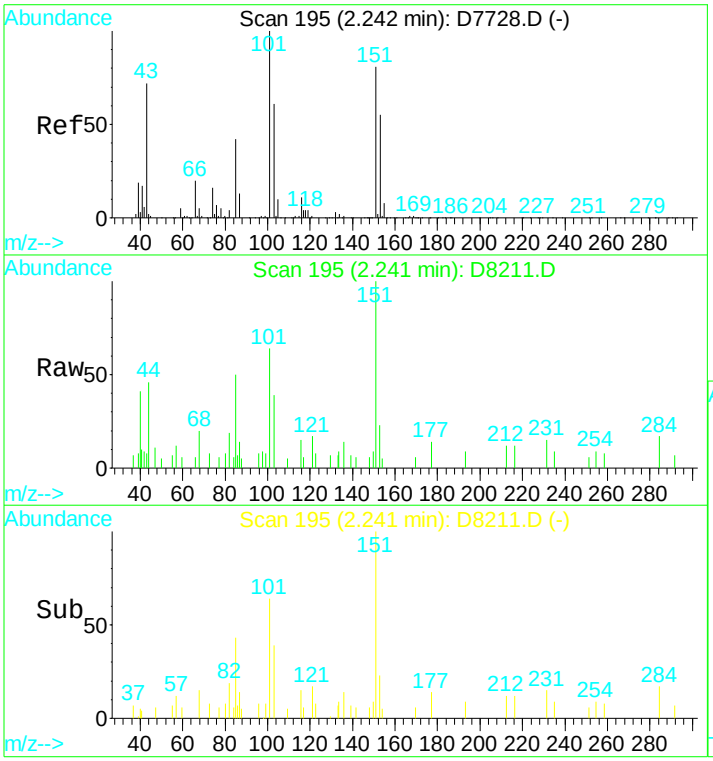


#14
Acetone
Concen: 3.46 ug/L
RT: 1.87 min Scan# 134
Delta R.T. 0.01 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion: 43 Resp: 1767

Ion	Ratio	Lower	Upper
43	100		
42	9.1	0.0	31.4
58	30.5	3.1	43.1

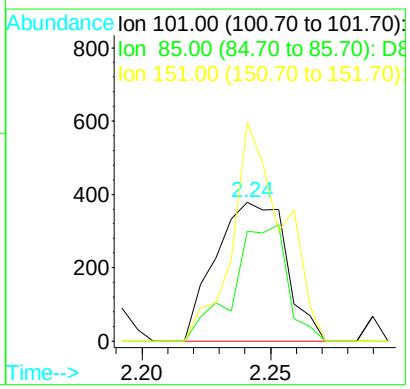


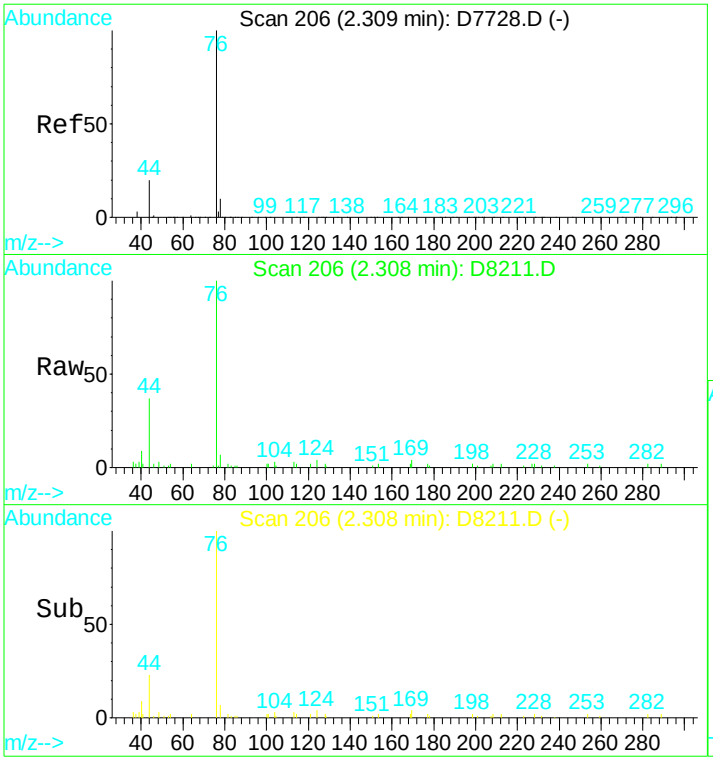


#21
Freon 113
Concen: 0.34 ug/L
RT: 2.24 min Scan# 195
Delta R.T. -0.00 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion:101 Resp: 722

Ion	Ratio	Lower	Upper
101	100		
85	79.2	25.6	65.6#
151	157.3	61.0	101.0#

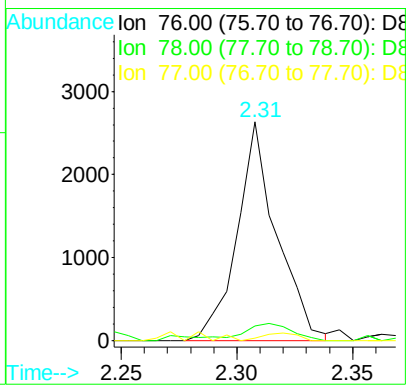


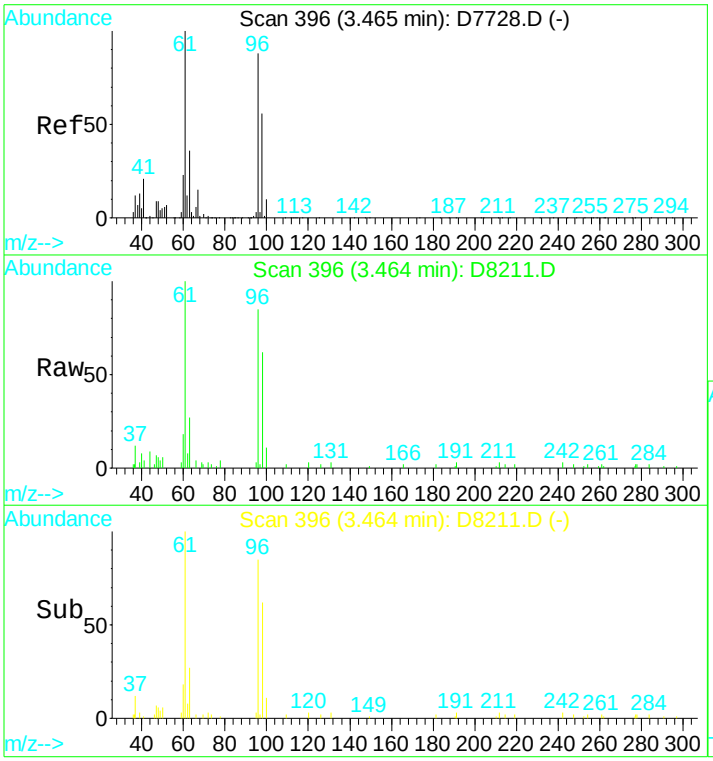


#24
Carbon Disulfide
Concen: 0.54 ug/L
RT: 2.31 min Scan# 206
Delta R.T. -0.00 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion: 76 Resp: 3125

Ion	Ratio	Lower	Upper
76	100		
78	6.7	0.0	30.5
77	1.3	0.0	23.3

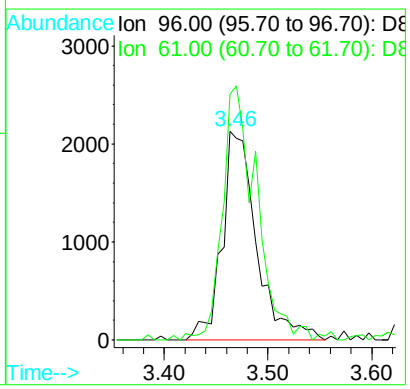


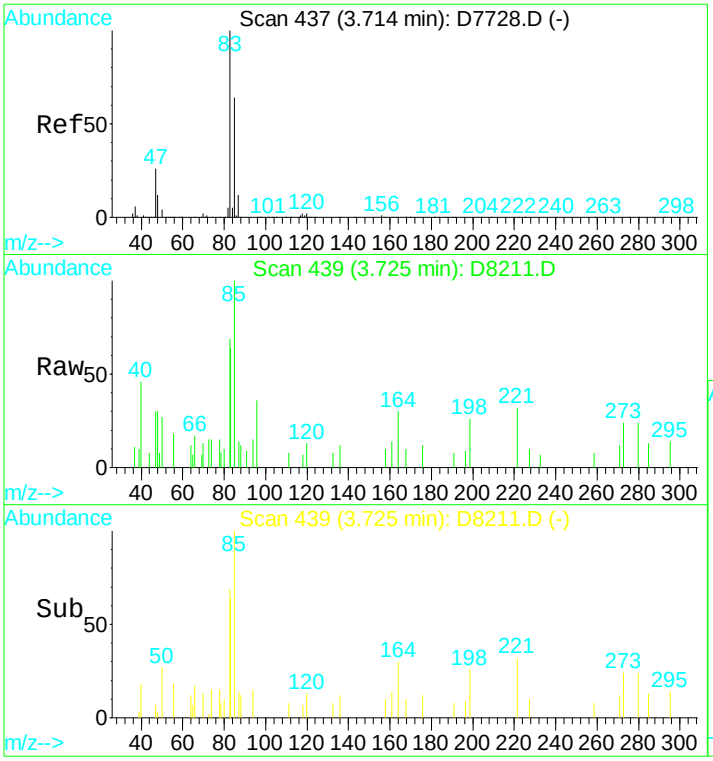


#33
cis-1,2-Dichloroethene
Concen: 2.30 ug/L m
RT: 3.46 min Scan# 396
Delta R.T. -0.00 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion: 96 Resp: 4922

Ion	Ratio	Lower	Upper
96	100		
61	117.5	93.6	133.6

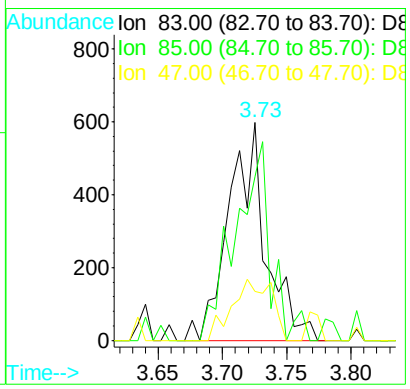


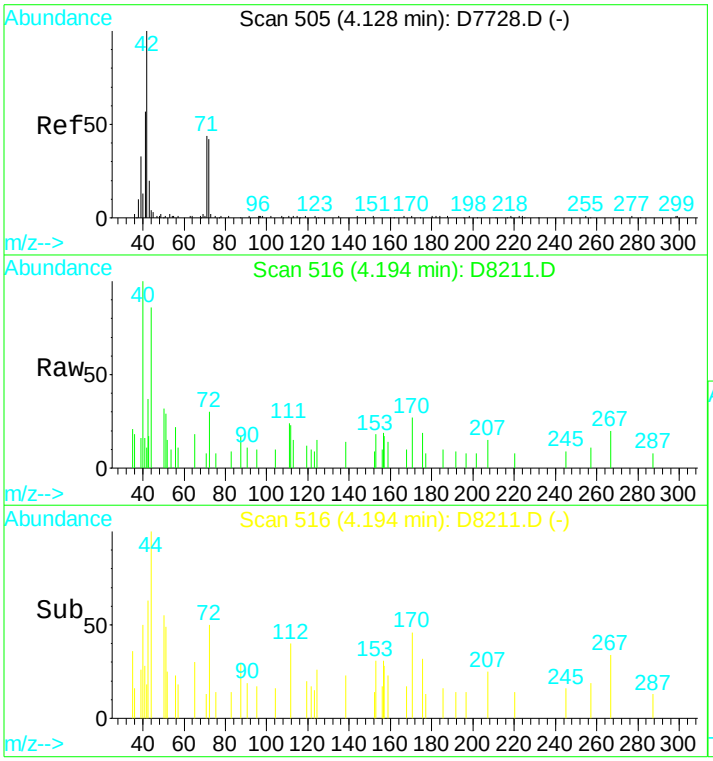


#35
Chloroform
Concen: 0.33 ug/L
RT: 3.73 min Scan# 439
Delta R.T. 0.01 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion: 83 Resp: 1206

Ion	Ratio	Lower	Upper
83	100		
85	75.0	43.9	83.9
47	22.5	8.1	48.1

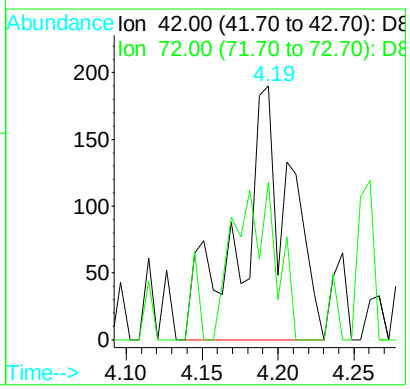




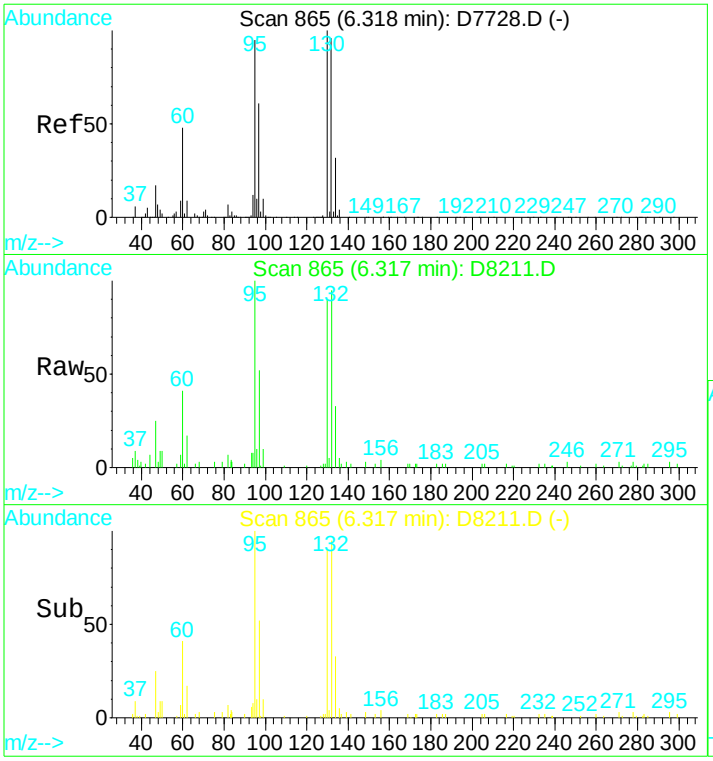
#38
Tetrahydrofuran
Concen: 1.04 ug/L m
RT: 4.19 min Scan# 516
Delta R.T. 0.07 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion: 42 Resp: 429

Ion	Ratio	Lower	Upper
42	100		
72	80.3	20.5	60.5#



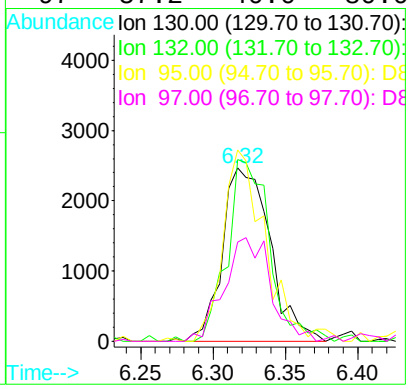
1st DL 09/18/17
2nd BA 09/20/17

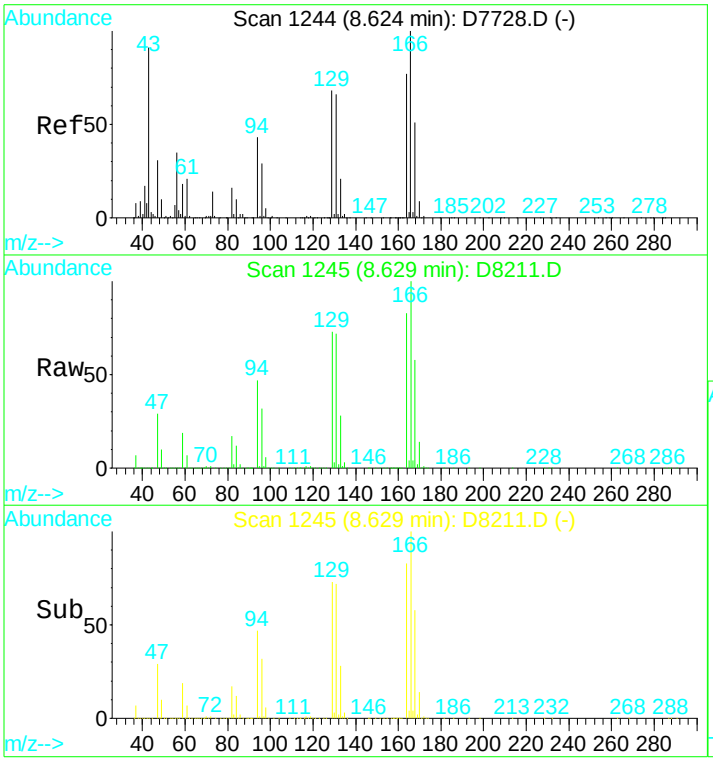


#54
Trichloroethene
Concen: 2.29 ug/L
RT: 6.32 min Scan# 865
Delta R.T. -0.00 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion:130 Resp: 5667

Ion	Ratio	Lower	Upper
130	100		
132	92.7	75.8	115.8
95	94.7	72.3	112.3
97	57.2	40.0	80.0

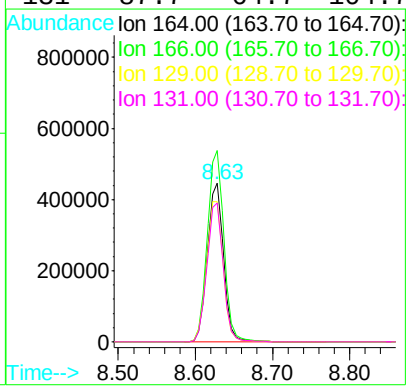




#74
Tetrachloroethene
Concen: 296.64 ug/L
RT: 8.63 min Scan# 1245
Delta R.T. 0.00 min
Lab File: D8211.D
Acq: 15 Sep 2017 6:20 pm

Tgt Ion:164 Resp: 649477

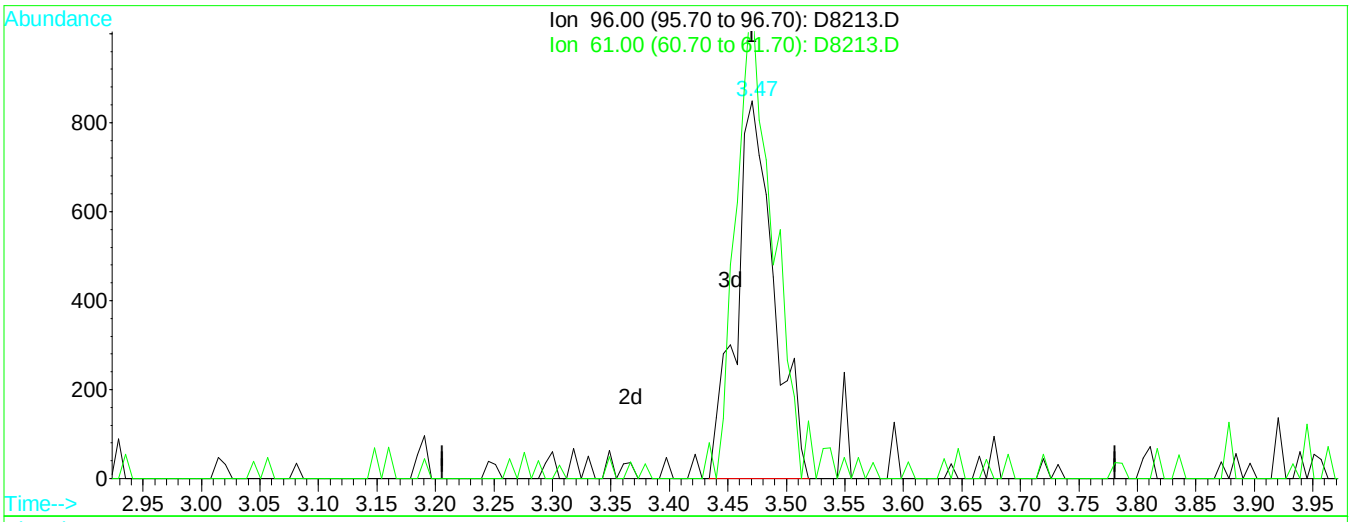
Ion	Ratio	Lower	Upper
164	100		
166	123.0	111.1	151.1
129	90.4	67.3	107.3
131	87.7	64.7	104.7

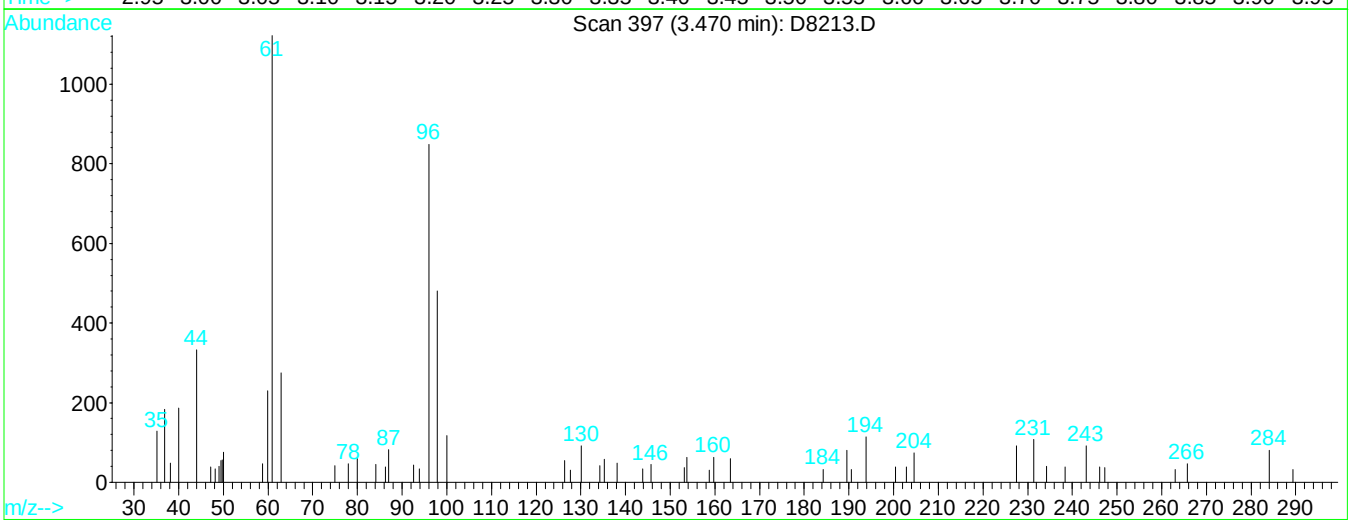


1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8213.D Vial: 27
Acq On : 15 Sep 2017 7:12 pm Operator: D.Lipani
Sample : R1708648-002.R01|2.5 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:40 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 : Multiple Level Calibration





TIC: D8213.D

(33) cis-1,2-Dichloroethene (P)

3.47min 0.87ug/L m

response 1893

Ion	Exp%	Act%
96.00	100	100
61.00	113.60	132.16
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

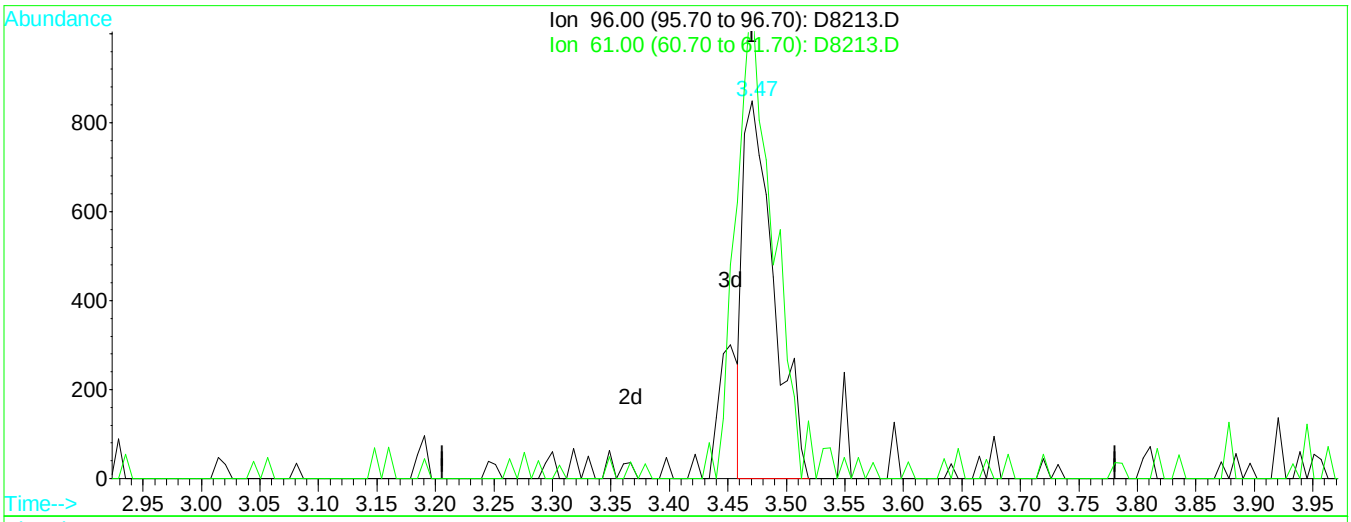
Split Peak.

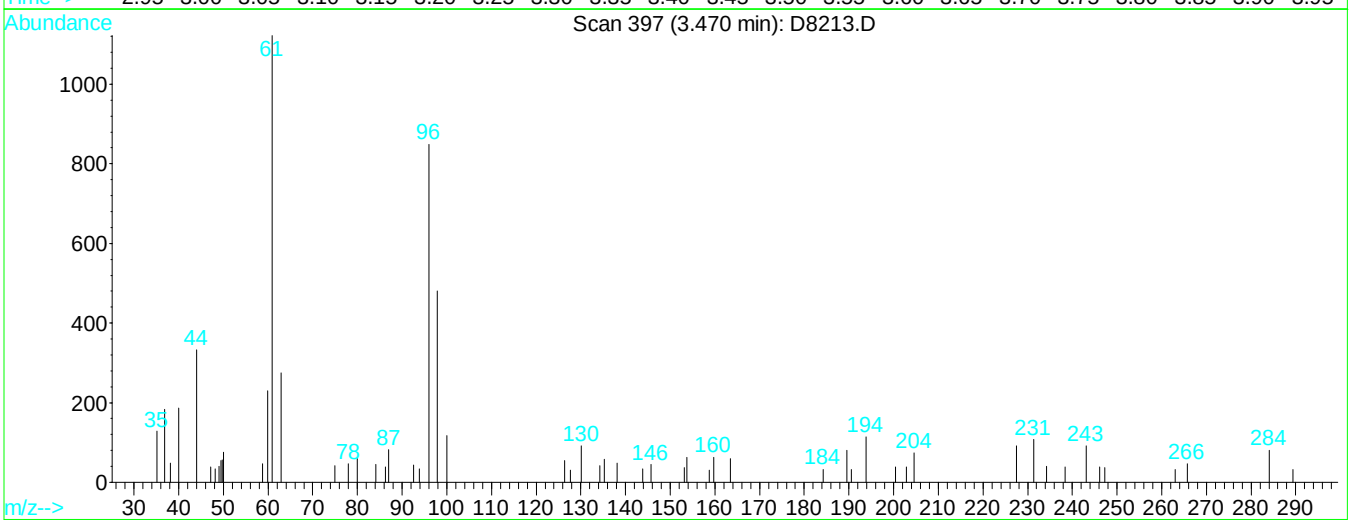
09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8213.D Vial: 27
Acq On : 15 Sep 2017 7:12 pm Operator: D.Lipani
Sample : R1708648-002.R01|2.5 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:40 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 : Multiple Level Calibration





TIC: D8213.D

(33) cis-1,2-Dichloroethene (P)

3.47min 0.71ug/L

response 1537

Ion	Exp%	Act%
96.00	100	100
61.00	113.60	132.16
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8213.D Vial: 27
Acq On : 15 Sep 2017 7:12 pm Operator: D.Lipani
Sample : R1708648-002.R01|2.5 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:42 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	276331	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	383681	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	183352	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	199906	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	140950	51.22	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.44%			
43) surr1,1,2-dichloroethane-d	4.47	65	145477	48.81	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.62%			
65) SURR3,Toluene-d8	7.89	98	430582	55.42	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.84%			
86) SURR2,BFB	10.25	95	170348	49.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.20%			
Target Compounds						Qvalue
14) Acetone	1.87	43	1291	2.50	ug/L	68
24) Carbon Disulfide	2.31	76	4009	0.69	ug/L	86
33) cis-1,2-Dichloroethene	3.47	96	1893m	0.87	ug/L	
54) Trichloroethene	6.32	130	2408	0.97	ug/L #	77
74) Tetrachloroethene	8.62	164	248046	113.31	ug/L	99

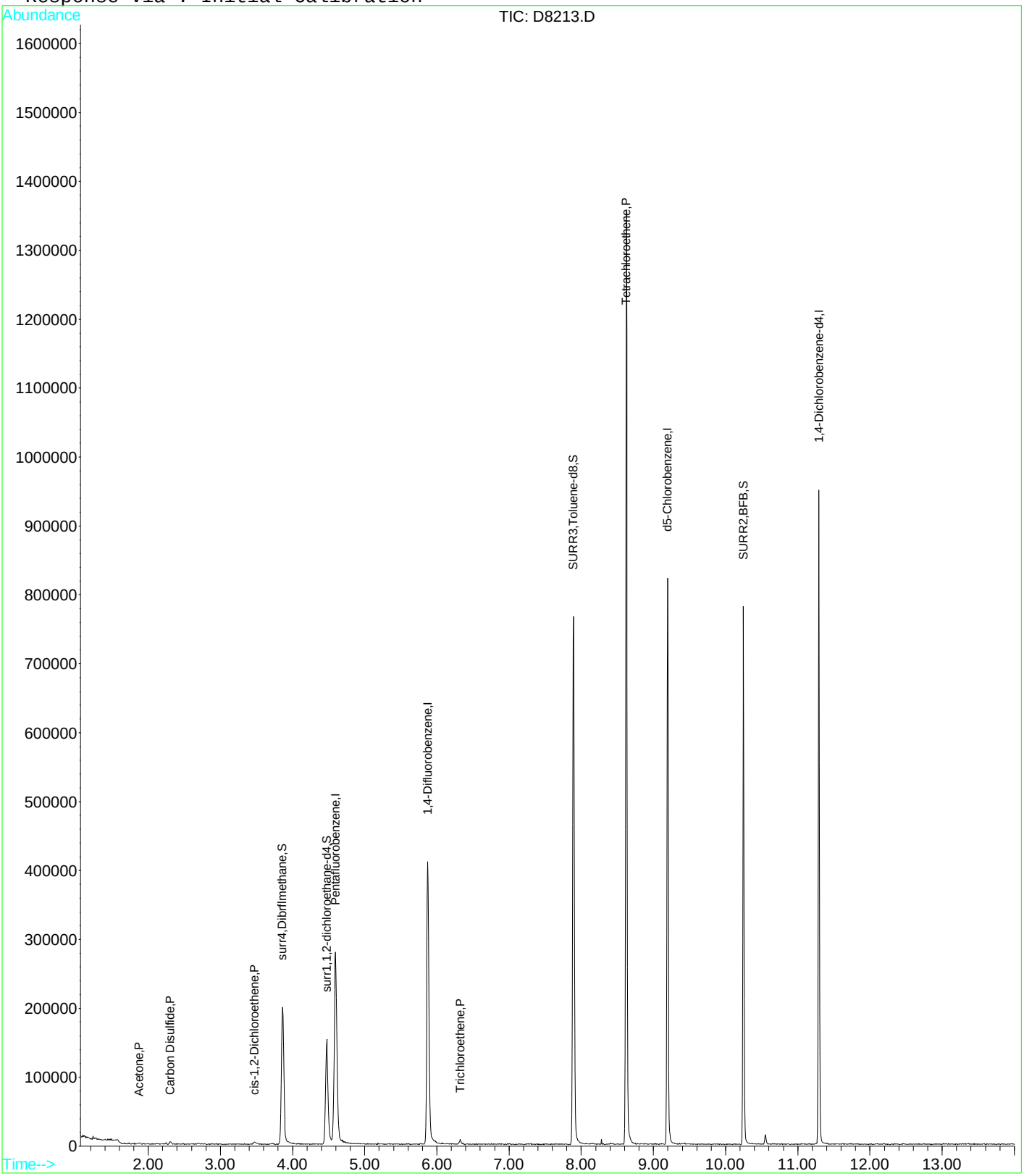
DL

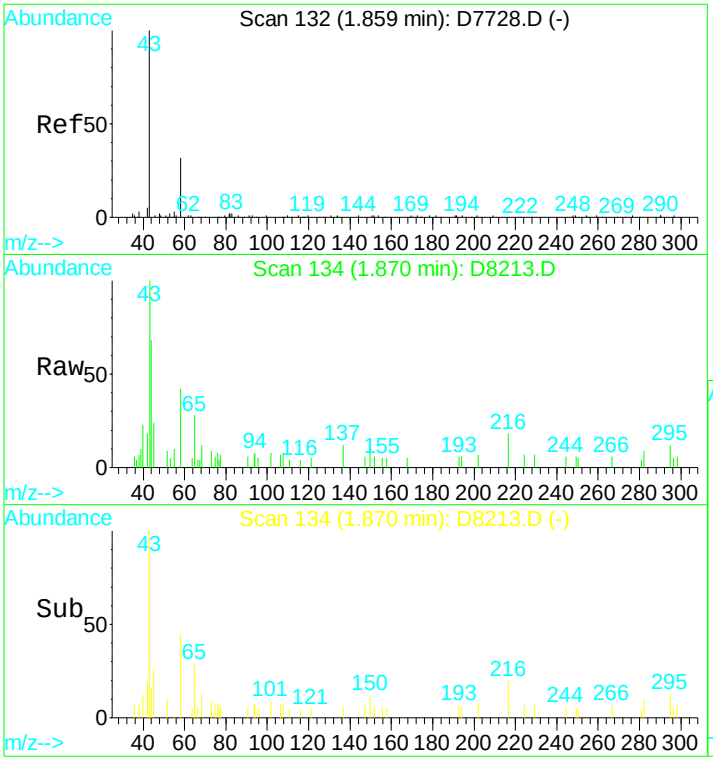
(#) = qualifier out of range (m) = manual integration
D8213.D W082417.M Mon Sep 18 13:42:34 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8213.D Vial: 27
Acq On : 15 Sep 2017 7:12 pm Operator: D.Lipani
Sample : R1708648-002.R01|2.5 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:42 2017 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

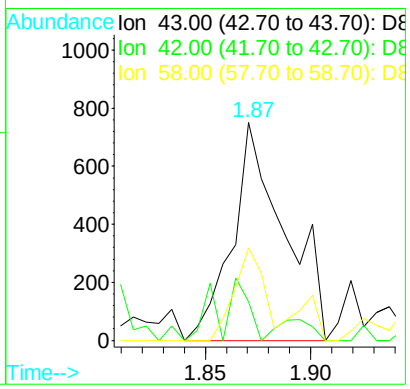


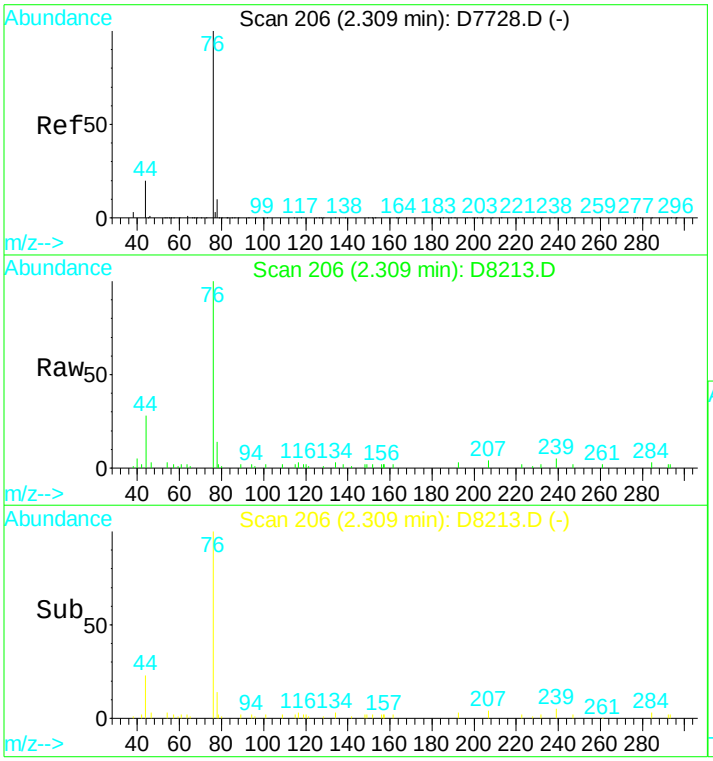


#14
Acetone
Concen: 2.50 ug/L
RT: 1.87 min Scan# 134
Delta R.T. 0.01 min
Lab File: D8213.D
Acq: 15 Sep 2017 7:12 pm

Tgt Ion: 43 Resp: 1291

Ion	Ratio	Lower	Upper
43	100		
42	17.8	0.0	31.4
58	42.4	3.1	43.1

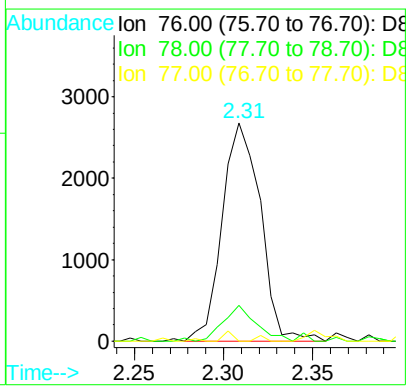


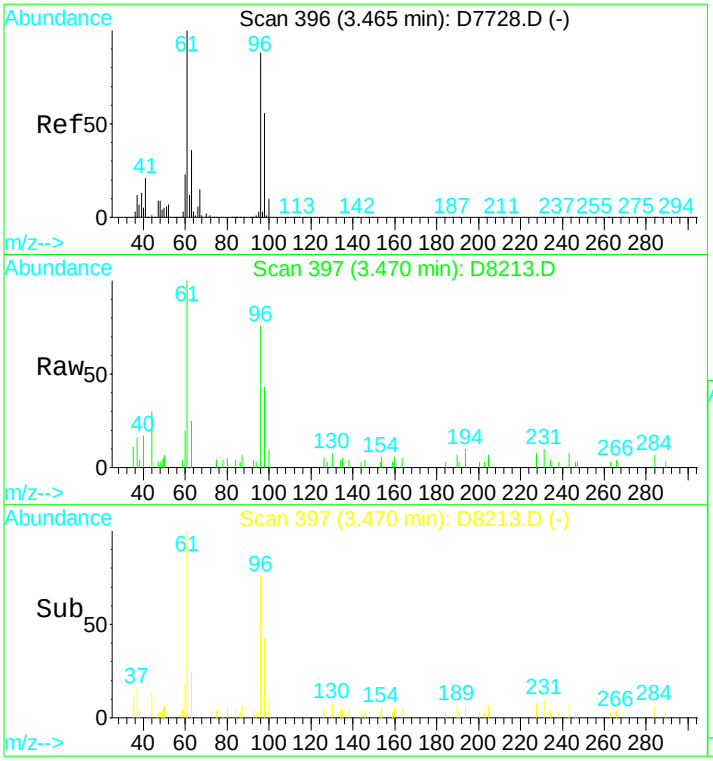


#24
Carbon Disulfide
Concen: 0.69 ug/L
RT: 2.31 min Scan# 206
Delta R.T. -0.00 min
Lab File: D8213.D
Acq: 15 Sep 2017 7:12 pm

Tgt Ion: 76 Resp: 4009

Ion	Ratio	Lower	Upper
76	100		
78	16.3	0.0	30.5
77	0.0	0.0	23.3

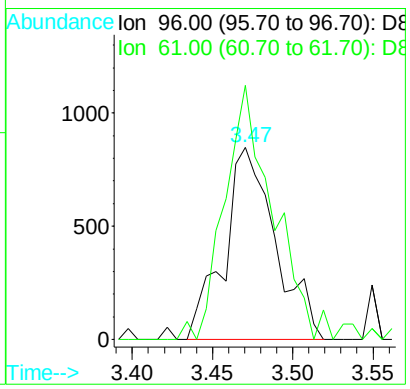


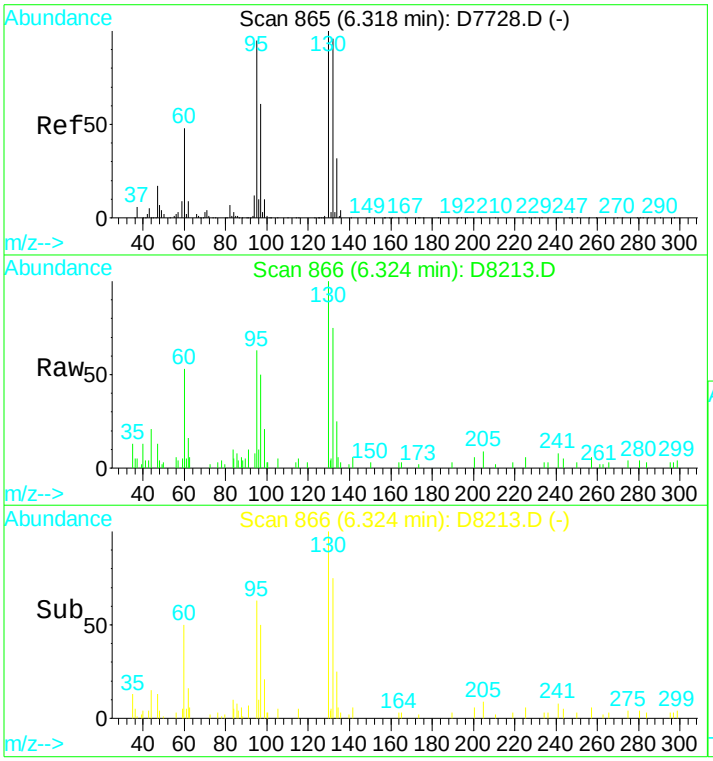


#33
cis-1,2-Dichloroethene
Concen: 0.87 ug/L m
RT: 3.47 min Scan# 397
Delta R.T. 0.01 min
Lab File: D8213.D
Acq: 15 Sep 2017 7:12 pm

Tgt Ion: 96 Resp: 1893

Ion	Ratio	Lower	Upper
96	100		
61	132.2	93.6	133.6

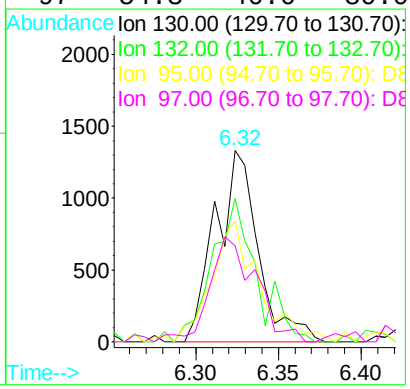




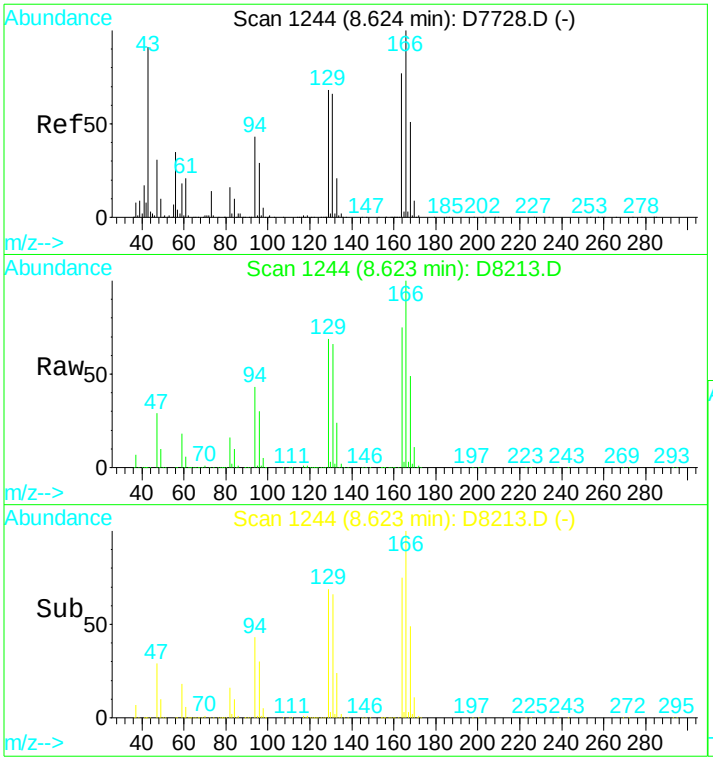
#54
Trichloroethene
Concen: 0.97 ug/L
RT: 6.32 min Scan# 866
Delta R.T. 0.01 min
Lab File: D8213.D
Acq: 15 Sep 2017 7:12 pm

Tgt Ion:130 Resp: 2408

Ion	Ratio	Lower	Upper
130	100		
132	66.2	75.8	115.8#
95	69.3	72.3	112.3#
97	54.3	40.0	80.0



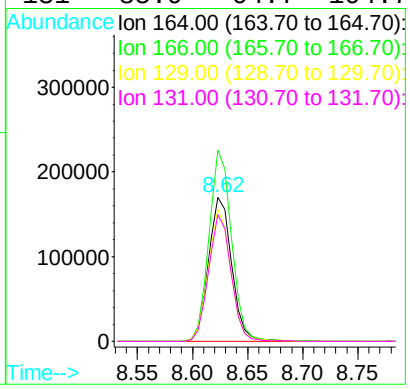
1st DL 09/18/17
2nd BA 09/20/17



#74
Tetrachloroethene
Concen: 113.31 ug/L
RT: 8.62 min Scan# 1244
Delta R.T. -0.00 min
Lab File: D8213.D
Acq: 15 Sep 2017 7:12 pm

Tgt Ion:164 Resp: 248046

Ion	Ratio	Lower	Upper
164	100		
166	129.9	111.1	151.1
129	89.0	67.3	107.3
131	85.9	64.7	104.7



1st DL 09/18/17
2nd BA 09/20/17

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8195.D Vial: 9
Acq On : 15 Sep 2017 11:23 am Operator: D.Lipani
Sample : R1708648-003|10 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:14 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	287765	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	398801	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	187664	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	205462	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	143685	50.23	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.46%			
43) surr1,1,2-dichloroethane-d	4.47	65	145523	46.97	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 93.94%			
65) SURR3,Toluene-d8	7.89	98	439802	54.46	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.92%			
86) SURR2,BFB	10.25	95	183217	52.13	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.26%			
Target Compounds						Qvalue
5) Bromomethane	1.44	94	1169	0.55	ug/L #	20
14) Acetone	1.86	43	2121	3.94	ug/L	93
17) Iodomethane	2.11	142	693	0.22	ug/L	85
18) TBA	2.14	59	699	3.79	ug/L	91
35) Chloroform	3.72	83	803	0.21	ug/L	84
105) 1,2,4-Tcbenzene	13.01	180	894	0.25	ug/L #	77
106) Naphthalen	13.20	128	2093	0.31	ug/L	96
107) Hexachlorobt	13.29	225	466	0.27	ug/L #	83
108) 1,2,3-Tclbenzene	13.35	180	1078	0.35	ug/L	90

foamy sample

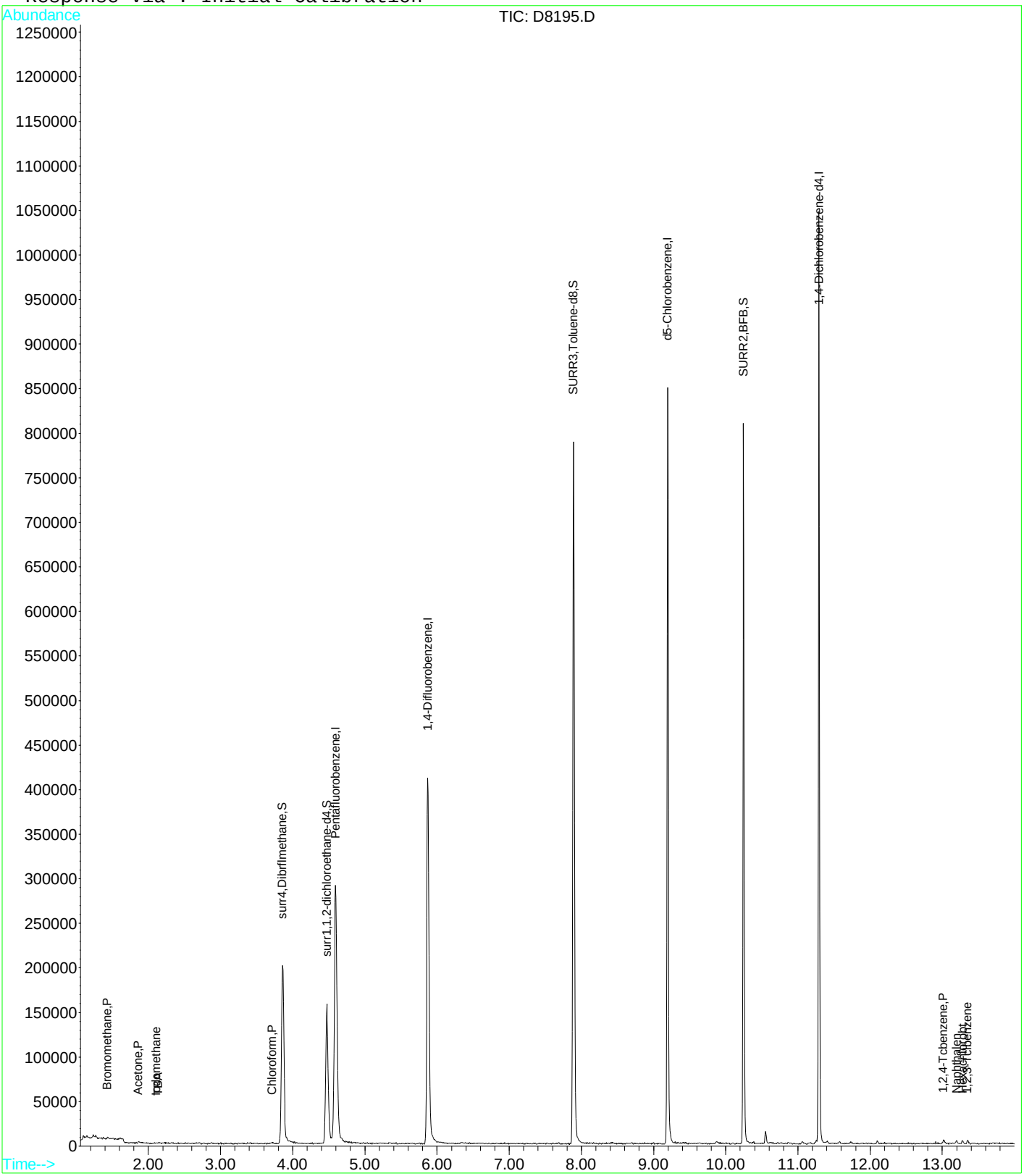
Diluted due to dark purple matrix!

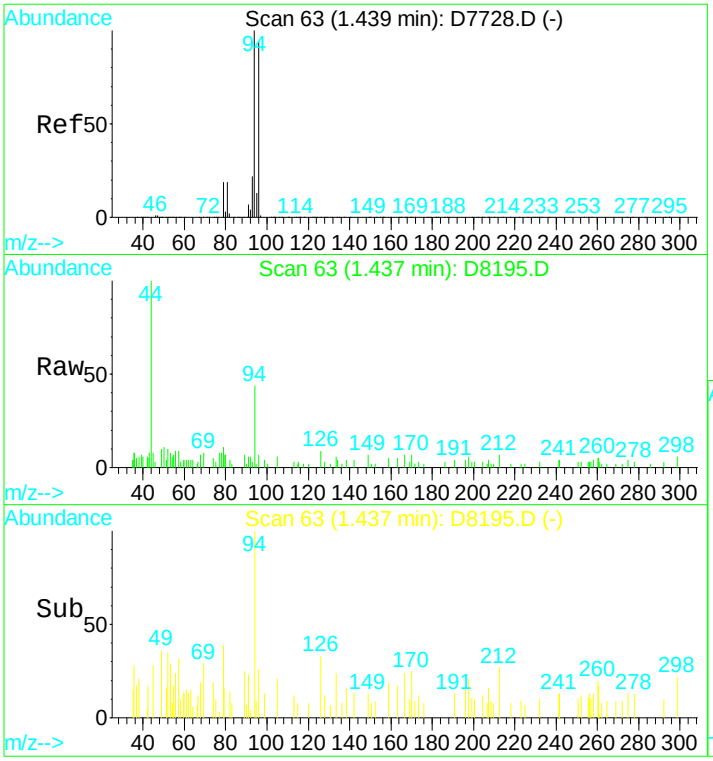
(#) = qualifier out of range (m) = manual integration
D8195.D W082417.M Mon Sep 18 09:15:08 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8195.D Vial: 9
Acq On : 15 Sep 2017 11:23 am Operator: D.Lipani
Sample : R1708648-003|10 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:14 2017 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

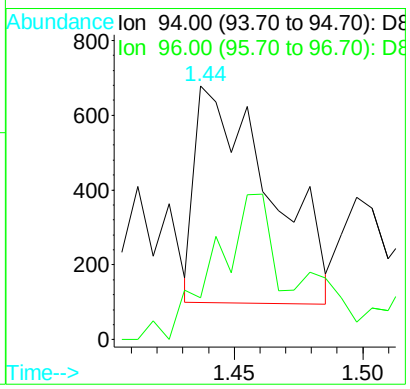


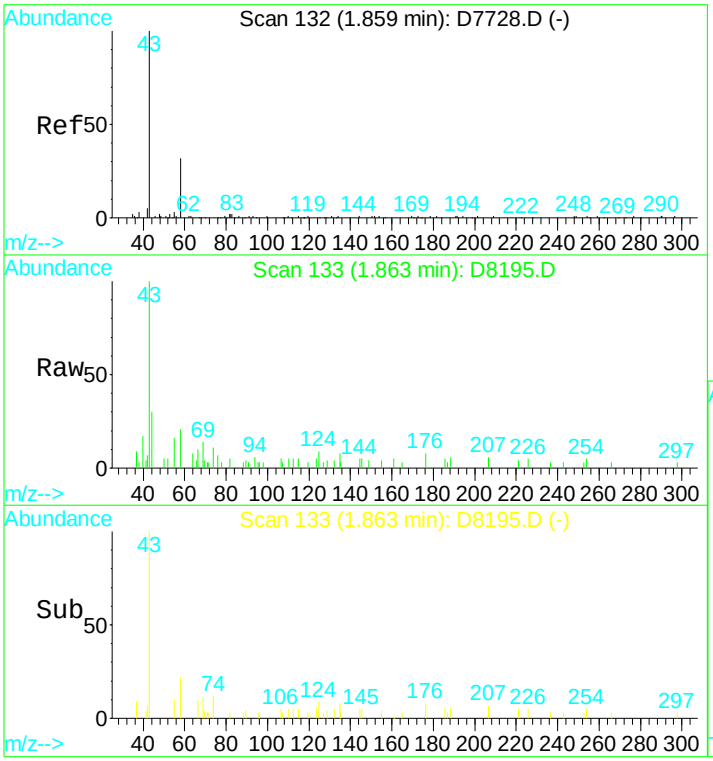


#5
Bromomethane
Concen: 0.55 ug/L
RT: 1.44 min Scan# 63
Delta R.T. -0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion: 94 Resp: 1169

Ion	Ratio	Lower	Upper
94	100		
96	16.3	73.7	113.7#

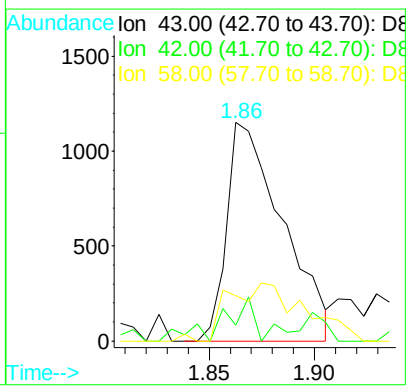


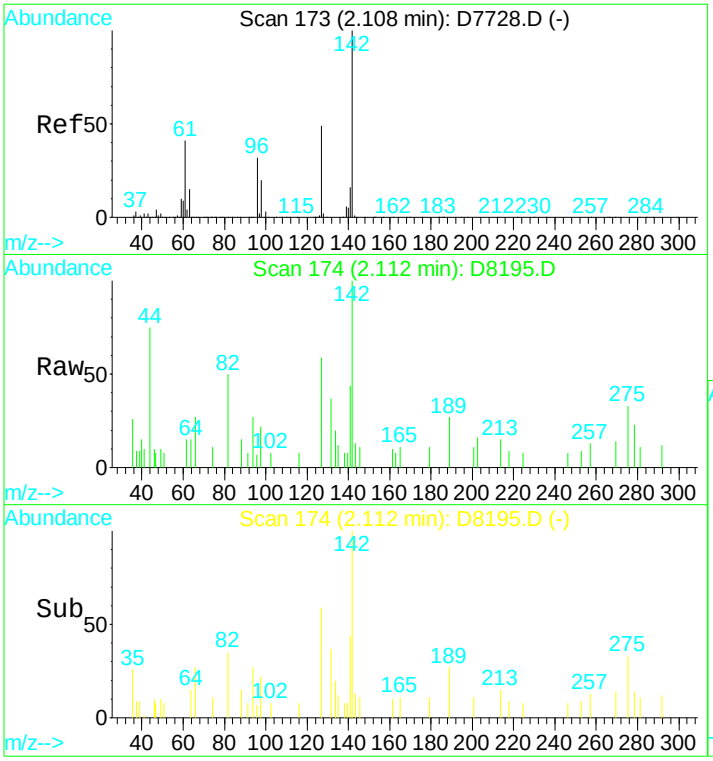


#14
Acetone
Concen: 3.94 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion: 43 Resp: 2121

Ion	Ratio	Lower	Upper
43	100		
42	7.1	0.0	31.4
58	20.6	3.1	43.1

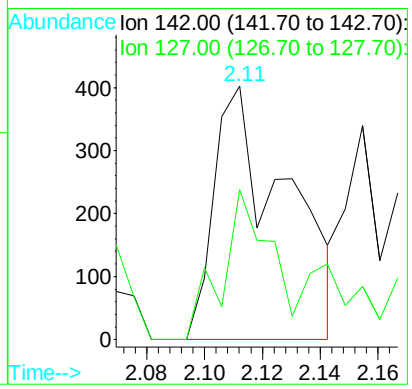


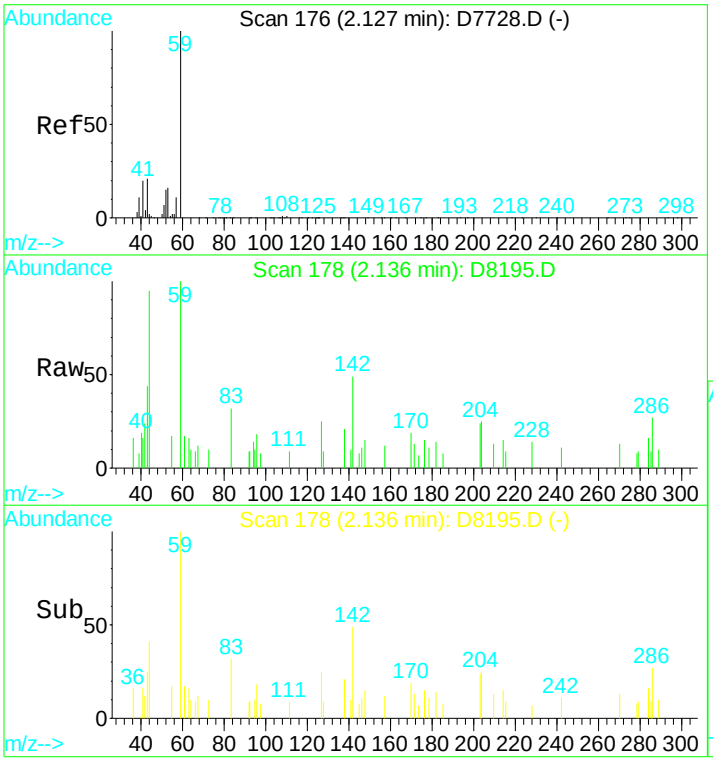


#17
Iodomethane
Concen: 0.22 ug/L
RT: 2.11 min Scan# 174
Delta R.T. 0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion:142 Resp: 693

Ion	Ratio	Lower	Upper
142	100		
127	59.1	28.6	68.6

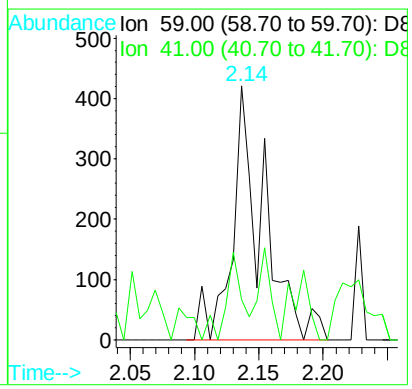


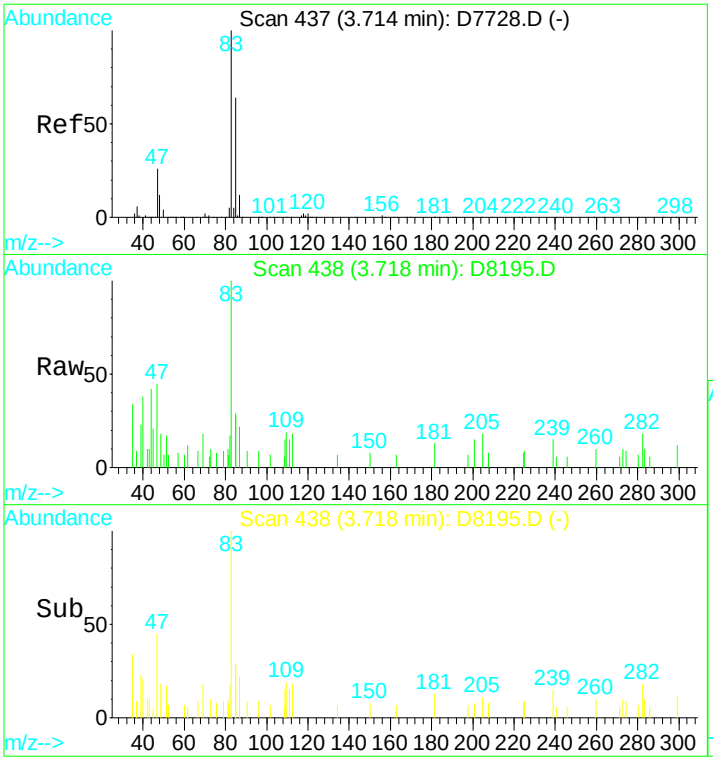


#18
TBA
Concen: 3.79 ug/L
RT: 2.14 min Scan# 178
Delta R.T. 0.01 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion: 59 Resp: 699

Ion	Ratio	Lower	Upper
59	100		
41	15.9	0.0	39.9

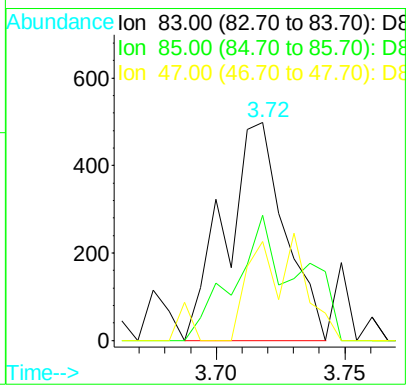


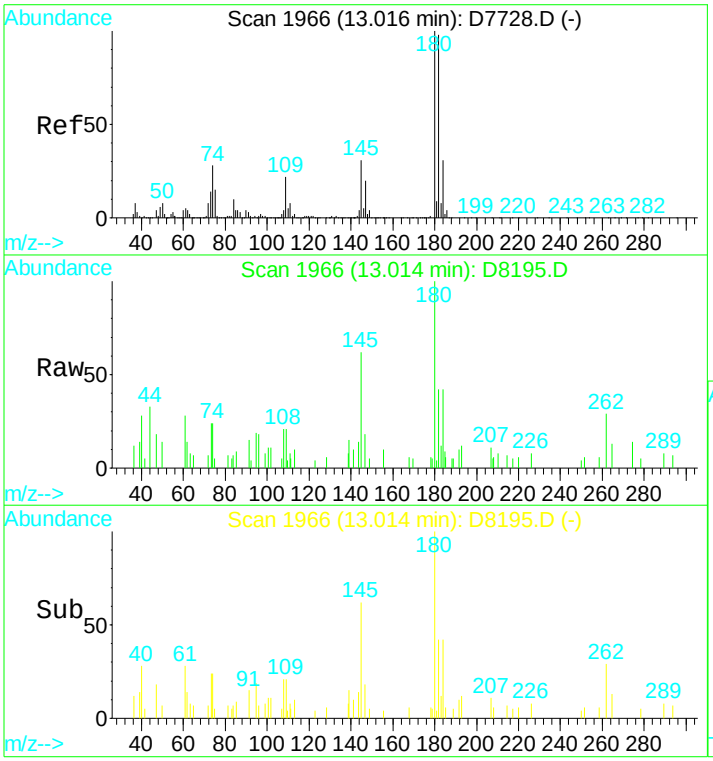


#35
Chloroform
Concen: 0.21 ug/L
RT: 3.72 min Scan# 438
Delta R.T. 0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion: 83 Resp: 803

Ion	Ratio	Lower	Upper
83	100		
85	57.3	43.9	83.9
47	45.5	8.1	48.1

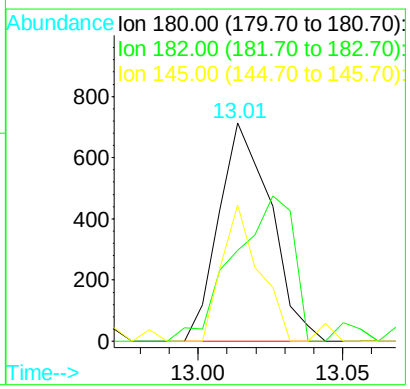


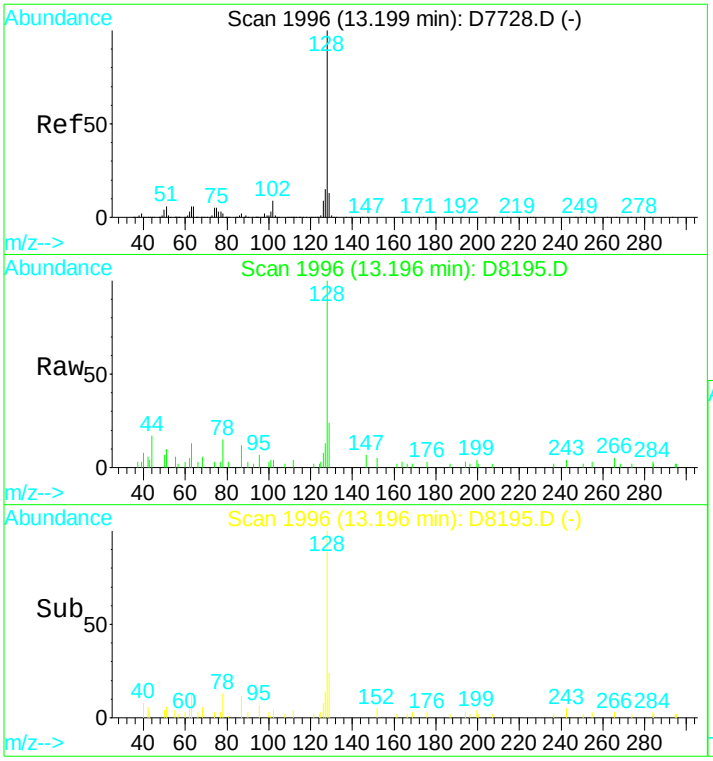


#105
1,2,4-Tcbenzene
Concen: 0.25 ug/L
RT: 13.01 min Scan# 1966
Delta R.T. -0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion:180 Resp: 894

Ion	Ratio	Lower	Upper
180	100		
182	76.0	77.3	117.3#
145	44.7	9.5	49.5

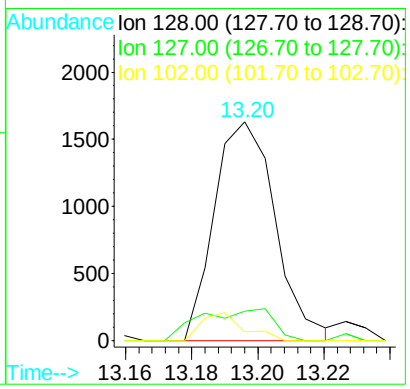


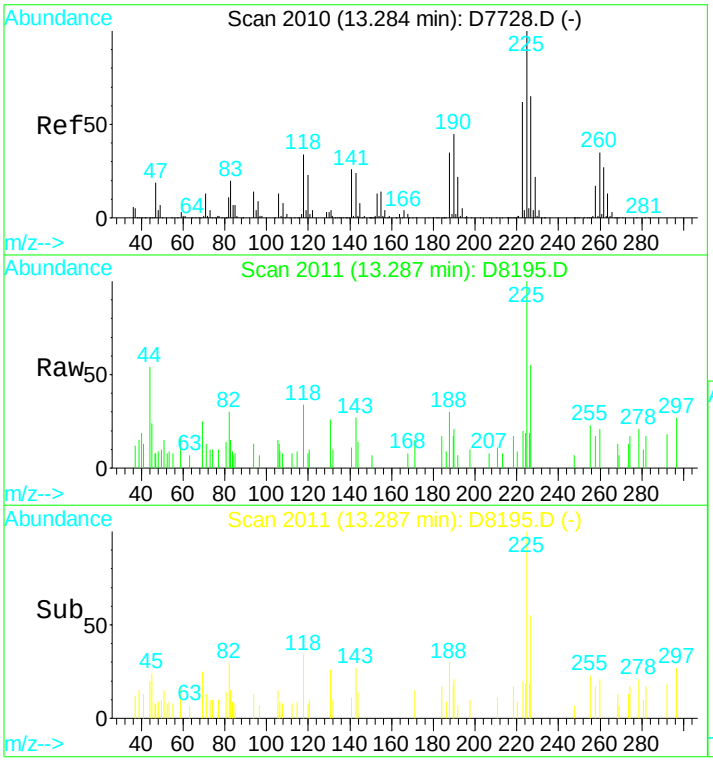


#106
Naphthalen
Concen: 0.31 ug/L
RT: 13.20 min Scan# 1996
Delta R.T. -0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion:128 Resp: 2093

Ion	Ratio	Lower	Upper
128	100		
127	17.5	0.0	35.0
102	8.9	0.0	29.4

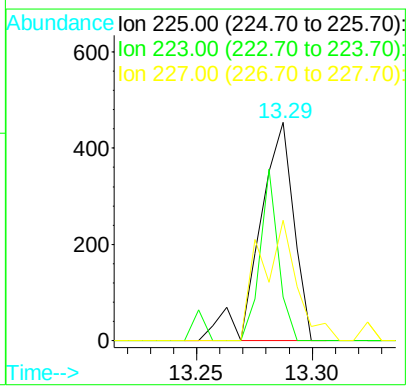




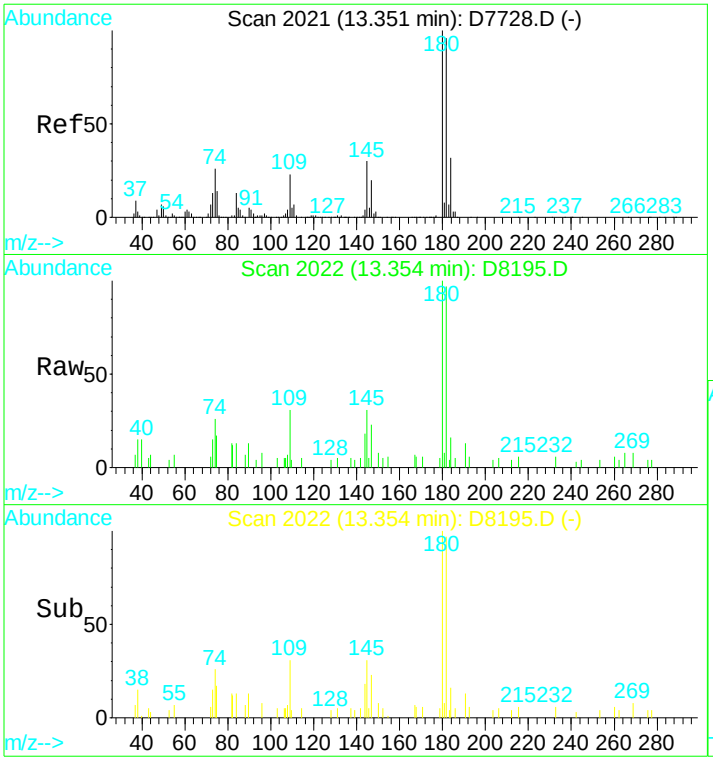
#107
Hexachlorobt
Concen: 0.27 ug/L
RT: 13.29 min Scan# 2011
Delta R.T. 0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion:225 Resp: 466

Ion	Ratio	Lower	Upper
225	100		
223	41.8	42.5	82.5#
227	59.4	45.8	85.8



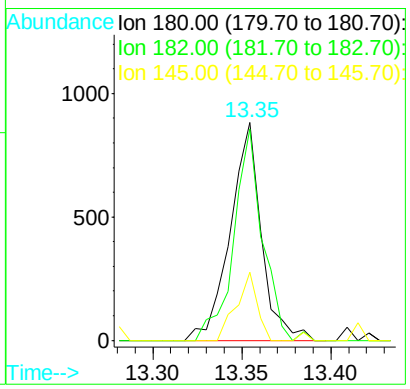
1st DL 09/18/17
2nd BA 09/20/17



#108
1,2,3-Tclbenzene
Concen: 0.35 ug/L
RT: 13.35 min Scan# 2022
Delta R.T. 0.00 min
Lab File: D8195.D
Acq: 15 Sep 2017 11:23 am

Tgt Ion:180 Resp: 1078

Ion	Ratio	Lower	Upper
180	100		
182	88.7	76.4	116.4
145	20.8	9.7	49.7



1st DL 09/18/17
2nd BA 09/20/17

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8196.D Vial: 10
Acq On : 15 Sep 2017 11:49 am Operator: D.Lipani
Sample : R1708648-004|10 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:25 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	283017	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	383061	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	185427	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	203624	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	141223	51.40	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.80%			
43) surr1,1,2-dichloroethane-d	4.47	65	147072	49.42	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.84%			
65) SURR3,Toluene-d8	7.89	98	429472	55.37	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.74%			
86) SURR2,BFB	10.25	95	177932	51.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.46%			
Target Compounds						Qvalue
14) Acetone	1.88	43	1391	2.63	ug/L	94
18) TBA	2.14	59	583	3.21	ug/L #	40
35) Chloroform	3.71	83	1010	0.27	ug/L	93
106) Naphthalen	13.20	128	1383	0.21	ug/L	92

foamy sample

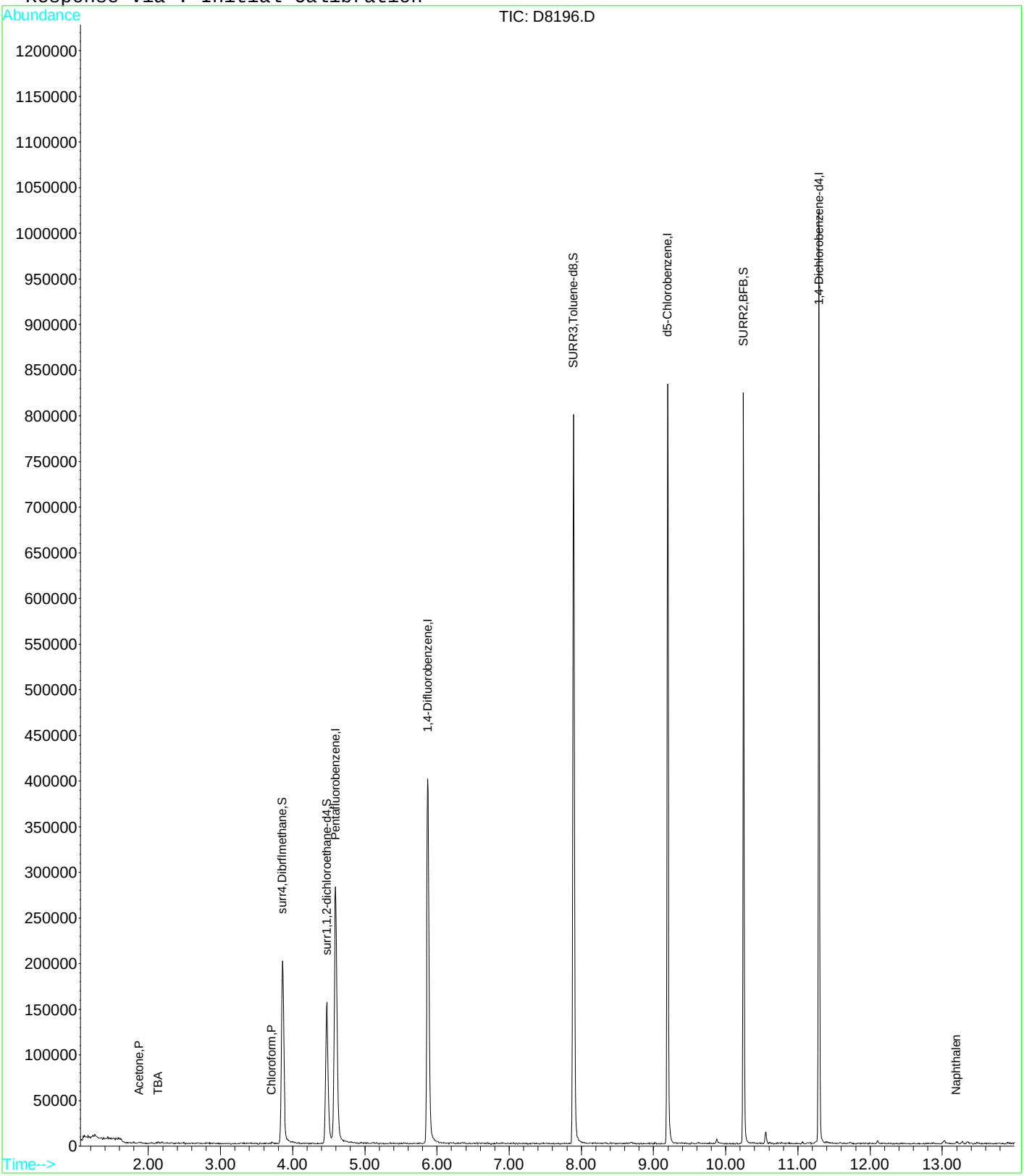
Diluted due to dark purple matrix!

(#) = qualifier out of range (m) = manual integration
D8196.D W082417.M Mon Sep 18 09:25:50 2017 Page 1

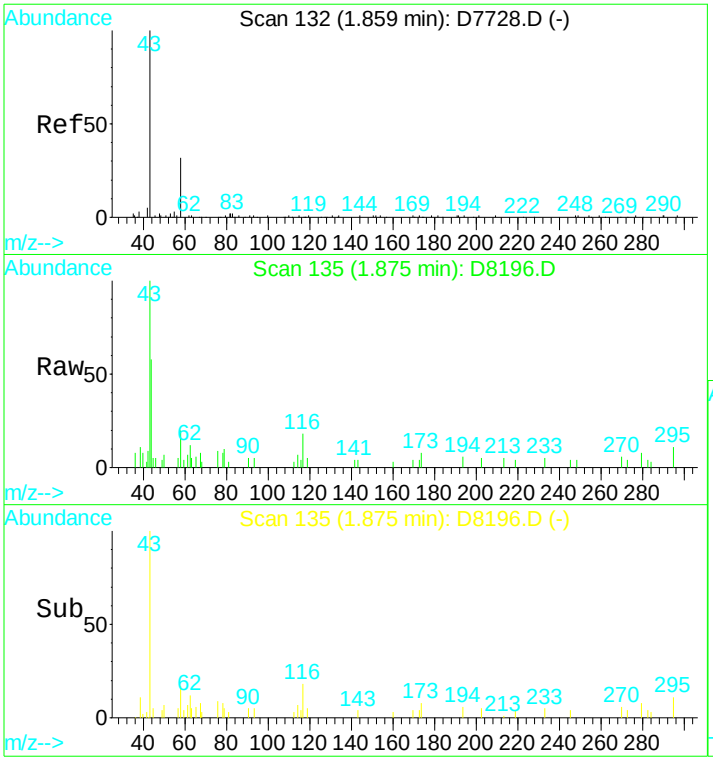
1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8196.D Vial: 10
Acq On : 15 Sep 2017 11:49 am Operator: D.Lipani
Sample : R1708648-004|10 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:25 2017 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



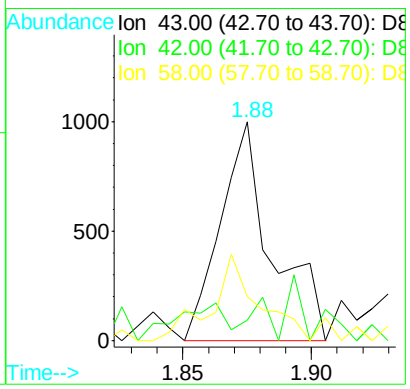
1st DL 09/18/17
2nd BA 09/20/17

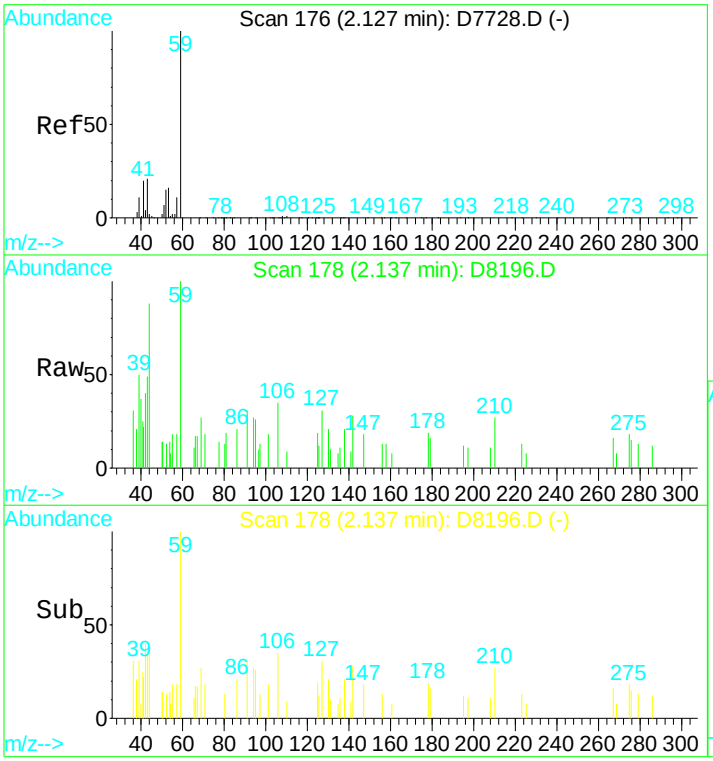


#14
Acetone
Concen: 2.63 ug/L
RT: 1.88 min Scan# 135
Delta R.T. 0.02 min
Lab File: D8196.D
Acq: 15 Sep 2017 11:49 am

Tgt Ion: 43 Resp: 1391

Ion	Ratio	Lower	Upper
43	100		
42	9.2	0.0	31.4
58	20.2	3.1	43.1

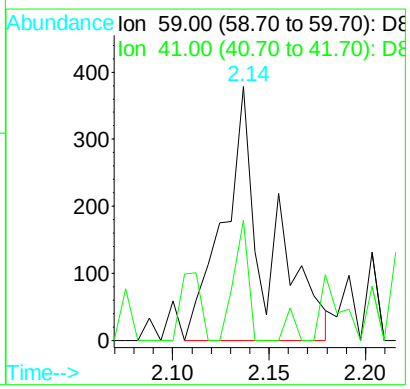


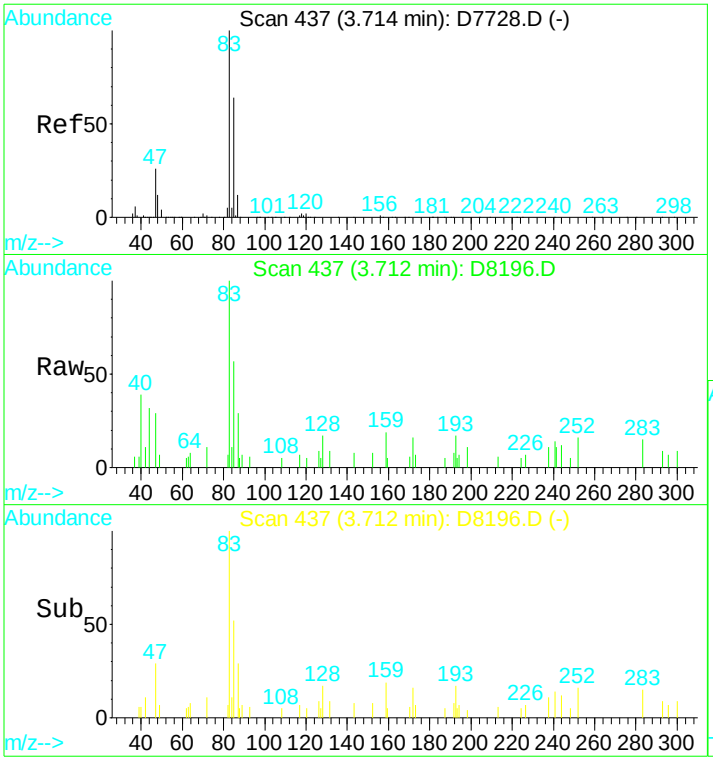


#18
TBA
Concen: 3.21 ug/L
RT: 2.14 min Scan# 178
Delta R.T. 0.01 min
Lab File: D8196.D
Acq: 15 Sep 2017 11:49 am

Tgt Ion: 59 Resp: 583

Ion	Ratio	Lower	Upper
59	100		
41	47.2	0.0	39.9#

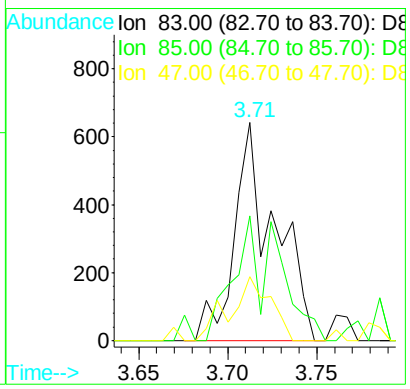


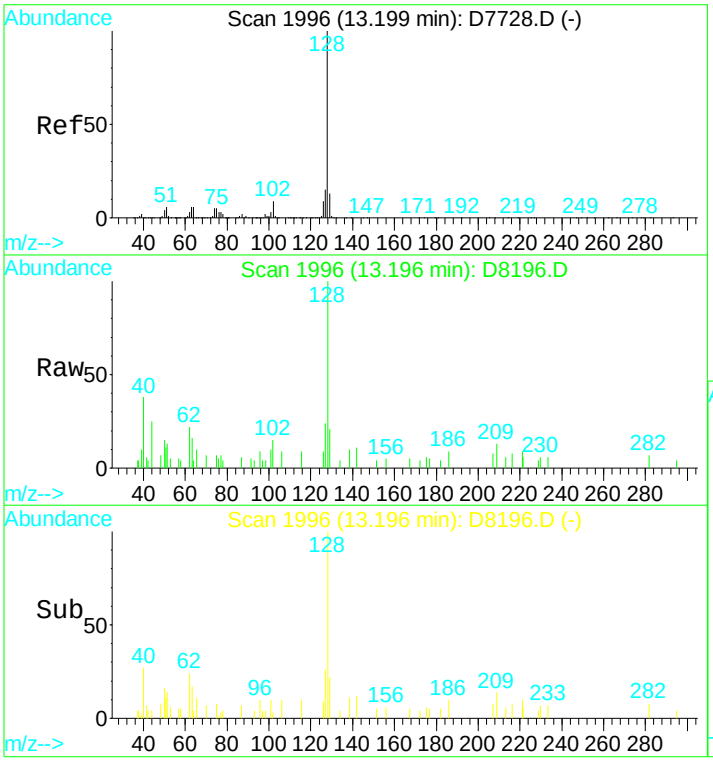


#35
Chloroform
Concen: 0.27 ug/L
RT: 3.71 min Scan# 437
Delta R.T. -0.00 min
Lab File: D8196.D
Acq: 15 Sep 2017 11:49 am

Tgt Ion: 83 Resp: 1010

Ion	Ratio	Lower	Upper
83	100		
85	57.1	43.9	83.9
47	29.4	8.1	48.1

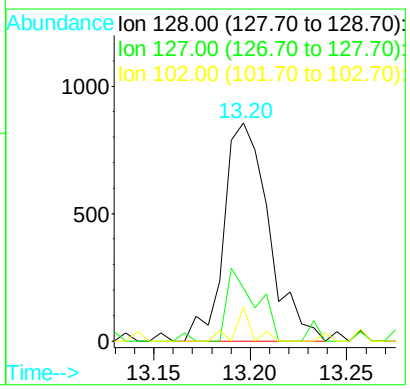




#106
Naphthalen
Concen: 0.21 ug/L
RT: 13.20 min Scan# 1996
Delta R.T. -0.00 min
Lab File: D8196.D
Acq: 15 Sep 2017 11:49 am

Tgt Ion:128 Resp: 1383

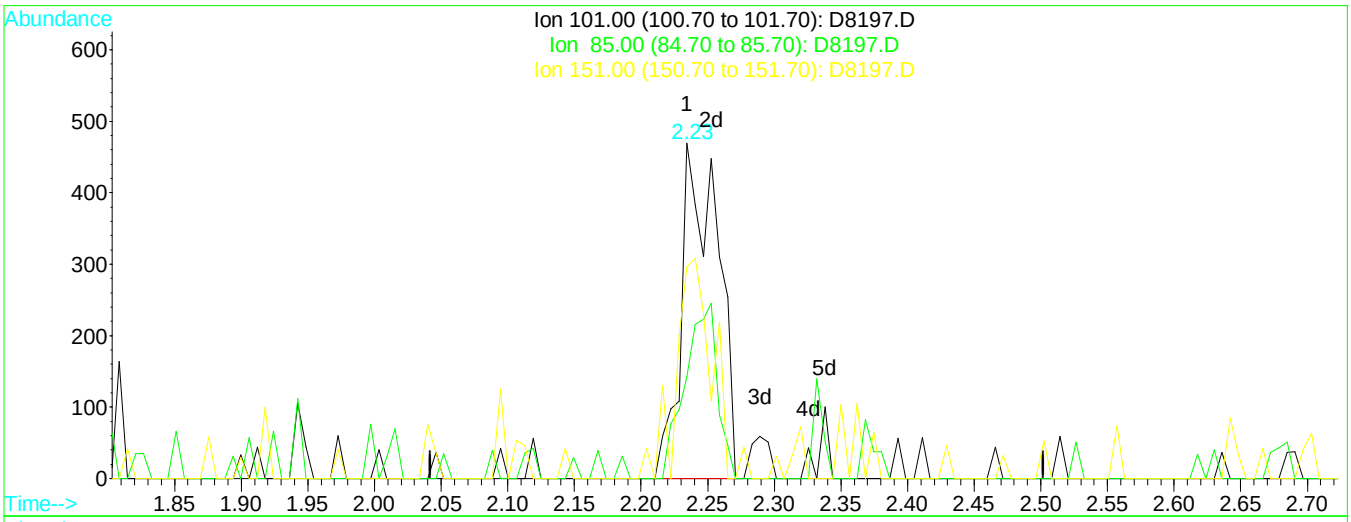
Ion	Ratio	Lower	Upper
128	100		
127	16.5	0.0	35.0
102	3.5	0.0	29.4

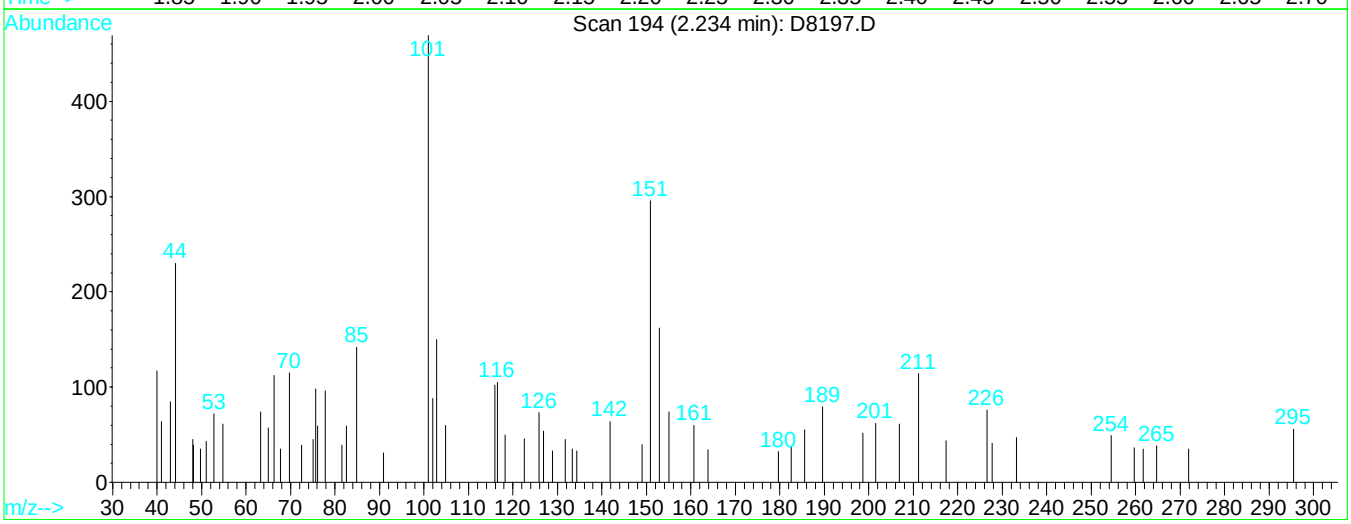


Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8197.D Vial: 11
Acq On : 15 Sep 2017 12:15 pm Operator: D.Lipani
Sample : R1708648-005|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 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 11:23:15 2017
Response via : Multiple Level Calibration





TIC: D8197.D

(21) Freon 113 (P)

2.23min 0.39ug/L m

response 891

Ion	Exp%	Act%
101.00	100	100
85.00	45.60	30.28
151.00	81.00	63.11
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

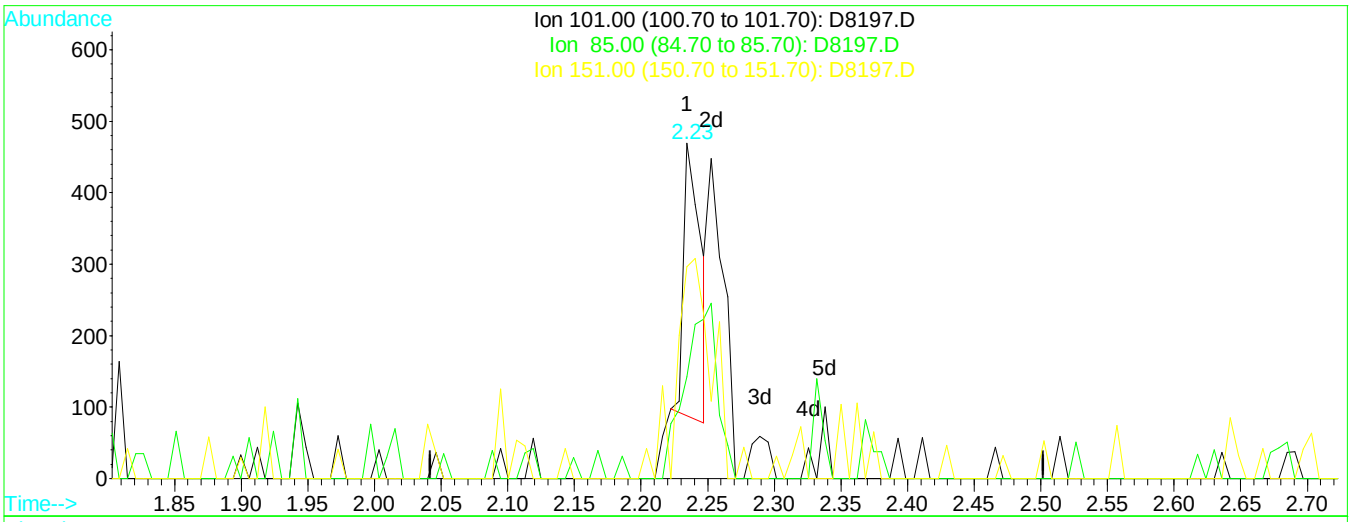
09/18/17

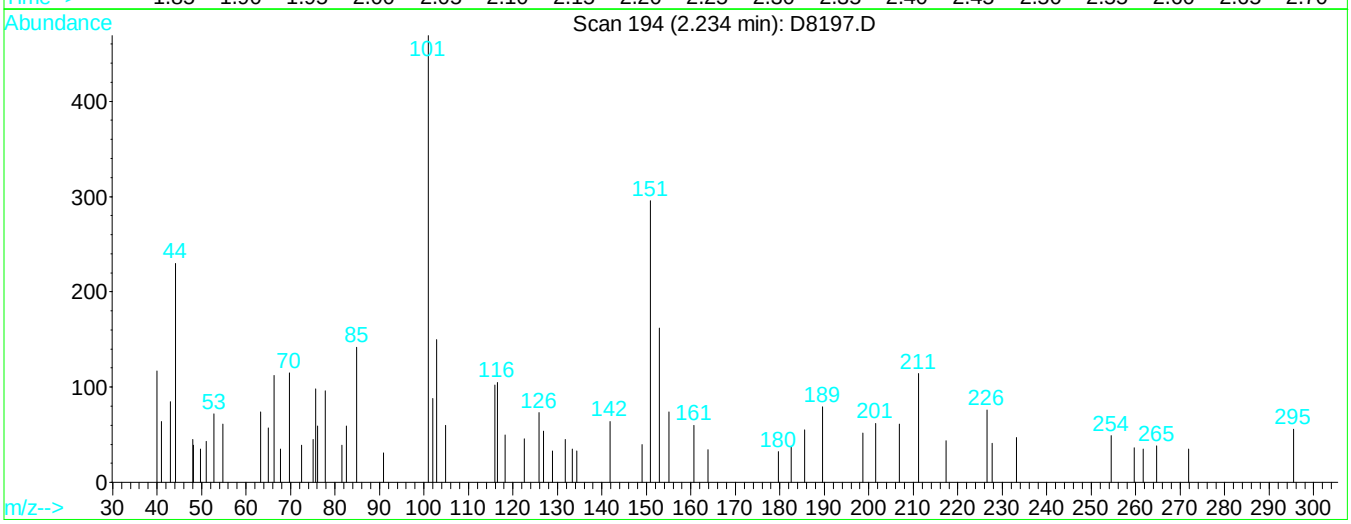
D8197.D W082417.M Mon Sep 18 09:45:00 2017

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8197.D Vial: 11
Acq On : 15 Sep 2017 12:15 pm Operator: D.Lipani
Sample : R1708648-005|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 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 11:23:15 2017
Response via : Multiple Level Calibration





TIC: D8197.D

(21) Freon 113 (P)

2.23min 0.15ug/L

response 335

Ion	Exp%	Act%
101.00	100	100
85.00	45.60	30.28
151.00	81.00	63.11
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8197.D W082417.M Mon Sep 18 09:44:55 2017

1st DL 09/18/17
2nd BA 09/20/17

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8197.D Vial: 11
Acq On : 15 Sep 2017 12:15 pm Operator: D.Lipani
Sample : R1708648-005|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:46 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	286827	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	393978	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	185043	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	201851	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	143060	50.63	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.26%			
43) surr1,1,2-dichloroethane-d	4.47	65	150074	49.03	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.06%			
65) SURR3,Toluene-d8	7.89	98	438053	54.91	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.82%			
86) SURR2,BFB	10.25	95	175420	50.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.22%			
Target Compounds						Qvalue
14) Acetone	1.86	43	3316	6.18	ug/L	89
18) TBA	2.13	59	226	1.23	ug/L	57
21) Freon 113	2.23	101	891m	0.39	ug/L	
24) Carbon Disulfide	2.31	76	3301	0.55	ug/L	85
108) 1,2,3-Tclbenzene	13.36	180	677	0.22	ug/L #	77

foamy sample

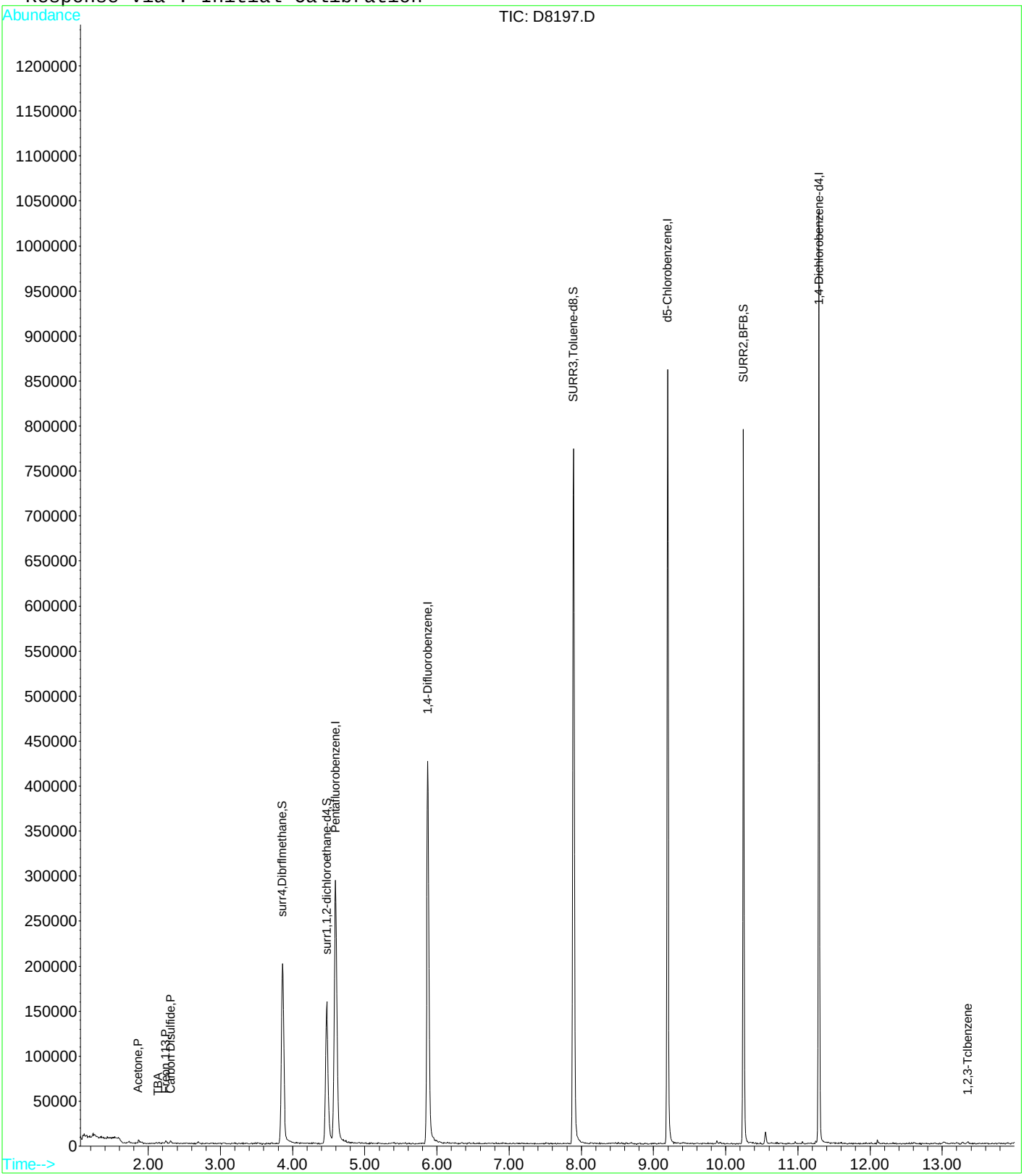
Diluted due to limited volume available!

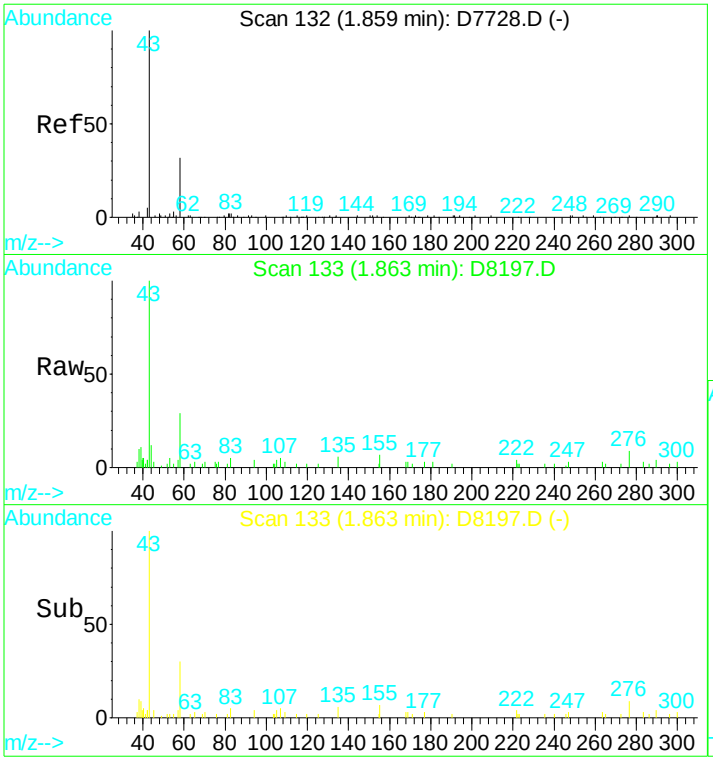
(#) = qualifier out of range (m) = manual integration
D8197.D W082417.M Mon Sep 18 09:46:34 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8197.D Vial: 11
Acq On : 15 Sep 2017 12:15 pm Operator: D.Lipani
Sample : R1708648-005|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:46 2017 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

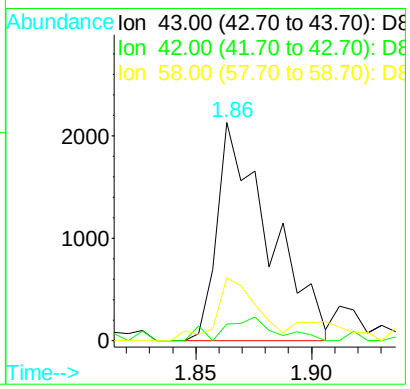


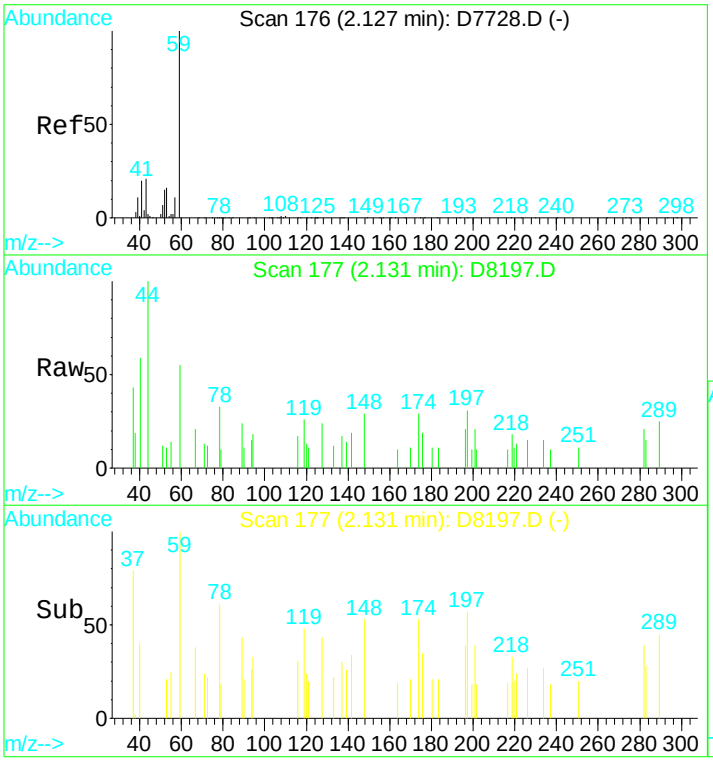


#14
Acetone
Concen: 6.18 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.00 min
Lab File: D8197.D
Acq: 15 Sep 2017 12:15 pm

Tgt Ion: 43 Resp: 3316

Ion	Ratio	Lower	Upper
43	100		
42	7.5	0.0	31.4
58	28.6	3.1	43.1

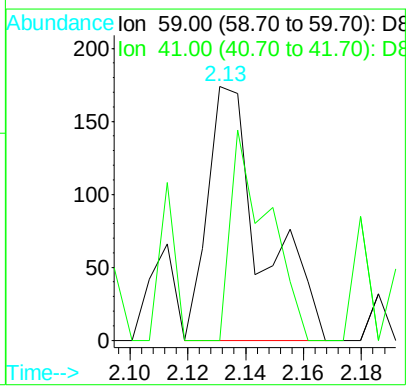


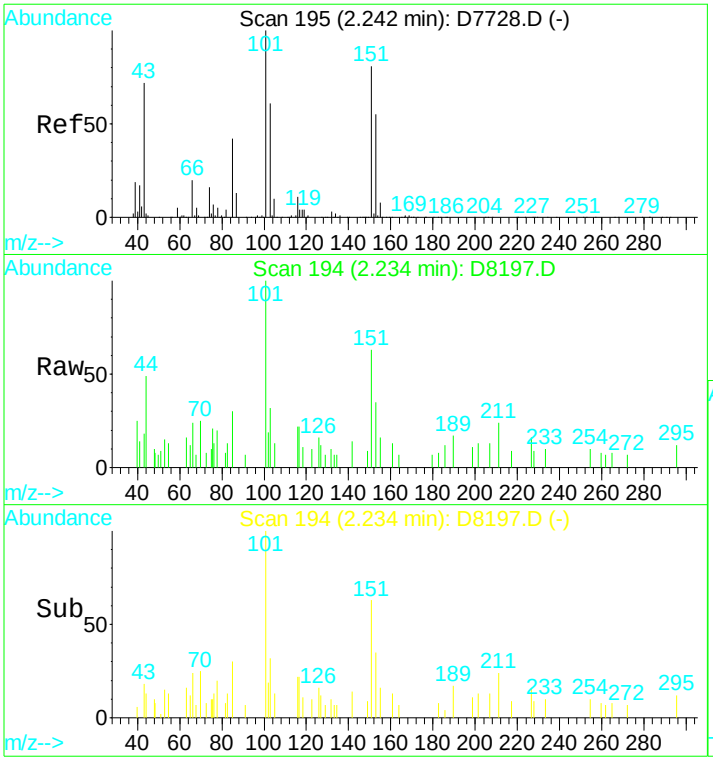


#18
TBA
Concen: 1.23 ug/L
RT: 2.13 min Scan# 177
Delta R.T. 0.00 min
Lab File: D8197.D
Acq: 15 Sep 2017 12:15 pm

Tgt Ion: 59 Resp: 226

Ion	Ratio	Lower	Upper
59	100		
41	0.0	0.0	39.9

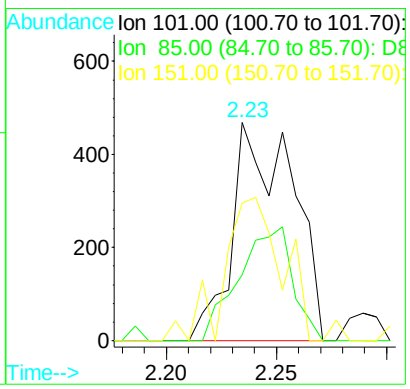


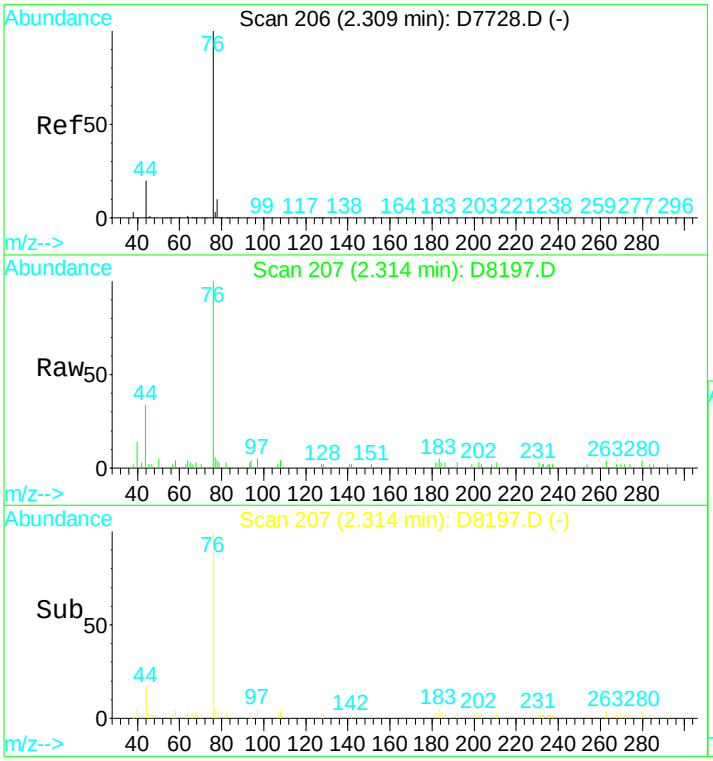


#21
Freon 113
Concen: 0.39 ug/L m
RT: 2.23 min Scan# 194
Delta R.T. -0.01 min
Lab File: D8197.D
Acq: 15 Sep 2017 12:15 pm

Tgt Ion:101 Resp: 891

Ion	Ratio	Lower	Upper
101	100		
85	30.3	25.6	65.6
151	63.1	61.0	101.0

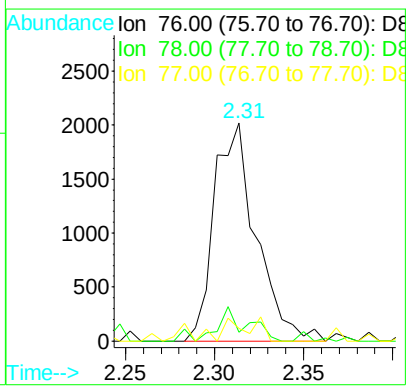




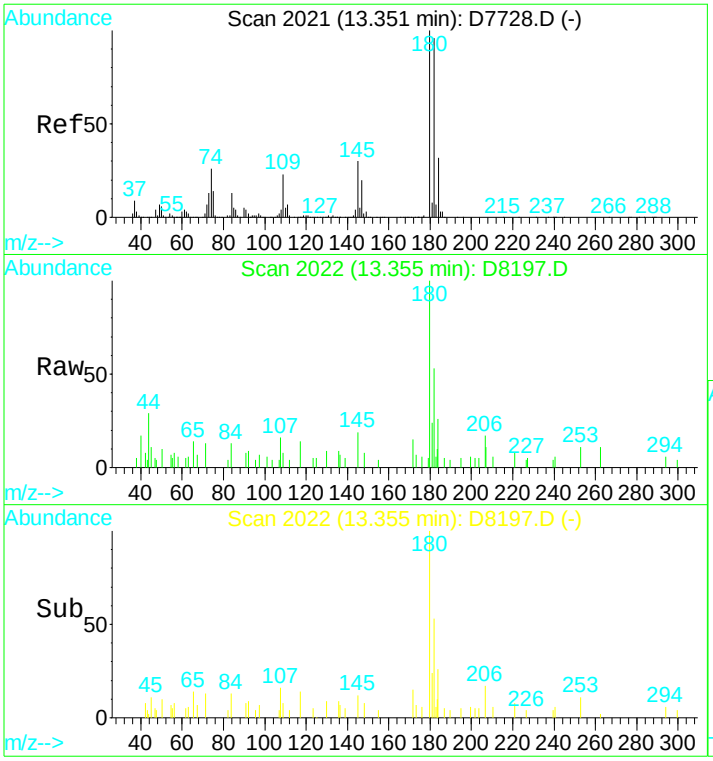
#24
Carbon Disulfide
Concen: 0.55 ug/L
RT: 2.31 min Scan# 207
Delta R.T. 0.00 min
Lab File: D8197.D
Acq: 15 Sep 2017 12:15 pm

Tgt Ion: 76 Resp: 3301

Ion	Ratio	Lower	Upper
76	100		
78	3.9	0.0	30.5
77	5.7	0.0	23.3



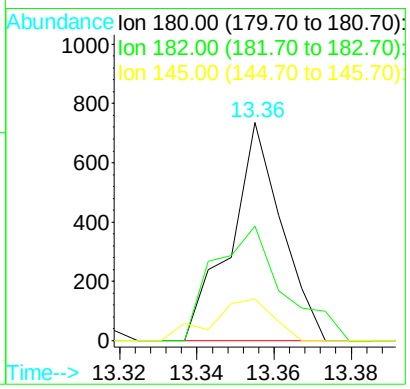
1st DL 09/18/17
2nd BA 09/20/17



#108
1,2,3-Tclbenzene
Concen: 0.22 ug/L
RT: 13.36 min Scan# 2022
Delta R.T. 0.00 min
Lab File: D8197.D
Acq: 15 Sep 2017 12:15 pm

Tgt Ion:180 Resp: 677

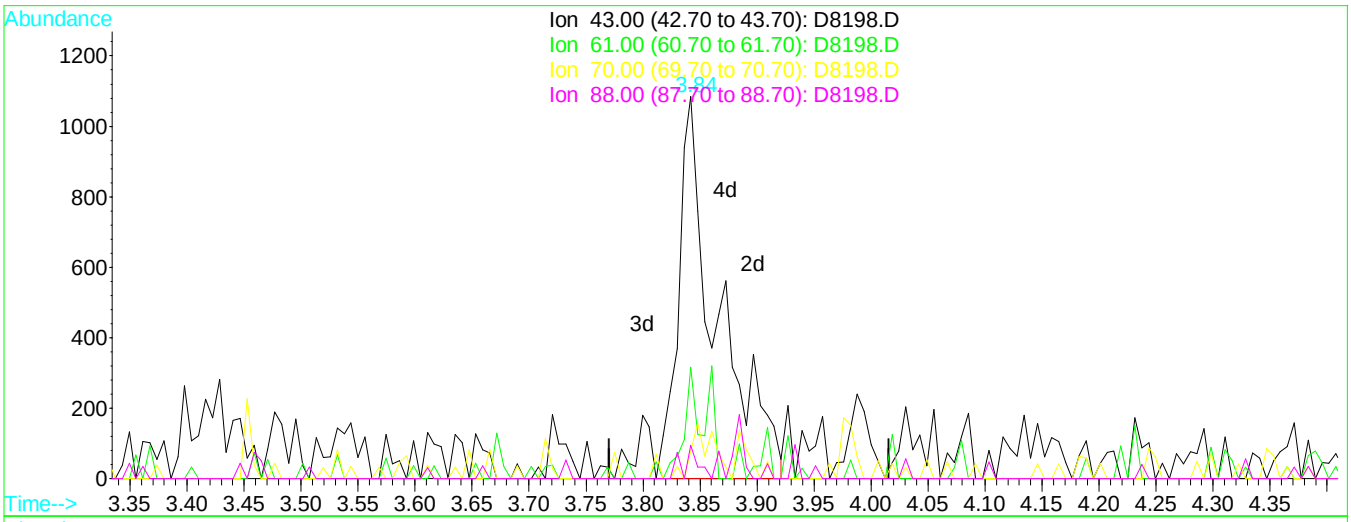
Ion	Ratio	Lower	Upper
180	100		
182	70.9	76.4	116.4#
145	22.9	9.7	49.7

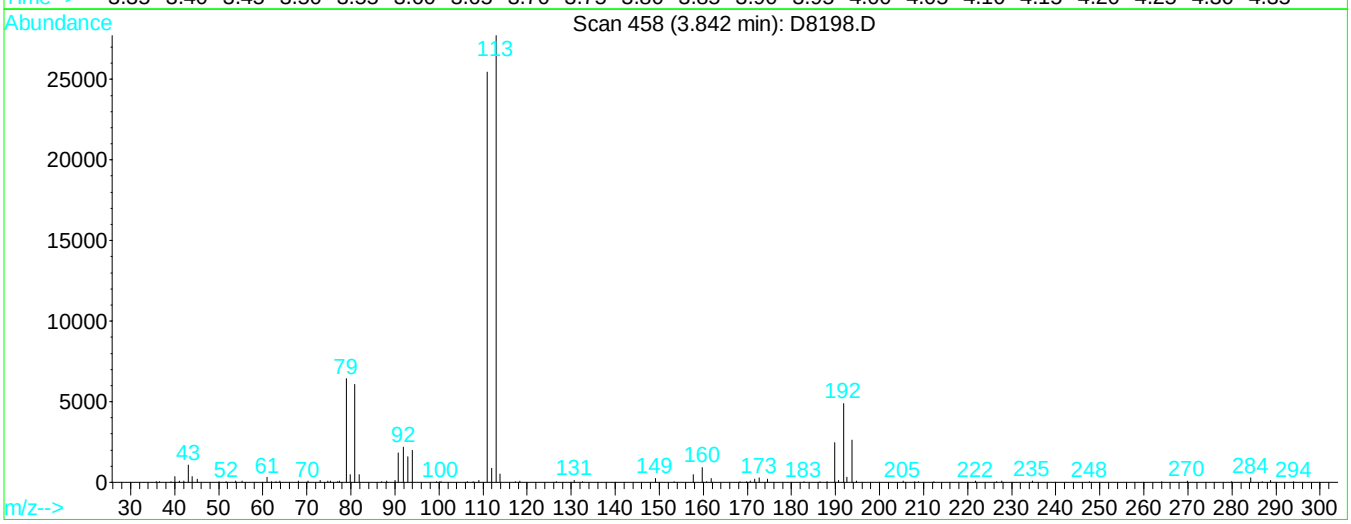


1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8198.D Vial: 12
Acq On : 15 Sep 2017 12:41 pm Operator: D.Lipani
Sample : R1708648-006|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:01 2017 Quant Results File: temp.res

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





TIC: D8198.D

(37) Ethyl Acetate

3.84min 1.75ug/L m

response 2570

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	29.24
70.00	10.60	7.29
88.00	4.70	8.67

Manual Integration:

After

Split Peak.

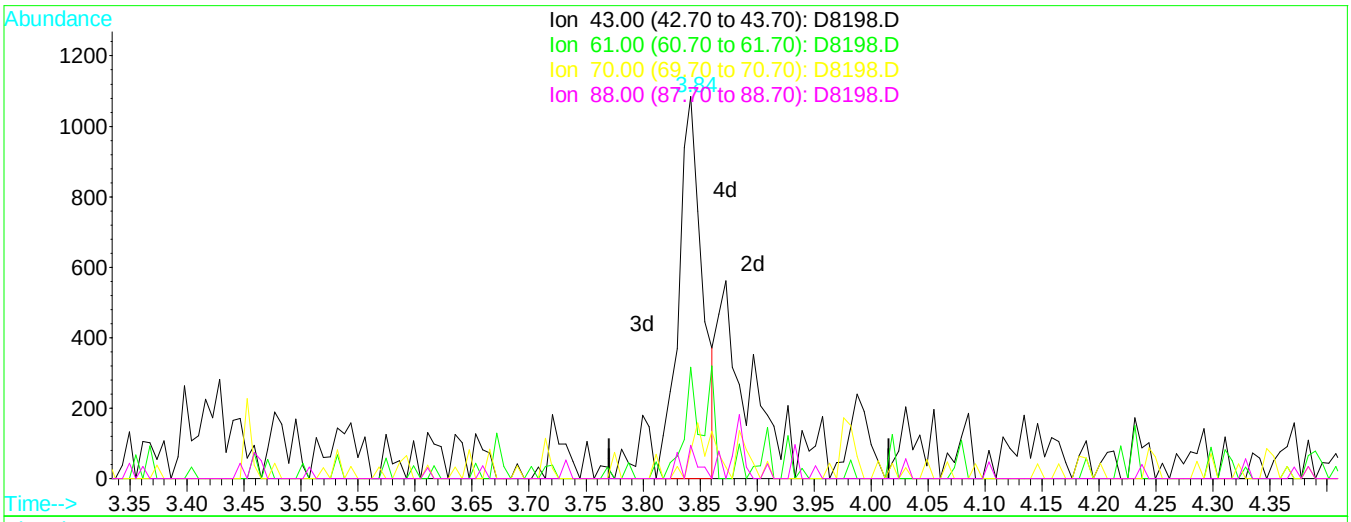
09/18/17

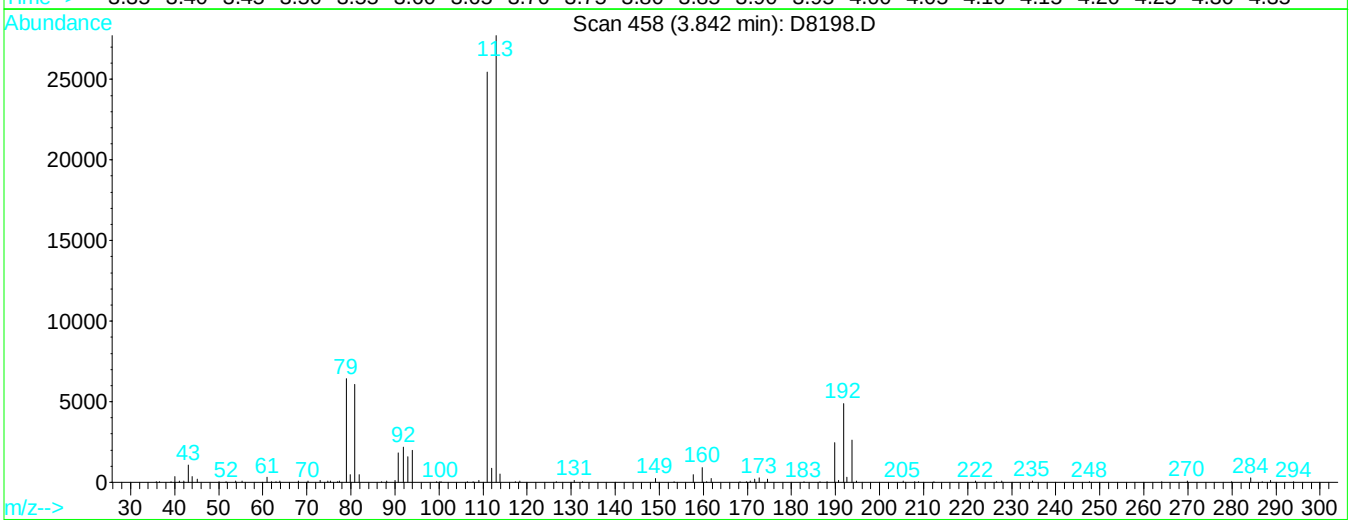
D8198.D W082417.M Mon Sep 18 12:01:04 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8198.D Vial: 12
Acq On : 15 Sep 2017 12:41 pm Operator: D.Lipani
Sample : R1708648-006|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:00 2017 Quant Results File: temp.res

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





TIC: D8198.D

(37) Ethyl Acetate

3.84min 1.08ug/L

response 1583

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	29.24
70.00	10.60	7.29
88.00	4.70	8.67

Manual Integration:

Before

09/18/17

D8198.D W082417.M Mon Sep 18 12:00:57 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8198.D Vial: 12
Acq On : 15 Sep 2017 12:41 pm Operator: D.Lipani
Sample : R1708648-006|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:02 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 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	279586	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	5.87	114	388946	50.00	ug/L		0.00
67) d5-Chlorobenzene	9.20	82	184402	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	201506	50.00	ug/L		0.00
System Monitoring Compounds							
41) surr4,Dibrflmethane	3.86	113	139826	50.12	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.24%				
43) surr1,1,2-dichloroethane-d	4.47	65	149060	49.33	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.66%				
65) SURR3,Toluene-d8	7.89	98	424514	53.90	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.80%				
86) SURR2,BFB	10.25	95	175162	50.72	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.44%				
Target Compounds							Qvalue
6) Chloroethane	1.51	64	1080	0.65	ug/L		87
14) Acetone	1.86	43	24936	47.64	ug/L		95
18) TBA	2.14	59	857	4.78	ug/L		63
24) Carbon Disulfide	2.32	76	9840	1.67	ug/L		95
35) Chloroform	3.70	83	928	0.25	ug/L	#	66
37) Ethyl Acetate	3.84	43	2570m	1.75	ug/L		
74) Tetrachloroethene	8.62	164	655	0.30	ug/L	#	68

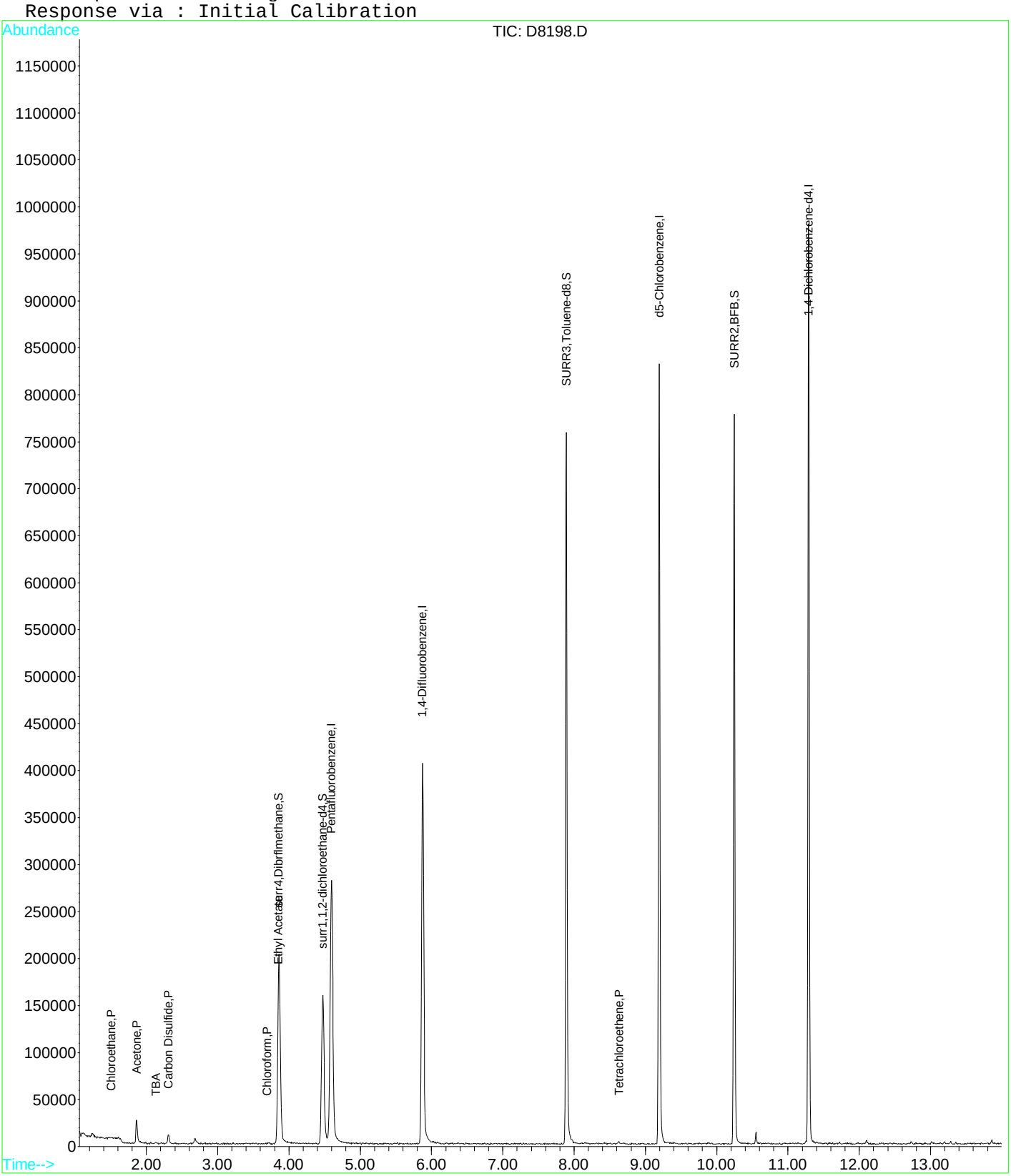
Diluted due to limited volume available

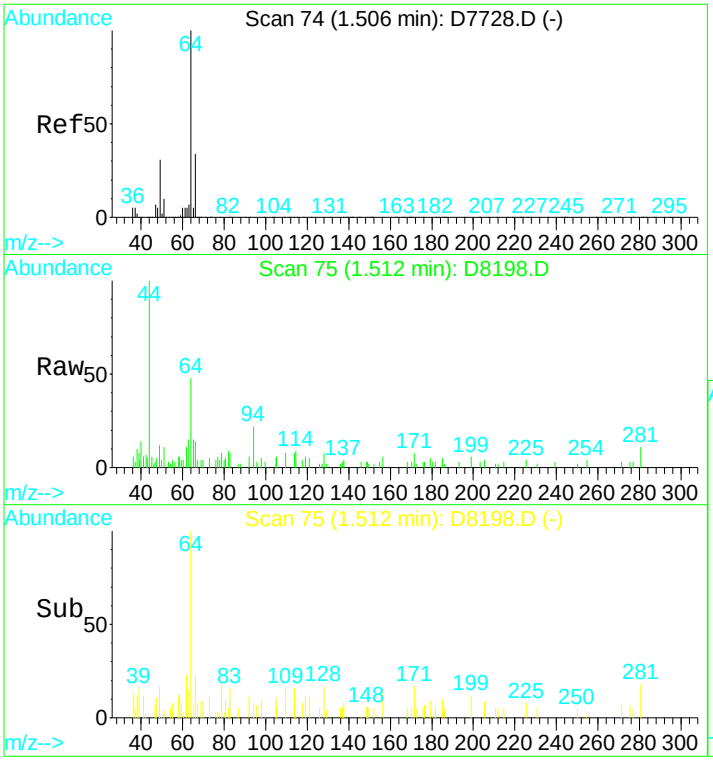
(#) = qualifier out of range (m) = manual integration
D8198.D W082417.M Mon Sep 18 12:02:43 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8198.D Vial: 12
Acq On : 15 Sep 2017 12:41 pm Operator: D.Lipani
Sample : R1708648-006|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:02 2017 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

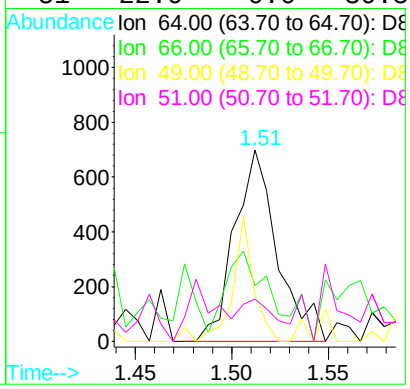


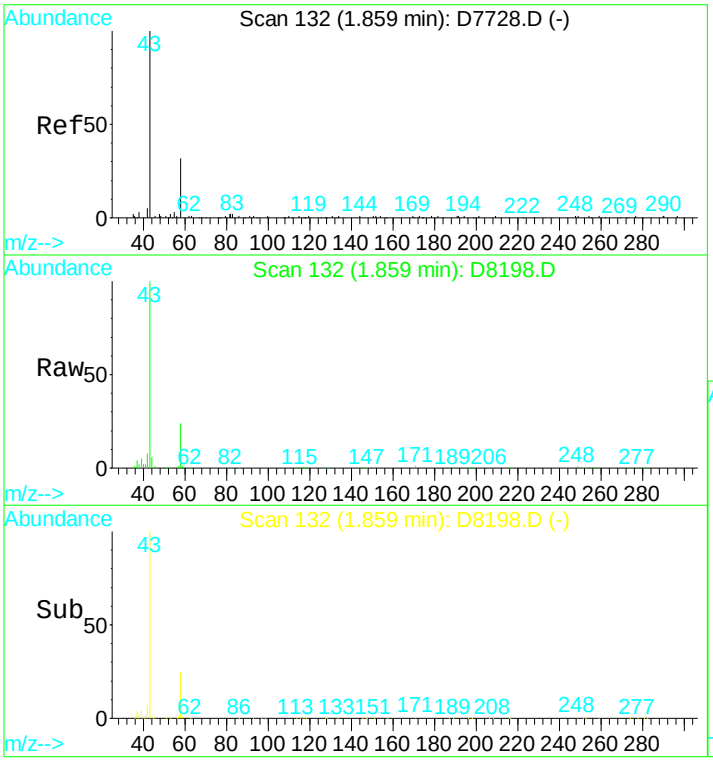


#6
Chloroethane
Concen: 0.65 ug/L
RT: 1.51 min Scan# 75
Delta R.T. 0.01 min
Lab File: D8198.D
Acq: 15 Sep 2017 12:41 pm

Tgt Ion: 64 Resp: 1080

Ion	Ratio	Lower	Upper
64	100		
66	29.0	14.3	54.3
49	24.4	10.7	50.7
51	22.0	0.0	30.5

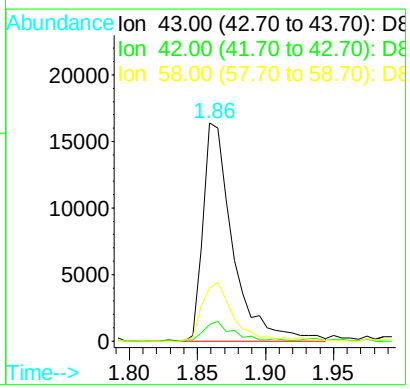


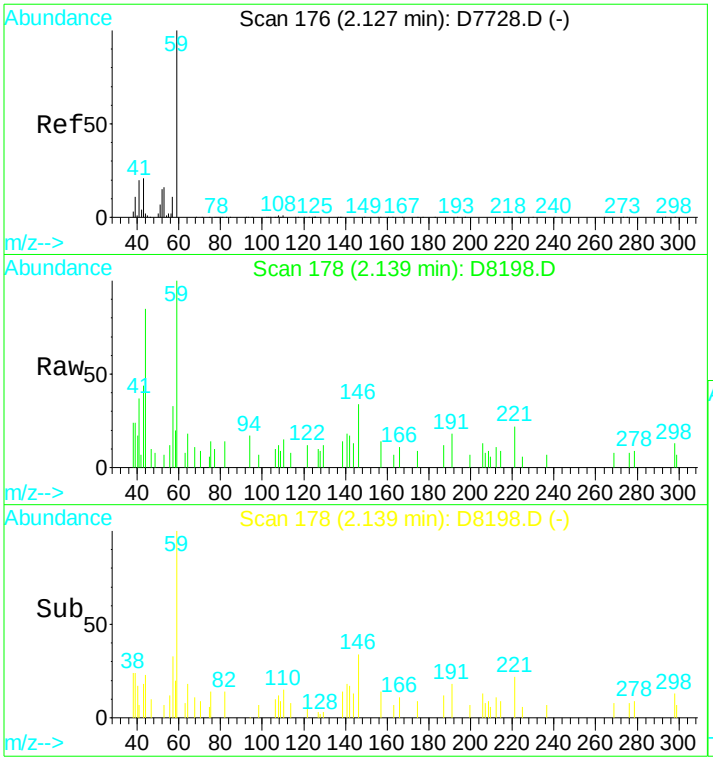


#14
Acetone
Concen: 47.64 ug/L
RT: 1.86 min Scan# 132
Delta R.T. -0.00 min
Lab File: D8198.D
Acq: 15 Sep 2017 12:41 pm

Tgt Ion: 43 Resp: 24936

Ion	Ratio	Lower	Upper
43	100		
42	7.6	0.0	31.4
58	24.3	3.1	43.1

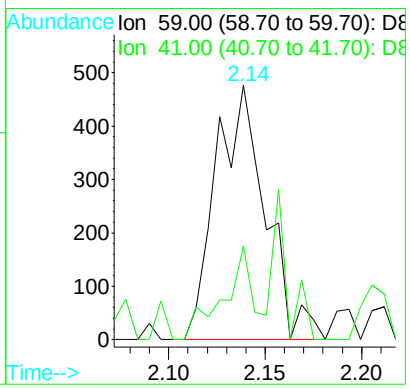


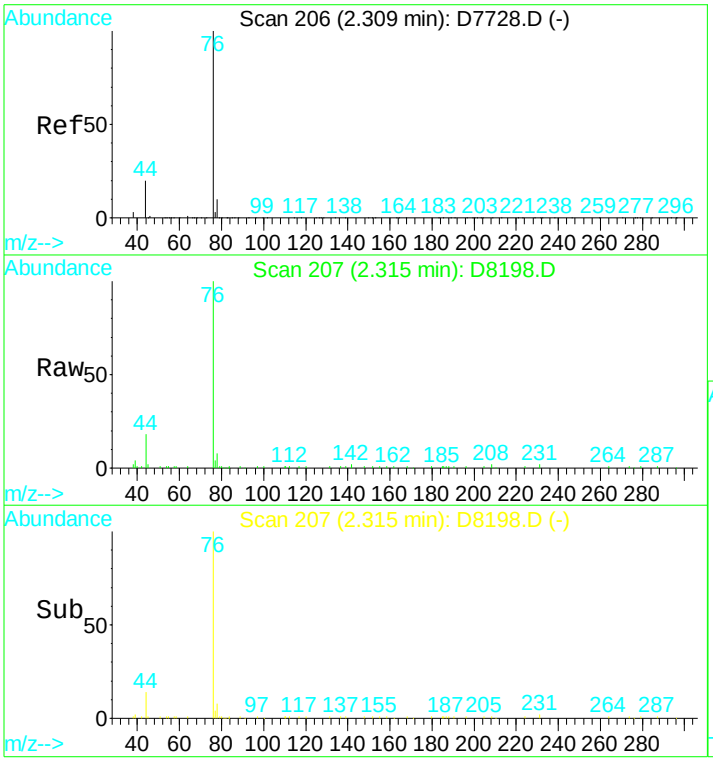


#18
TBA
Concen: 4.78 ug/L
RT: 2.14 min Scan# 178
Delta R.T. 0.01 min
Lab File: D8198.D
Acq: 15 Sep 2017 12:41 pm

Tgt Ion: 59 Resp: 857

Ion	Ratio	Lower	Upper
59	100		
41	37.0	0.0	39.9

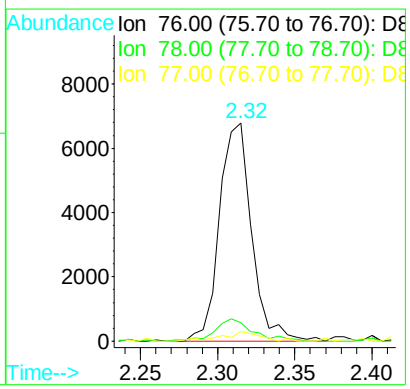


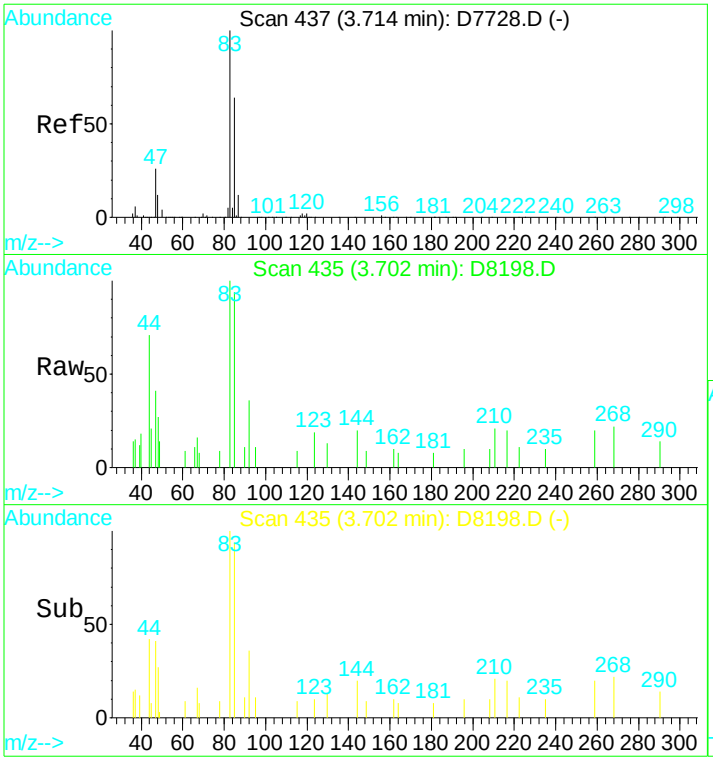


#24
Carbon Disulfide
Concen: 1.67 ug/L
RT: 2.32 min Scan# 207
Delta R.T. 0.01 min
Lab File: D8198.D
Acq: 15 Sep 2017 12:41 pm

Tgt Ion: 76 Resp: 9840

Ion	Ratio	Lower	Upper
76	100		
78	8.4	0.0	30.5
77	4.3	0.0	23.3

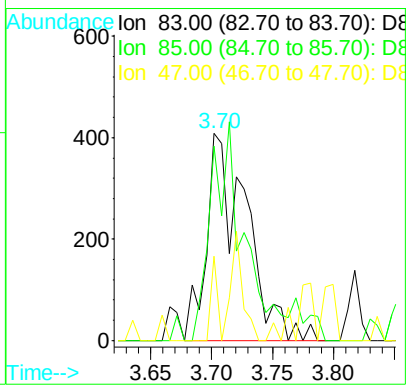


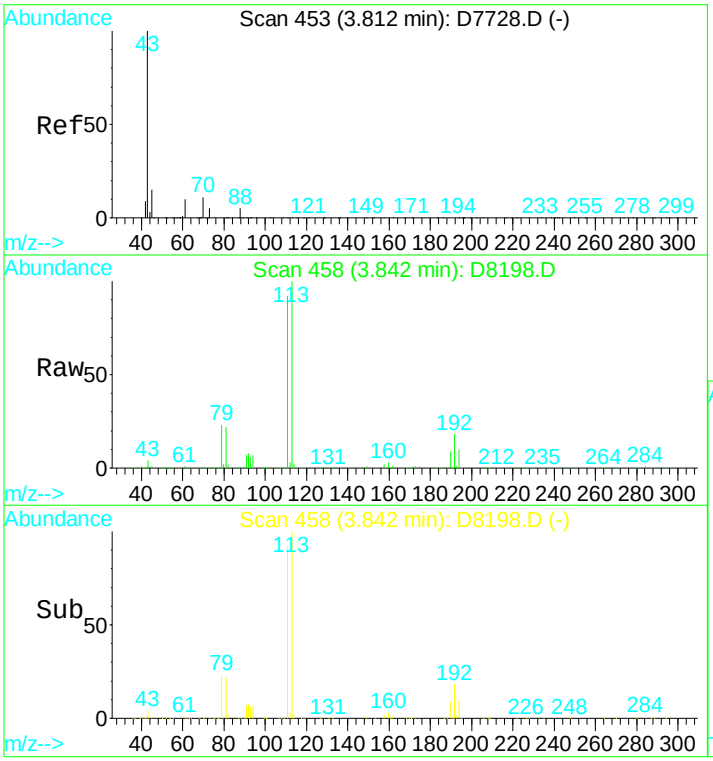


#35
Chloroform
Concen: 0.25 ug/L
RT: 3.70 min Scan# 435
Delta R.T. -0.01 min
Lab File: D8198.D
Acq: 15 Sep 2017 12:41 pm

Tgt Ion: 83 Resp: 928

Ion	Ratio	Lower	Upper
83	100		
85	93.6	43.9	83.9#
47	40.6	8.1	48.1

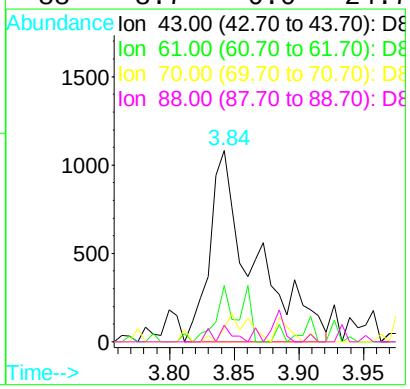


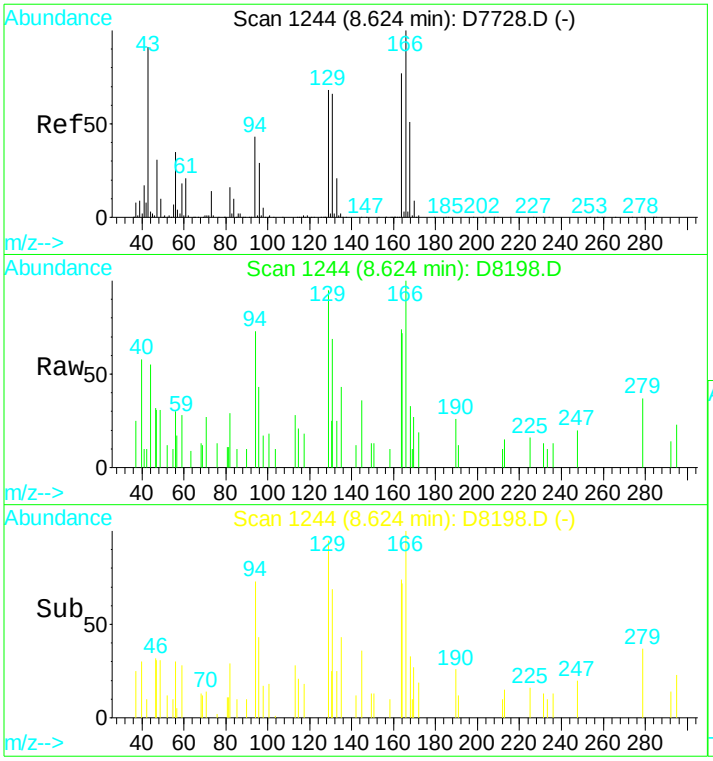


#37
Ethyl Acetate
Concen: 1.75 ug/L m
RT: 3.84 min Scan# 458
Delta R.T. 0.03 min
Lab File: D8198.D
Acq: 15 Sep 2017 12:41 pm

Tgt Ion: 43 Resp: 2570

Ion	Ratio	Lower	Upper
43	100		
61	29.2	1.7	41.7
70	7.3	0.0	30.6
88	8.7	0.0	24.7

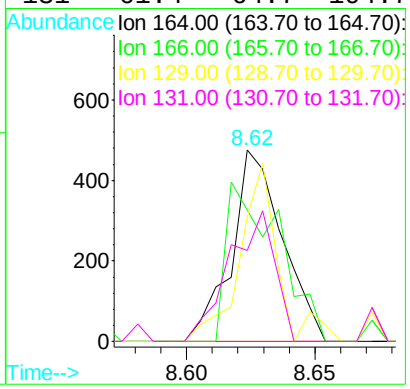




#74
Tetrachloroethene
Concen: 0.30 ug/L
RT: 8.62 min Scan# 1244
Delta R.T. -0.00 min
Lab File: D8198.D
Acq: 15 Sep 2017 12:41 pm

Tgt Ion:164 Resp: 655

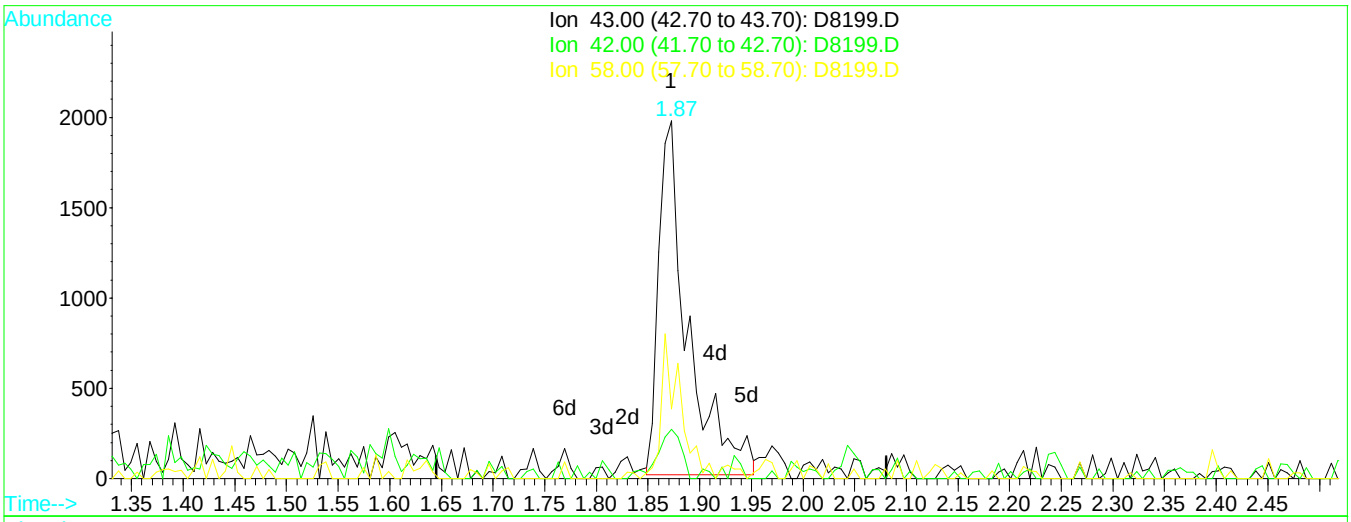
Ion	Ratio	Lower	Upper
164	100		
166	85.8	111.1	151.1#
129	62.7	67.3	107.3#
131	61.4	64.7	104.7#

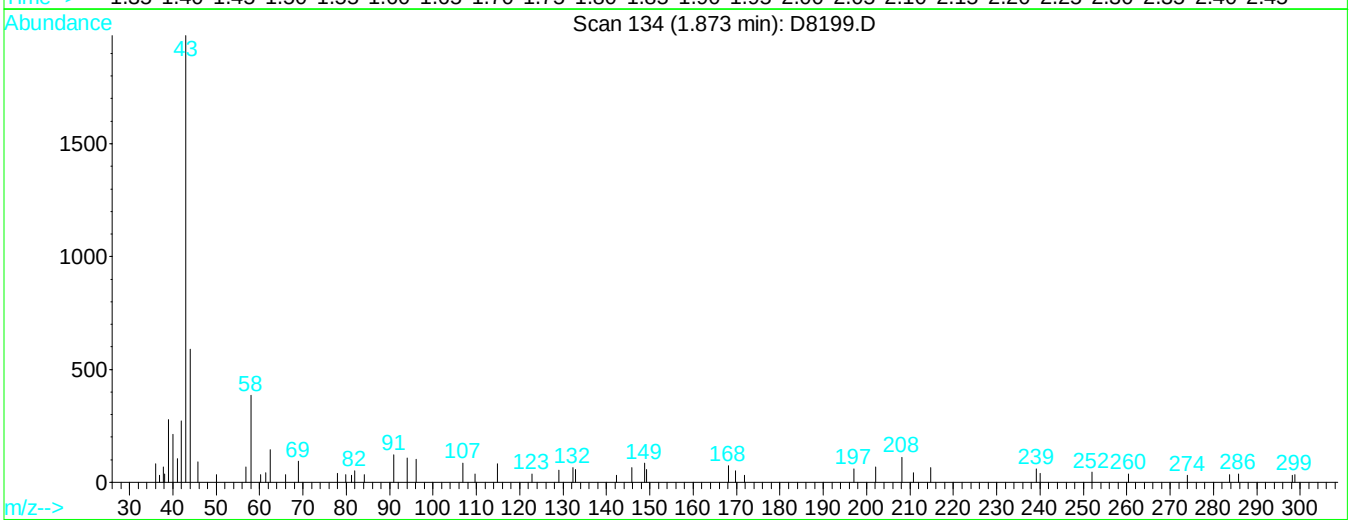


Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8199.D Vial: 13
Acq On : 15 Sep 2017 1:06 pm Operator: D.Lipani
Sample : R1708648-007|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:47 2017 Quant Results File: temp.res

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





TIC: D8199.D

(14) Acetone (P)

1.87min 7.06ug/L m

response 3804

Ion	Exp%	Act%
43.00	100	100
42.00	11.40	13.74
58.00	23.10	19.45
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

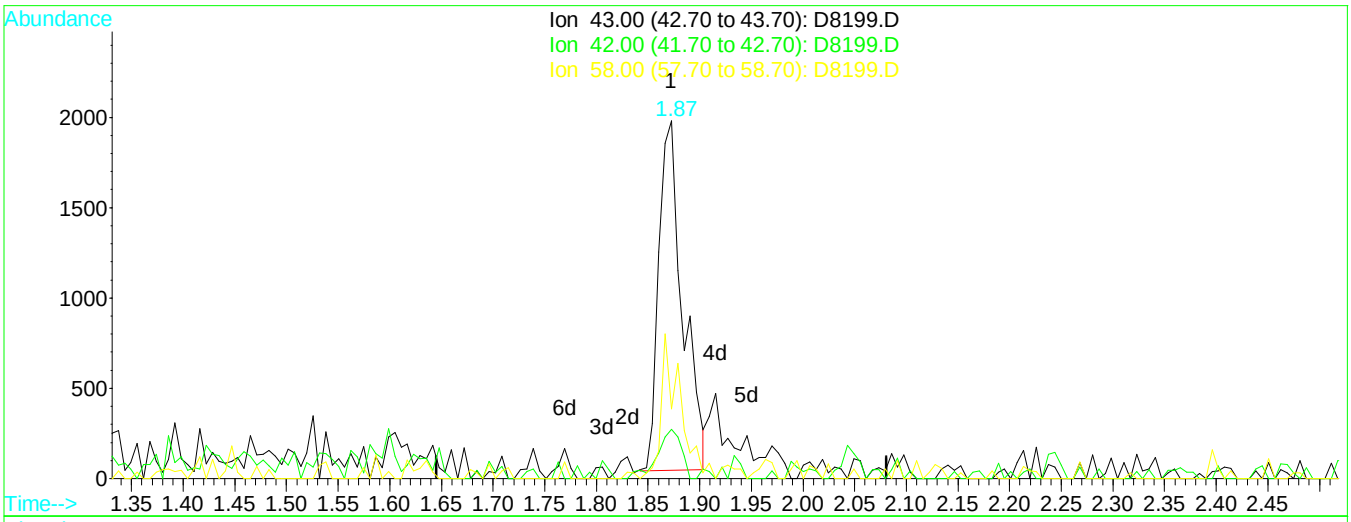
09/18/17

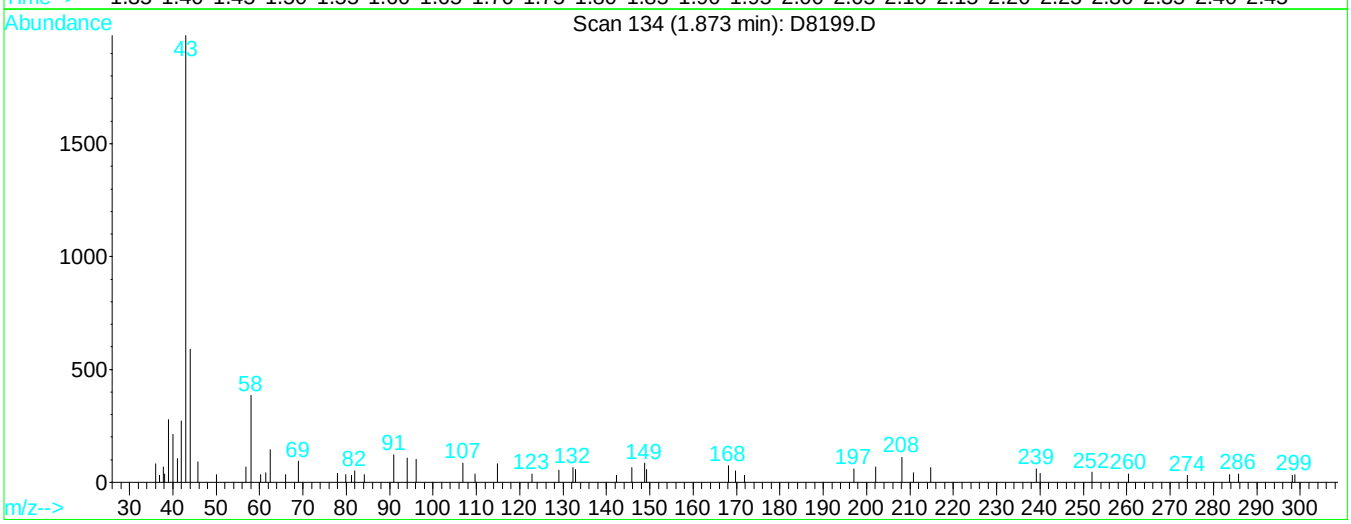
D8199.D W082417.M Mon Sep 18 12:48:02 2017

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8199.D Vial: 13
Acq On : 15 Sep 2017 1:06 pm Operator: D.Lipani
Sample : R1708648-007|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:47 2017 Quant Results File: temp.res

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





TIC: D8199.D

(14) Acetone (P)

1.87min 5.76ug/L

response 3104

Ion	Exp%	Act%
43.00	100	100
42.00	11.40	13.74
58.00	23.10	19.45
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

Quantitation Report (QT Reviewed)

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8199.D Vial: 13
Acq On : 15 Sep 2017 1:06 pm Operator: D.Lipani
Sample : R1708648-007|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:49 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	287806	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	396236	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	183572	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	200837	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	141626	49.84	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.68%			foamy sample
43) surr1,1,2-dichloroethane-d	4.48	65	146128	47.47	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 94.94%			
65) SURR3,Toluene-d8	7.89	98	432006	53.84	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.68%			
86) SURR2,BFB	10.24	95	173329	50.41	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.82%			
Target Compounds						Qvalue
14) Acetone	1.87	43	3804m	7.06	ug/L	

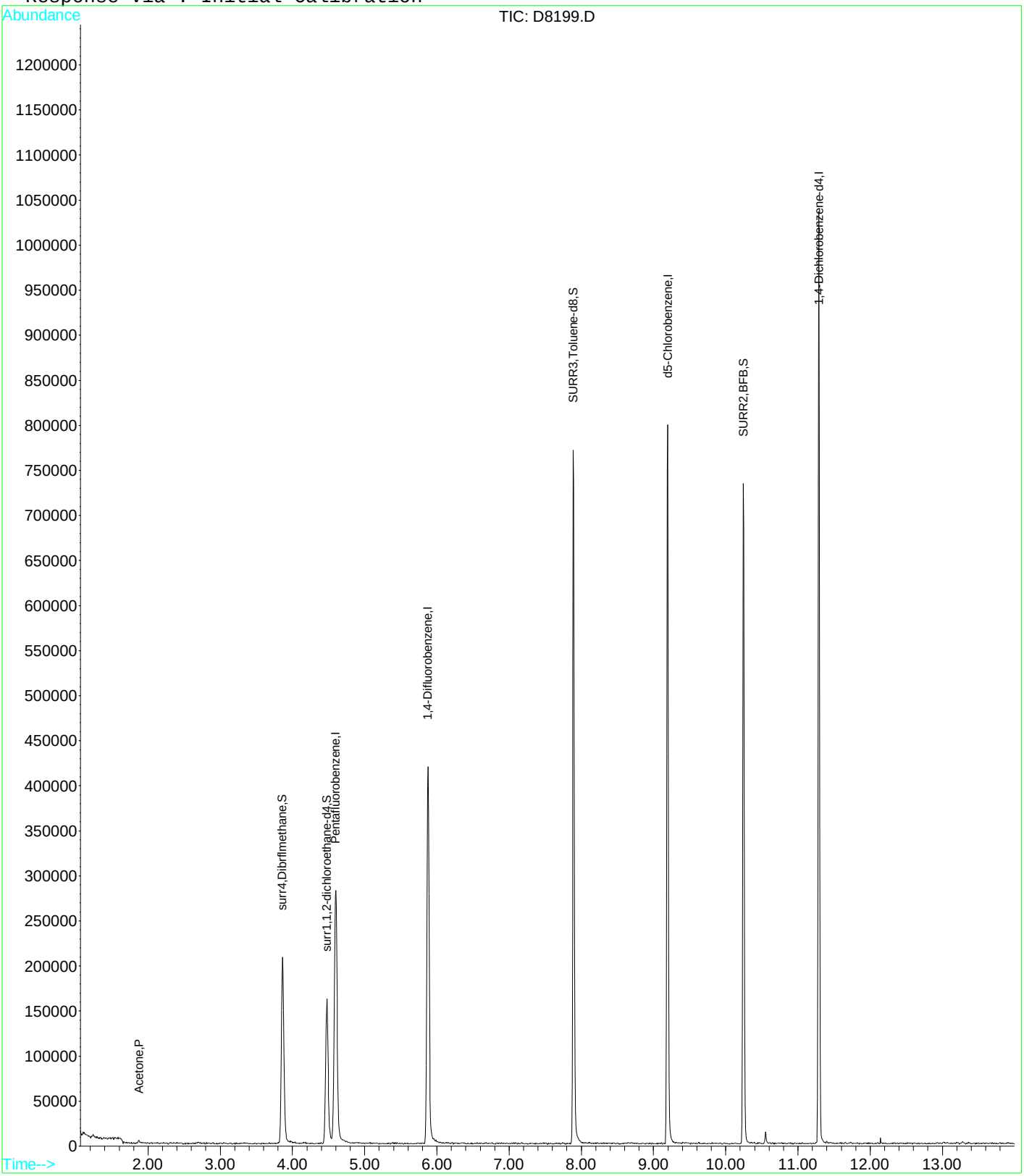
Diluted due to dark purple matrix

(#) = qualifier out of range (m) = manual integration
D8199.D W082417.M Mon Sep 18 12:50:03 2017 Page 1

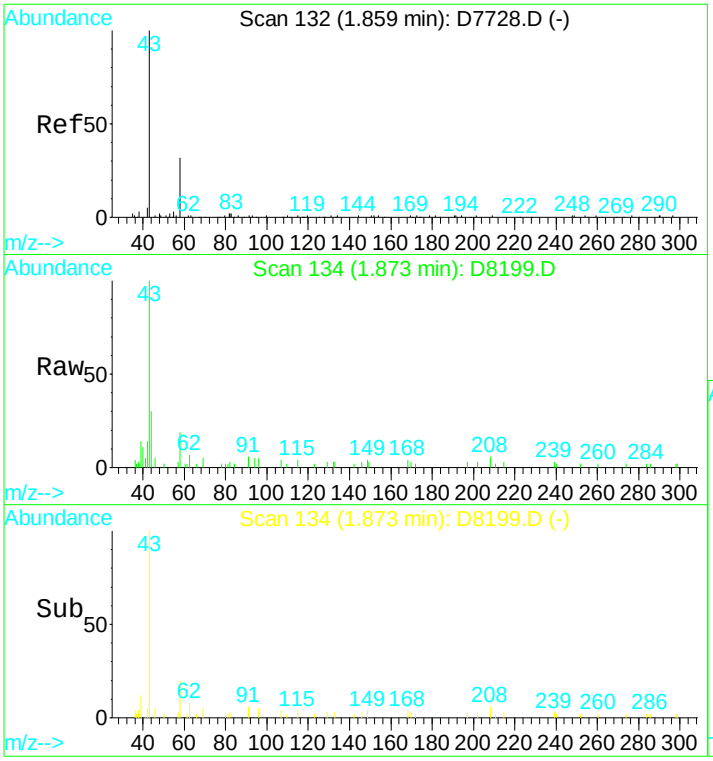
1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8199.D Vial: 13
Acq On : 15 Sep 2017 1:06 pm Operator: D.Lipani
Sample : R1708648-007|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:49 2017 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



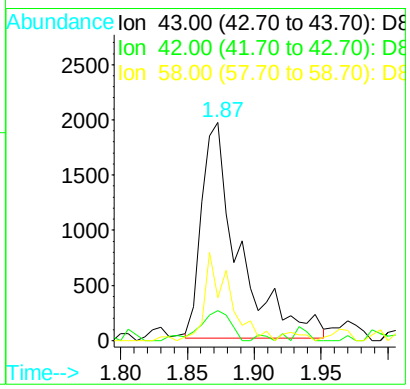
1st DL 09/18/17
2nd BA 09/20/17



#14
Acetone
Concen: 7.06 ug/L m
RT: 1.87 min Scan# 134
Delta R.T. 0.01 min
Lab File: D8199.D
Acq: 15 Sep 2017 1:06 pm

Tgt Ion: 43 Resp: 3804

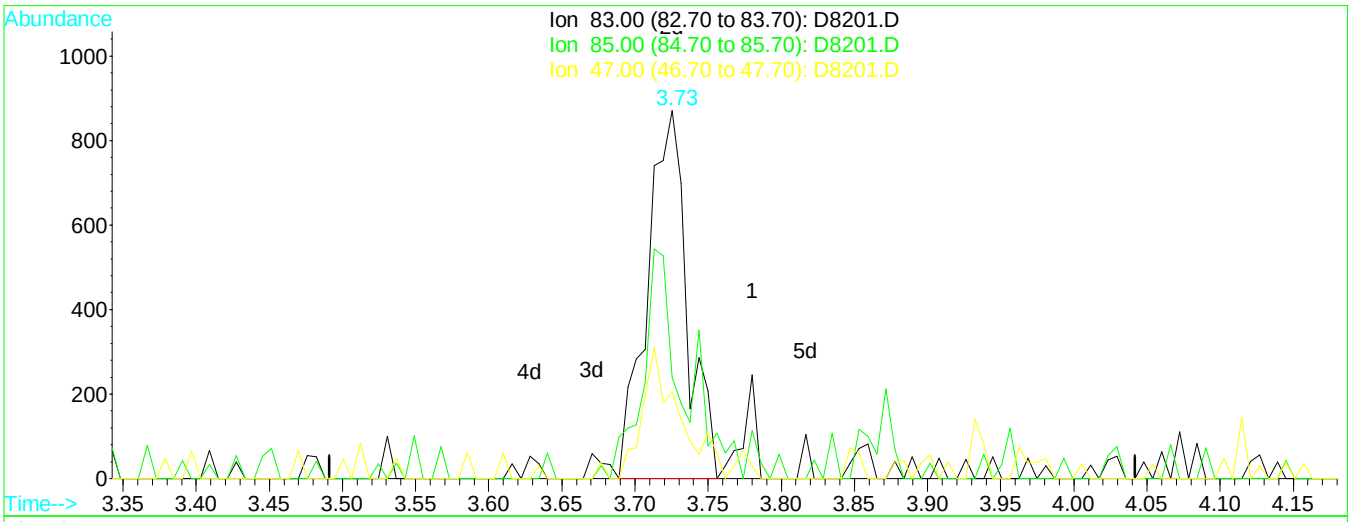
Ion	Ratio	Lower	Upper
43	100		
42	13.7	0.0	31.4
58	19.5	3.1	43.1

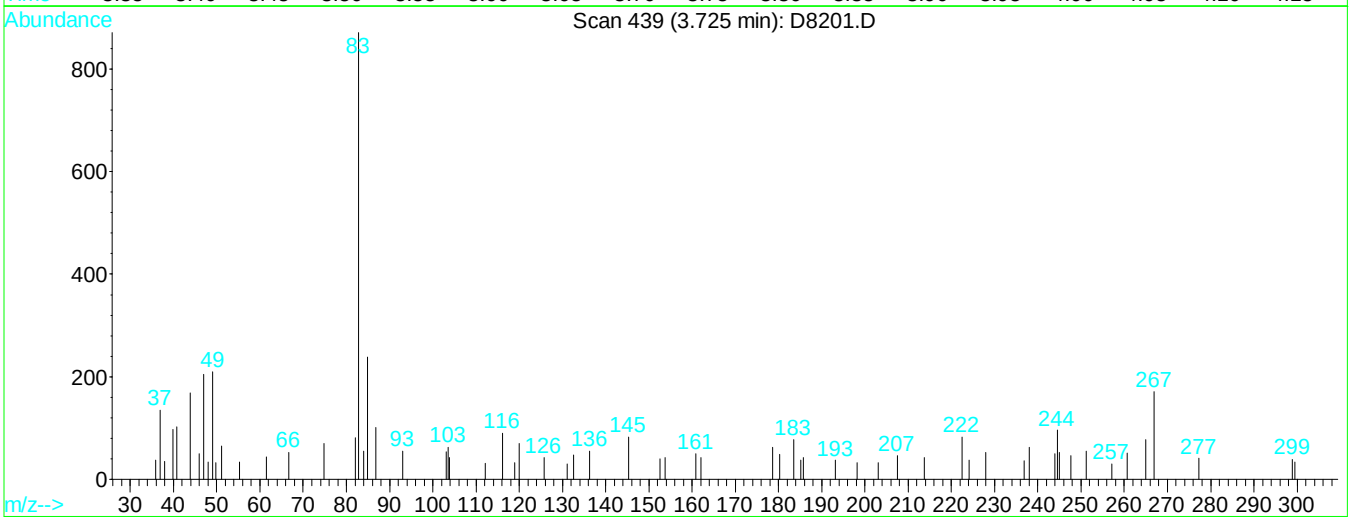


Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8201.D Vial: 15
Acq On : 15 Sep 2017 1:58 pm Operator: D.Lipani
Sample : R1708648-008|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:00 2017 Quant Results File: temp.res

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





TIC: D8201.D

(35) Chloroform (P)

3.73min 0.43ug/L m

response 1652

Ion	Exp%	Act%
83.00	100	100
85.00	63.90	27.44#
47.00	28.10	23.54
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

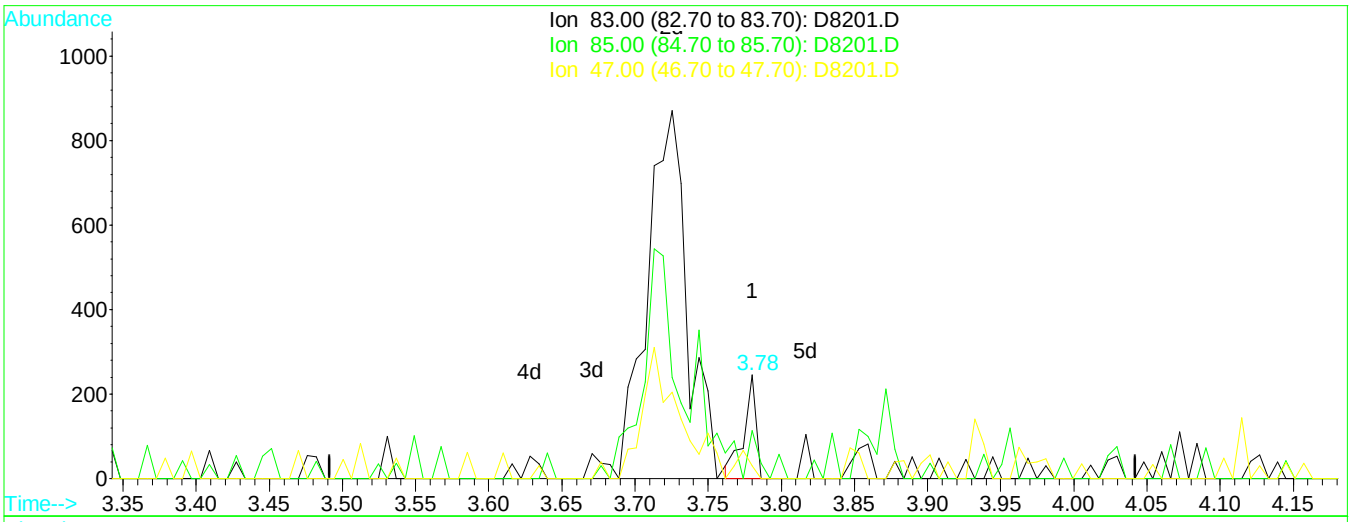
09/18/17

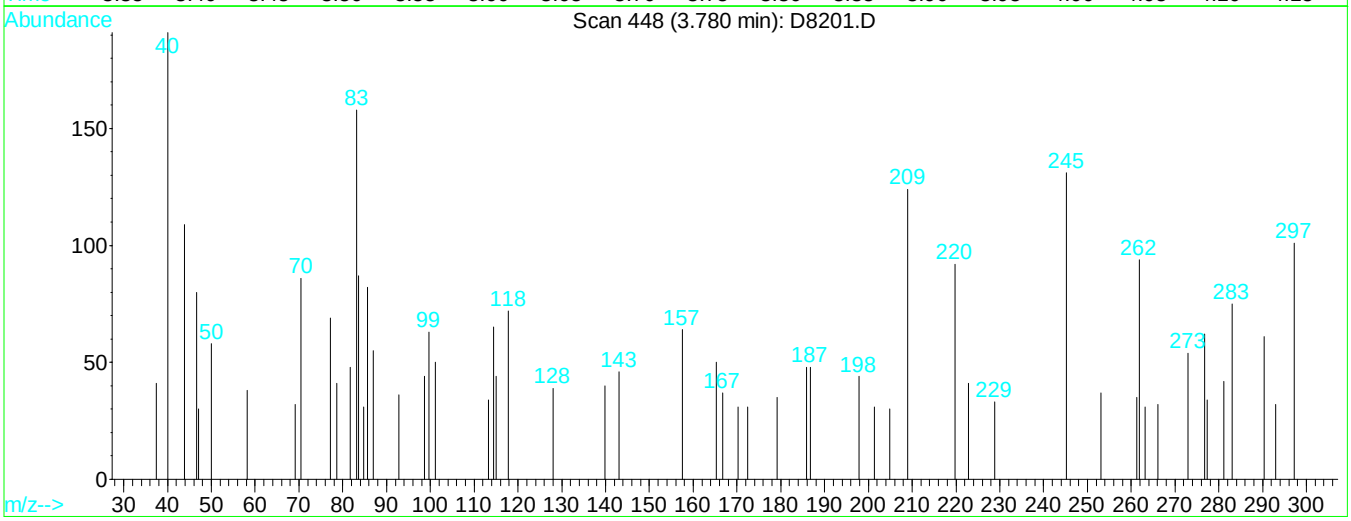
D8201.D W082417.M Mon Sep 18 13:00:26 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8201.D Vial: 15
Acq On : 15 Sep 2017 1:58 pm Operator: D.Lipani
Sample : R1708648-008|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:59 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: D8201.D

(35) Chloroform (P)

3.78min 0.04ug/L

response 139

Ion	Exp%	Act%
83.00	100	100
85.00	63.90	46.12
47.00	28.10	12.24
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8201.D W082417.M Mon Sep 18 13:00:19 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8201.D Vial: 15
Acq On : 15 Sep 2017 1:58 pm Operator: D.Lipani
Sample : R1708648-008|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:01 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	4.60	168	285954	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	384606	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	185035	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	198524	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.87	113	143503	52.02	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.04%			
43) surr1,1,2-dichloroethane-d	4.47	65	154497	51.71	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 103.42%			
65) SURR3,Toluene-d8	7.89	98	436208	56.01	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.02%			
86) SURR2,BFB	10.25	95	177372	51.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.36%			
Target Compounds						Qvalue
14) Acetone	1.86	43	19647	36.70	ug/L	91
18) TBA	2.14	59	914	4.98	ug/L	100
24) Carbon Disulfide	2.31	76	8315	1.38	ug/L	96
35) Chloroform	3.73	83	1652m	0.43	ug/L	
49) Benzene	5.40	78	1509	0.20	ug/L	71
74) Tetrachloroethene	8.63	164	5116	2.32	ug/L	95

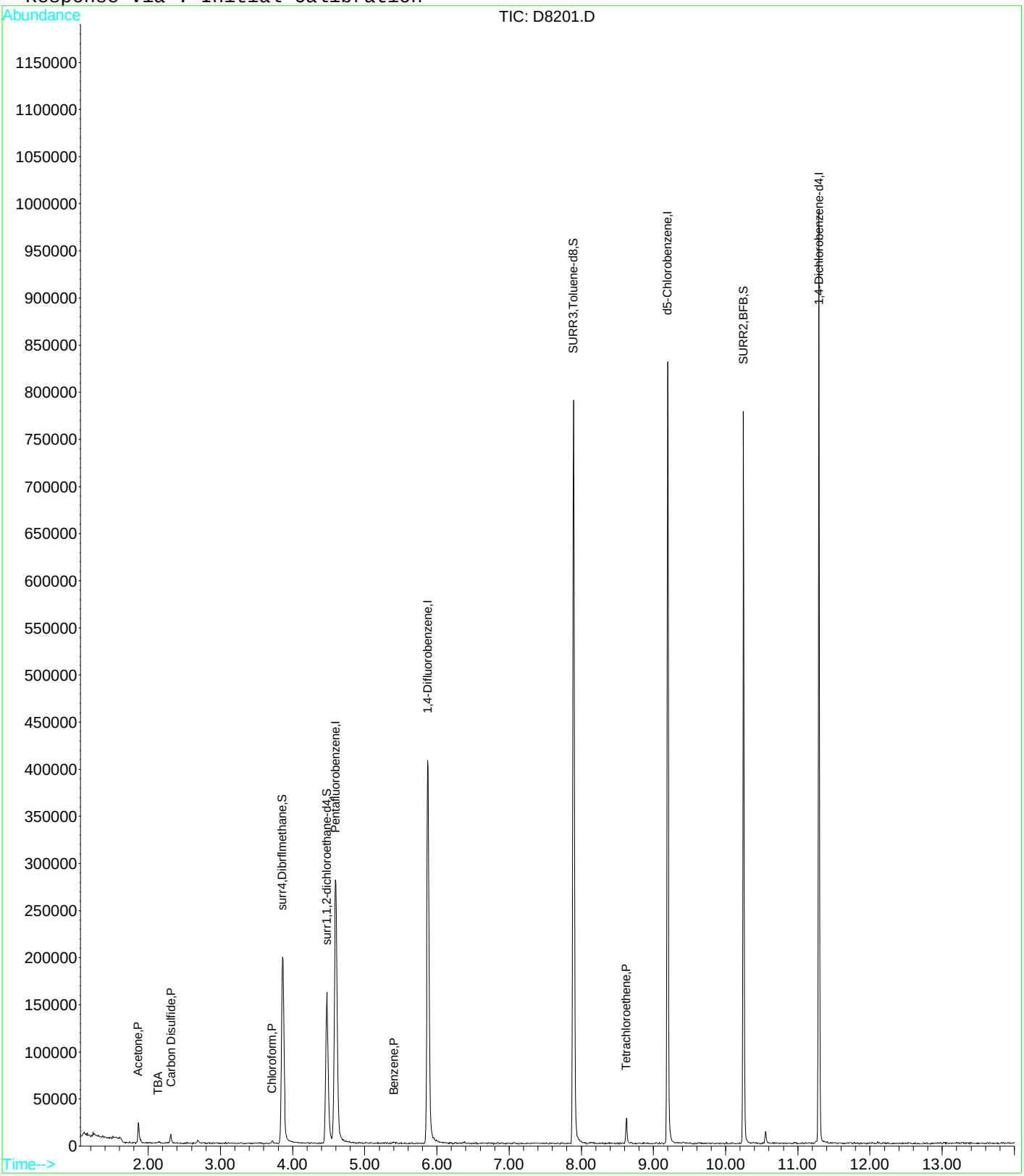
Diluted due to limited volume available

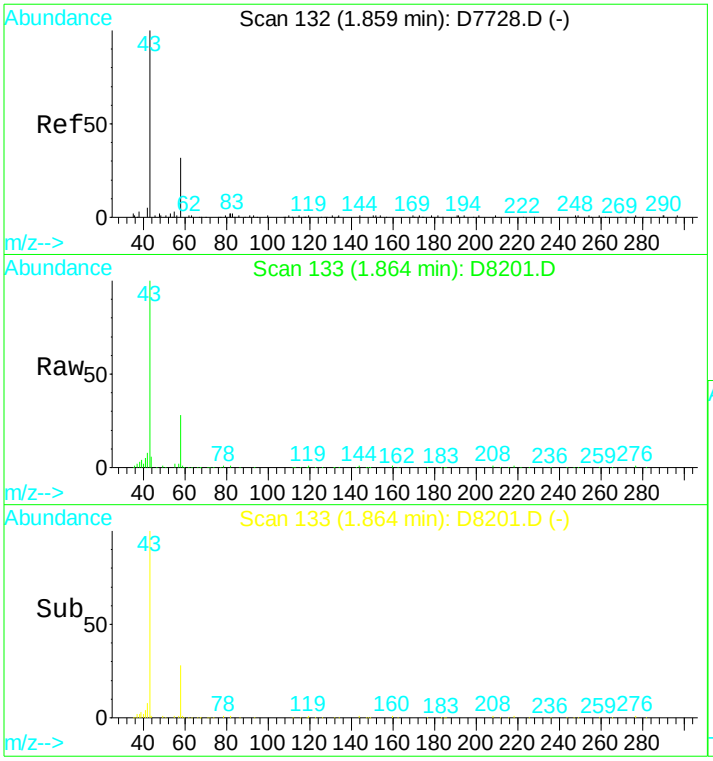
(#) = qualifier out of range (m) = manual integration
D8201.D W082417.M Mon Sep 18 13:02:08 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8201.D Vial: 15
Acq On : 15 Sep 2017 1:58 pm Operator: D.Lipani
Sample : R1708648-008|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:01 2017 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

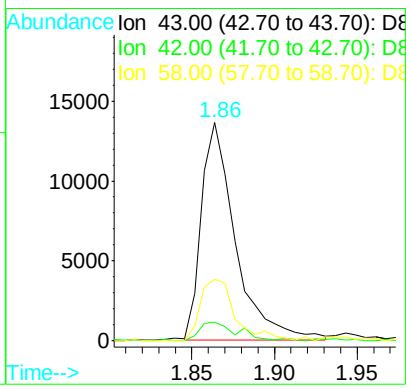


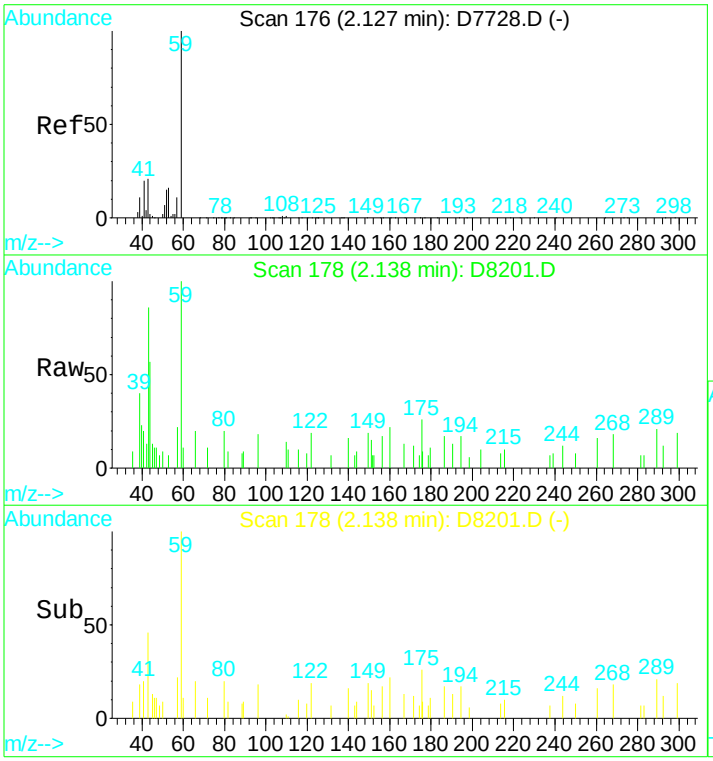


#14
Acetone
Concen: 36.70 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.00 min
Lab File: D8201.D
Acq: 15 Sep 2017 1:58 pm

Tgt Ion: 43 Resp: 19647

Ion	Ratio	Lower	Upper
43	100		
42	8.5	0.0	31.4
58	28.1	3.1	43.1

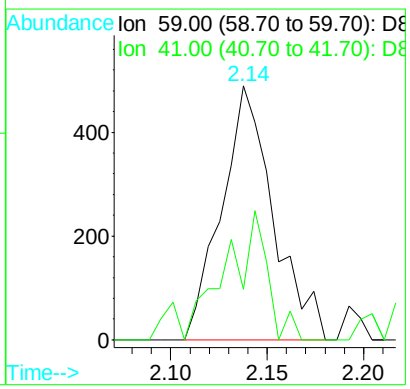




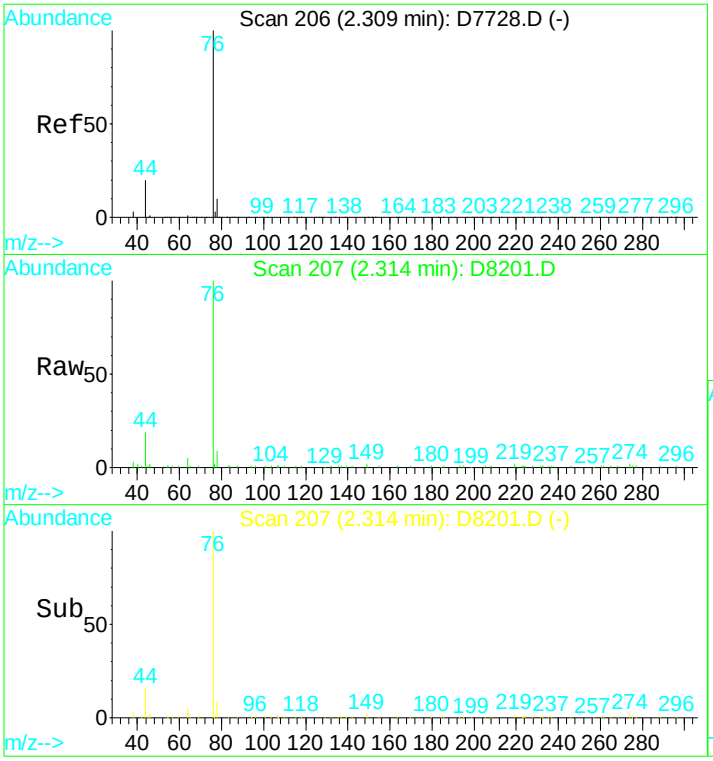
#18
TBA
Concen: 4.98 ug/L
RT: 2.14 min Scan# 178
Delta R.T. 0.01 min
Lab File: D8201.D
Acq: 15 Sep 2017 1:58 pm

Tgt Ion: 59 Resp: 914

Ion	Ratio	Lower	Upper
59	100		
41	19.8	0.0	39.9



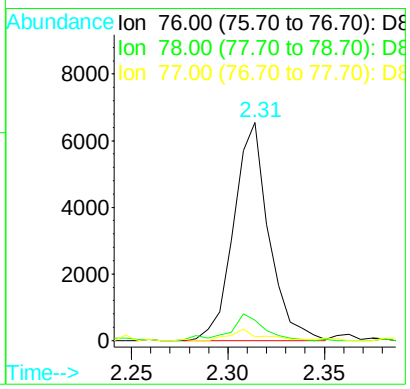
1st DL 09/18/17
2nd BA 09/20/17

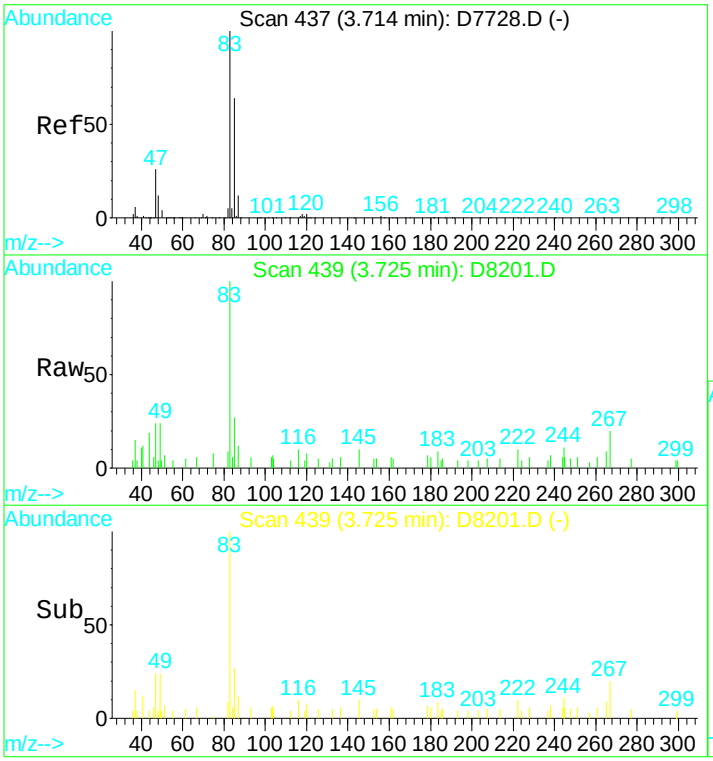


#24
Carbon Disulfide
Concen: 1.38 ug/L
RT: 2.31 min Scan# 207
Delta R.T. 0.01 min
Lab File: D8201.D
Acq: 15 Sep 2017 1:58 pm

Tgt Ion: 76 Resp: 8315

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	30.5
77	1.7	0.0	23.3

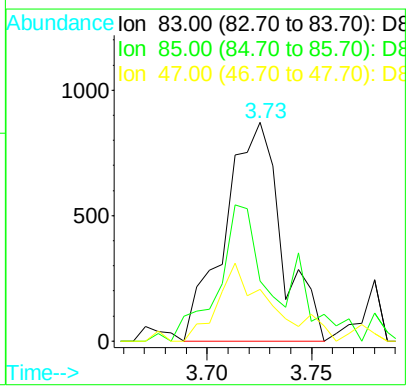


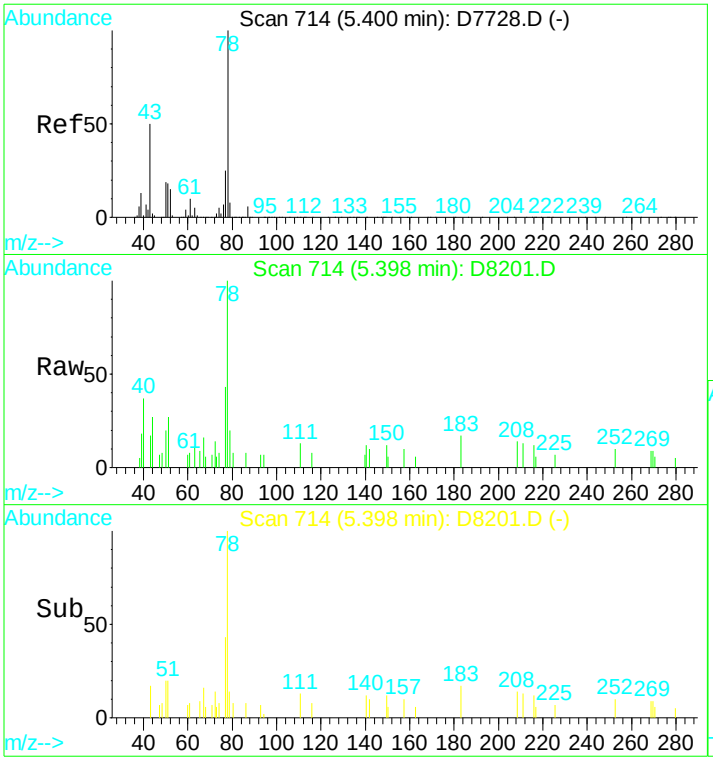


#35
Chloroform
Concen: 0.43 ug/L m
RT: 3.73 min Scan# 439
Delta R.T. 0.01 min
Lab File: D8201.D
Acq: 15 Sep 2017 1:58 pm

Tgt Ion: 83 Resp: 1652

Ion	Ratio	Lower	Upper
83	100		
85	27.4	43.9	83.9#
47	23.5	8.1	48.1

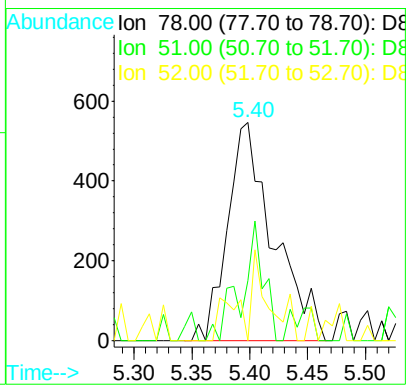


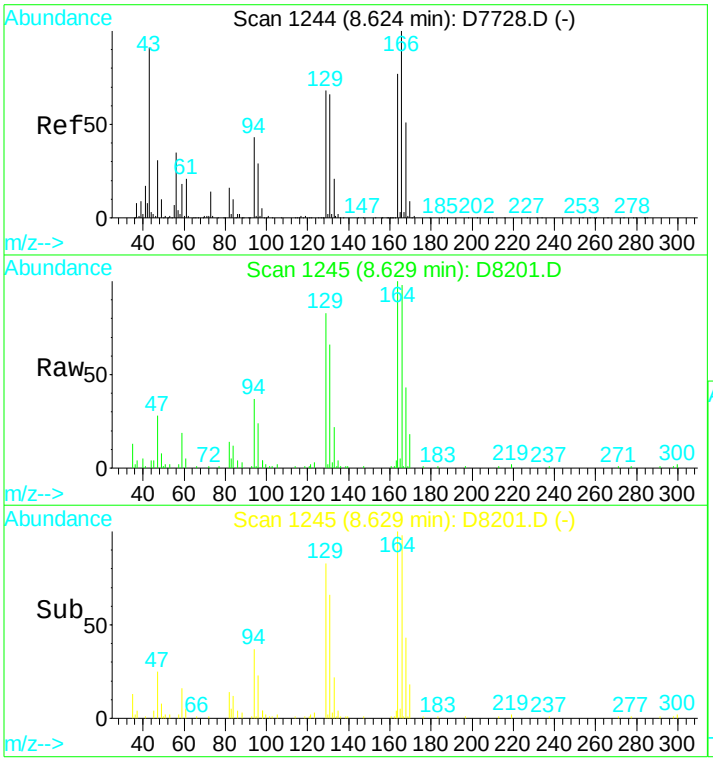


#49
Benzene
Concen: 0.20 ug/L
RT: 5.40 min Scan# 714
Delta R.T. -0.00 min
Lab File: D8201.D
Acq: 15 Sep 2017 1:58 pm

Tgt Ion: 78 Resp: 1509

Ion	Ratio	Lower	Upper
78	100		
51	27.4	0.0	37.8
52	0.0	0.0	35.4

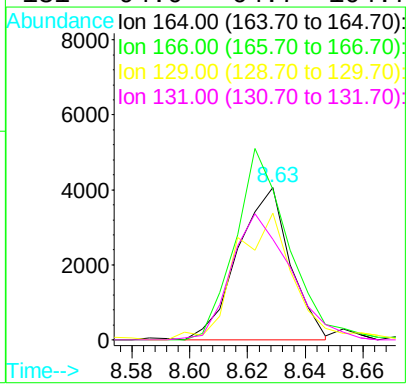




#74
Tetrachloroethene
Concen: 2.32 ug/L
RT: 8.63 min Scan# 1245
Delta R.T. 0.00 min
Lab File: D8201.D
Acq: 15 Sep 2017 1:58 pm

Tgt Ion:164 Resp: 5116

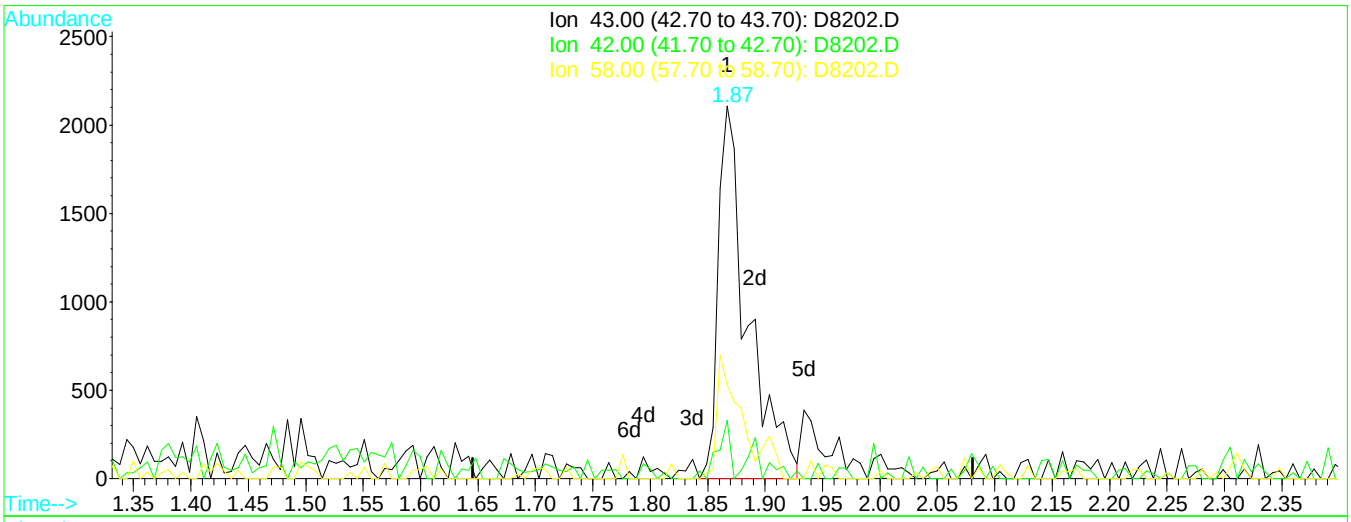
Ion	Ratio	Lower	Upper
164	100		
166	129.1	111.1	151.1
129	92.8	67.3	107.3
131	94.0	64.7	104.7

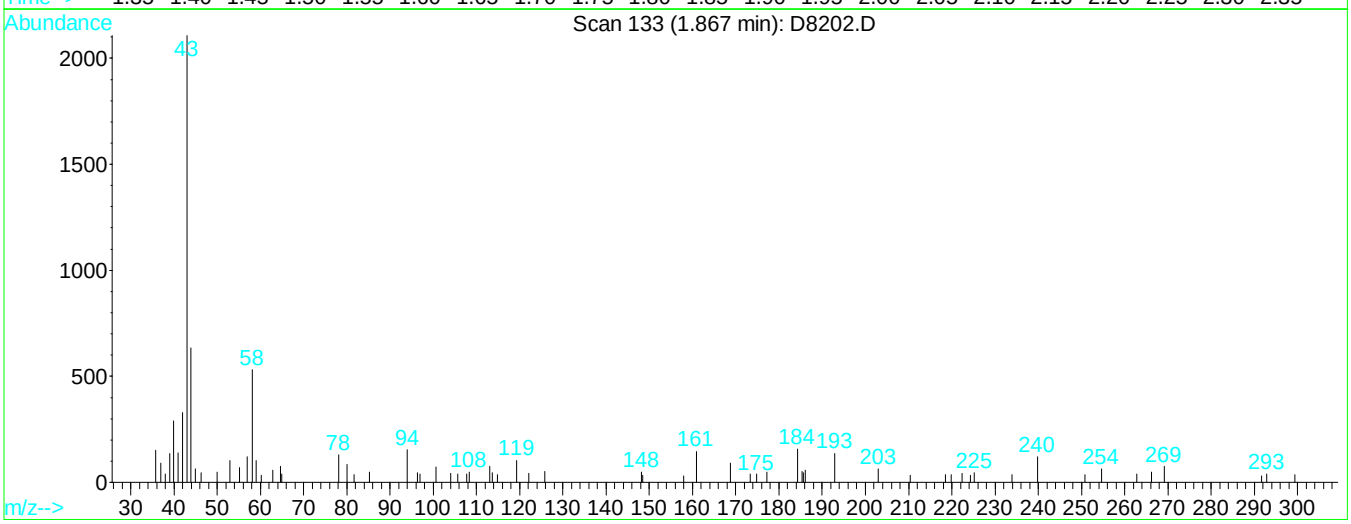


1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8202.D Vial: 16
Acq On : 15 Sep 2017 2:24 pm Operator: D.Lipani
Sample : R1708648-009|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:02 2017 Quant Results File: temp.res

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





TIC: D8202.D

(14) Acetone (P)

1.87min 7.05ug/L m

response 3709

Ion	Exp%	Act%
43.00	100	100
42.00	11.40	15.66
58.00	23.10	25.15
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

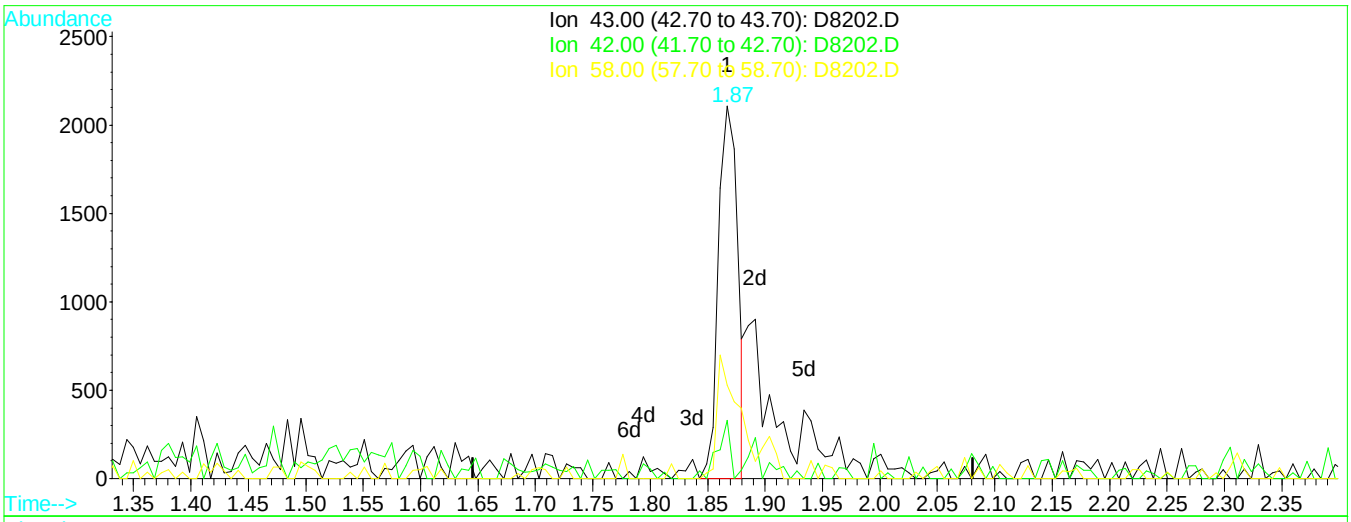
09/18/17

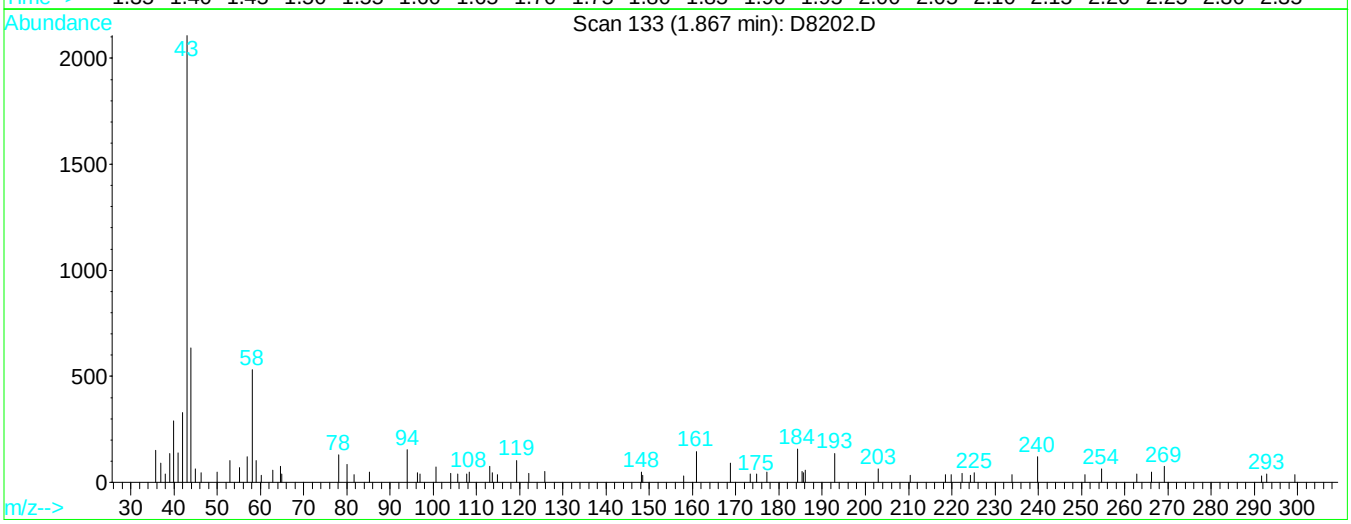
D8202.D W082417.M Mon Sep 18 13:02:51 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8202.D Vial: 16
Acq On : 15 Sep 2017 2:24 pm Operator: D.Lipani
Sample : R1708648-009|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:02 2017 Quant Results File: temp.res

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





TIC: D8202.D

(14) Acetone (P)

1.87min 4.70ug/L

response 2474

Ion	Exp%	Act%
43.00	100	100
42.00	11.40	15.66
58.00	23.10	25.15
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8202.D W082417.M Mon Sep 18 13:02:43 2017

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8202.D Vial: 16
Acq On : 15 Sep 2017 2:24 pm Operator: D.Lipani
Sample : R1708648-009|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:04 2017 Quant Results File: W082417.RES

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

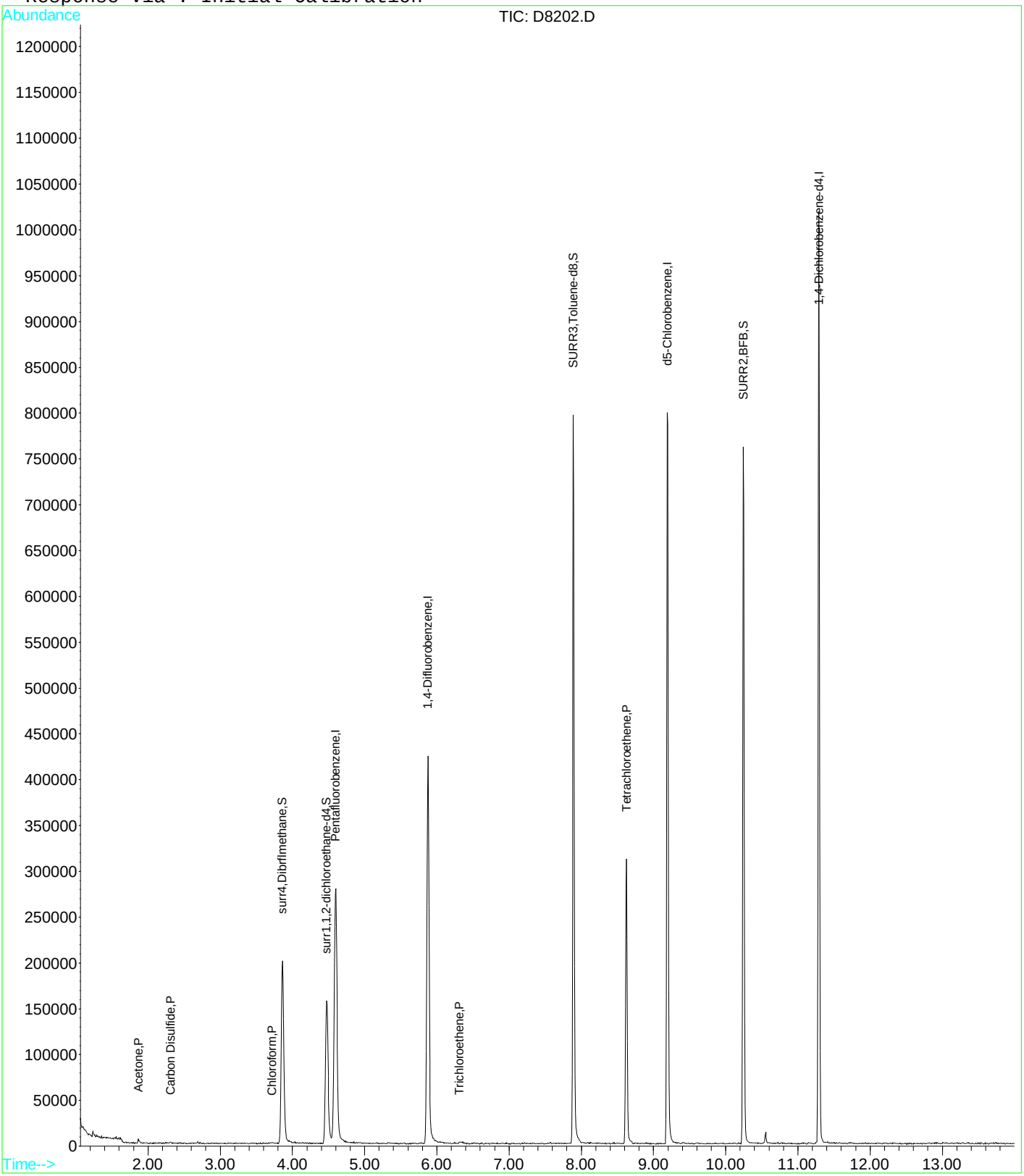
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	281036	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	392847	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	186712	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	198799	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	140643	49.92	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.84%			
43) surr1,1,2-dichloroethane-d	4.48	65	148741	48.74	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.48%			
65) SURR3,Toluene-d8	7.89	98	432027	54.31	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.62%			
86) SURR2,BFB	10.24	95	176673	50.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.04%			
Target Compounds						Qvalue
14) Acetone	1.87	43	3709m	7.05	ug/L	
24) Carbon Disulfide	2.31	76	1564	0.26	ug/L	85
35) Chloroform	3.71	83	768	0.20	ug/L #	51
54) Trichloroethene	6.32	130	977	0.38	ug/L #	61
74) Tetrachloroethene	8.63	164	57951	26.00	ug/L	99

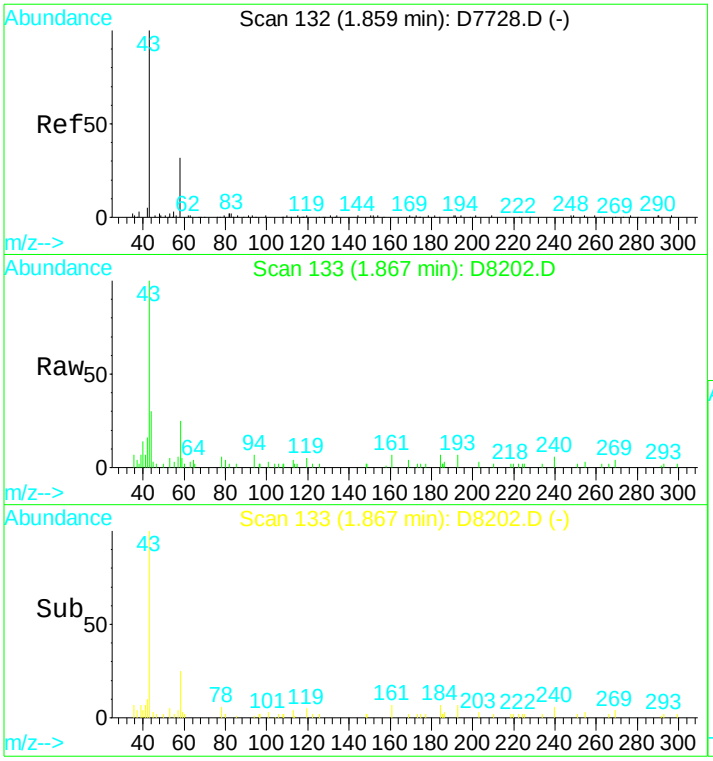
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8202.D Vial: 16
Acq On : 15 Sep 2017 2:24 pm Operator: D.Lipani
Sample : R1708648-009|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:04 2017 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

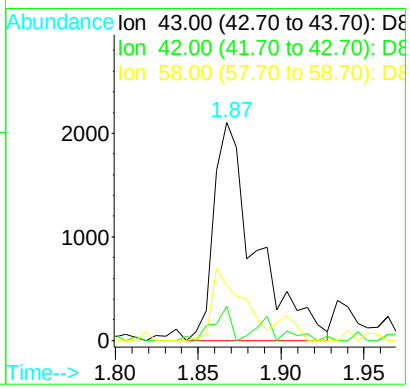


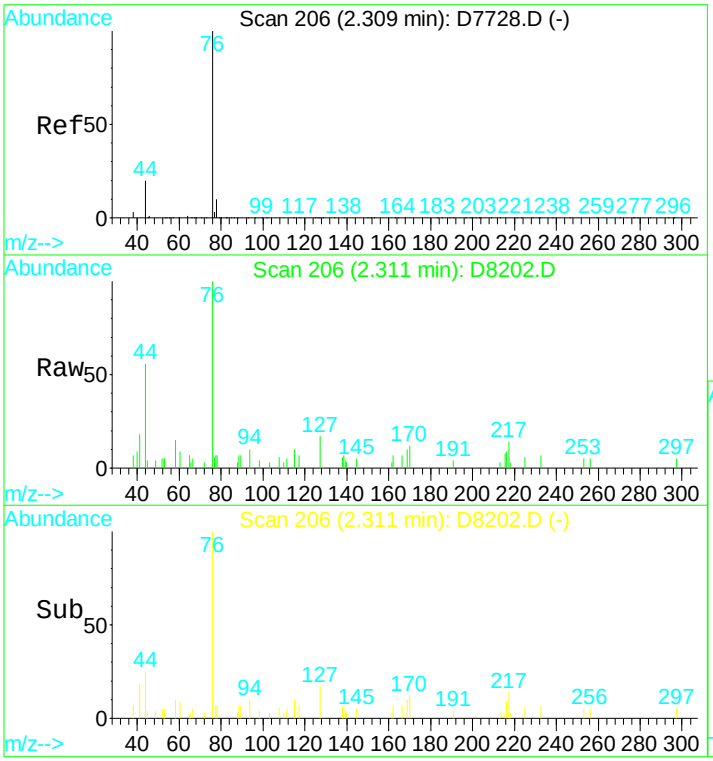


#14
Acetone
Concen: 7.05 ug/L m
RT: 1.87 min Scan# 133
Delta R.T. 0.01 min
Lab File: D8202.D
Acq: 15 Sep 2017 2:24 pm

Tgt Ion: 43 Resp: 3709

Ion	Ratio	Lower	Upper
43	100		
42	15.7	0.0	31.4
58	25.2	3.1	43.1

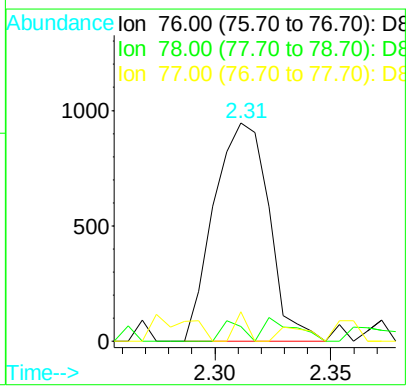


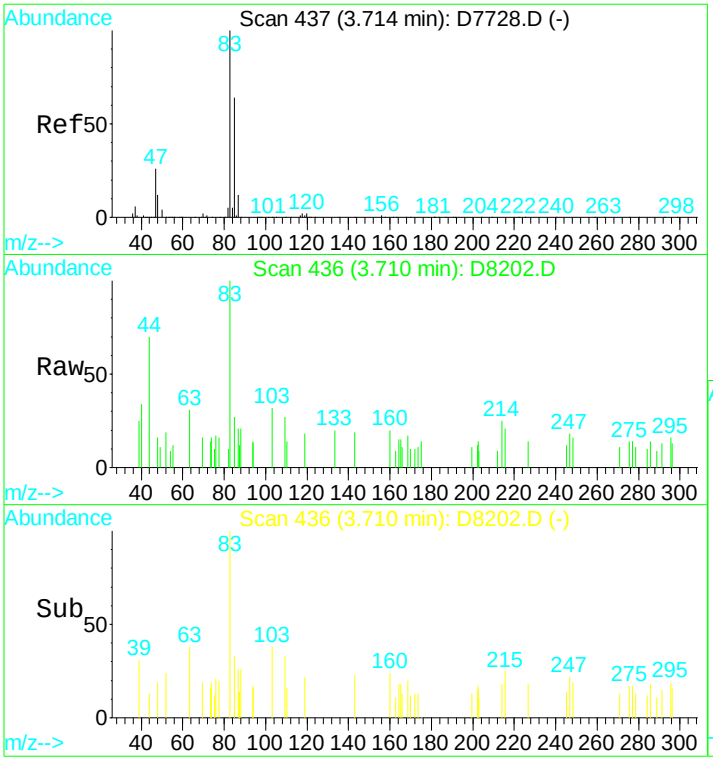


#24
Carbon Disulfide
Concen: 0.26 ug/L
RT: 2.31 min Scan# 206
Delta R.T. 0.00 min
Lab File: D8202.D
Acq: 15 Sep 2017 2:24 pm

Tgt Ion: 76 Resp: 1564

Ion	Ratio	Lower	Upper
76	100		
78	6.9	0.0	30.5
77	13.4	0.0	23.3

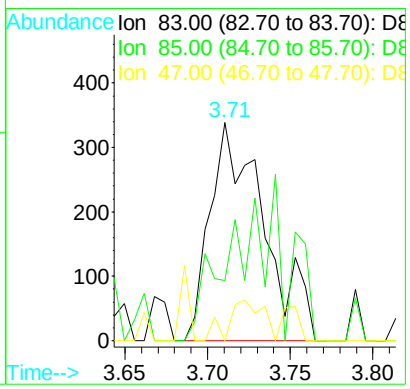


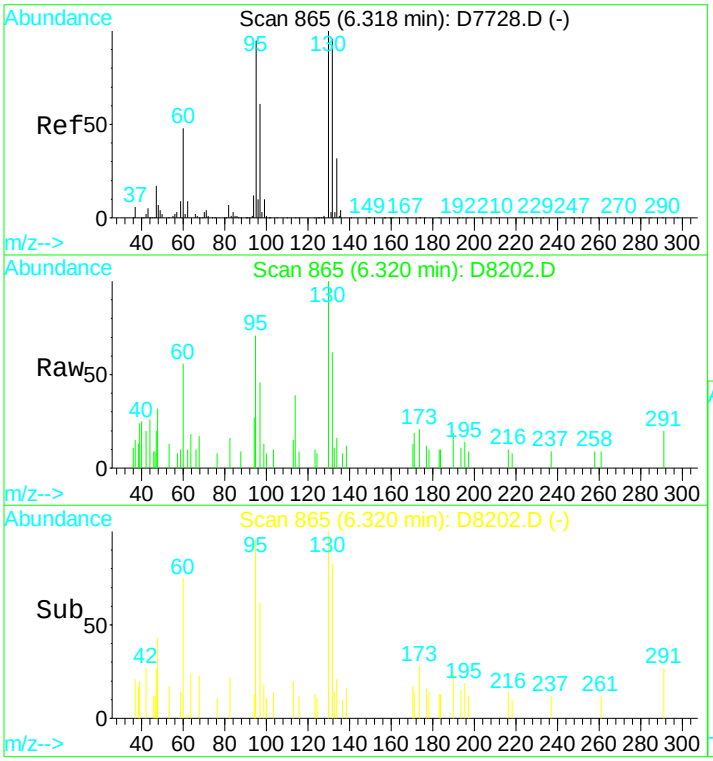


#35
Chloroform
Concen: 0.20 ug/L
RT: 3.71 min Scan# 436
Delta R.T. -0.00 min
Lab File: D8202.D
Acq: 15 Sep 2017 2:24 pm

Tgt Ion: 83 Resp: 768

Ion	Ratio	Lower	Upper
83	100		
85	27.4	43.9	83.9#
47	0.0	8.1	48.1#

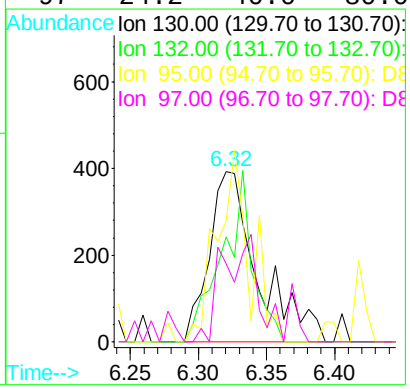




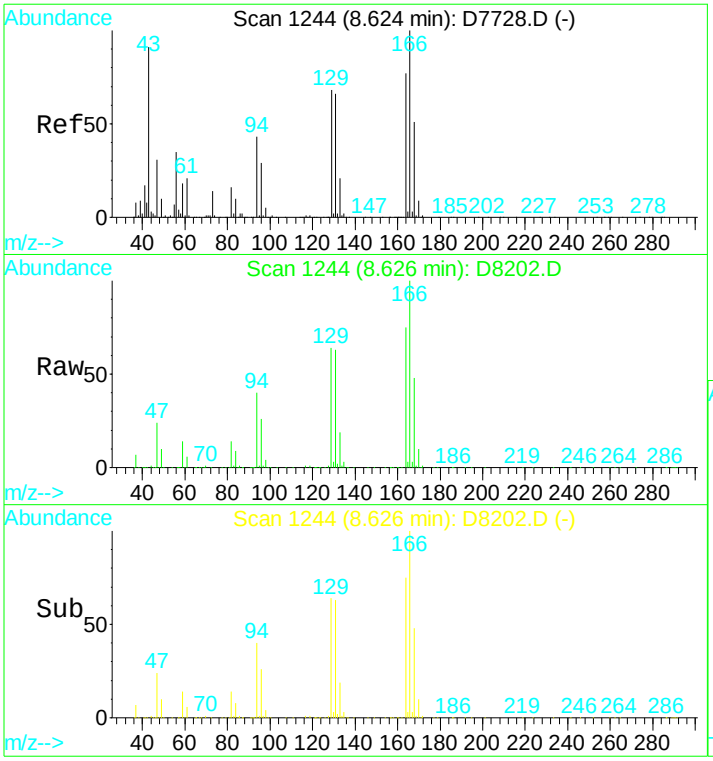
#54
Trichloroethene
Concen: 0.38 ug/L
RT: 6.32 min Scan# 865
Delta R.T. 0.00 min
Lab File: D8202.D
Acq: 15 Sep 2017 2:24 pm

Tgt Ion:130 Resp: 977

Ion	Ratio	Lower	Upper
130	100		
132	62.6	75.8	115.8#
95	54.5	72.3	112.3#
97	24.2	40.0	80.0#



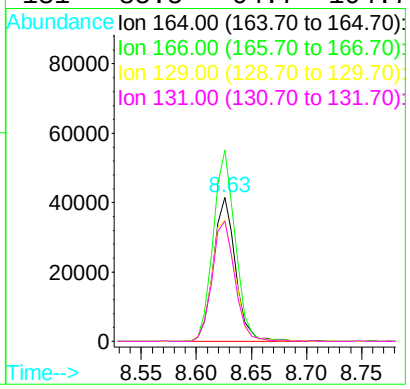
1st DL 09/18/17
2nd BA 09/20/17



#74
Tetrachloroethene
Concen: 26.00 ug/L
RT: 8.63 min Scan# 1244
Delta R.T. 0.00 min
Lab File: D8202.D
Acq: 15 Sep 2017 2:24 pm

Tgt Ion:164 Resp: 57951

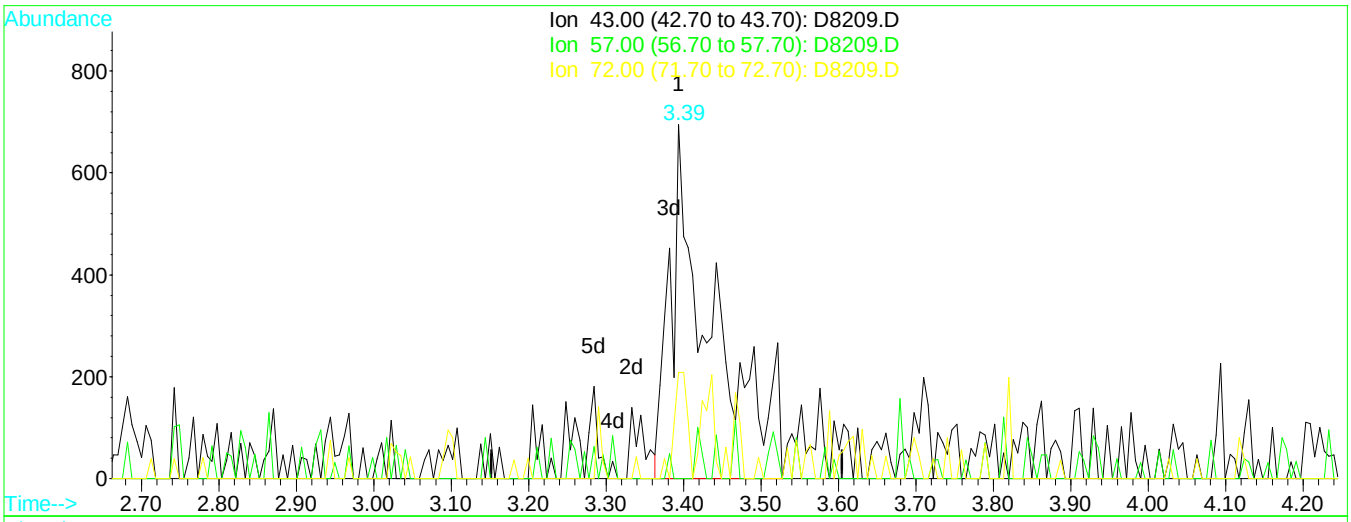
Ion	Ratio	Lower	Upper
164	100		
166	132.8	111.1	151.1
129	89.0	67.3	107.3
131	85.5	64.7	104.7

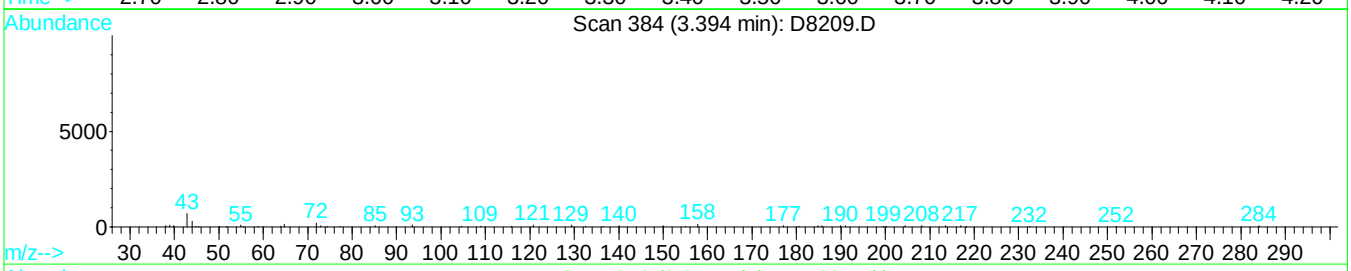


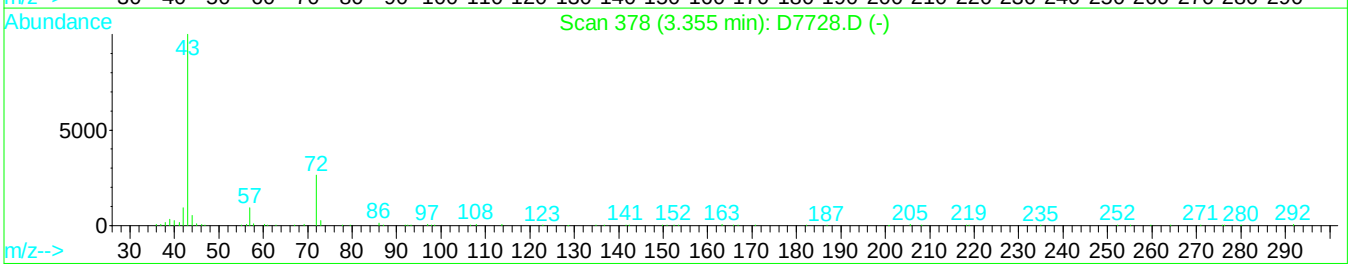
1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:26 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: D8209.D

(31) 2-Butanone (P)

3.39min 3.64ug/L m

response 2594

Ion	Exp%	Act%
43.00	100	100
57.00	9.40	0.00
72.00	25.60	30.07
0.00	0.00	0.00

Manual Integration:

After

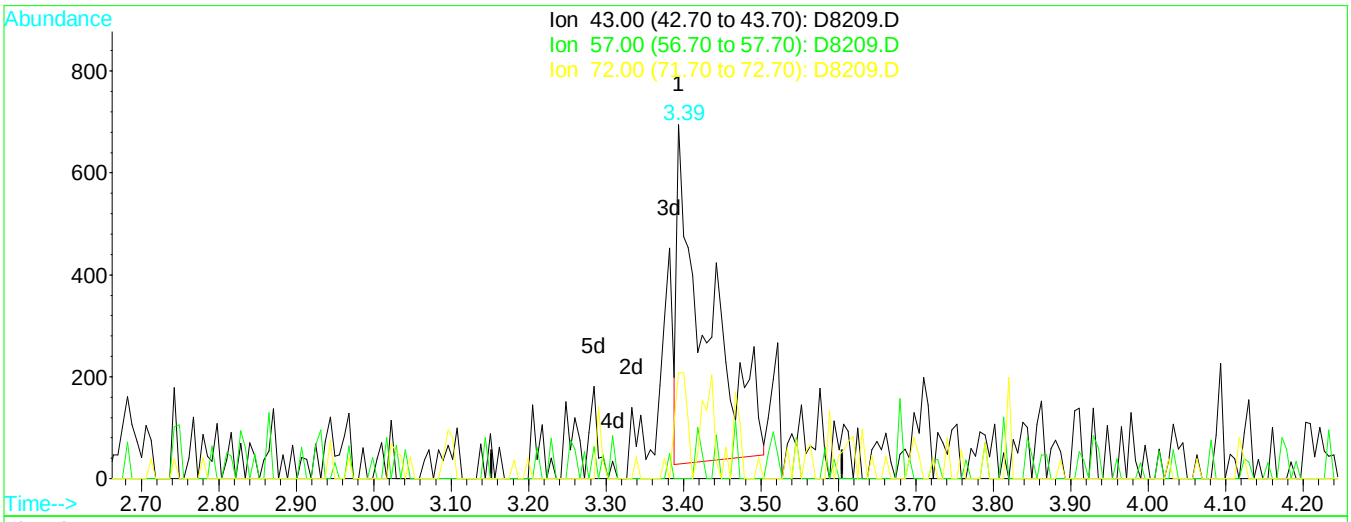
Split Peak.

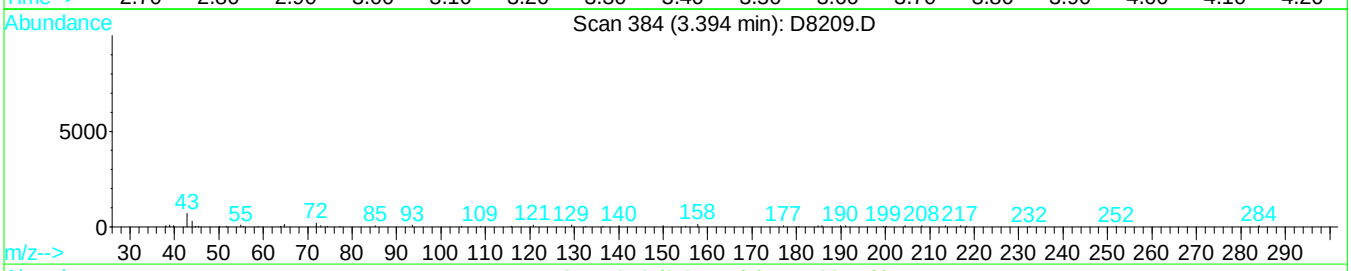
09/18/17

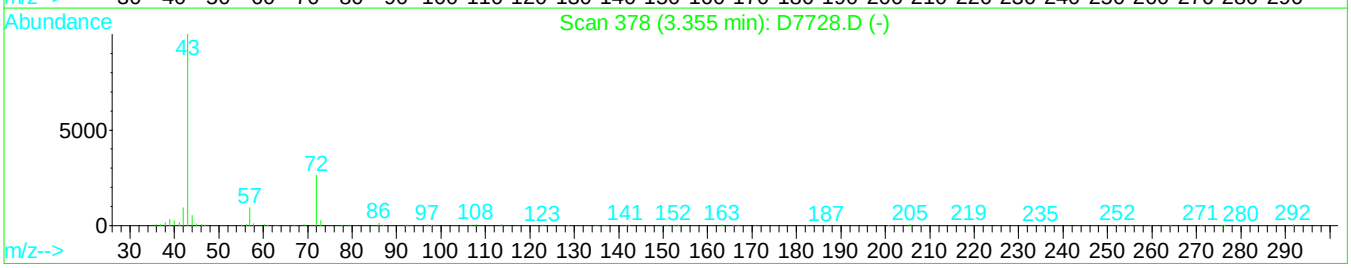
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:26 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: D8209.D

(31) 2-Butanone (P)

3.39min 2.39ug/L

response 1707

Ion	Exp%	Act%
43.00	100	100
57.00	9.40	0.00
72.00	25.60	30.07
0.00	0.00	0.00

Manual Integration:

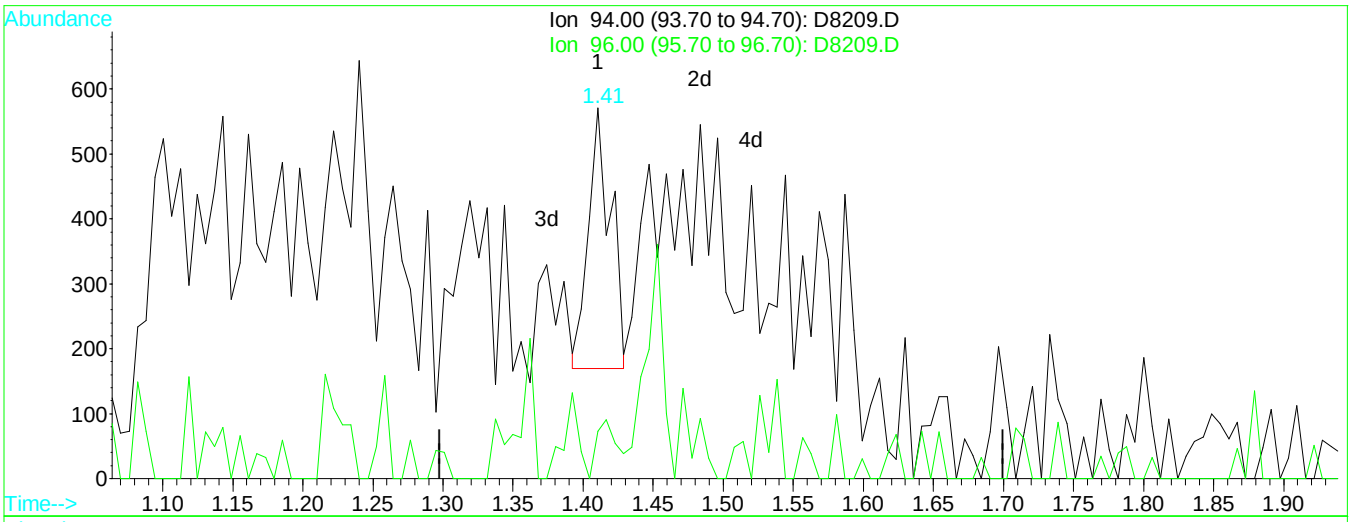
Before

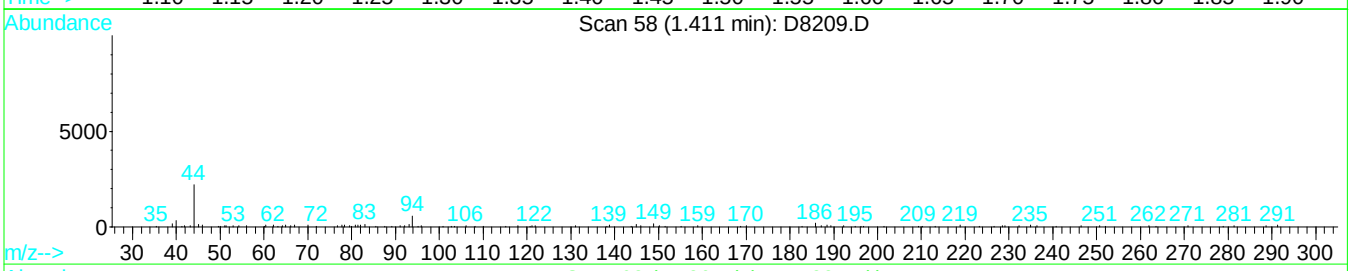
09/18/17

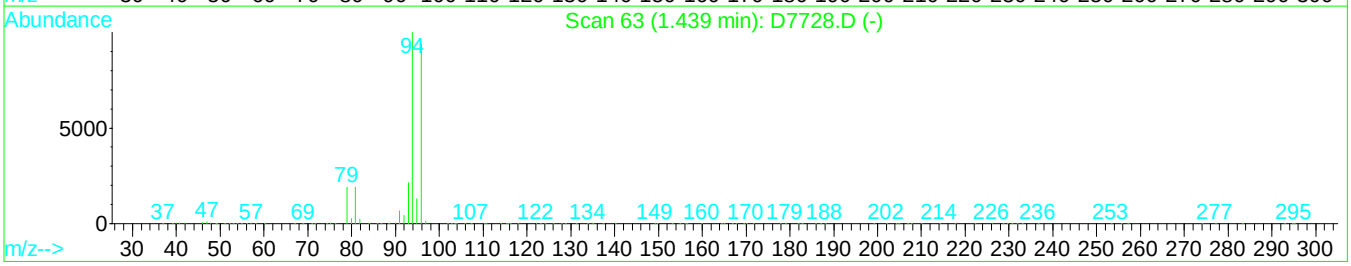
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:25 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: D8209.D

(5) Bromomethane (P)

1.41min 0.21ug/L m

response 446

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	12.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

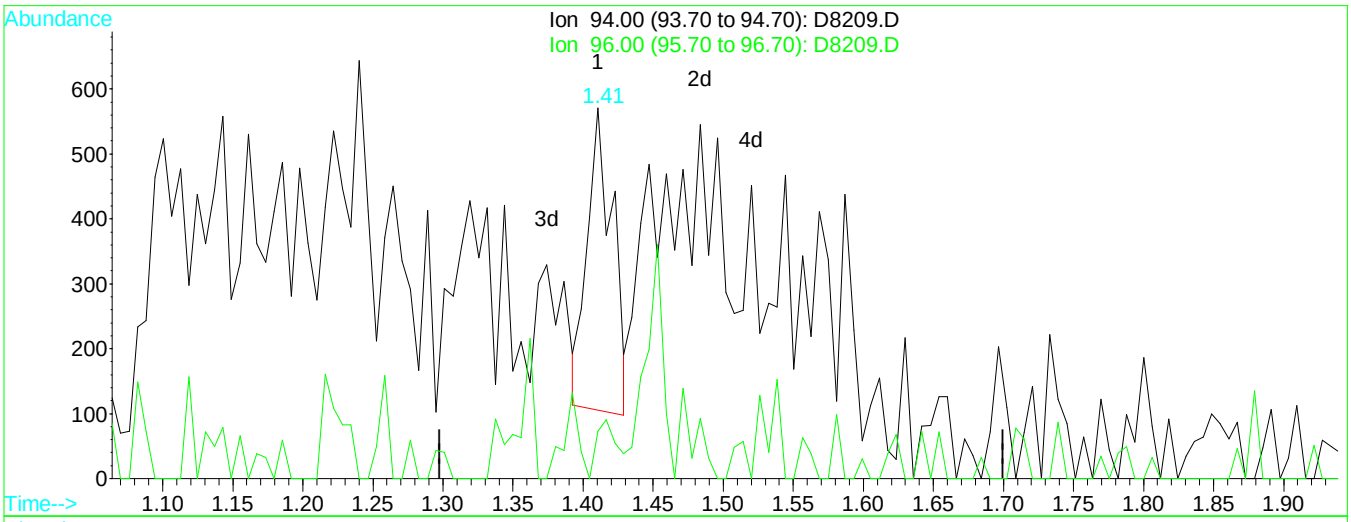
Poor integration.

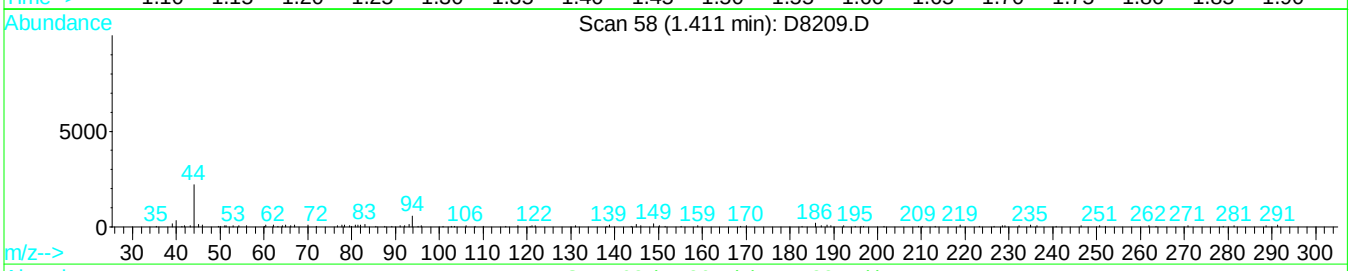
09/18/17

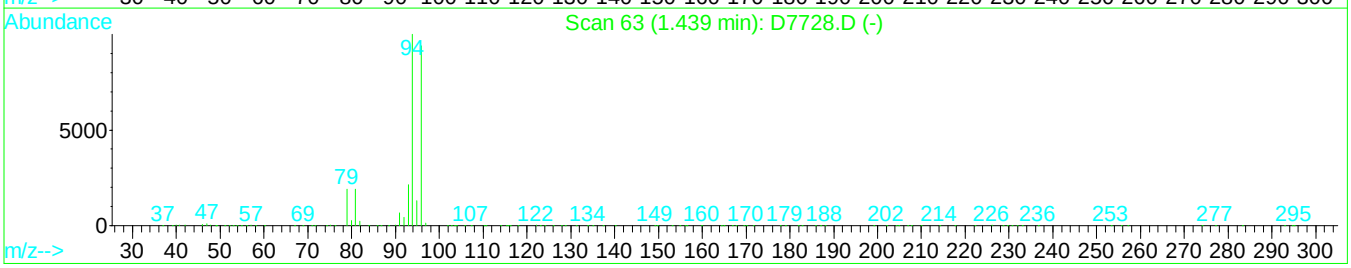
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 17:46 2017 Quant Results File: temp.res

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







TIC: D8209.D

(5) Bromomethane (P)

1.41min 0.28ug/L

response 587

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	12.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

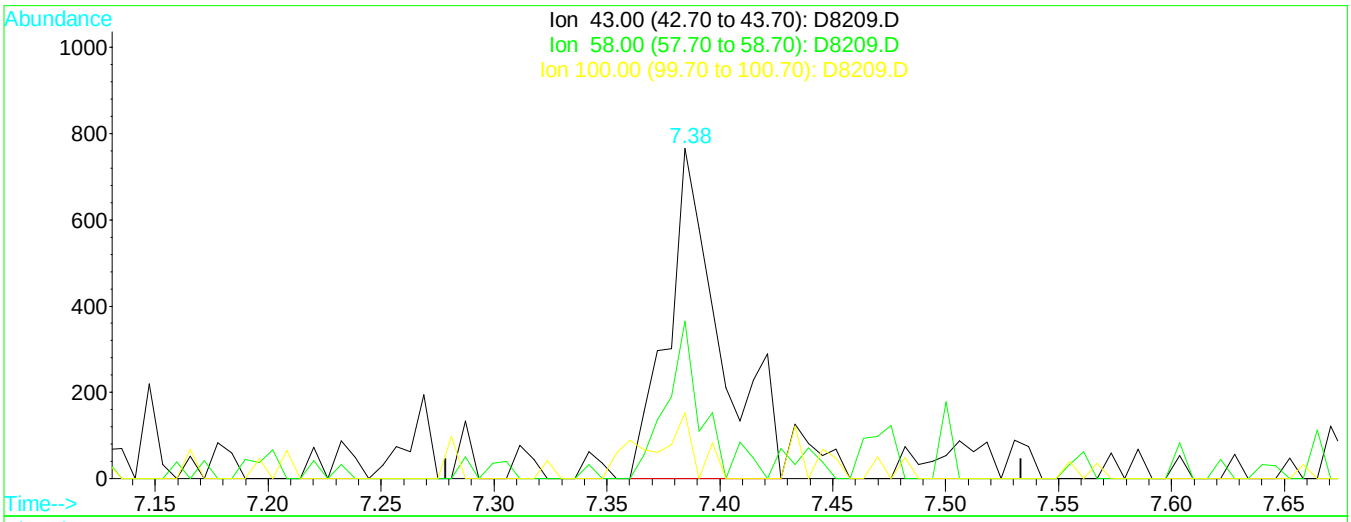
Before

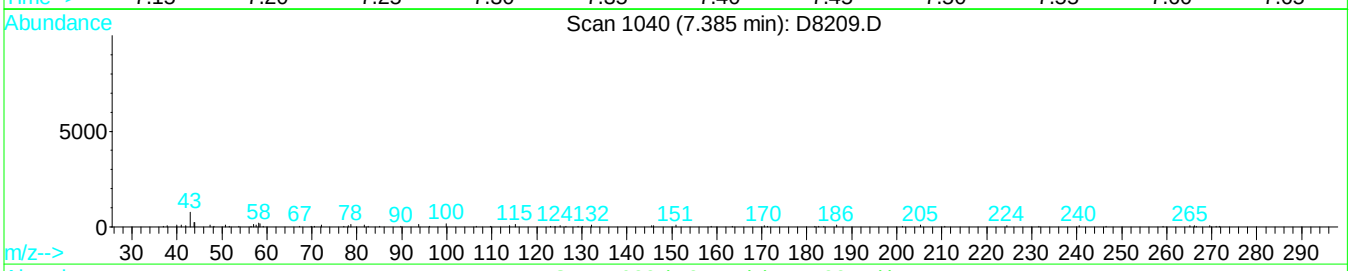
09/18/17

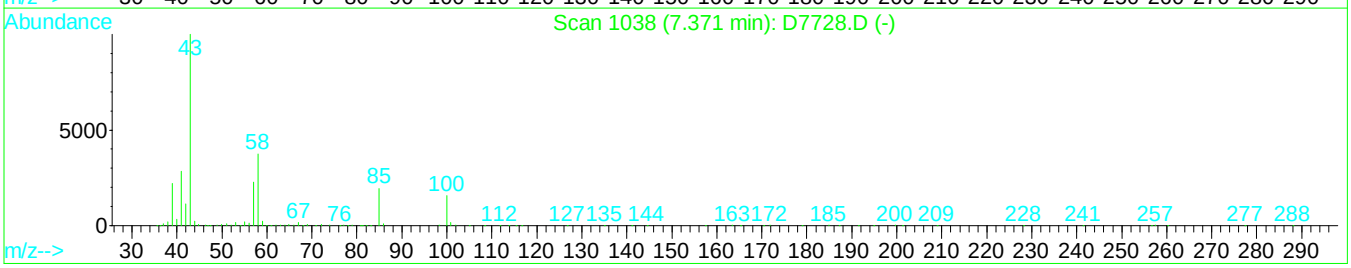
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:28 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: D8209.D

(62) 4-Methyl-2-pentanone (P)

7.38min 0.69ug/L m

response 1226

Ion	Exp%	Act%
43.00	100	100
58.00	37.10	0.00#
100.00	15.20	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

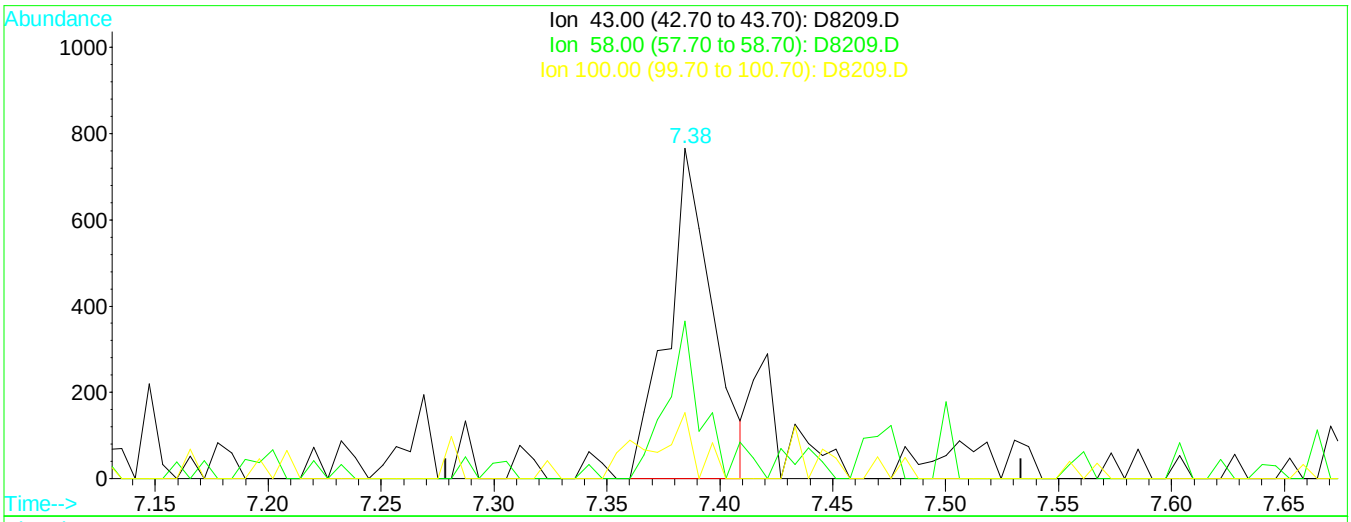
09/18/17

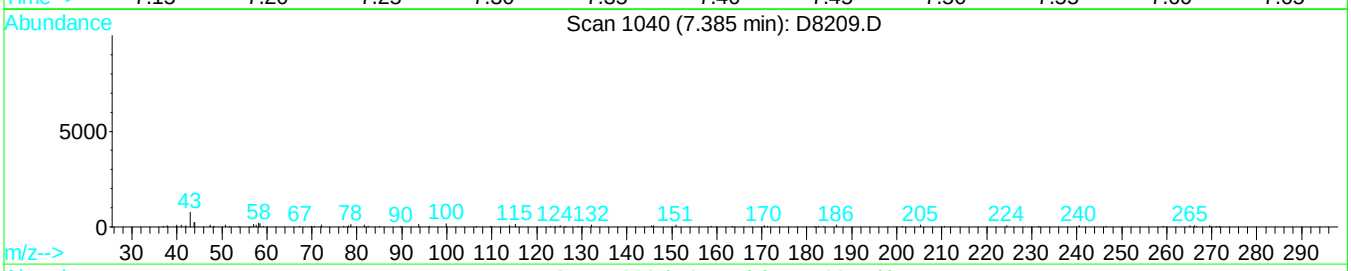
D8209.D W082417.M Mon Sep 18 13:28:04 2017

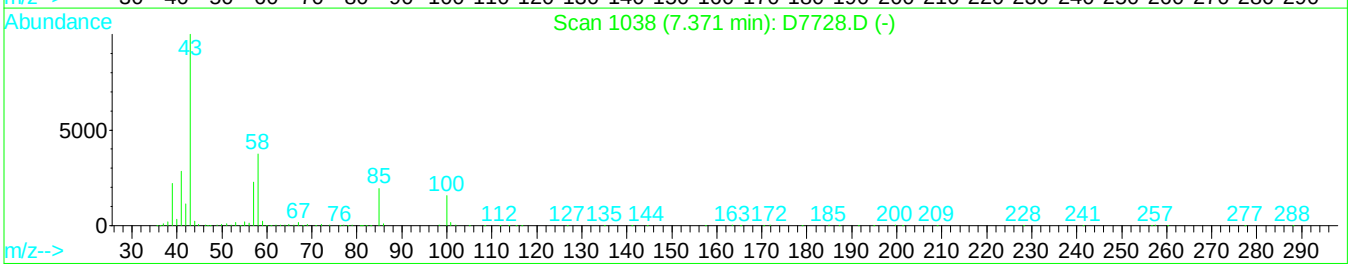
1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:27 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: D8209.D

(62) 4-Methyl-2-pentanone (P)

7.38min 0.59ug/L

response 1037

Ion	Exp%	Act%
43.00	100	100
58.00	37.10	0.00#
100.00	15.20	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:28 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	284073	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	394846	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	183327	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	201004	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	140153	49.49	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.98%			
43) surr1,1,2-dichloroethane-d	4.47	65	150244	48.98	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.96%			
65) SURR3,Toluene-d8	7.89	98	438560	54.85	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.70%			
86) SURR2,BFB	10.24	95	169737	49.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.86%			
Target Compounds						Qvalue
5) Bromomethane	1.41	94	446m	0.21	ug/L	
14) Acetone	1.86	43	9291	17.47	ug/L	90
31) 2-Butanone	3.39	43	2594m	3.64	ug/L	
62) 4-Methyl-2-pentanone	7.38	43	1226m	0.69	ug/L	

foamy sample

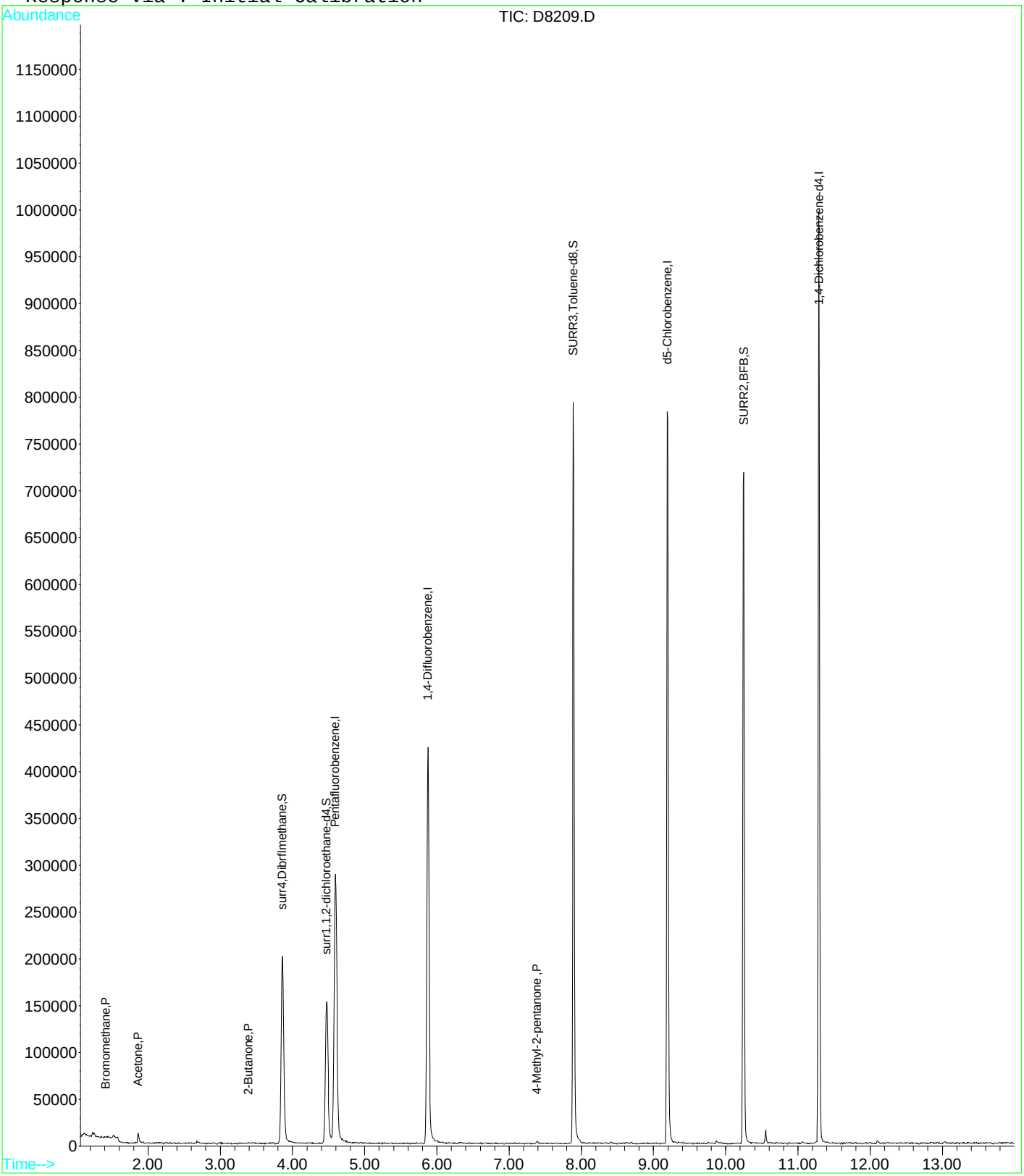
Diluted due to dark purple matrix

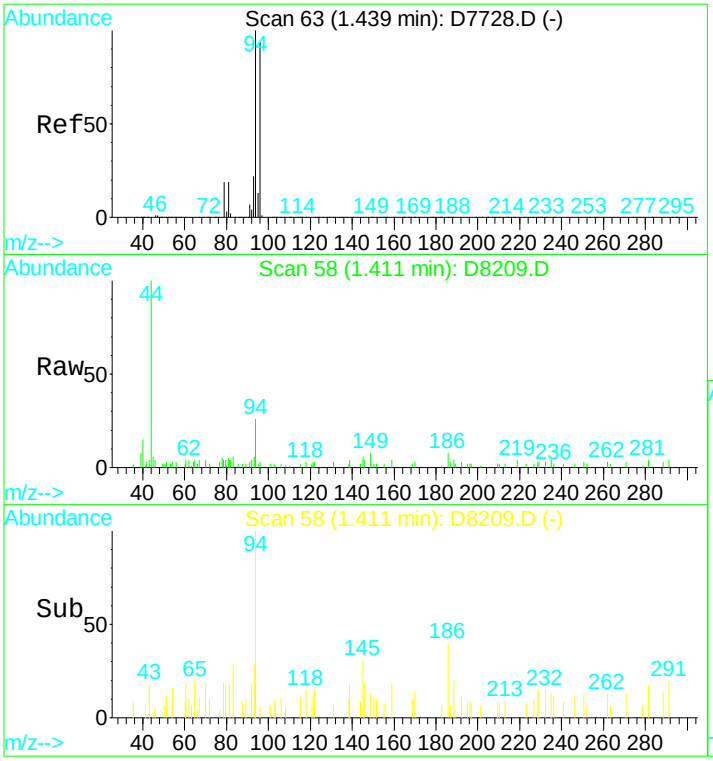
(#) = qualifier out of range (m) = manual integration
D8209.D W082417.M Mon Sep 18 13:28:58 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D Vial: 23
Acq On : 15 Sep 2017 5:28 pm Operator: D.Lipani
Sample : R1708648-010|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:28 2017 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

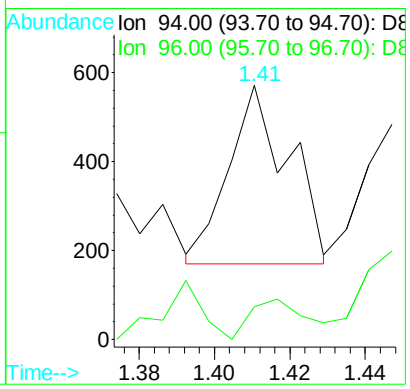


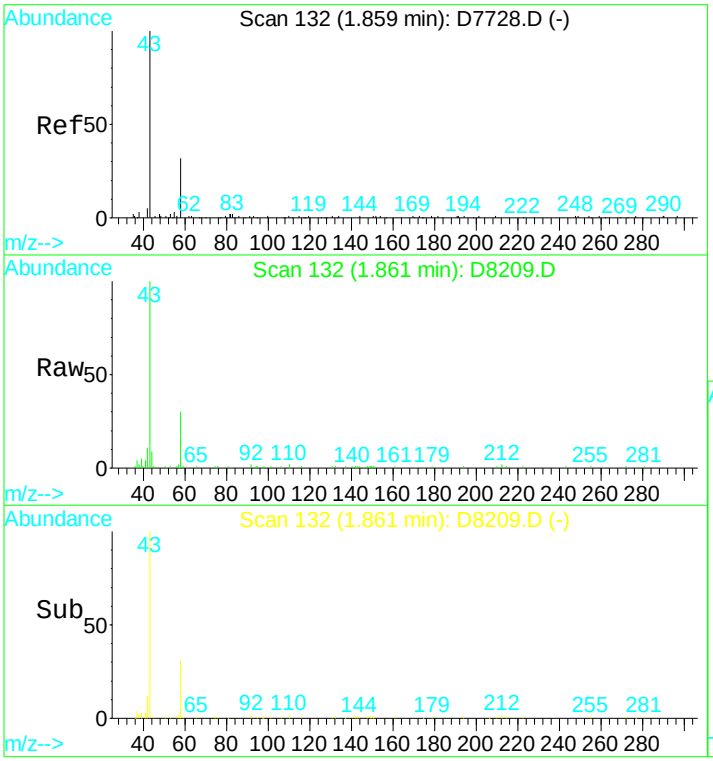


#5
Bromomethane
Concen: 0.21 ug/L m
RT: 1.41 min Scan# 58
Delta R.T. -0.03 min
Lab File: D8209.D
Acq: 15 Sep 2017 5:28 pm

Tgt Ion: 94 Resp: 446

Ion	Ratio	Lower	Upper
94	100		
96	12.8	73.7	113.7#

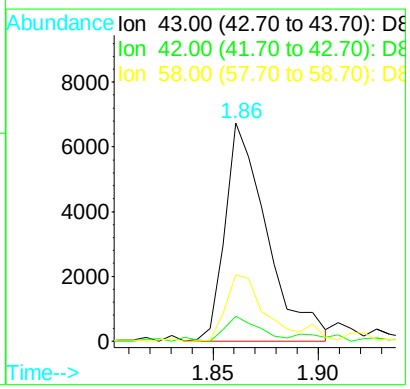


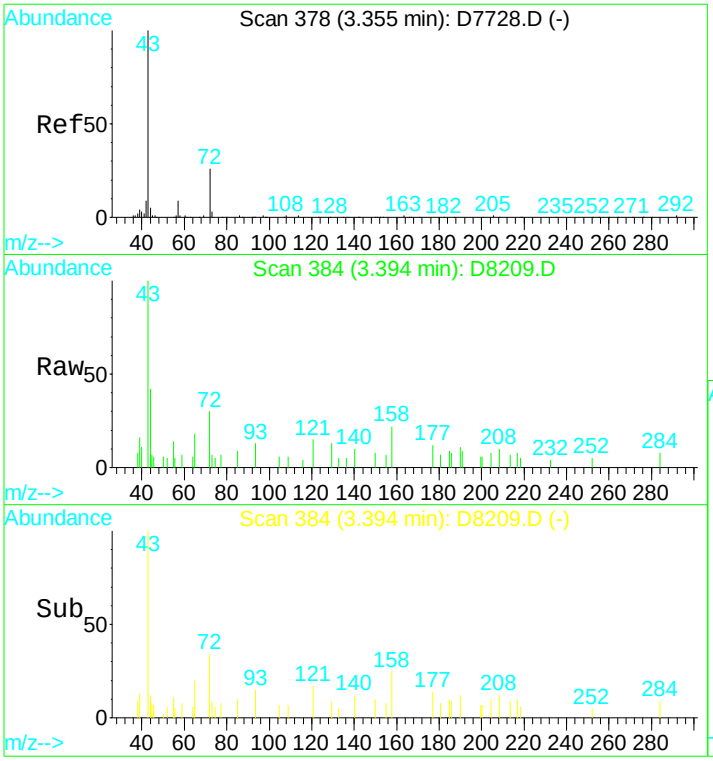


#14
Acetone
Concen: 17.47 ug/L
RT: 1.86 min Scan# 132
Delta R.T. 0.00 min
Lab File: D8209.D
Acq: 15 Sep 2017 5:28 pm

Tgt Ion: 43 Resp: 9291

Ion	Ratio	Lower	Upper
43	100		
42	11.5	0.0	31.4
58	30.3	3.1	43.1

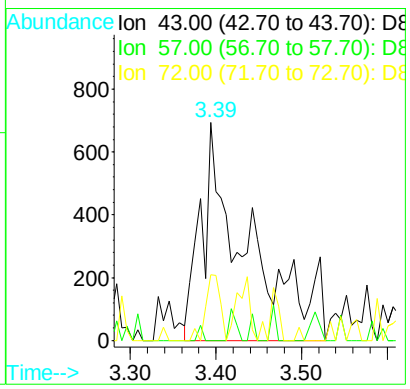


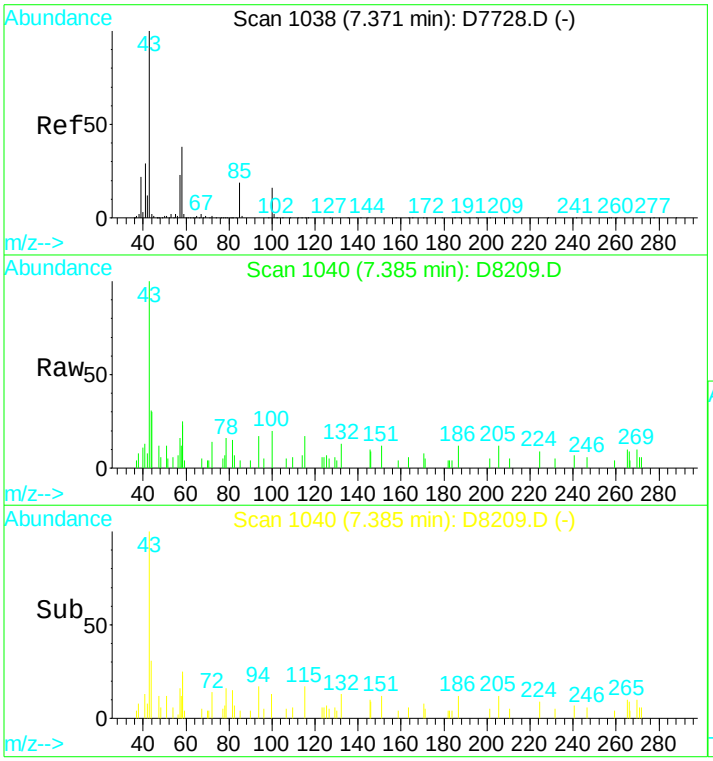


#31
2-Butanone
Concen: 3.64 ug/L m
RT: 3.39 min Scan# 384
Delta R.T. 0.04 min
Lab File: D8209.D
Acq: 15 Sep 2017 5:28 pm

Tgt Ion: 43 Resp: 2594

Ion	Ratio	Lower	Upper
43	100		
57	0.0	0.0	29.4
72	30.1	5.6	45.6

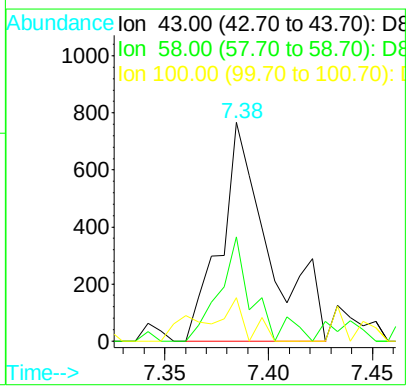




#62
4-Methyl-2-pentanone
Concen: 0.69 ug/L m
RT: 7.38 min Scan# 1040
Delta R.T. 0.01 min
Lab File: D8209.D
Acq: 15 Sep 2017 5:28 pm

Tgt Ion: 43 Resp: 1226

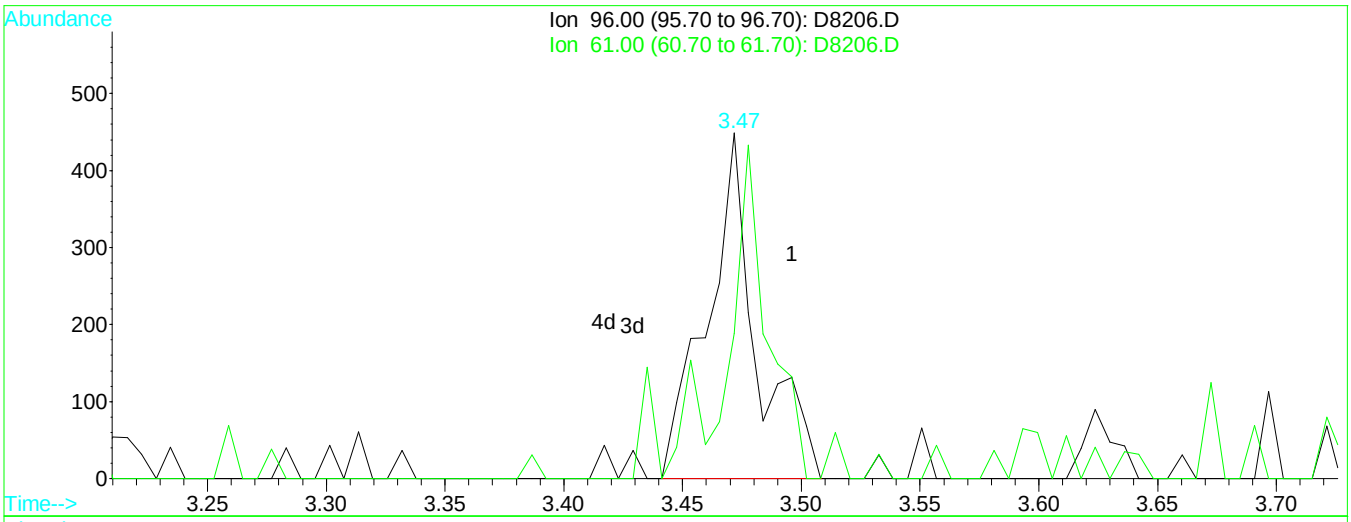
Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	57.1#
100	0.0	0.0	35.2

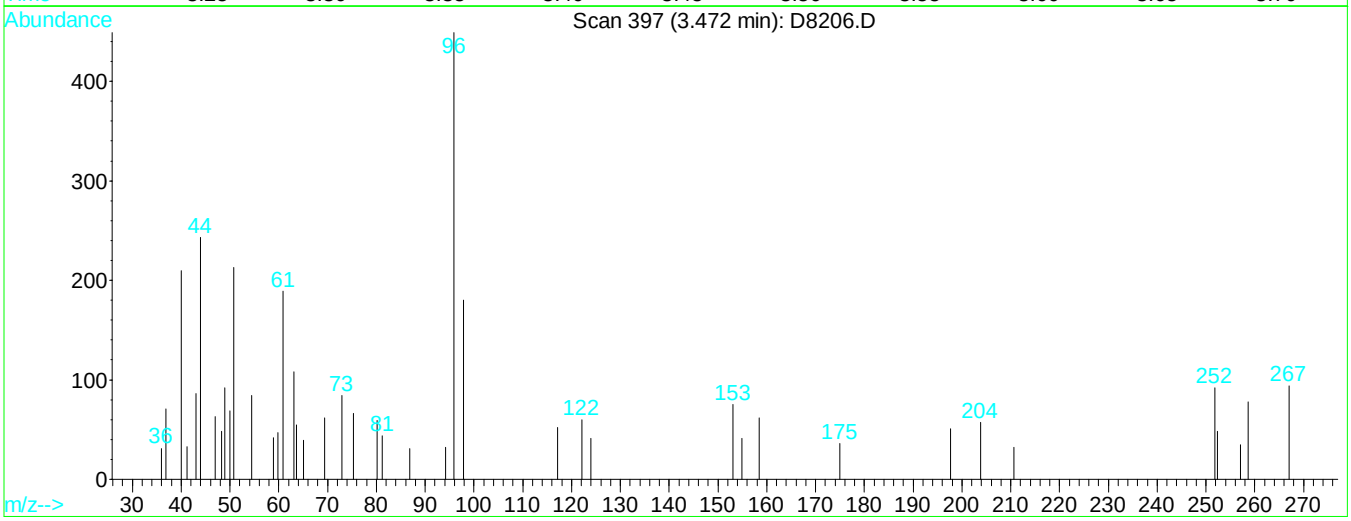


1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8206.D Vial: 20
Acq On : 15 Sep 2017 4:11 pm Operator: D.Lipani
Sample : R1708648-011|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:14 2017 Quant Results File: temp.res

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





TIC: D8206.D

(33) cis-1,2-Dichloroethene (P)

3.47min 0.29ug/L m

response 649

Ion	Exp%	Act%
96.00	100	100
61.00	113.60	42.09#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

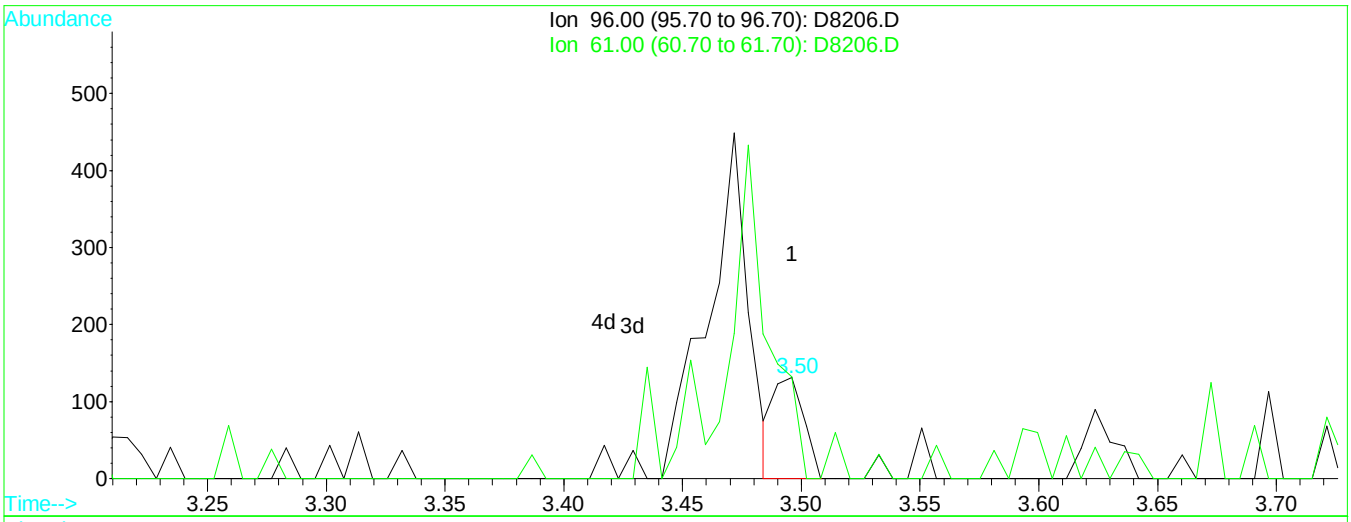
Split Peak.

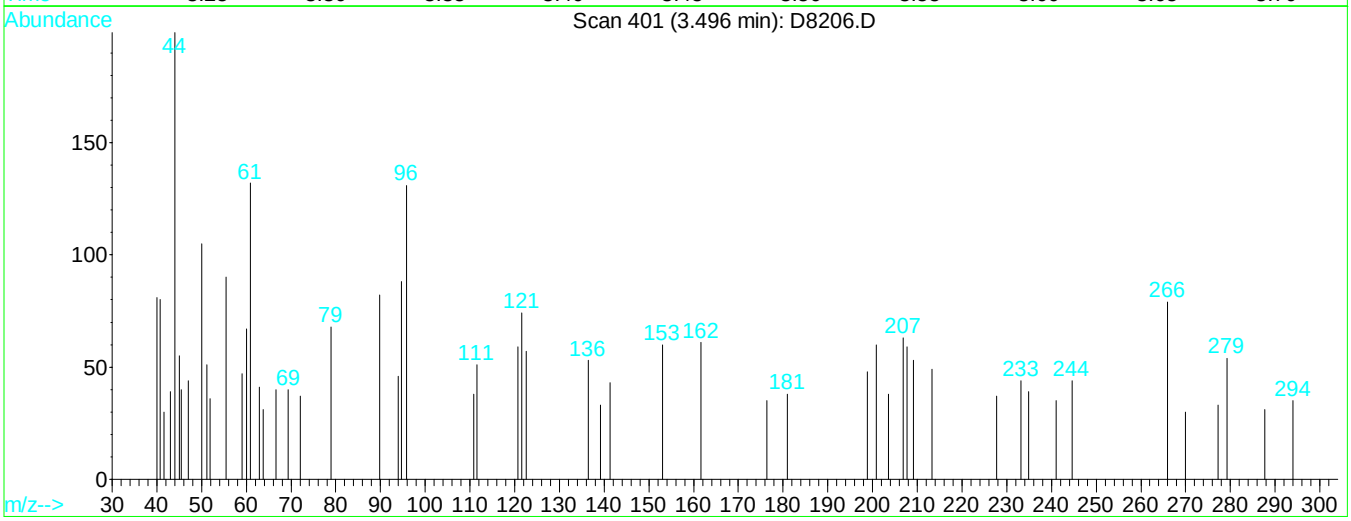
09/18/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8206.D Vial: 20
Acq On : 15 Sep 2017 4:11 pm Operator: D.Lipani
Sample : R1708648-011|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:14 2017 Quant Results File: temp.res

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





TIC: D8206.D

(33) cis-1,2-Dichloroethene (P)

3.50min 0.05ug/L

response 118

Ion	Exp%	Act%
96.00	100	100
61.00	113.60	100.76
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8206.D W082417.M Mon Sep 18 13:14:37 2017

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8206.D Vial: 20
Acq On : 15 Sep 2017 4:11 pm Operator: D.Lipani
Sample : R1708648-011|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:16 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

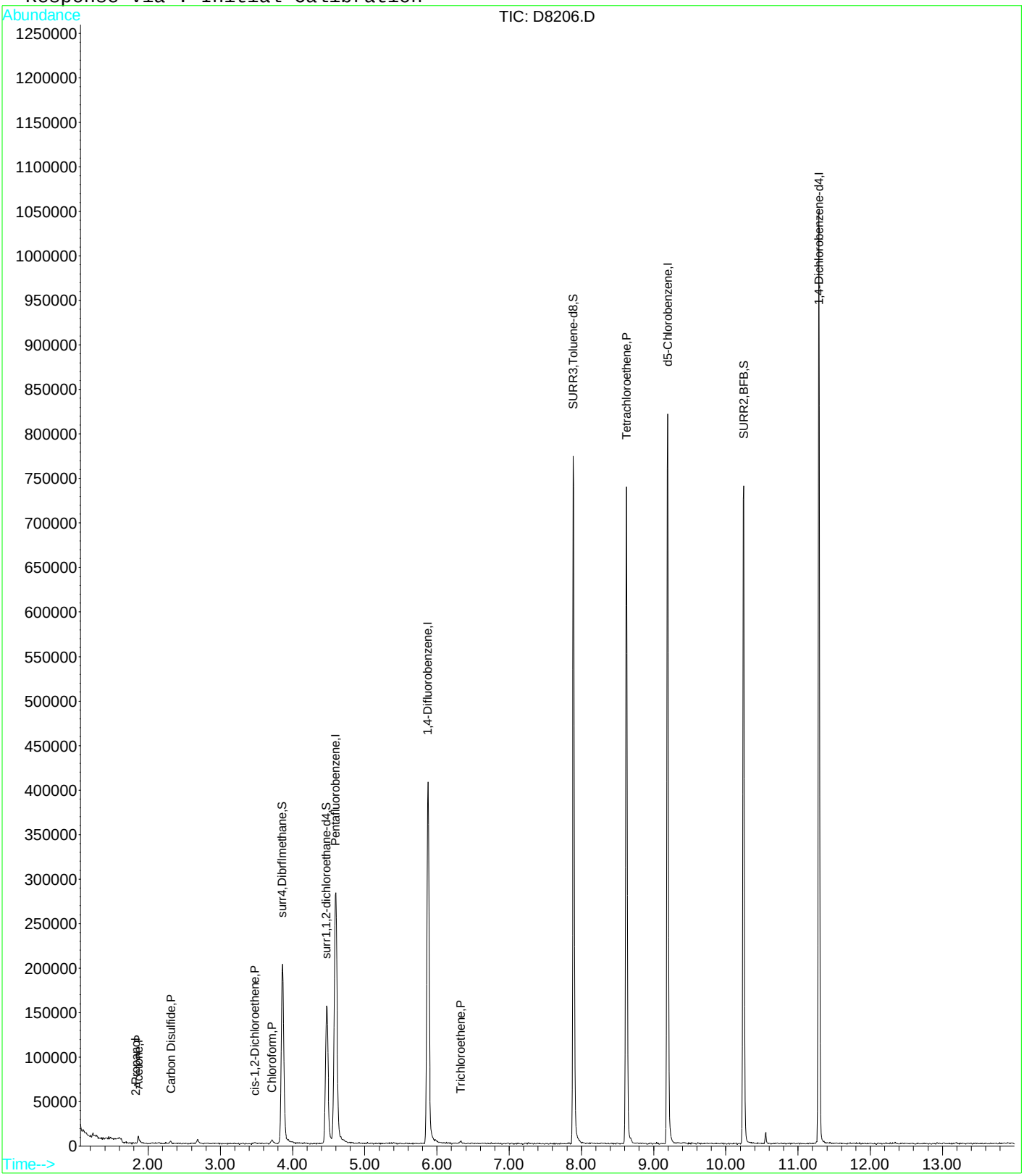
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	283037	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	378226	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	187014	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	197902	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	141103	52.02	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.04%			
43) surr1,1,2-dichloroethane-d	4.48	65	148378	50.50	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 101.00%			
65) SURR3,Toluene-d8	7.89	98	426474	55.68	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.36%			
86) SURR2,BFB	10.24	95	175001	49.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.92%			
Target Compounds						Qvalue
13) 2-Propanol	1.84	45	328	3.10	ug/L	64
14) Acetone	1.87	43	7507	14.17	ug/L	98
24) Carbon Disulfide	2.32	76	2735	0.46	ug/L	86
33) cis-1,2-Dichloroethene	3.47	96	649m	0.29	ug/L	
35) Chloroform	3.72	83	3074	0.81	ug/L	82
54) Trichloroethene	6.33	130	682	0.28	ug/L #	77
74) Tetrachloroethene	8.62	164	134247	60.13	ug/L	99

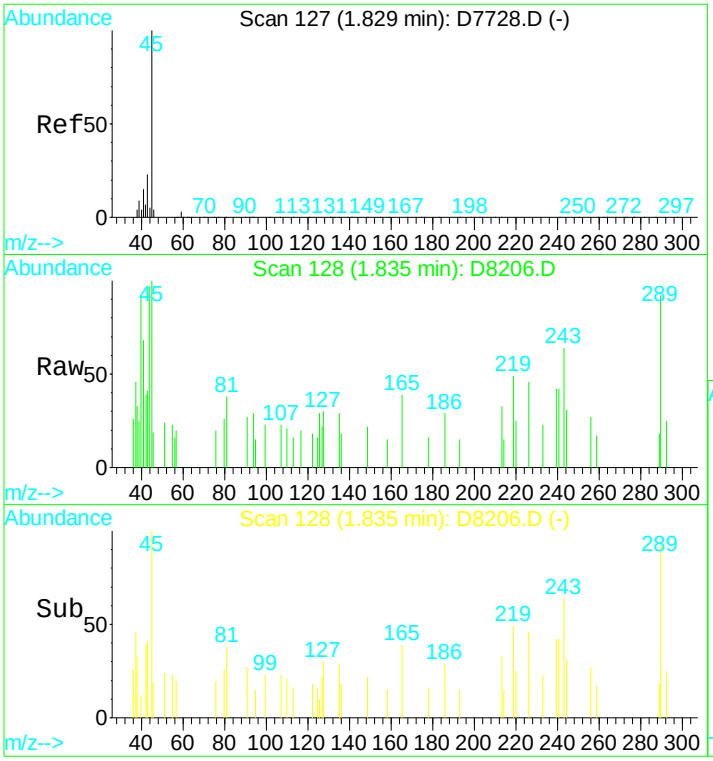
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8206.D Vial: 20
Acq On : 15 Sep 2017 4:11 pm Operator: D.Lipani
Sample : R1708648-011|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:16 2017 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

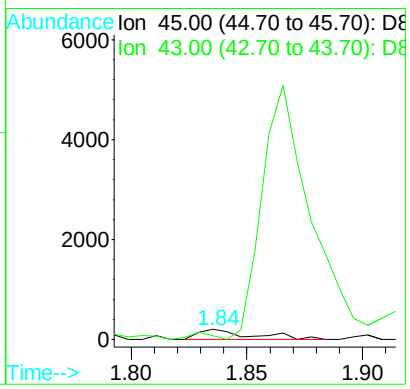


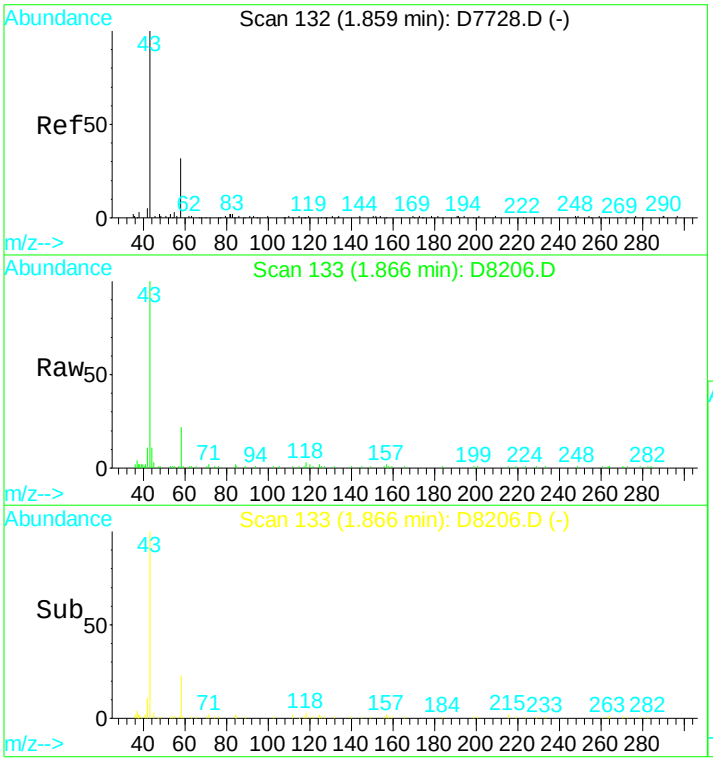


#13
2-Propanol
Concen: 3.10 ug/L
RT: 1.84 min Scan# 128
Delta R.T. 0.01 min
Lab File: D8206.D
Acq: 15 Sep 2017 4:11 pm

Tgt Ion: 45 Resp: 328

Ion	Ratio	Lower	Upper
45	100		
43	41.0	3.5	43.5

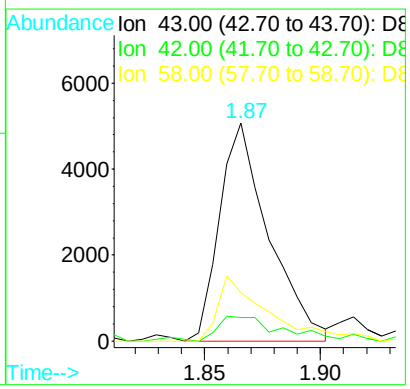


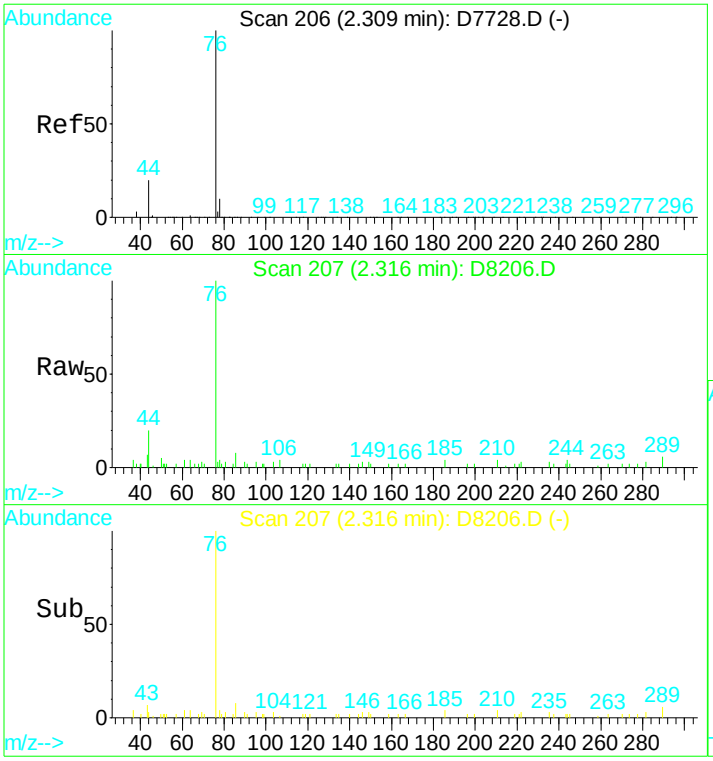


#14
Acetone
Concen: 14.17 ug/L
RT: 1.87 min Scan# 133
Delta R.T. 0.01 min
Lab File: D8206.D
Acq: 15 Sep 2017 4:11 pm

Tgt Ion: 43 Resp: 7507

Ion	Ratio	Lower	Upper
43	100		
42	10.7	0.0	31.4
58	22.2	3.1	43.1

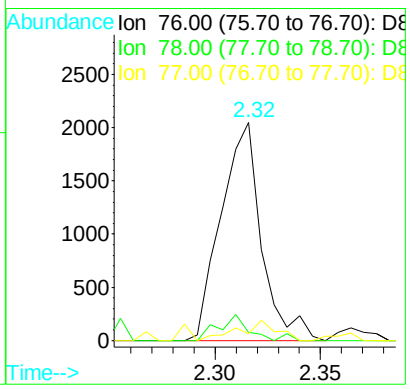


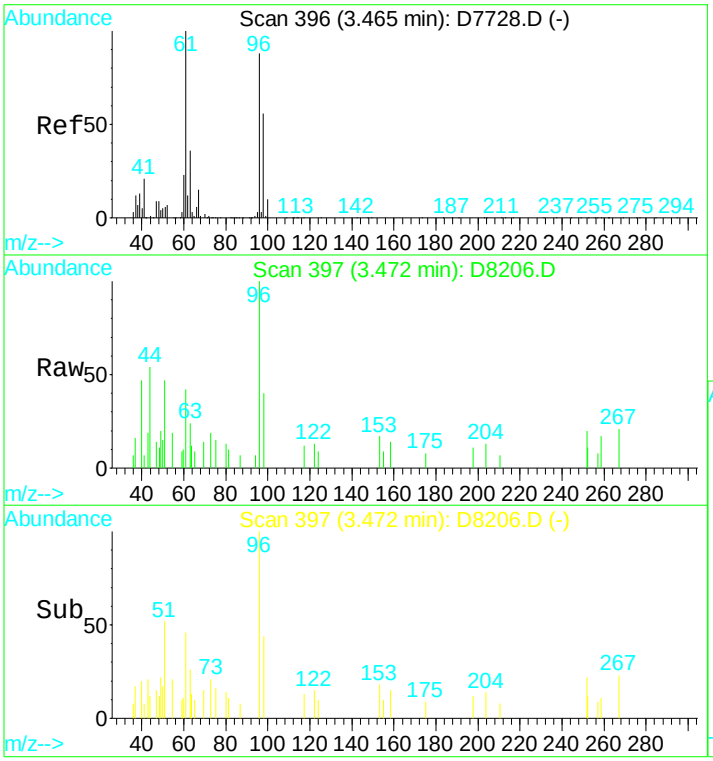


#24
Carbon Disulfide
Concen: 0.46 ug/L
RT: 2.32 min Scan# 207
Delta R.T. 0.01 min
Lab File: D8206.D
Acq: 15 Sep 2017 4:11 pm

Tgt Ion: 76 Resp: 2735

Ion	Ratio	Lower	Upper
76	100		
78	3.7	0.0	30.5
77	3.1	0.0	23.3

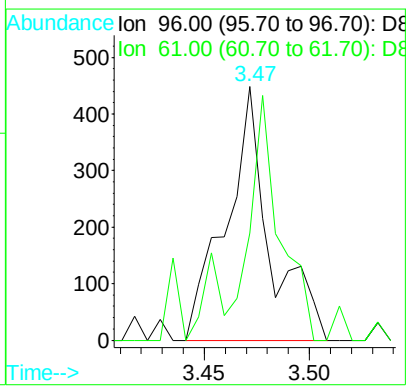


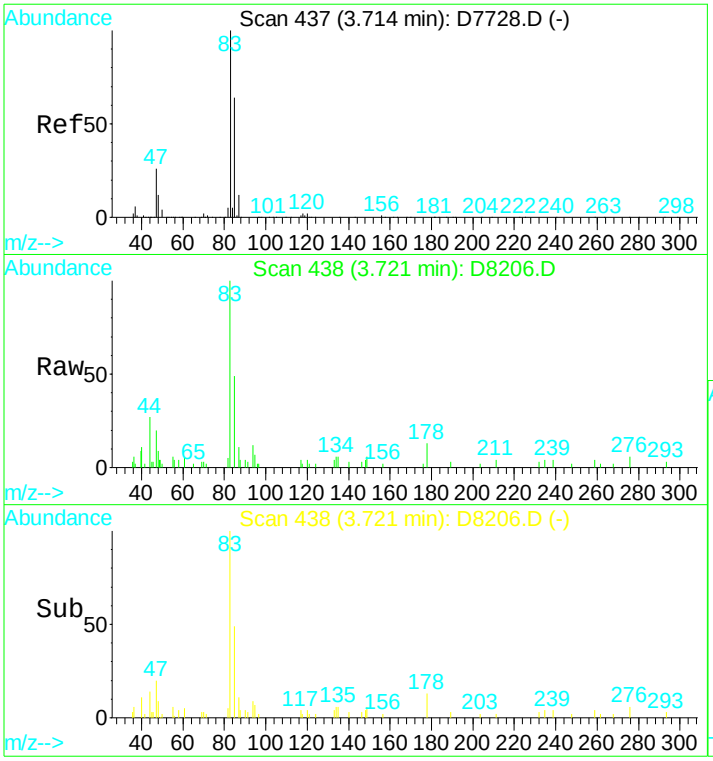


#33
cis-1,2-Dichloroethene
Concen: 0.29 ug/L m
RT: 3.47 min Scan# 397
Delta R.T. 0.01 min
Lab File: D8206.D
Acq: 15 Sep 2017 4:11 pm

Tgt Ion: 96 Resp: 649

Ion	Ratio	Lower	Upper
96	100		
61	42.1	93.6	133.6#

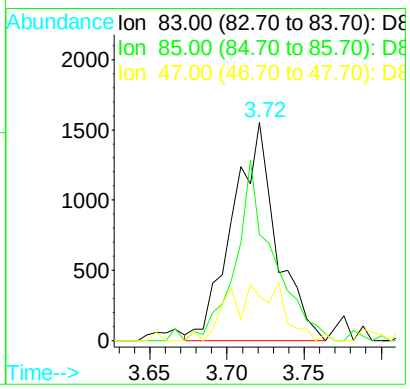


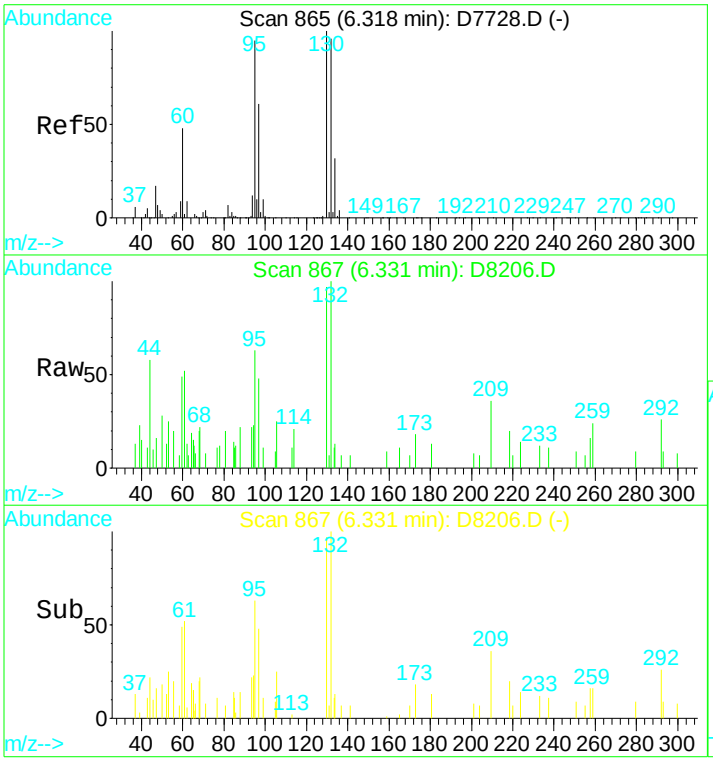


#35
Chloroform
Concen: 0.81 ug/L
RT: 3.72 min Scan# 438
Delta R.T. 0.01 min
Lab File: D8206.D
Acq: 15 Sep 2017 4:11 pm

Tgt Ion: 83 Resp: 3074

Ion	Ratio	Lower	Upper
83	100		
85	48.6	43.9	83.9
47	20.1	8.1	48.1

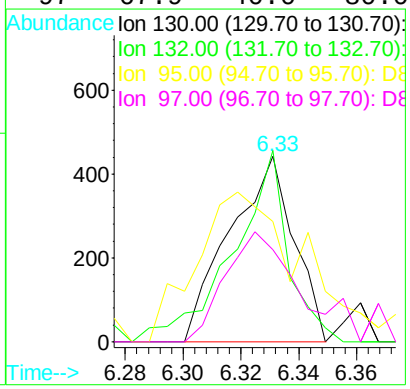


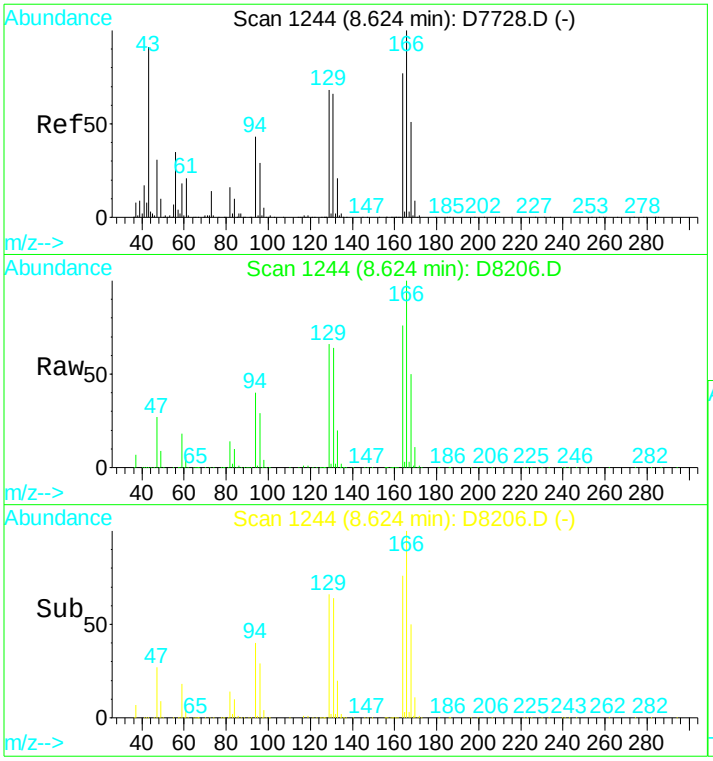


#54
Trichloroethene
Concen: 0.28 ug/L
RT: 6.33 min Scan# 867
Delta R.T. 0.01 min
Lab File: D8206.D
Acq: 15 Sep 2017 4:11 pm

Tgt Ion:130 Resp: 682

Ion	Ratio	Lower	Upper
130	100		
132	88.3	75.8	115.8
95	138.4	72.3	112.3#
97	67.9	40.0	80.0

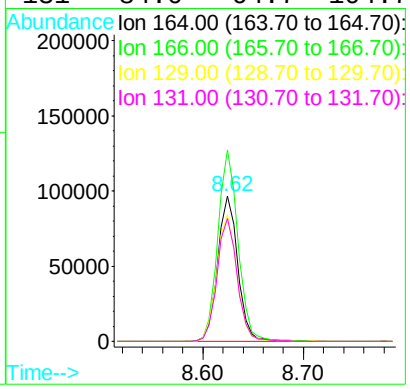




#74
Tetrachloroethene
Concen: 60.13 ug/L
RT: 8.62 min Scan# 1244
Delta R.T. 0.00 min
Lab File: D8206.D
Acq: 15 Sep 2017 4:11 pm

Tgt Ion:164 Resp: 134247

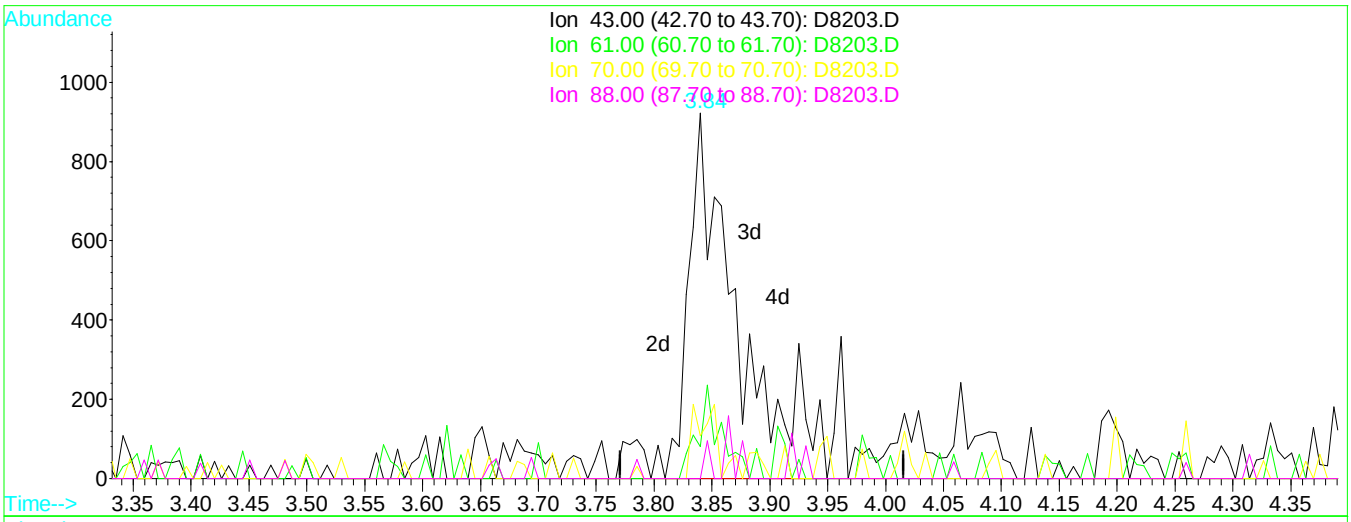
Ion	Ratio	Lower	Upper
164	100		
166	131.8	111.1	151.1
129	86.8	67.3	107.3
131	84.0	64.7	104.7

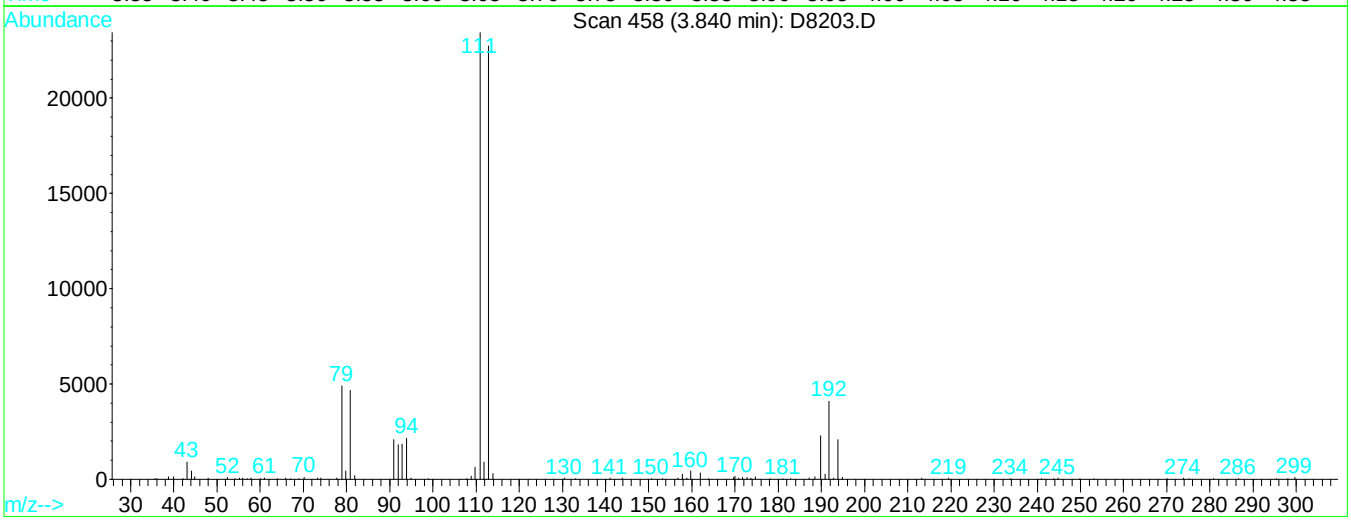


1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D Vial: 17
Acq On : 15 Sep 2017 2:50 pm Operator: D.Lipani
Sample : R1708648-012|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:06 2017 Quant Results File: temp.res

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





TIC: D8203.D

(37) Ethyl Acetate

3.84min 1.77ug/L m

response 2686

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	8.68
70.00	10.60	11.82
88.00	4.70	0.00

Manual Integration:

After

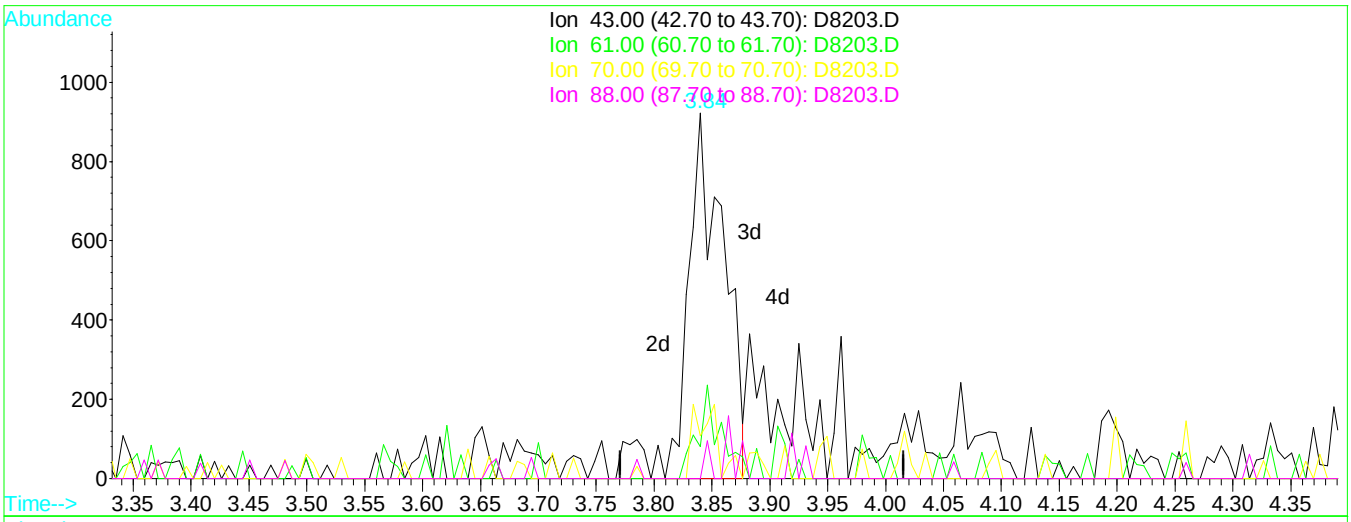
Split Peak.

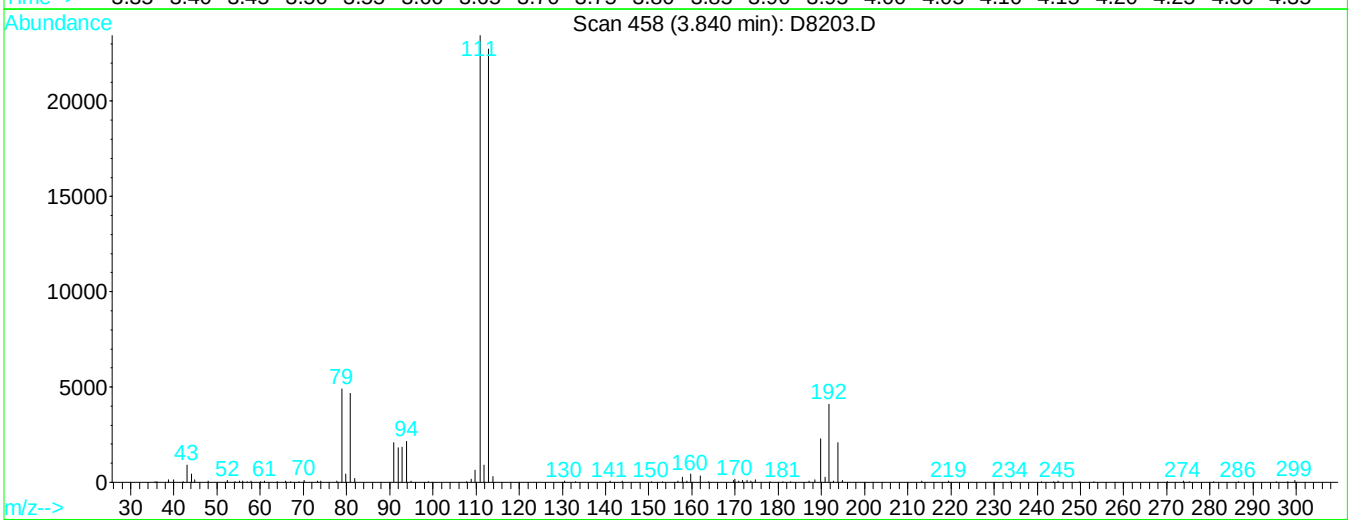
09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D Vial: 17
Acq On : 15 Sep 2017 2:50 pm Operator: D.Lipani
Sample : R1708648-012|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:06 2017 Quant Results File: temp.res

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





TIC: D8203.D

(37) Ethyl Acetate

3.84min 1.26ug/L

response 1912

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	8.68
70.00	10.60	11.82
88.00	4.70	0.00

Manual Integration:

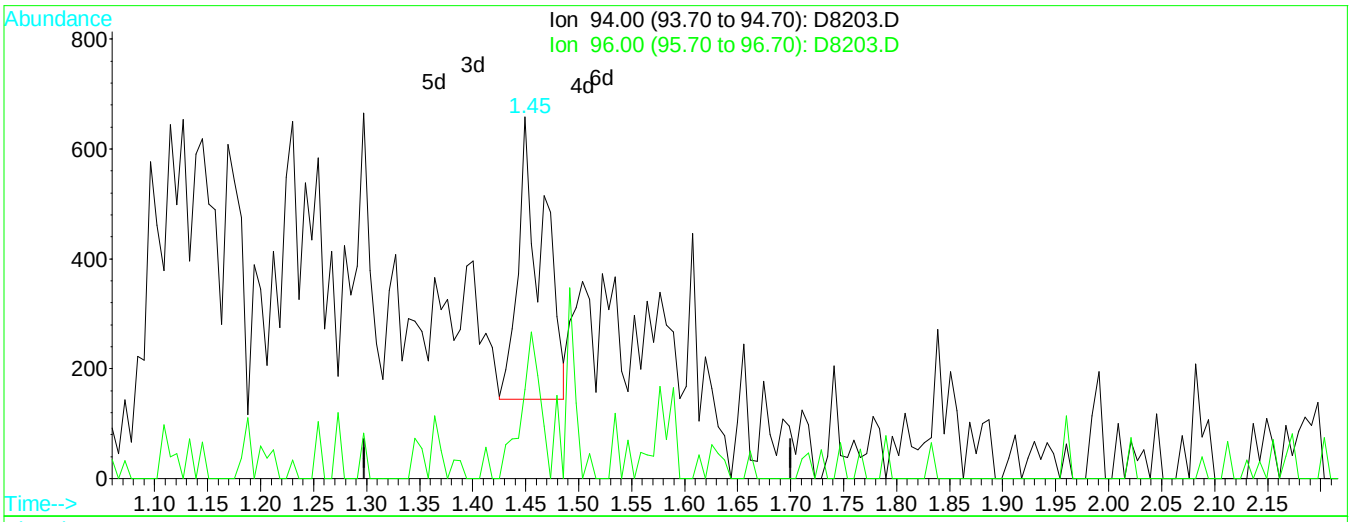
Before

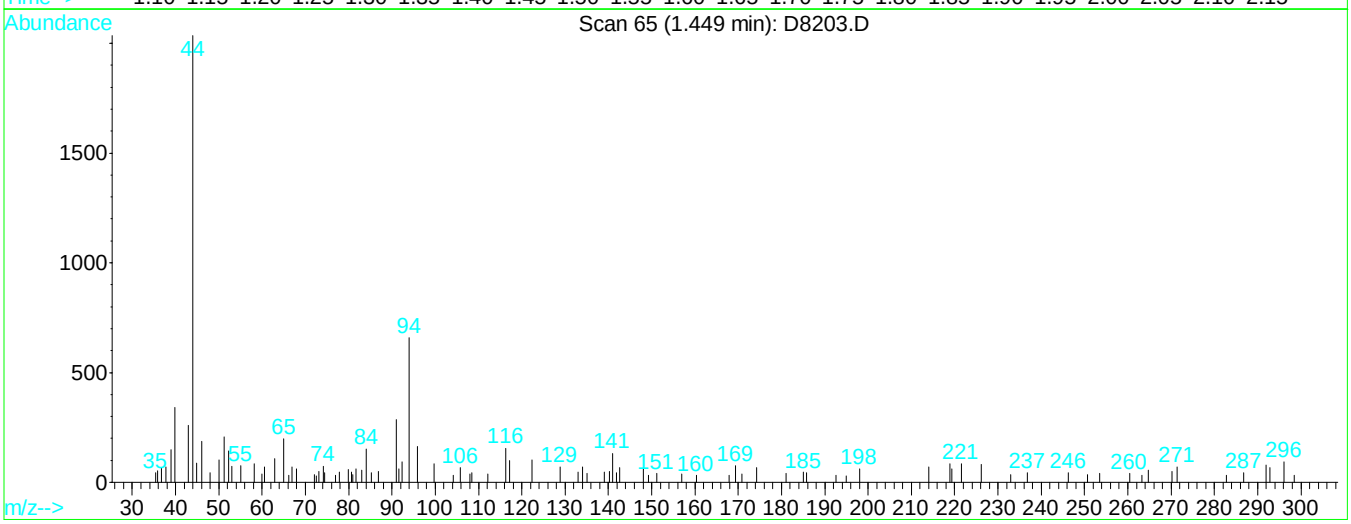
09/18/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D Vial: 17
Acq On : 15 Sep 2017 2:50 pm Operator: D.Lipani
Sample : R1708648-012|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:05 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: D8203.D

(5) Bromomethane (P)

1.45min 0.40ug/L m

response 845

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	24.62#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

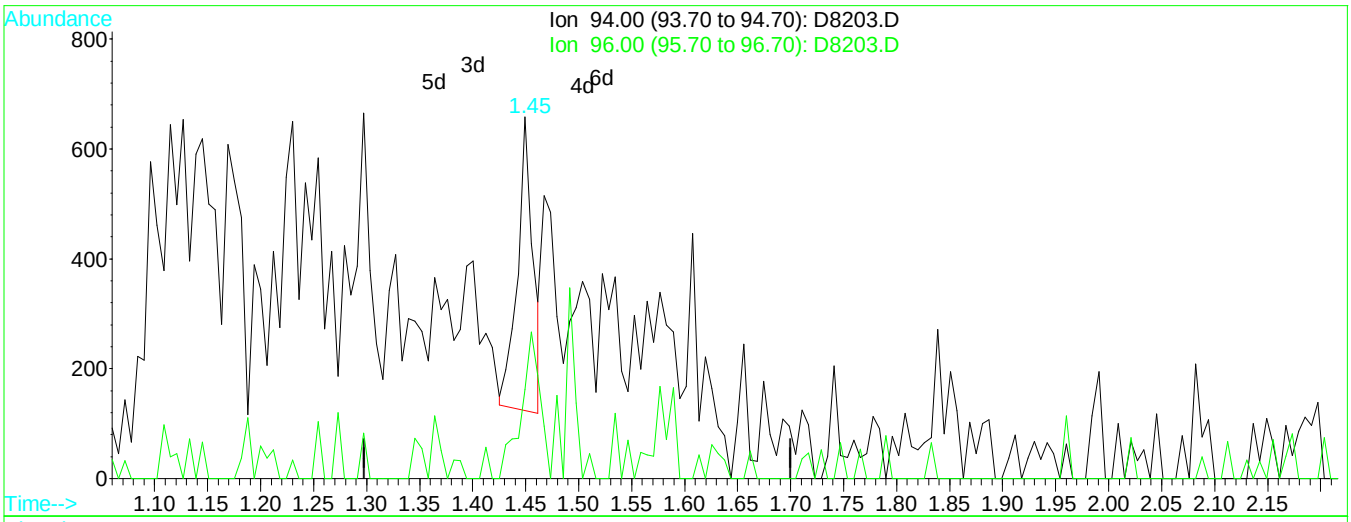
Split Peak.

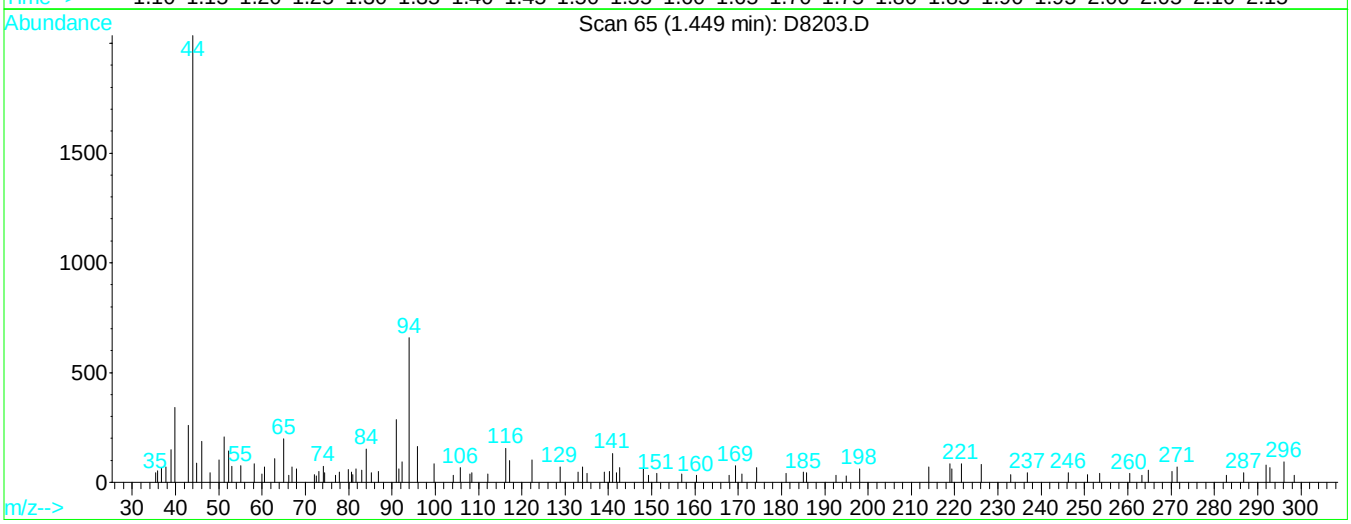
09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D Vial: 17
Acq On : 15 Sep 2017 2:50 pm Operator: D.Lipani
Sample : R1708648-012|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 15:07 2017 Quant Results File: temp.res

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





TIC: D8203.D

(5) Bromomethane (P)

1.45min 0.26ug/L

response 545

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	24.62#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D Vial: 17
Acq On : 15 Sep 2017 2:50 pm Operator: D.Lipani
Sample : R1708648-012|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:08 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	288249	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	389142	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	185360	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	202230	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	138921	49.77	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.54%			
43) surr1,1,2-dichloroethane-d	4.48	65	151775	50.21	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 100.42%			
65) SURR3,Toluene-d8	7.89	98	425557	54.01	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.02%			
86) SURR2,BFB	10.25	95	172239	49.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.22%			
Target Compounds						Qvalue
5) Bromomethane	1.45	94	845m	0.40	ug/L	
6) Chloroethane	1.50	64	363	0.21	ug/L #	50
14) Acetone	1.86	43	9212	17.07	ug/L	77
24) Carbon Disulfide	2.31	76	6046	1.00	ug/L	92
35) Chloroform	3.72	83	883	0.23	ug/L	85
37) Ethyl Acetate	3.84	43	2686m	1.77	ug/L	
49) Benzene	5.40	78	2847	0.37	ug/L	88
74) Tetrachloroethene	8.63	164	8673	3.92	ug/L	93

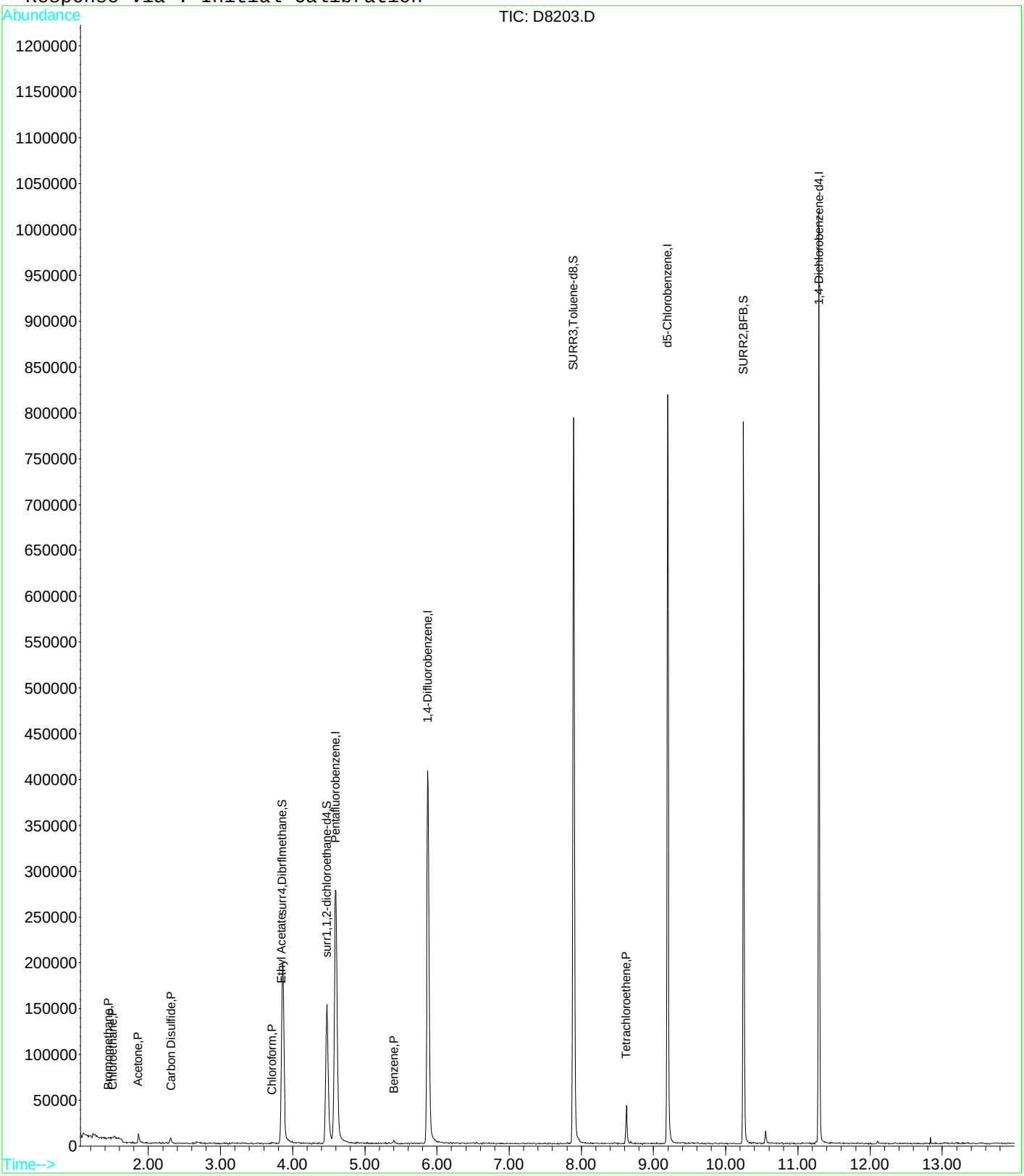
Diluted due to limited volume available

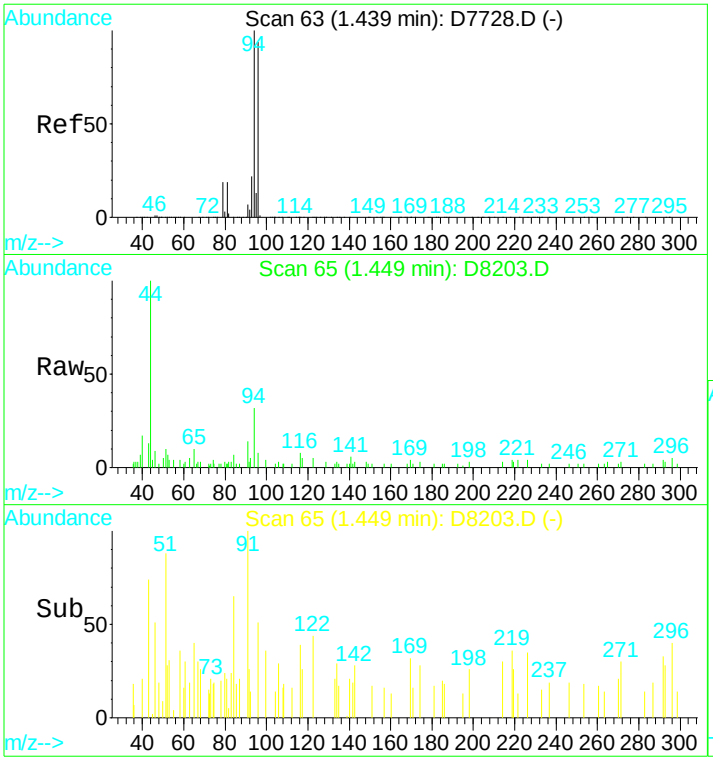
(#) = qualifier out of range (m) = manual integration
D8203.D W082417.M Mon Sep 18 13:08:55 2017 Page 1

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D Vial: 17
Acq On : 15 Sep 2017 2:50 pm Operator: D.Lipani
Sample : R1708648-012|2.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:08 2017 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

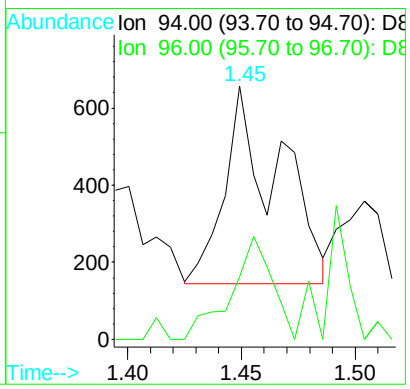


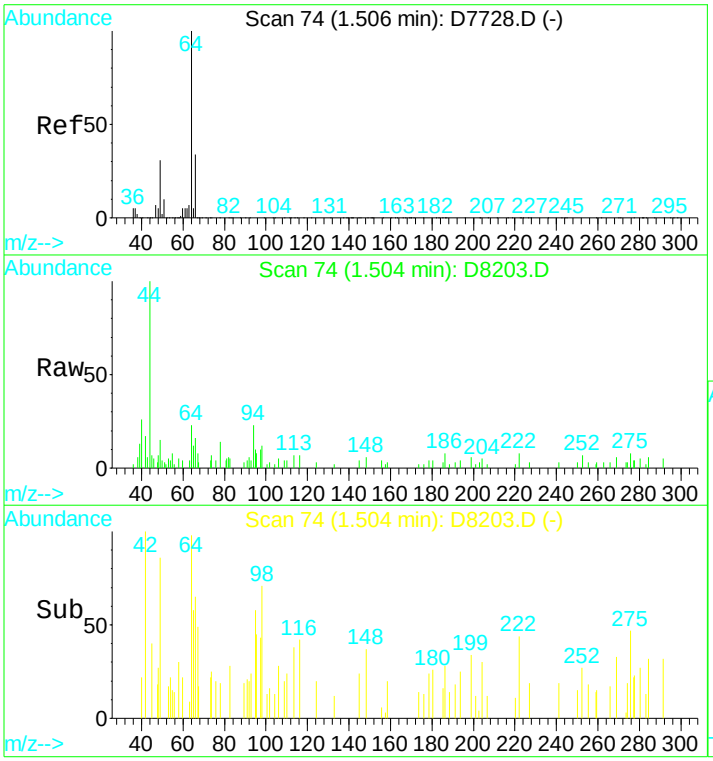


#5
Bromomethane
Concen: 0.40 ug/L m
RT: 1.45 min Scan# 65
Delta R.T. 0.01 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion: 94 Resp: 845

Ion	Ratio	Lower	Upper
94	100		
96	24.6	73.7	113.7#

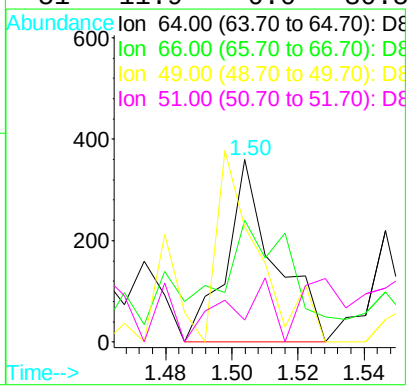


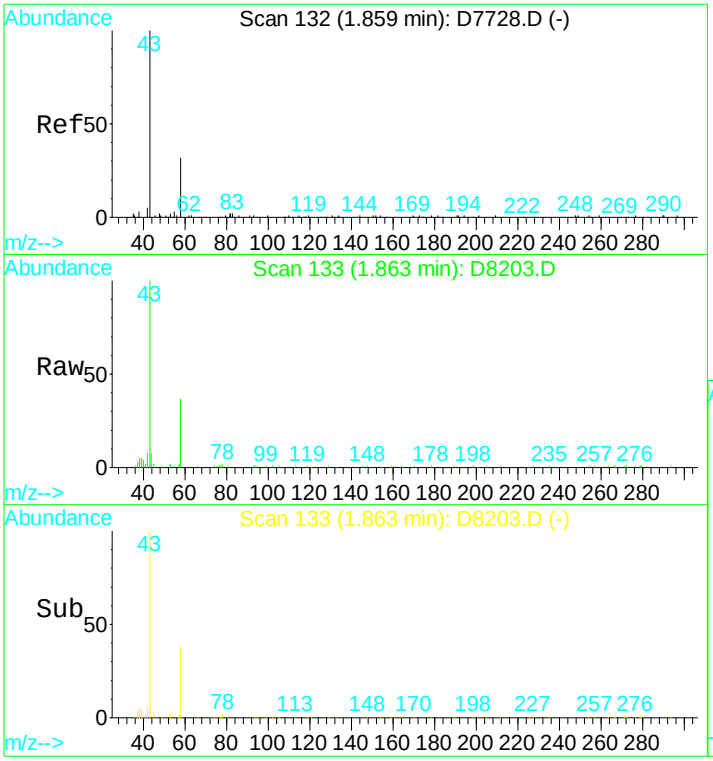


#6
Chloroethane
Concen: 0.21 ug/L
RT: 1.50 min Scan# 74
Delta R.T. -0.00 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion: 64 Resp: 363

Ion	Ratio	Lower	Upper
64	100		
66	66.7	14.3	54.3#
49	62.8	10.7	50.7#
51	11.9	0.0	30.5

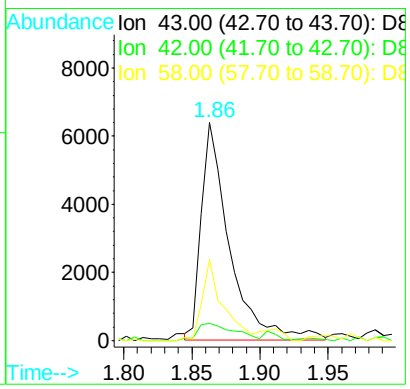


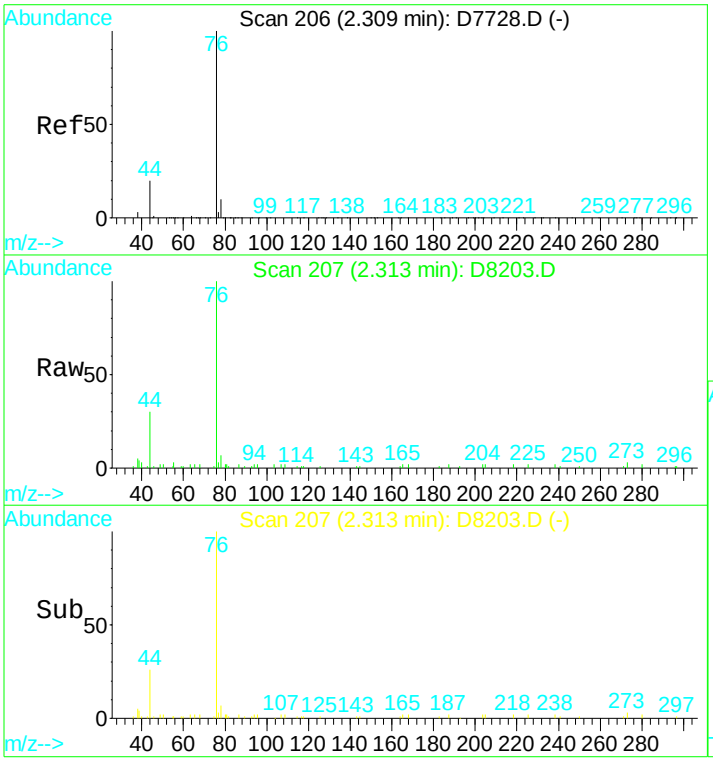


#14
Acetone
Concen: 17.07 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.00 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion: 43 Resp: 9212

Ion	Ratio	Lower	Upper
43	100		
42	7.7	0.0	31.4
58	37.2	3.1	43.1

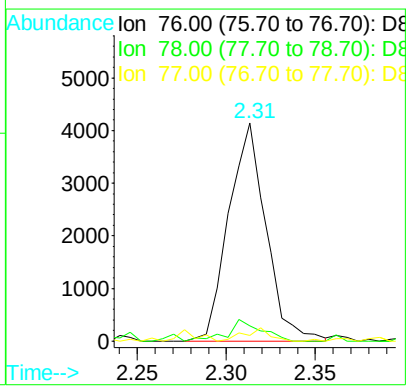


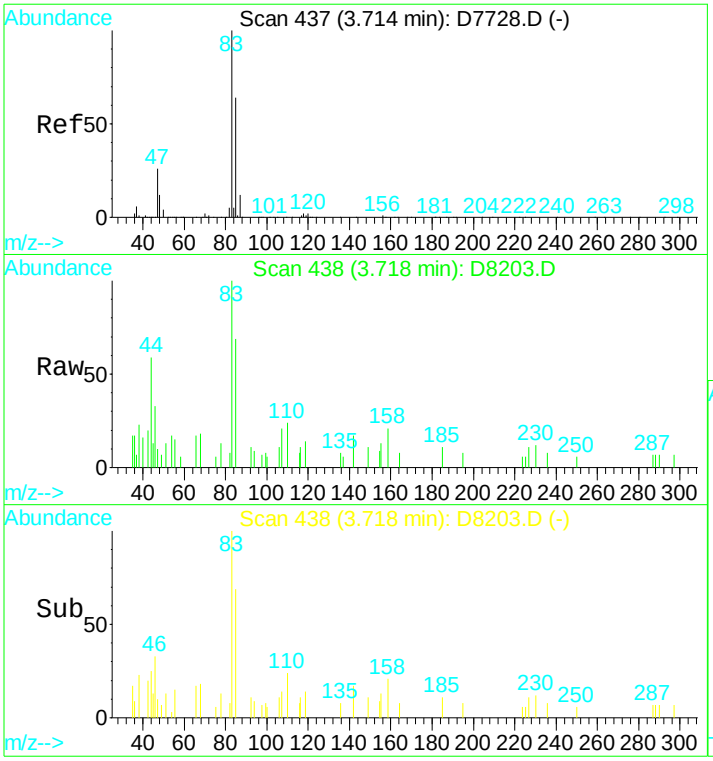


#24
Carbon Disulfide
Concen: 1.00 ug/L
RT: 2.31 min Scan# 207
Delta R.T. 0.00 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion: 76 Resp: 6046

Ion	Ratio	Lower	Upper
76	100		
78	6.9	0.0	30.5
77	2.7	0.0	23.3

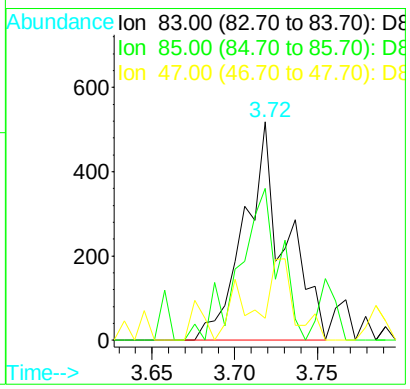


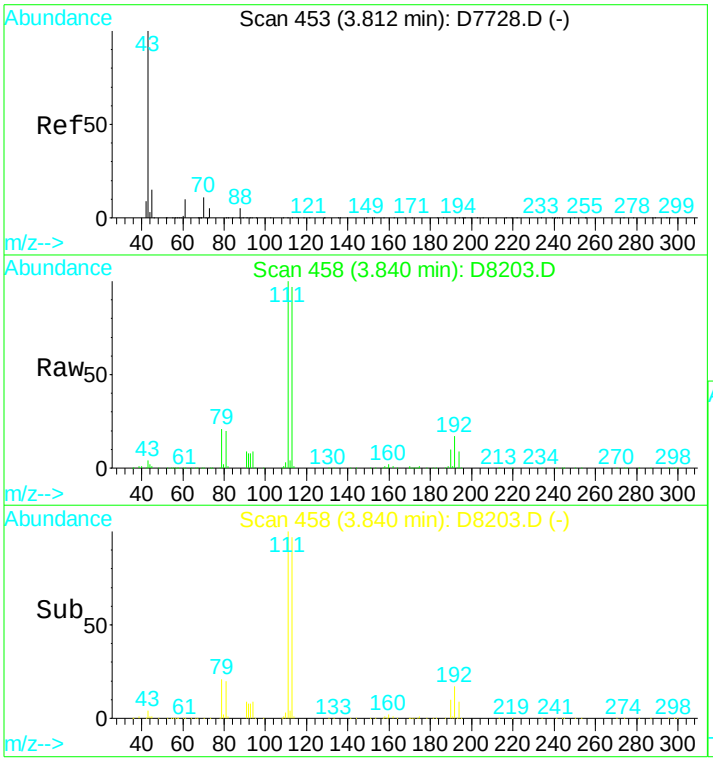


#35
Chloroform
Concen: 0.23 ug/L
RT: 3.72 min Scan# 438
Delta R.T. 0.00 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion: 83 Resp: 883

Ion	Ratio	Lower	Upper
83	100		
85	69.5	43.9	83.9
47	10.0	8.1	48.1

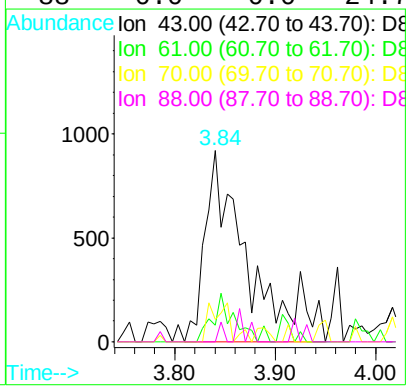


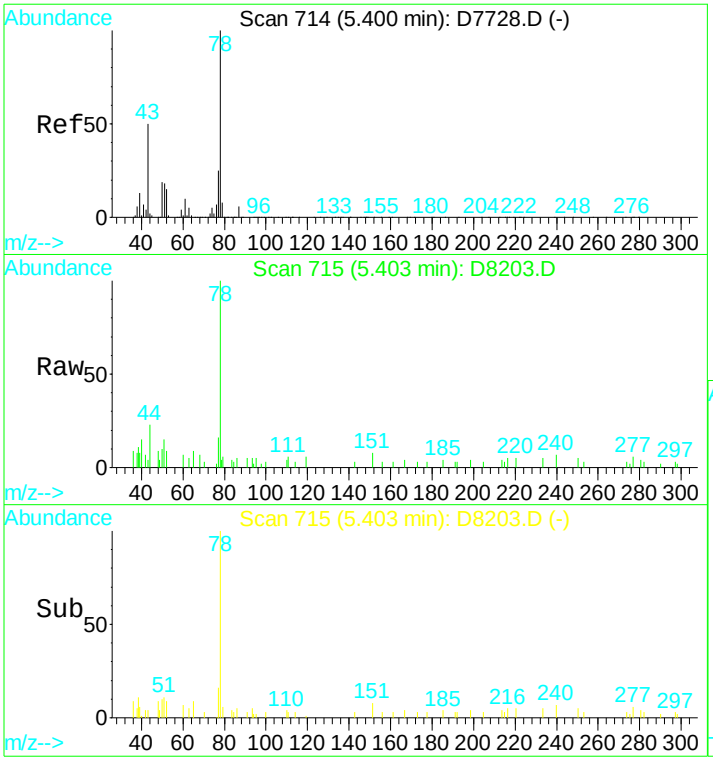


#37
Ethyl Acetate
Concen: 1.77 ug/L m
RT: 3.84 min Scan# 458
Delta R.T. 0.03 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion: 43 Resp: 2686

Ion	Ratio	Lower	Upper
43	100		
61	8.7	1.7	41.7
70	11.8	0.0	30.6
88	0.0	0.0	24.7

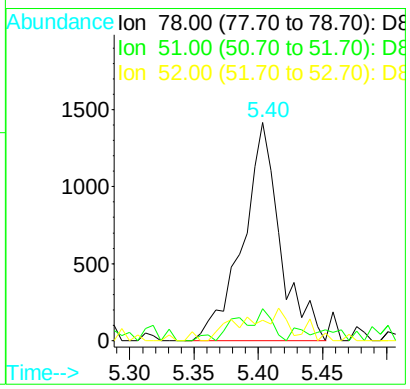


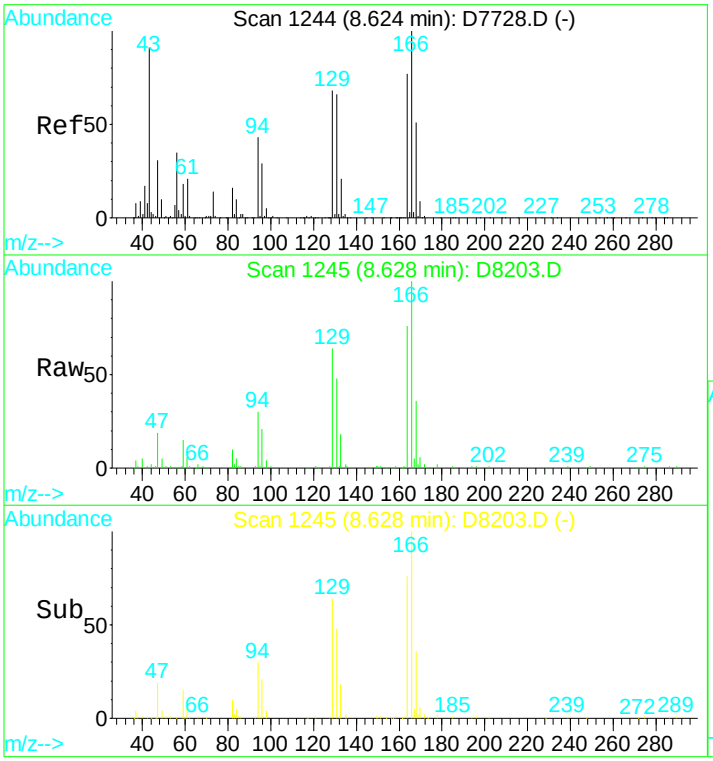


#49
Benzene
Concen: 0.37 ug/L
RT: 5.40 min Scan# 715
Delta R.T. 0.00 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion: 78 Resp: 2847

Ion	Ratio	Lower	Upper
78	100		
51	14.1	0.0	37.8
52	8.9	0.0	35.4

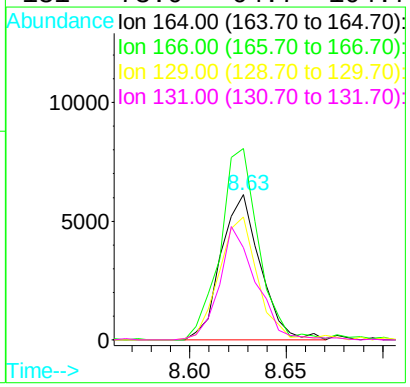




#74
Tetrachloroethene
Concen: 3.92 ug/L
RT: 8.63 min Scan# 1245
Delta R.T. 0.00 min
Lab File: D8203.D
Acq: 15 Sep 2017 2:50 pm

Tgt Ion:164 Resp: 8673

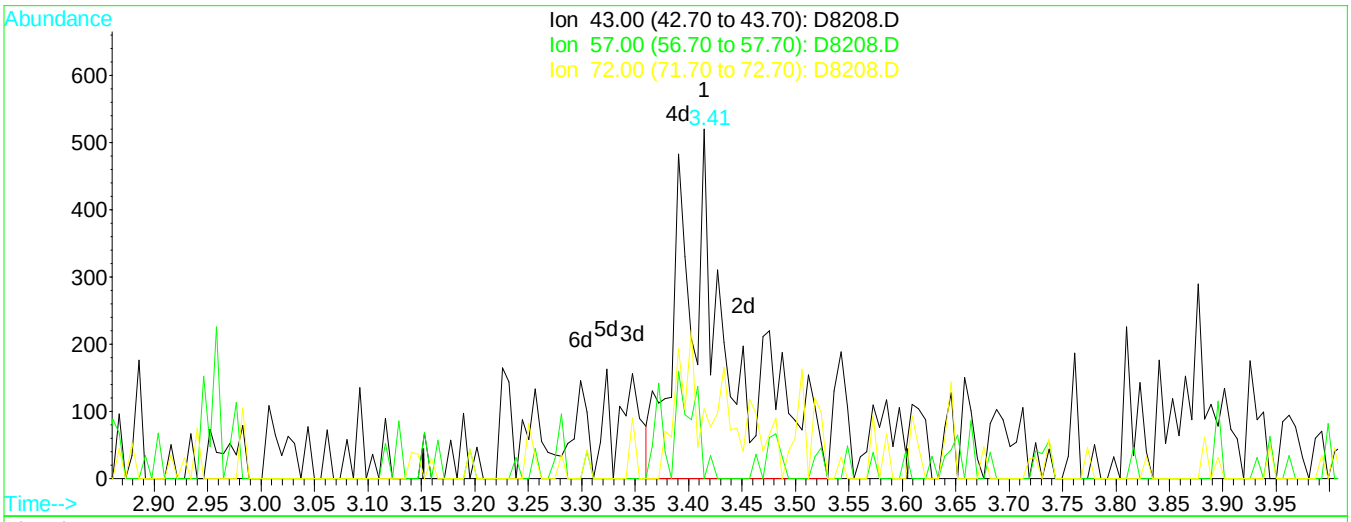
Ion	Ratio	Lower	Upper
164	100		
166	125.8	111.1	151.1
129	83.9	67.3	107.3
131	73.0	64.7	104.7

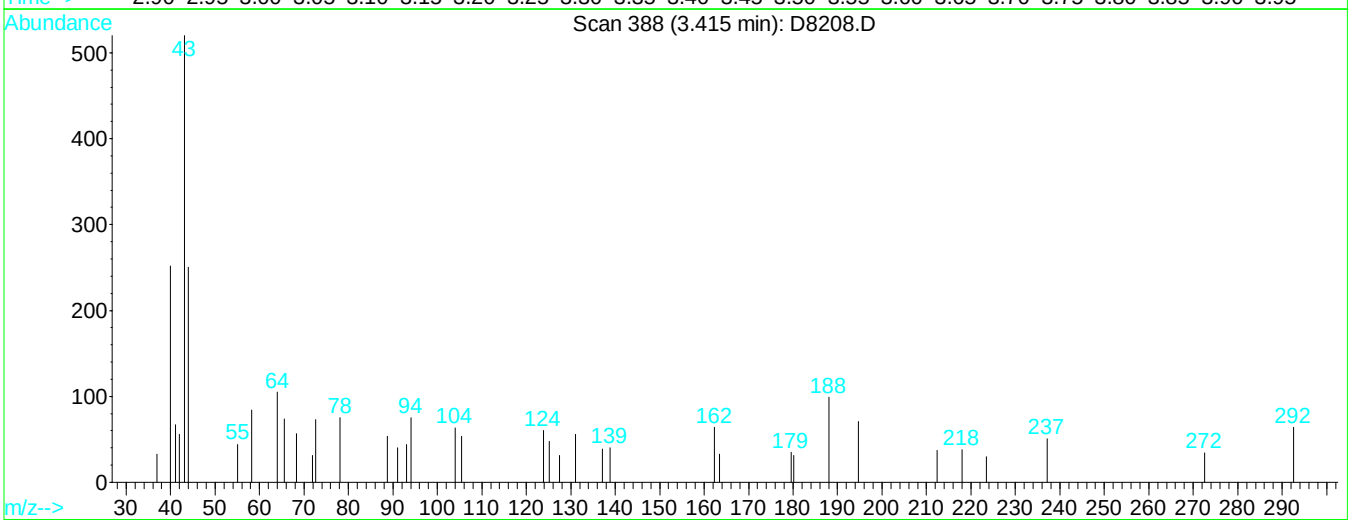


1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8208.D Vial: 22
Acq On : 15 Sep 2017 5:02 pm Operator: D.Lipani
Sample : R1708648-013|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:20 2017 Quant Results File: temp.res

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





TIC: D8208.D

(31) 2-Butanone (P)

3.41min 2.46ug/L m

response 1717

Ion	Exp%	Act%
43.00	100	100
57.00	9.40	0.00
72.00	25.60	14.04
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

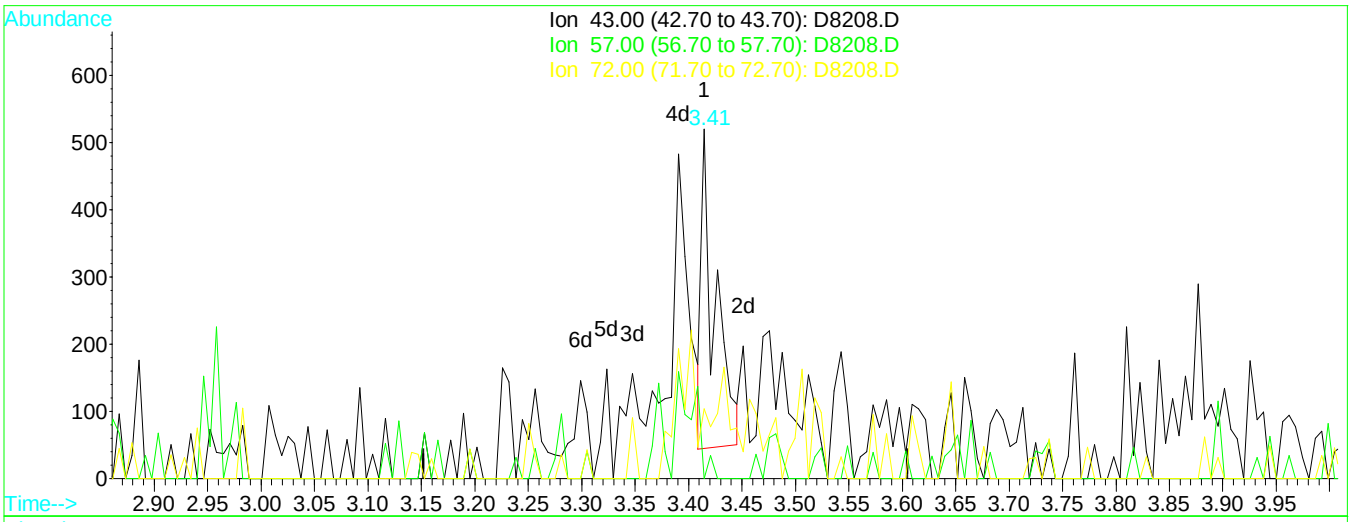
09/18/17

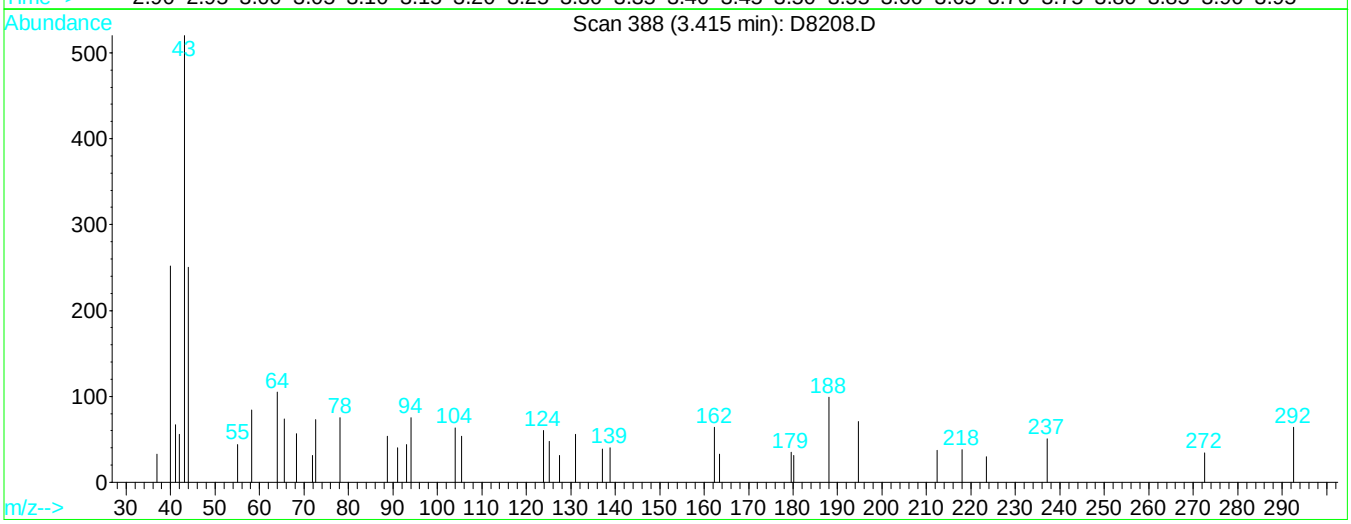
D8208.D W082417.M Mon Sep 18 13:21:43 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8208.D Vial: 22
Acq On : 15 Sep 2017 5:02 pm Operator: D.Lipani
Sample : R1708648-013|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:20 2017 Quant Results File: temp.res

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





TIC: D8208.D

(31) 2-Butanone (P)

3.41min 0.59ug/L

response 415

Ion	Exp%	Act%
43.00	100	100
57.00	9.40	0.00
72.00	25.60	20.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8208.D W082417.M Mon Sep 18 13:20:42 2017

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8208.D Vial: 22
Acq On : 15 Sep 2017 5:02 pm Operator: D.Lipani
Sample : R1708648-013|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:24 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

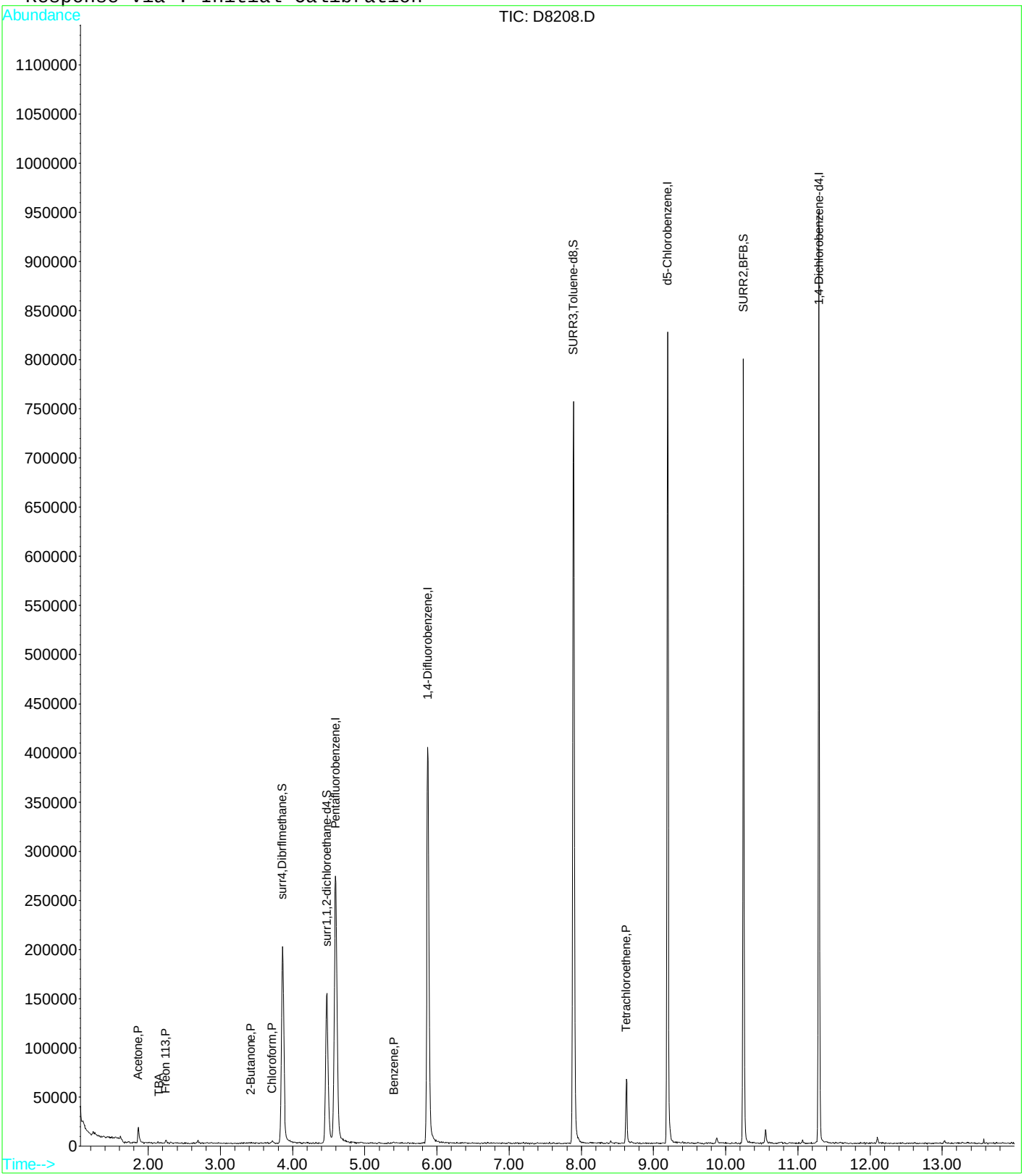
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	4.60	168	278180	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	5.87	114	384004	50.00	ug/L		0.00
67) d5-Chlorobenzene	9.19	82	181316	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	190357	50.00	ug/L		0.00
System Monitoring Compounds							
41) surr4,Dibrflmethane	3.86	113	139479	50.64	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.28%				
43) surr1,1,2-dichloroethane-d	4.47	65	148732	49.86	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.72%				
65) SURR3,Toluene-d8	7.89	98	417135	53.65	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.30%				
86) SURR2,BFB	10.25	95	173795	51.18	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.36%				
Target Compounds							Qvalue
14) Acetone	1.86	43	14046	26.97	ug/L		96
18) TBA	2.15	59	192	1.08	ug/L		57
21) Freon 113	2.23	101	767	0.35	ug/L	#	47
31) 2-Butanone	3.41	43	1717m	2.46	ug/L		
35) Chloroform	3.72	83	1341	0.36	ug/L	#	62
49) Benzene	5.40	78	1530	0.20	ug/L		92
74) Tetrachloroethene	8.63	164	13498	6.24	ug/L		94

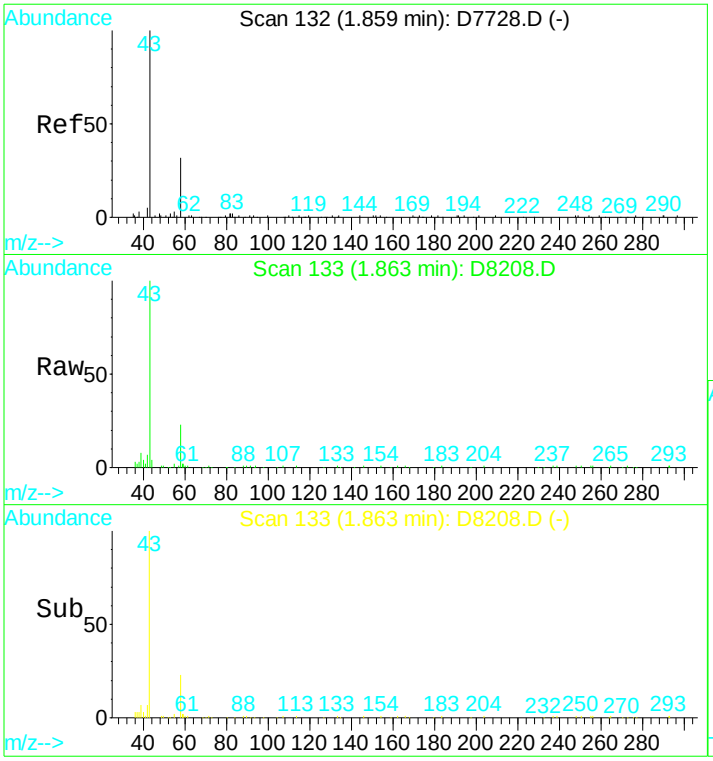
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8208.D Vial: 22
Acq On : 15 Sep 2017 5:02 pm Operator: D.Lipani
Sample : R1708648-013|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:24 2017 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

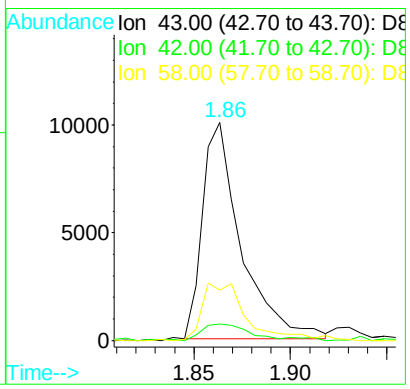


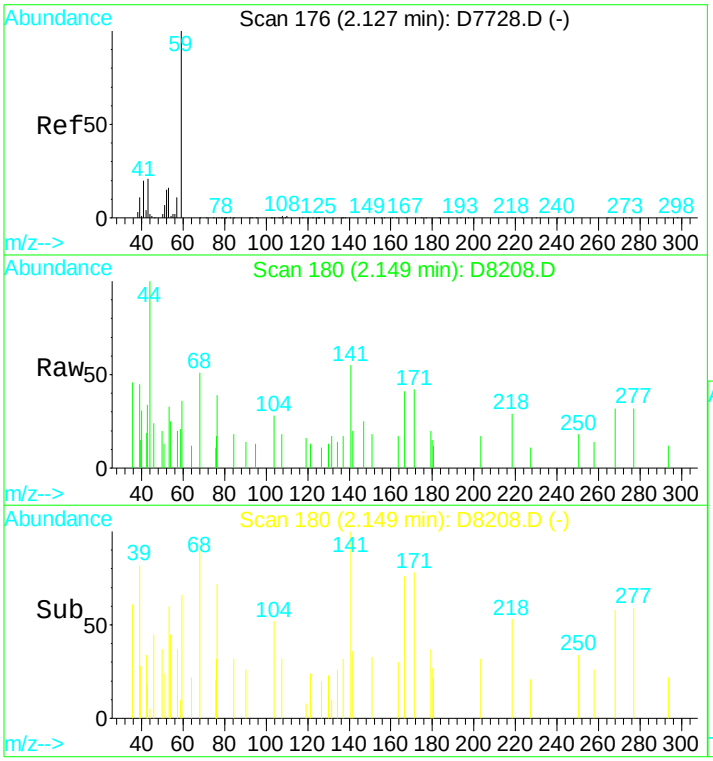


#14
Acetone
Concen: 26.97 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.00 min
Lab File: D8208.D
Acq: 15 Sep 2017 5:02 pm

Tgt Ion: 43 Resp: 14046

Ion	Ratio	Lower	Upper
43	100		
42	7.4	0.0	31.4
58	23.2	3.1	43.1

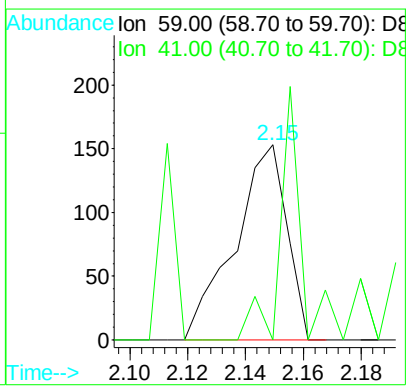


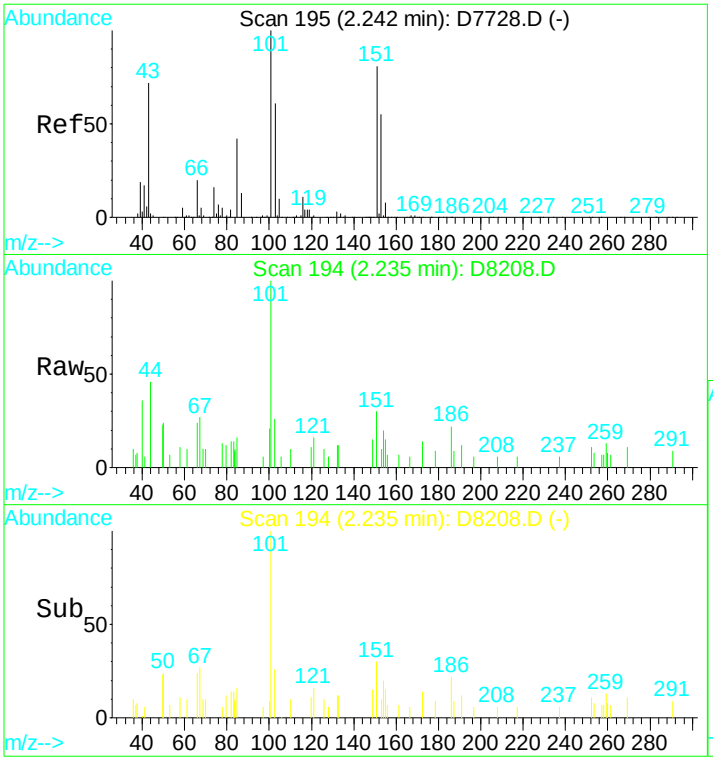


#18
TBA
Concen: 1.08 ug/L
RT: 2.15 min Scan# 180
Delta R.T. 0.02 min
Lab File: D8208.D
Acq: 15 Sep 2017 5:02 pm

Tgt Ion: 59 Resp: 192

Ion	Ratio	Lower	Upper
59	100		
41	0.0	0.0	39.9

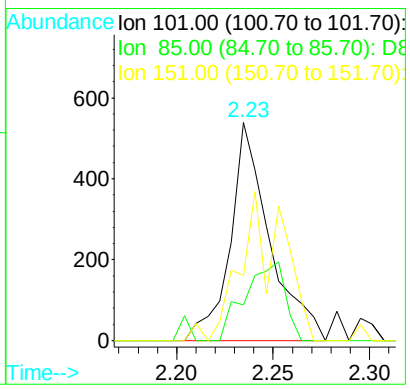


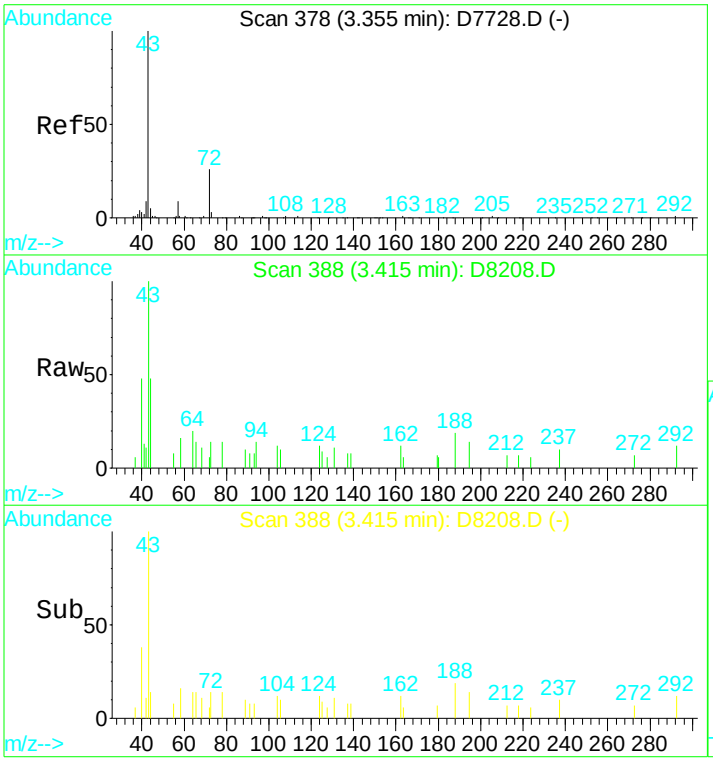


#21
Freon 113
Concen: 0.35 ug/L
RT: 2.23 min Scan# 194
Delta R.T. -0.01 min
Lab File: D8208.D
Acq: 15 Sep 2017 5:02 pm

Tgt Ion:101 Resp: 767

Ion	Ratio	Lower	Upper
101	100		
85	16.5	25.6	65.6#
151	30.0	61.0	101.0#

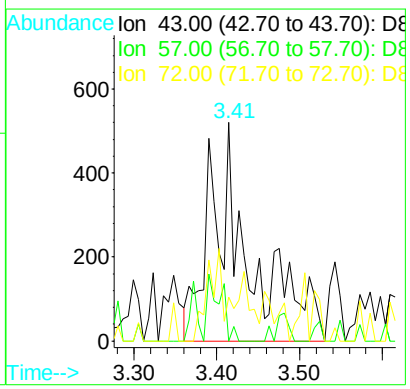


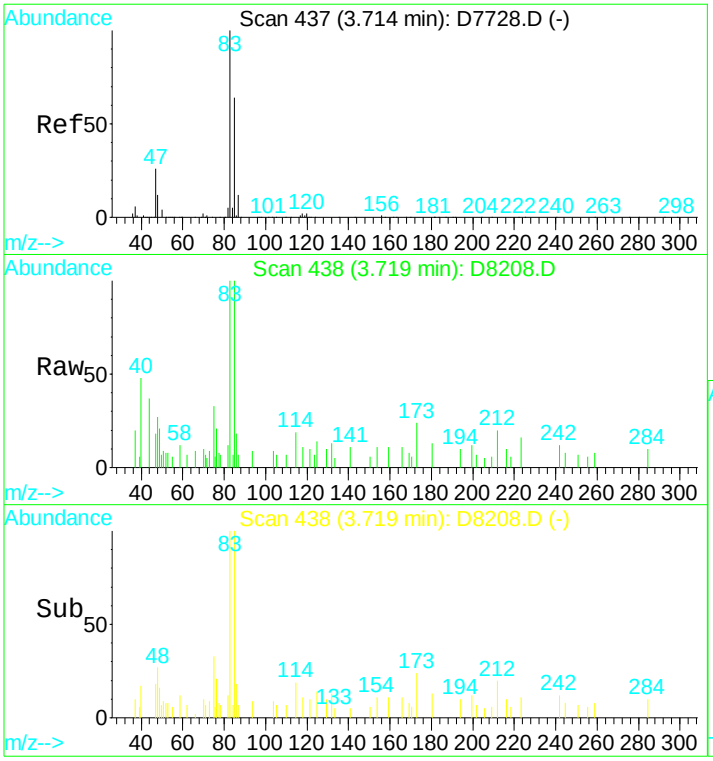


#31
2-Butanone
Concen: 2.46 ug/L m
RT: 3.41 min Scan# 388
Delta R.T. 0.06 min
Lab File: D8208.D
Acq: 15 Sep 2017 5:02 pm

Tgt Ion: 43 Resp: 1717

Ion	Ratio	Lower	Upper
43	100		
57	0.0	0.0	29.4
72	14.0	5.6	45.6

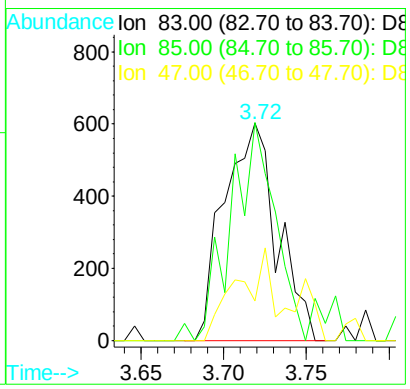


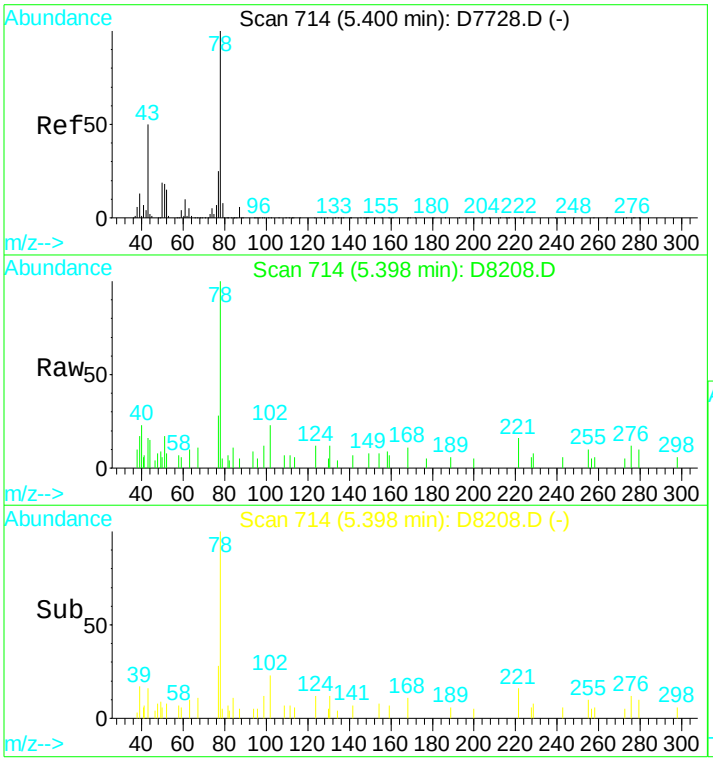


#35
Chloroform
Concen: 0.36 ug/L
RT: 3.72 min Scan# 438
Delta R.T. 0.00 min
Lab File: D8208.D
Acq: 15 Sep 2017 5:02 pm

Tgt Ion: 83 Resp: 1341

Ion	Ratio	Lower	Upper
83	100		
85	100.5	43.9	83.9#
47	18.3	8.1	48.1

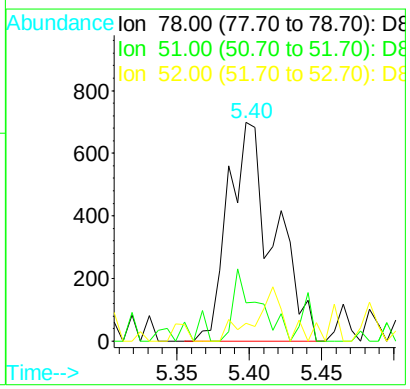




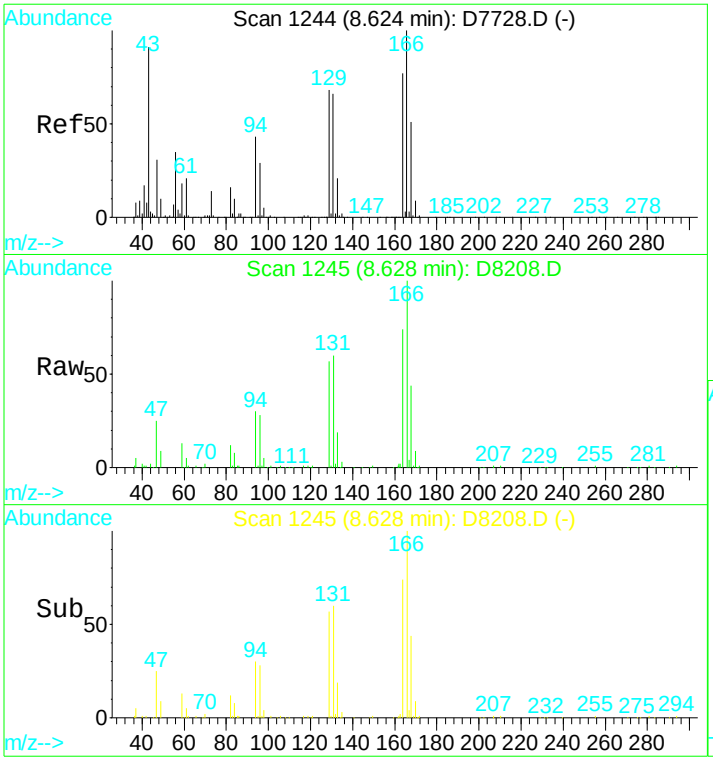
#49
Benzene
Concen: 0.20 ug/L
RT: 5.40 min Scan# 714
Delta R.T. -0.00 min
Lab File: D8208.D
Acq: 15 Sep 2017 5:02 pm

Tgt Ion: 78 Resp: 1530

Ion	Ratio	Lower	Upper
78	100		
51	17.5	0.0	37.8
52	8.2	0.0	35.4



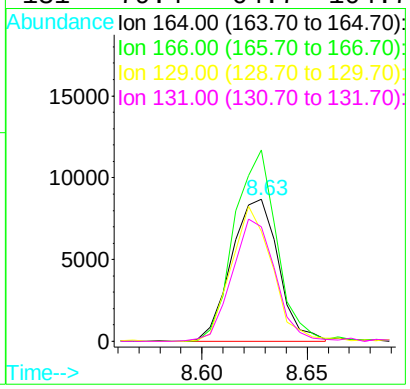
1st DL 09/18/17
2nd BA 09/20/17



#74
Tetrachloroethene
Concen: 6.24 ug/L
RT: 8.63 min Scan# 1245
Delta R.T. 0.00 min
Lab File: D8208.D
Acq: 15 Sep 2017 5:02 pm

Tgt Ion:164 Resp: 13498

Ion	Ratio	Lower	Upper
164	100		
166	123.2	111.1	151.1
129	84.0	67.3	107.3
131	79.4	64.7	104.7



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8205.D Vial: 19
Acq On : 15 Sep 2017 3:44 pm Operator: D.Lipani
Sample : R1708648-014|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:11 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

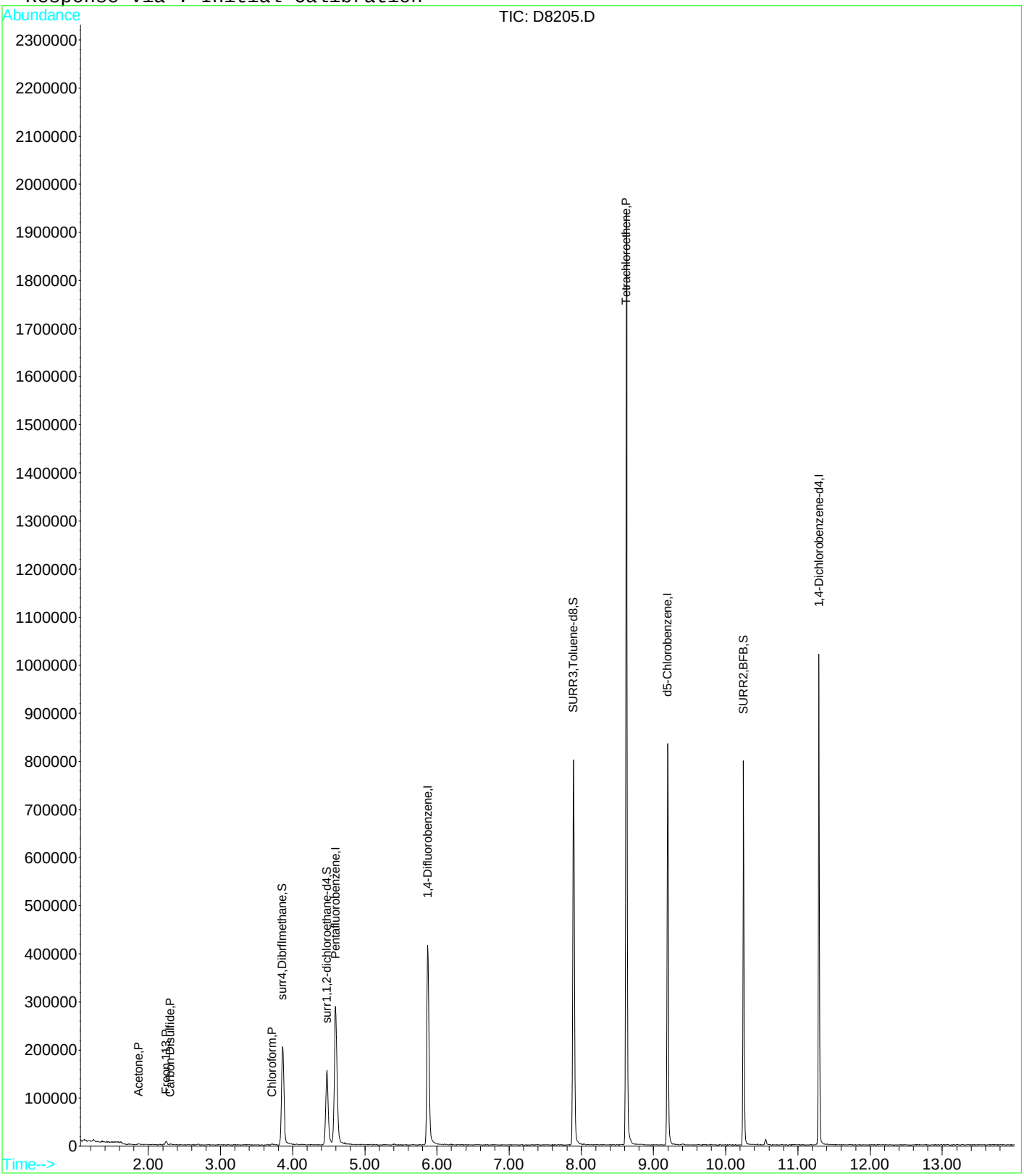
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	287511	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	393686	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	184149	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	201604	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	140791	49.86	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.72%			
43) surr1,1,2-dichloroethane-d	4.47	65	149604	48.92	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.84%			
65) SURR3,Toluene-d8	7.89	98	436939	54.81	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.62%			
86) SURR2,BFB	10.25	95	174802	50.68	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.36%			
Target Compounds						Qvalue
14) Acetone	1.87	43	1810	3.36	ug/L	89
21) Freon 113	2.25	101	2218	0.98	ug/L	84
24) Carbon Disulfide	2.31	76	1432	0.24	ug/L	76
35) Chloroform	3.72	83	917	0.24	ug/L #	56
74) Tetrachloroethene	8.63	164	359138	163.35	ug/L	97

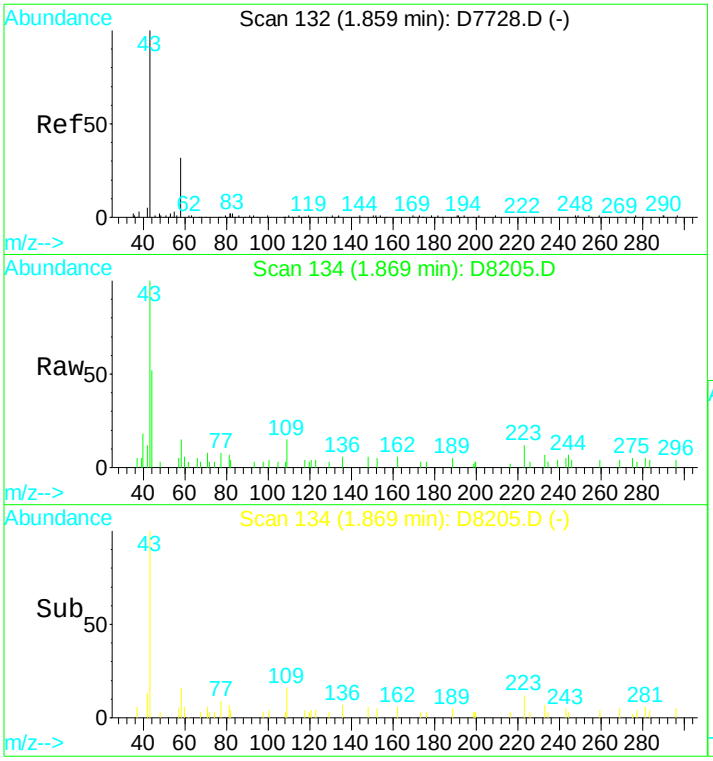
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8205.D Vial: 19
Acq On : 15 Sep 2017 3:44 pm Operator: D.Lipani
Sample : R1708648-014|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:11 2017 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

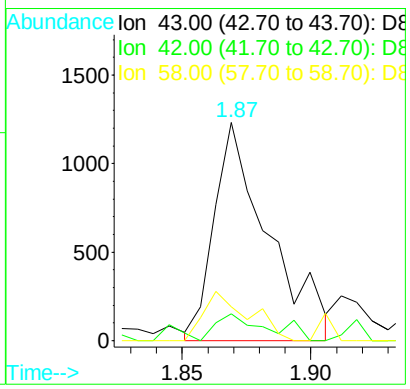


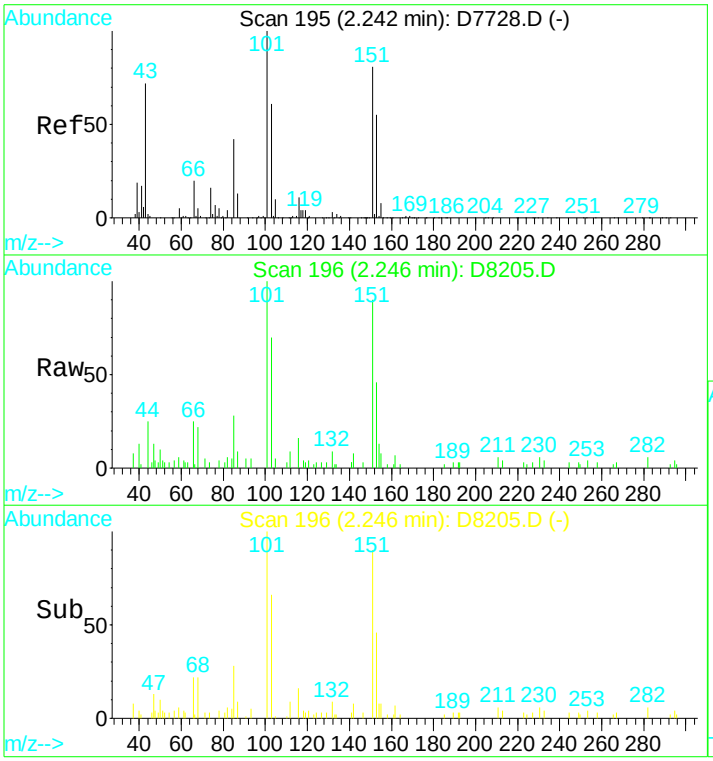


#14
Acetone
Concen: 3.36 ug/L
RT: 1.87 min Scan# 134
Delta R.T. 0.01 min
Lab File: D8205.D
Acq: 15 Sep 2017 3:44 pm

Tgt Ion: 43 Resp: 1810

Ion	Ratio	Lower	Upper
43	100		
42	12.3	0.0	31.4
58	15.5	3.1	43.1

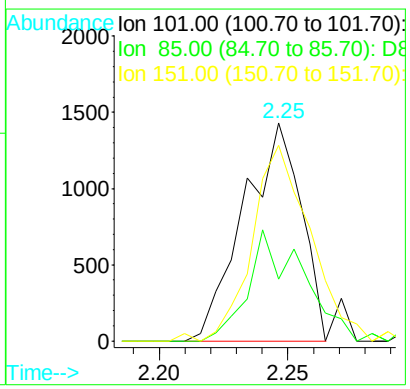


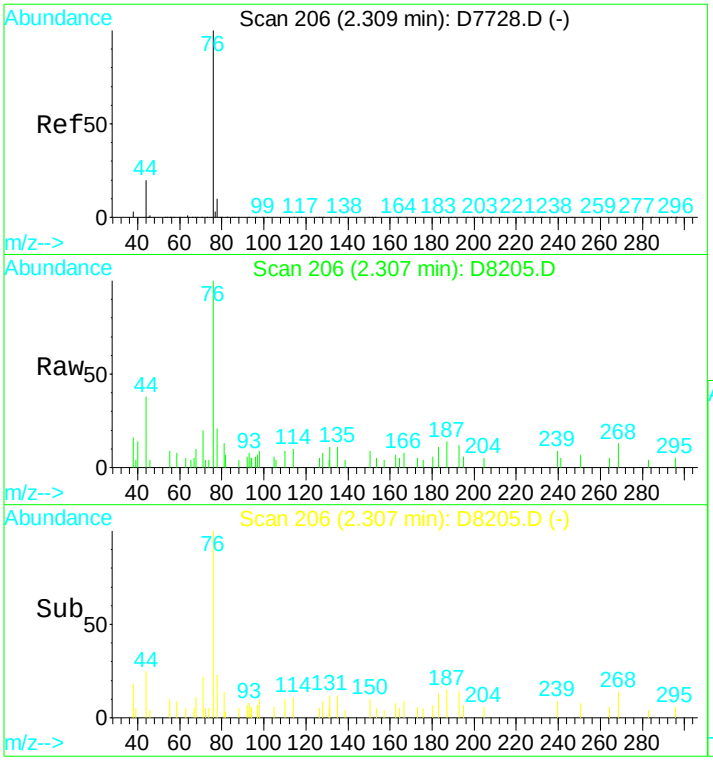


#21
Freon 113
Concen: 0.98 ug/L
RT: 2.25 min Scan# 196
Delta R.T. 0.00 min
Lab File: D8205.D
Acq: 15 Sep 2017 3:44 pm

Tgt Ion:101 Resp: 2218

Ion	Ratio	Lower	Upper
101	100		
85	28.5	25.6	65.6
151	89.7	61.0	101.0

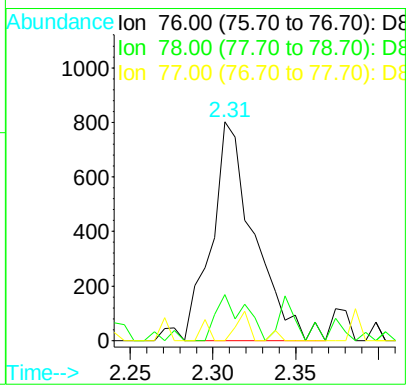


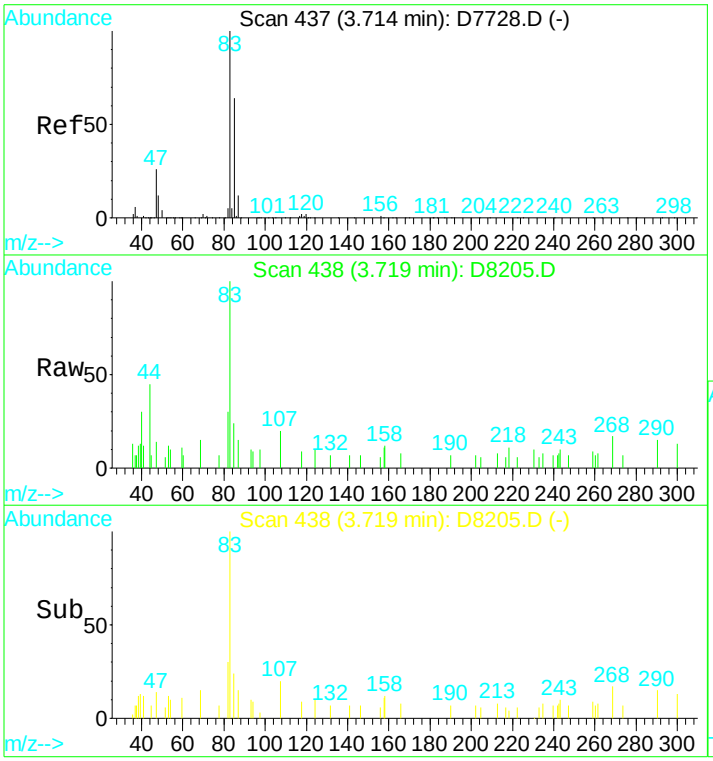


#24
Carbon Disulfide
Concen: 0.24 ug/L
RT: 2.31 min Scan# 206
Delta R.T. -0.00 min
Lab File: D8205.D
Acq: 15 Sep 2017 3:44 pm

Tgt Ion: 76 Resp: 1432

Ion	Ratio	Lower	Upper
76	100		
78	21.1	0.0	30.5
77	0.0	0.0	23.3

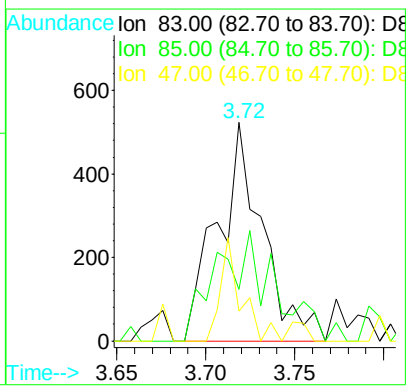




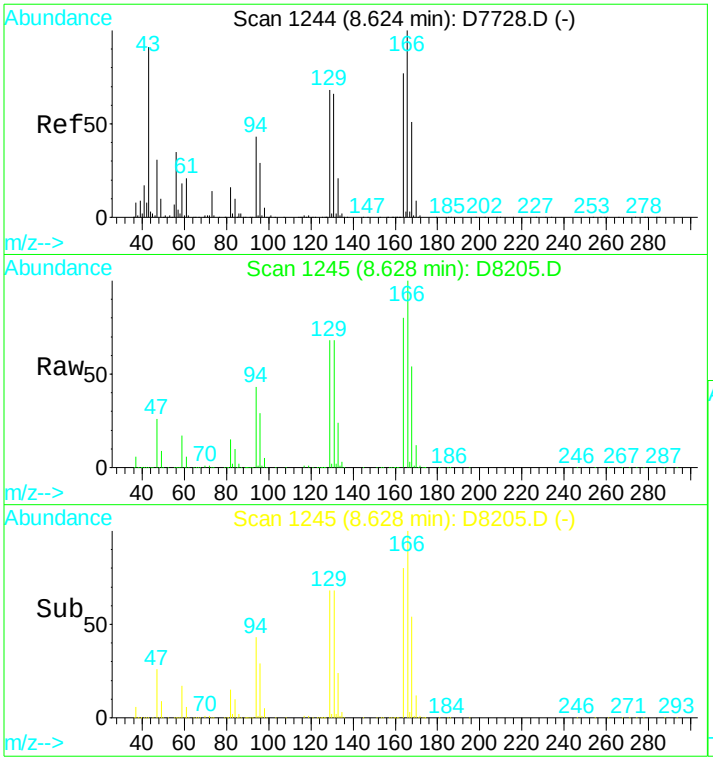
#35
Chloroform
Concen: 0.24 ug/L
RT: 3.72 min Scan# 438
Delta R.T. 0.00 min
Lab File: D8205.D
Acq: 15 Sep 2017 3:44 pm

Tgt Ion: 83 Resp: 917

Ion	Ratio	Lower	Upper
83	100		
85	23.7	43.9	83.9#
47	13.8	8.1	48.1



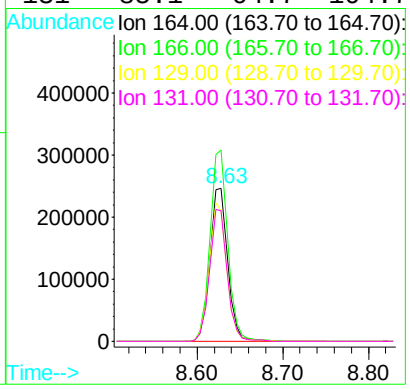
1st DL 09/18/17
2nd BA 09/20/17



#74
Tetrachloroethene
Concen: 163.35 ug/L
RT: 8.63 min Scan# 1245
Delta R.T. 0.00 min
Lab File: D8205.D
Acq: 15 Sep 2017 3:44 pm

Tgt Ion:164 Resp: 359138

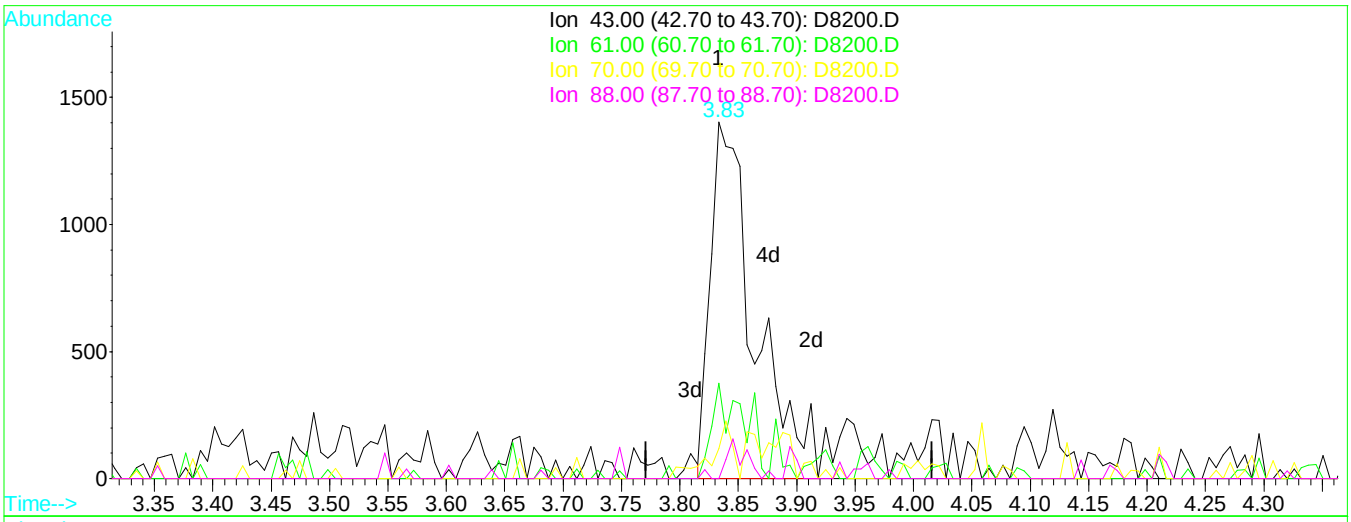
Ion	Ratio	Lower	Upper
164	100		
166	124.7	111.1	151.1
129	87.8	67.3	107.3
131	85.1	64.7	104.7

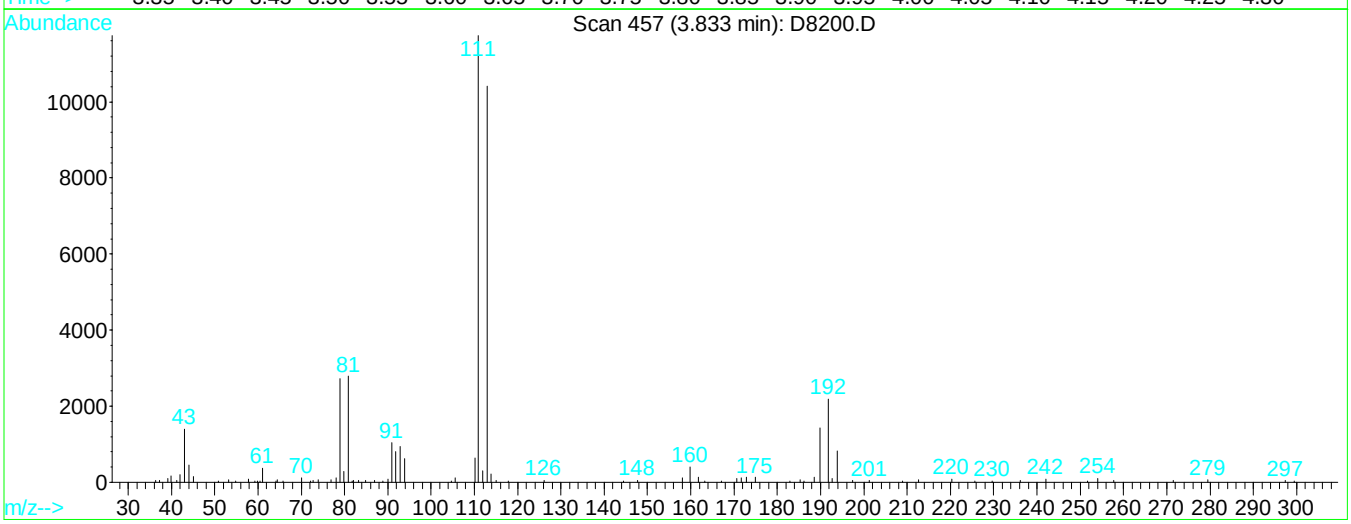


Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8200.D Vial: 14
Acq On : 15 Sep 2017 1:32 pm Operator: D.Lipani
Sample : R1708648-015|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:55 2017 Quant Results File: temp.res

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





TIC: D8200.D

(37) Ethyl Acetate

3.83min 2.53ug/L m

response 3714

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	26.71
70.00	10.60	8.48
88.00	4.70	0.00

Manual Integration:

After

Split Peak.

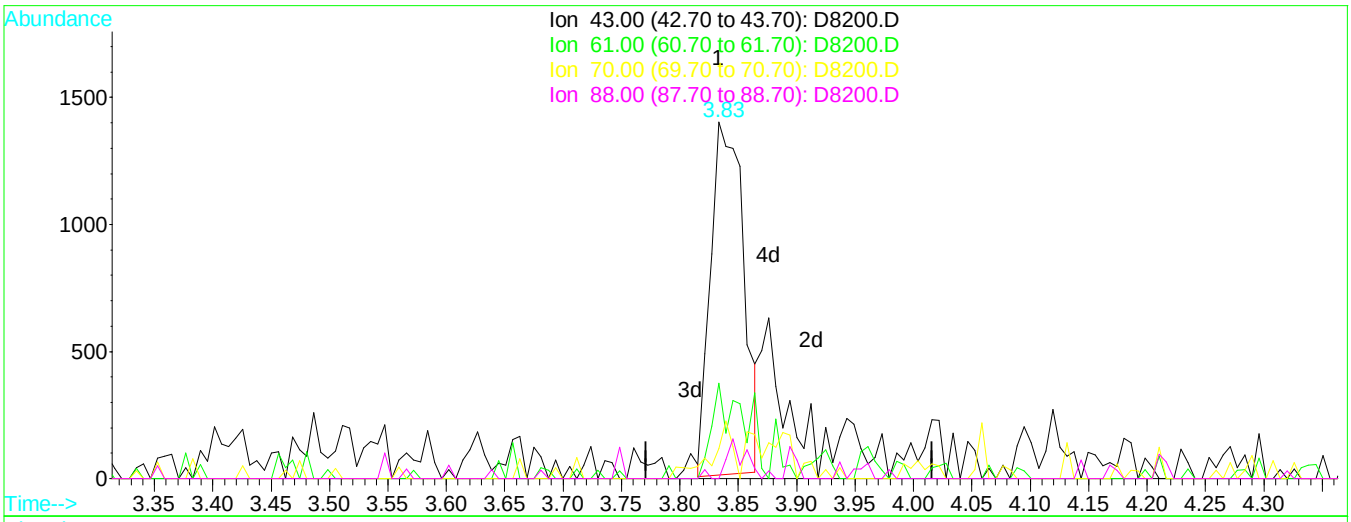
09/18/17

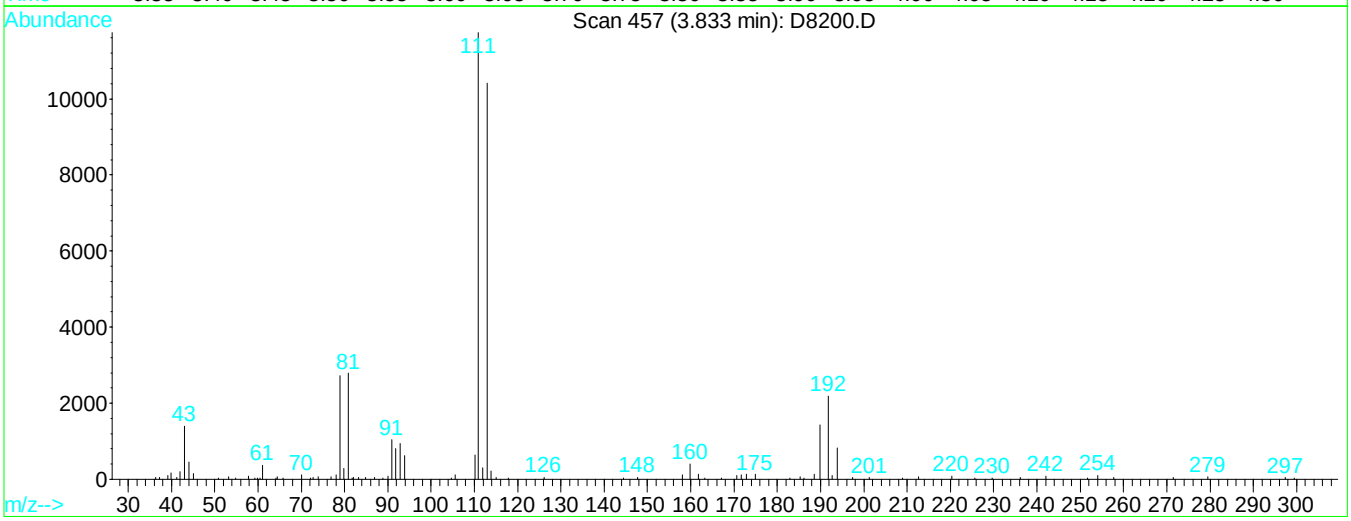
D8200.D W082417.M Mon Sep 18 12:55:48 2017

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8200.D Vial: 14
Acq On : 15 Sep 2017 1:32 pm Operator: D.Lipani
Sample : R1708648-015|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:55 2017 Quant Results File: temp.res

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





TIC: D8200.D

(37) Ethyl Acetate

3.83min 1.85ug/L

response 2724

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	26.71
70.00	10.60	8.48
88.00	4.70	0.00

Manual Integration:

Before

09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8200.D Vial: 14
Acq On : 15 Sep 2017 1:32 pm Operator: D.Lipani
Sample : R1708648-015|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:58 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

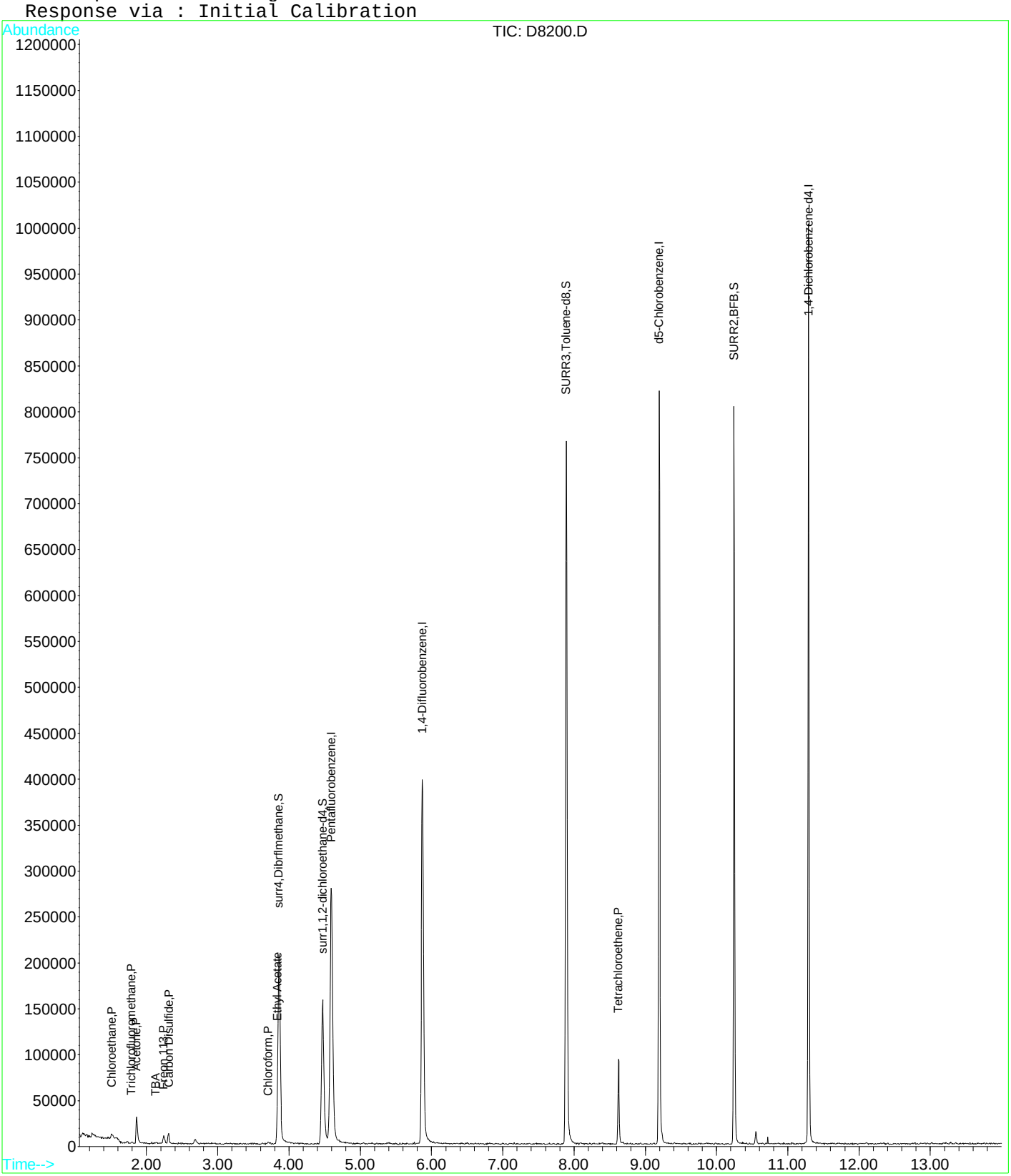
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	279946	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	381444	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	184649	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	203565	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	141470	51.71	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.42%			
43) surr1,1,2-dichloroethane-d	4.47	65	150007	50.62	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 101.24%			
65) SURR3,Toluene-d8	7.89	98	426143	55.17	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.34%			
86) SURR2,BFB	10.25	95	178392	51.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.16%			
Target Compounds						Qvalue
6) Chloroethane	1.51	64	1741	1.04	ug/L #	66
11) Trichlorofluoromethane	1.79	101	1300	0.34	ug/L #	65
14) Acetone	1.86	43	28036	53.50	ug/L	89
18) TBA	2.14	59	994	5.54	ug/L	59
21) Freon 113	2.25	101	2840	1.29	ug/L	79
24) Carbon Disulfide	2.31	76	11408	1.93	ug/L	96
35) Chloroform	3.71	83	1233	0.33	ug/L	92
37) Ethyl Acetate	3.83	43	3714m	2.53	ug/L	
74) Tetrachloroethene	8.62	164	17057	7.74	ug/L	99

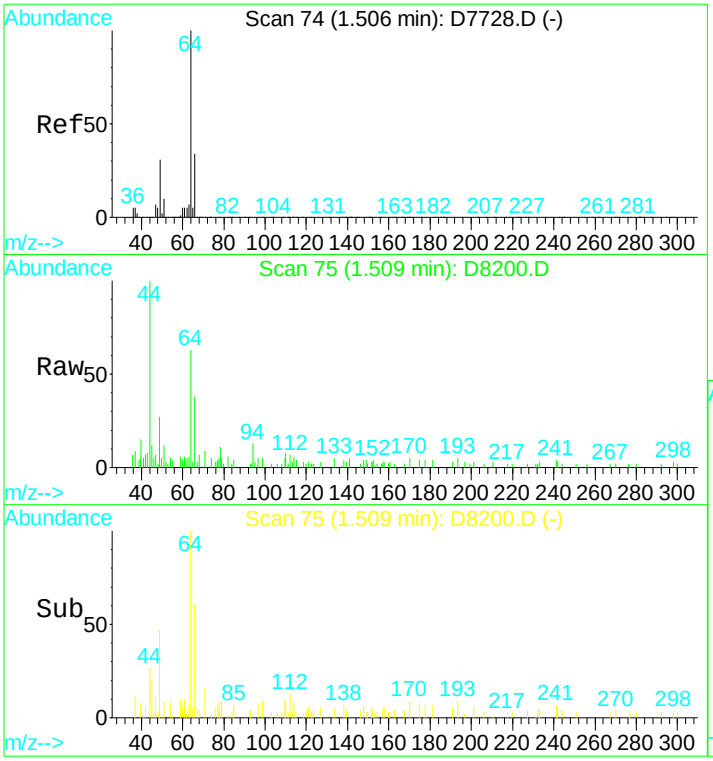
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8200.D Vial: 14
Acq On : 15 Sep 2017 1:32 pm Operator: D.Lipani
Sample : R1708648-015|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 12:58 2017 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

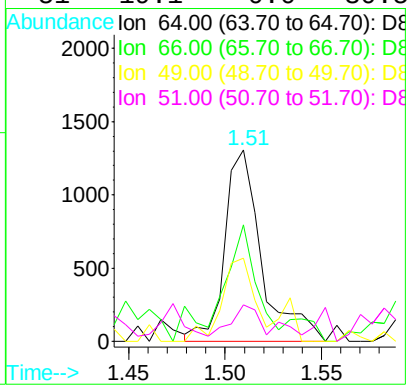


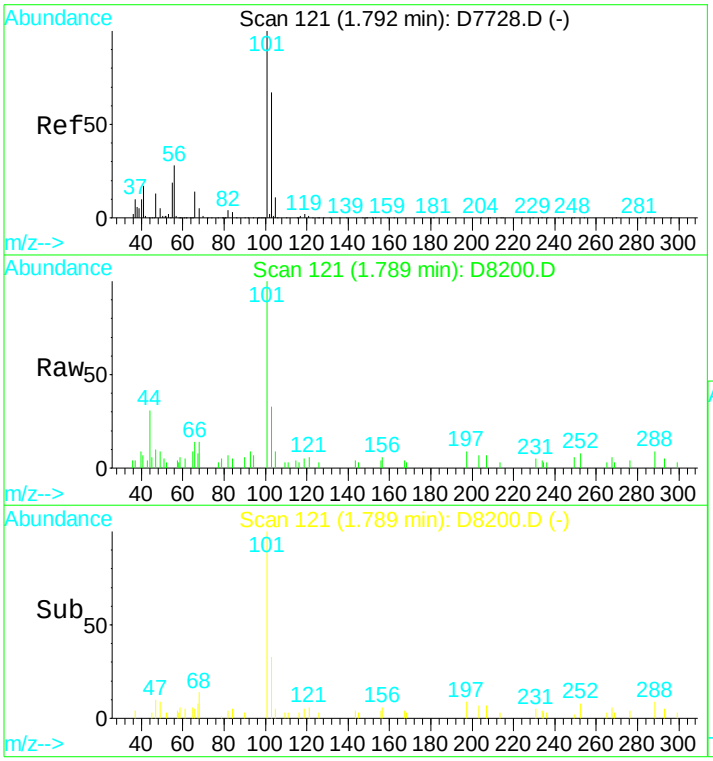


#6
Chloroethane
Concen: 1.04 ug/L
RT: 1.51 min Scan# 75
Delta R.T. 0.00 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion: 64 Resp: 1741

Ion	Ratio	Lower	Upper
64	100		
66	60.9	14.3	54.3#
49	43.5	10.7	50.7
51	19.1	0.0	30.5

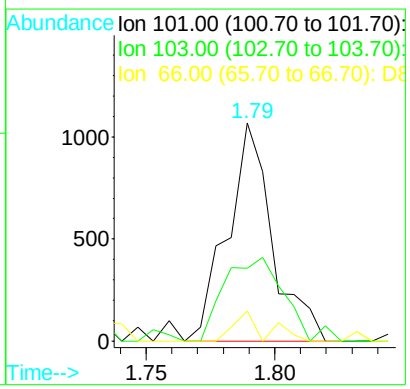


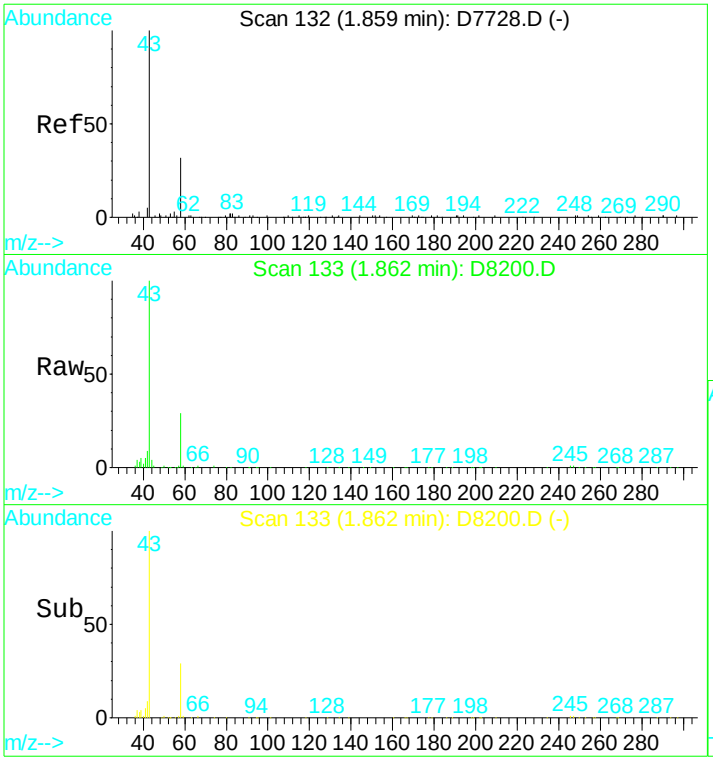


#11
Trichlorofluoromethane
Concen: 0.34 ug/L
RT: 1.79 min Scan# 121
Delta R.T. -0.00 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion:101 Resp: 1300

Ion	Ratio	Lower	Upper
101	100		
103	33.3	47.2	87.2#
66	13.6	0.0	34.0

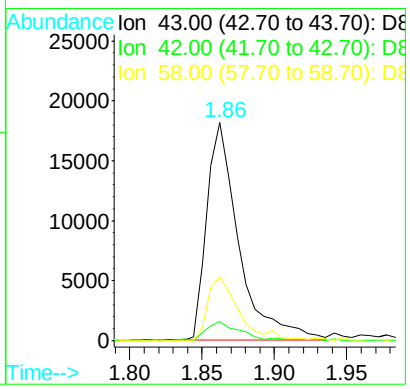


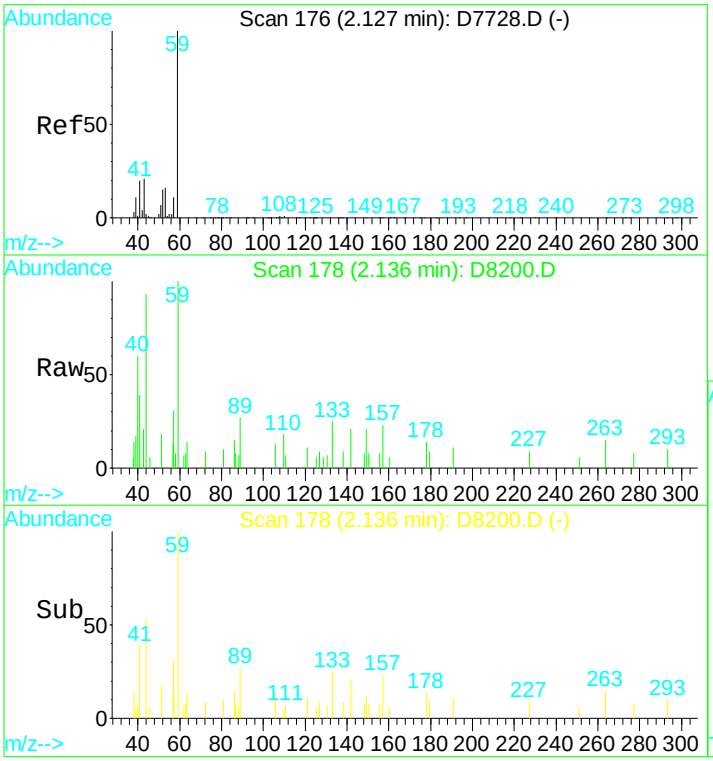


#14
Acetone
Concen: 53.50 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.00 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion: 43 Resp: 28036

Ion	Ratio	Lower	Upper
43	100		
42	8.7	0.0	31.4
58	29.4	3.1	43.1

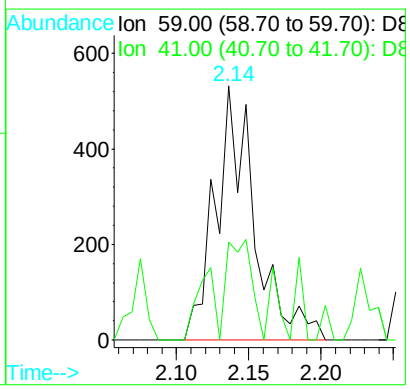


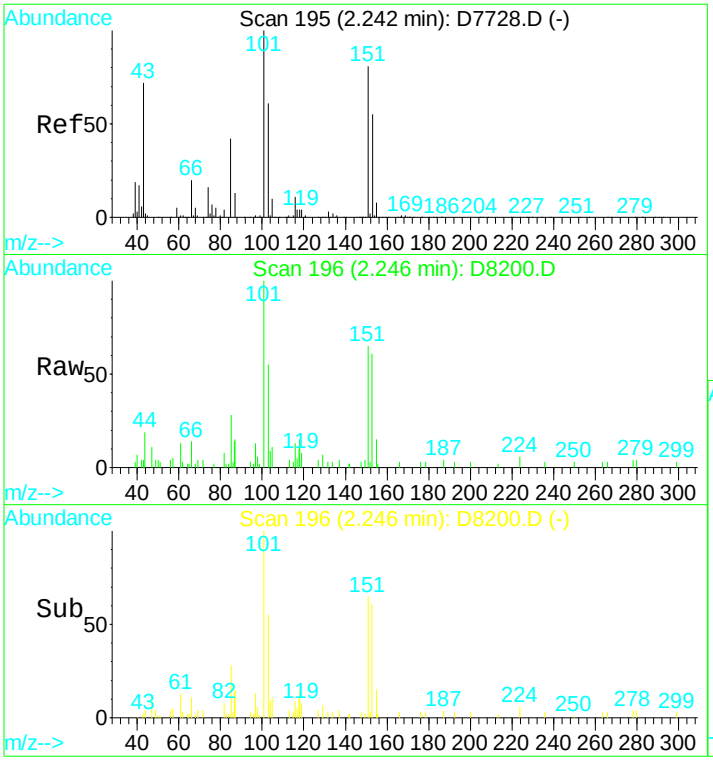


#18
TBA
Concen: 5.54 ug/L
RT: 2.14 min Scan# 178
Delta R.T. 0.01 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion: 59 Resp: 994

Ion	Ratio	Lower	Upper
59	100		
41	38.5	0.0	39.9

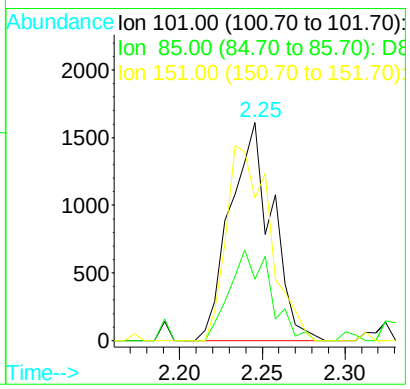


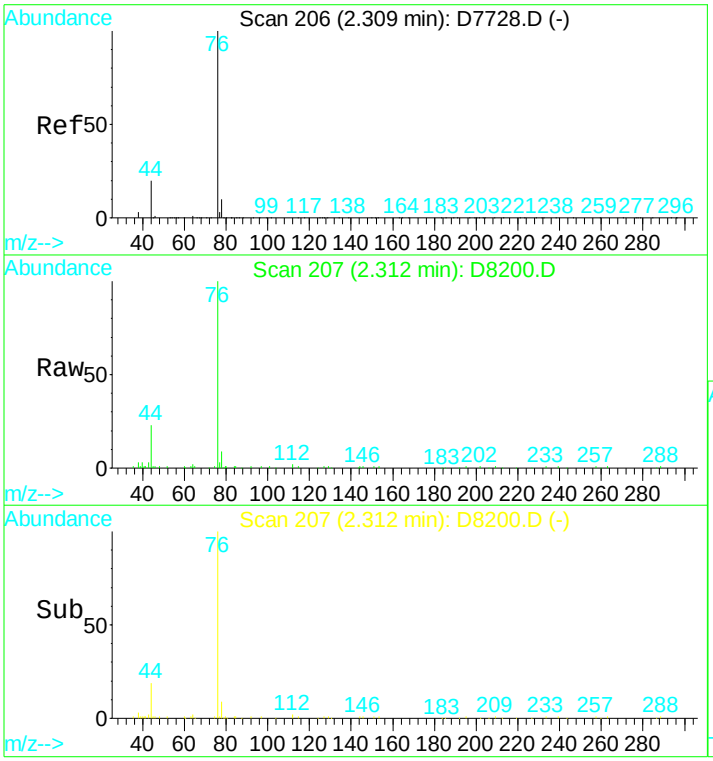


#21
Freon 113
Concen: 1.29 ug/L
RT: 2.25 min Scan# 196
Delta R.T. 0.00 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion:101 Resp: 2840

Ion	Ratio	Lower	Upper
101	100		
85	28.2	25.6	65.6
151	65.4	61.0	101.0

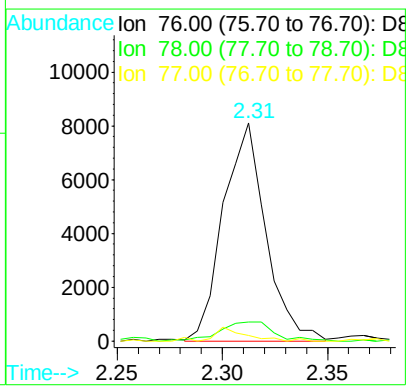


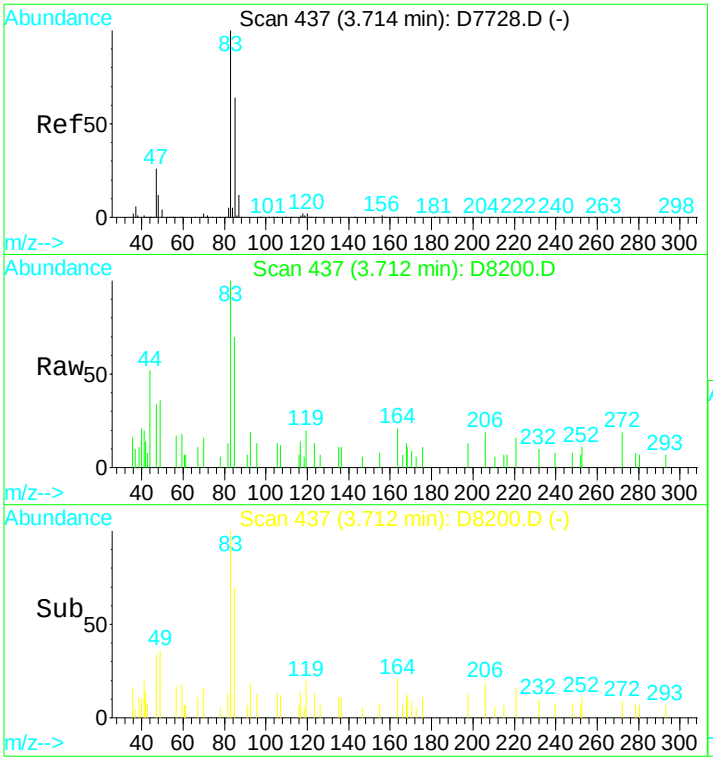


#24
Carbon Disulfide
Concen: 1.93 ug/L
RT: 2.31 min Scan# 207
Delta R.T. 0.00 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion: 76 Resp: 11408

Ion	Ratio	Lower	Upper
76	100		
78	8.7	0.0	30.5
77	2.7	0.0	23.3

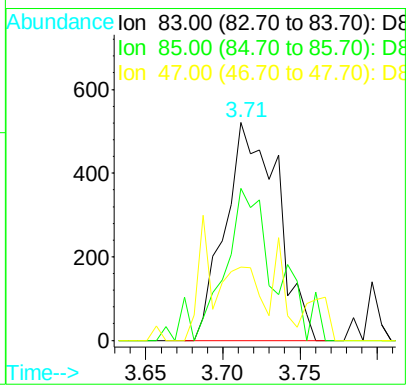


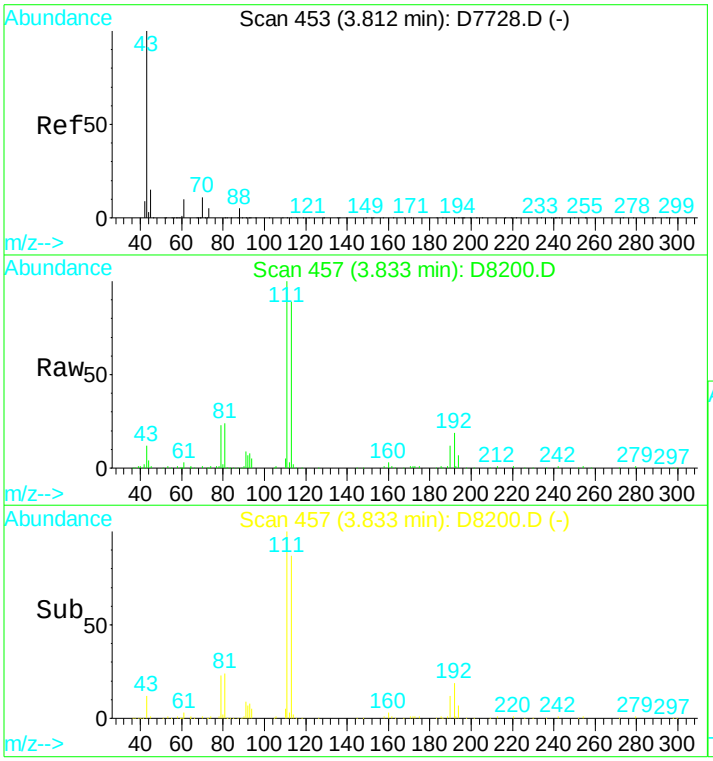


#35
Chloroform
Concen: 0.33 ug/L
RT: 3.71 min Scan# 437
Delta R.T. -0.00 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion: 83 Resp: 1233

Ion	Ratio	Lower	Upper
83	100		
85	69.7	43.9	83.9
47	33.7	8.1	48.1

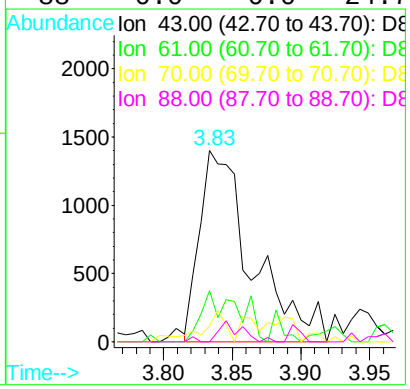




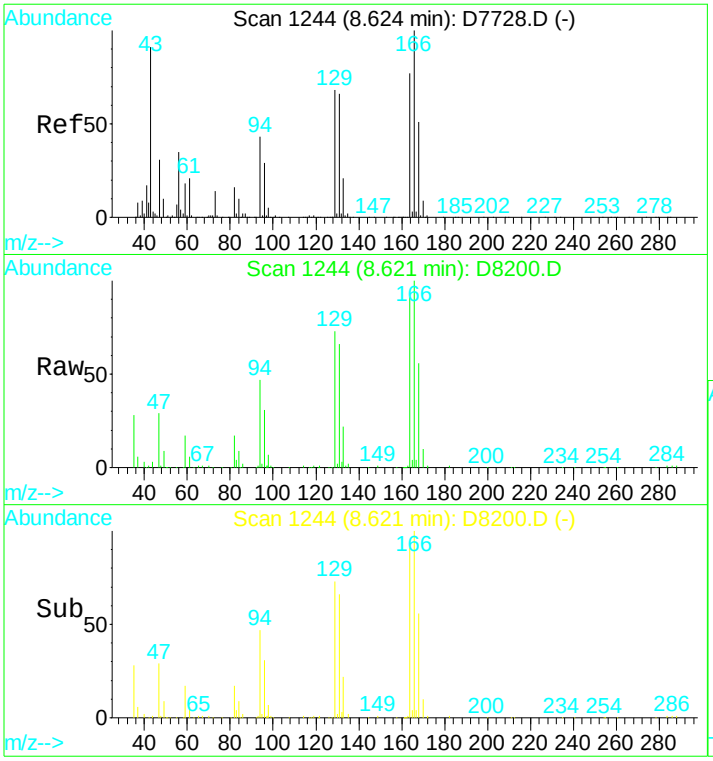
#37
Ethyl Acetate
Concen: 2.53 ug/L m
RT: 3.83 min Scan# 457
Delta R.T. 0.02 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion: 43 Resp: 3714

Ion	Ratio	Lower	Upper
43	100		
61	26.7	1.7	41.7
70	8.5	0.0	30.6
88	0.0	0.0	24.7



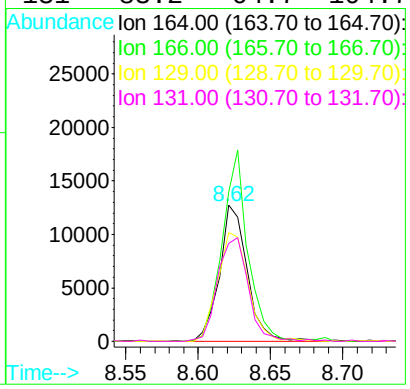
1st DL 09/18/17
2nd BA 09/20/17



#74
Tetrachloroethene
Concen: 7.74 ug/L
RT: 8.62 min Scan# 1244
Delta R.T. -0.00 min
Lab File: D8200.D
Acq: 15 Sep 2017 1:32 pm

Tgt Ion:164 Resp: 17057

Ion	Ratio	Lower	Upper
164	100		
166	129.9	111.1	151.1
129	88.9	67.3	107.3
131	83.2	64.7	104.7



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8212.D Vial: 26
Acq On : 15 Sep 2017 6:46 pm Operator: D.Lipani
Sample : R1708648-016|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:39 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

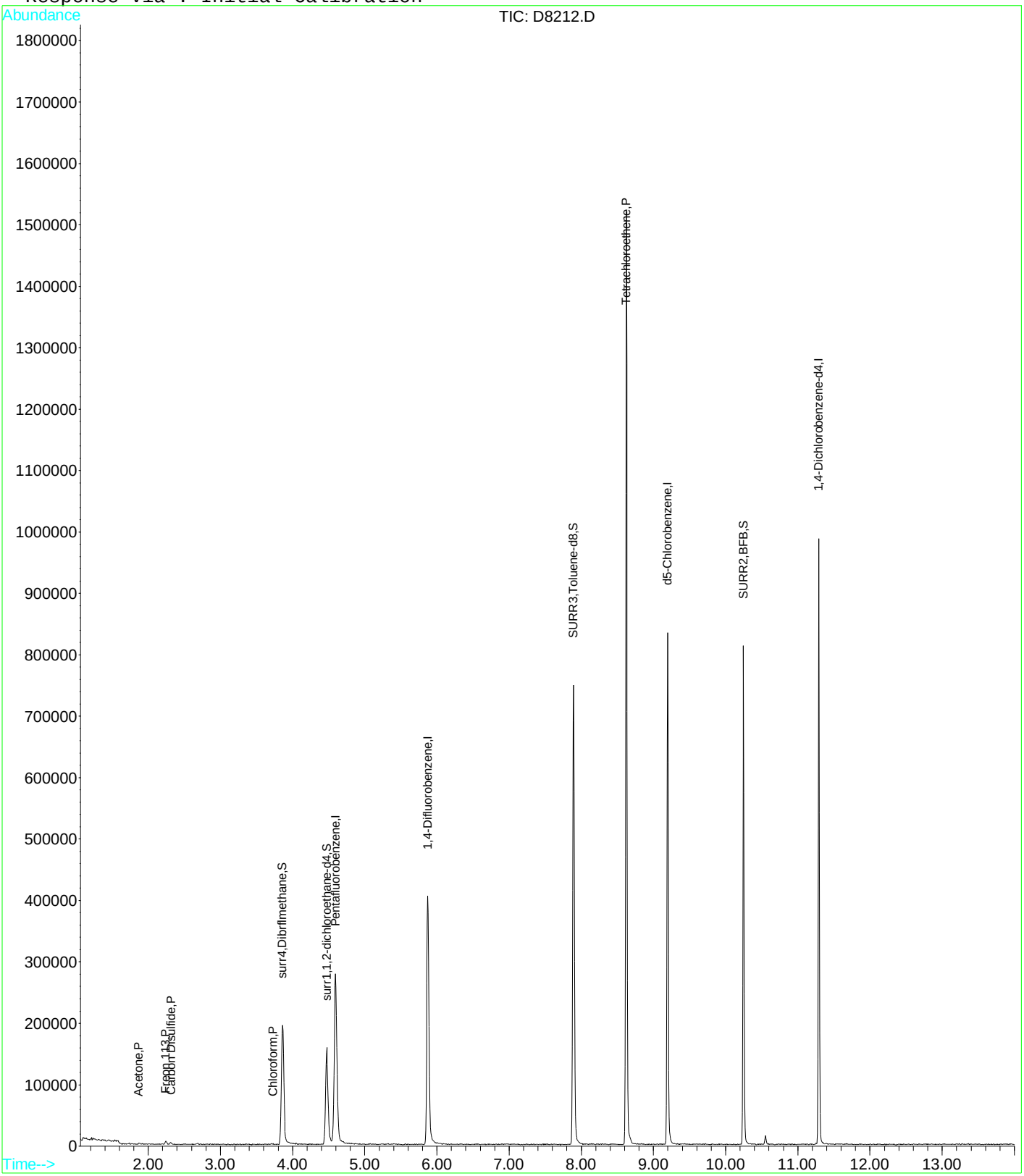
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	276248	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	384389	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	183235	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	201767	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	137842	50.00	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.00%			
43) surr1,1,2-dichloroethane-d	4.47	65	145039	48.57	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.14%			
65) SURR3,Toluene-d8	7.89	98	427138	54.88	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.76%			
86) SURR2,BFB	10.25	95	176005	51.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.56%			
Target Compounds						Qvalue
14) Acetone	1.86	43	1769	3.42	ug/L	84
21) Freon 113	2.24	101	1384	0.64	ug/L	86
24) Carbon Disulfide	2.31	76	3344	0.57	ug/L	92
35) Chloroform	3.73	83	1148	0.31	ug/L #	69
74) Tetrachloroethene	8.62	164	266881	121.99	ug/L	97

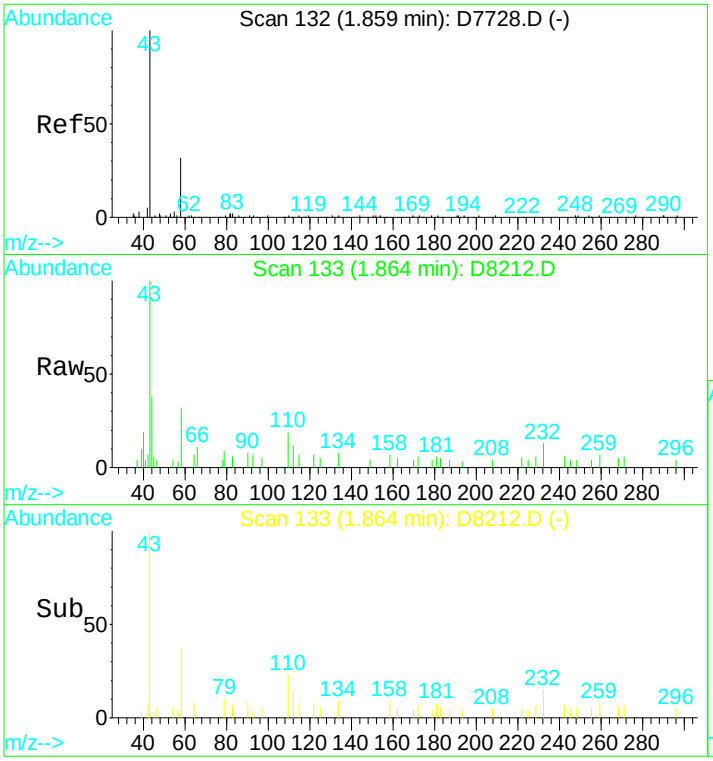
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8212.D Vial: 26
Acq On : 15 Sep 2017 6:46 pm Operator: D.Lipani
Sample : R1708648-016|5.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:39 2017 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

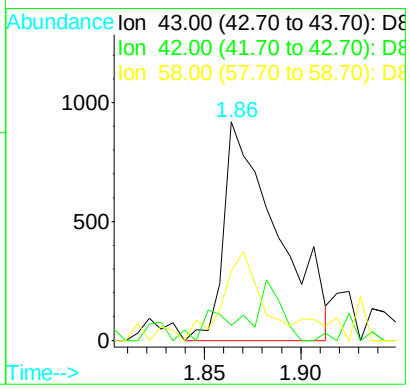


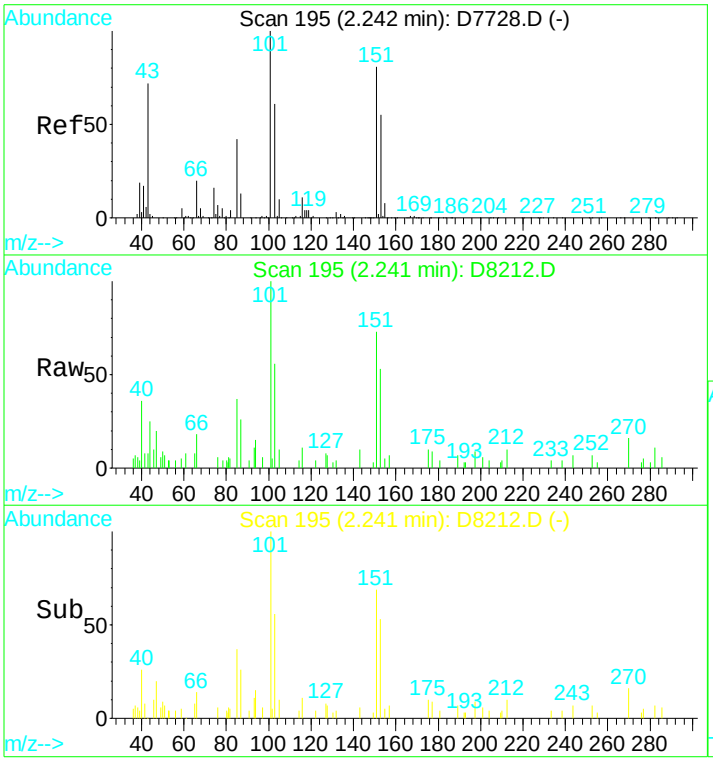


#14
Acetone
Concen: 3.42 ug/L
RT: 1.86 min Scan# 133
Delta R.T. 0.01 min
Lab File: D8212.D
Acq: 15 Sep 2017 6:46 pm

Tgt Ion: 43 Resp: 1769

Ion	Ratio	Lower	Upper
43	100		
42	6.9	0.0	31.4
58	31.9	3.1	43.1

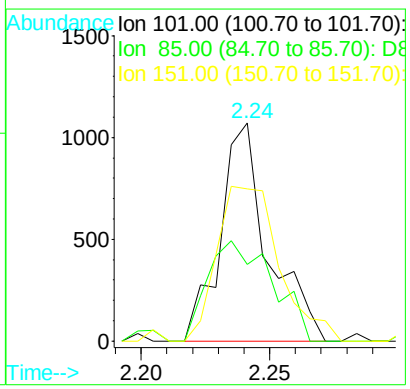


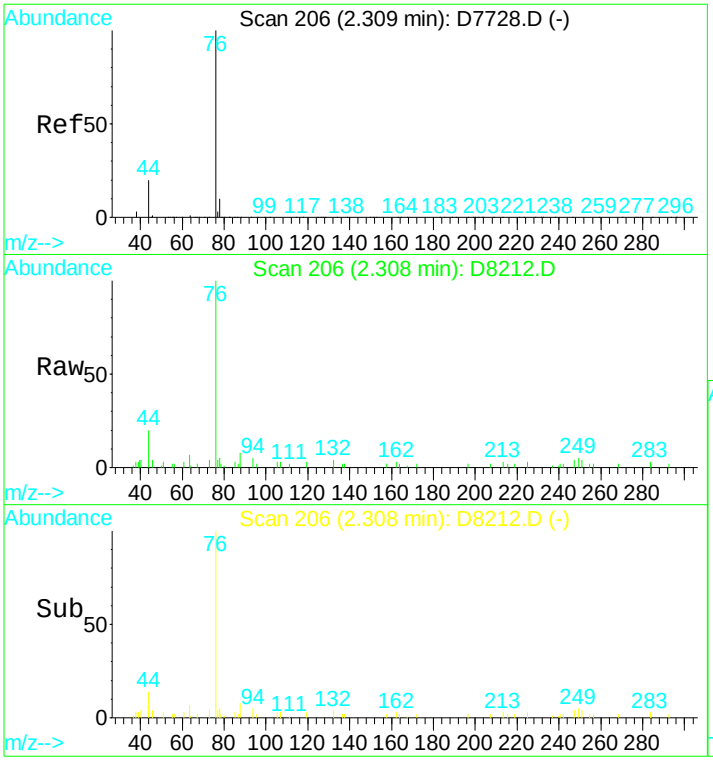


#21
Freon 113
Concen: 0.64 ug/L
RT: 2.24 min Scan# 195
Delta R.T. -0.00 min
Lab File: D8212.D
Acq: 15 Sep 2017 6:46 pm

Tgt Ion:101 Resp: 1384

Ion	Ratio	Lower	Upper
101	100		
85	35.0	25.6	65.6
151	69.7	61.0	101.0

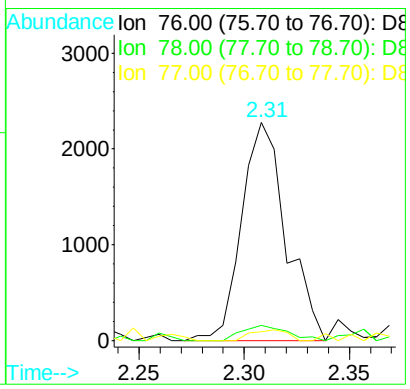


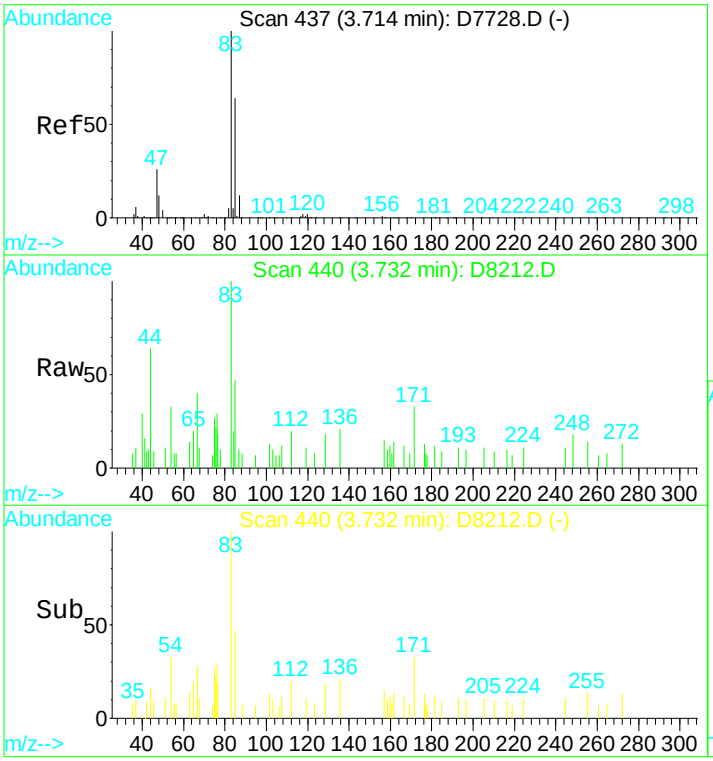


#24
Carbon Disulfide
Concen: 0.57 ug/L
RT: 2.31 min Scan# 206
Delta R.T. -0.00 min
Lab File: D8212.D
Acq: 15 Sep 2017 6:46 pm

Tgt Ion: 76 Resp: 3344

Ion	Ratio	Lower	Upper
76	100		
78	6.8	0.0	30.5
77	4.1	0.0	23.3

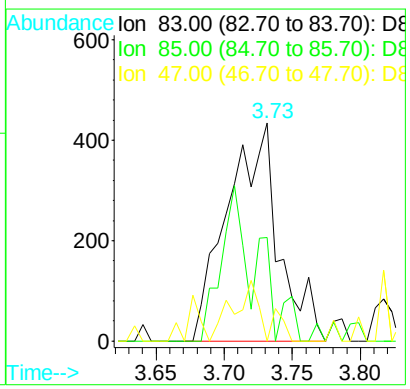




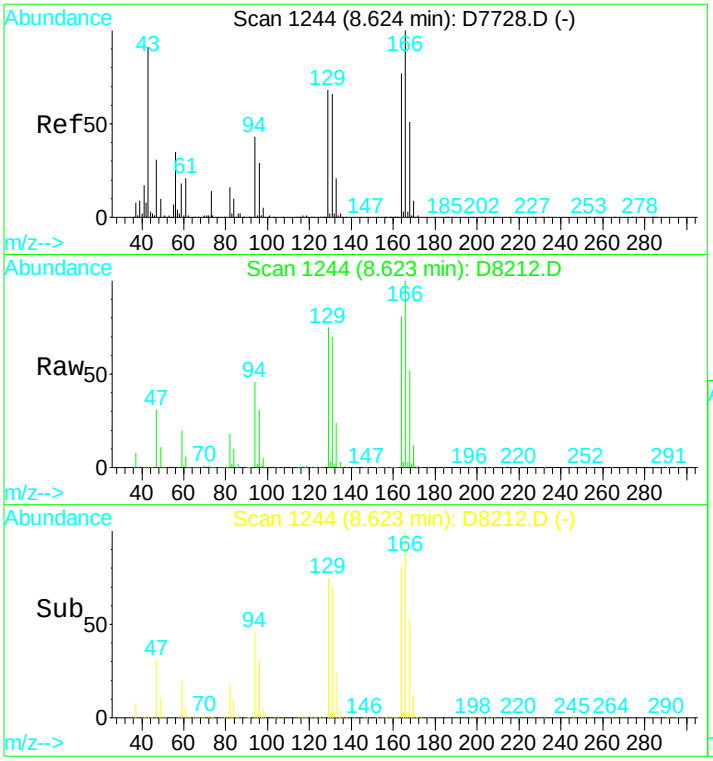
#35
Chloroform
Concen: 0.31 ug/L
RT: 3.73 min Scan# 440
Delta R.T. 0.02 min
Lab File: D8212.D
Acq: 15 Sep 2017 6:46 pm

Tgt Ion: 83 Resp: 1148

Ion	Ratio	Lower	Upper
83	100		
85	47.4	43.9	83.9
47	0.0	8.1	48.1#



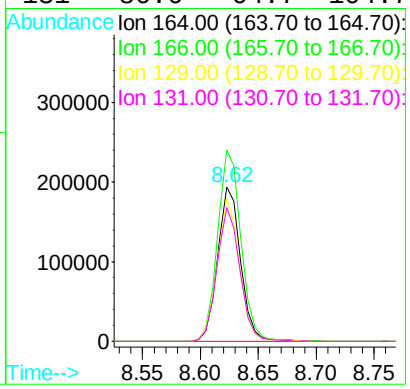
1st DL 09/18/17
2nd BA 09/20/17



#74
Tetrachloroethene
Concen: 121.99 ug/L
RT: 8.62 min Scan# 1244
Delta R.T. -0.00 min
Lab File: D8212.D
Acq: 15 Sep 2017 6:46 pm

Tgt Ion:164 Resp: 266881

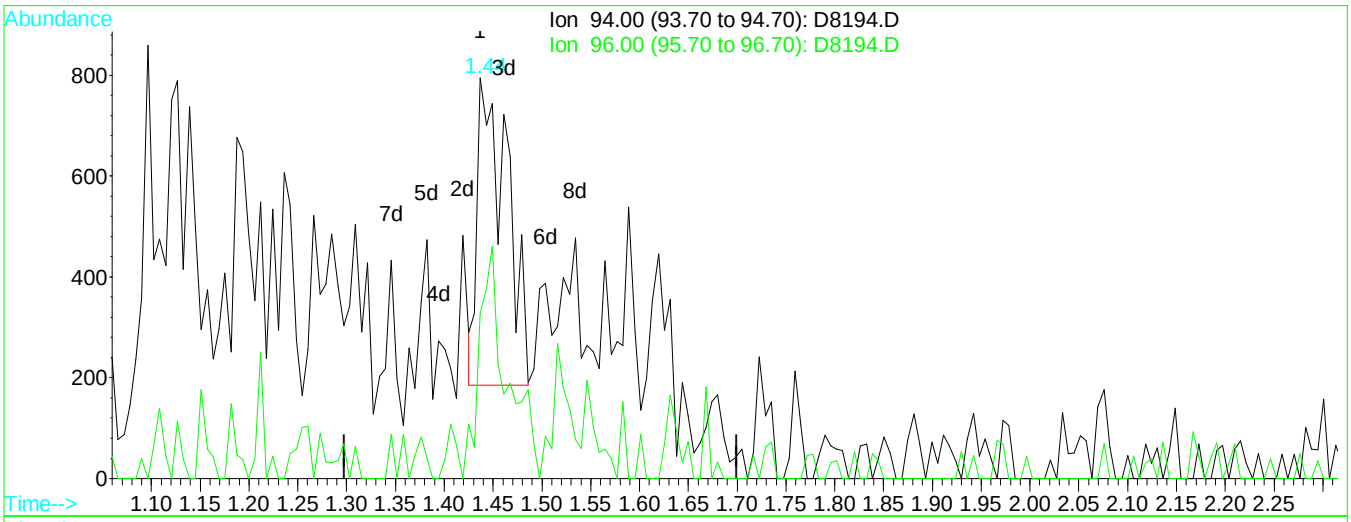
Ion	Ratio	Lower	Upper
164	100		
166	126.9	111.1	151.1
129	90.1	67.3	107.3
131	86.6	64.7	104.7

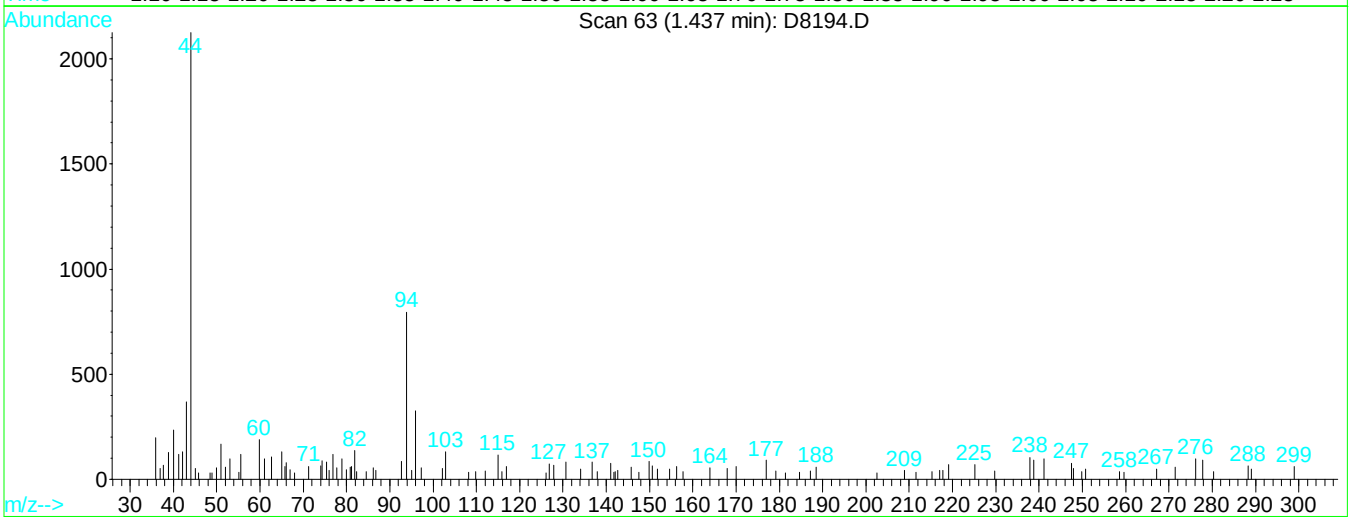


1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8194.D Vial: 8
Acq On : 15 Sep 2017 10:57 am Operator: D.Lipani
Sample : MET BLK Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:09 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: D8194.D

(5) Bromomethane (P)

1.44min 0.59ug/L m

response 1280

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	41.13#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

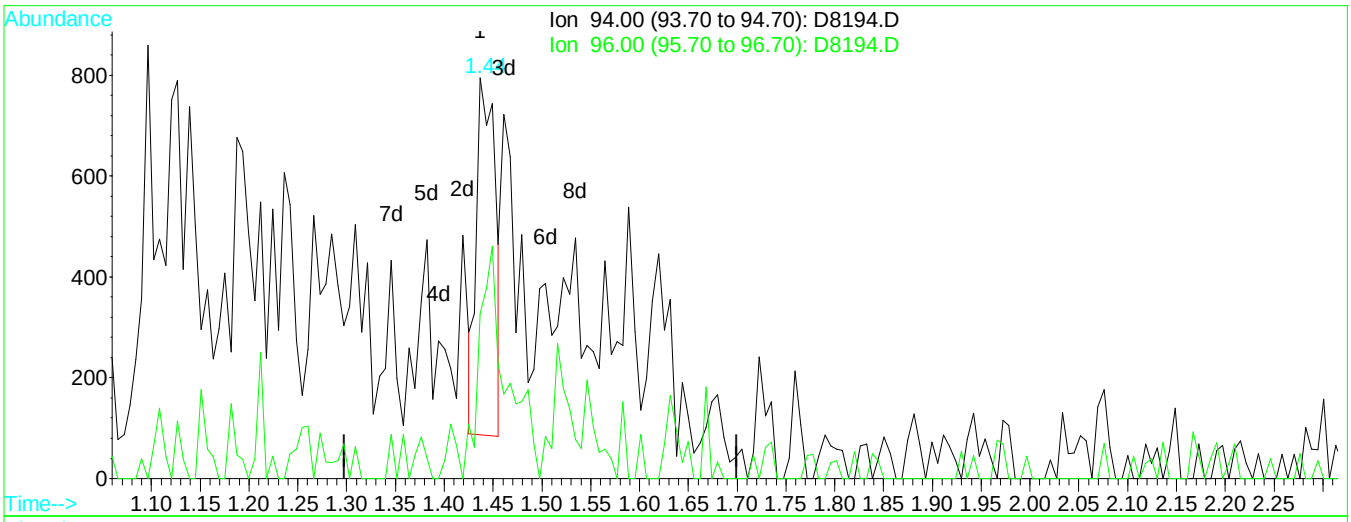
09/18/17

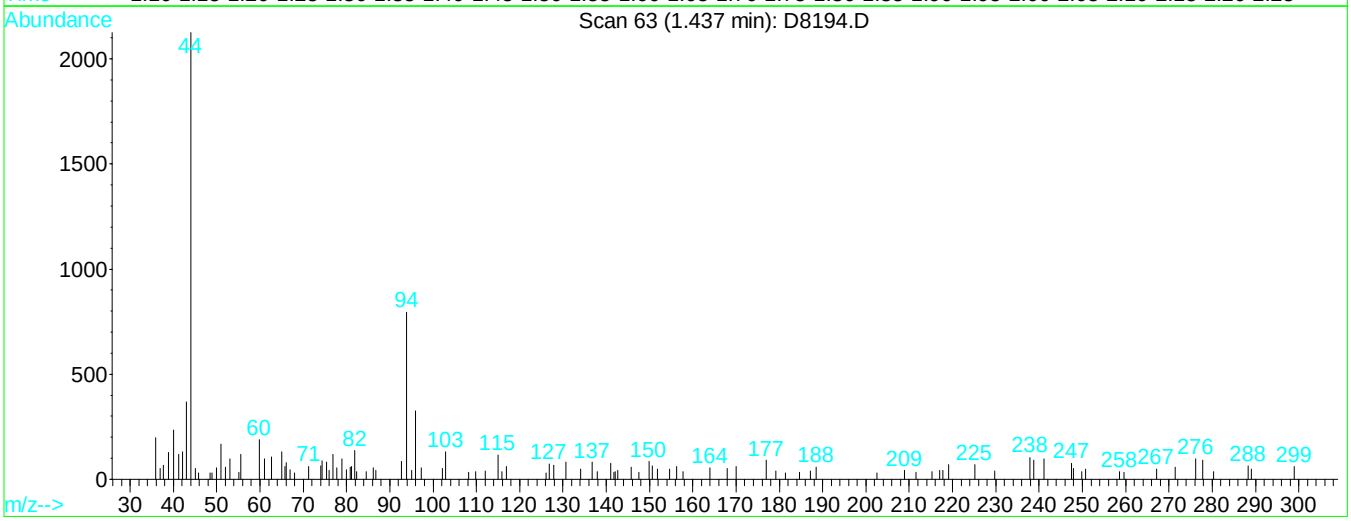
D8194.D W082417.M Mon Sep 18 09:09:43 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8194.D Vial: 8
Acq On : 15 Sep 2017 10:57 am Operator: D.Lipani
Sample : MET BLK Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 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 11:23:15 2017
Response via : Multiple Level Calibration





TIC: D8194.D

(5) Bromomethane (P)

1.44min 0.44ug/L

response 948

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	41.13#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8194.D W082417.M Mon Sep 18 09:09:27 2017

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8194.D Vial: 8
Acq On : 15 Sep 2017 10:57 am Operator: D.Lipani
Sample : MET BLK Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:11 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

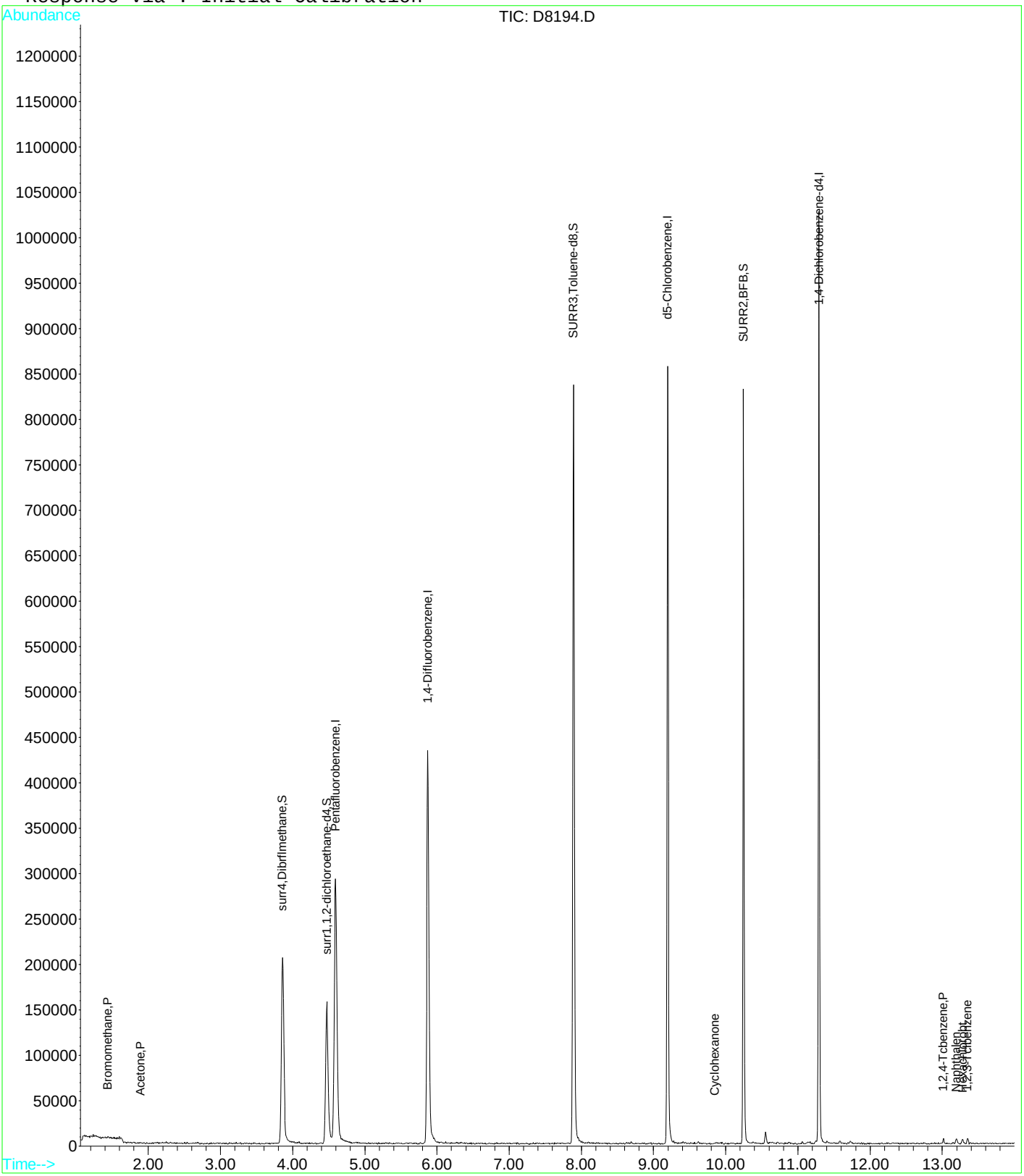
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	292995	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	403145	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	188978	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	205837	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	144230	49.88	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.76%			
43) surr1,1,2-dichloroethane-d	4.47	65	150011	47.90	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 95.80%			
65) SURR3,Toluene-d8	7.89	98	450848	55.23	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.46%			
86) SURR2,BFB	10.25	95	182207	51.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.96%			
Target Compounds						Qvalue
5) Bromomethane	1.44	94	1280m	0.59	ug/L	
14) Acetone	1.89	43	243	0.44	ug/L	73
81) Cyclohexanone	9.85	55	195	2.69	ug/L #	52
105) 1,2,4-Tcbenzene	13.01	180	1213	0.34	ug/L	82
106) Naphthalen	13.20	128	3103	0.46	ug/L	94
107) Hexachlorobt	13.28	225	764	0.44	ug/L	87
108) 1,2,3-Tclbenzene	13.35	180	1195	0.39	ug/L	83

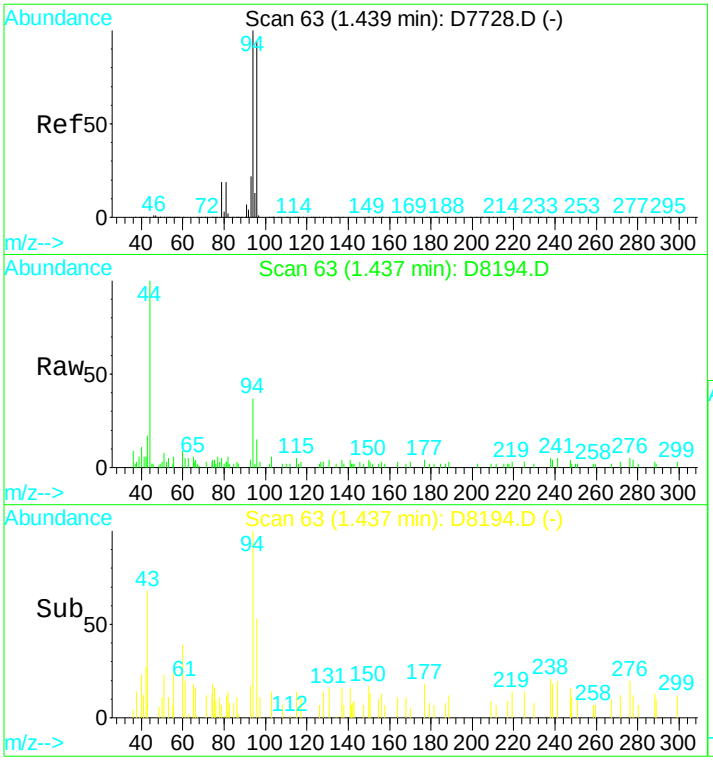
(#) = qualifier out of range (m) = manual integration

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8194.D Vial: 8
Acq On : 15 Sep 2017 10:57 am Operator: D.Lipani
Sample : MET BLK Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 9:11 2017 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

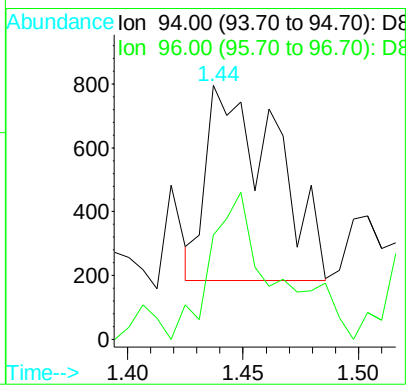


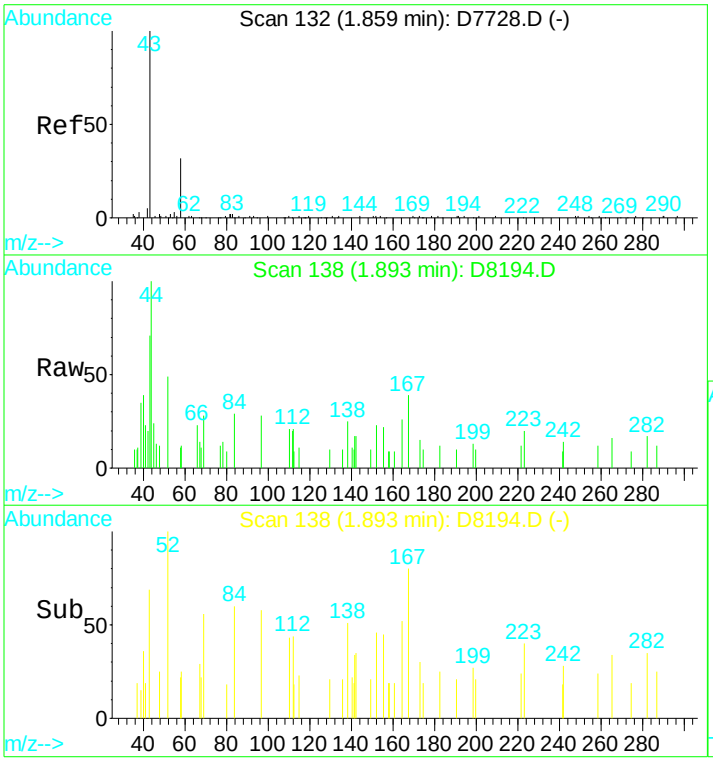


#5
Bromomethane
Concen: 0.59 ug/L m
RT: 1.44 min Scan# 63
Delta R.T. -0.00 min
Lab File: D8194.D
Acq: 15 Sep 2017 10:57 am

Tgt Ion: 94 Resp: 1280

Ion	Ratio	Lower	Upper
94	100		
96	41.1	73.7	113.7#

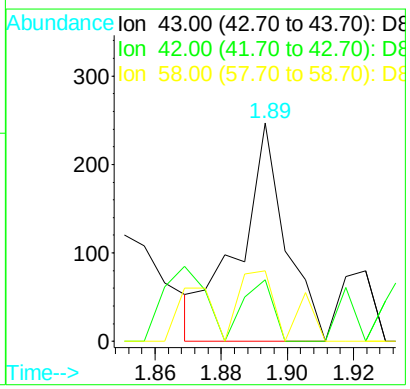


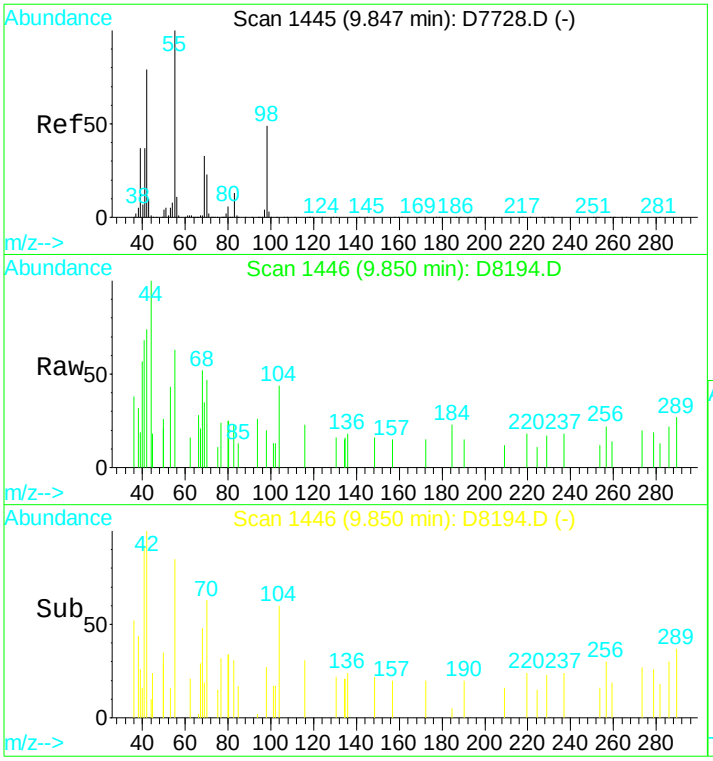


#14
Acetone
Concen: 0.44 ug/L
RT: 1.89 min Scan# 138
Delta R.T. 0.03 min
Lab File: D8194.D
Acq: 15 Sep 2017 10:57 am

Tgt Ion: 43 Resp: 243

Ion	Ratio	Lower	Upper
43	100		
42	28.3	0.0	31.4
58	32.4	3.1	43.1

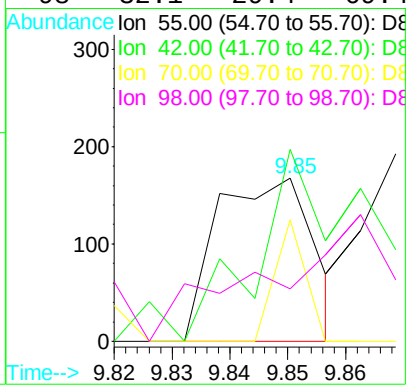


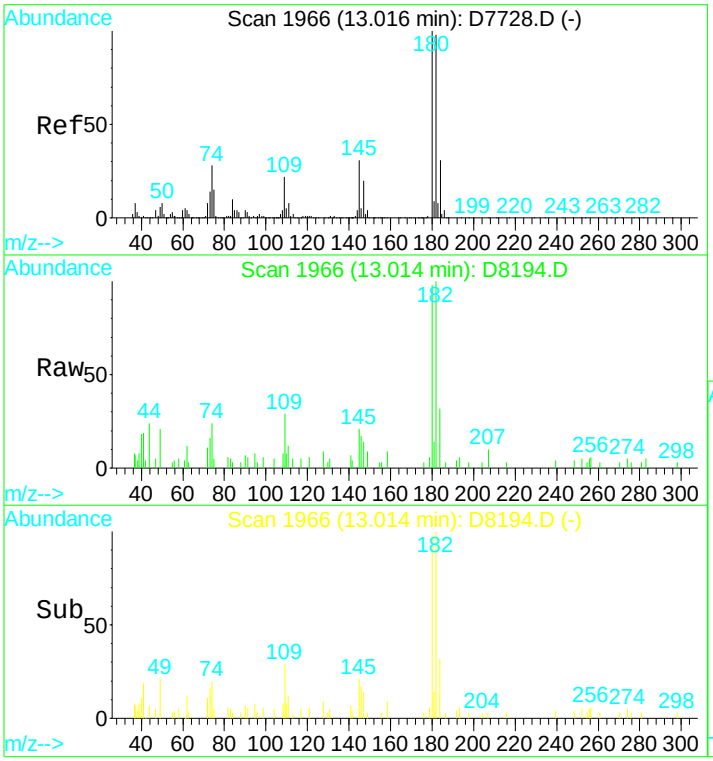


#81
Cyclohexanone
Concen: 2.69 ug/L
RT: 9.85 min Scan# 1446
Delta R.T. 0.00 min
Lab File: D8194.D
Acq: 15 Sep 2017 10:57 am

Tgt Ion: 55 Resp: 195

Ion	Ratio	Lower	Upper
55	100		
42	117.3	58.5	98.5#
70	74.4	2.6	42.6#
98	32.1	29.4	69.4

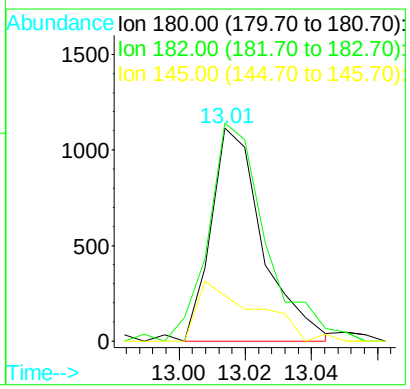


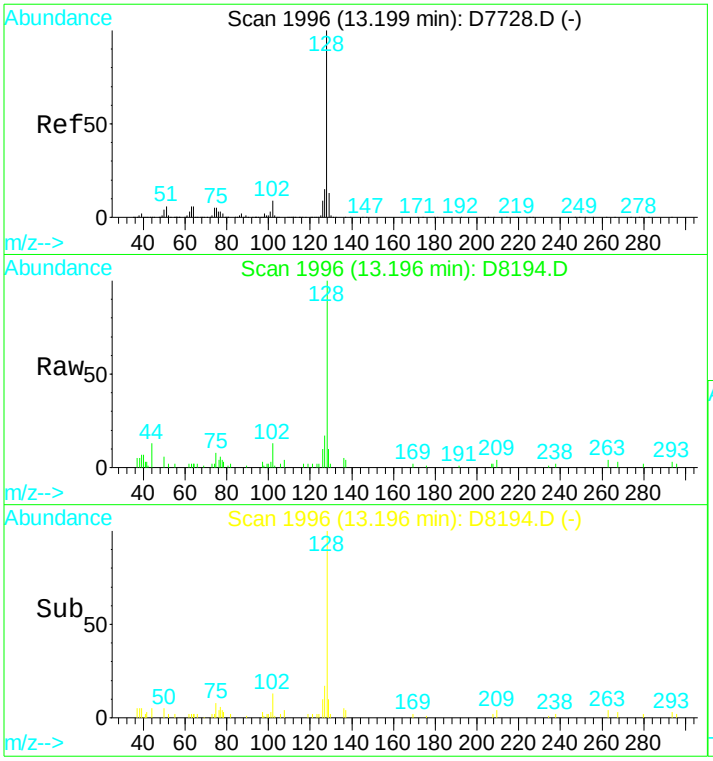


#105
1,2,4-Tcbenzene
Concen: 0.34 ug/L
RT: 13.01 min Scan# 1966
Delta R.T. -0.00 min
Lab File: D8194.D
Acq: 15 Sep 2017 10:57 am

Tgt Ion:180 Resp: 1213

Ion	Ratio	Lower	Upper
180	100		
182	113.8	77.3	117.3
145	16.7	9.5	49.5

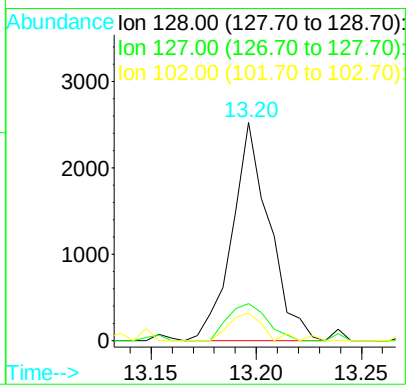


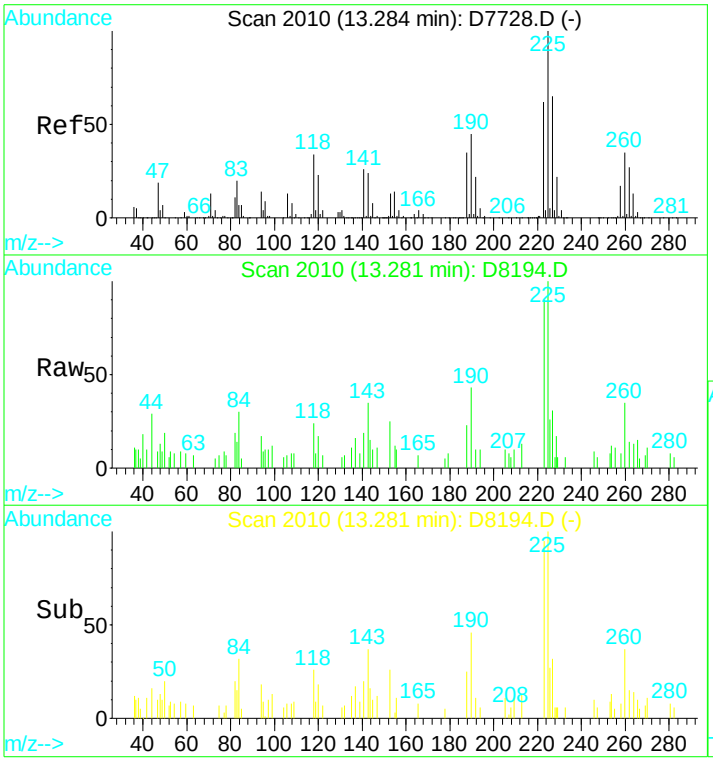


#106
Naphthalen
Concen: 0.46 ug/L
RT: 13.20 min Scan# 1996
Delta R.T. -0.00 min
Lab File: D8194.D
Acq: 15 Sep 2017 10:57 am

Tgt Ion:128 Resp: 3103

Ion	Ratio	Lower	Upper
128	100		
127	17.9	0.0	35.0
102	10.6	0.0	29.4

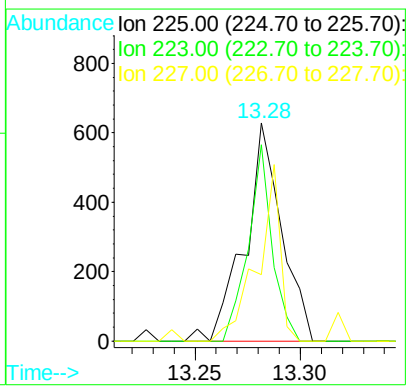




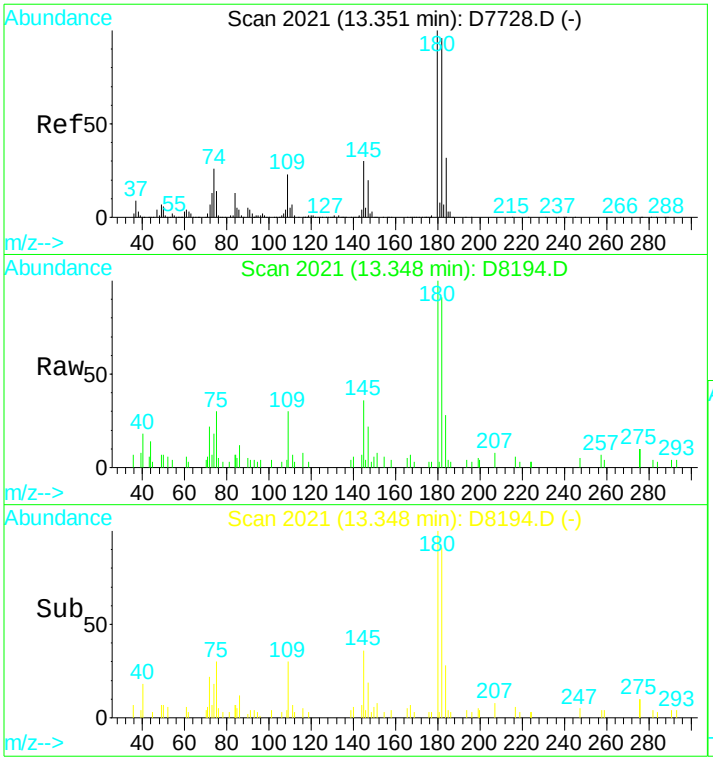
#107
Hexachlorobt
Concen: 0.44 ug/L
RT: 13.28 min Scan# 2010
Delta R.T. -0.00 min
Lab File: D8194.D
Acq: 15 Sep 2017 10:57 am

Tgt Ion:225 Resp: 764

Ion	Ratio	Lower	Upper
225	100		
223	58.6	42.5	82.5
227	49.9	45.8	85.8



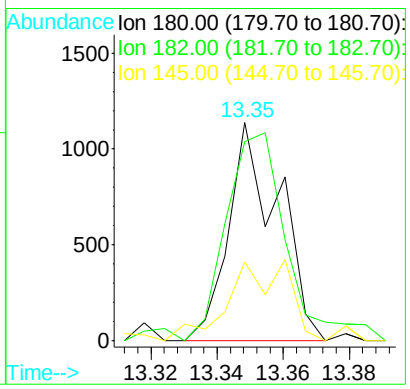
1st DL 09/18/17
2nd BA 09/20/17



#108
1,2,3-Tclbenzene
Concen: 0.39 ug/L
RT: 13.35 min Scan# 2021
Delta R.T. -0.00 min
Lab File: D8194.D
Acq: 15 Sep 2017 10:57 am

Tgt Ion:180 Resp: 1195

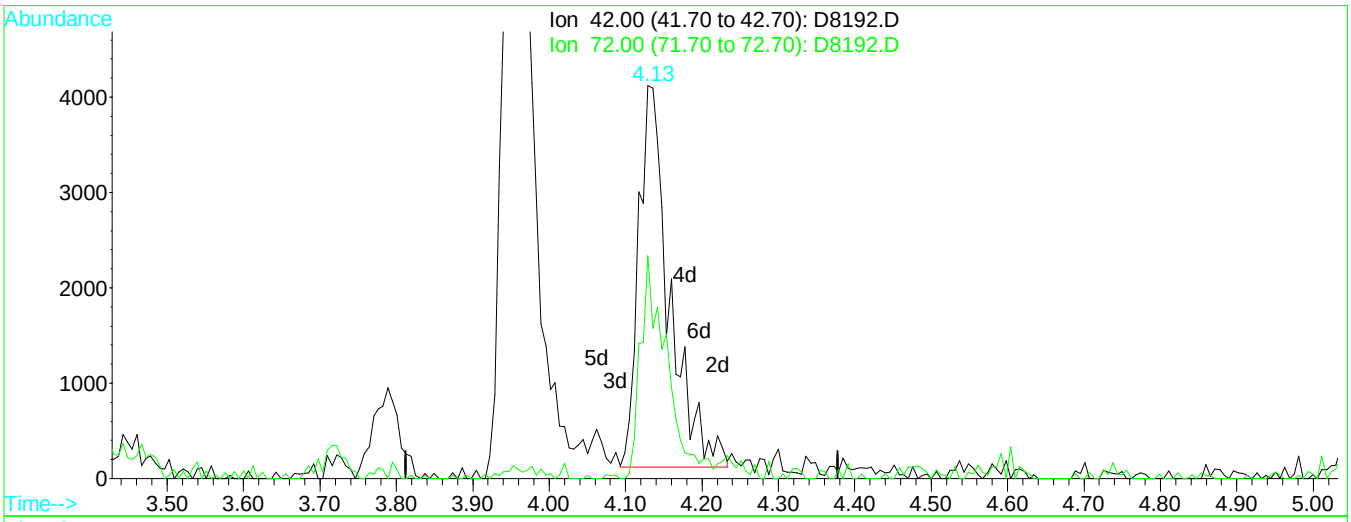
Ion	Ratio	Lower	Upper
180	100		
182	110.0	76.4	116.4
145	43.3	9.7	49.7

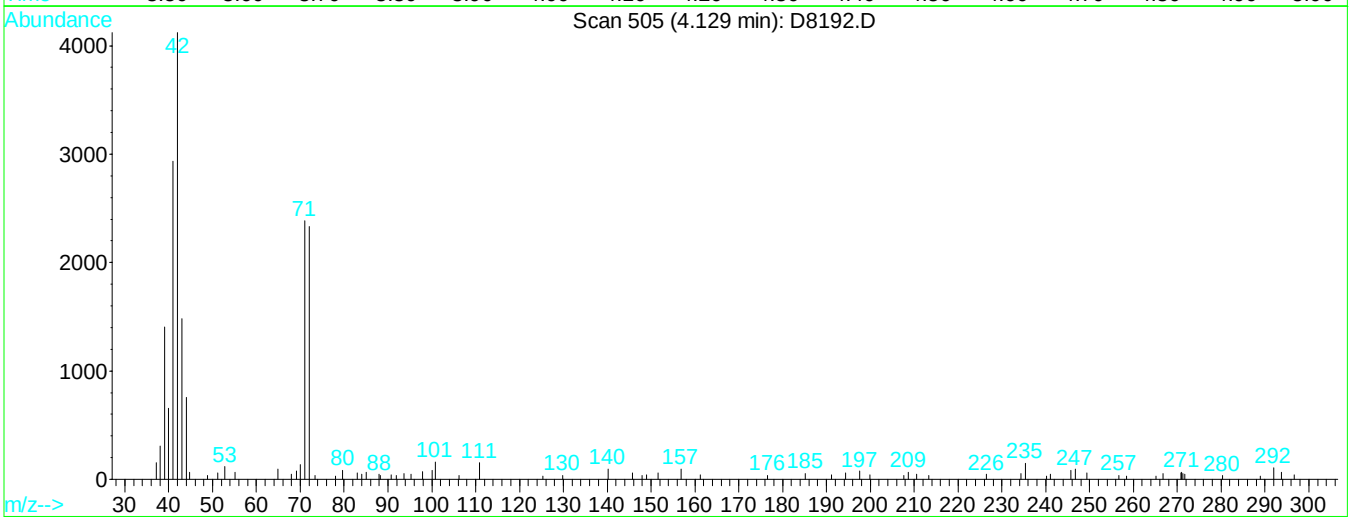


Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 10:27 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: D8192.D

(38) Tetrahydrofuran

4.13min 23.78ug/L m

response 11198

Ion	Exp%	Act%
42.00	100	100
72.00	40.50	56.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

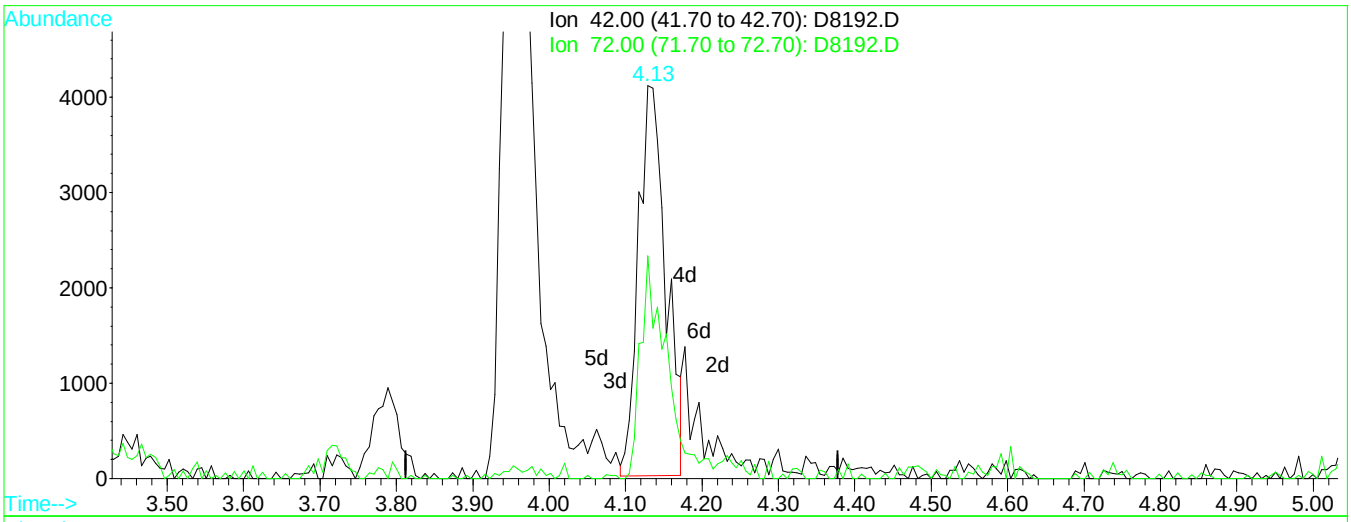
09/15/17

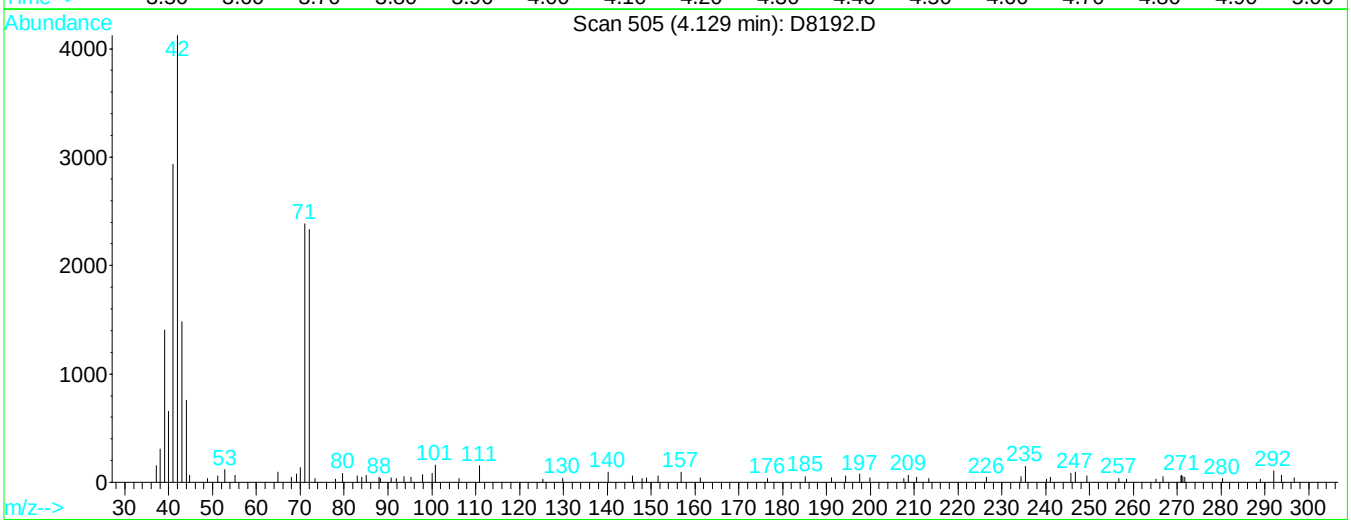
D8192.D W082417.M Fri Sep 15 10:27:27 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 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 11:23:15 2017
Response via : Single Level Calibration





TIC: D8192.D

(38) Tetrahydrofuran

4.13min 21.78ug/L

response 10256

Ion	Exp%	Act%
42.00	100	100
72.00	40.50	56.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

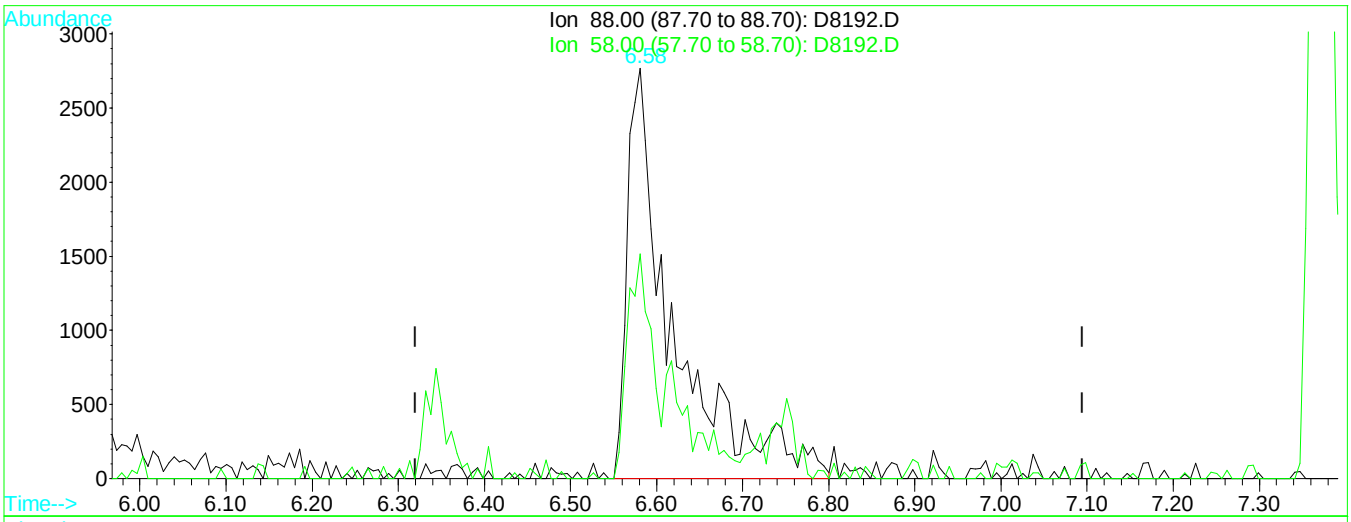
09/15/17

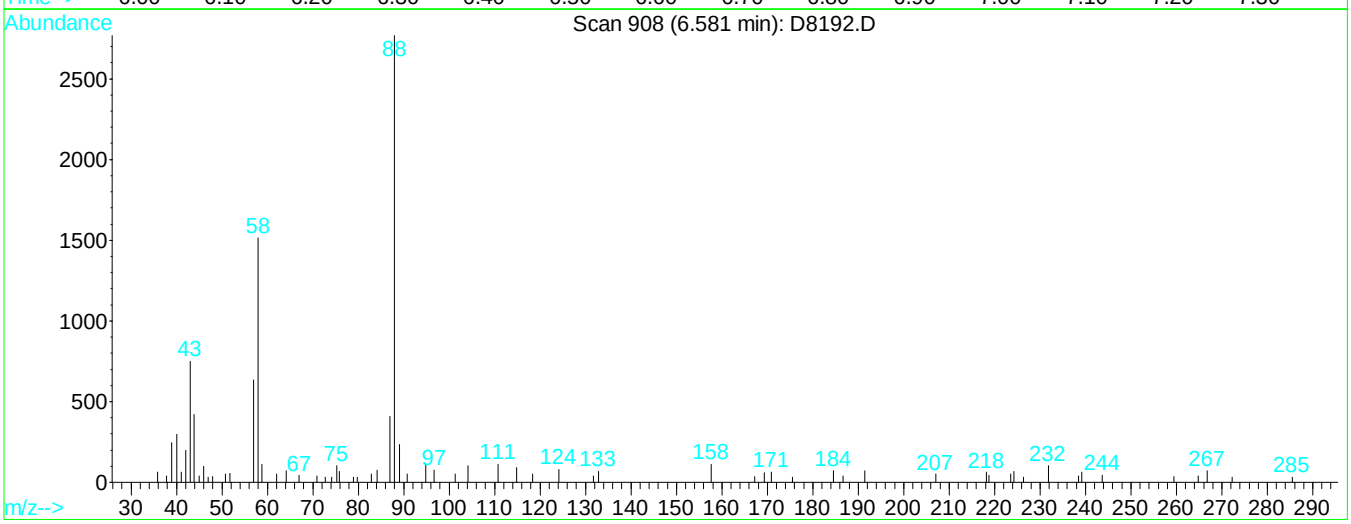
D8192.D W082417.M Fri Sep 15 10:26:27 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 10:28 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: D8192.D

(56) 1,4-Dioxane

6.58min 485.51ug/L m

response 10256

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	54.70
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

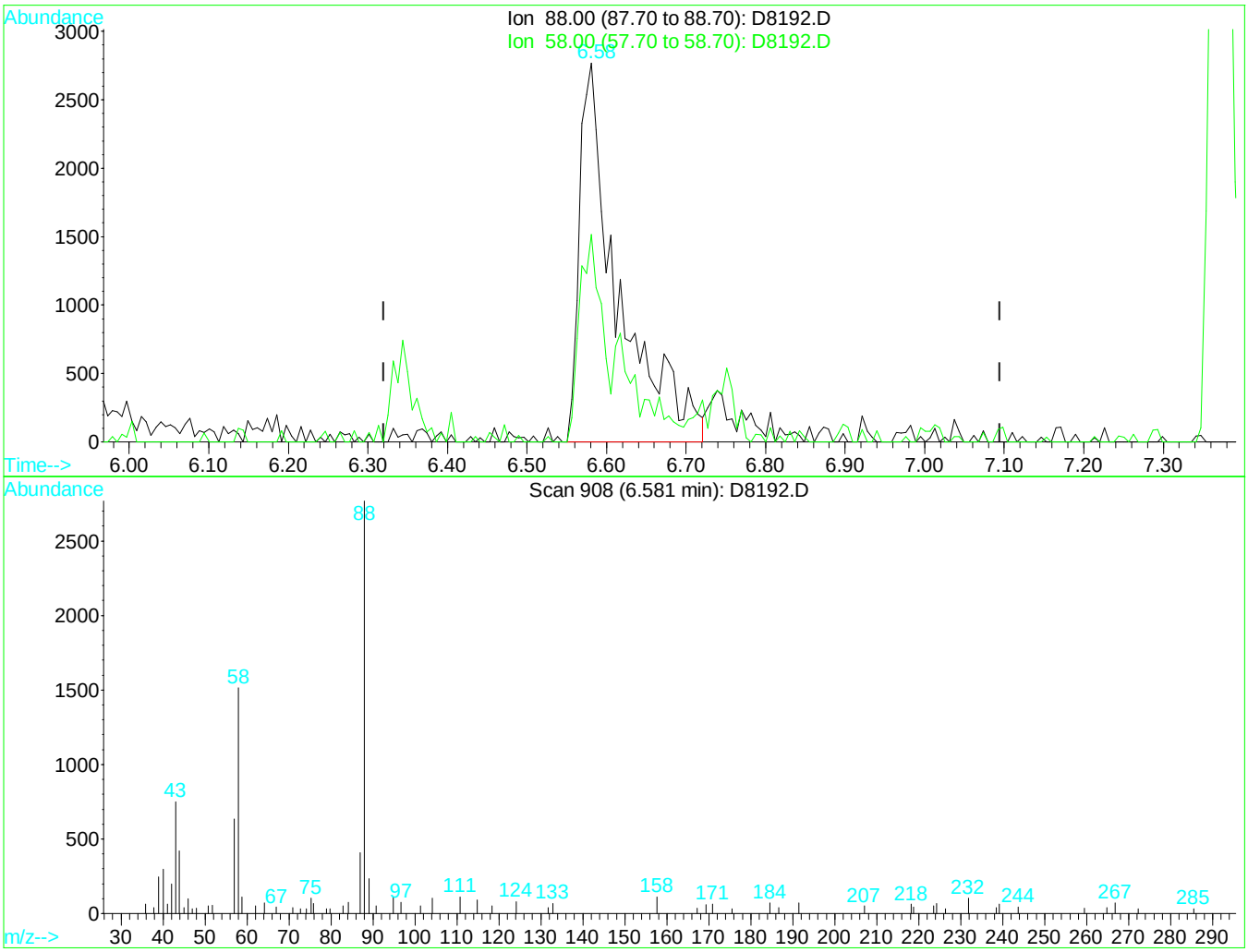
Split Peak.

09/15/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 10:27 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: D8192.D

(56) 1,4-Dioxane

6.58min 441.77ug/L

response 9332

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	54.70
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/15/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 10:28 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	312409	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	420814	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	195627	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	224814	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	155202	51.42	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.84%			
43) surr1,1,2-dichloroethane-d	4.47	65	158699	48.55	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.10%			
65) SURR3,Toluene-d8	7.89	98	463247	54.37	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.74%			
86) SURR2,BFB	10.24	95	194117	52.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.11	85	92953	19.95	ug/L	97
3) Chloromethane	1.19	50	68119	22.02	ug/L	96
4) Vinyl Chloride	1.26	62	93639	24.55	ug/L	97
5) Bromomethane	1.44	94	51124	22.24	ug/L	100
6) Chloroethane	1.51	64	42282	22.63	ug/L	94
7) Freon 21	1.53	67	114554	20.20	ug/L	92
8) Freon 123	1.71	83	72422	20.56	ug/L	96
9) Freon 123a	1.73	67	57788	20.65	ug/L	93
10) Acrolein	1.79	56	9695	39.21	ug/L	95
11) Trichlorofluoromethane	1.79	101	85478	20.05	ug/L	98
12) Acetonitrile	1.79	41	17171	100.99	ug/L	90
13) 2-Propanol	1.83	45	53699	459.25	ug/L	100
14) Acetone	1.86	43	13843	23.67	ug/L	99
15) Diethyl Ether	1.94	59	29845	19.82	ug/L	93
16) 1,1-Diclethene	2.10	96	43065	20.01	ug/L	97
17) Iodomethane	2.11	142	55252	15.80	ug/L	91
18) TBA	2.13	59	92259	460.50	ug/L	99
19) Acrylonitrile	2.14	53	75424	116.42	ug/L	99
20) Methylene Chloride	2.19	84	50603	22.13	ug/L	94
21) Freon 113	2.24	101	50031	20.35	ug/L	98
22) Methyl Acetate	2.25	43	30450	15.79	ug/L	98
23) Allyl Chloride	2.26	76	22357	25.23	ug/L #	84
24) Carbon Disulfide	2.31	76	131971	20.04	ug/L	99
25) trans-1,2-Dichloroethene	2.69	96	47164	20.57	ug/L	92
26) Methyl-t-Butyl Ether	2.80	73	127148	21.57	ug/L	100
27) 1,1-Diclethane	2.89	63	77447	22.26	ug/L	97
28) Propionitrile	2.92	54	28286	121.15	ug/L	98
29) Vinyl Acetate	3.09	43	91303	22.09	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.25	53	67386	21.90	ug/L	87
31) 2-Butanone	3.36	43	16984	21.64	ug/L	86
32) Methacrylonitrile	3.45	67	17403	22.87	ug/L #	79
33) cis-1,2-Dichloroethene	3.47	96	52104	21.28	ug/L	89
34) Bromochloromethane	3.64	128	28520	20.53	ug/L	97
35) Chloroform	3.72	83	87299	20.93	ug/L	98
36) 2,2-Dichloropropane	3.79	77	74254	19.52	ug/L	95
38) Tetrahydrofuran	4.13	42	11198m	23.78	ug/L	
39) 1,1,1-Trichloroethane	4.73	97	81375	20.09	ug/L	96
42) Iso-Butyl Alcohol	3.96	42	21779	462.77	ug/L #	86
44) 1,2-Dichloroethane	4.59	64	20669	17.93	ug/L	96

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 10:28 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	60180	19.74	ug/L	98
47)	Cyclohexane	5.17	56	58055	18.55	ug/L	99
48)	Carbontetrachloride	5.30	119	67343	19.88	ug/L	97
49)	Benzene	5.39	78	165164	20.02	ug/L	99
51)	Dibromomethane	6.17	93	34509	19.79	ug/L	97
52)	1,2-Diclpropane	6.25	63	42608	20.22	ug/L	98
53)	n-Heptane	6.34	43	45037	19.53	ug/L	91
54)	Trichloroethene	6.32	130	52863	19.37	ug/L	96
55)	Bromodichloromethane	6.36	83	67888	20.81	ug/L	99
56)	1,4-Dioxane	6.58	88	10256m	485.51	ug/L	
58)	Methyl Methacrylate	6.75	69	30607	21.52	ug/L	94
59)	Methylcyclohexane	6.90	55	44771	18.42	ug/L	95
60)	2-Chloroethylvinyl Ether	7.02	63	25235	19.10	ug/L	94
61)	cis-1,3-Dichloropropene	7.18	75	75250	20.61	ug/L	96
62)	4-Methyl-2-pentanone	7.37	43	39030	20.66	ug/L	98
63)	trans-1,3-Dichloropropene	7.66	75	69444	20.25	ug/L	100
64)	1,1,2-Trichloroethane	7.77	97	46418	22.36	ug/L	98
66)	Toluene	7.96	91	185969	19.86	ug/L	99
68)	1,3-Dichloropropane	8.02	76	66493	20.30	ug/L	94
69)	Ethyl Methacrylate	8.19	69	57445	21.73	ug/L	90
70)	Dibromochloromethane	8.21	129	58671	21.81	ug/L	99
71)	2-Hexanone	8.26	43	27693	20.98	ug/L	98
72)	1,2-Dibromoethane	8.43	107	51684	21.88	ug/L	100
73)	n-Butyl Acetate	8.63	43	63755	21.11	ug/L	98
74)	Tetrachloroethene	8.63	164	48647	20.83	ug/L	97
75)	1,1,1,2-Tetrachloroethane	9.17	131	51999	21.30	ug/L	97
76)	Chlorobenzene	9.22	112	129504	20.95	ug/L	99
77)	Ethylbenzene	9.43	106	68773	21.10	ug/L	93
78)	Bromoform	9.61	173	43476	24.01	ug/L	98
79)	(m+p)Xylene	9.62	106	168681	41.34	ug/L	96
80)	o-Xylene	9.93	106	82898	21.11	ug/L	95
81)	Cyclohexanone	9.84	55	57385	763.40	ug/L	94
82)	Styrene	9.88	104	137223	21.87	ug/L	98
84)	trans-1,4-Dichloro-2-Buten	10.10	75	19696	21.57	ug/L	93
85)	Isopropylbenzene	10.25	105	210160	20.98	ug/L	98
88)	1,1,2,2-Tetrachloroethane	9.92	83	63557	23.66	ug/L	99
89)	1,2,3-Trichloropropane	10.04	75	44120	21.77	ug/L	99
90)	Bromobenzene	10.38	156	70780	21.24	ug/L	97
91)	n-Propylbenzene	10.61	91	242286	20.33	ug/L	98
92)	2-Chlorotoluene	10.64	91	144280	20.82	ug/L	93
93)	4-Chlorotoluene	10.71	91	156021	20.93	ug/L	96
94)	1,3,5-Trimethylbenzene	10.87	105	170578	20.63	ug/L	99
95)	tert-Butylbenzene	11.06	119	148085	20.59	ug/L	96
96)	1,2,4-Trimethylbenzene	11.17	105	177062	19.97	ug/L	98
97)	sec-Butylbenzene	11.24	105	211301	20.61	ug/L	97
98)	1,3-Dclbenz	11.25	146	115144	20.32	ug/L	99
99)	1,4-Dclbenz	11.31	146	120140	20.92	ug/L	97
100)	p-Isopropyltoluene	11.41	119	179777	21.28	ug/L	98
101)	1,2-Dclbenz	11.58	146	113158	19.96	ug/L	99
102)	n-Butylbenzene	11.72	91	170306	21.87	ug/L	98
103)	1,2-Dibromo-3-chloropropan	11.95	75	11612	23.48	ug/L	96
104)	Nitrobenzene	12.12	77	3701	105.94	ug/L	93
105)	1,2,4-Tcbenzene	13.02	180	80534	20.62	ug/L	98
106)	Naphthalen	13.19	128	168796	22.86	ug/L	99

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 10:28 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

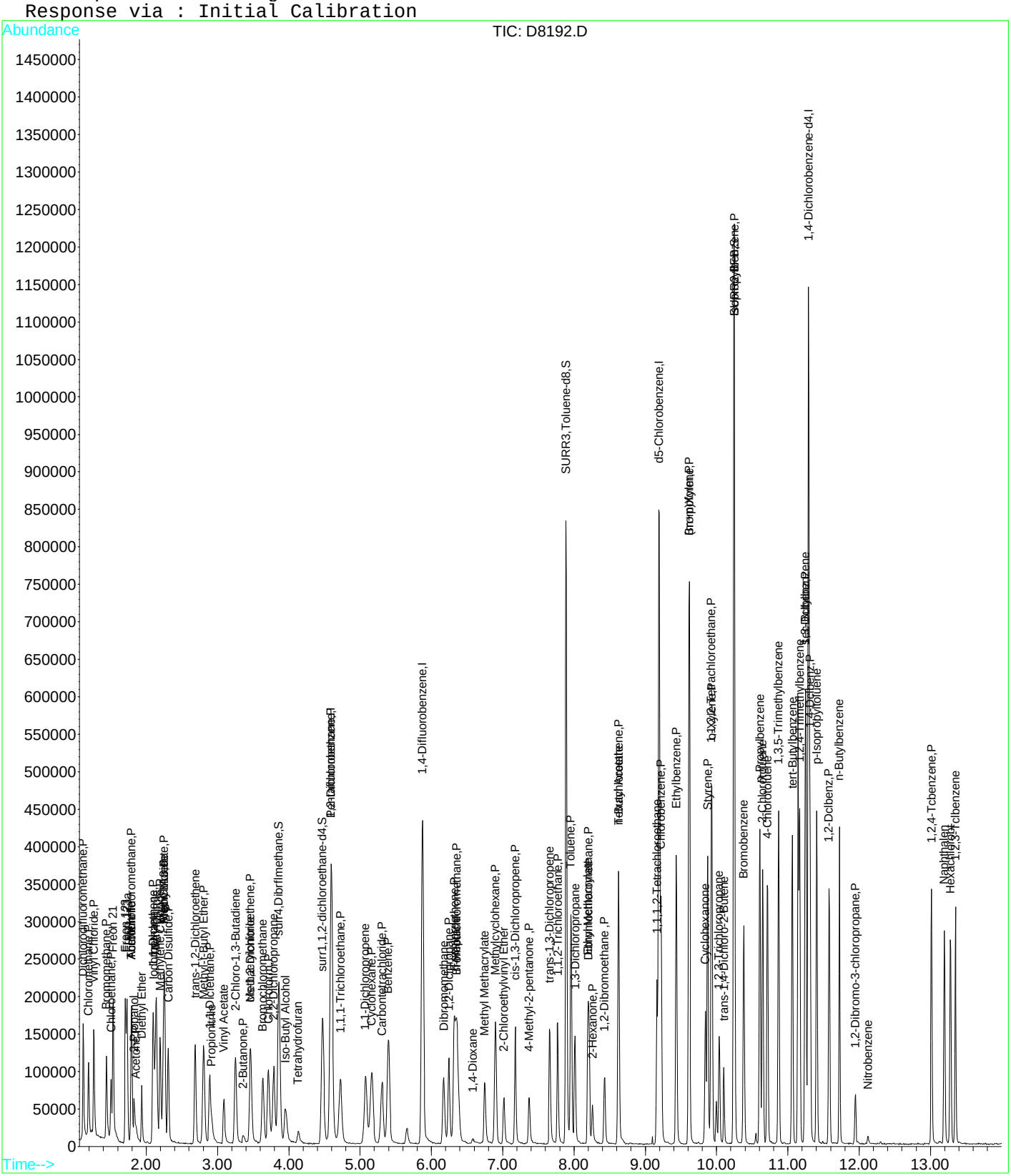
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
107) Hexachlorobt	13.28	225	41840	21.87	ug/L	98
108) 1,2,3-Tclbenzene	13.35	180	75266	22.40	ug/L	99

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D Vial: 6
Acq On : 15 Sep 2017 10:04 am Operator: D.Lipani
Sample : LCS Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 10:28 2017 Quant Results File: W082417.RES

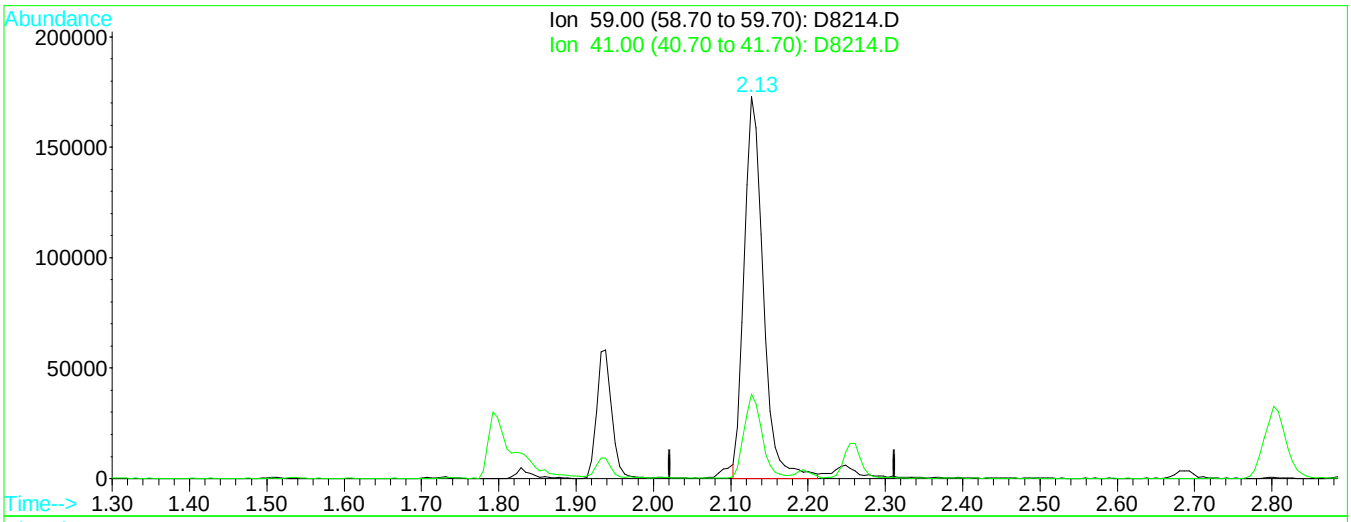
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:23:15 2017
Response via : Initial Calibration

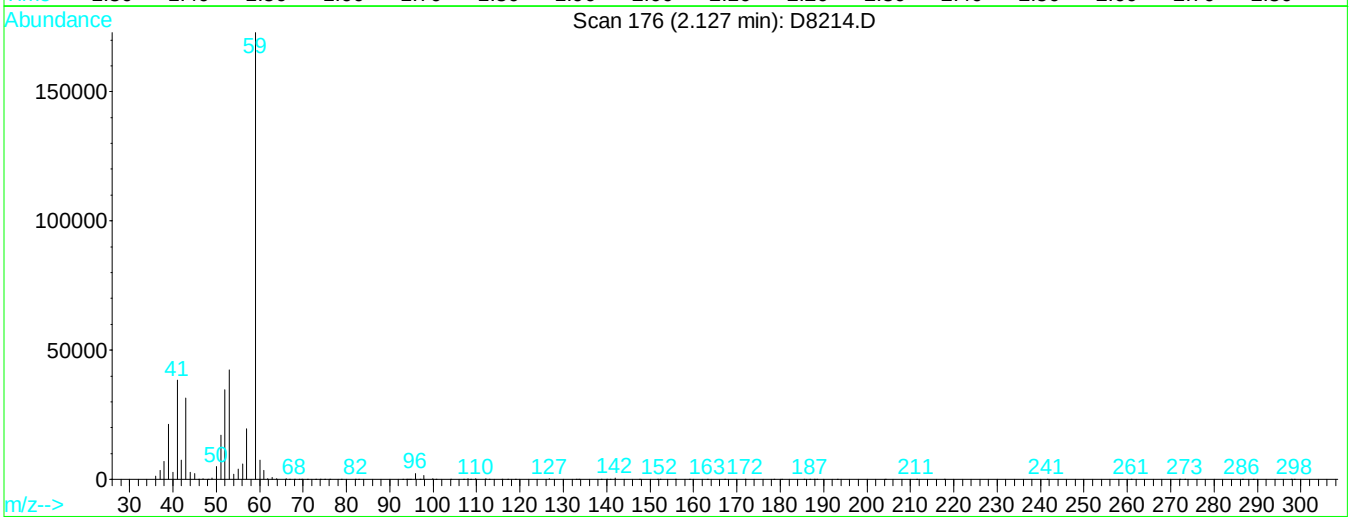


Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8214.D Vial: 28
Acq On : 15 Sep 2017 7:37 pm Operator: D.Lipani
Sample : R1708648-001MS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:43 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: D8214.D

(18) TBA

2.13min 1564.17ug/L m

response 296861

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	22.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

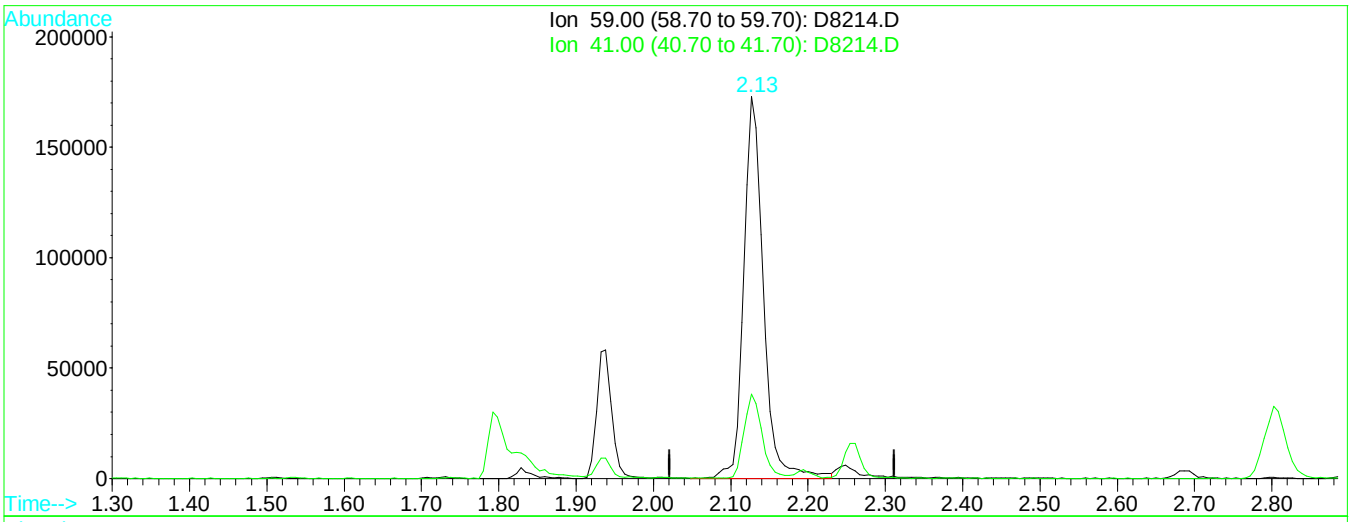
Poor integration.

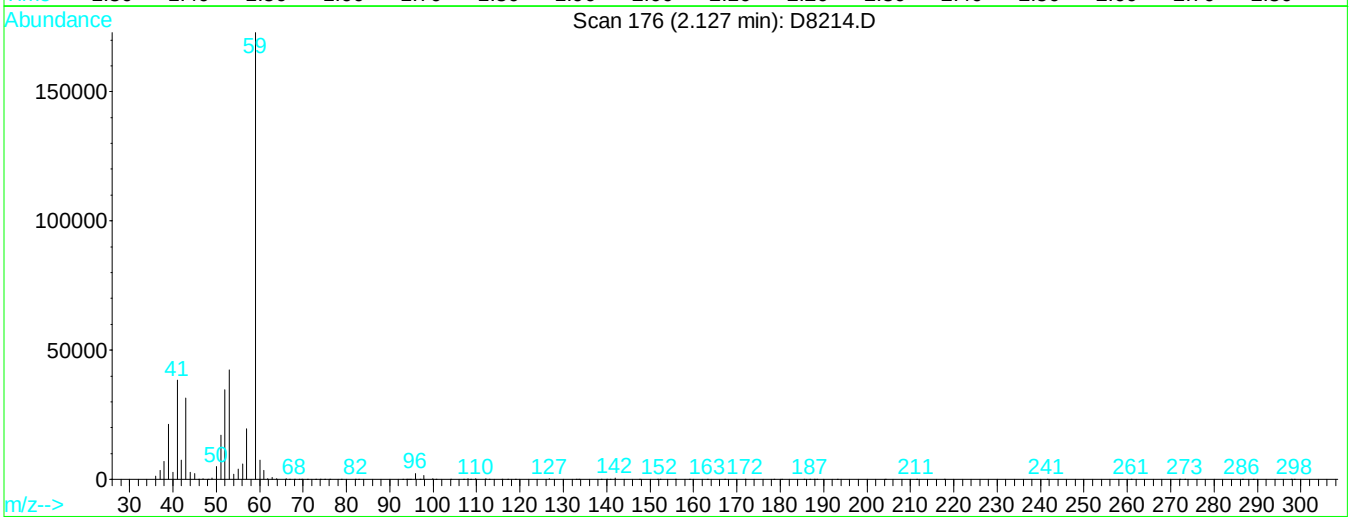
09/18/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8214.D Vial: 28
Acq On : 15 Sep 2017 7:37 pm Operator: D.Lipani
Sample : R1708648-001MS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 19:54 2017 Quant Results File: temp.res

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





TIC: D8214.D

(18) TBA

2.13min 1612.19ug/L

response 305974

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	22.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

D8214.D W082417.M Mon Sep 18 13:43:21 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8214.D Vial: 28
Acq On : 15 Sep 2017 7:37 pm Operator: D.Lipani
Sample : R1708648-001MS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:44 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	295949	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	405569	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	195477	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	224846	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	147824	50.82	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.64%			
43) surr1,1,2-dichloroethane-d	4.47	65	149968	47.60	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 95.20%			
65) SURR3,Toluene-d8	7.89	98	446713	54.40	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.80%			
86) SURR2,BFB	10.25	95	193487	52.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.11	85	218369	49.47	ug/L	99
3) Chloromethane	1.19	50	114379	39.02	ug/L	98
4) Vinyl Chloride	1.26	62	242685	67.15	ug/L	99
5) Bromomethane	1.45	94	6066	2.79	ug/L	92
6) Chloroethane	1.51	64	98191	55.47	ug/L	97
7) Freon 21	1.53	67	283544	52.77	ug/L	96
8) Freon 123	1.71	83	191386	57.36	ug/L	97
9) Freon 123a	1.73	67	153153	57.76	ug/L	97
10) Acrolein	1.79	56	4552	19.44	ug/L	97
11) Trichlorofluoromethane	1.79	101	207004	51.27	ug/L	97
12) Acetonitrile	1.79	41	45249	280.92	ug/L	91
13) 2-Propanol	1.83	45	139930	1263.28	ug/L	98
14) Acetone	1.86	43	45928	82.90	ug/L	93
15) Diethyl Ether	1.94	59	77940	54.65	ug/L	94
16) 1,1-Diclethene	2.10	96	111121	54.49	ug/L	95
17) Iodomethane	2.11	142	2206	0.67	ug/L #	67
18) TBA	2.13	59	296861m	1564.17	ug/L	
19) Acrylonitrile	2.14	53	192926	314.35	ug/L	95
20) Methylene Chloride	2.19	84	126793	58.53	ug/L	95
21) Freon 113	2.24	101	124415	53.41	ug/L	93
22) Methyl Acetate	2.25	43	79076	43.30	ug/L	95
23) Allyl Chloride	2.25	76	8839	10.53	ug/L	89
24) Carbon Disulfide	2.31	76	322271	51.67	ug/L	100
25) trans-1,2-Dichloroethene	2.69	96	120375	55.41	ug/L	94
26) Methyl-t-Butyl Ether	2.80	73	310182	55.55	ug/L	95
27) 1,1-Diclethane	2.89	63	192865	58.51	ug/L	97
28) Propionitrile	2.92	54	77321	349.60	ug/L	98
29) Vinyl Acetate	3.08	43	228684	58.39	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.25	53	148058	50.80	ug/L	92
31) 2-Butanone	3.36	43	49496	66.58	ug/L	95
32) Methacrylonitrile	3.45	67	47346	65.68	ug/L #	75
33) cis-1,2-Dichloroethene	3.47	96	136871	59.00	ug/L	93
34) Bromochloromethane	3.64	128	72493	55.08	ug/L	95
35) Chloroform	3.71	83	223846	56.65	ug/L	96
36) 2,2-Dichloropropane	3.79	77	183192	50.84	ug/L	94
38) Tetrahydrofuran	4.13	42	31527	70.67	ug/L	86
39) 1,1,1-Trichloroethane	4.72	97	201014	52.39	ug/L	98
42) Iso-Butyl Alcohol	3.95	42	68048	1500.26	ug/L	98
44) 1,2-Dichloroethane	4.59	64	52972	47.67	ug/L #	90

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8214.D Vial: 28
Acq On : 15 Sep 2017 7:37 pm Operator: D.Lipani
Sample : R1708648-001MS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:44 2017 Quant Results File: W082417.RES

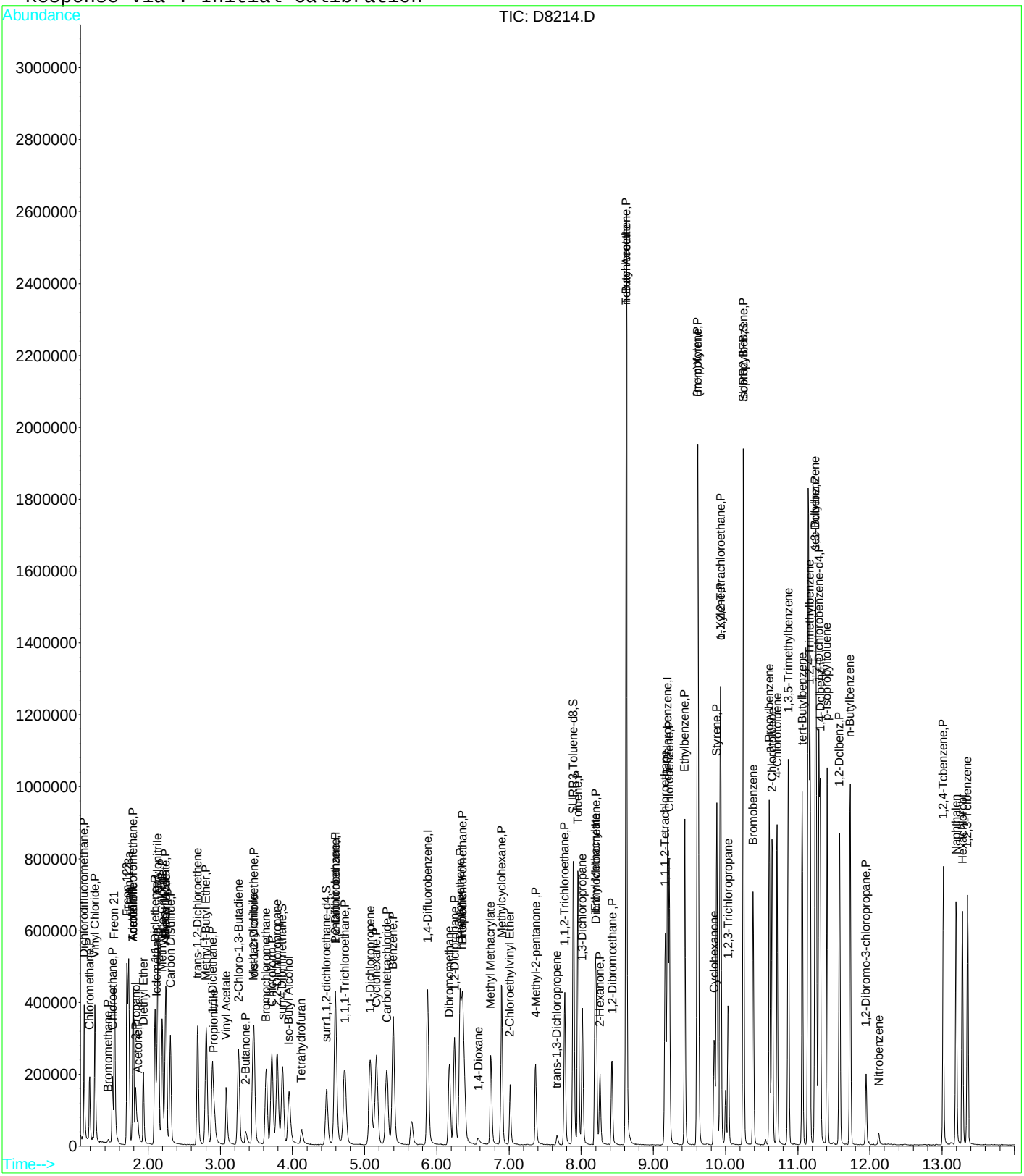
Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:23:15 2017
Response via : Initial Calibration
DataAcq Meth : W082417

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1-Dichloropropene	5.08	75	155264	52.84 ug/L	98
47)	Cyclohexane	5.16	56	155596	51.57 ug/L	95
48)	Carbontetrachloride	5.31	119	170050	52.08 ug/L	95
49)	Benzene	5.40	78	414594	52.15 ug/L	100
51)	Dibromomethane	6.17	93	85485	50.87 ug/L	99
52)	1,2-Diclpropane	6.25	63	108686	53.53 ug/L	98
53)	n-Heptane	6.34	43	106003	47.69 ug/L	89
54)	Trichloroethene	6.32	130	141680	53.87 ug/L	98
55)	Bromodichloromethane	6.36	83	173128	55.07 ug/L	99
56)	1,4-Dioxane	6.57	88	25923	1273.31 ug/L	97
58)	Methyl Methacrylate	6.74	69	88282	64.41 ug/L	96
59)	Methylcyclohexane	6.90	55	125697	53.67 ug/L	97
60)	2-Chloroethylvinyl Ether	7.01	63	69737	54.78 ug/L	94
62)	4-Methyl-2-pentanone	7.37	43	129500	71.13 ug/L	96
63)	trans-1,3-Dichloropropene	7.66	75	11018	3.33 ug/L	99
64)	1,1,2-Trichloroethane	7.77	97	113402	56.69 ug/L	99
66)	Toluene	7.95	91	463560	51.37 ug/L	100
68)	1,3-Dichloropropane	8.02	76	169762	51.87 ug/L	92
69)	Ethyl Methacrylate	8.19	69	162593	61.55 ug/L	92
70)	Dibromochloromethane	8.21	129	148863	55.38 ug/L	100
71)	2-Hexanone	8.26	43	100175	75.93 ug/L	95
72)	1,2-Dibromoethane	8.43	107	128932	54.63 ug/L	99
73)	n-Butyl Acetate	8.63	43	216967	71.89 ug/L	91
74)	Tetrachloroethene	8.62	164	411663	176.39 ug/L	97
75)	1,1,1,2-Tetrachloroethane	9.17	131	131050	53.73 ug/L	97
76)	Chlorobenzene	9.22	112	315280	51.04 ug/L	98
77)	Ethylbenzene	9.43	106	175806	53.98 ug/L	96
78)	Bromoform	9.62	173	118581	65.53 ug/L	97
79)	(m+p)Xylene	9.62	106	419506	102.90 ug/L	97
80)	o-Xylene	9.93	106	214267	54.62 ug/L	98
81)	Cyclohexanone	9.84	55	96601	1286.09 ug/L	92
82)	Styrene	9.88	104	338386	53.98 ug/L	99
85)	Isopropylbenzene	10.25	105	494505	49.41 ug/L	98
88)	1,1,2,2-Tetrachloroethane	9.93	83	170247	63.38 ug/L	98
89)	1,2,3-Trichloropropane	10.04	75	118366	58.39 ug/L	98
90)	Bromobenzene	10.38	156	171092	51.32 ug/L	98
91)	n-Propylbenzene	10.61	91	560151	47.00 ug/L	99
92)	2-Chlorotoluene	10.64	91	314690	45.39 ug/L	99
93)	4-Chlorotoluene	10.72	91	355809	47.73 ug/L	98
94)	1,3,5-Trimethylbenzene	10.87	105	408392	49.38 ug/L	99
95)	tert-Butylbenzene	11.06	119	344017	47.83 ug/L	100
96)	1,2,4-Trimethylbenzene	11.17	105	423888	47.80 ug/L	97
97)	sec-Butylbenzene	11.24	105	509314	49.67 ug/L	100
98)	1,3-Dclbenz	11.25	146	290661	51.28 ug/L	100
99)	1,4-Dclbenz	11.31	146	299084	52.07 ug/L	100
100)	p-Isopropyltoluene	11.40	119	434868	51.46 ug/L	98
101)	1,2-Dclbenz	11.58	146	273516	48.23 ug/L	99
102)	n-Butylbenzene	11.73	91	401618	51.57 ug/L	98
103)	1,2-Dibromo-3-chloropropan	11.95	75	32100	64.90 ug/L	95
104)	Nitrobenzene	12.12	77	10434	298.63 ug/L	99
105)	1,2,4-Tcbenzene	13.02	180	187743	48.07 ug/L	98
106)	Naphthalen	13.19	128	401197	54.33 ug/L	100
107)	Hexachlorobt	13.28	225	93698	48.97 ug/L	99
108)	1,2,3-Tclbenzene	13.35	180	173955	51.76 ug/L	99

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

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8214.D Vial: 28
Acq On : 15 Sep 2017 7:37 pm Operator: D.Lipani
Sample : R1708648-001MS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:44 2017 Quant Results File: W082417.RES

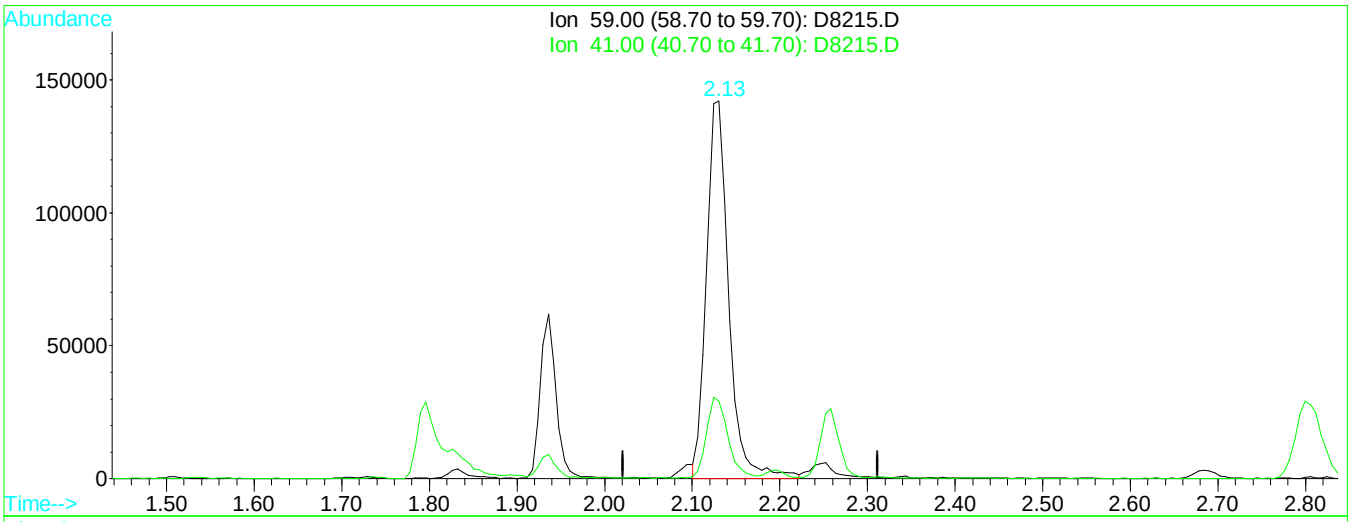
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:23:15 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D Vial: 29
Acq On : 15 Sep 2017 8:03 pm Operator: D.Lipani
Sample : R1708648-001DMS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:46 2017 Quant Results File: temp.res

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



TIC: D8215.D

(18) TBA

2.13min 1263.61ug/L m

response 250536

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	20.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

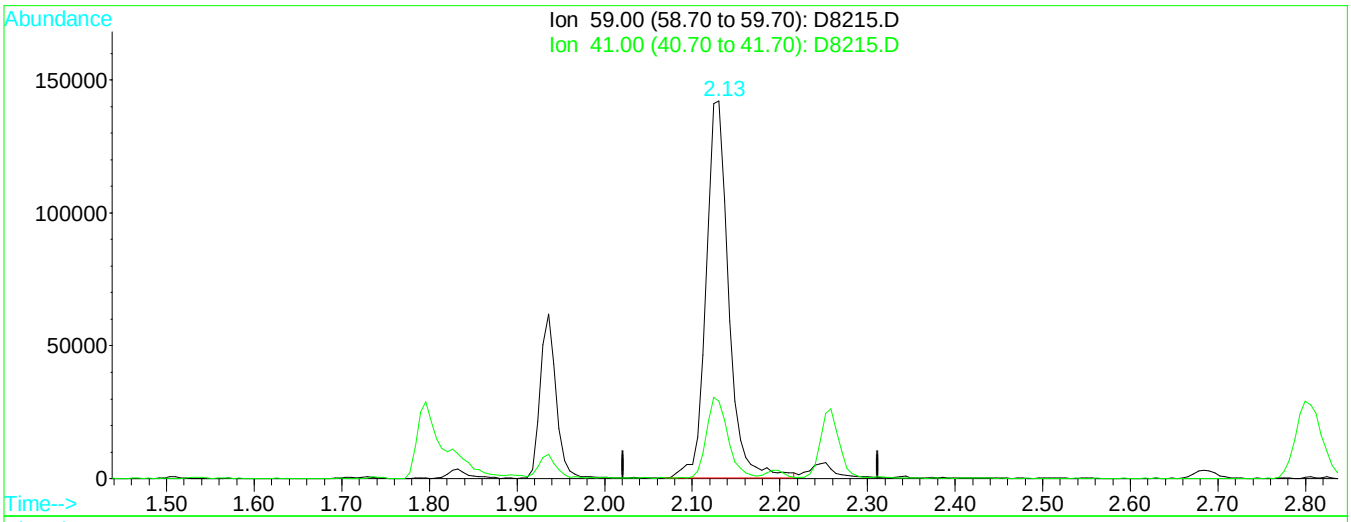
Poor integration.

09/18/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D Vial: 29
Acq On : 15 Sep 2017 8:03 pm Operator: D.Lipani
Sample : R1708648-001DMS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 20:20 2017 Quant Results File: temp.res

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



TIC: D8215.D

(18) TBA

2.13min 1289.85ug/L

response 255739

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	20.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/18/17

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D Vial: 29
Acq On : 15 Sep 2017 8:03 pm Operator: D.Lipani
Sample : R1708648-001DMS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:47 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	309177	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	410305	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	201818	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	235032	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	150545	51.16	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.32%			
43) surr1,1,2-dichloroethane-d	4.47	65	155524	48.79	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.58%			
65) SURR3,Toluene-d8	7.89	98	453574	54.59	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.18%			
86) SURR2,BFB	10.25	95	198232	52.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.11	85	219830	47.67	ug/L	98
3) Chloromethane	1.19	50	131388	42.91	ug/L	99
4) Vinyl Chloride	1.27	62	228562	60.54	ug/L	96
5) Bromomethane	1.44	94	6743	2.96	ug/L	96
6) Chloroethane	1.50	64	97847	52.91	ug/L	98
7) Freon 21	1.53	67	281725	50.19	ug/L	99
8) Freon 123	1.71	83	197080	56.54	ug/L	97
9) Freon 123a	1.73	67	159391	57.54	ug/L	98
10) Acrolein	1.79	56	6701	27.39	ug/L	93
11) Trichlorofluoromethane	1.79	101	211575	50.16	ug/L	98
12) Acetonitrile	1.80	41	42267	251.18	ug/L	92
13) 2-Propanol	1.83	45	121212	1047.48	ug/L	94
14) Acetone	1.86	43	38610	66.71	ug/L	85
15) Diethyl Ether	1.94	59	77054	51.72	ug/L	97
16) 1,1-Diclethene	2.09	96	110607	51.92	ug/L	93
17) Iodomethane	2.11	142	2696	0.78	ug/L	93
18) TBA	2.13	59	250536m	1263.61	ug/L	
19) Acrylonitrile	2.14	53	174937	272.84	ug/L	99
20) Methylene Chloride	2.20	84	127480	56.33	ug/L	94
21) Freon 113	2.24	101	124896	51.32	ug/L	94
22) Methyl Acetate	2.25	43	72172	37.83	ug/L	98
23) Allyl Chloride	2.26	76	14936	17.03	ug/L	97
24) Carbon Disulfide	2.31	76	321893	49.40	ug/L	100
25) trans-1,2-Dichloroethene	2.68	96	119154	52.50	ug/L	95
26) Methyl-t-Butyl Ether	2.81	73	295547	50.67	ug/L	98
27) 1,1-Diclethane	2.89	63	190283	55.26	ug/L	99
28) Propionitrile	2.92	54	69356	300.17	ug/L	99
29) Vinyl Acetate	3.09	43	219628	53.68	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.25	53	134926	44.31	ug/L	86
31) 2-Butanone	3.36	43	44079	56.76	ug/L	97
32) Methacrylonitrile	3.45	67	45417	60.31	ug/L	84
33) cis-1,2-Dichloroethene	3.47	96	139268	57.46	ug/L	97
34) Bromochloromethane	3.63	128	71942	52.32	ug/L	93
35) Chloroform	3.71	83	228223	55.28	ug/L	97
36) 2,2-Dichloropropane	3.79	77	186488	49.54	ug/L	96
38) Tetrahydrofuran	4.13	42	25754	55.26	ug/L	68
39) 1,1,1-Trichloroethane	4.72	97	207963	51.89	ug/L	97
42) Iso-Butyl Alcohol	3.95	42	56544	1232.24	ug/L	92
44) 1,2-Dichloroethane	4.59	64	53883	47.93	ug/L	97

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D Vial: 29
Acq On : 15 Sep 2017 8:03 pm Operator: D.Lipani
Sample : R1708648-001DMS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:47 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	5.07	75	155469	52.30	ug/L		97
47)	Cyclohexane	5.16	56	160484	52.58	ug/L		90
48)	Carbontetrachloride	5.31	119	175157	53.03	ug/L		96
49)	Benzene	5.40	78	415516	51.67	ug/L		98
51)	Dibromomethane	6.17	93	87050	51.20	ug/L		98
52)	1,2-Diclpropane	6.24	63	107870	52.51	ug/L		98
53)	n-Heptane	6.35	43	108849	48.41	ug/L		98
54)	Trichloroethene	6.32	130	144186	54.19	ug/L		99
55)	Bromodichloromethane	6.36	83	173380	54.51	ug/L		99
56)	1,4-Dioxane	6.57	88	24577	1193.26	ug/L		94
58)	Methyl Methacrylate	6.75	69	78543	56.64	ug/L		97
59)	Methylcyclohexane	6.90	55	130991	55.29	ug/L		96
60)	2-Chloroethylvinyl Ether	7.02	63	65228	50.65	ug/L		100
62)	4-Methyl-2-pentanone	7.37	43	110279	59.87	ug/L		94
63)	trans-1,3-Dichloropropene	7.67	75	24731	7.40	ug/L		97
64)	1,1,2-Trichloroethane	7.77	97	114388	56.52	ug/L		98
66)	Toluene	7.96	91	465038	50.94	ug/L		98
68)	1,3-Dichloropropane	8.01	76	167394	49.54	ug/L		94
69)	Ethyl Methacrylate	8.20	69	156061	57.22	ug/L		93
70)	Dibromochloromethane	8.21	129	153422	55.28	ug/L		99
71)	2-Hexanone	8.26	43	86423	63.45	ug/L		97
72)	1,2-Dibromoethane	8.43	107	127859	52.47	ug/L		98
73)	n-Butyl Acetate	8.63	43	200763	64.43	ug/L		91
74)	Tetrachloroethene	8.63	164	424379	176.13	ug/L		97
75)	1,1,1,2-Tetrachloroethane	9.16	131	135296	53.73	ug/L		98
76)	Chlorobenzene	9.22	112	326141	51.14	ug/L		99
77)	Ethylbenzene	9.44	106	180526	53.69	ug/L		96
78)	Bromoform	9.61	173	117680	62.99	ug/L		96
79)	(m+p)Xylene	9.61	106	421238	100.07	ug/L		98
80)	o-Xylene	9.94	106	219811	54.27	ug/L		96
81)	Cyclohexanone	9.84	55	81156	1046.51	ug/L		95
82)	Styrene	9.87	104	343336	53.05	ug/L		99
84)	trans-1,4-Dichloro-2-Buten	10.11	75	1243	1.32	ug/L	#	52
85)	Isopropylbenzene	10.25	105	500042	48.39	ug/L		98
88)	1,1,2,2-Tetrachloroethane	9.92	83	157127	55.96	ug/L		97
89)	1,2,3-Trichloropropane	10.04	75	110337	52.07	ug/L		99
90)	Bromobenzene	10.39	156	170104	48.82	ug/L		99
91)	n-Propylbenzene	10.60	91	567920	45.59	ug/L		97
92)	2-Chlorotoluene	10.65	91	332237	45.85	ug/L		100
93)	4-Chlorotoluene	10.71	91	368308	47.27	ug/L		99
94)	1,3,5-Trimethylbenzene	10.87	105	412845	47.75	ug/L		99
95)	tert-Butylbenzene	11.07	119	358172	47.64	ug/L		98
96)	1,2,4-Trimethylbenzene	11.17	105	437346	47.18	ug/L		98
97)	sec-Butylbenzene	11.24	105	516316	48.17	ug/L		100
98)	1,3-Dclbenz	11.26	146	301823	50.94	ug/L		99
99)	1,4-Dclbenz	11.31	146	302752	50.43	ug/L		99
100)	p-Isopropyltoluene	11.41	119	435536	49.30	ug/L		98
101)	1,2-Dclbenz	11.58	146	280466	47.32	ug/L		99
102)	n-Butylbenzene	11.72	91	401778	49.35	ug/L		97
103)	1,2-Dibromo-3-chloropropan	11.94	75	28039	54.23	ug/L		94
104)	Nitrobenzene	12.13	77	9701	265.62	ug/L		91
105)	1,2,4-Tcbenzene	13.01	180	200174	49.03	ug/L		96
106)	Naphthalen	13.20	128	387690	50.22	ug/L		100
107)	Hexachlorobt	13.28	225	98101	49.05	ug/L		97

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D Vial: 29
Acq On : 15 Sep 2017 8:03 pm Operator: D.Lipani
Sample : R1708648-001DMS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:47 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

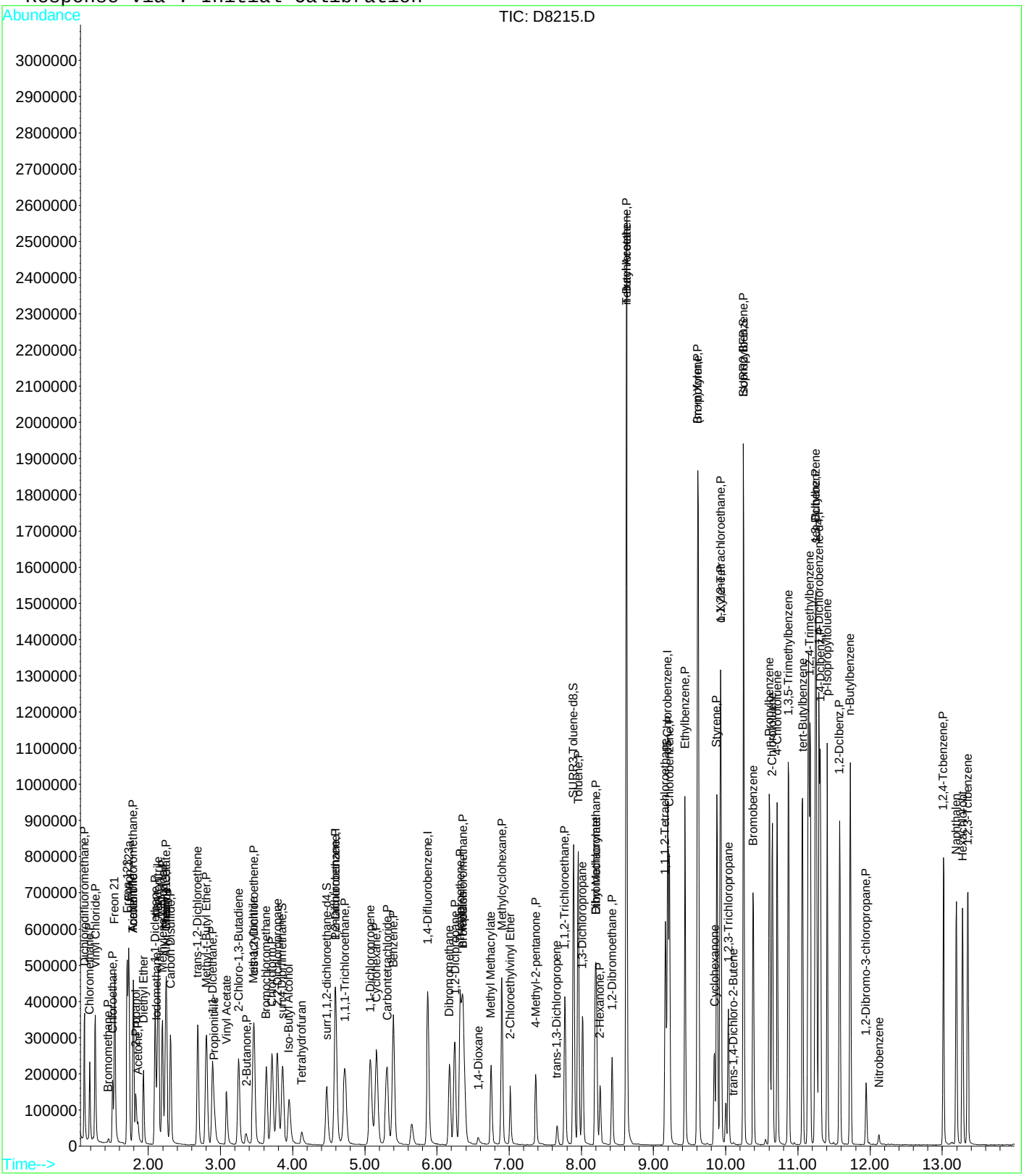
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) 1,2,3-Tclbenzene	13.35	180	180073	51.26	ug/L	99

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D Vial: 29
Acq On : 15 Sep 2017 8:03 pm Operator: D.Lipani
Sample : R1708648-001DMS|1.0 Inst : MS#6
Misc : Verina 8260C 7979 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 18 13:47 2017 Quant Results File: W082417.RES

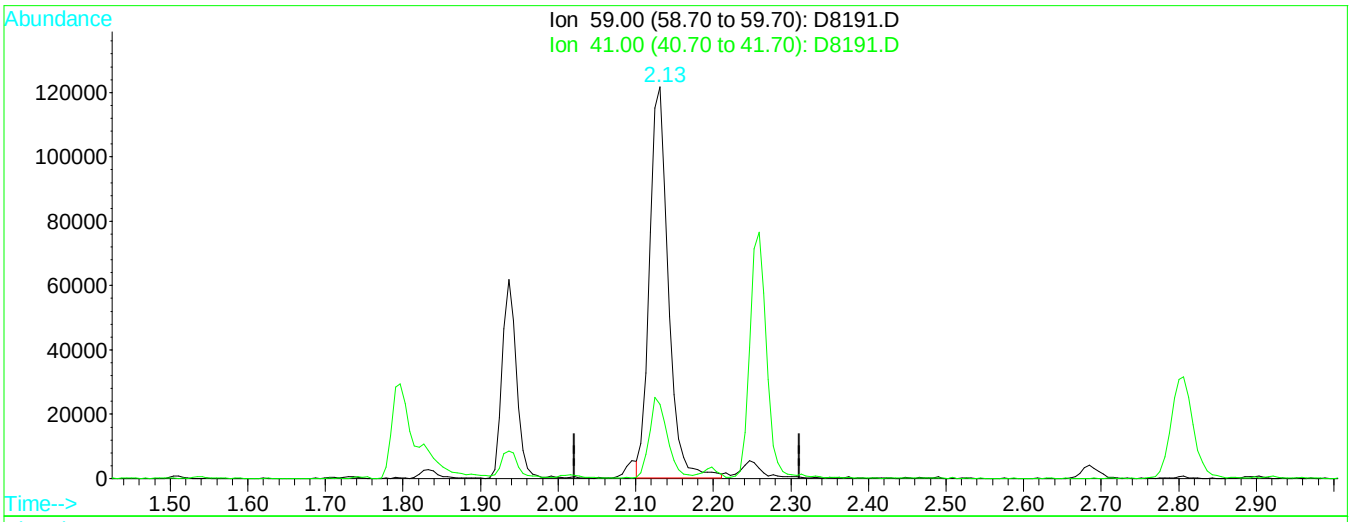
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:23:15 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 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 11:23:15 2017
Response via : Multiple Level Calibration



TIC: D8191.D

(18) TBA

2.13min 1017.53ug/L m

response 204351

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	18.90
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

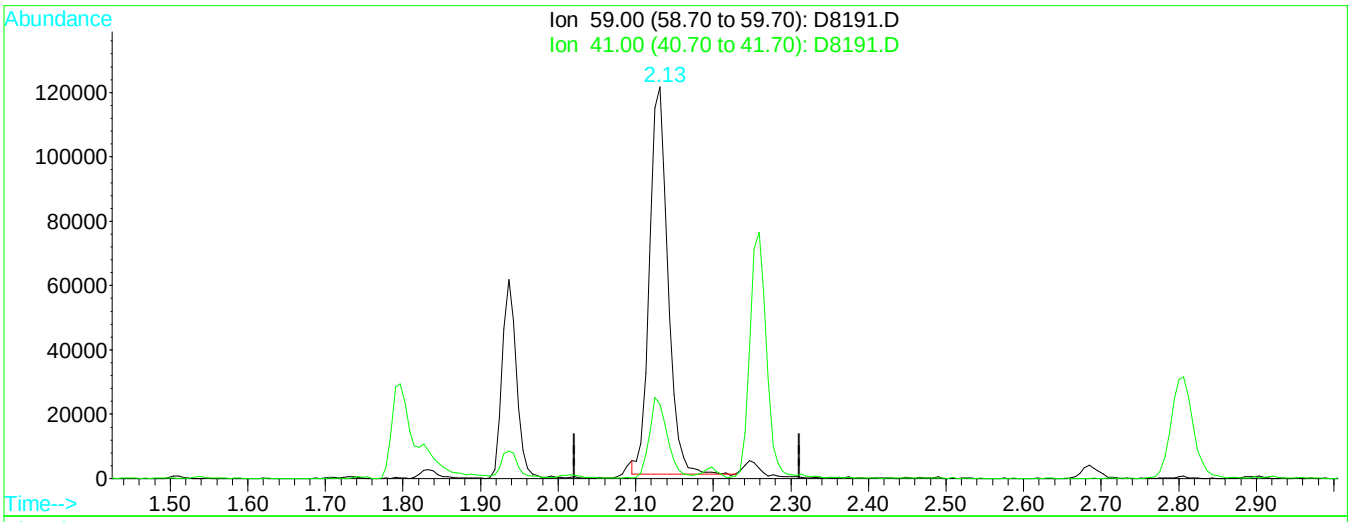
Poor integration.

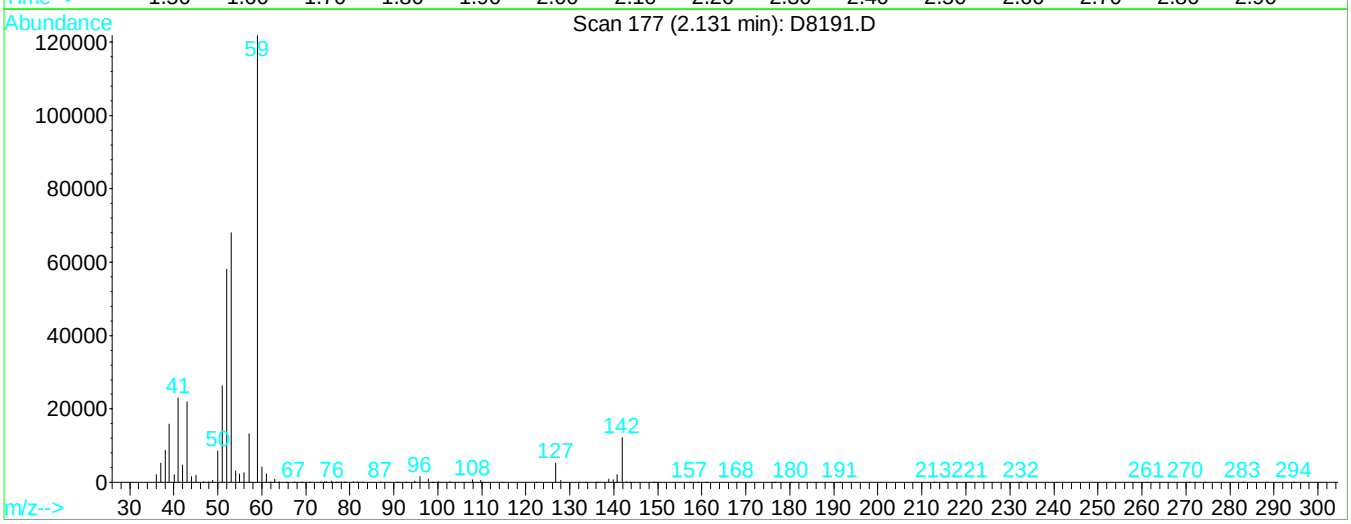
09/15/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 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 11:23:15 2017
Response via : Multiple Level Calibration





TIC: D8191.D

(18) TBA

2.13min 986.69ug/L

response 198158

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	18.90
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

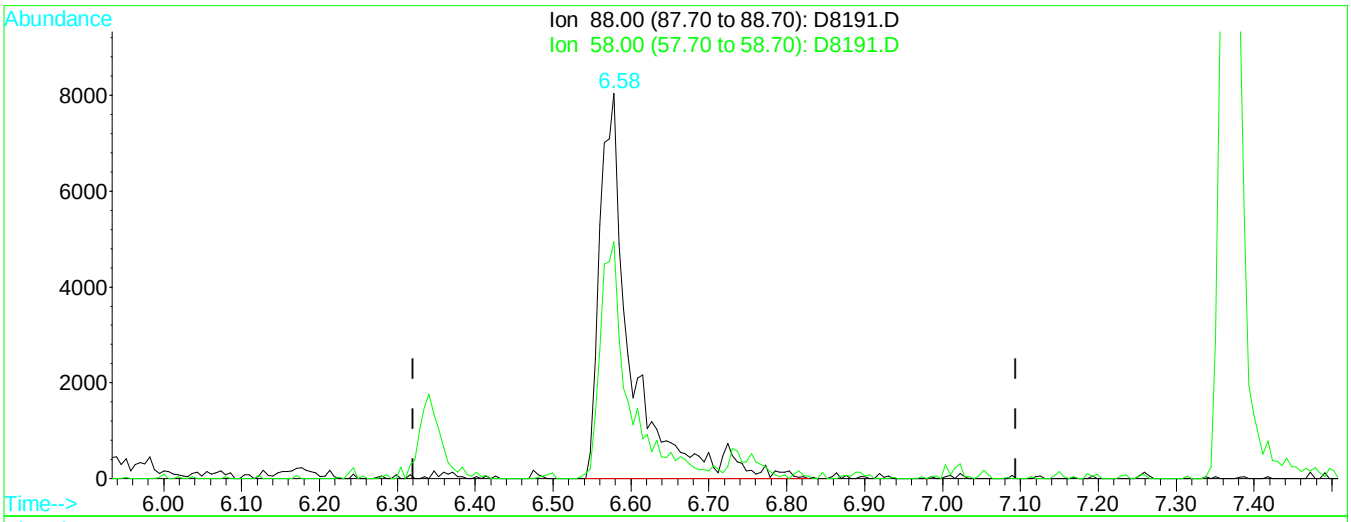
Before

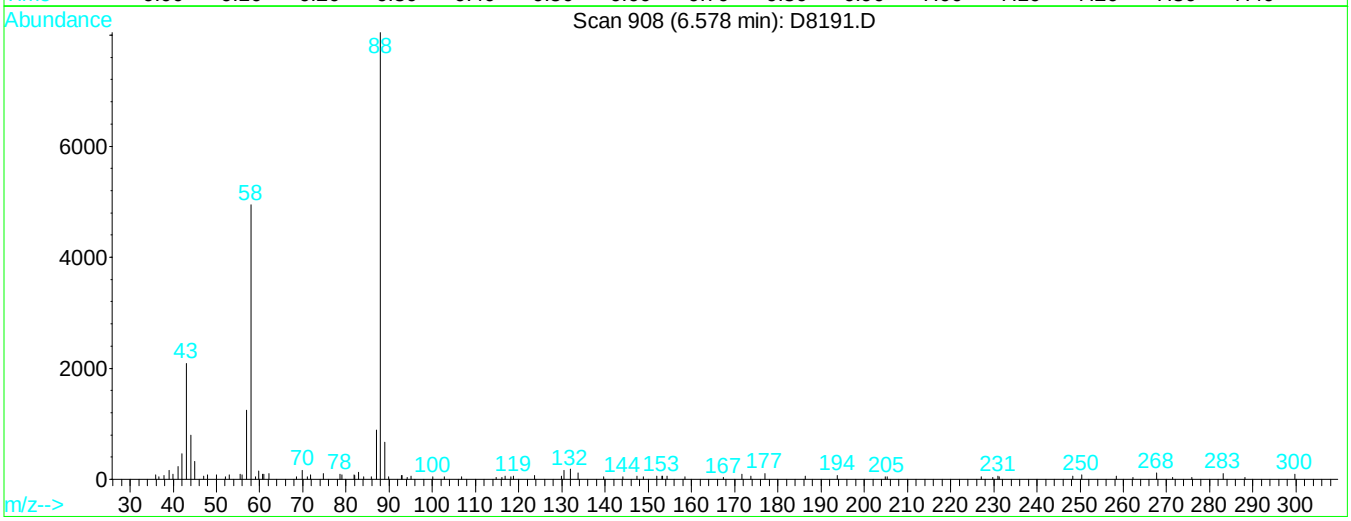
09/15/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 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 11:23:15 2017
Response via : Single Level Calibration





TIC: D8191.D

(56) 1,4-Dioxane

6.58min 1063.96ug/L m

response 22402

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	61.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

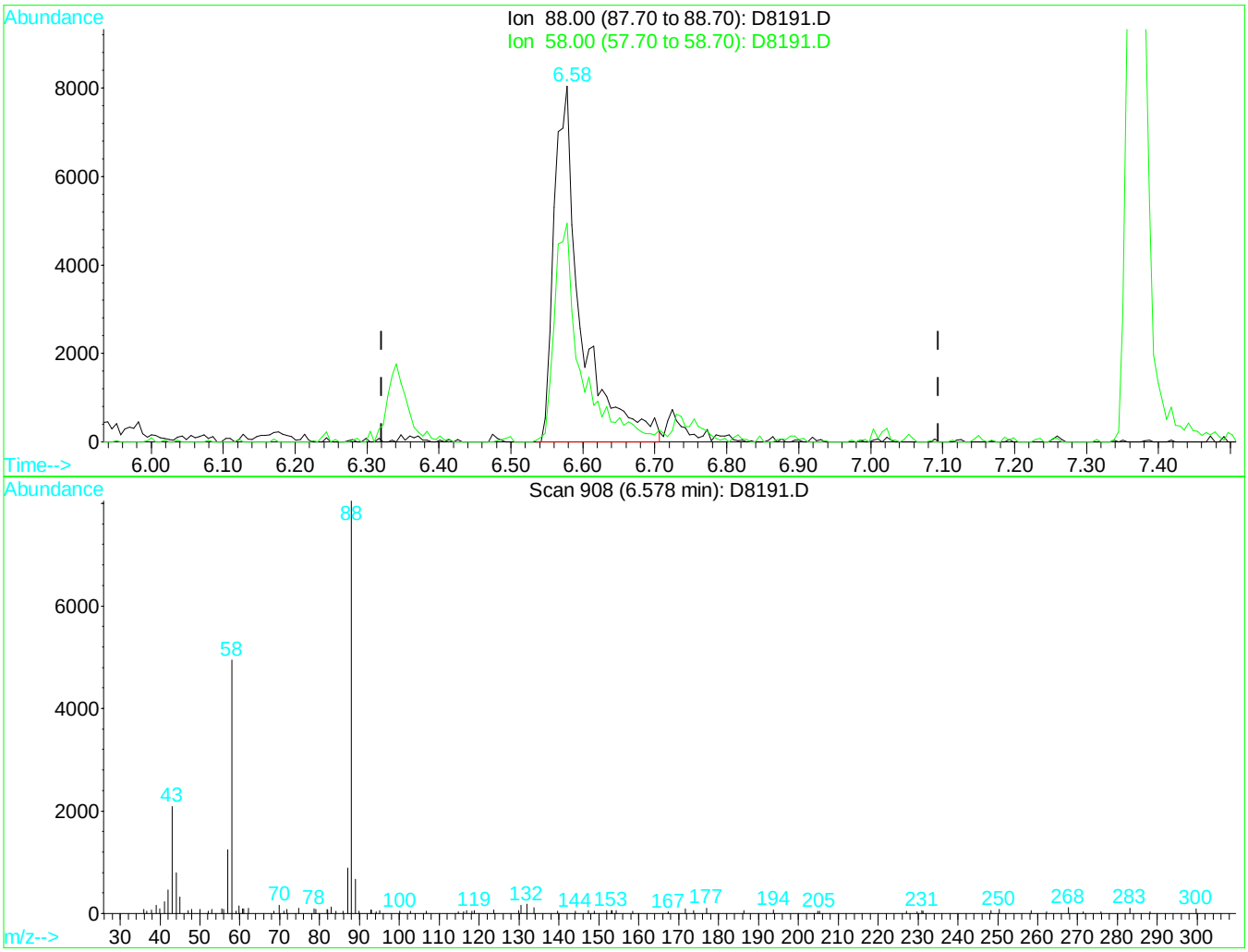
Split Peak.

09/15/17

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 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 11:23:15 2017
Response via : Single Level Calibration



TIC: D8191.D

(56) 1,4-Dioxane

6.58min 993.29ug/L

response 20914

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	61.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/15/17

D8191.D W082417.M Fri Sep 15 09:52:11 2017

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C 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)	
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	110	0.00	
2	P	Dichlorodifluoromethane	0.7458	0.7393	0.9	116	0.00	
3	P	Chloromethane	0.4952	0.5348	-8.0	126	0.00	
4	P	Vinyl Chloride	0.6105	0.6544	-7.2	125	0.00	
5	P	Bromomethane	0.3680	0.3852	-4.7	129	0.00	
6	P	Chloroethane	0.2991	0.3302	-10.4	130	0.00	
7		Freon 21	0.9077	0.8460	6.8	116	0.00	
8		Freon 123	0.5637	0.5594	0.8	123	0.00	
9		Freon 123a	0.4479	0.4395	1.9	120	0.00	
10		Acrolein	0.0396	0.0464	-17.2	129	0.00	
11	P	Trichlorofluoromethane	0.6822	0.6555	3.9	109	0.00	
12		Acetonitrile	0.0272	0.0286	-5.1	118	0.00	
13		2-Propanol	0.0187	0.0171	8.6	101	0.00	
14	P	Acetone	0.0936	0.1051	-12.3	115	0.00	
15		Diethyl Ether	0.2409	0.2513	-4.3	123	0.00	
16	P	1,1-Diclethene	0.3445	0.3639	-5.6	121	0.00	
17		Iodomethane	0.5598	0.5152	8.0	100	0.00	
18		TBA	0.0321	0.0326	-1.6	111	0.00	
19		Acrylonitrile	0.1037	0.1117	-7.7	121	0.00	
20	P	Methylene Chloride	0.3660	0.4019	-9.8	128	0.00	
21	P	Freon 113	0.3936	0.4036	-2.5	119	0.00	
22	P	Methyl Acetate	0.3086	0.2206	28.5#	78	0.00	NT
23		Allyl Chloride	0.1418	0.1580	-11.4	124	0.00	
24	P	Carbon Disulfide	1.0538	1.0563	-0.2	115	0.00	
25		trans-1,2-Dichloroethene	0.3670	0.3962	-8.0	125	0.00	
26	P	Methyl-t-Butyl Ether	0.9433	0.9856	-4.5	117	0.00	
27	P	1,1-Diclethane	0.5569	0.6164	-10.7	123	0.00	
28		Propionitrile	0.0374	0.0424	-13.4	120	0.00	
29		Vinyl Acetate	0.6616	0.6872	-3.9	113	0.00	
30		2-Chloro-1,3-Butadiene	0.4924	0.5074	-3.0	111	0.00	
31	P	2-Butanone	0.1256	0.1240	1.3	109	0.00	
32		Methacrylonitrile	0.1218	0.1362	-11.8	126	0.00	
33	P	cis-1,2-Dichloroethene	0.3919	0.4443	-13.4	128	0.00	
34		Bromochloromethane	0.2224	0.2370	-6.6	121	0.00	
35	P	Chloroform	0.6676	0.7097	-6.3	123	0.00	
36		2,2-Dichloropropane	0.6087	0.6127	-0.7	117	0.00	
37		Ethyl Acetate	0.2627	0.0000	~~100.0#~~	0#	-3.81#	
38		Tetrahydrofuran	0.0754	0.0841	-11.5	119	0.00	
39	P	1,1,1-Trichloroethane	0.6482	0.6436	0.7	117	0.00	
40	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	114	0.00	
41	S	surr4,Dibrflmethane	0.3586	0.3668	-2.3	112	0.00	
42		Iso-Butyl Alcohol	0.0056	0.0054	3.6	111	0.00	
43	S	surr1,1,2-dichloroethane-d4	0.3884	0.3764	3.1	107	0.00	
44	P	1,2-Dichloroethane	0.1370	0.1309	4.5	119	0.00	
45		2-Methyl-1,3-Dioxolane	0.0332	0.0000	~~100.0#~~	0#	-4.82#	
46		1,1-Dichloropropene	0.3622	0.3764	-3.9	121	0.00	
47	P	Cyclohexane	0.3720	0.3704	0.4	125	0.00	
48	P	Carbontetrachloride	0.4025	0.4061	-0.9	117	0.00	
49	P	Benzene	0.9800	0.9966	-1.7	122	0.00	
50		Isopropyl Acetate	0.4836	0.0000	~~100.0#~~	0#	-5.41#	
51		Dibromomethane	0.2072	0.2002	3.4	118	0.00	
52	P	1,2-Diclpropane	0.2503	0.2622	-4.8	124	0.00	
53		n-Heptane	0.2740	0.2943	-7.4	128	0.00	

(#) = Out of Range

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C 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)	
54	P	Trichloroethene	0.3242	0.3253	-0.3	119	0.00	
55	P	Bromodichloromethane	0.3876	0.4102	-5.8	126	0.00	
56		1,4-Dioxane	0.0025	0.0027	-8.0	117	0.00	
57		Epichlorohydrin	0.0200	0.0000	~~100.0#~~	0#	-6.73#	
58		Methyl Methacrylate	0.1690	0.1700	-0.6	117	0.00	
59	P	Methylcyclohexane	0.2887	0.2929	-1.5	122	0.00	
60		2-Chloroethylvinyl Ether	0.1569	0.1508	3.9	111	0.00	
61	P	cis-1,3-Dichloropropene	0.4338	0.4453	-2.7	119	0.00	
62	P	4-Methyl-2-pentanone	0.2245	0.2073	7.7	102	0.00	
63		trans-1,3-Dichloropropene	0.4075	0.4210	-3.3	120	0.00	
64	P	1,1,2-Trichloroethane	0.2466	0.2612	-5.9	122	0.00	
65	S	SURR3,Toluene-d8	1.0124	1.0983	-8.5	113	0.00	
66	P	Toluene	1.1125	1.0864	2.3	119	0.00	
67	I	d5-Chlorobenzene	1.0000	1.0000	0.0	120	0.00	
68		1,3-Dichloropropane	0.8371	0.8273	1.2	123	0.00	
69		Ethyl Methacrylate	0.6757	0.6697	0.9	115	0.00	
70	P	Dibromochloromethane	0.6876	0.7368	-7.2	127	0.00	
71	P	2-Hexanone	0.3374	0.3128	7.3	102	0.00	
72	P	1,2-Dibromoethane	0.6037	0.6163	-2.1	124	0.00	
73		n-Butyl Acetate	0.7720	0.7234	6.3	105	0.00	
74	P	Tetrachloroethene	0.5970	0.5945	0.4	121	0.00	
75		1,1,1,2-Tetrachloroethane	0.6239	0.6365	-2.0	121	0.00	
76	P	Chlorobenzene	1.5799	1.5375	2.7	118	0.00	
77	P	Ethylbenzene	0.8331	0.8383	-0.6	120	0.00	
78	P	Bromoform	0.4628	0.5264	-13.7	130	0.00	
79	P	(m+p)Xylene	1.0428	0.9934	4.7	117	0.00	
80	P	o-Xylene	1.0035	1.0046	-0.1	117	0.00	
81		Cyclohexanone	0.0192	0.0297	-54.7#	183	0.00	NT
82	P	Styrene	1.6035	1.6118	-0.5	119	0.00	
83		Amyl Acetate	1.0525	0.0000	~~100.0#~~	0#	-9.99#	
84		trans-1,4-Dichloro-2-Butene	0.2333	0.2195	5.9	115	0.00	
85	P	Isopropylbenzene	2.5600	2.3827	6.9	116	0.00	
86	S	SURR2,BFB	0.9365	1.0009	-6.9	118	0.00	
87	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	116	0.00	
88	P	1,1,2,2-Tetrachloroethane	0.5973	0.6115	-2.4	118	0.00	
89		1,2,3-Trichloropropane	0.4508	0.4381	2.8	119	0.00	
90		Bromobenzene	0.7413	0.7014	5.4	116	0.00	
91		n-Propylbenzene	2.6504	2.3950	9.6	117	0.00	
92		2-Chlorotoluene	1.5416	1.3945	9.5	123	0.00	
93		4-Chlorotoluene	1.6577	1.5602	5.9	117	0.00	
94		1,3,5-Trimethylbenzene	1.8392	1.6932	7.9	115	0.00	
95		tert-Butylbenzene	1.5994	1.4664	8.3	114	0.00	
96		1,2,4-Trimethylbenzene	1.9719	1.7942	9.0	117	0.00	
97		sec-Butylbenzene	2.2802	2.1308	6.6	116	0.00	
98	P	1,3-Dclbenz	1.2605	1.2335	2.1	117	0.00	
99	P	1,4-Dclbenz	1.2773	1.2521	2.0	118	0.00	
100		p-Isopropyltoluene	1.8793	1.8580	1.1	119	0.00	
101	P	1,2-Dclbenz	1.2610	1.1682	7.4	116	0.00	
102		n-Butylbenzene	1.7319	1.6968	2.0	119	0.00	
103	P	1,2-Dibromo-3-chloropropane	0.1100	0.1090	0.9	112	0.00	
104		Nitrobenzene	0.0078	0.0227	-191.0#	430#	0.00	NT
105	P	1,2,4-Tcbenzene	0.8686	0.7861	9.5	111	0.00	

(#) = Out of Range

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C 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	1.4569	11.3	104	0.00
107	Hexachlorobt	0.4255	0.4116	3.3	116	0.00
108	1,2,3-Tclbenzene	0.7474	0.7130	4.6	110	0.00

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 9:52 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	313170	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	419445	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	203036	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	235963	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.86	113	153861	51.14	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.28%			
43) surr1,1,2-dichloroethane-d	4.47	65	157867	48.45	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 96.90%			
65) SURR3,Toluene-d8	7.89	98	460696	54.24	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.48%			
86) SURR2,BFB	10.25	95	203223	53.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.12	85	231533	49.57	ug/L	97
3) Chloromethane	1.19	50	167489	54.00	ug/L	99
4) Vinyl Chloride	1.27	62	204949	53.59	ug/L	98
5) Bromomethane	1.44	94	120646	52.35	ug/L	96
6) Chloroethane	1.50	64	103399	55.20	ug/L	96
7) Freon 21	1.53	67	264949	46.60	ug/L	100
8) Freon 123	1.71	83	175181	49.62	ug/L	97
9) Freon 123a	1.73	67	137651	49.06	ug/L	99
10) Acrolein	1.78	56	72705	293.35	ug/L	97
11) Trichlorofluoromethane	1.79	101	205286	48.04	ug/L	99
12) Acetonitrile	1.80	41	44847	263.12	ug/L	97
13) 2-Propanol	1.83	45	107227	914.81	ug/L	95
14) Acetone	1.86	43	32907	56.13	ug/L	96
15) Diethyl Ether	1.94	59	78692	52.14	ug/L	95
16) 1,1-Diclethene	2.09	96	113956	52.81	ug/L	97
17) Iodomethane	2.11	142	161354	46.02	ug/L	95
18) TBA	2.13	59	204351m	1017.53	ug/L	
19) Acrylonitrile	2.14	53	174861	269.25	ug/L	100
20) Methylene Chloride	2.20	84	125854	54.90	ug/L	95
21) Freon 113	2.24	101	126395	51.28	ug/L	98
22) Methyl Acetate	2.25	43	69073	35.74	ug/L	95
23) Allyl Chloride	2.26	76	49474	55.69	ug/L	99
24) Carbon Disulfide	2.31	76	330798	50.12	ug/L	100
25) trans-1,2-Dichloroethene	2.68	96	124080	53.97	ug/L	93
26) Methyl-t-Butyl Ether	2.81	73	308669	52.24	ug/L	99
27) 1,1-Diclethane	2.89	63	193034	55.34	ug/L	97
28) Propionitrile	2.92	54	66448	283.92	ug/L	98
29) Vinyl Acetate	3.09	43	215207	51.93	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.25	53	158894	51.52	ug/L	96
31) 2-Butanone	3.35	43	38825	49.36	ug/L	96
32) Methacrylonitrile	3.45	67	42642	55.90	ug/L #	89
33) cis-1,2-Dichloroethene	3.46	96	139154	56.68	ug/L	99
34) Bromochloromethane	3.64	128	74215	53.29	ug/L	96
35) Chloroform	3.71	83	222269	53.16	ug/L	94
36) 2,2-Dichloropropane	3.79	77	191885	50.33	ug/L	97
38) Tetrahydrofuran	4.13	42	26339	55.80	ug/L	96
39) 1,1,1-Trichloroethane	4.72	97	201568	49.65	ug/L	97
42) Iso-Butyl Alcohol	3.94	42	45460	969.10	ug/L #	88
44) 1,2-Dichloroethane	4.59	64	54893	47.77	ug/L	95

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 9:52 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	157890	51.96	ug/L	97
47)	Cyclohexane	5.16	56	155347	49.79	ug/L	96
48)	Carbontetrachloride	5.31	119	170350	50.45	ug/L	96
49)	Benzene	5.39	78	418035	50.85	ug/L	99
51)	Dibromomethane	6.17	93	83992	48.32	ug/L	98
52)	1,2-Diclpropane	6.24	63	109981	52.37	ug/L	93
53)	n-Heptane	6.34	43	123453	53.70	ug/L	93
54)	Trichloroethene	6.32	130	136456	50.17	ug/L	97
55)	Bromodichloromethane	6.37	83	172060	52.92	ug/L	98
56)	1,4-Dioxane	6.58	88	22402m	1063.96	ug/L	
58)	Methyl Methacrylate	6.75	69	71317	50.31	ug/L	98
59)	Methylcyclohexane	6.90	55	122841	50.72	ug/L	97
60)	2-Chloroethylvinyl Ether	7.02	63	63269	48.05	ug/L	96
61)	cis-1,3-Dichloropropene	7.17	75	186779	51.32	ug/L	98
62)	4-Methyl-2-pentanone	7.37	43	86943	46.17	ug/L	98
63)	trans-1,3-Dichloropropene	7.66	75	176570	51.65	ug/L	99
64)	1,1,2-Trichloroethane	7.77	97	109569	52.96	ug/L	98
66)	Toluene	7.96	91	455690	48.83	ug/L	99
68)	1,3-Dichloropropane	8.01	76	167972	49.41	ug/L	95
69)	Ethyl Methacrylate	8.19	69	135978	49.56	ug/L	91
70)	Dibromochloromethane	8.21	129	149590	53.58	ug/L	98
71)	2-Hexanone	8.26	43	63514	46.35	ug/L	95
72)	1,2-Dibromoethane	8.43	107	125123	51.04	ug/L	96
73)	n-Butyl Acetate	8.63	43	146870	46.85	ug/L	99
74)	Tetrachloroethene	8.62	164	120701	49.79	ug/L	98
75)	1,1,1,2-Tetrachloroethane	9.16	131	129223	51.01	ug/L	95
76)	Chlorobenzene	9.22	112	312176	48.66	ug/L	98
77)	Ethylbenzene	9.44	106	170213	50.31	ug/L	97
78)	Bromoform	9.61	173	106869	56.86	ug/L	99
79)	(m+p)Xylene	9.61	106	403405	95.26	ug/L	96
80)	o-Xylene	9.93	106	203970	50.06	ug/L	98
81)	Cyclohexanone	9.84	55	120719	1547.34	ug/L	93
82)	Styrene	9.88	104	327254	50.26	ug/L	98
84)	trans-1,4-Dichloro-2-Buten	10.10	75	44566	47.04	ug/L	93
85)	Isopropylbenzene	10.25	105	483778	46.54	ug/L	98
88)	1,1,2,2-Tetrachloroethane	9.92	83	144286	51.18	ug/L	98
89)	1,2,3-Trichloropropane	10.03	75	103369	48.59	ug/L	97
90)	Bromobenzene	10.38	156	165502	47.31	ug/L	98
91)	n-Propylbenzene	10.61	91	565126	45.18	ug/L	99
92)	2-Chlorotoluene	10.65	91	329056	45.23	ug/L	100
93)	4-Chlorotoluene	10.71	91	368149	47.06	ug/L	99
94)	1,3,5-Trimethylbenzene	10.87	105	399521	46.03	ug/L	99
95)	tert-Butylbenzene	11.06	119	346011	45.84	ug/L	99
96)	1,2,4-Trimethylbenzene	11.17	105	423369	45.50	ug/L	96
97)	sec-Butylbenzene	11.24	105	502782	46.72	ug/L	100
98)	1,3-Dclbenz	11.26	146	291063	48.93	ug/L	99
99)	1,4-Dclbenz	11.31	146	295460	49.02	ug/L	99
100)	p-Isopropyltoluene	11.41	119	438423	49.43	ug/L	99
101)	1,2-Dclbenz	11.58	146	275648	46.32	ug/L	99
102)	n-Butylbenzene	11.72	91	400384	48.99	ug/L	97
103)	1,2-Dibromo-3-chloropropan	11.94	75	25723	49.55	ug/L	94
104)	Nitrobenzene	12.13	77	10722	292.42	ug/L	91
105)	1,2,4-Tcbenzene	13.01	180	185491	45.25	ug/L	99
106)	Naphthalen	13.19	128	343784	44.36	ug/L	99

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 9:52 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

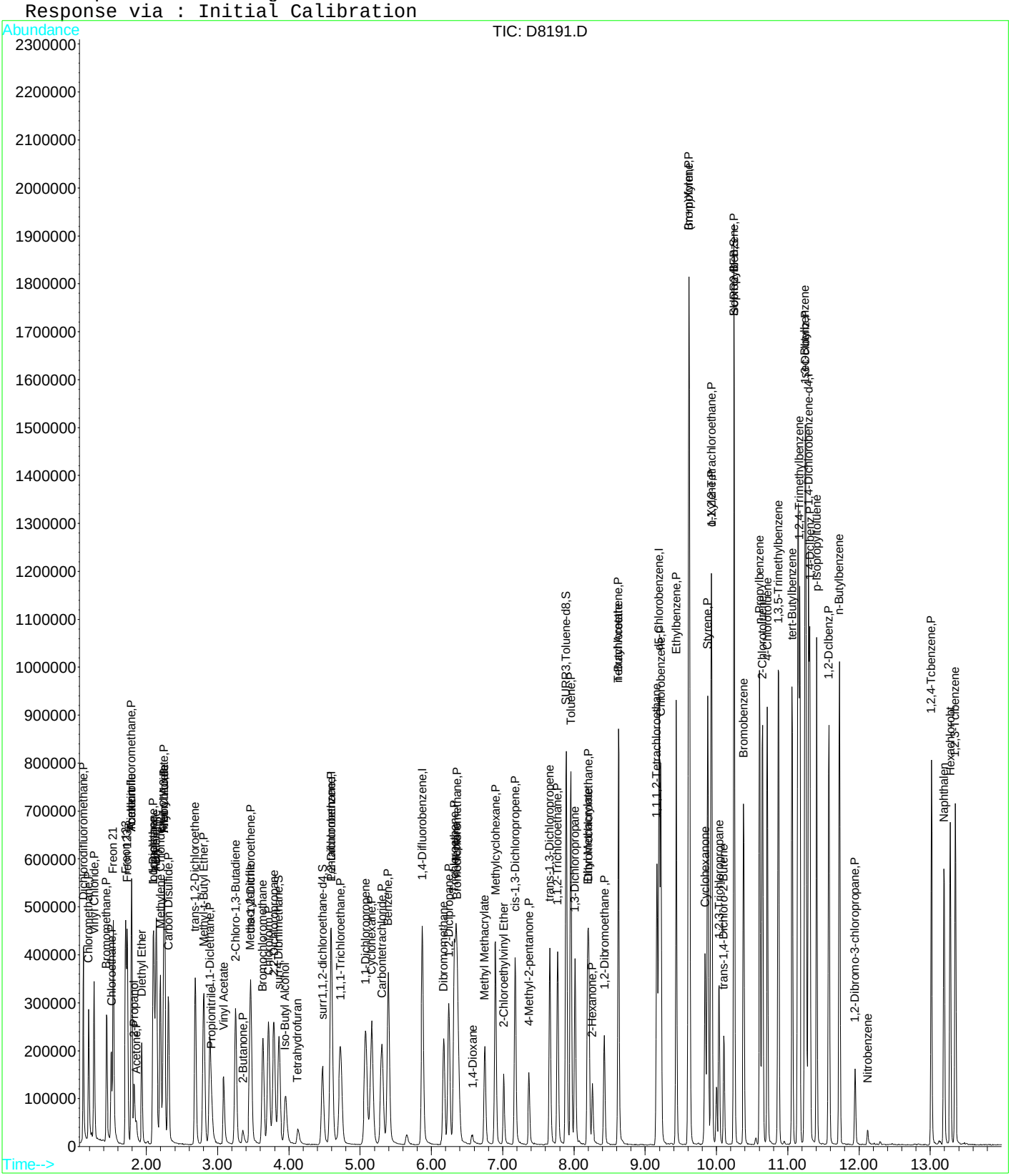
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
107) Hexachlorobt	13.28	225	97113	48.36	ug/L	98
108) 1,2,3-Tclbenzene	13.35	180	168230	47.70	ug/L	98

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

1st DL 09/18/17
2nd BA 09/20/17

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D Vial: 5
Acq On : 15 Sep 2017 9:31 am Operator: D.Lipani
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Sep 15 9:52 2017 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



GC/MS QA-QC Check Report

1st DL 09/18/17
2nd BA 09/20/17

Tune File : I:\ACQUDATA\MSVOA6\DATA\091517\D8190.D
Tune Time : 15 Sep 2017 8:53 am

Daily Calibration File : I:\ACQUDATA\MSVOA6\DATA\091517\D8190.D

295075 400269 198742

207347

File	Sample	Surrogate Recovery %				Internal Standard Responses		
D8192.D	LCS	103	97	109	106	312409	420814	195627
						224814		
D8194.D	MET BLK	100	96	110	103	292995	403145	188978
						205837		
D8195.D	R1708648-003	100	94	109	104	287765	398801	187664
						205462		
D8196.D	R1708648-004	103	99	111	102	283017	383061	185427
						203624		
D8197.D	R1708648-005	101	98	110	101	286827	393978	185043
						201851		
D8198.D	R1708648-006	100	99	108	101	279586	388946	184402
						201506		
D8199.D	R1708648-007	100	95	108	101	287806	396236	183572
						200837		
D8200.D	R1708648-015	103	101	110	103	279946	381444	184649
						203565		
D8201.D	R1708648-008	104	103	112	102	285954	384606	185035
						198524		
D8202.D	R1708648-009	100	97	109	101	281036	392847	186712
						198799		
D8203.D	R1708648-012	100	100	108	99	288249	389142	185360
						202230		
D8204.D	R1708648-016	101	95	109	100	280992	384394	185147
						200780		
D8205.D	R1708648-014	100	98	110	101	287511	393686	184149
						201604		
D8206.D	R1708648-011	104	101	111	100	283037	378226	187014
						197902		
D8207.D	R1708648-010	98	95	109	103	276861	386632	182564
						198995		
D8208.D	R1708648-013	101	100	107	102	278180	384004	181316
						190357		
D8209.D	R1708648-010	99	98	110	99	284073	394846	183327
						201004		
D8210.D	R1708648-001	103	98	111	99	284291	387324	186725
						199757		
D8211.D	R1708648-002	102	98	108	101	272804	381811	183388
						196229		
D8212.D	R1708648-016	100	97	110	103	276248	384389	183235
						201767		
D8213.D	R1708648-002	102	98	111	99	276331	383681	183352

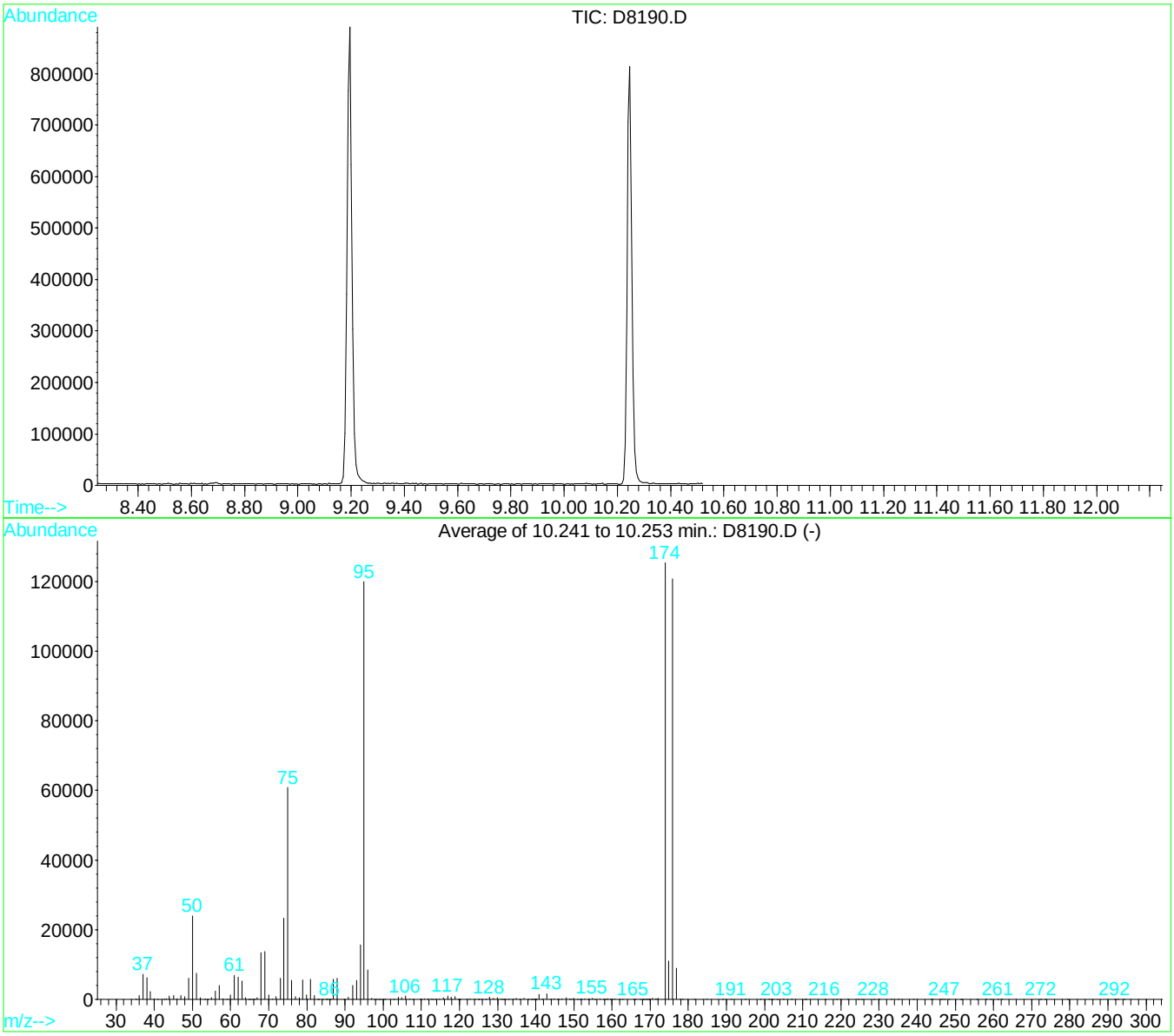
1st DL 09/18/17
2nd BA 09/20/17

```
                                199906
-------------------------------------------------------------------------------
D8214.D  R1708648-001MS 102   95  109  106      295949     405569     195477
                                224846
-------------------------------------------------------------------------------
D8215.D  R1708648-001DMS 102   98  109  105      309177     410305     201818
                                235032
-------------------------------------------------------------------------------
D8217.D  LCS       102   97  112  101      292792     399532     196433
                                218623
-------------------------------------------------------------------------------
D8220.D  MET BLK   101   97  109  101      283495     391508     190843
                                201199
-------------------------------------------------------------------------------
D8221.D  R1708637-001   99   95  108   99      281540     396061     189354
                                211106
-------------------------------------------------------------------------------
D8222.D  R1708637-002   99   95  108   99      277454     391729     186440
                                202664
-------------------------------------------------------------------------------
D8223.D  R1708637-003  100   96  108   99      278728     390654     192408
                                202666
-------------------------------------------------------------------------------
D8224.D  R1708637-004  100   97  111  102      282153     388116     184968
                                203842
-------------------------------------------------------------------------------
D8225.D  R1708637-005  100   94  111  101      279777     386549     188511
                                199952
-------------------------------------------------------------------------------
D8226.D  R1708637-006  100   96  109  106      277778     386718     182206
                                202213
-------------------------------------------------------------------------------
D8227.D  R1708637-007  104   95  109   98      282080     382240     190751
                                203822
-------------------------------------------------------------------------------
D8228.D  R1708641-001   99   94  109  100      284268     397844     189528
                                201302
-------------------------------------------------------------------------------
D8229.D  R1708641-002   98   98  111   97      286053     391060     192275
                                201685
-------------------------------------------------------------------------------
D8230.D  R1708641-003   98   96  107   98      277338     389058     186414
                                200407
-------------------------------------------------------------------------------
D8231.D  R1708568-001  103   95  109  102      278986     386413     186547
                                204474
-------------------------------------------------------------------------------
D8232.D  R1708568-002  100   95  111  100      279354     385491     185412
                                203679
-------------------------------------------------------------------------------
D8233.D  R1708568-003  102   96  114  100      281140     380175     187975
                                204564
-------------------------------------------------------------------------------
D8234.D  R1708568-004  102   95  109  100      283127     386327     185431
                                204772
-------------------------------------------------------------------------------
D8235.D  R1708641-003MS 104   95  111  106      294069     399987     197144
                                236999
-------------------------------------------------------------------------------
D8236.D  R1708641-003DMS  98   95  108  105      307343     421644     201643
                                231377
-------------------------------------------------------------------------------
    t - fails 12hr time check (8260C ONLY!)   * - fails criteria

    Created: Sun Sep 17 11:06:07 2017
```

BFB

Data File : I:\ACQUDATA\MSVOA6\DATA\091517\D8190.D Vial: 4
Acq On : 15 Sep 2017 8:53 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\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS



AutoFind: Scans 1510, 1511, 1512; 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	20.0	23937	PASS
75	95	30	60	50.7	60784	PASS
95	95	100	100	100.0	119885	PASS
96	95	5	9	7.1	8491	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	104.5	125328	PASS
175	174	5	9	8.8	11062	PASS
176	174	95	101	96.3	120712	PASS
177	176	5	9	7.4	8890	PASS

D8190.D W082417.M Fri Sep 15 09:05:06 2017

1st DL 08/25/17
2nd FJ 08/26/17

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 11:41 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) SURR3,Toluene-d8	7.89	98	408551	55.08	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.16%			
86) SURR2,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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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 11:41 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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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 11:41 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

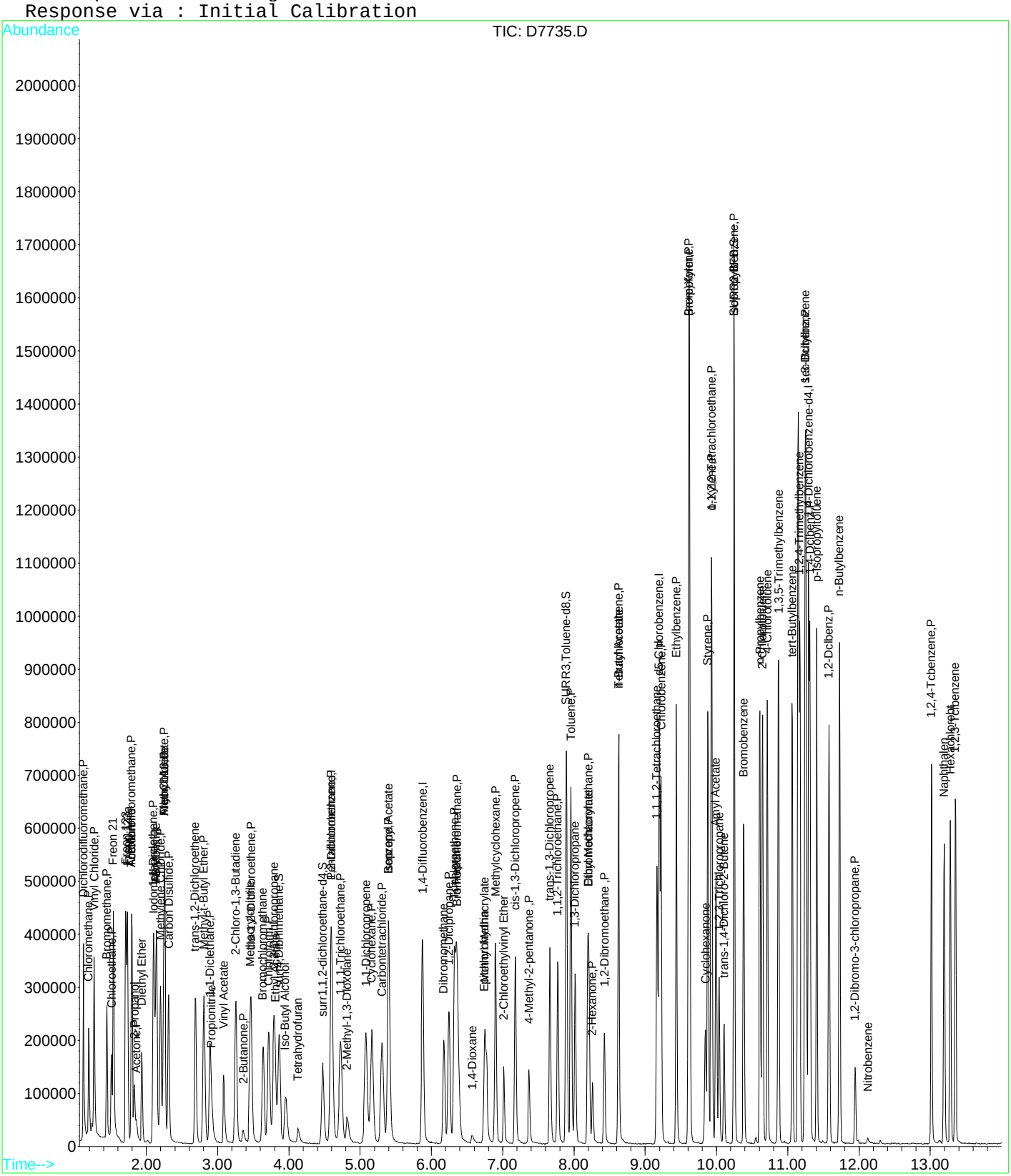
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.72	91	361184	50.49	ug/L	99
103) 1,2-Dibromo-3-chloropropan	11.94	75	23870	52.54	ug/L	96
104) Nitrobenzene	12.13	77	2801m	87.28	ug/L	
105) 1,2,4-Tcbenzene	13.01	180	175423	48.90	ug/L	98
106) Naphthalen	13.20	128	336803	49.65	ug/L	100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

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

1st DL 08/25/17
2nd FW 08/26/17

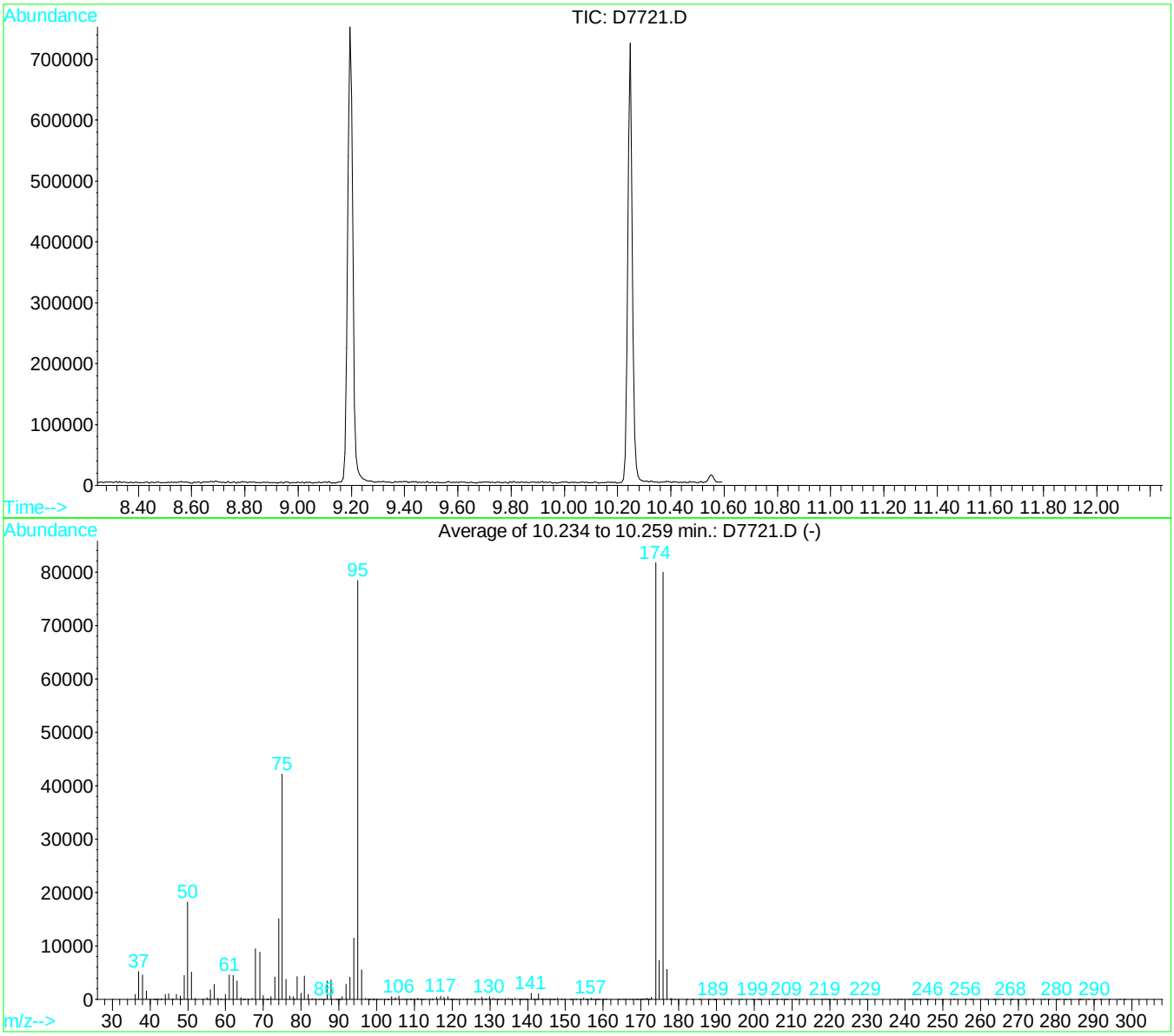
Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani
Sample : ICV Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 25 11:41 2017 Quant Results File: W082417.RES

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



BFB

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



Sub Scan = 1205

Spectrum Information: Average of 10.234 to 10.259 min.

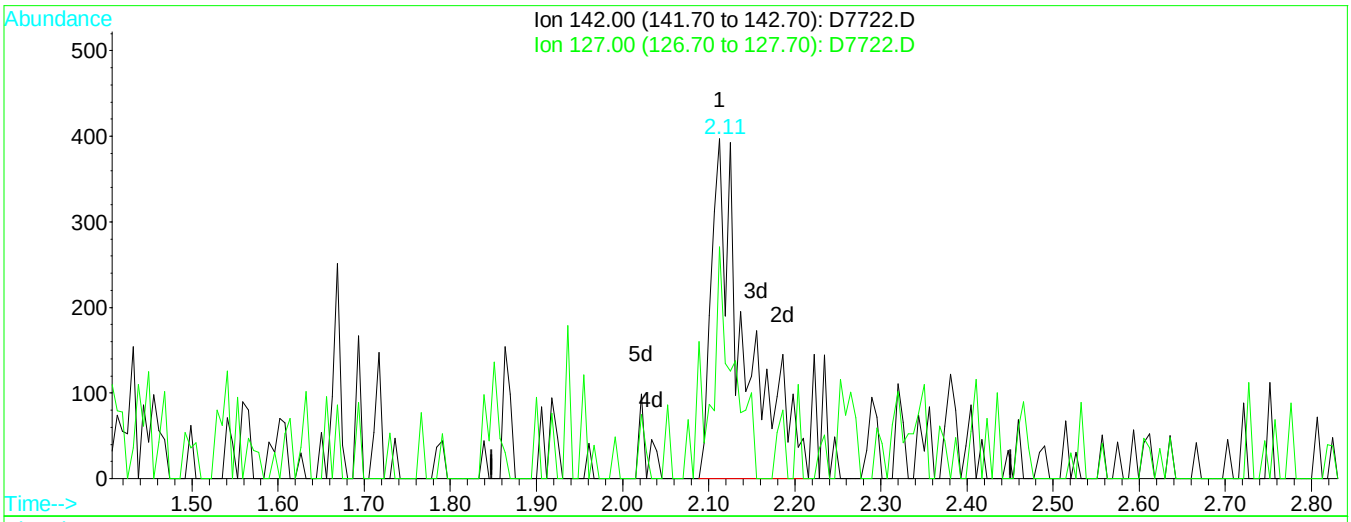
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	18244	PASS
75	95	30	60	53.7	42131	PASS
95	95	100	100	100.0	78433	PASS
96	95	5	9	7.1	5547	PASS
173	174	0.00	2	0.5	372	PASS
174	95	50	120	104.2	81707	PASS
175	174	5	9	9.0	7335	PASS
176	174	95	101	97.8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

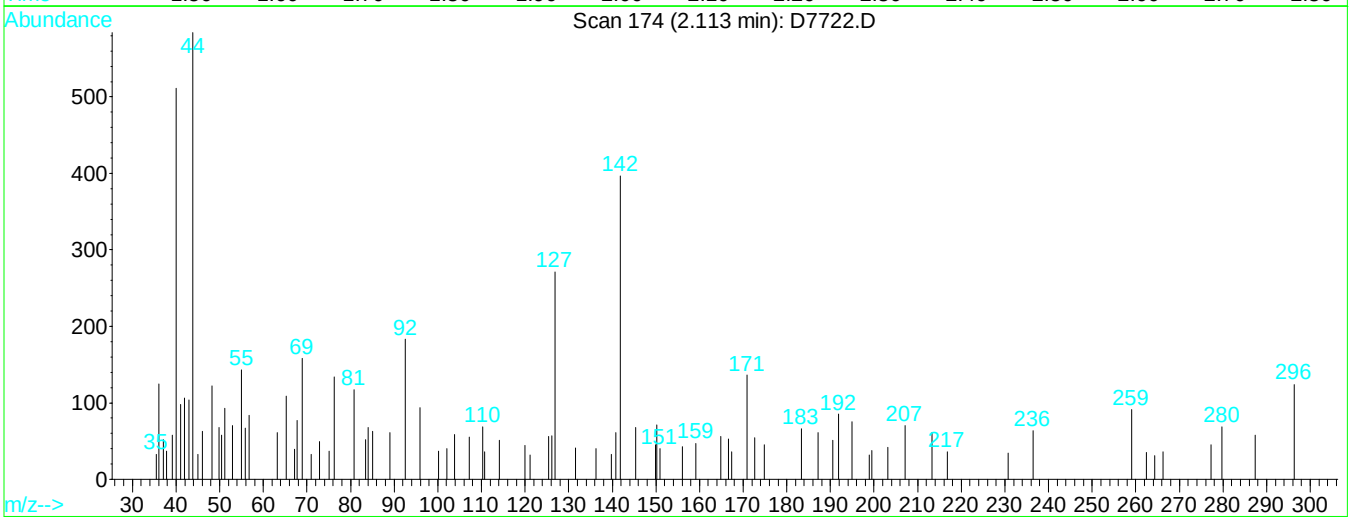
D7721.D W041117.M Thu Aug 24 08:52:07 2017

Quantitation Report (Qedit)

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

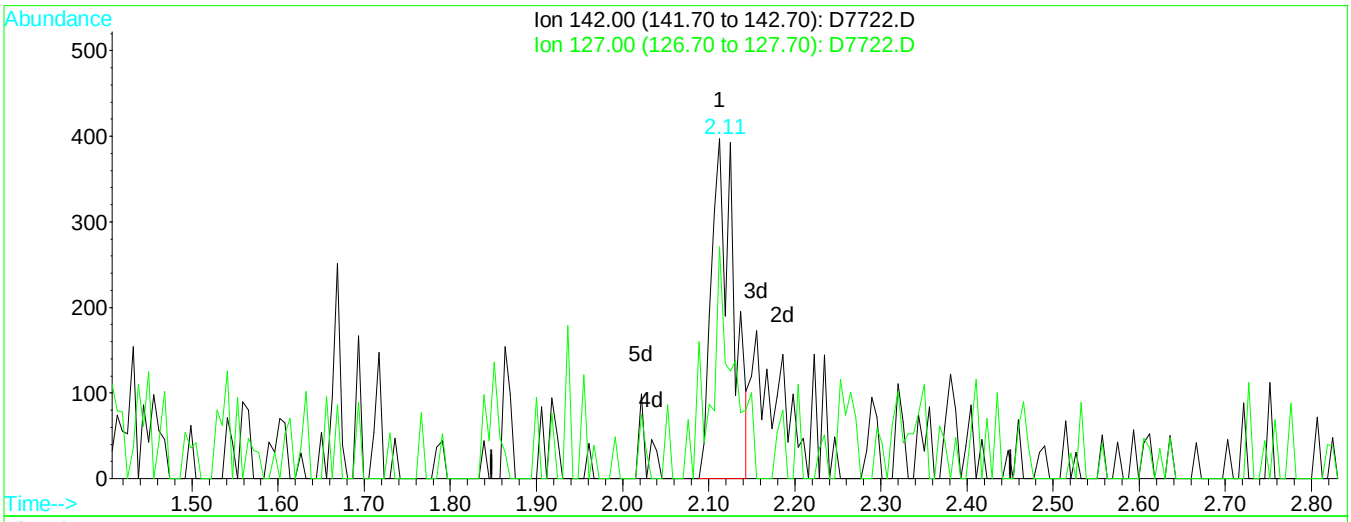
Split Peak.

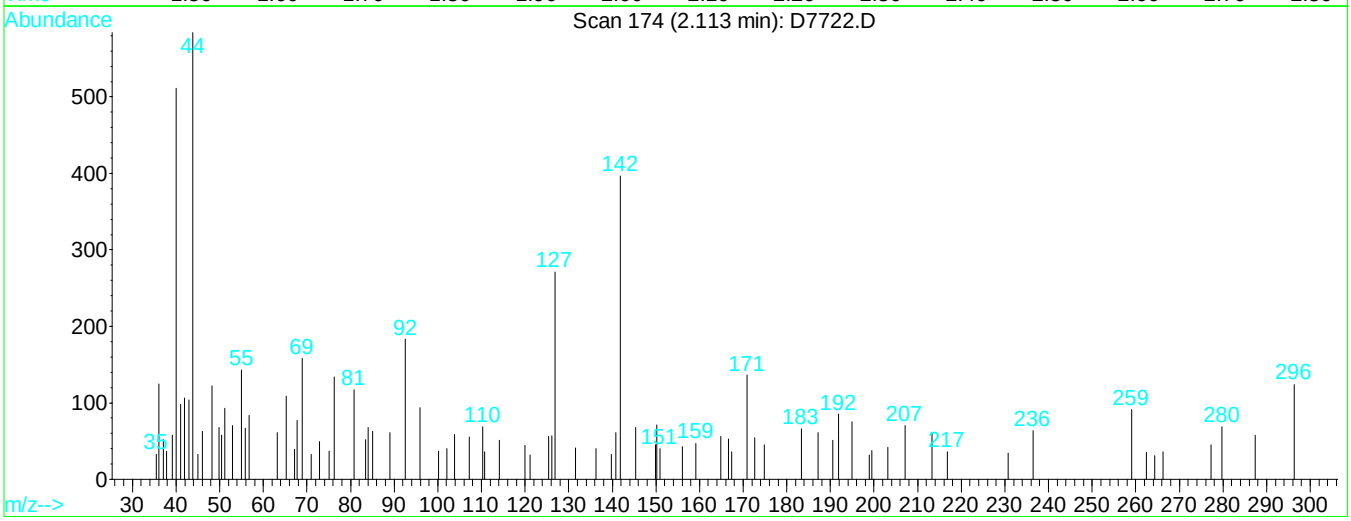
08/25/17

Quantitation Report (Qedit)

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

2.11min 0.24ug/L

response 700

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:

Before

08/25/17

D7722.D W082417.M Fri Aug 25 13:33:05 2017

Quantitation Report (QT Reviewed)

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

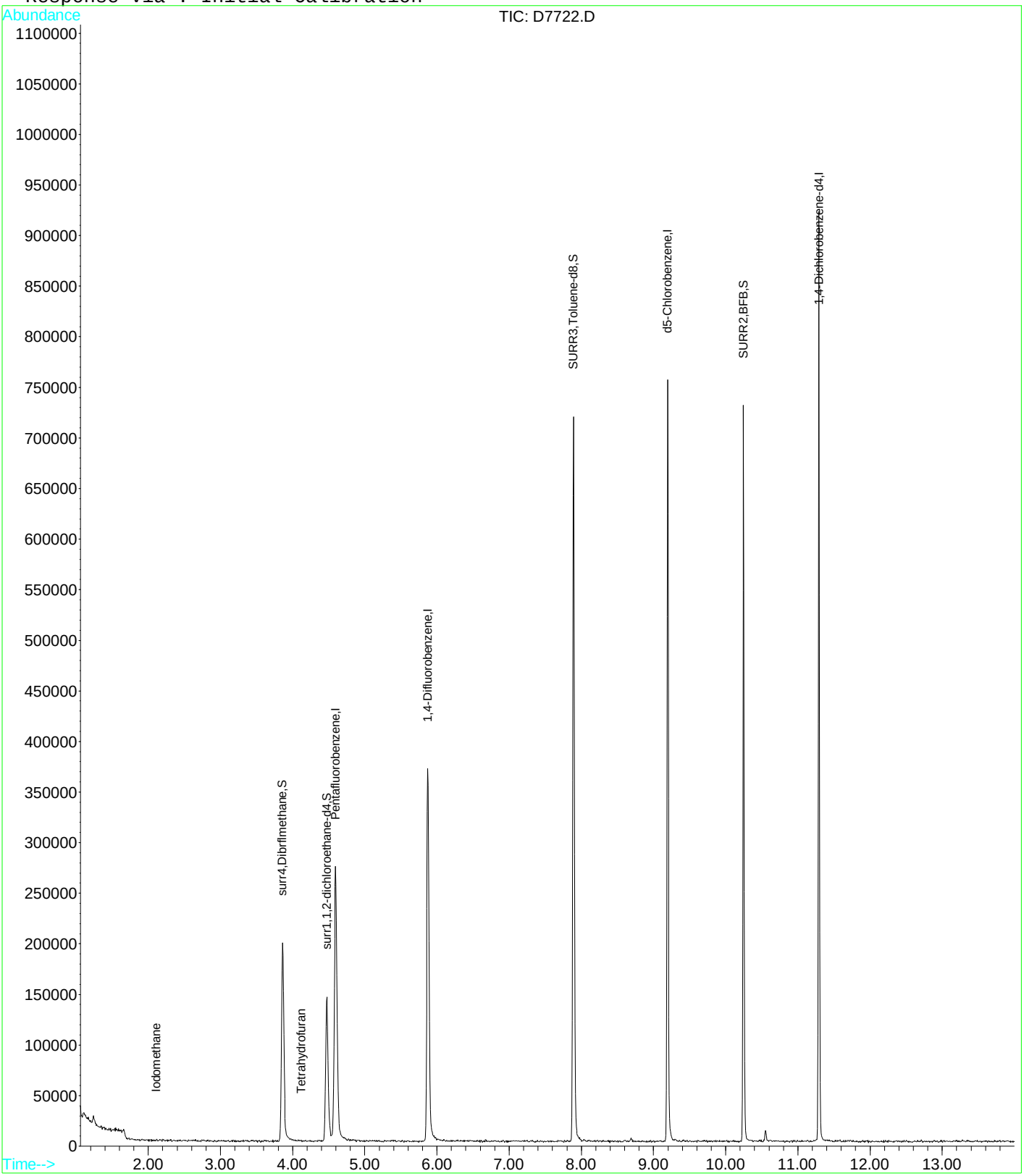
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	265908	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	352263	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	161327	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	181537	50.00	ug/L	0.00
System Monitoring Compounds						
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) SURR3,Toluene-d8	7.89	98	379301	53.18	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.36%			
86) SURR2,BFB	10.25	95	156742	51.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.74%			
Target Compounds						Qvalue
17) Iodomethane	2.11	142	1071m	0.36	ug/L	
38) Tetrahydrofuran	4.13	42	200	0.50	ug/L #	35

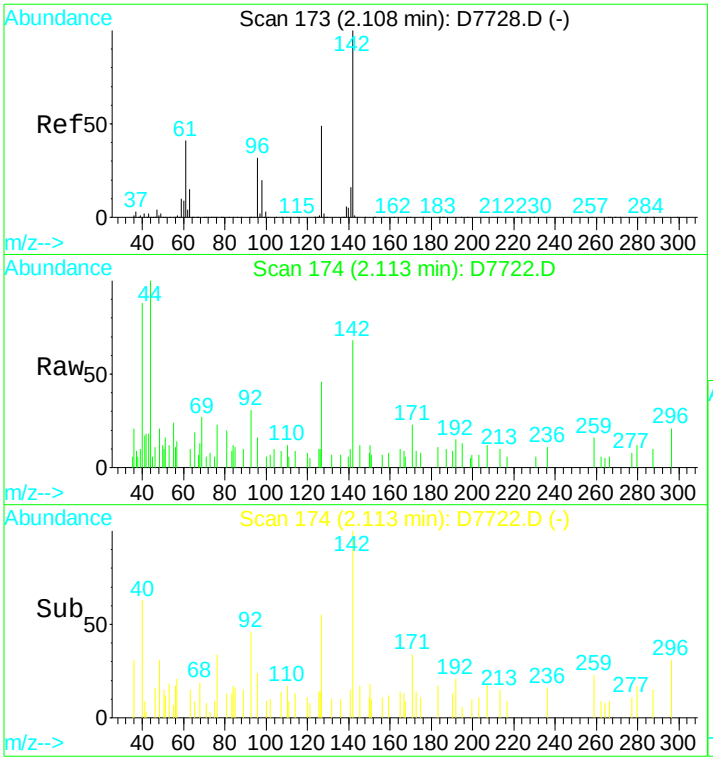
(#) = qualifier out of range (m) = manual integration

1st DL 08/25/17
2nd FJ 08/26/17

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 13:35 2017 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

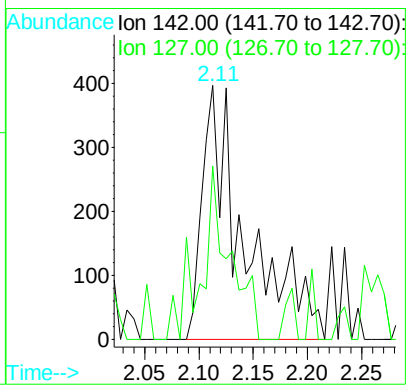


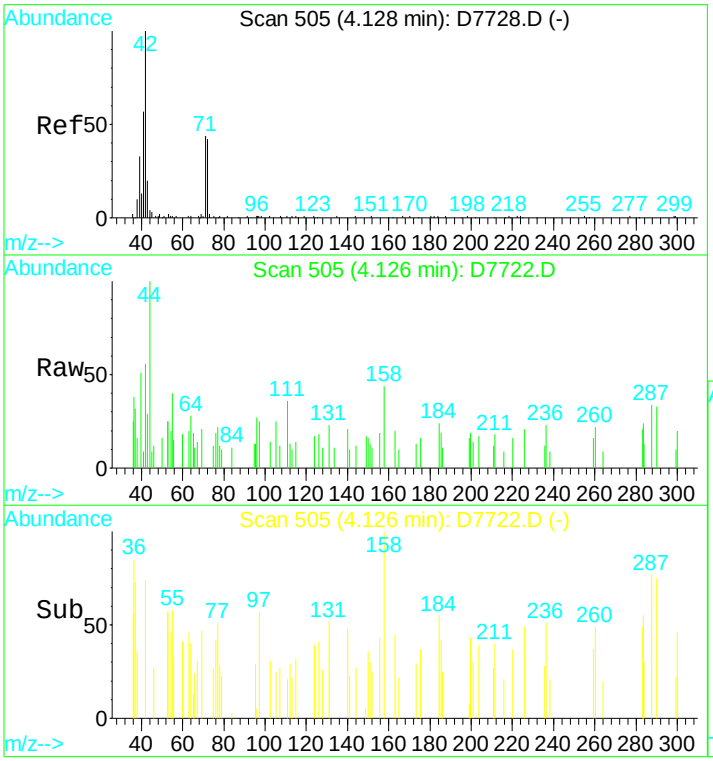


#17
Iodomethane
Concen: 0.36 ug/L m
RT: 2.11 min Scan# 174
Delta R.T. 0.00 min
Lab File: D7722.D
Acq: 24 Aug 2017 9:07 am

Tgt Ion:142 Resp: 1071

Ion	Ratio	Lower	Upper
142	100		
127	68.3	28.6	68.6

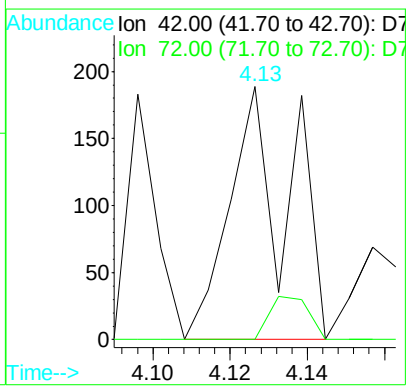




#38
Tetrahydrofuran
Concen: 0.50 ug/L
RT: 4.13 min Scan# 505
Delta R.T. -0.00 min
Lab File: D7722.D
Acq: 24 Aug 2017 9:07 am

Tgt Ion: 42 Resp: 200

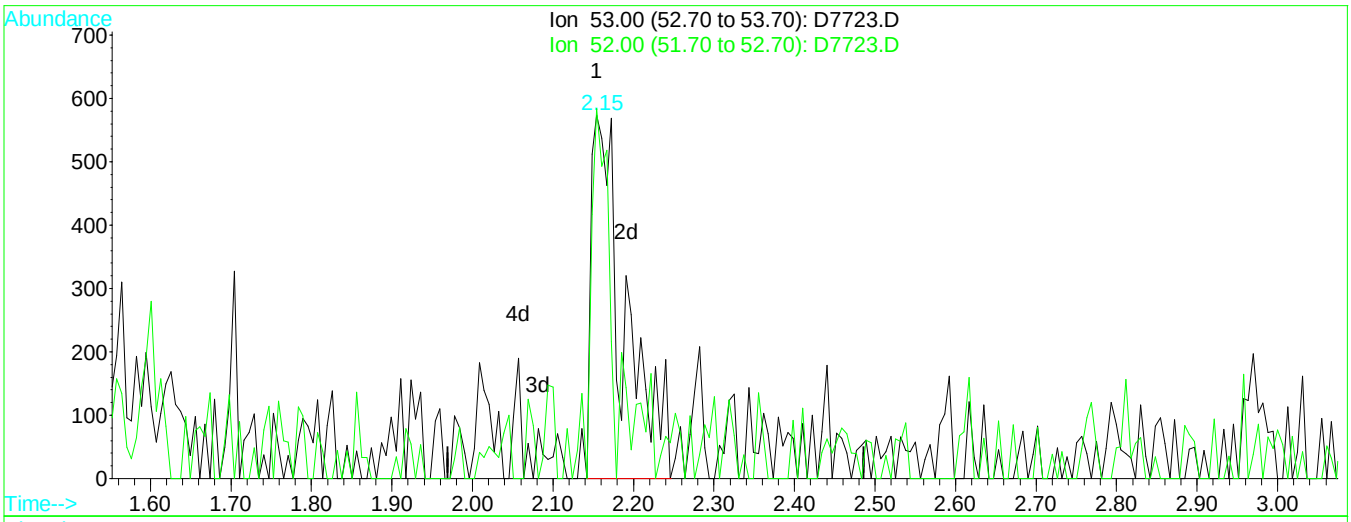
Ion	Ratio	Lower	Upper
42	100		
72	0.0	20.5	60.5#

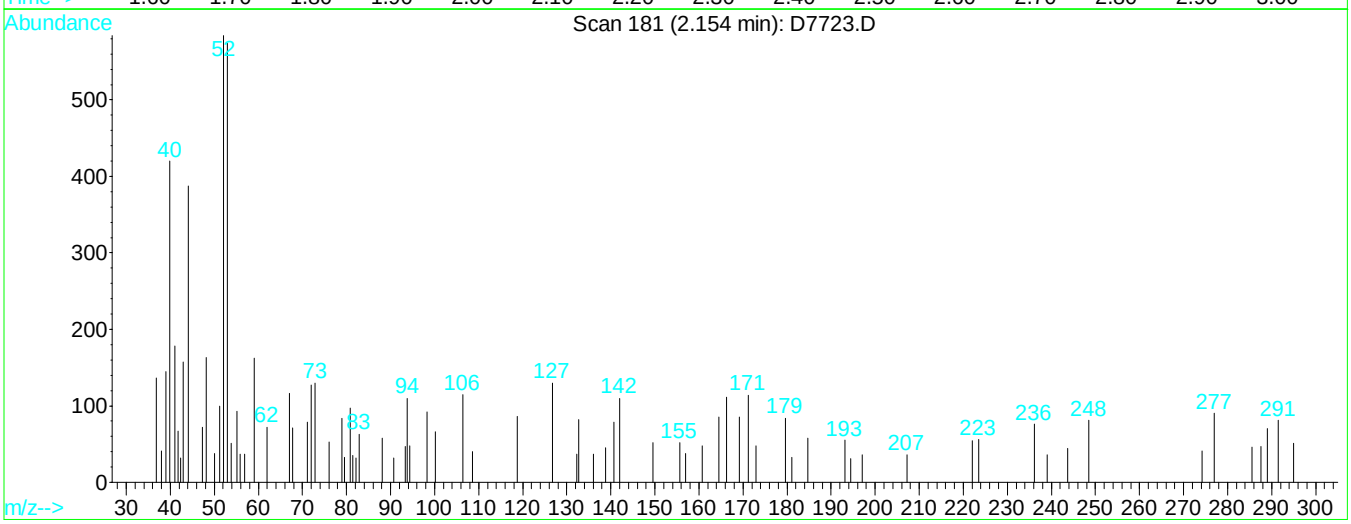


Quantitation Report (Qedit)

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 2.95ug/L m

response 1626

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

Manual Integration:

After

Split Peak.

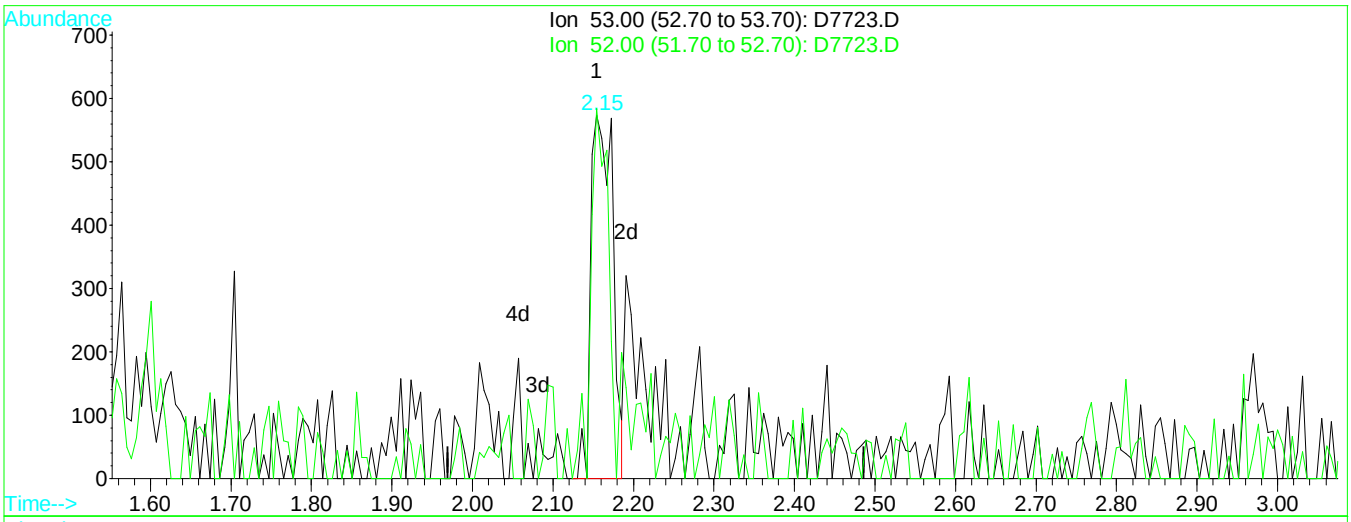
08/25/17

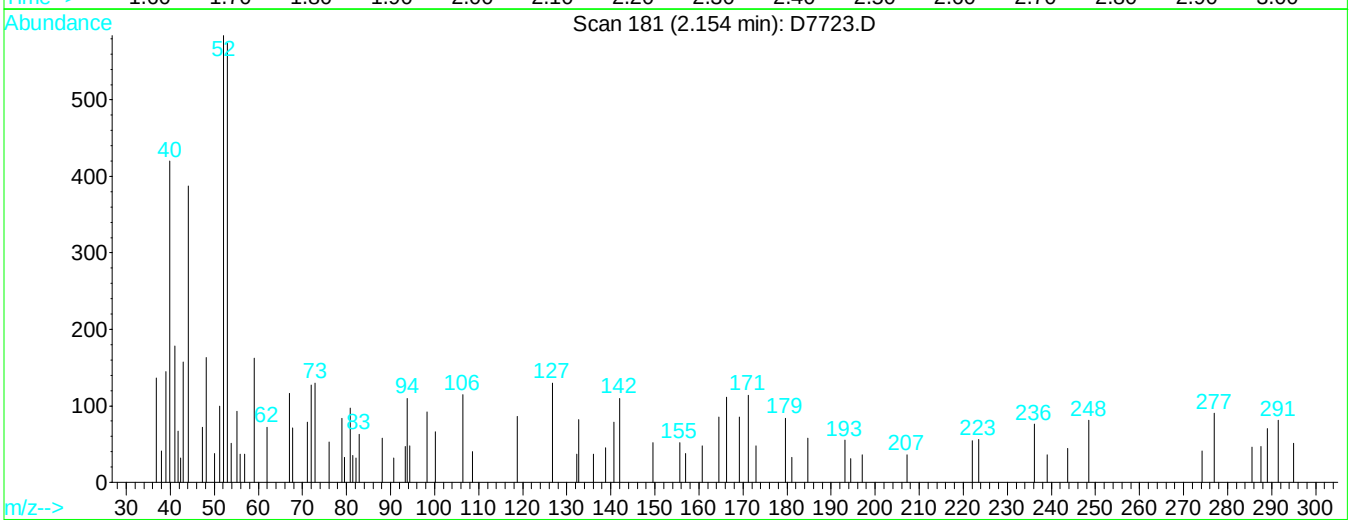
D7723.D W082417.M Fri Aug 25 08:53:35 2017

Quantitation Report (Qedit)

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

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

Manual Integration:

Before

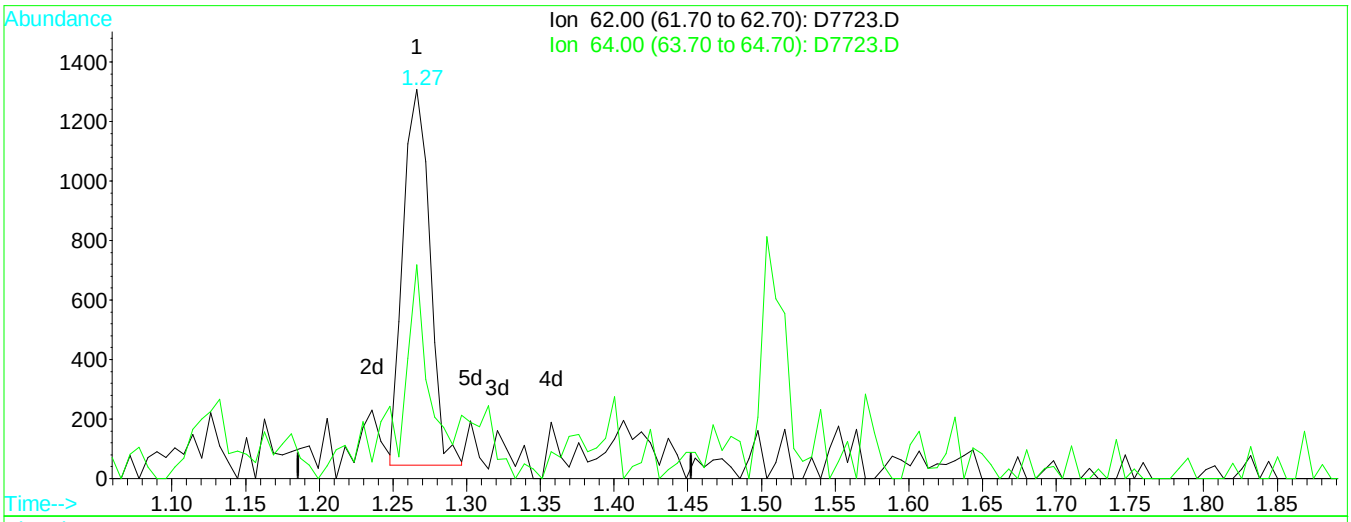
08/25/17

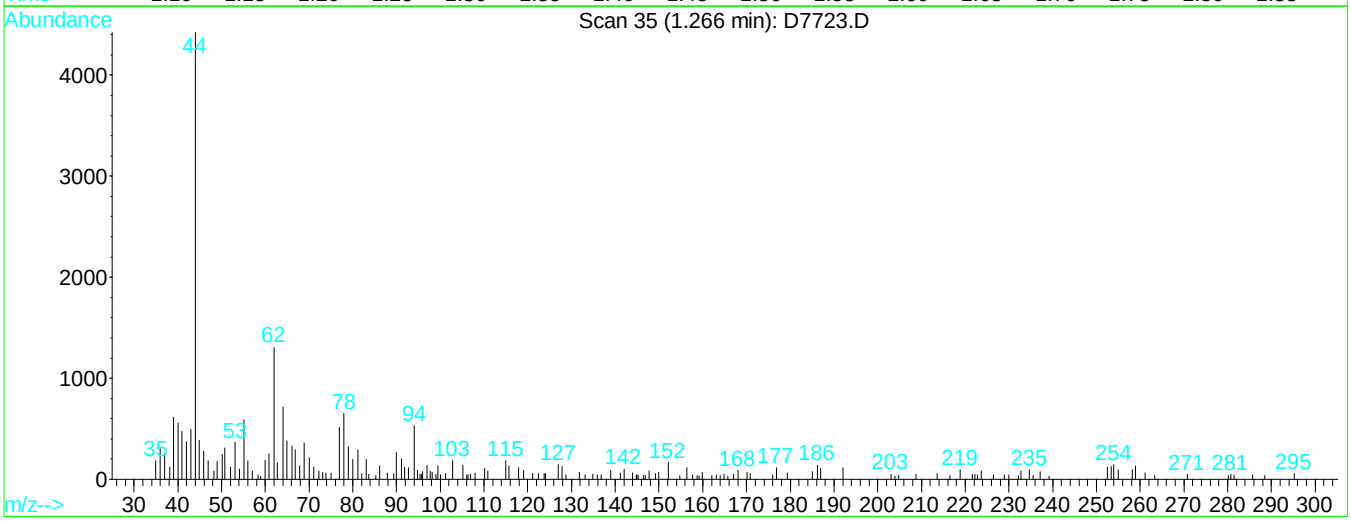
D7723.D W082417.M Fri Aug 25 08:53:29 2017

1st DL 08/25/17
2nd FW 08/26/17

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)

1.27min 0.49ug/L m

response 1595

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

Manual Integration:

After

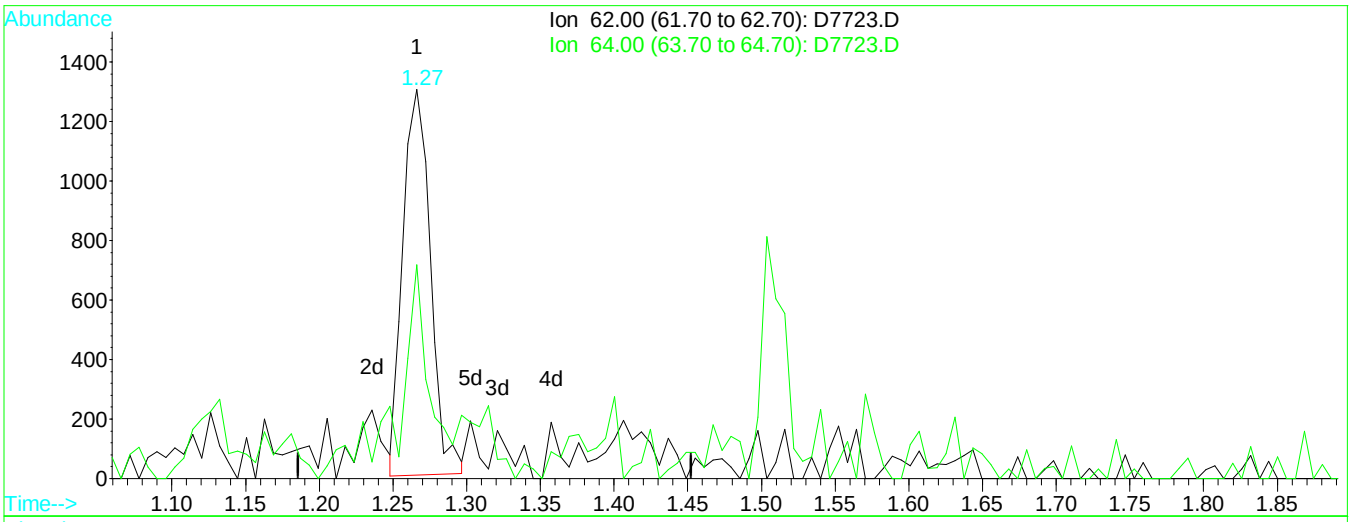
Poor integration.

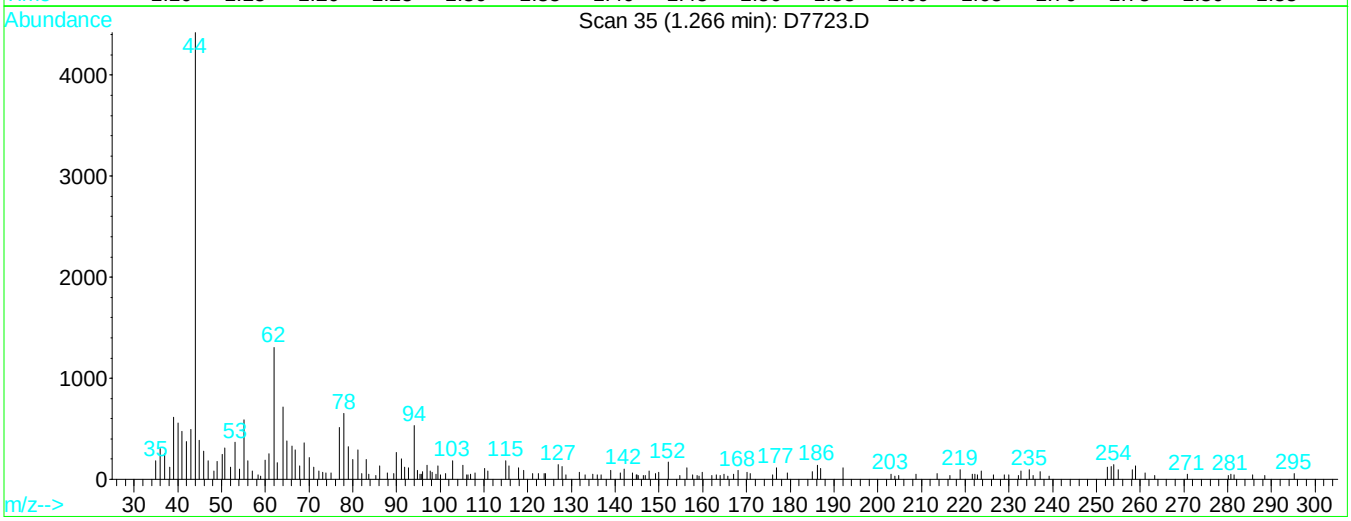
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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)

1.27min 0.52ug/L

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

Manual Integration:

Before

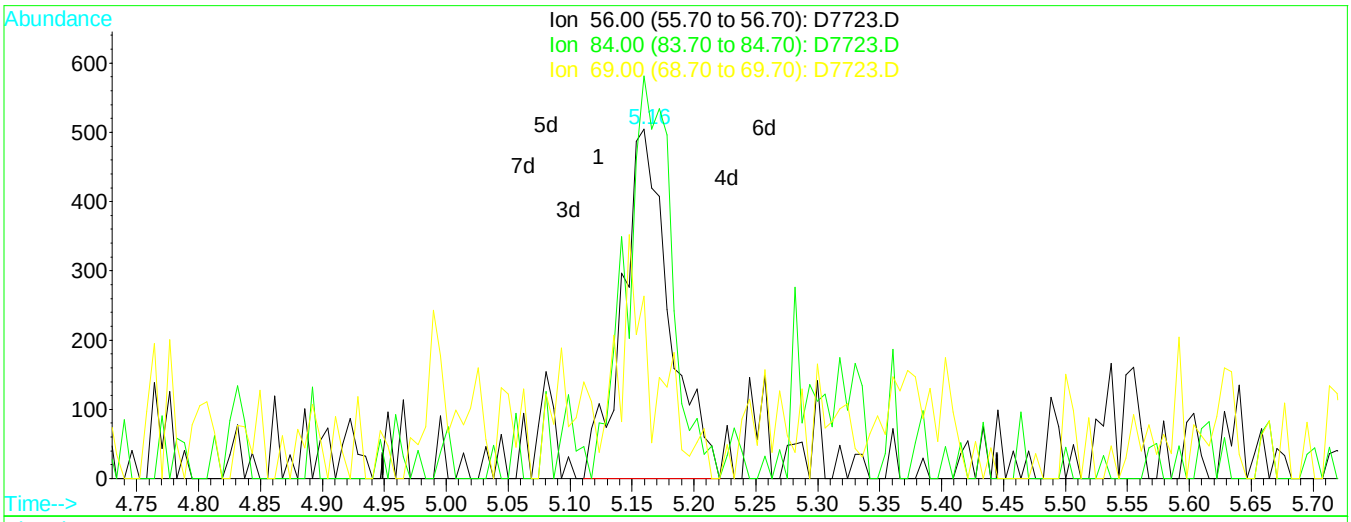
08/25/17

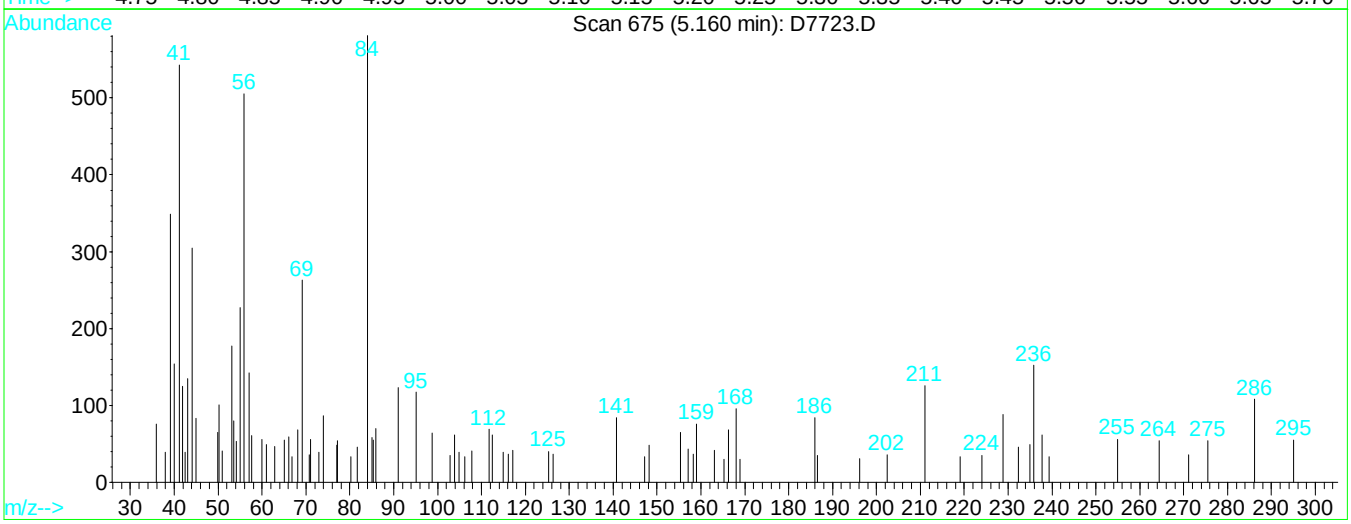
D7723.D W082417.M Fri Aug 25 09:01:56 2017

Quantitation Report (Qedit)

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)

5.16min 0.52ug/L m

response 1329

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

Manual Integration:

After

Split Peak.

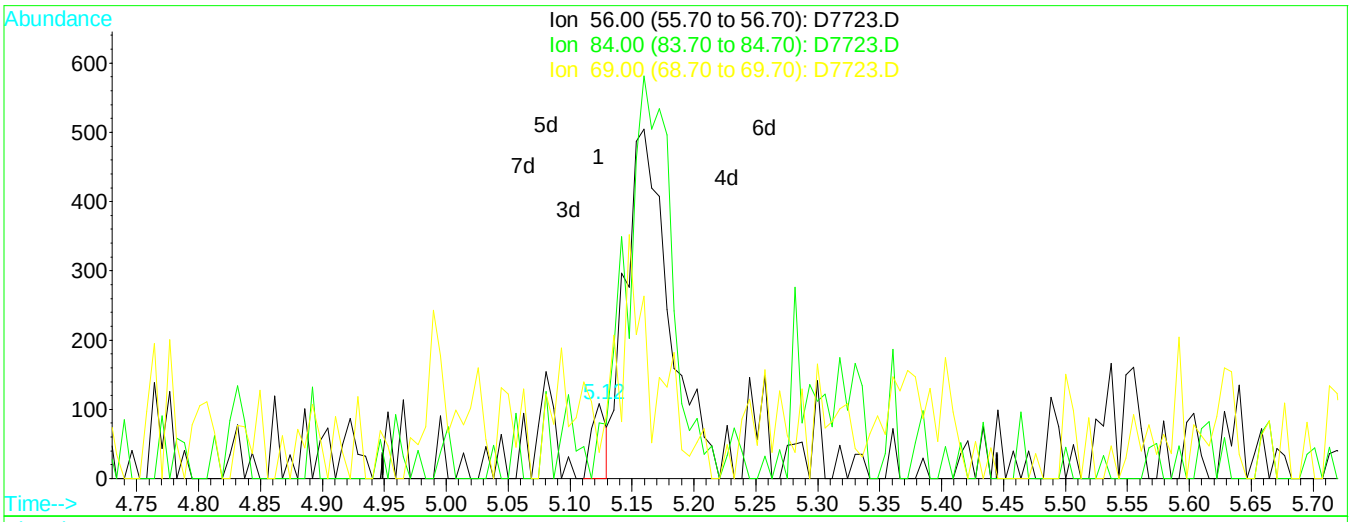
08/25/17

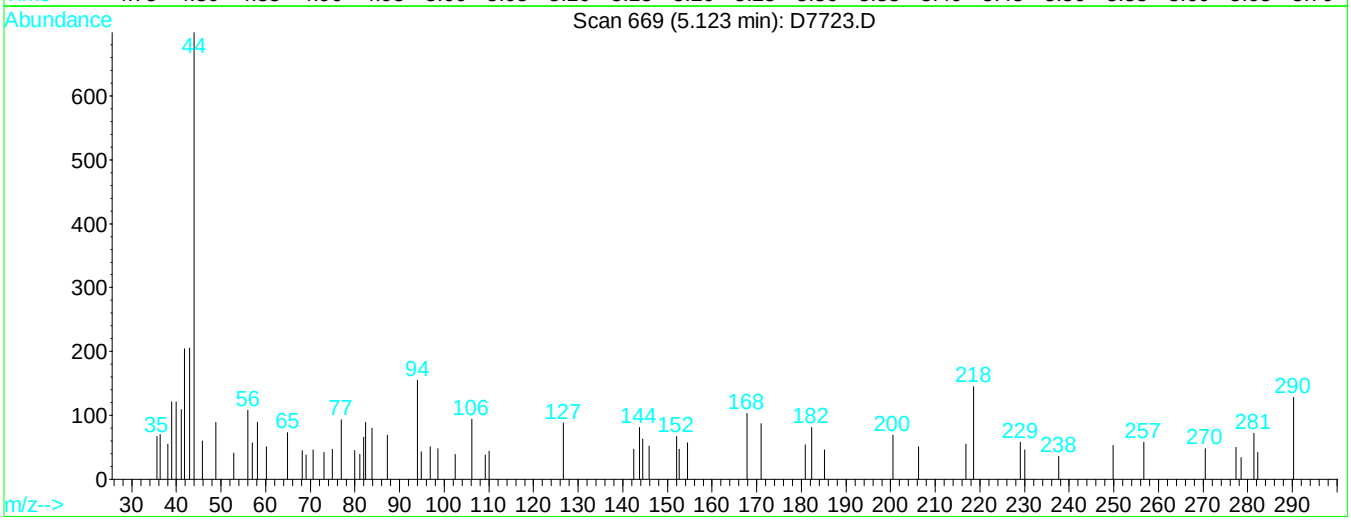
D7723.D W082417.M Fri Aug 25 09:07:58 2017

Quantitation Report (Qedit)

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)

5.12min 0.04ug/L

response 93

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

Manual Integration:

Before

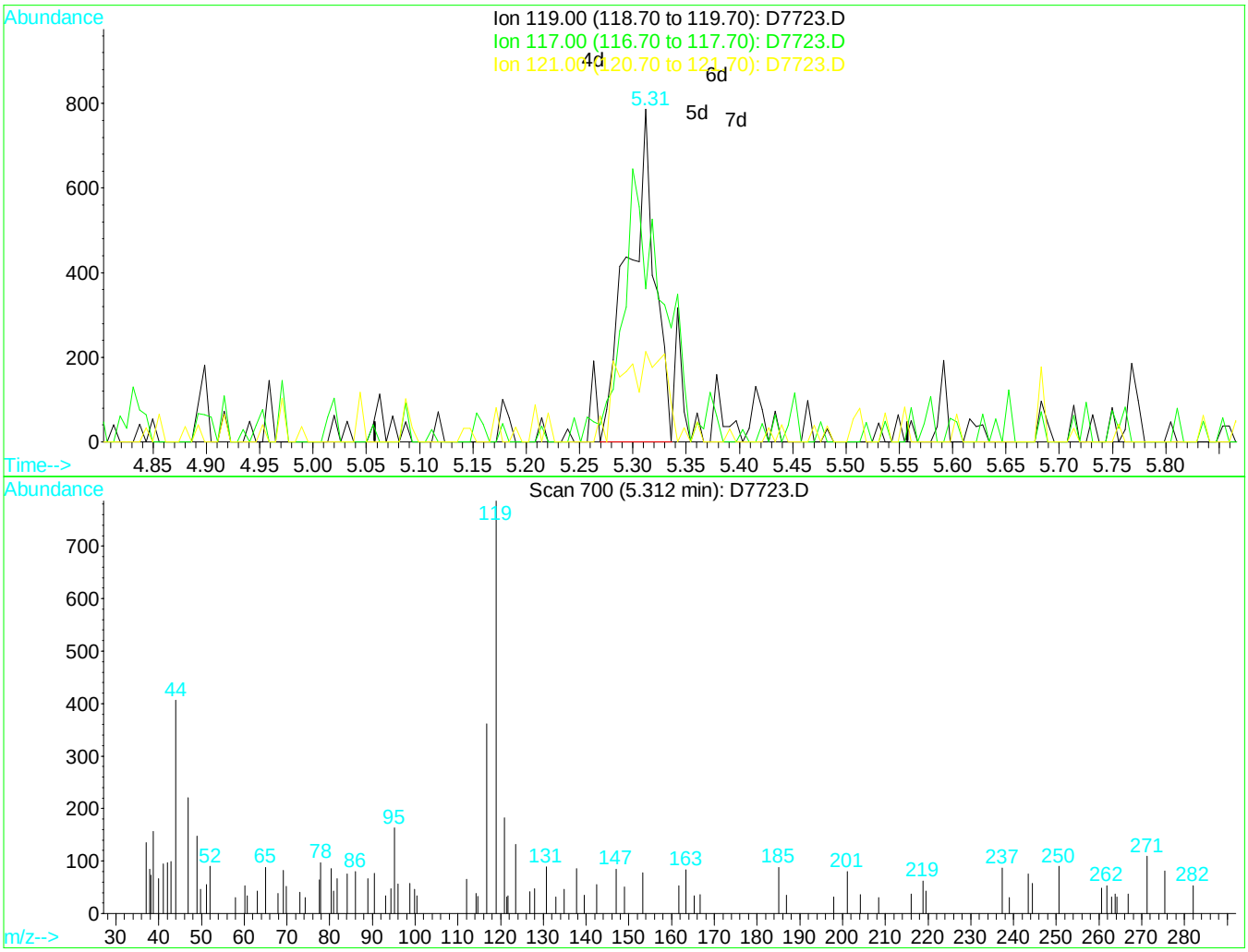
08/25/17

D7723.D W082417.M Fri Aug 25 09:07:47 2017

1st DL 08/25/17
2nd FW 08/26/17

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

(48) Carbontetrachloride (P)

5.31min 0.49ug/L m

response 1363

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

Manual Integration:

After

Split Peak.

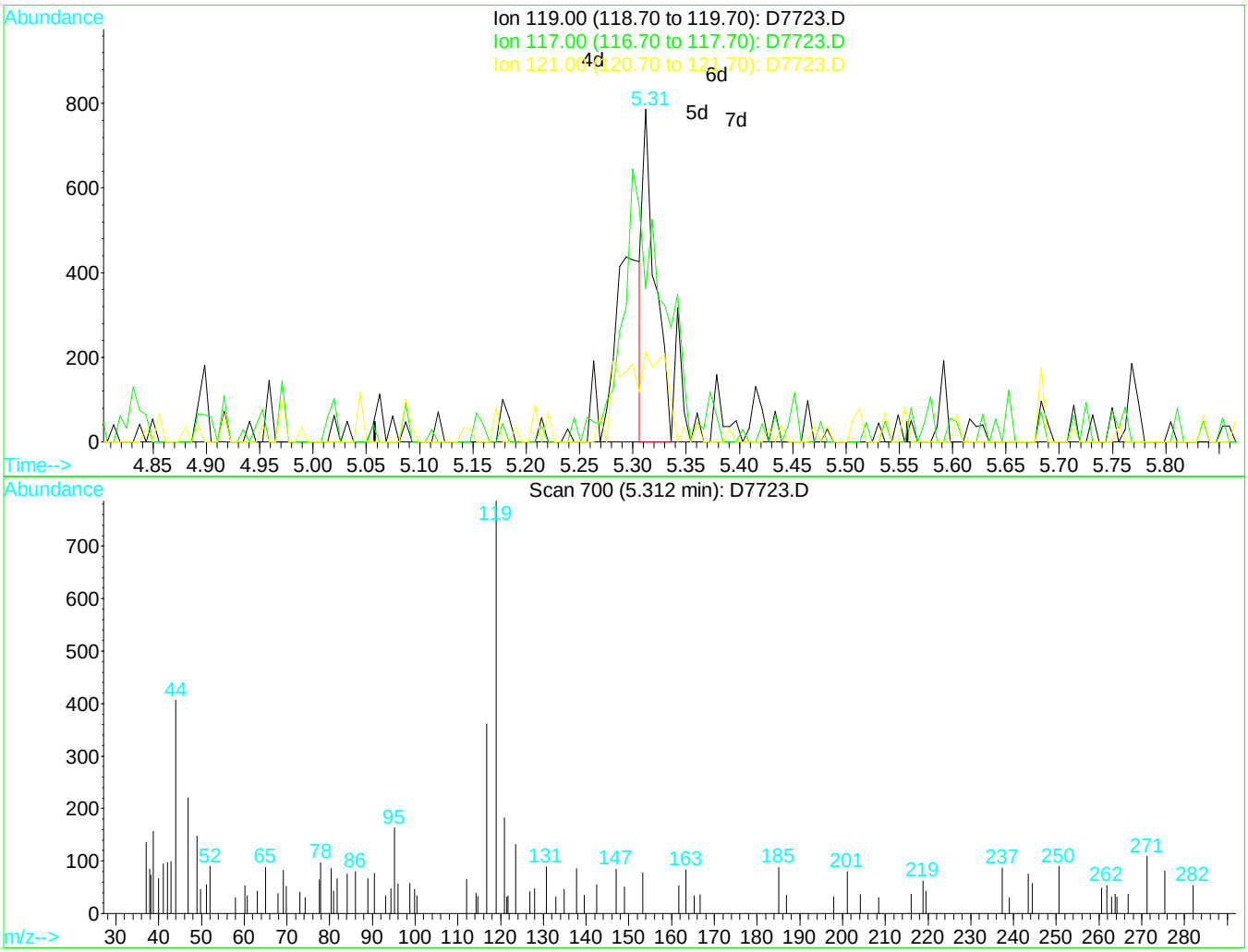
08/25/17

D7723.D W082417.M Fri Aug 25 09:08:24 2017

1st DL 08/25/17
2nd FW 08/26/17

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)

5.31min 0.23ug/L

response 640

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

Manual Integration:

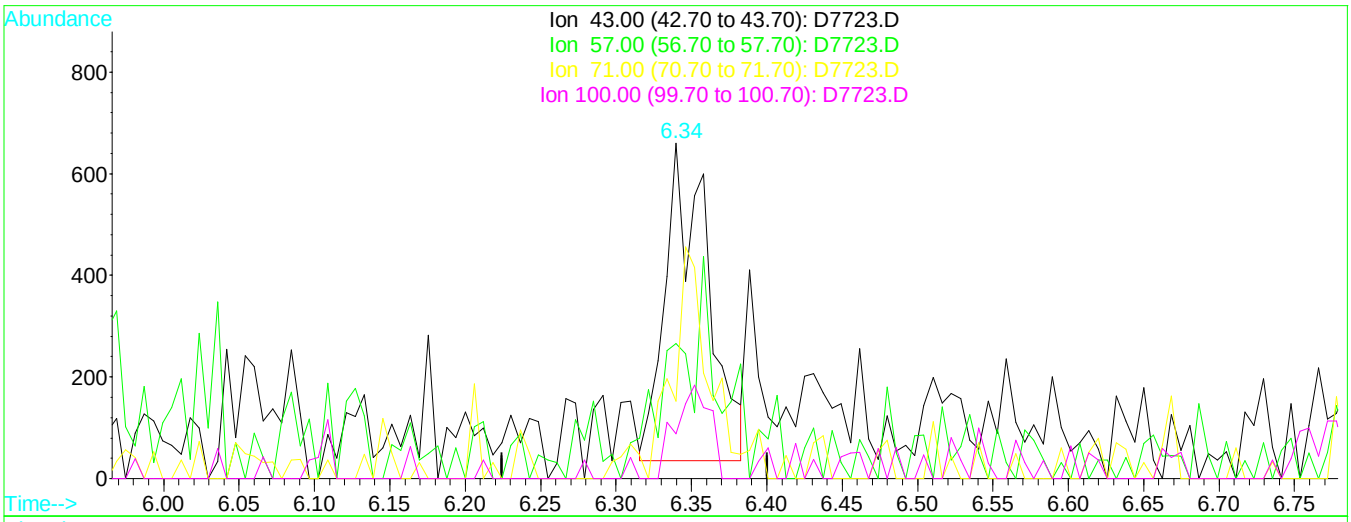
Before

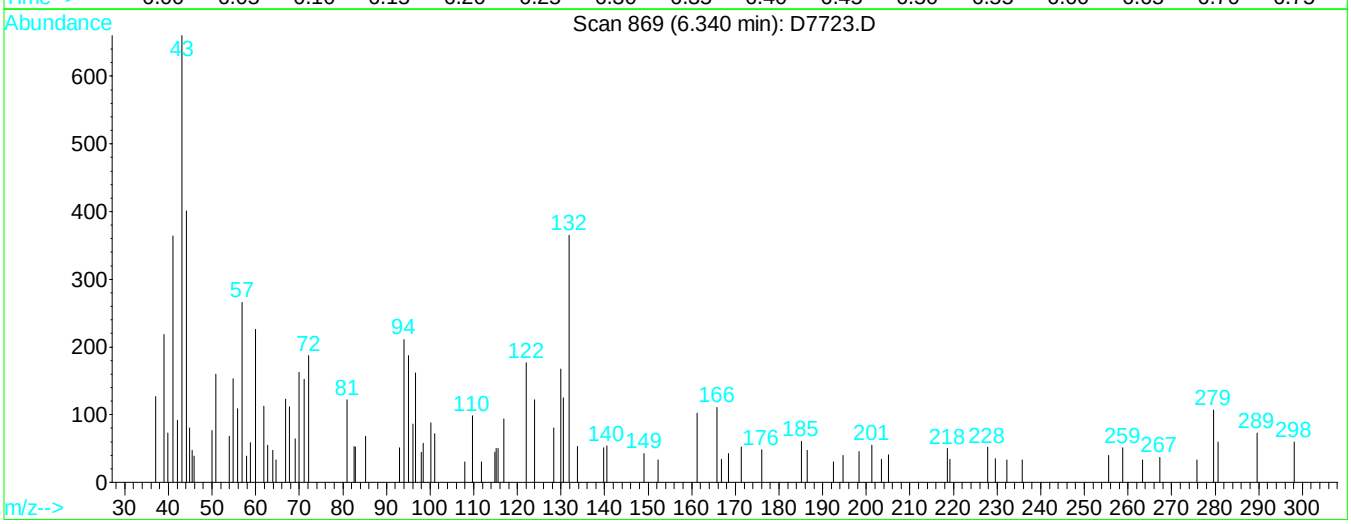
08/25/17

Quantitation Report (Qedit)

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

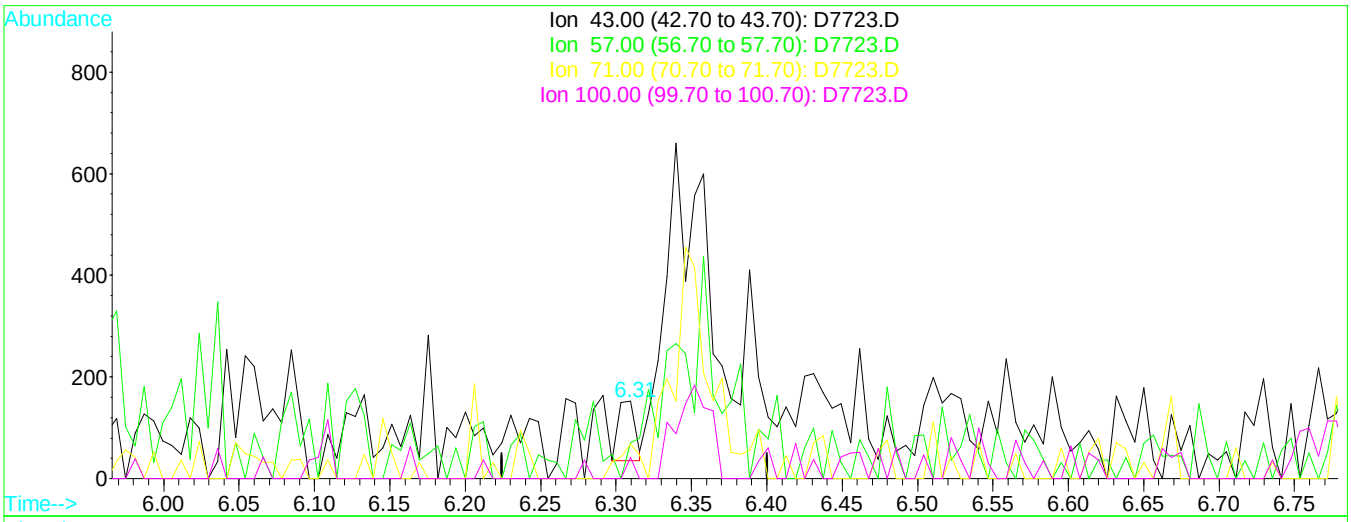
Peak not found.

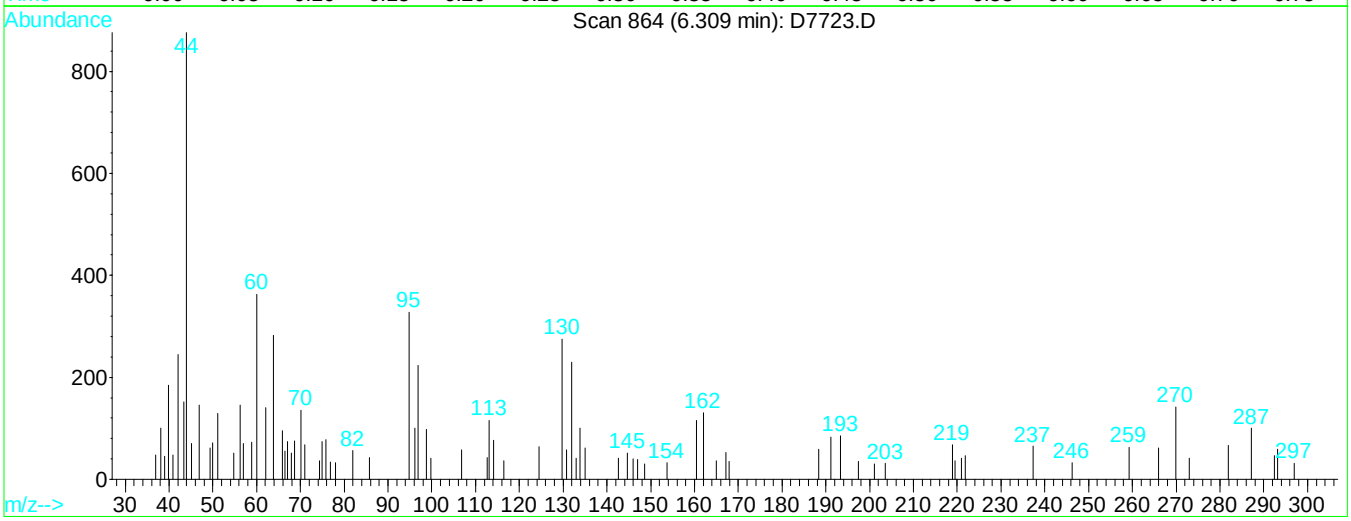
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

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

Manual Integration:

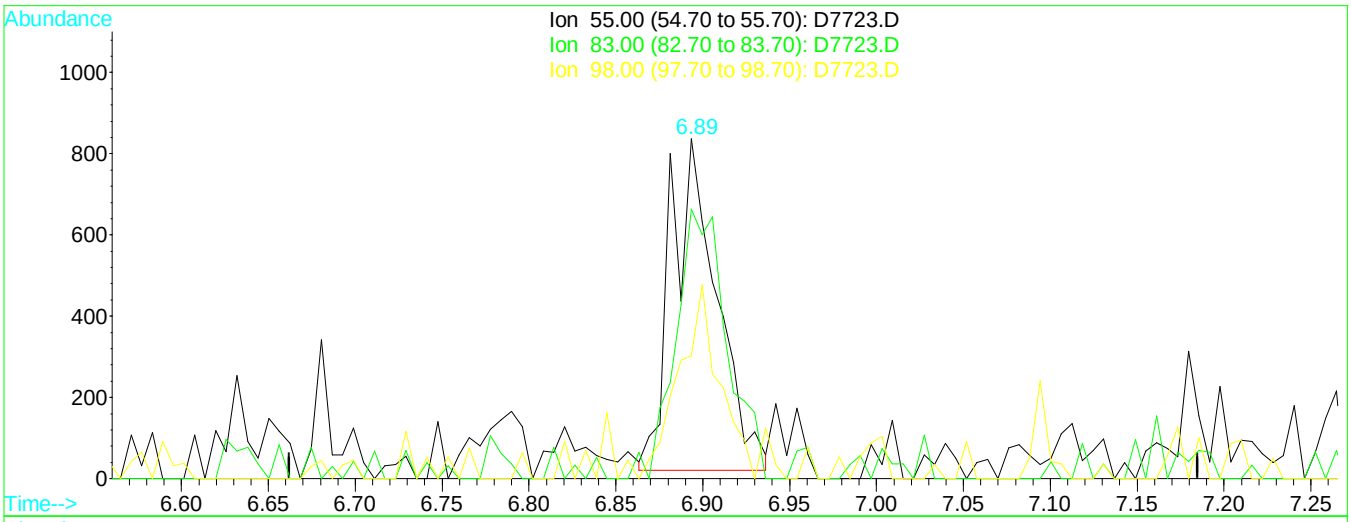
Before

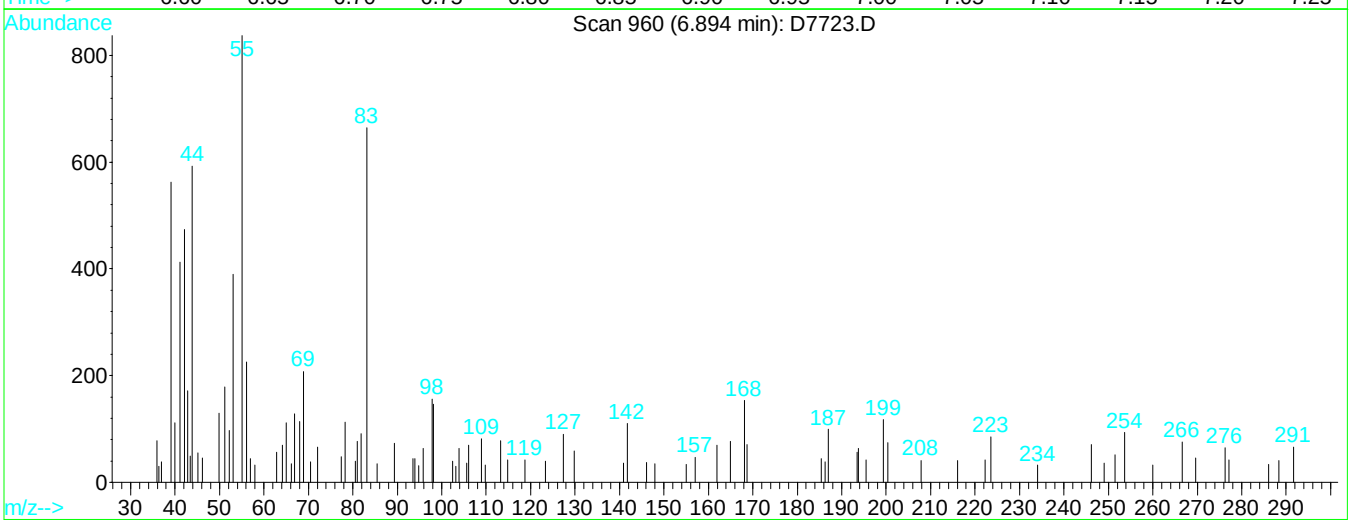
08/25/17

Quantitation Report (Qedit)

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)

6.89min 0.71ug/L m

response 1507

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

Manual Integration:

After

Split Peak.

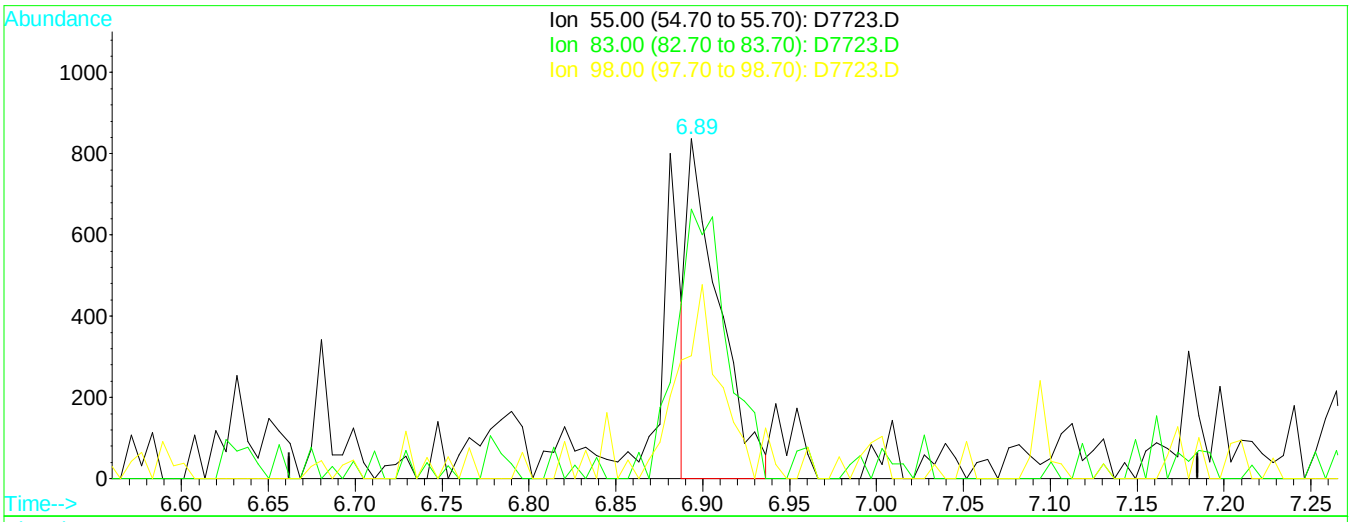
08/25/17

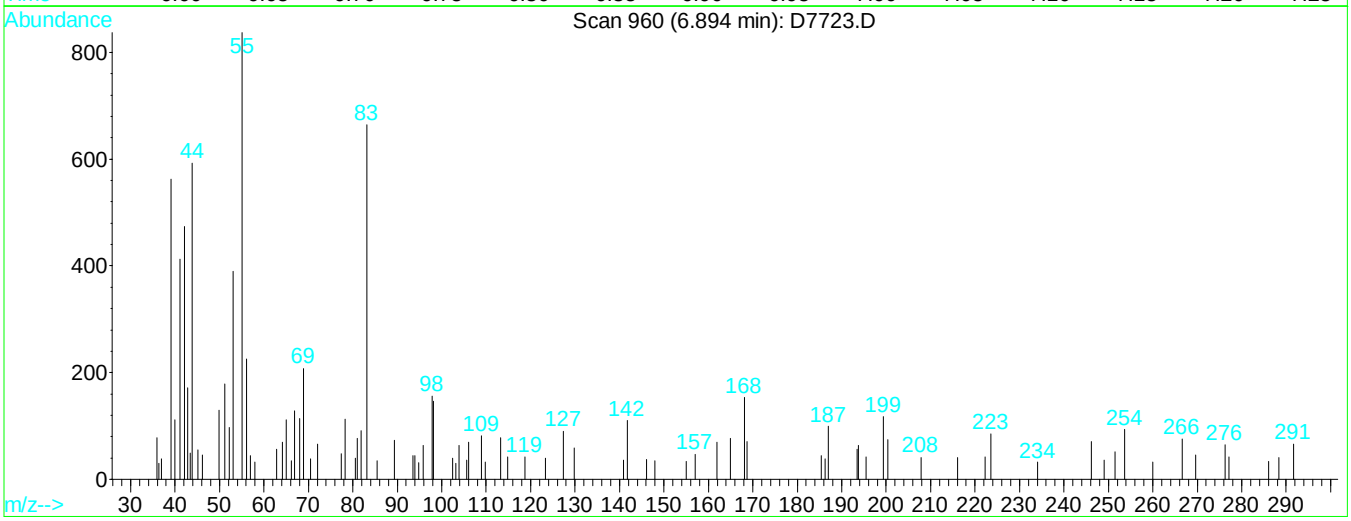
D7723.D W082417.M Fri Aug 25 09:10:22 2017

Quantitation Report (Qedit)

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)

6.89min 0.50ug/L

response 1057

Ion	Exp%	Act%
55.00	100	100
83.00	134.80	127.34
98.00	62.30	73.32
0.00	0.00	0.00

Manual Integration:

Before

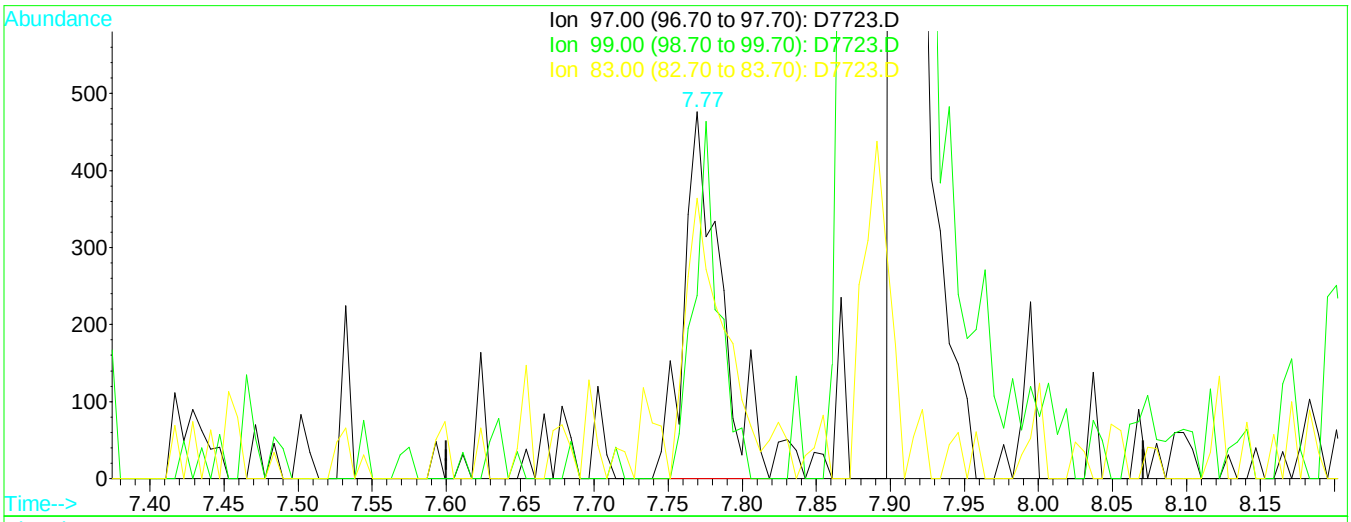
08/25/17

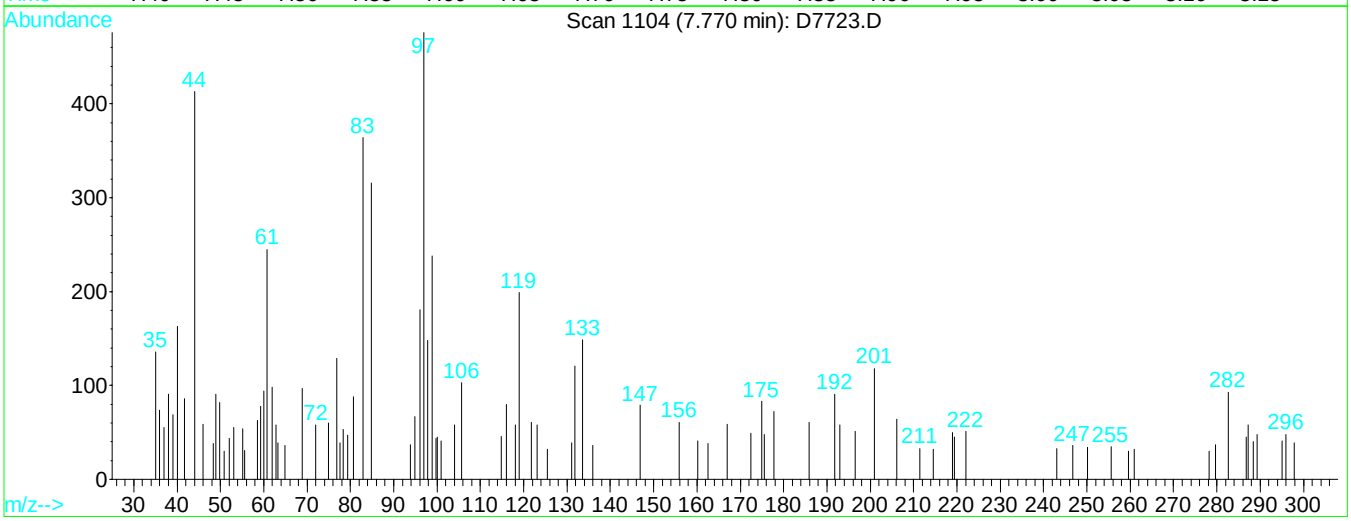
D7723.D W082417.M Fri Aug 25 09:10:10 2017

1st DL 08/25/17
2nd FW 08/26/17

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

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

7.77min 0.49ug/L m

response 833

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

Manual Integration:

After

Split Peak.

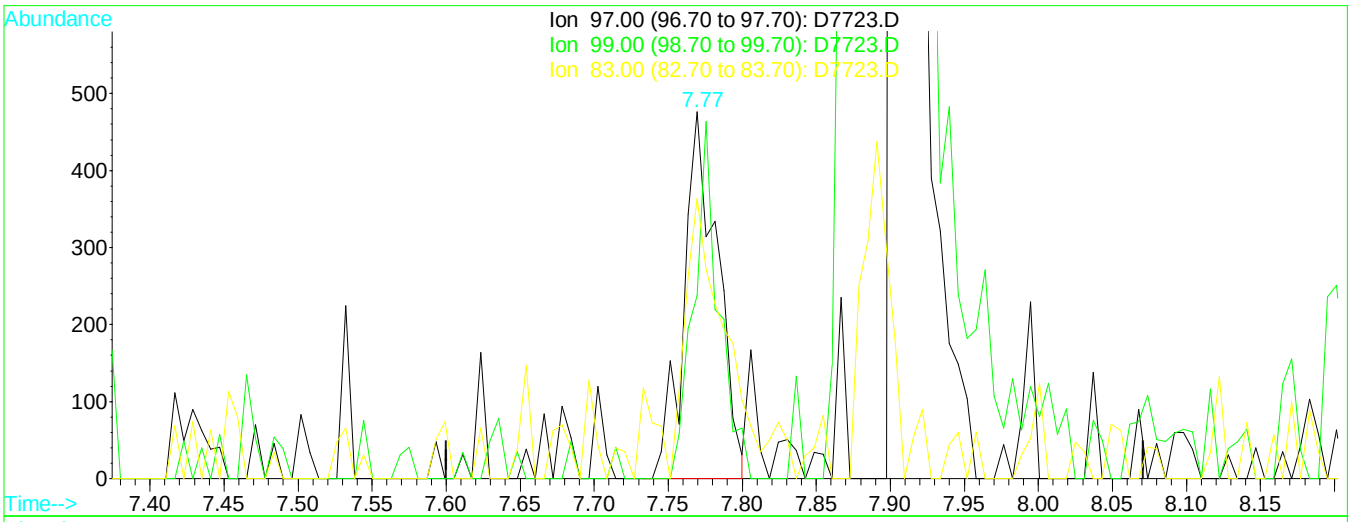
08/25/17

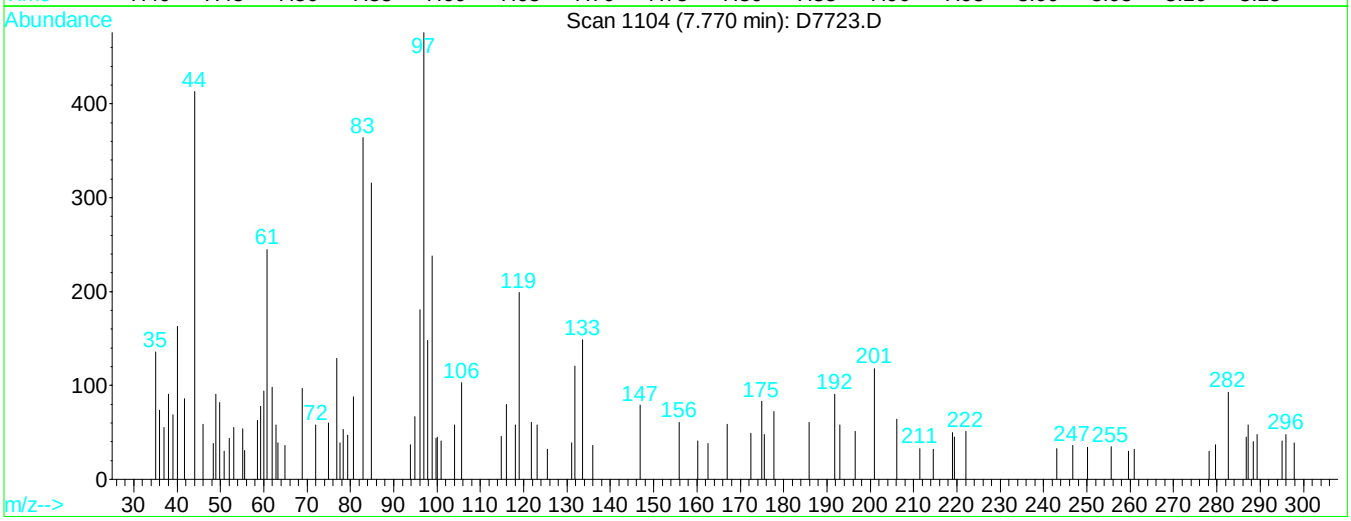
D7723.D W082417.M Fri Aug 25 09:11:39 2017

1st DL 08/25/17
2nd FW 08/26/17

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)

7.77min 0.44ug/L

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

Manual Integration:

Before

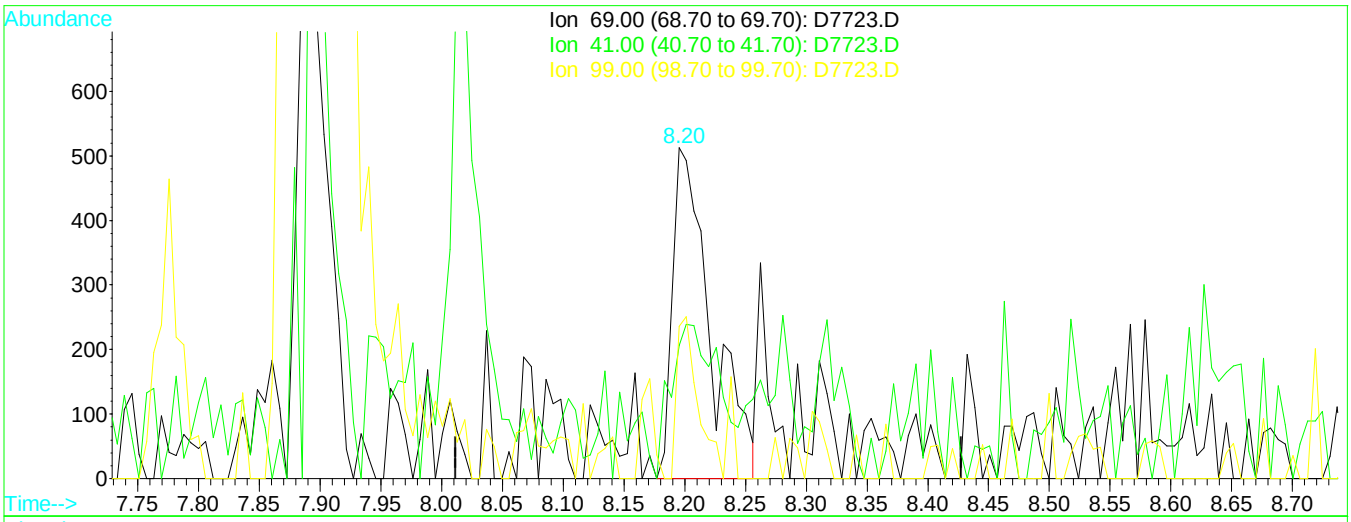
08/25/17

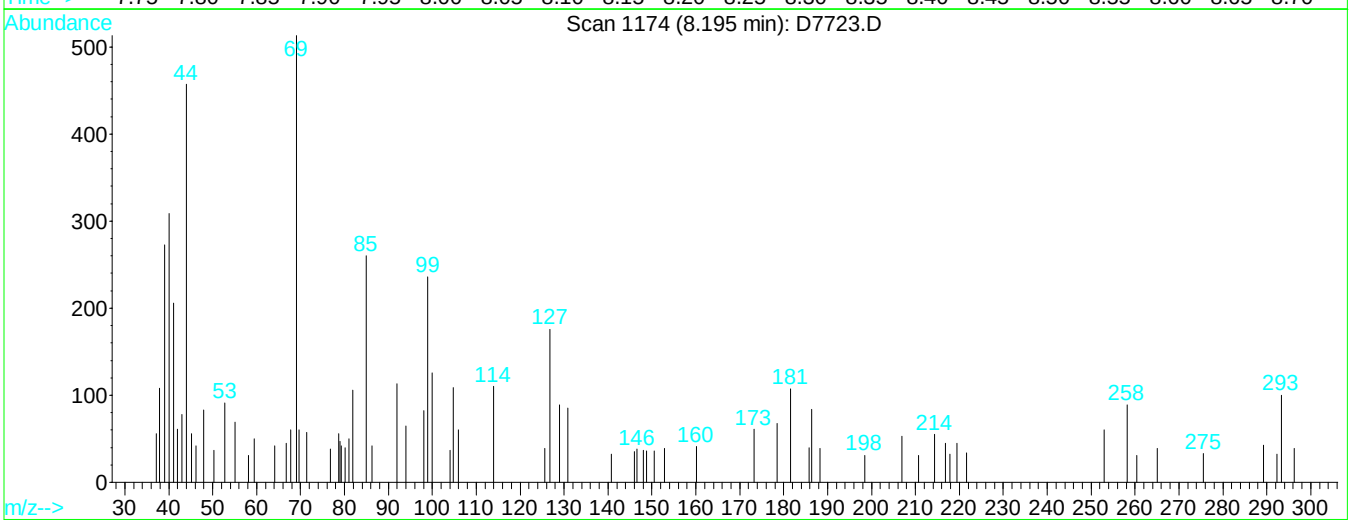
D7723.D W082417.M Fri Aug 25 09:11:34 2017

1st DL 08/25/17
2nd FW 08/26/17

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

8.20min 0.51ug/L m

response 1127

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

Manual Integration:

After

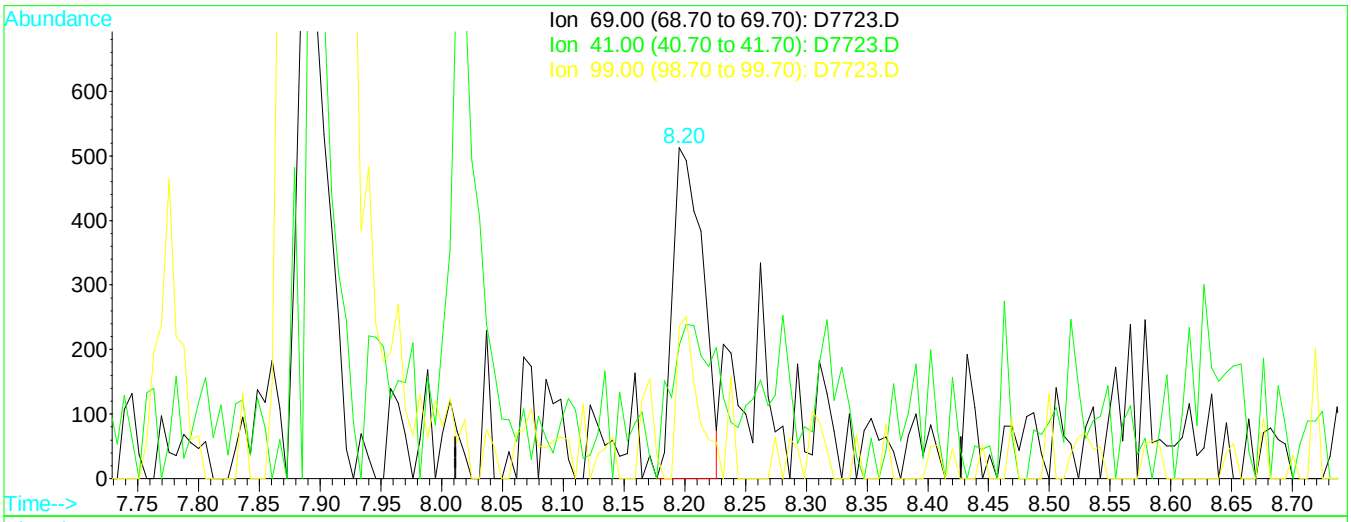
Split Peak.

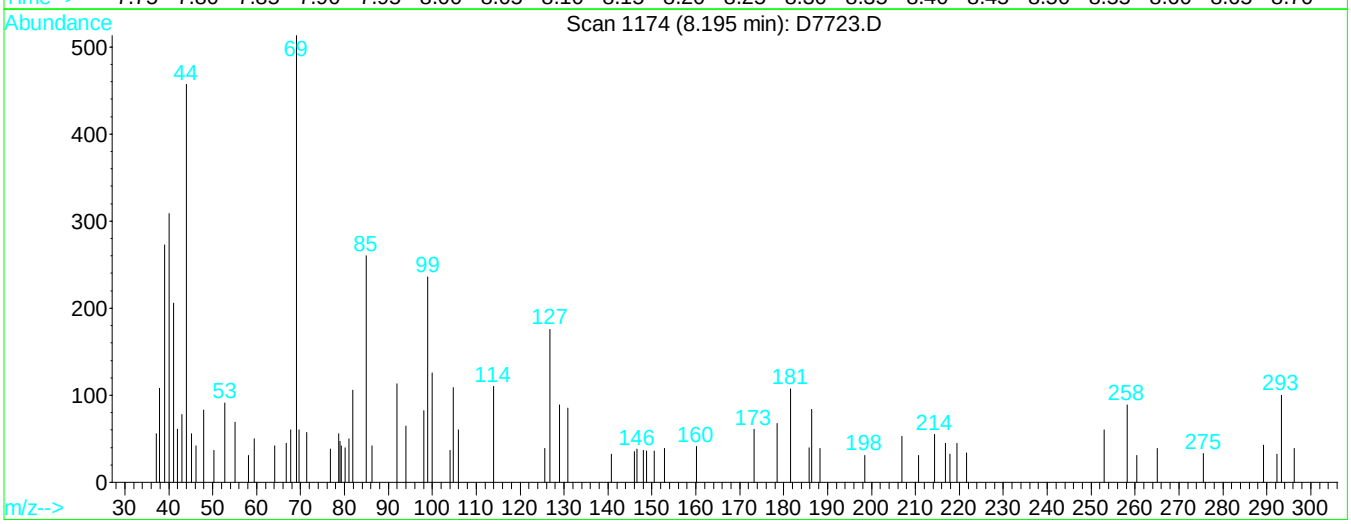
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

8.20min 0.40ug/L

response 883

Ion	Exp%	Act%
69.00	100	100
41.00	76.30	35.95#
99.00	24.30	41.19
0.00	0.00	0.00

Manual Integration:

Before

08/25/17

1st DL 08/25/17
2nd FJ 08/26/17

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 9:15 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) SURR3,Toluene-d8	7.89	98	389115	55.52	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.04%				
86) SURR2,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-Diclethene	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-Diclethane	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

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

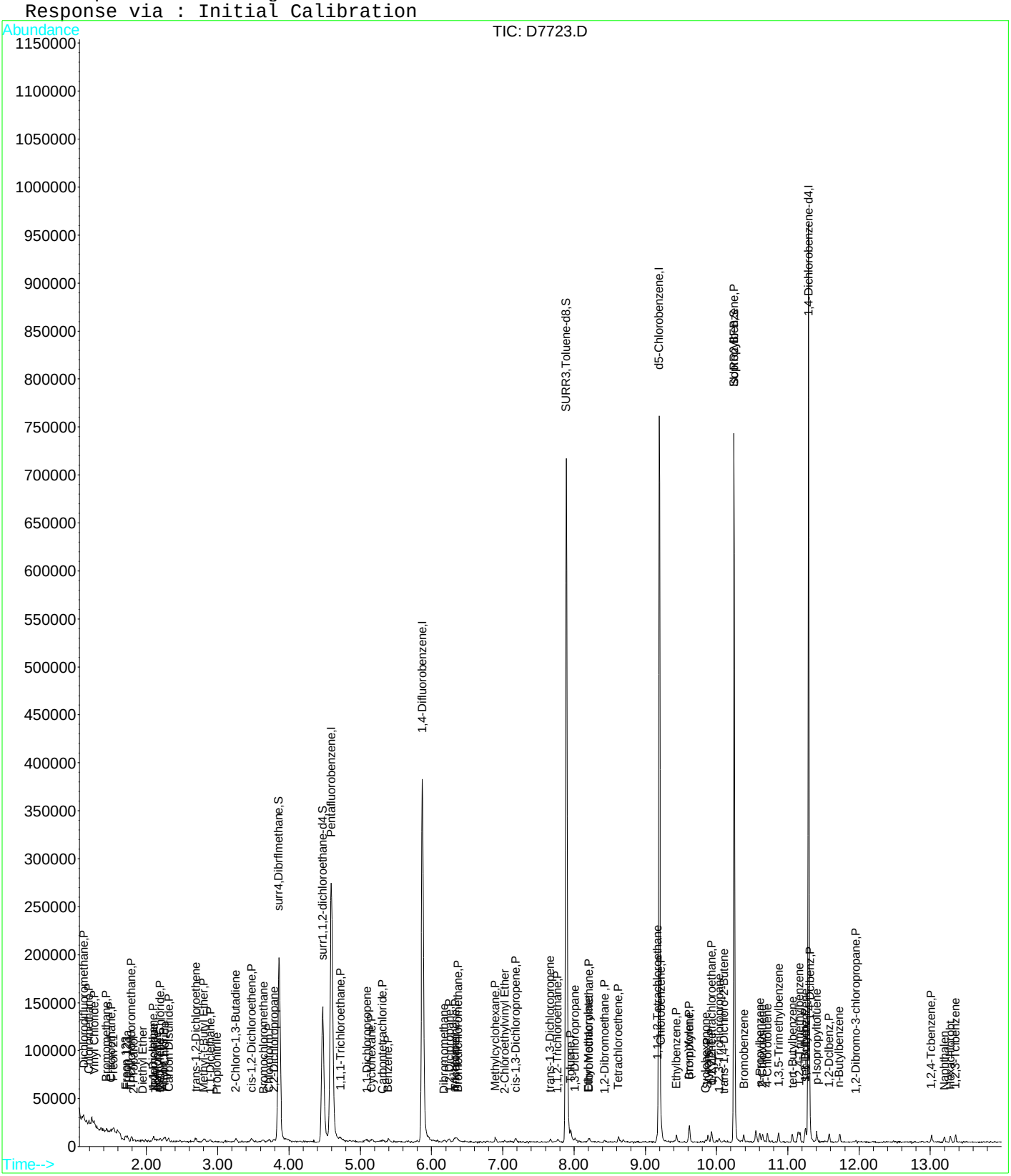
Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Thu Aug 24 17:40:01 2017
Response via : Initial Calibration
DataAcq Meth : W082417

	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

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

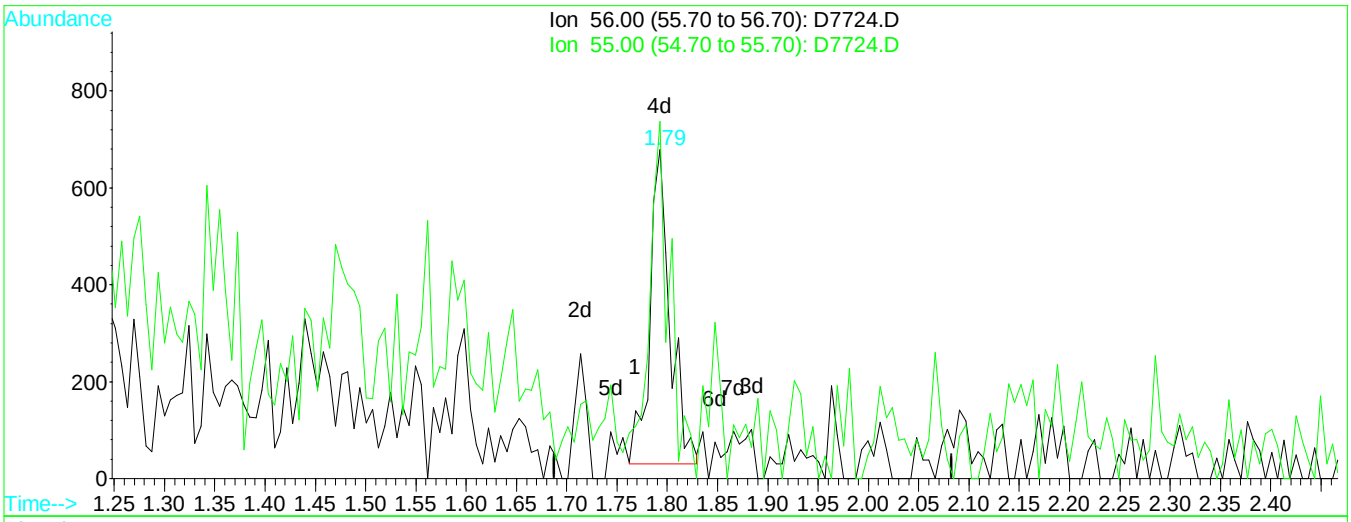
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 08:54:47 2017
Response via : Initial Calibration

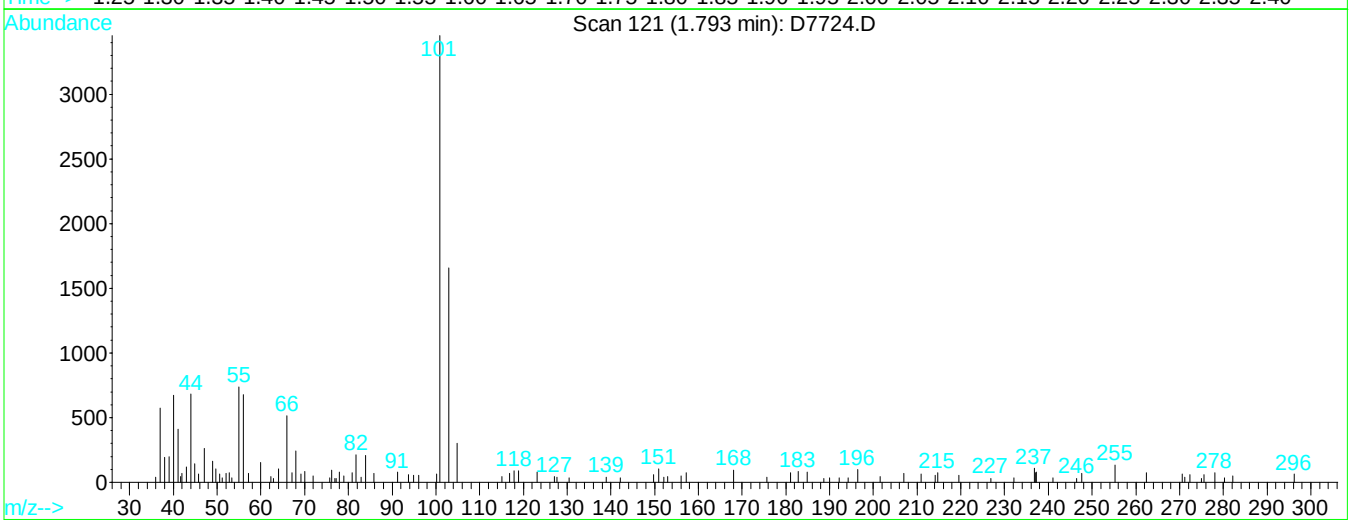


Quantitation Report (Qedit)

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

1.79min 4.29ug/L m

response 906

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

Manual Integration:

After

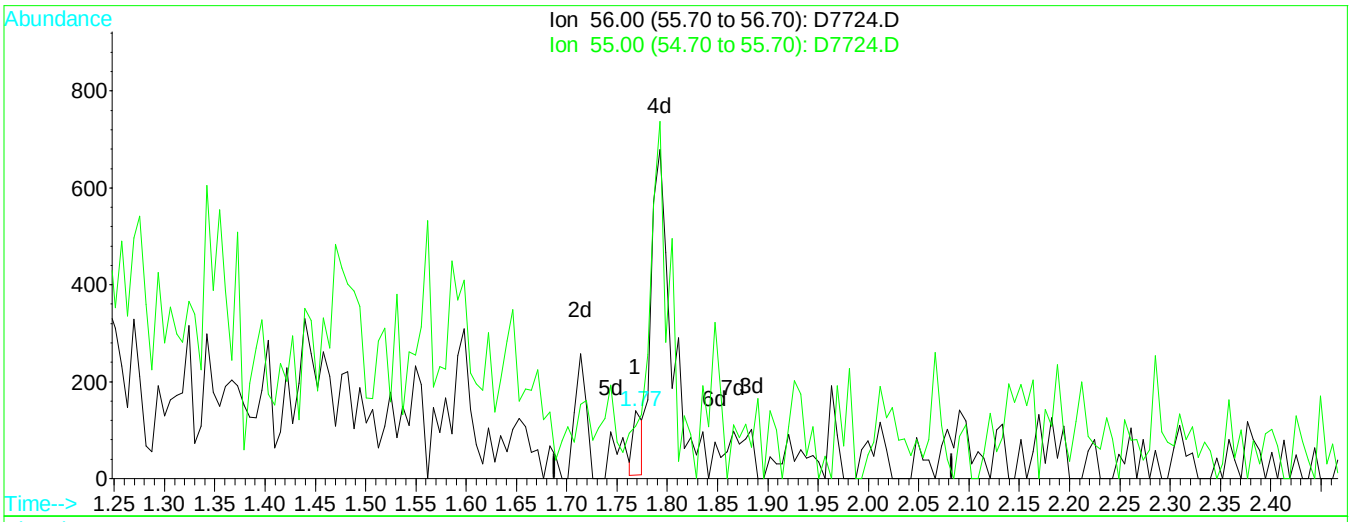
Split Peak.

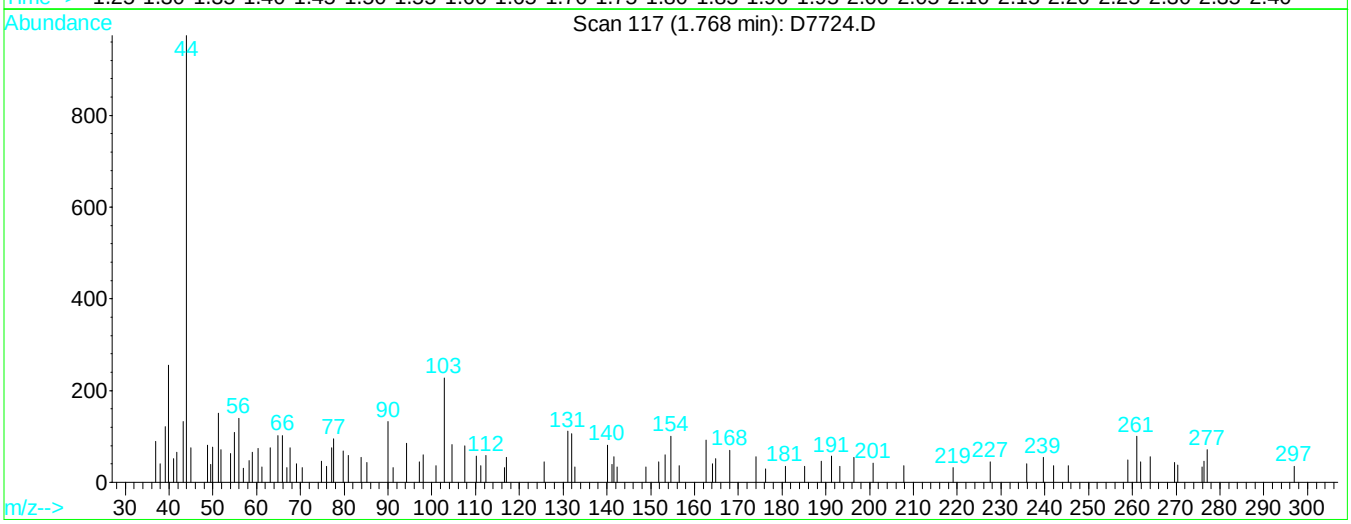
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

1.77min 0.42ug/L

response 89

Ion	Exp%	Act%
56.00	100	100
55.00	69.40	77.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

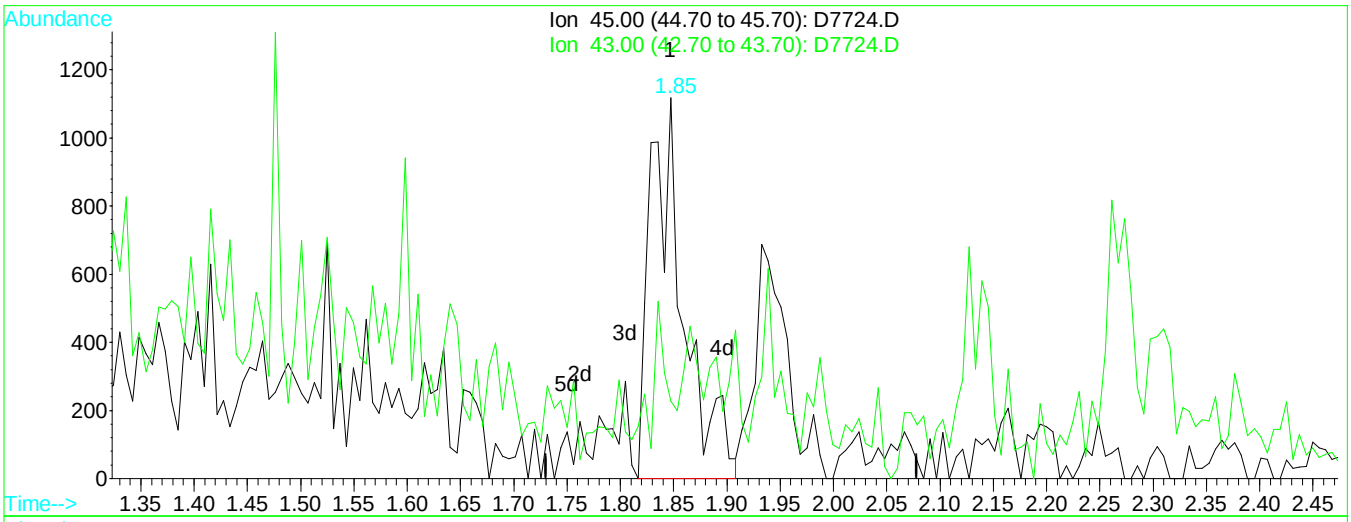
08/25/17

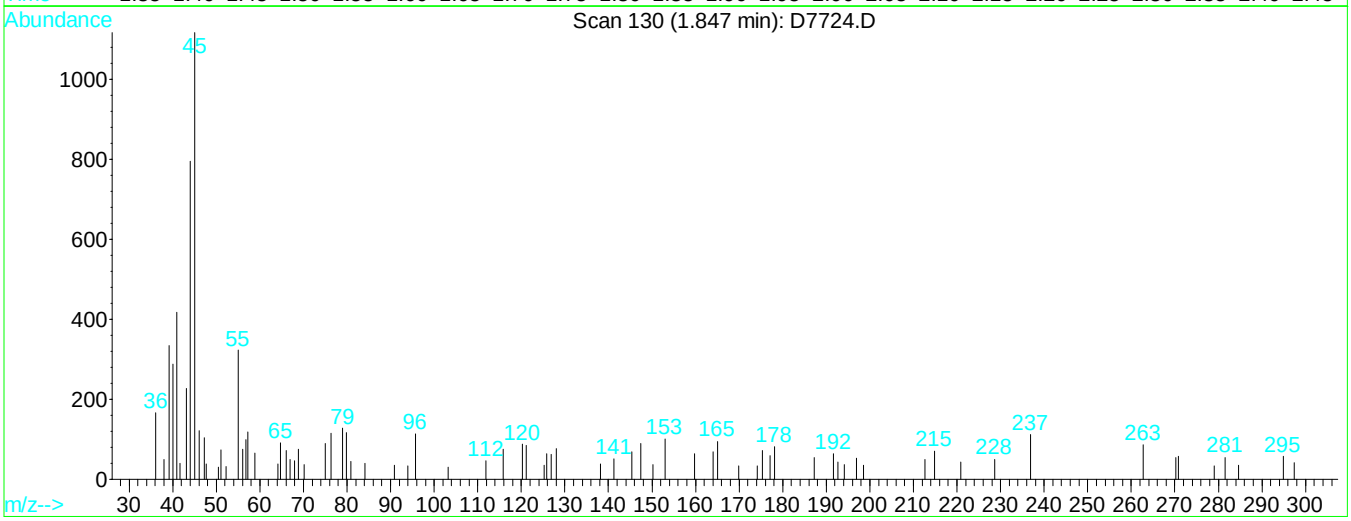
D7724.D W082417.M Fri Aug 25 09:42:40 2017

Quantitation Report (Qedit)

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

1.85min 24.67ug/L m

response 2460

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

Manual Integration:

After

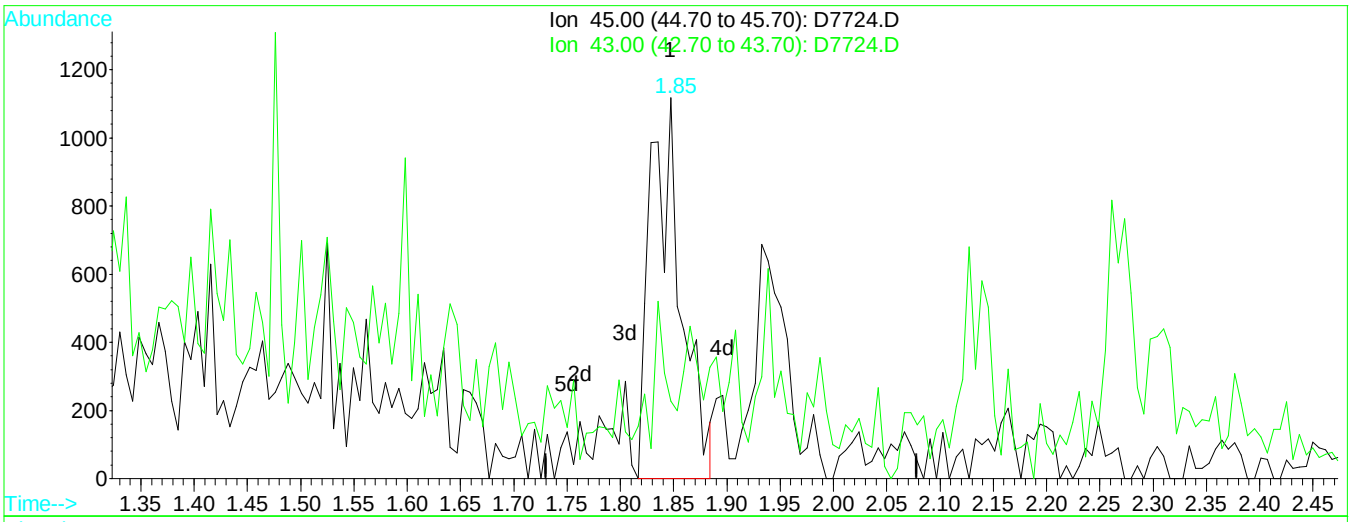
Split Peak.

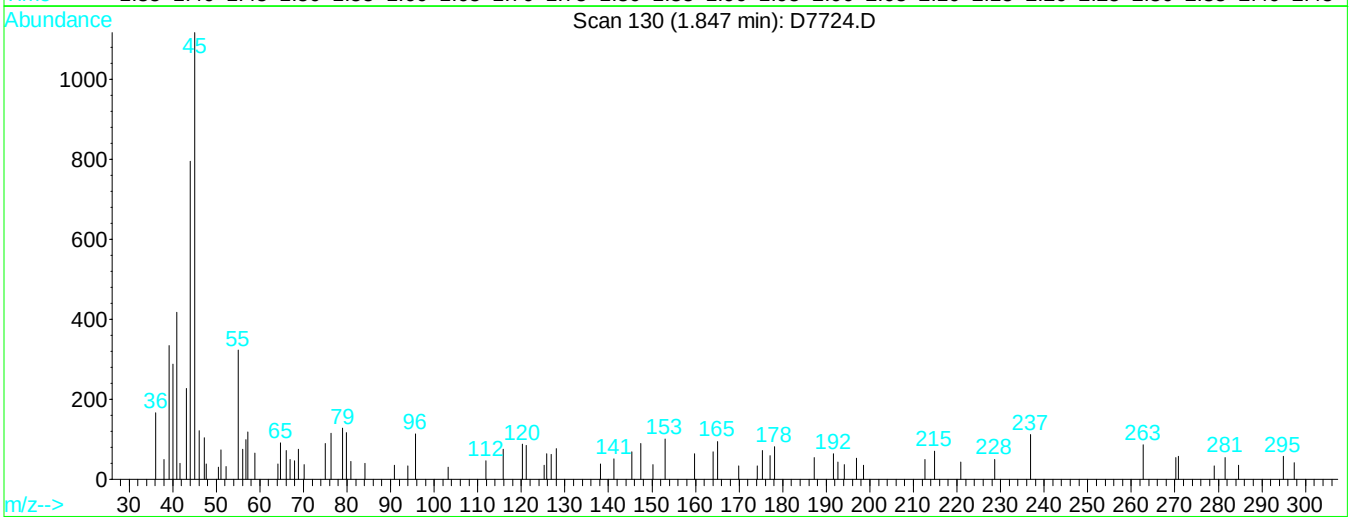
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

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

Manual Integration:

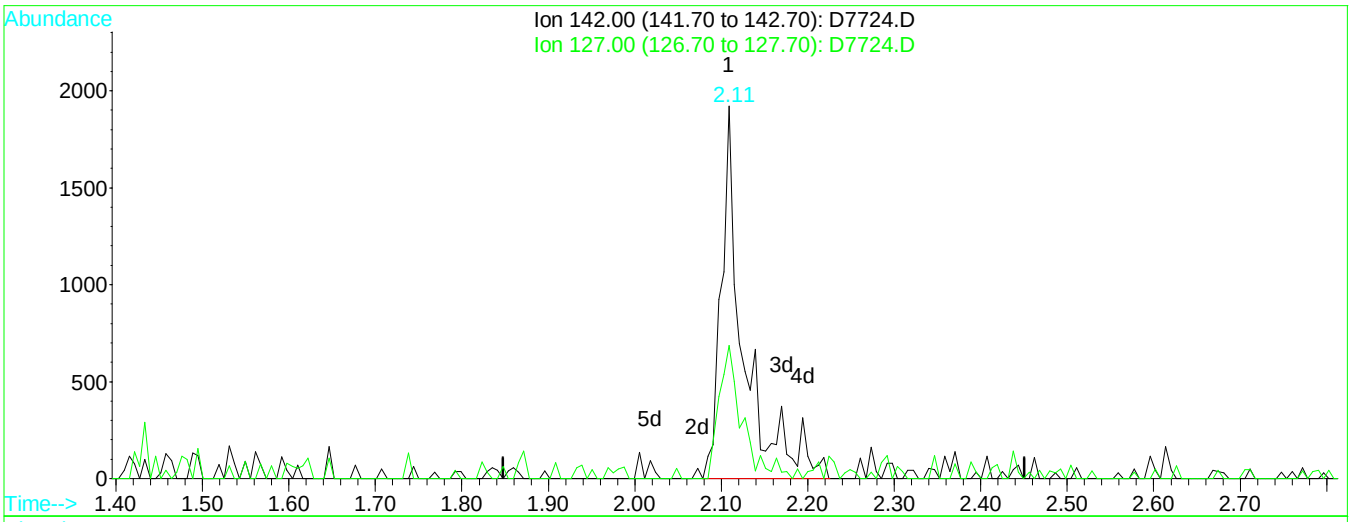
Before

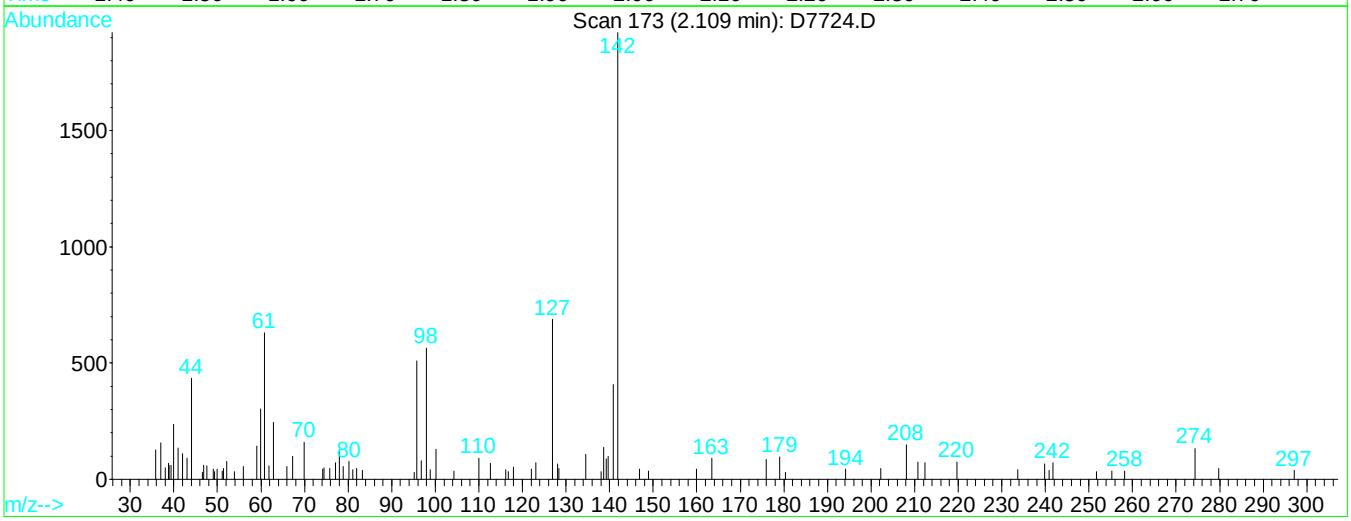
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

2.11min 1.17ug/L m

response 3484

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

Manual Integration:

After

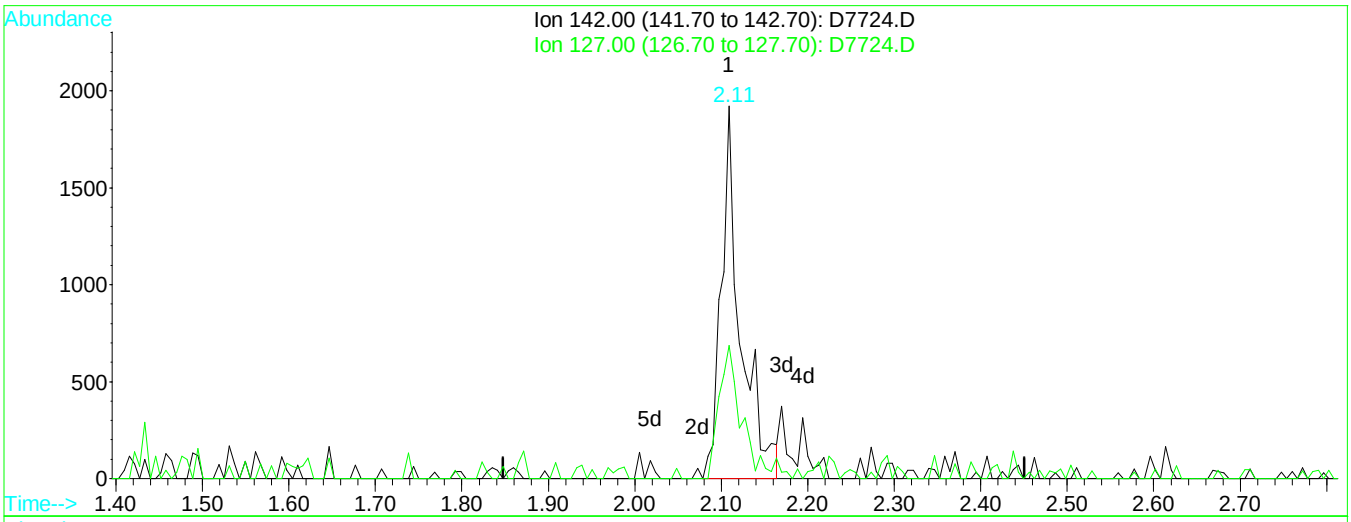
Split Peak.

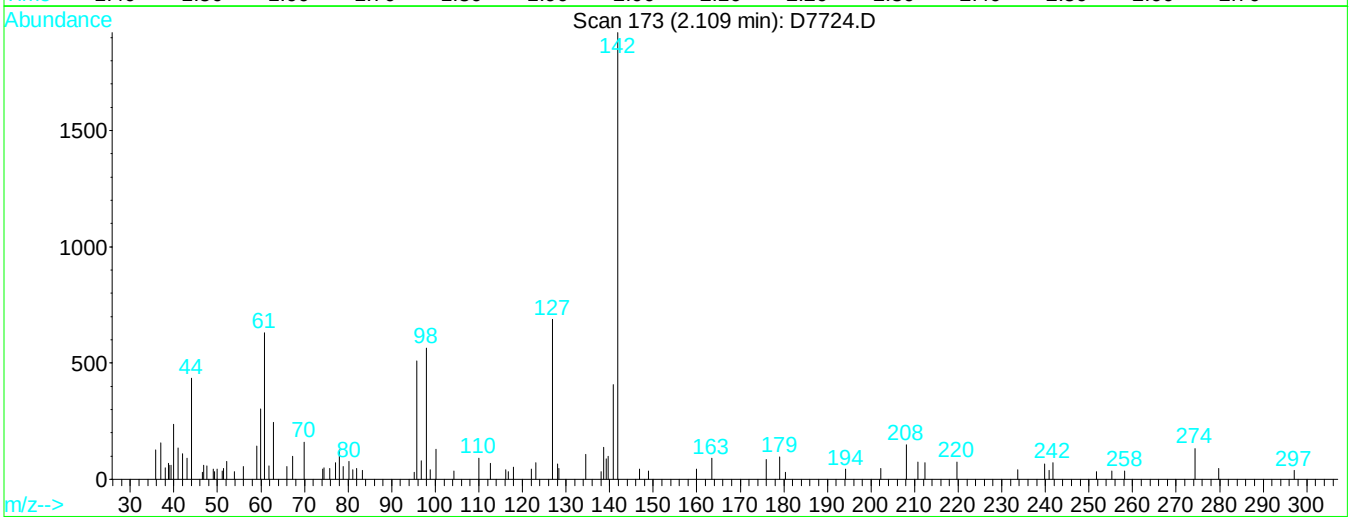
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

2.11min 1.01ug/L

response 3000

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

Manual Integration:

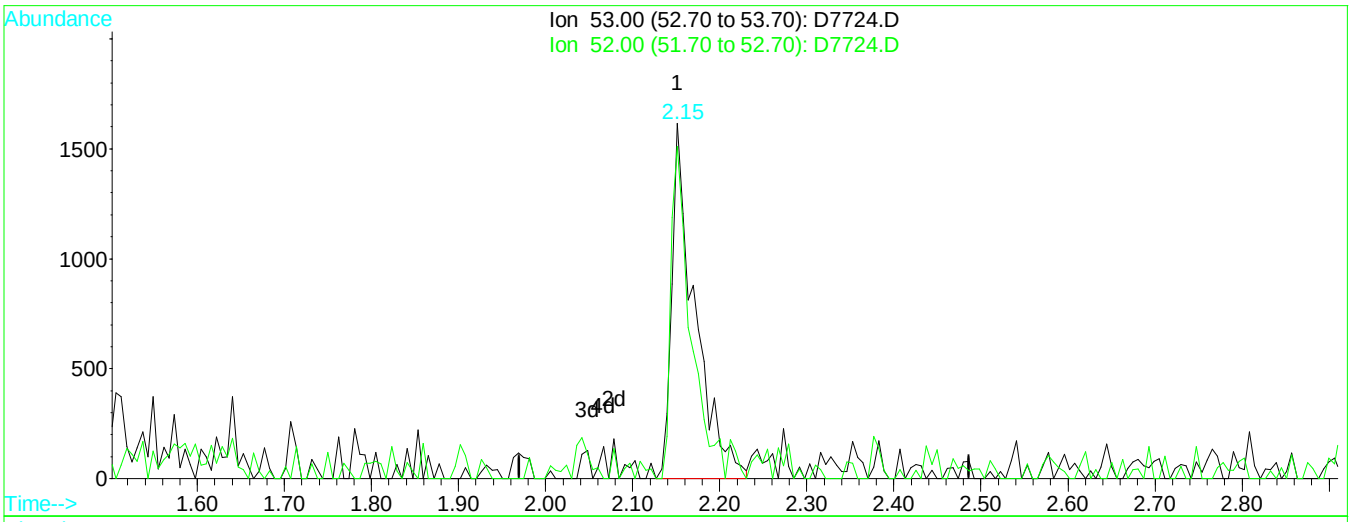
Before

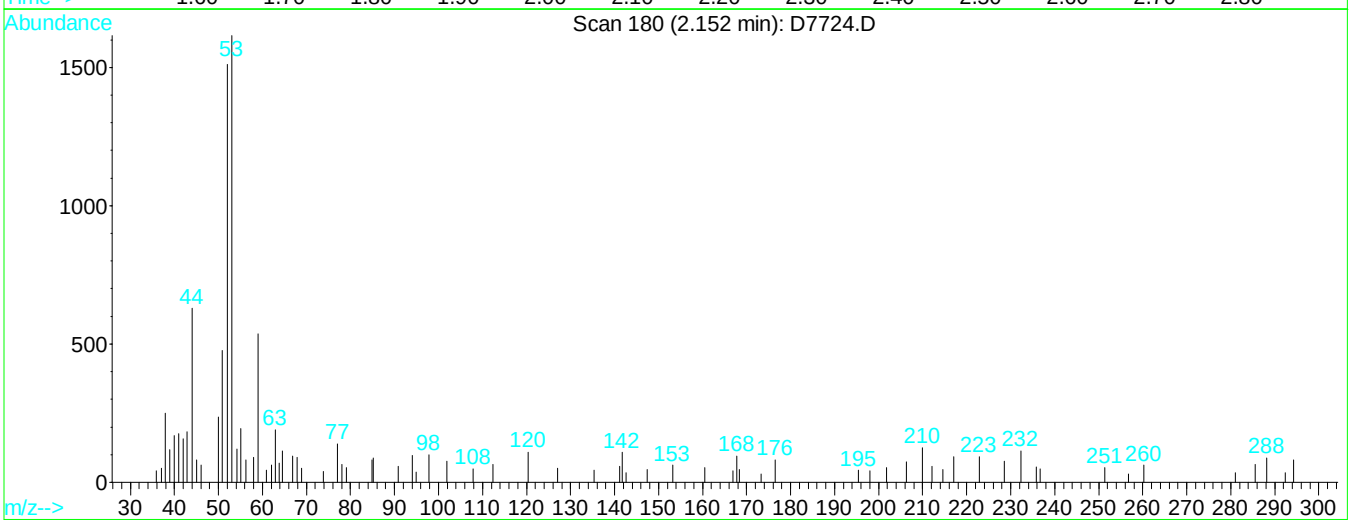
08/25/17

Quantitation Report (Qedit)

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

2.15min 5.36ug/L m

response 2966

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

Manual Integration:

After

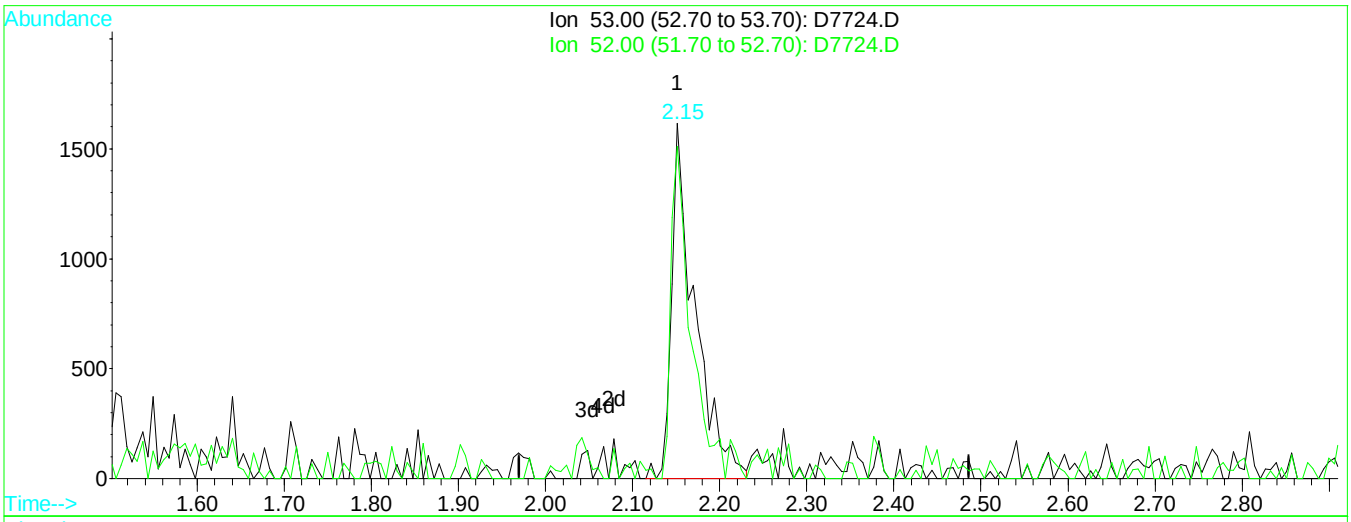
Poor integration.

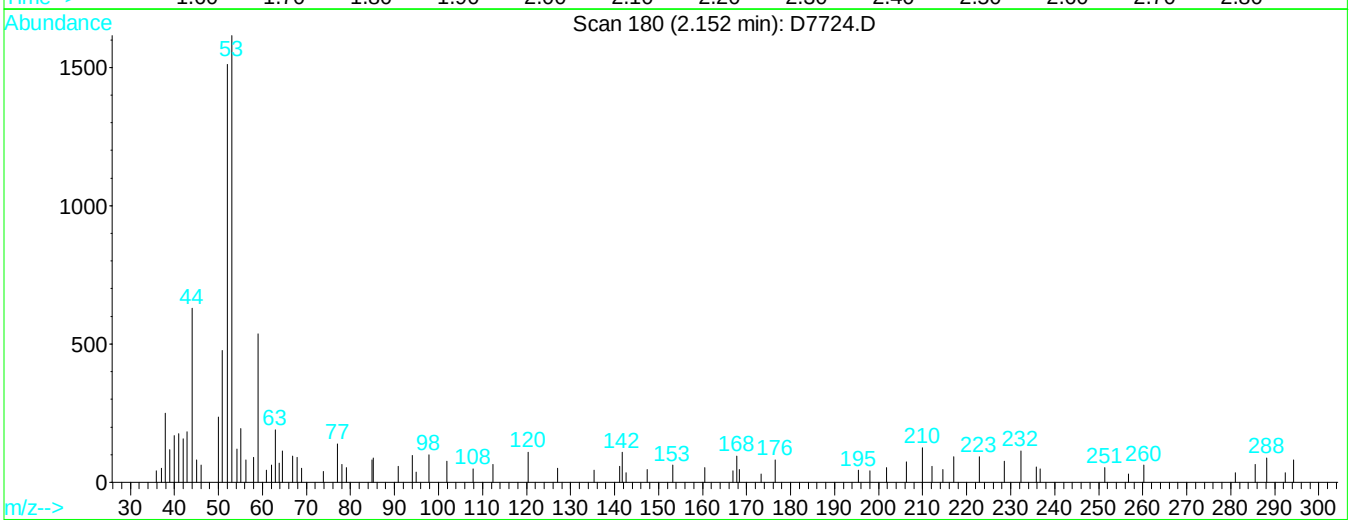
08/25/17

Quantitation Report (Qedit)

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

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

Manual Integration:

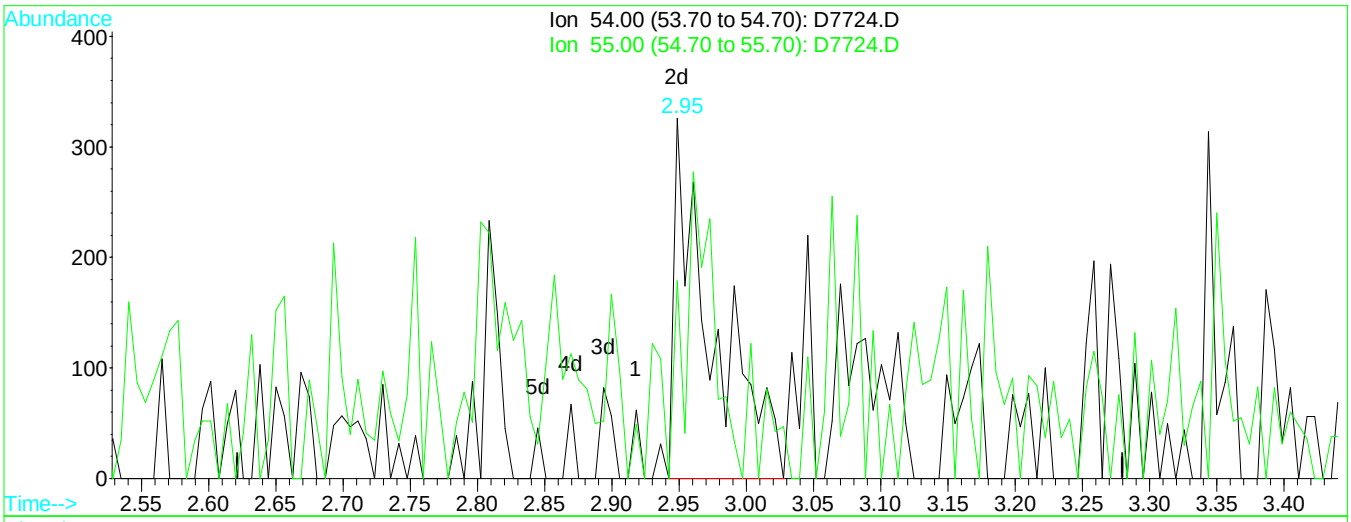
Before

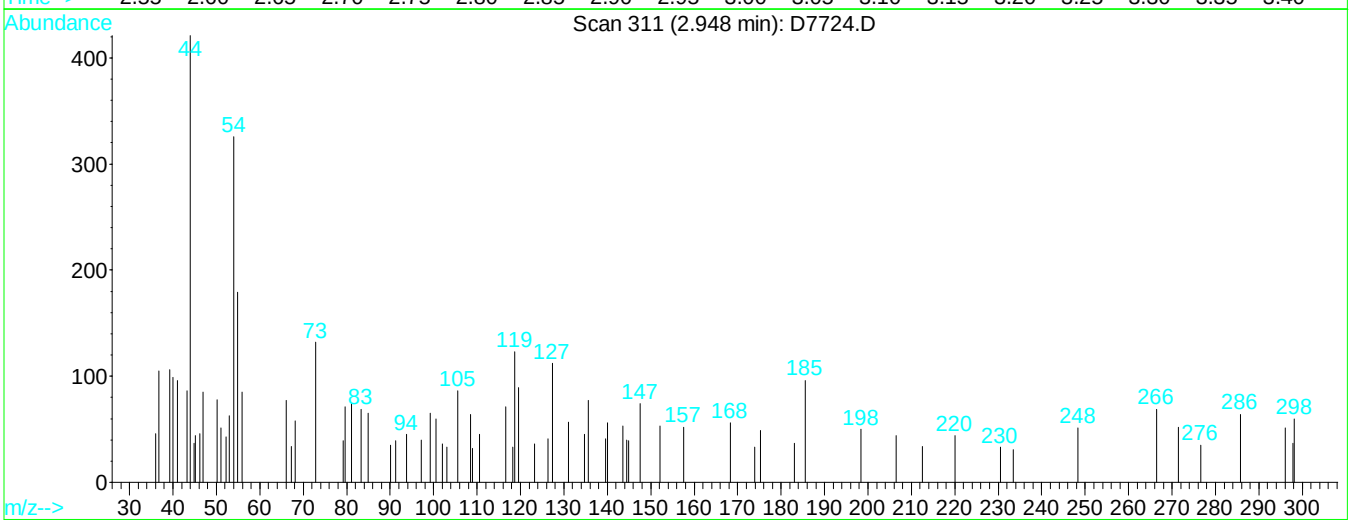
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

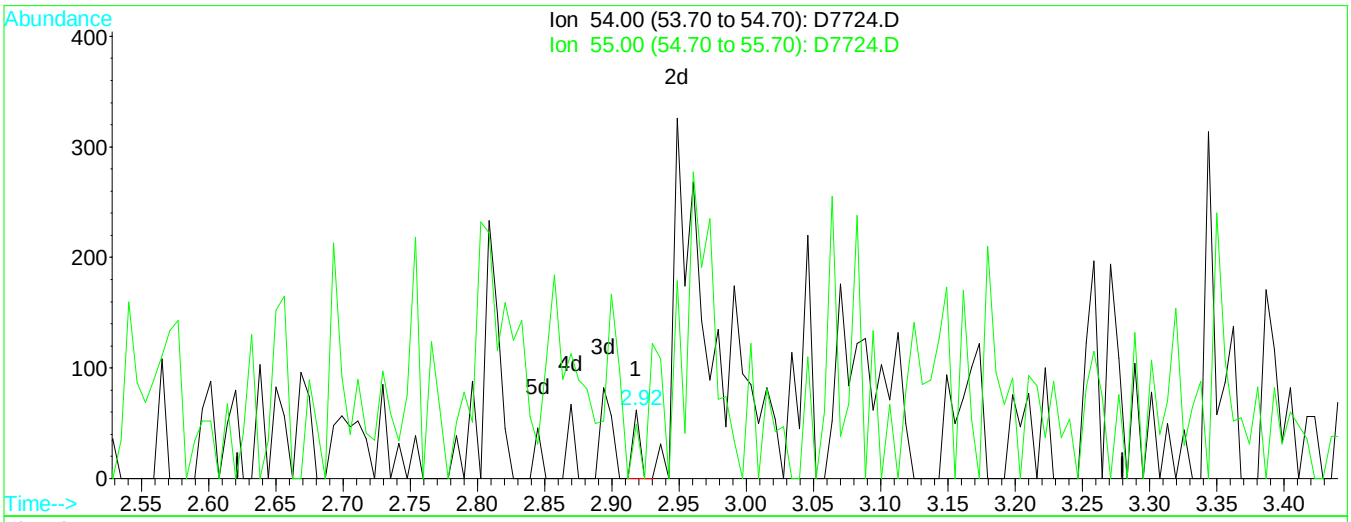
Peak not found.

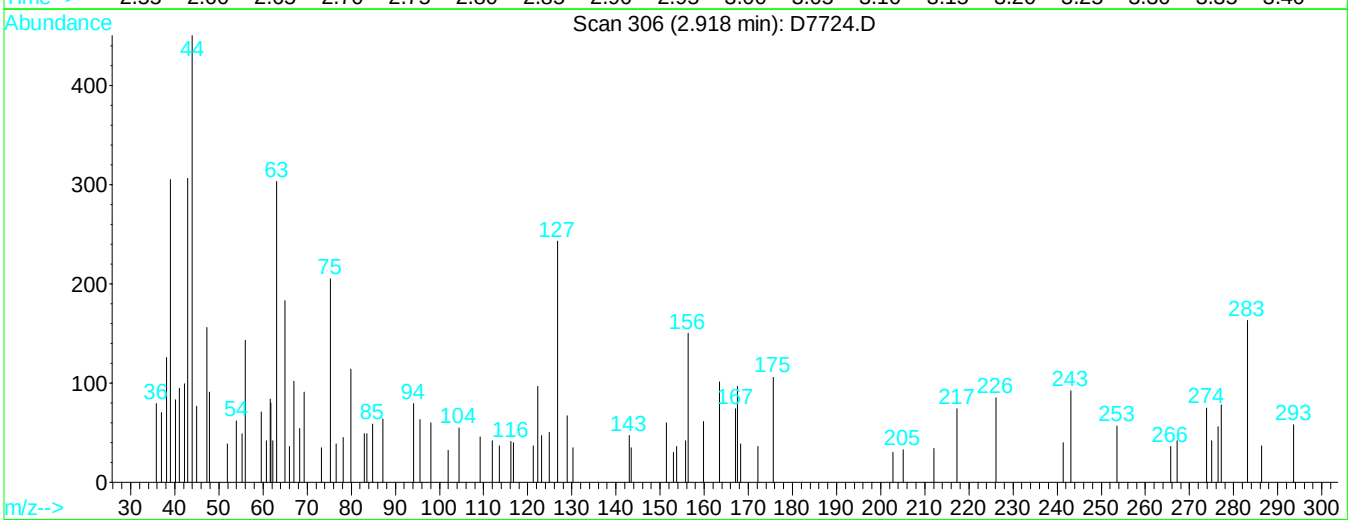
08/25/17

Quantitation Report (Qedit)

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

2.92min 0.12ug/L

response 23

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

Manual Integration:

Before

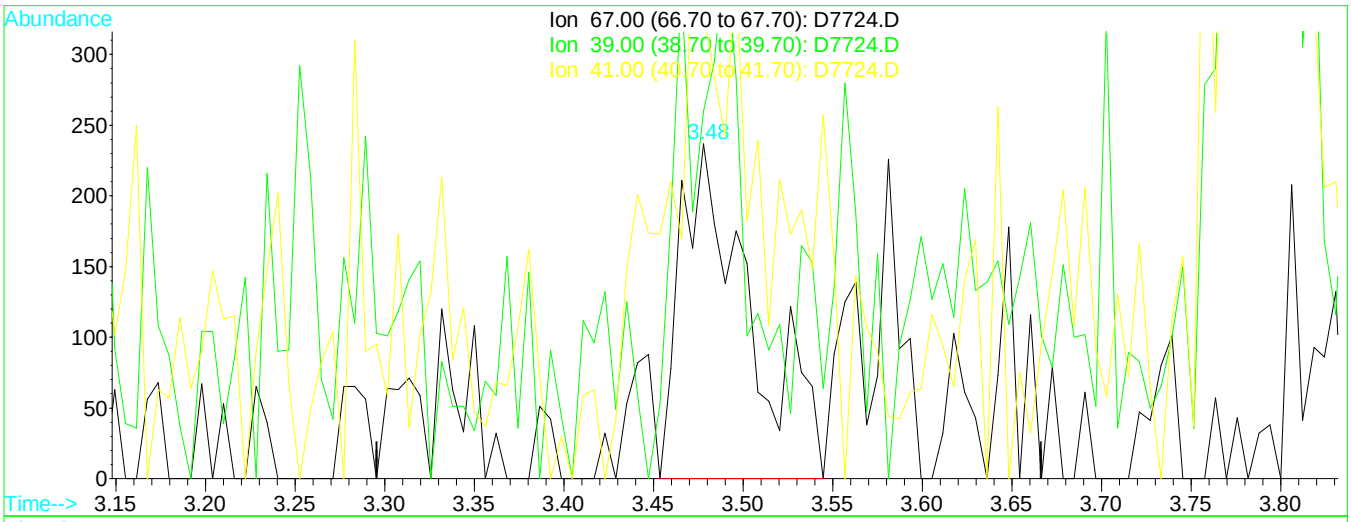
08/25/17

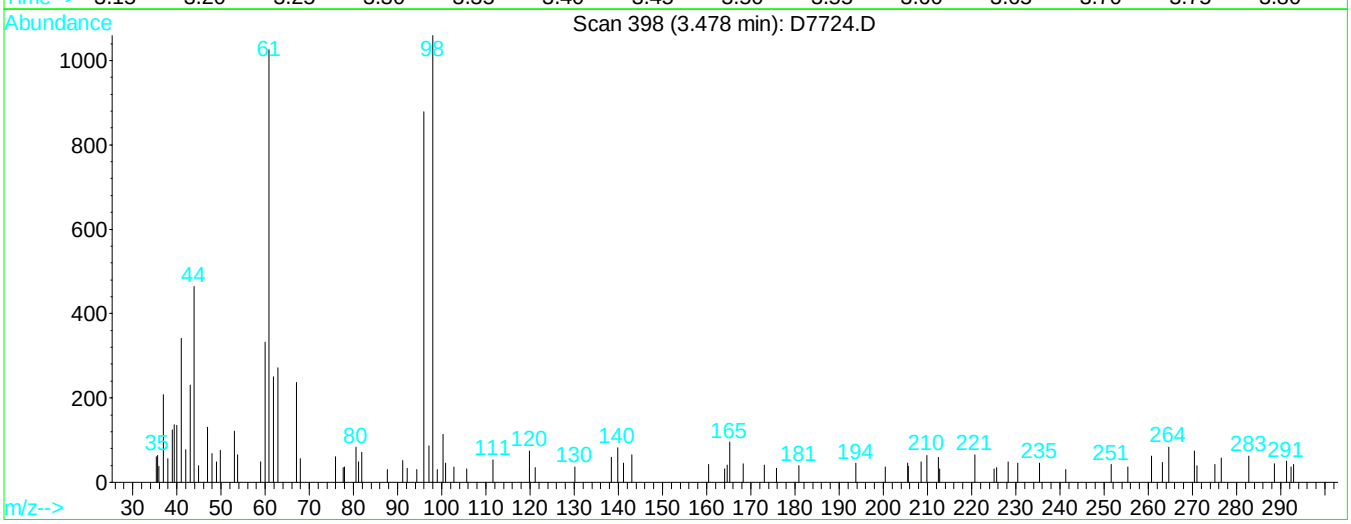
D7724.D W082417.M Fri Aug 25 09:46:33 2017

Quantitation Report (Qedit)

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

3.48min 0.98ug/L m

response 637

Ion	Exp%	Act%
67.00	100	100
39.00	96.70	57.38#
41.00	148.40	143.88
0.00	0.00	0.00

Manual Integration:

After

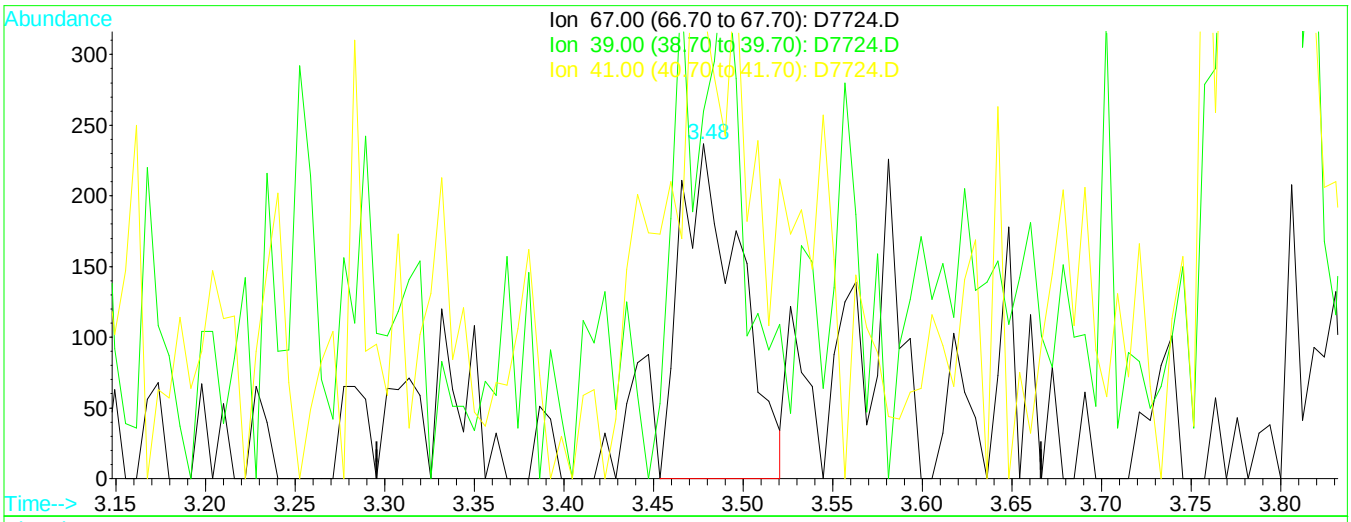
Split Peak.

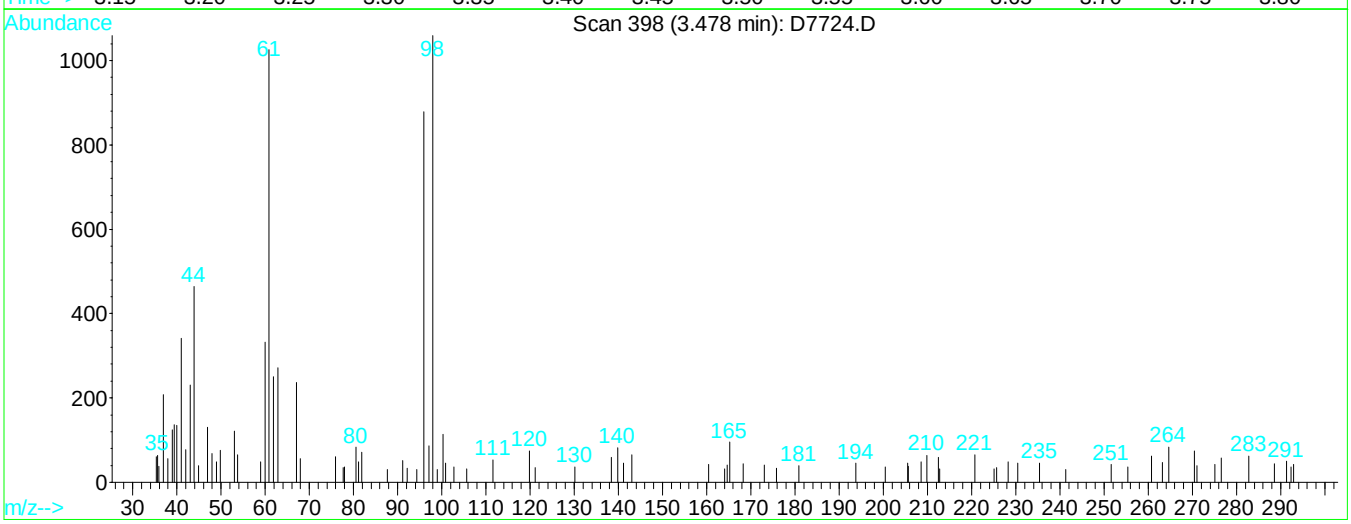
08/25/17

Quantitation Report (Qedit)

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

3.48min 0.84ug/L

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

Manual Integration:

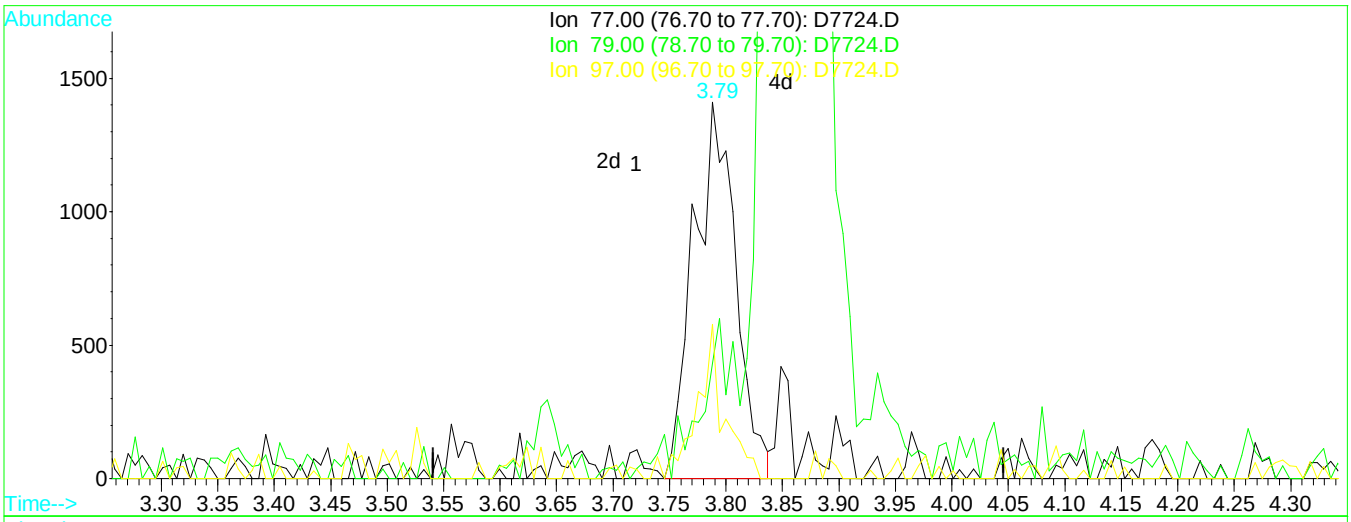
Before

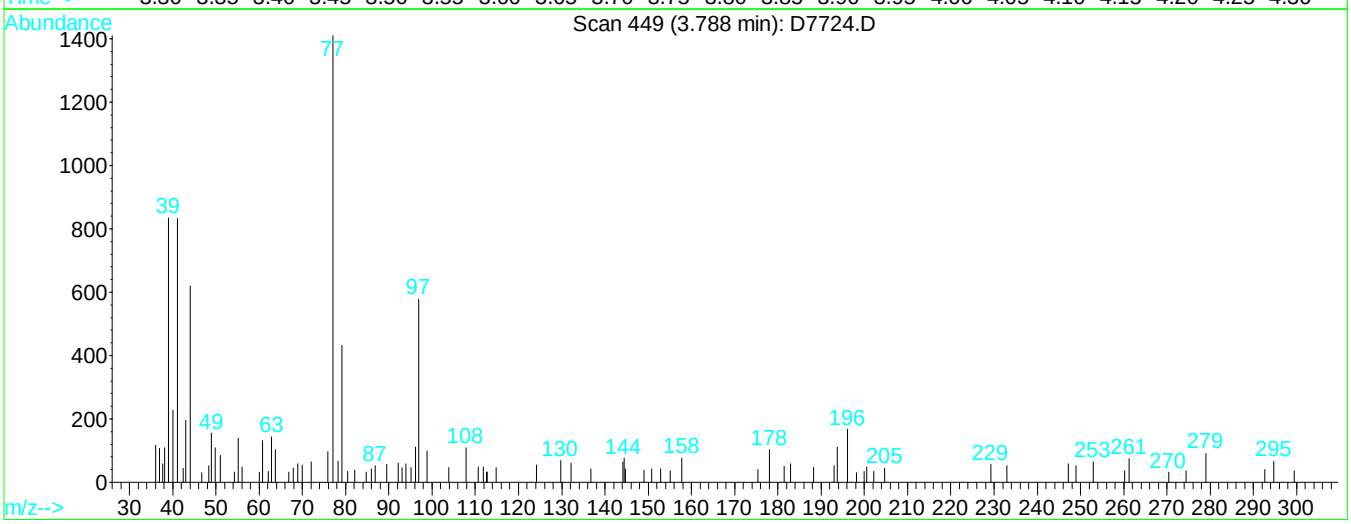
08/25/17

Quantitation Report (Qedit)

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

3.79min 1.12ug/L m

response 3620

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

Manual Integration:

After

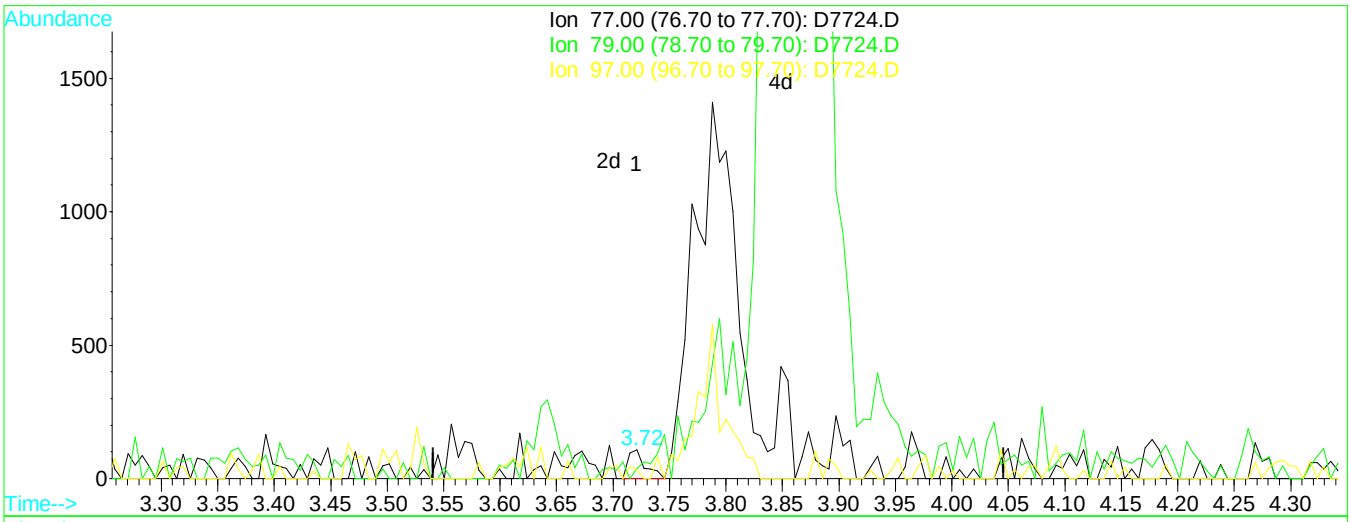
Peak not found.

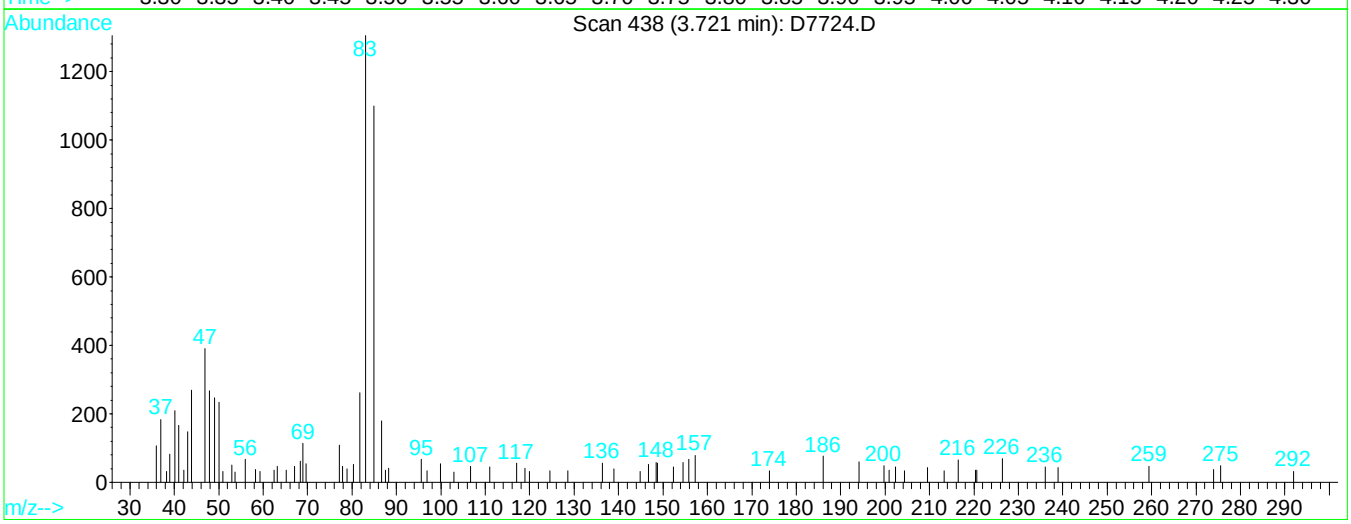
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

3.72min 0.03ug/L

response 112

Ion	Exp%	Act%
77.00	100	100
79.00	32.10	35.78
97.00	19.20	31.19
0.00	0.00	0.00

Manual Integration:

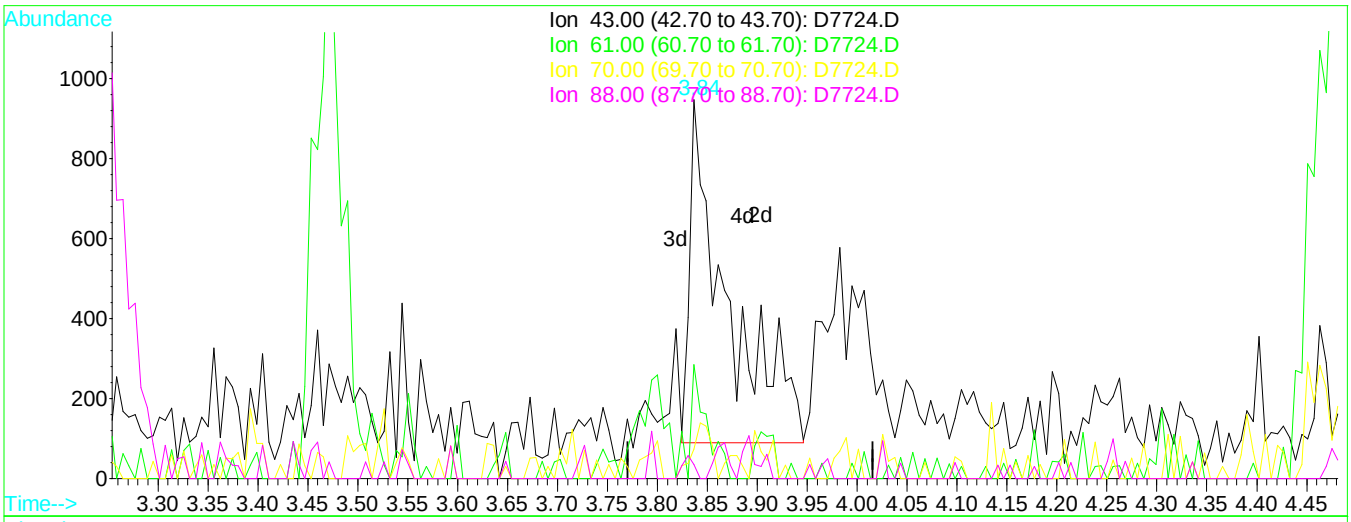
Before

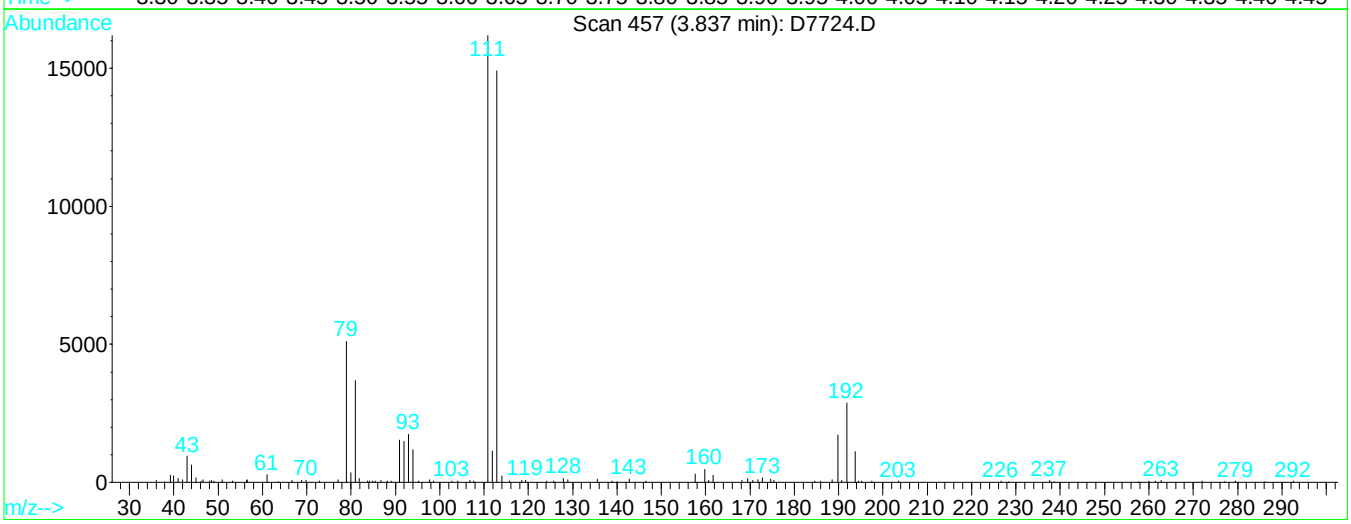
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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 9:48 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.

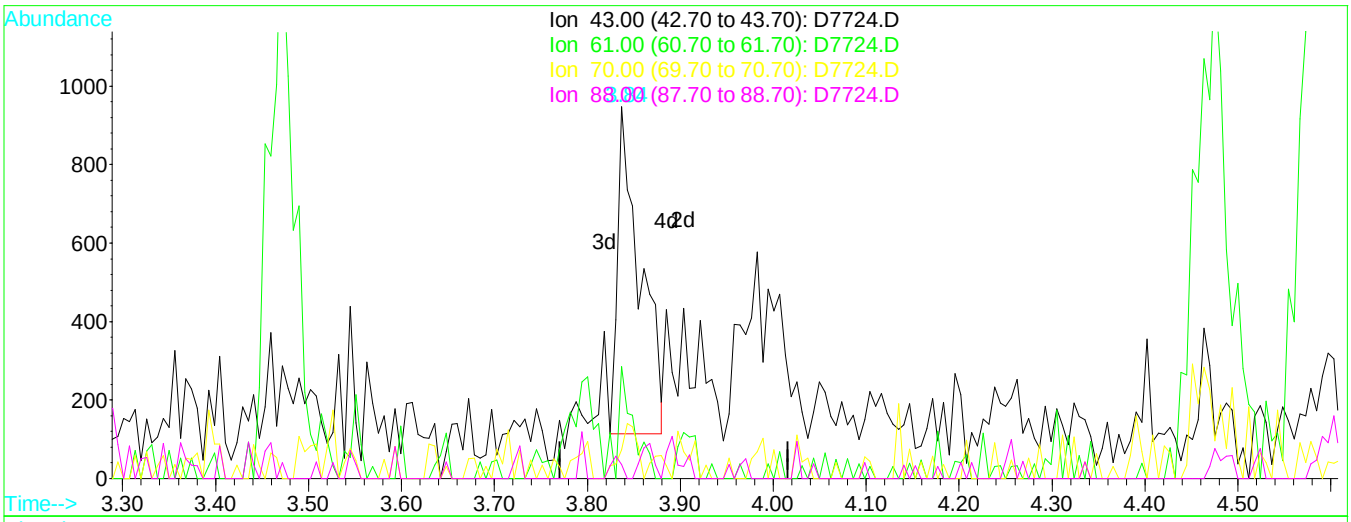
08/25/17

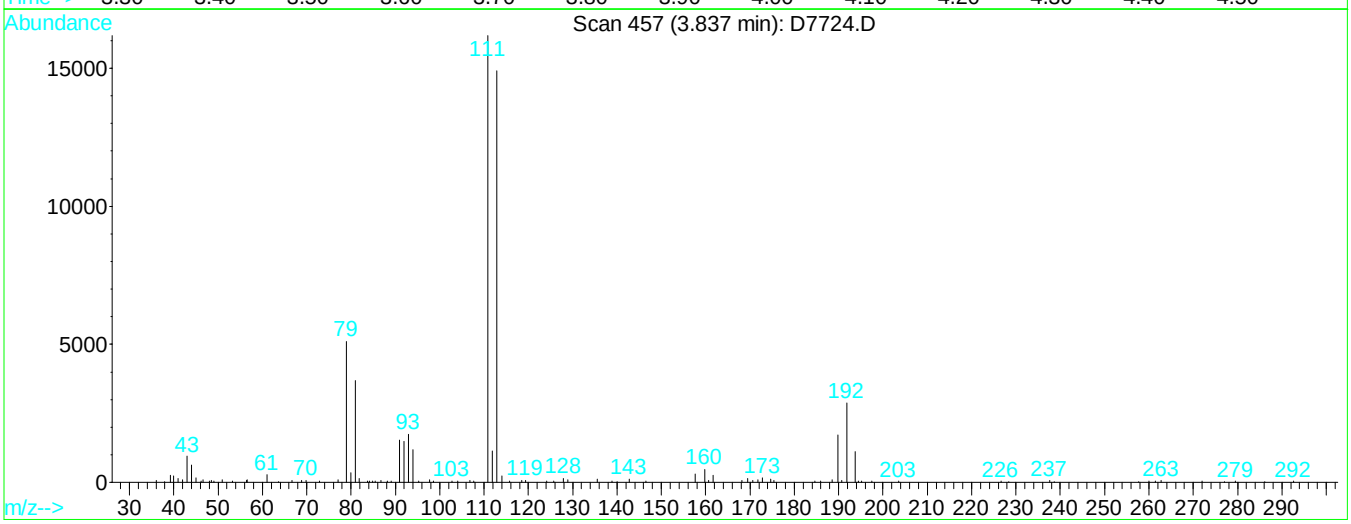
D7724.D W082417.M Fri Aug 25 09:48:34 2017

1st DL 08/25/17
2nd FW 08/26/17

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

3.84min 0.98ug/L

response 1398

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:

Before

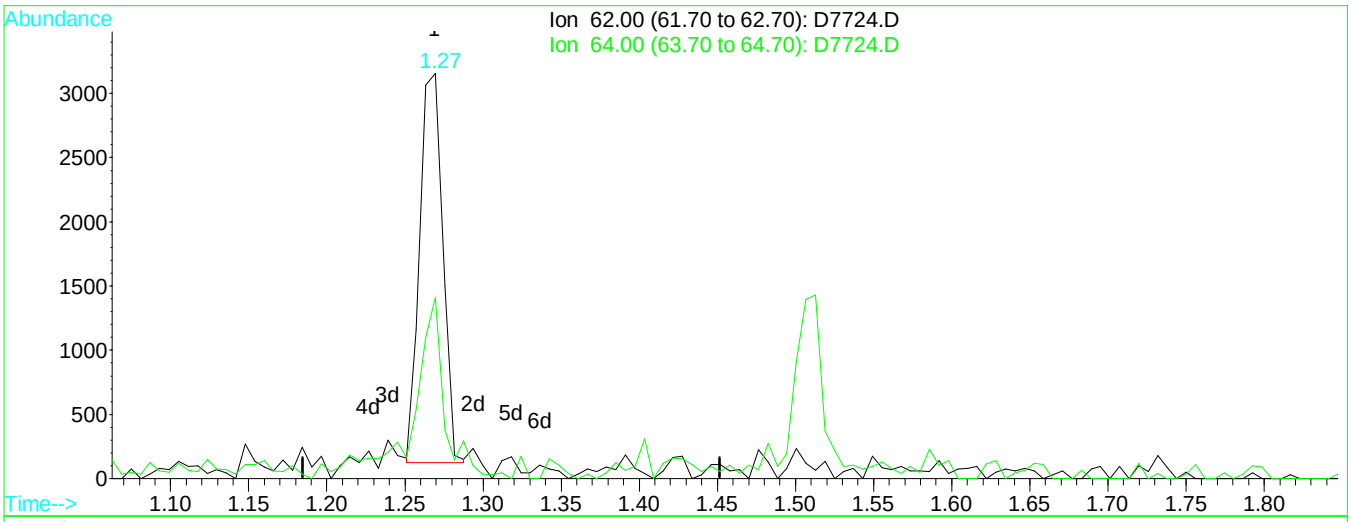
08/25/17

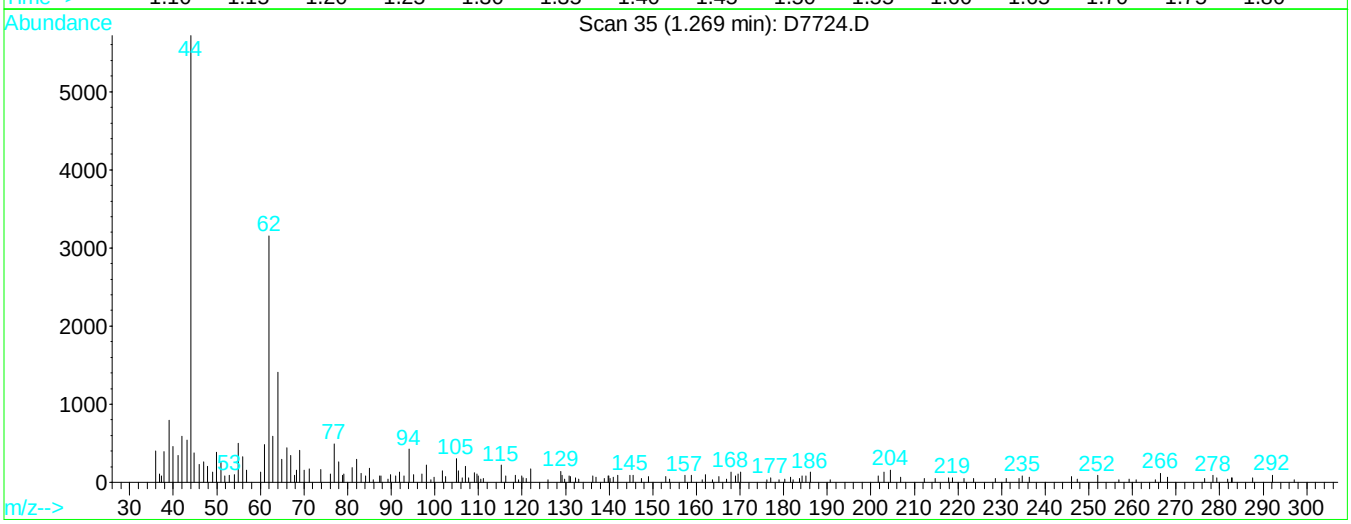
D7724.D W082417.M Fri Aug 25 09:48:09 2017

Quantitation Report (Qedit)

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

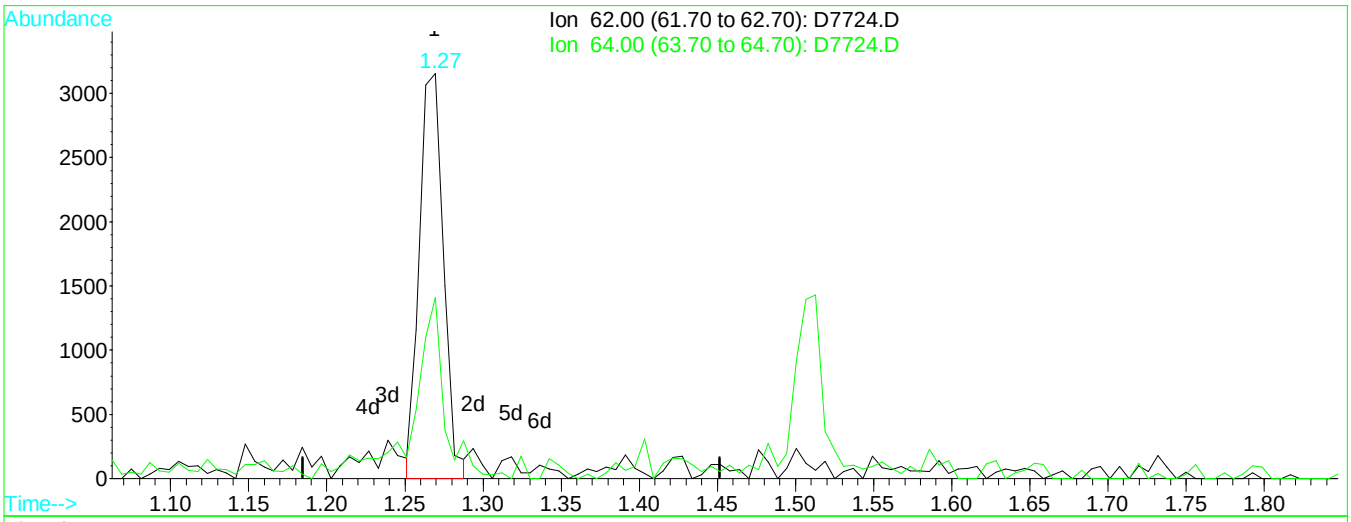
Poor integration.

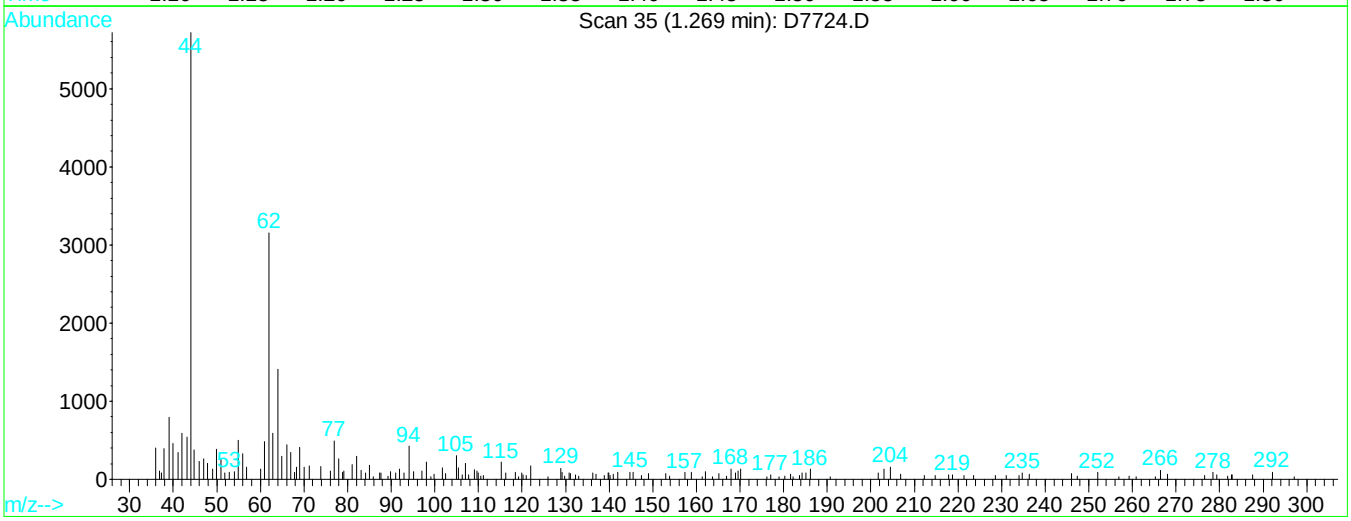
08/25/17

Quantitation Report (Qedit)

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)

1.27min 1.03ug/L

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

Manual Integration:

Before

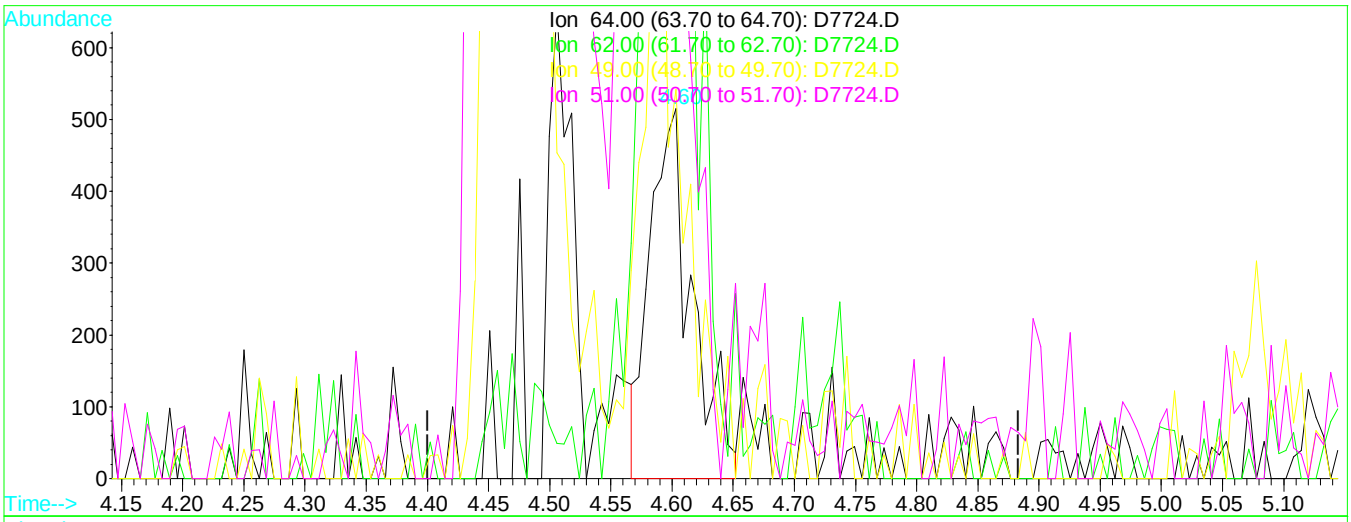
08/25/17

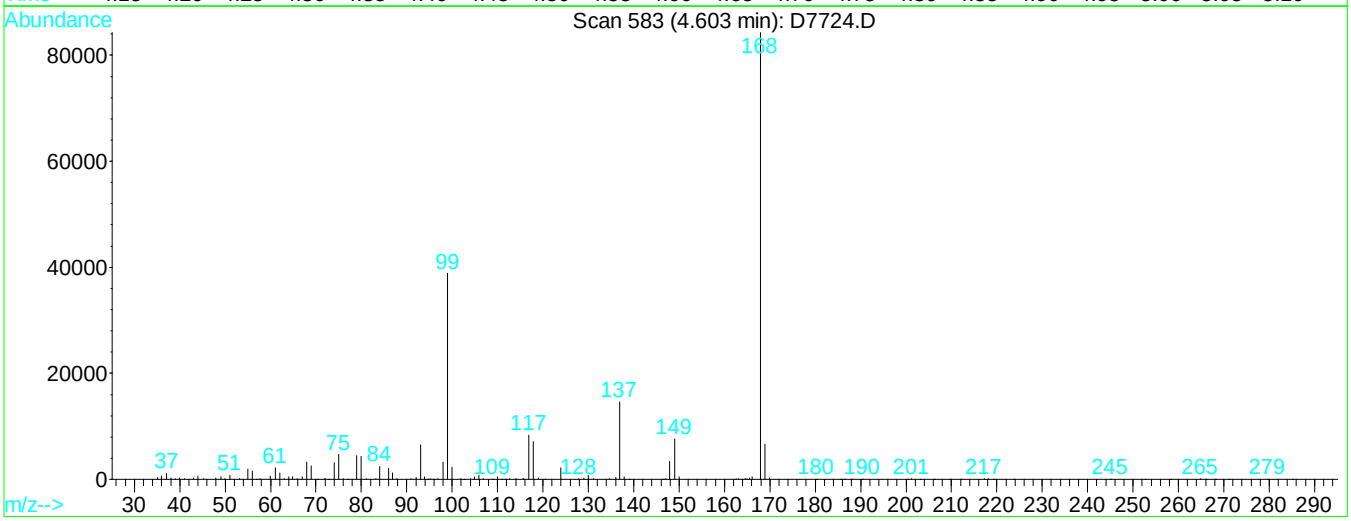
D7724.D W082417.M Fri Aug 25 09:40:09 2017

1st DL 08/25/17
2nd FW 08/26/17

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

(44) 1,2-Dichloroethane (P)

4.60min 1.28ug/L m

response 1233

Ion	Exp%	Act%
64.00	100	100
62.00	291.40	233.59#
49.00	77.00	105.24#
51.00	29.80	153.01#

Manual Integration:

After

Split Peak.

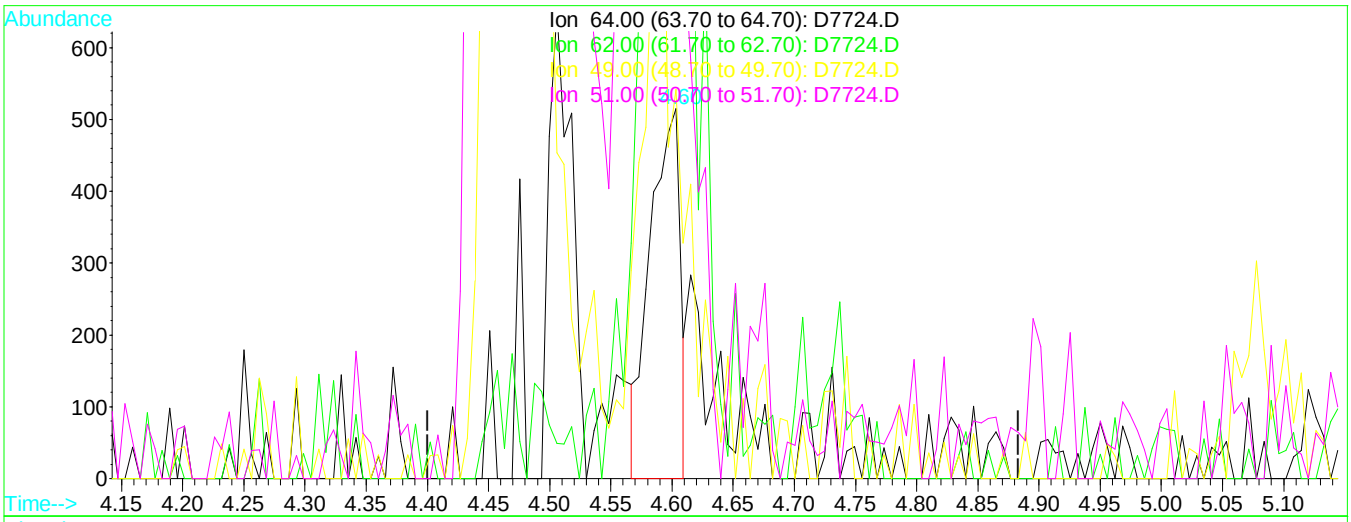
08/25/17

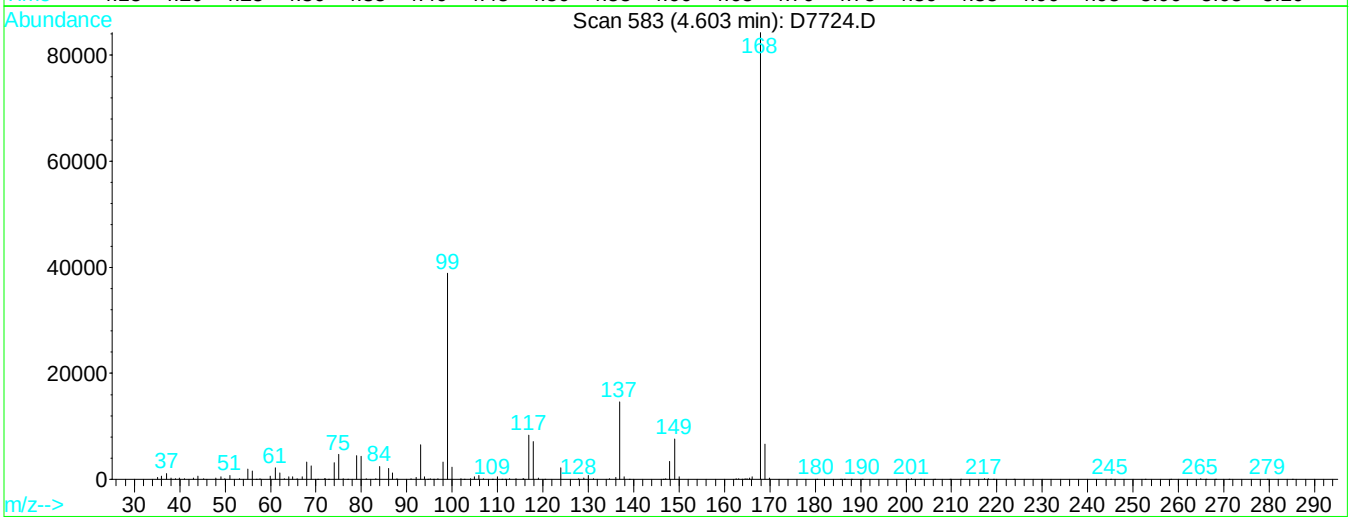
D7724.D W082417.M Fri Aug 25 09:49:40 2017

1st DL 08/25/17
2nd FW 08/26/17

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 9:48 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

(44) 1,2-Dichloroethane (P)

4.60min 0.92ug/L

response 882

Ion	Exp%	Act%
64.00	100	100
62.00	291.40	233.59#
49.00	77.00	105.24#
51.00	29.80	153.01#

Manual Integration:

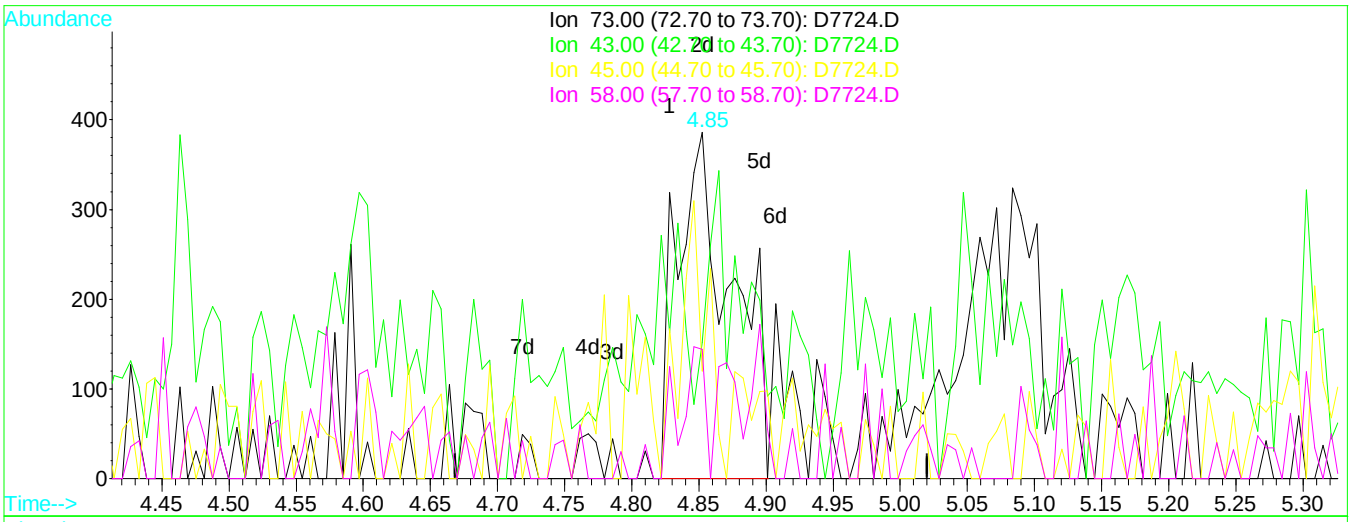
Before

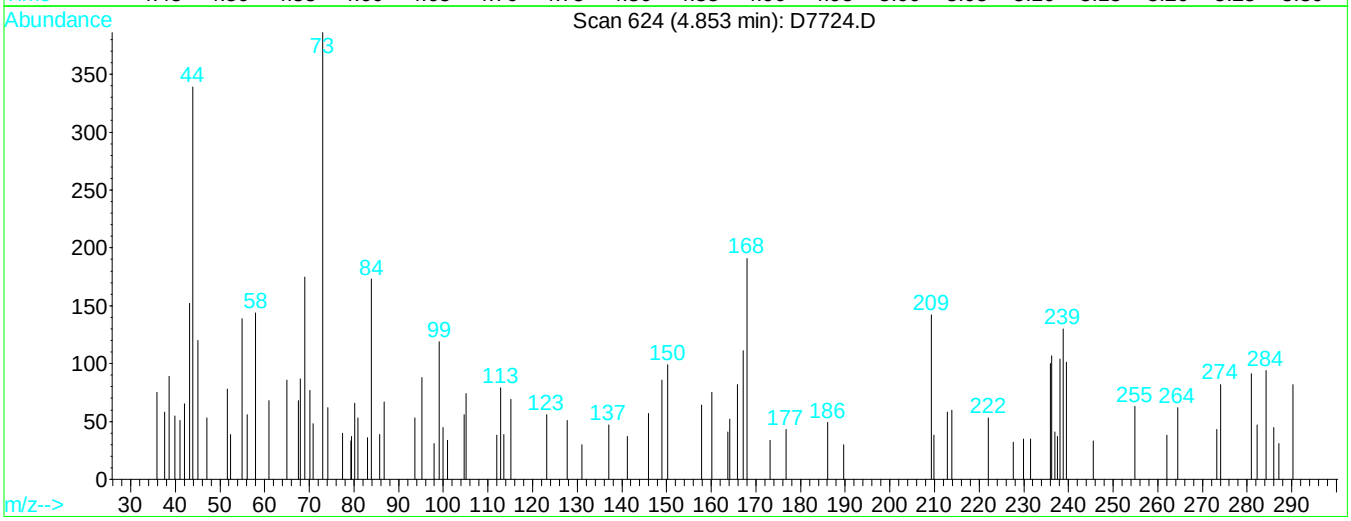
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

(45) 2-Methyl-1,3-Dioxolane

4.85min 4.72ug/L m

response 1097

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

Manual Integration:

After

Peak not found.

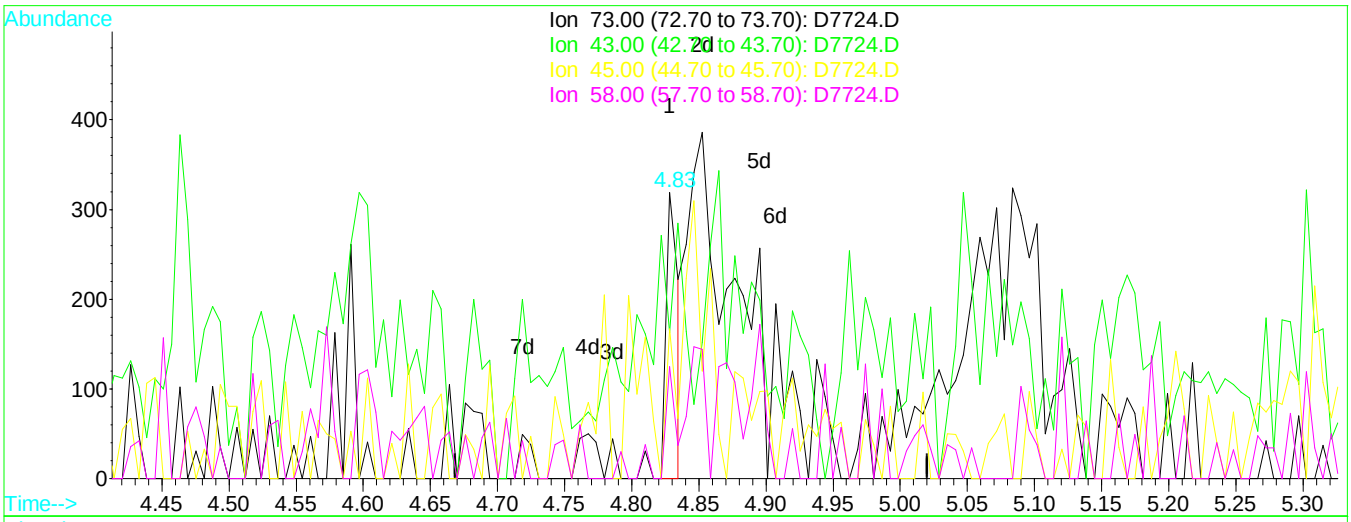
08/25/17

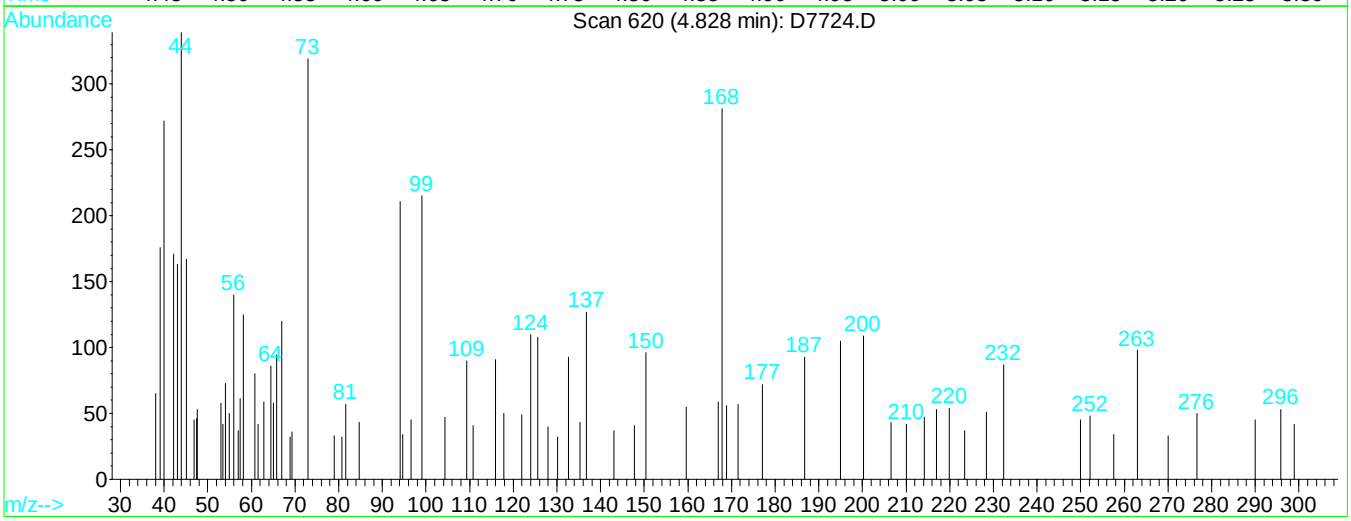
D7724.D W082417.M Fri Aug 25 09:50:23 2017

Quantitation Report (Qedit)

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

4.83min 0.85ug/L

response 197

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

Manual Integration:

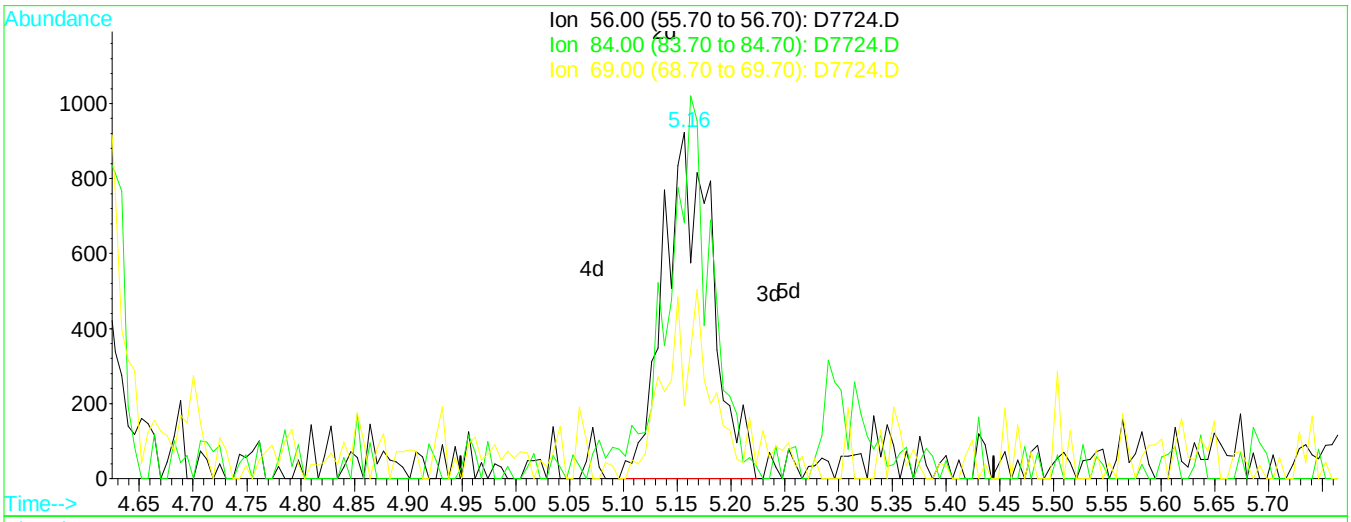
Before

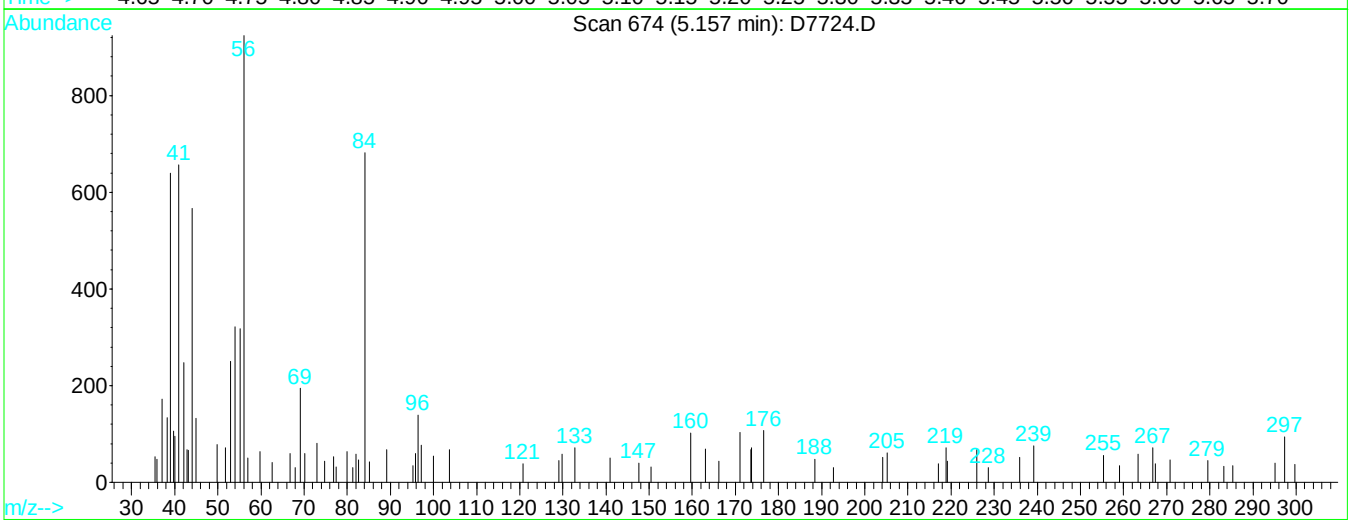
08/25/17

Quantitation Report (Qedit)

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)

5.16min 1.13ug/L m

response 2940

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

Manual Integration:

After

Split Peak.

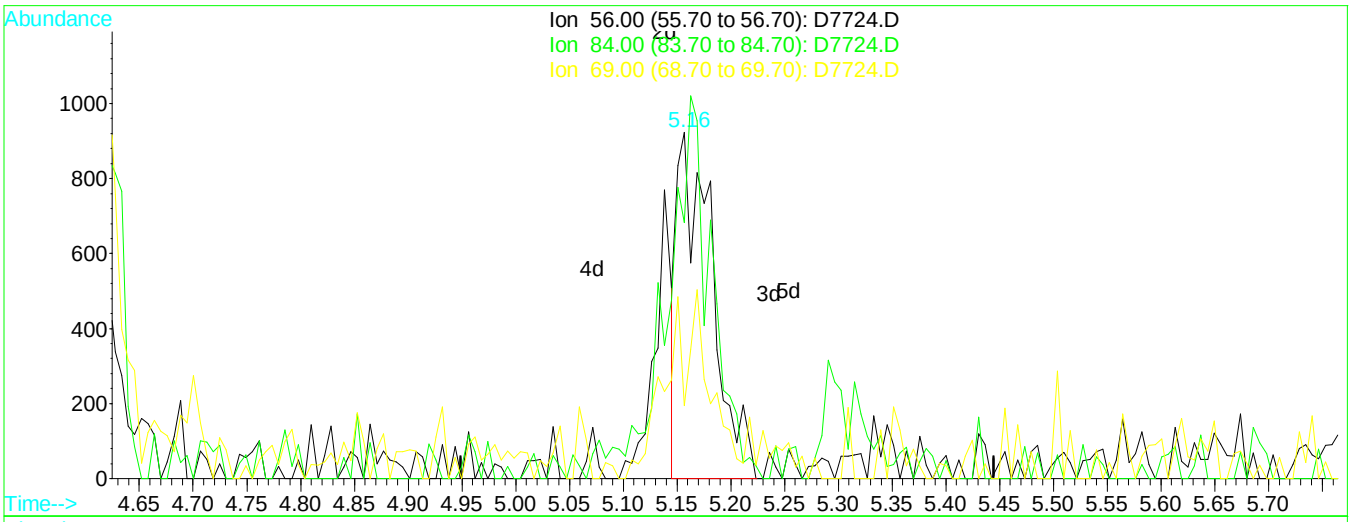
08/25/17

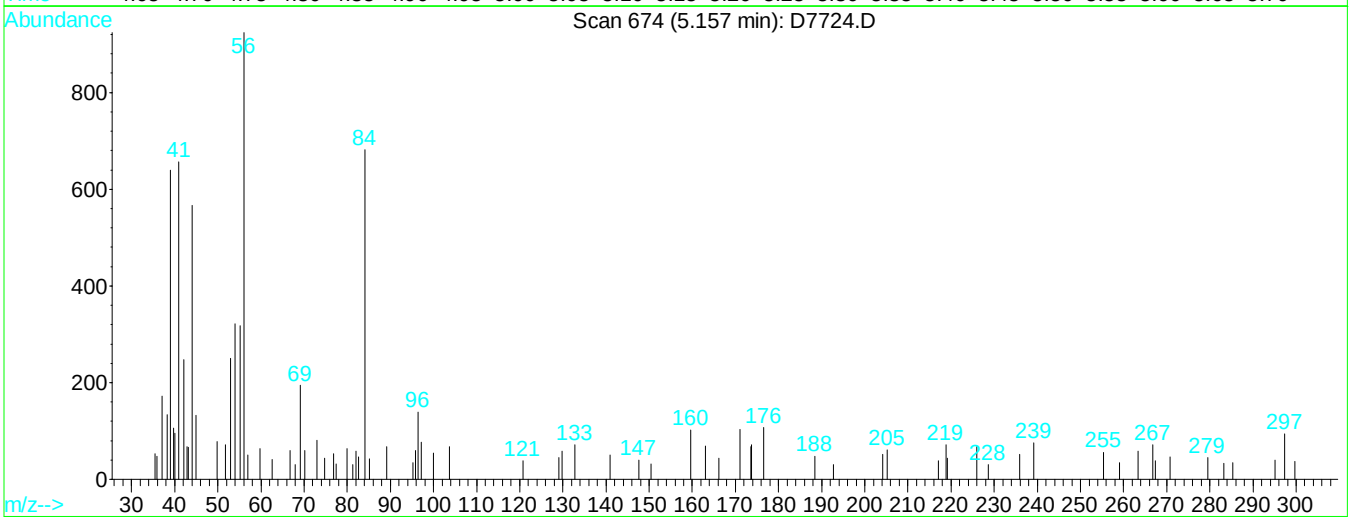
D7724.D W082417.M Fri Aug 25 09:50:58 2017

Quantitation Report (Qedit)

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)

5.16min 0.81ug/L

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

Manual Integration:

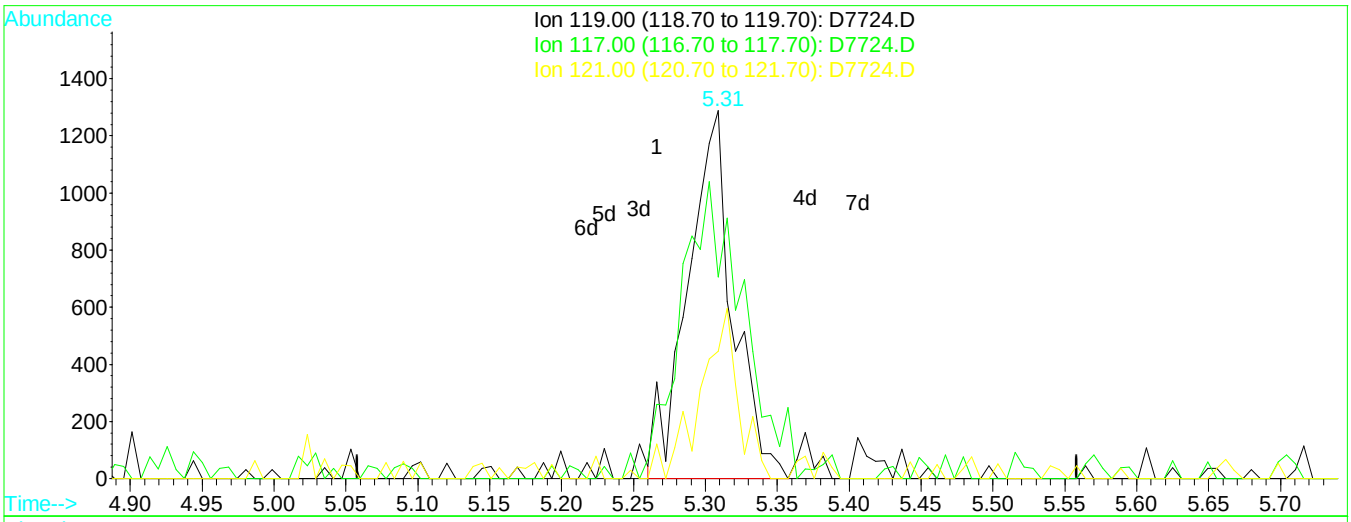
Before

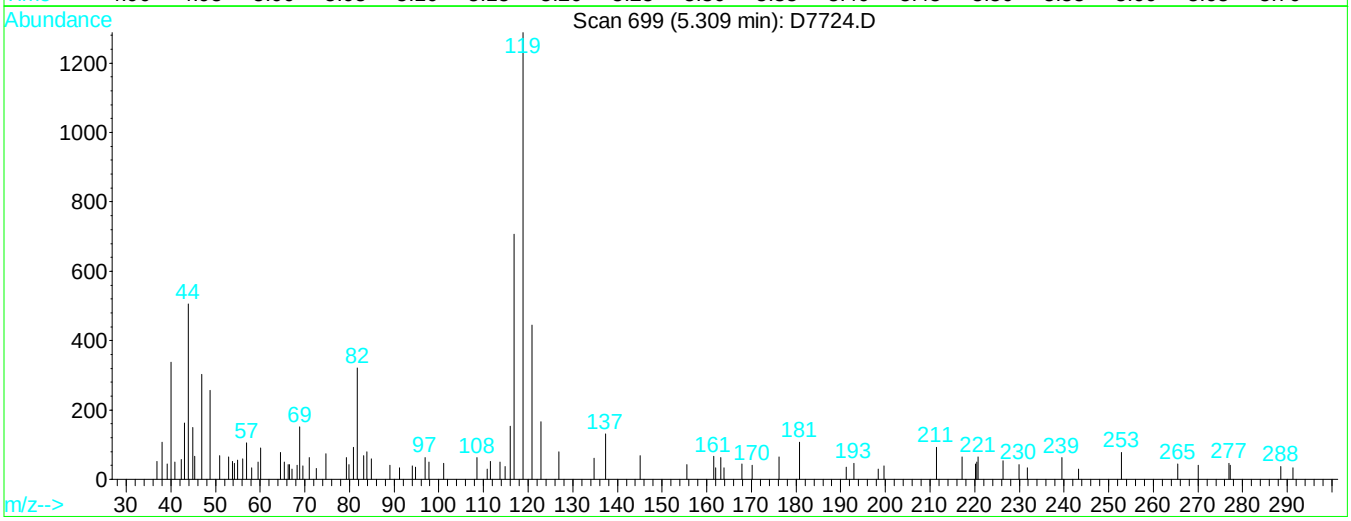
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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)

5.31min 1.00ug/L m

response 2822

Ion	Exp%	Act%
119.00	100	100
117.00	96.70	54.89#
121.00	33.20	34.55
0.00	0.00	0.00

Manual Integration:

After

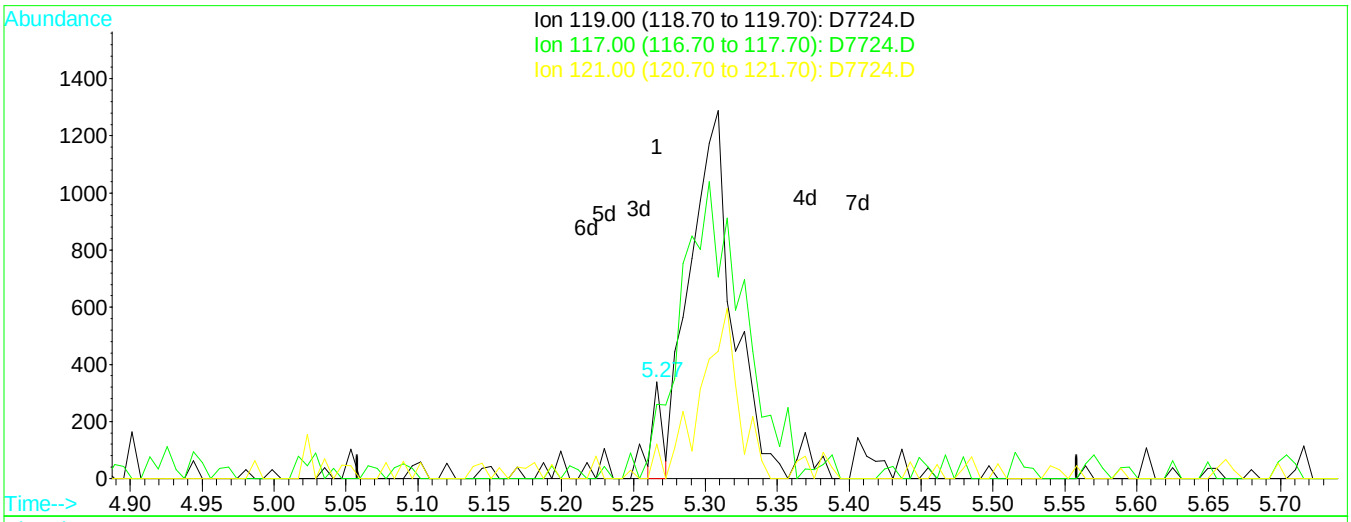
Peak not found.

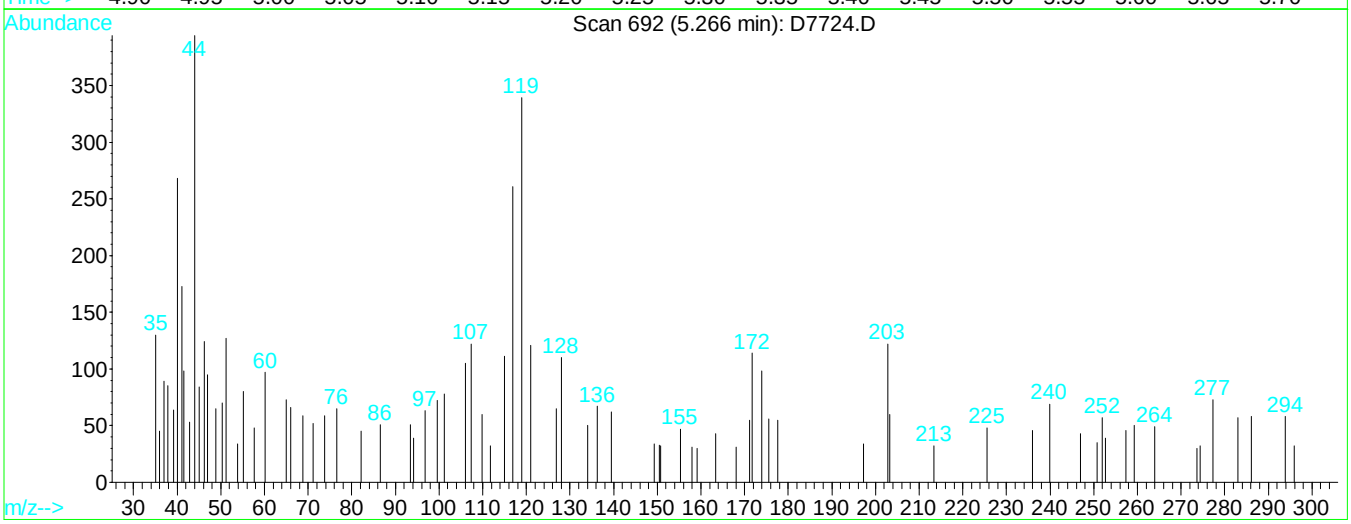
08/25/17

Quantitation Report (Qedit)

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)

5.27min 0.05ug/L

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

Manual Integration:

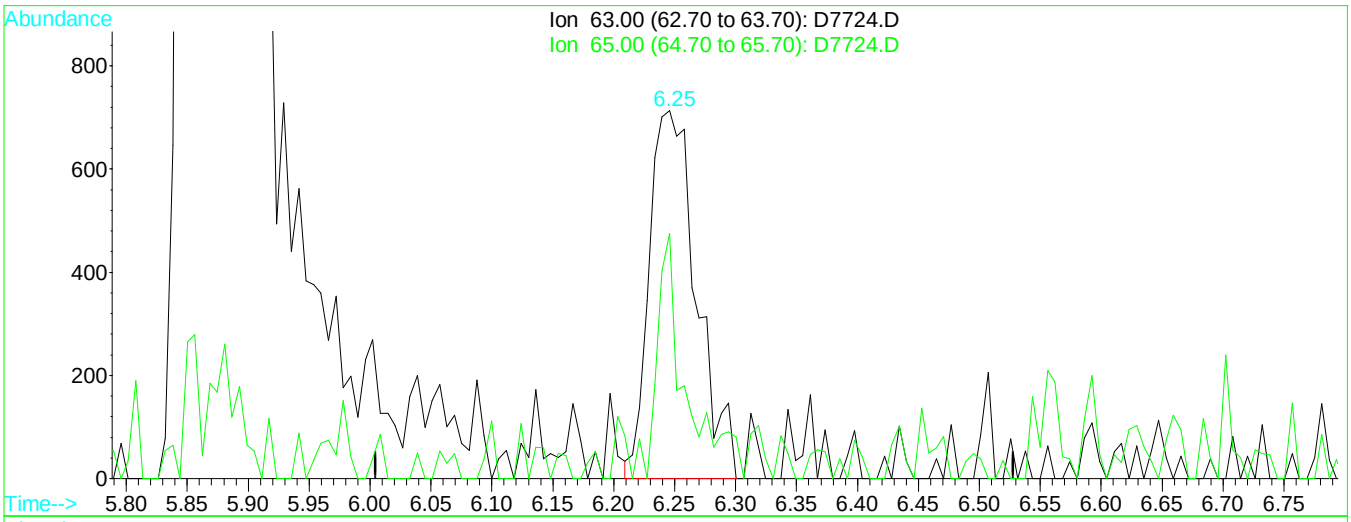
Before

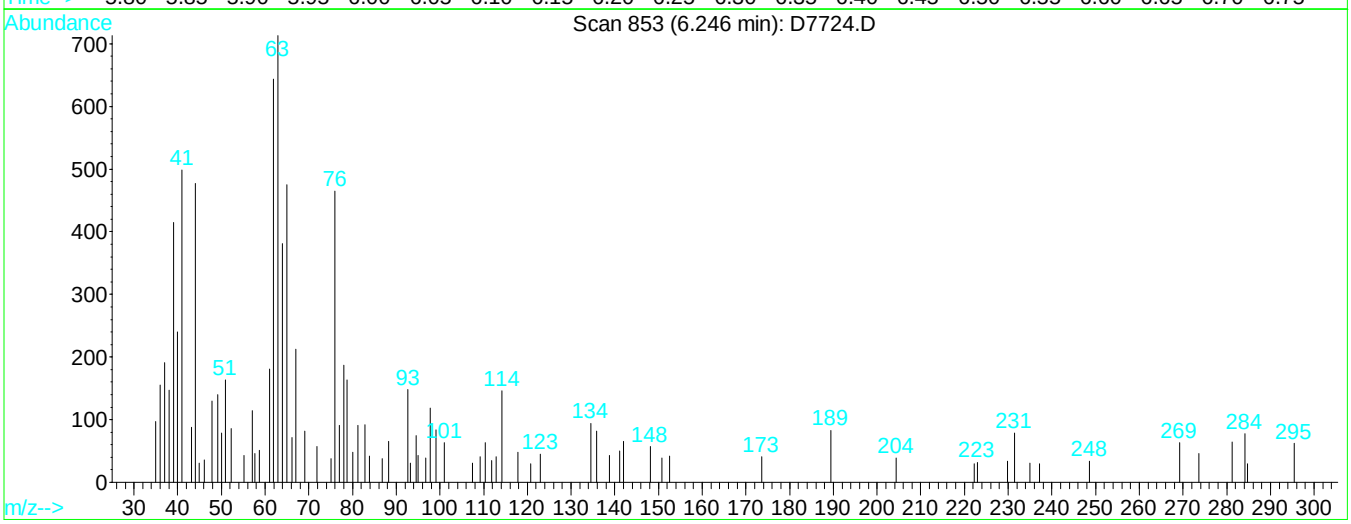
08/25/17

Quantitation Report (Qedit)

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-Diclpropane (P)

6.25min 1.10ug/L m

response 1919

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

Manual Integration:

After

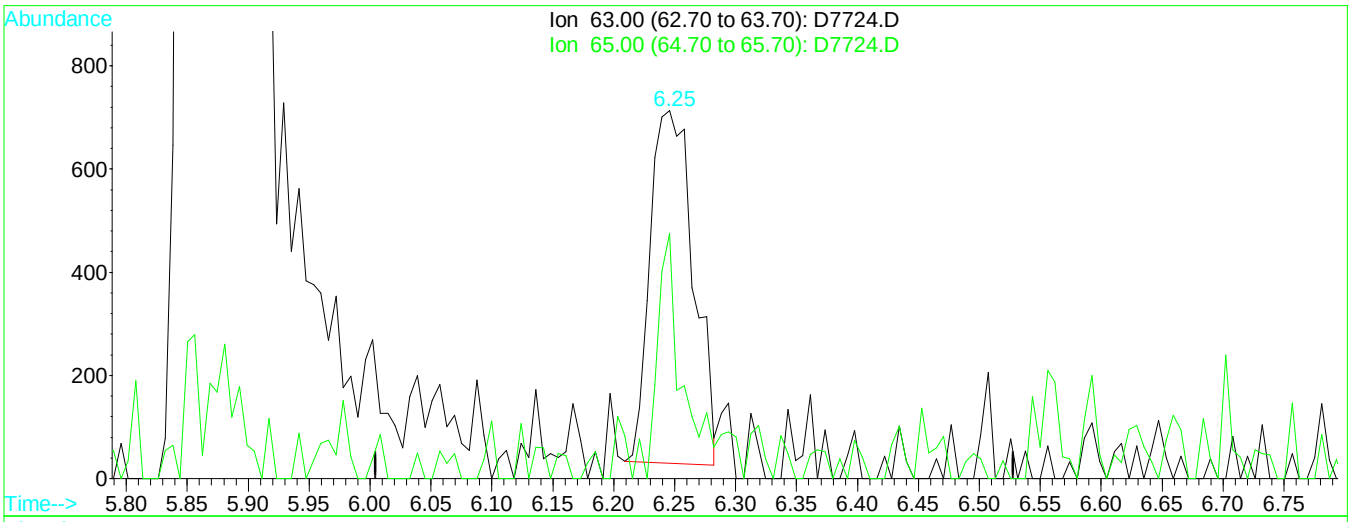
Poor integration.

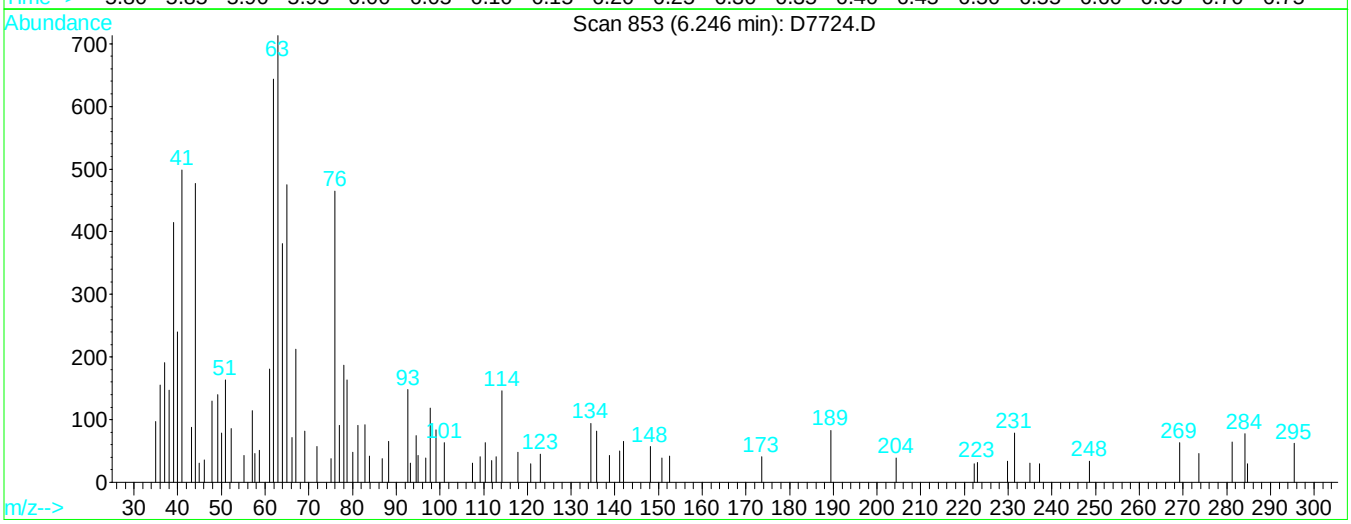
08/25/17

Quantitation Report (Qedit)

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-Diclpropane (P)

6.25min 0.96ug/L

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

Manual Integration:

Before

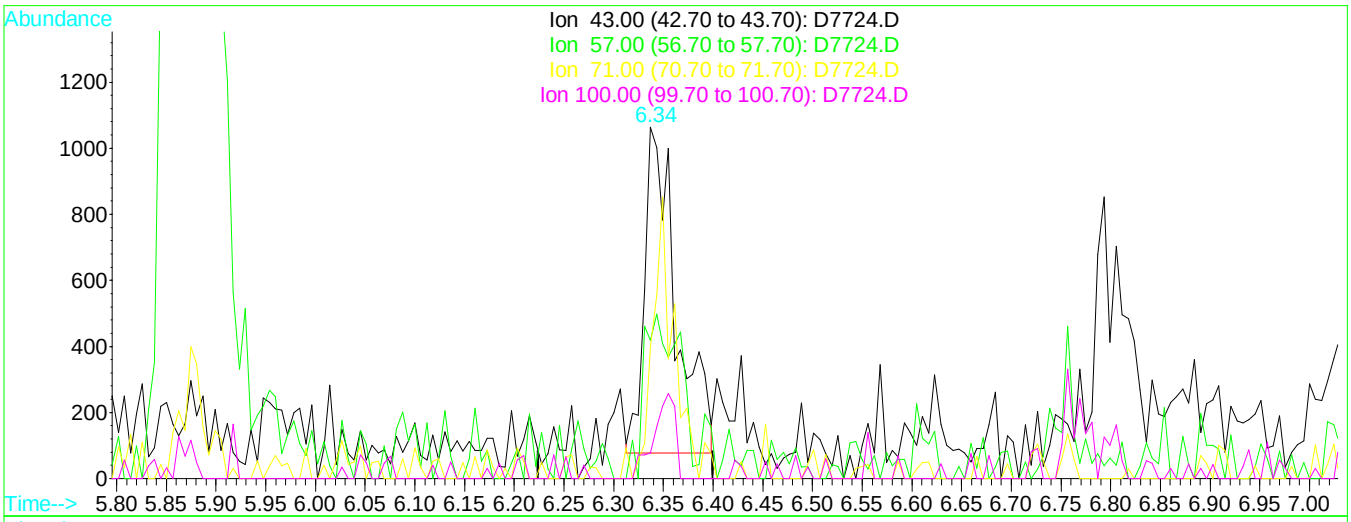
08/25/17

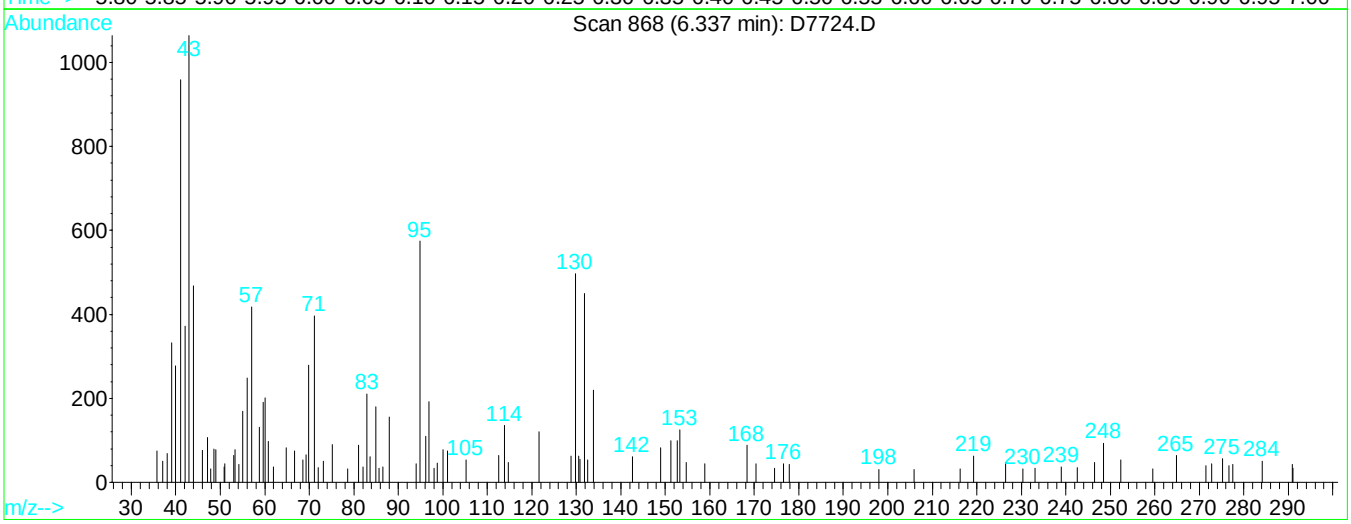
D7724.D W082417.M Fri Aug 25 09:51:54 2017

Quantitation Report (Qedit)

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

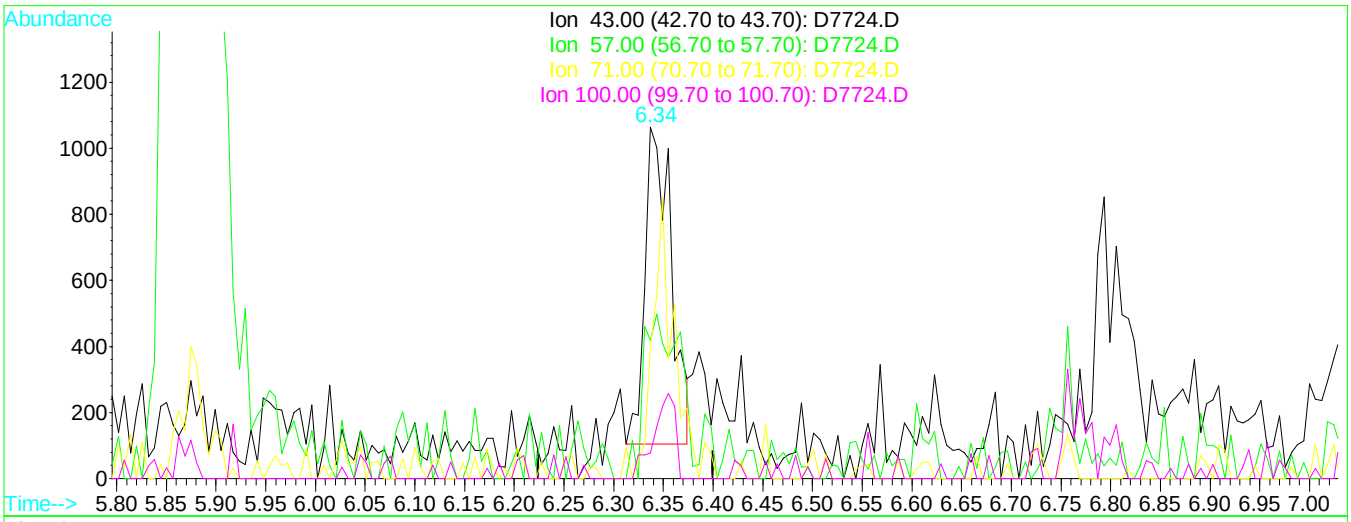
Poor integration.

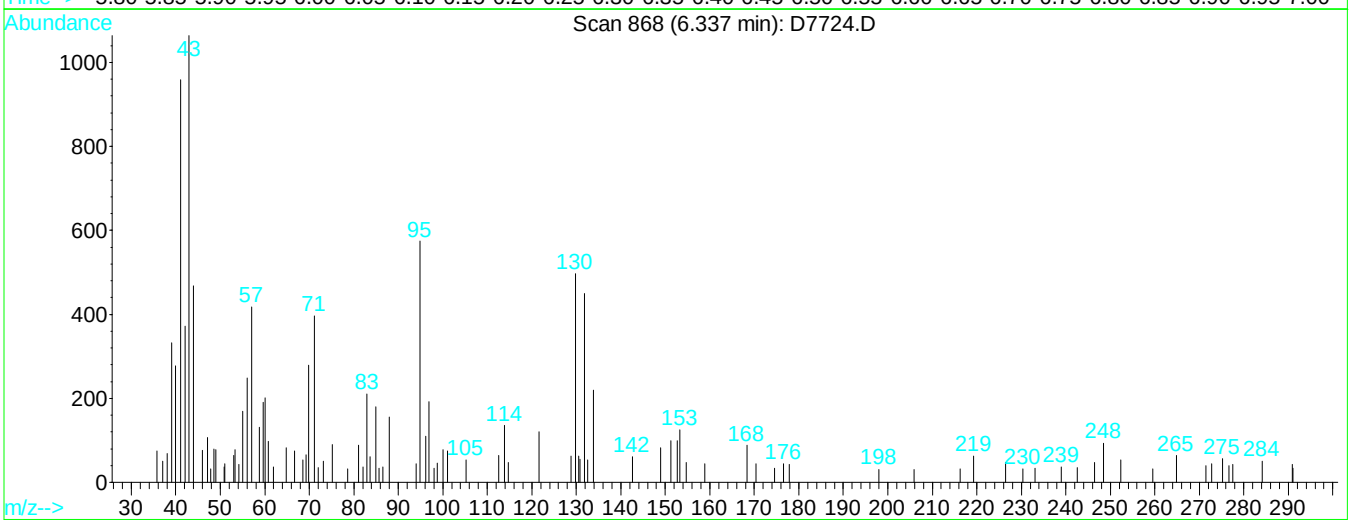
08/25/17

Quantitation Report (Qedit)

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

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:

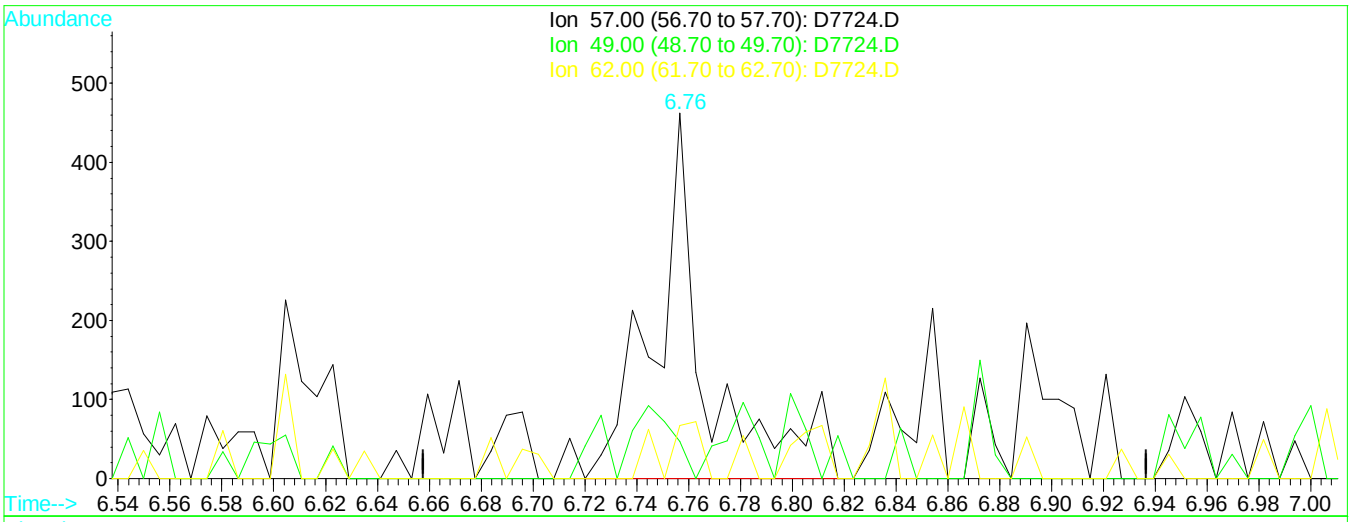
Before

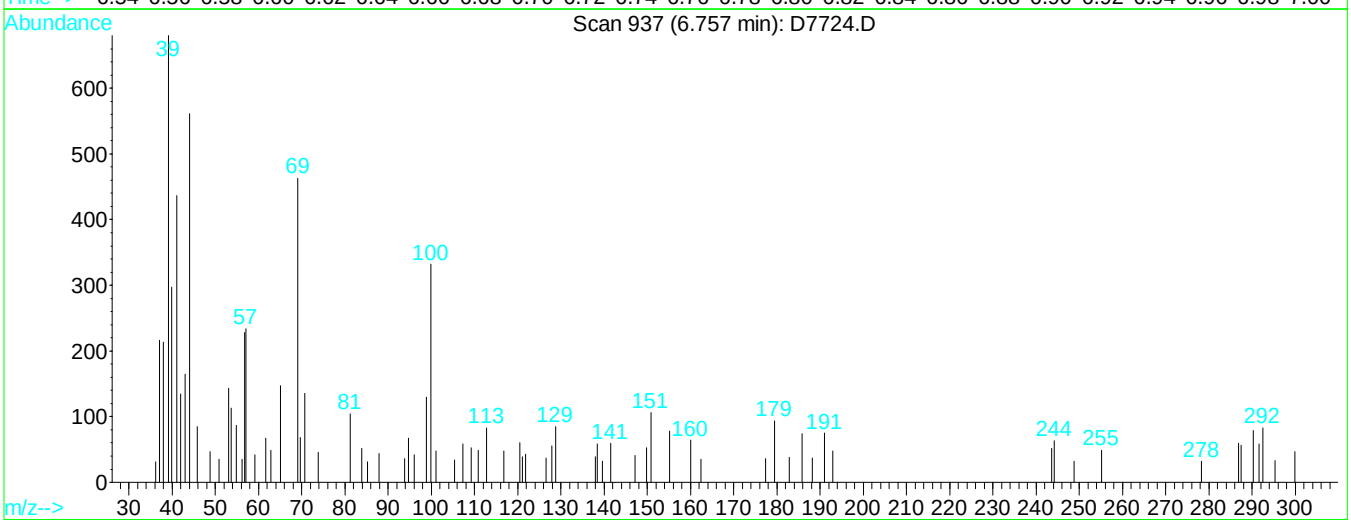
08/25/17

Quantitation Report (Qedit)

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

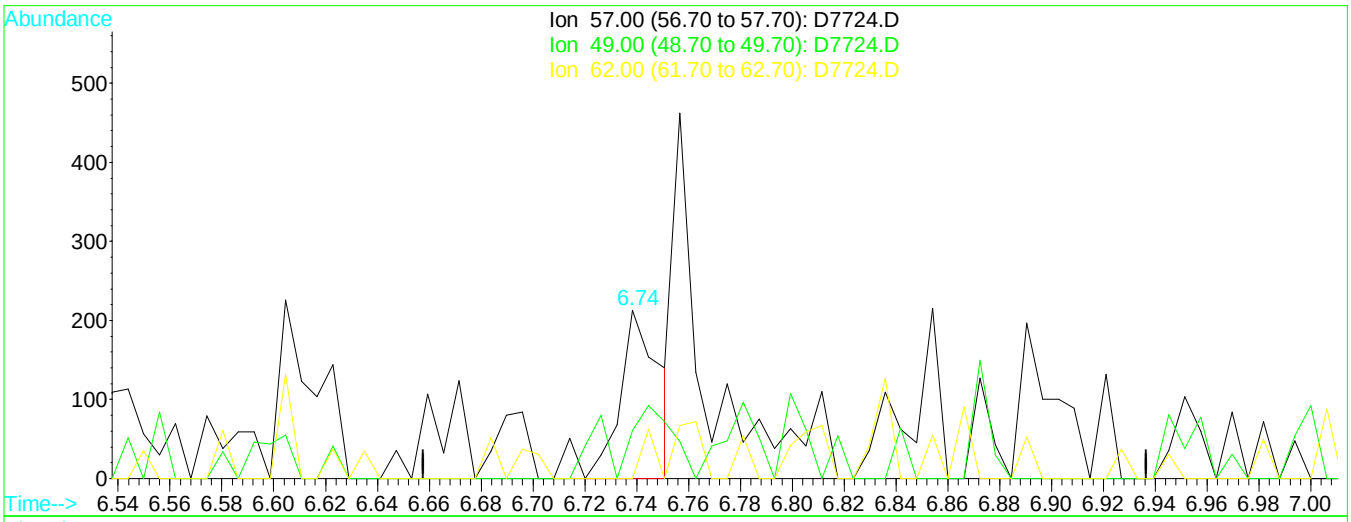
Peak not found.

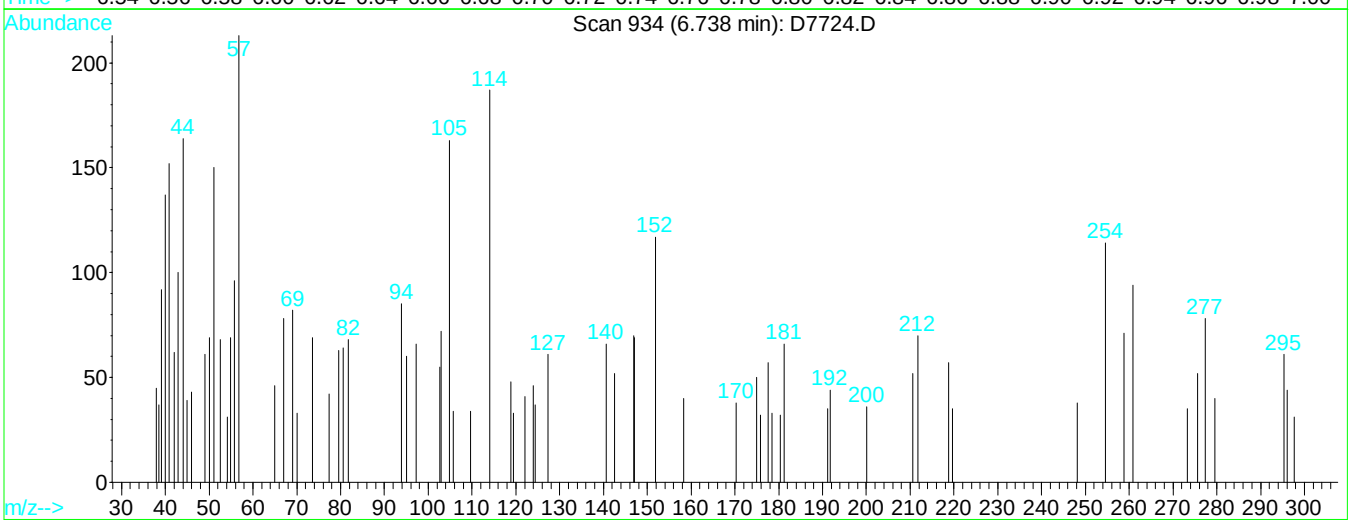
08/25/17

Quantitation Report (Qedit)

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

6.74min 1.58ug/L

response 221

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

Manual Integration:

Before

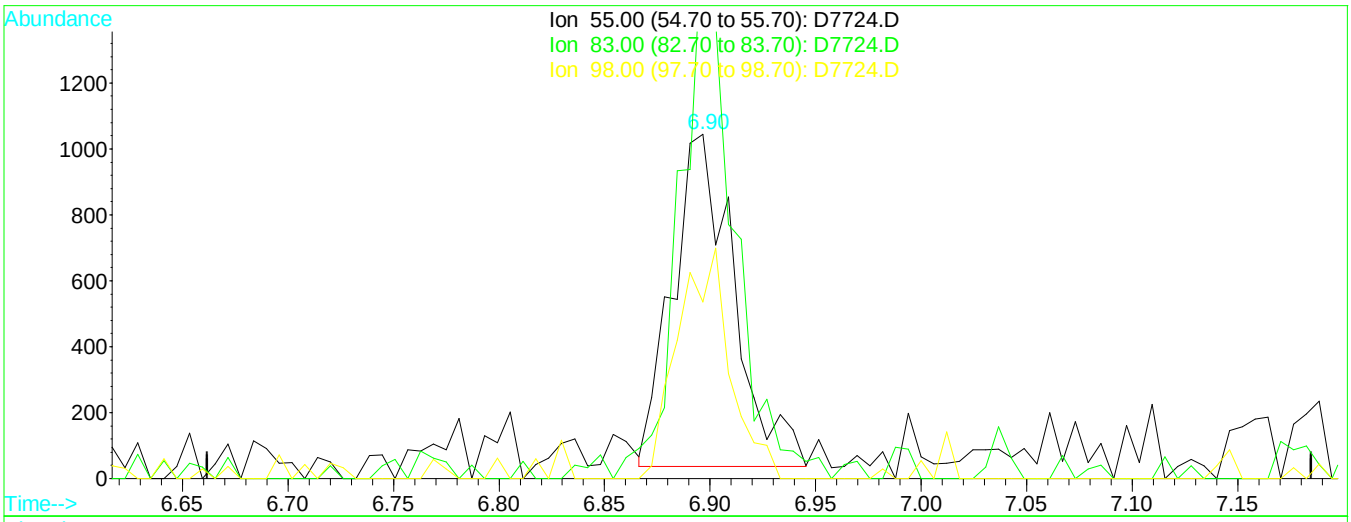
08/25/17

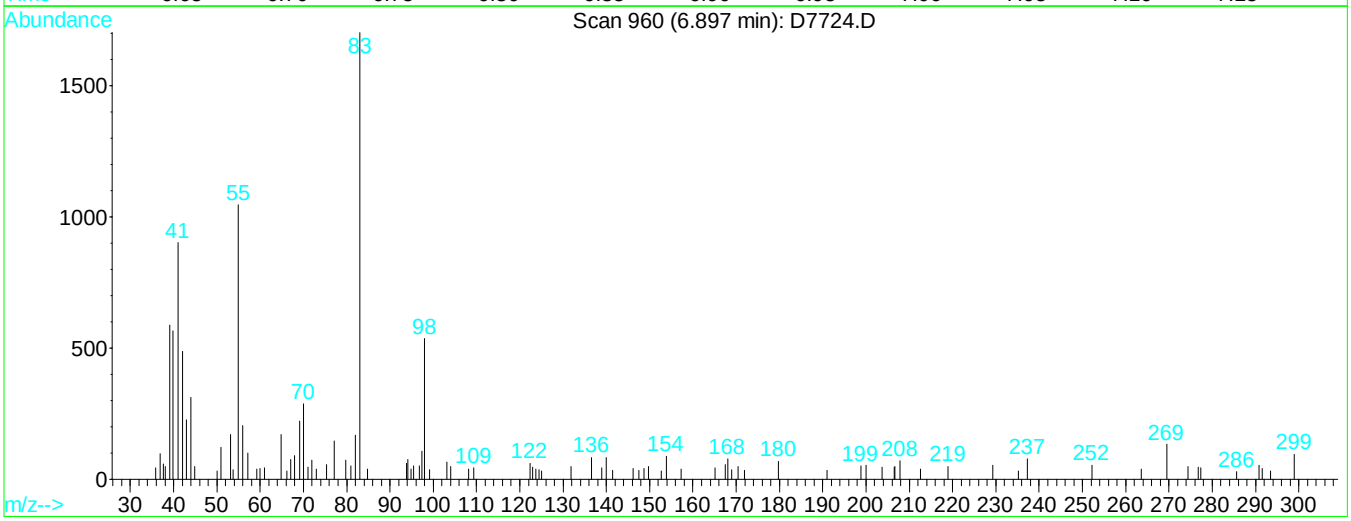
D7724.D W082417.M Fri Aug 25 09:53:27 2017

1st DL 08/25/17
2nd FW 08/26/17

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

(59) Methylcyclohexane (P)

6.90min 0.95ug/L m

response 2045

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

Manual Integration:

After

Poor integration.

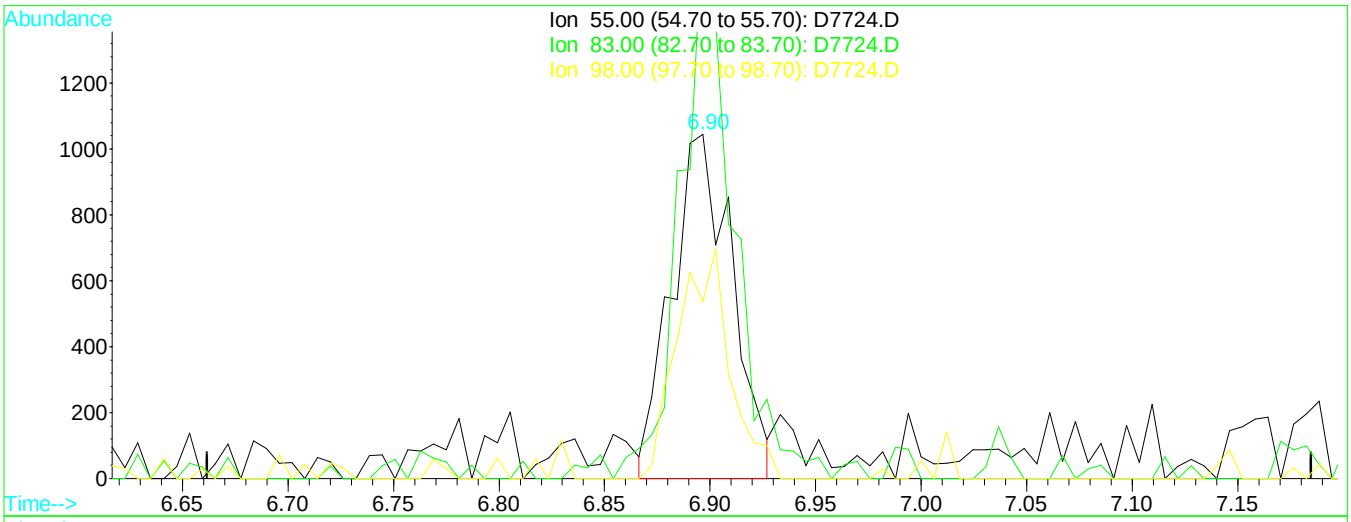
08/25/17

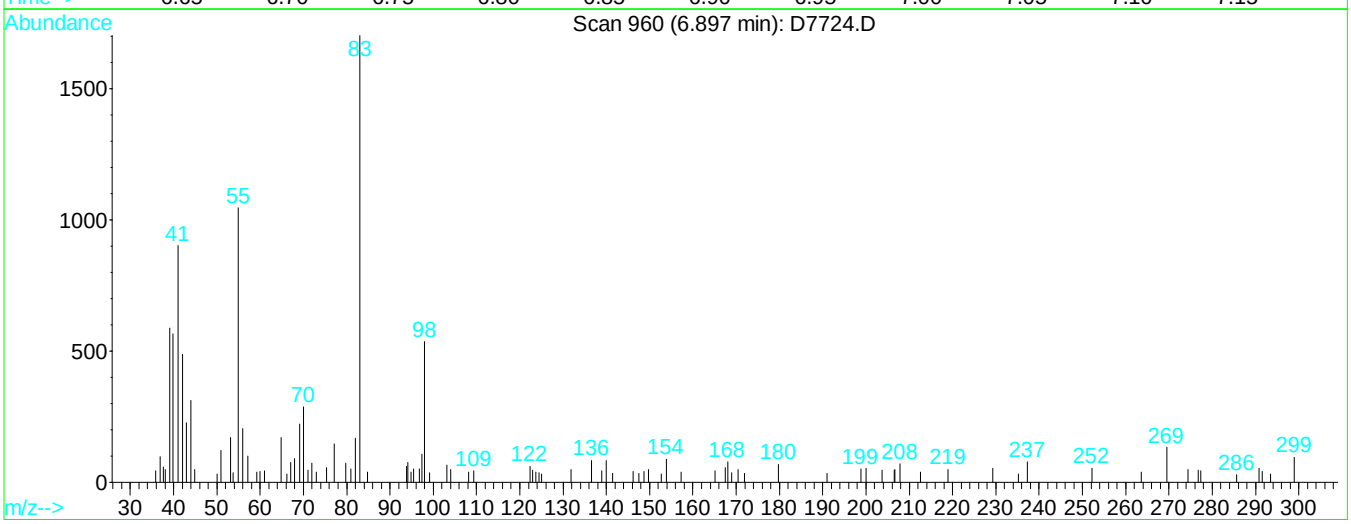
D7724.D W082417.M Fri Aug 25 09:55:05 2017

Quantitation Report (Qedit)

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)

6.90min 0.97ug/L

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

Manual Integration:

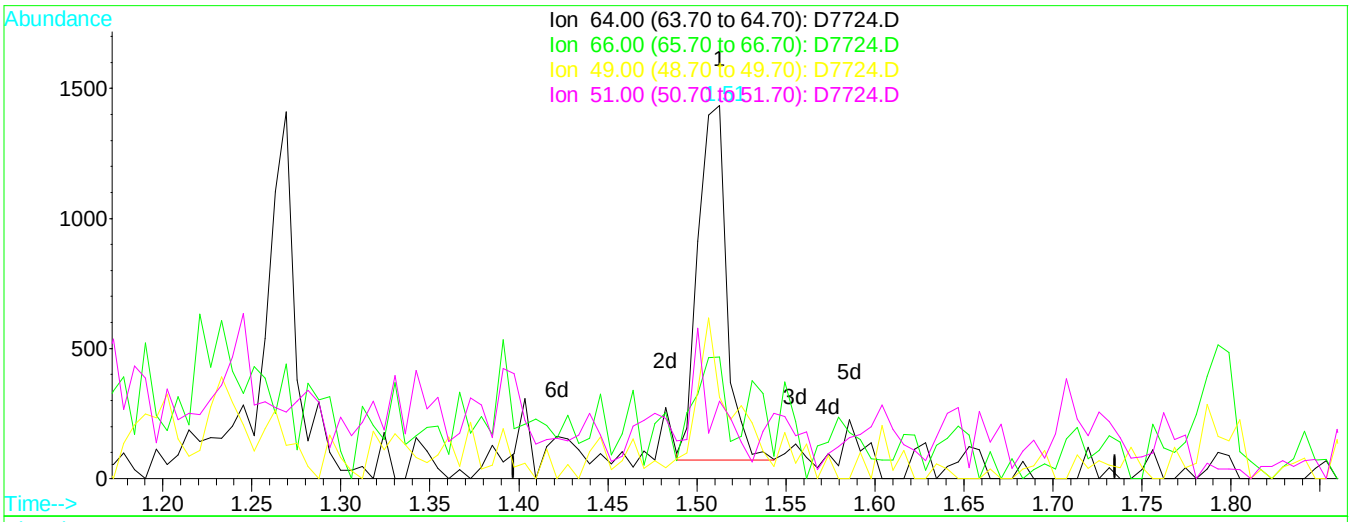
Before

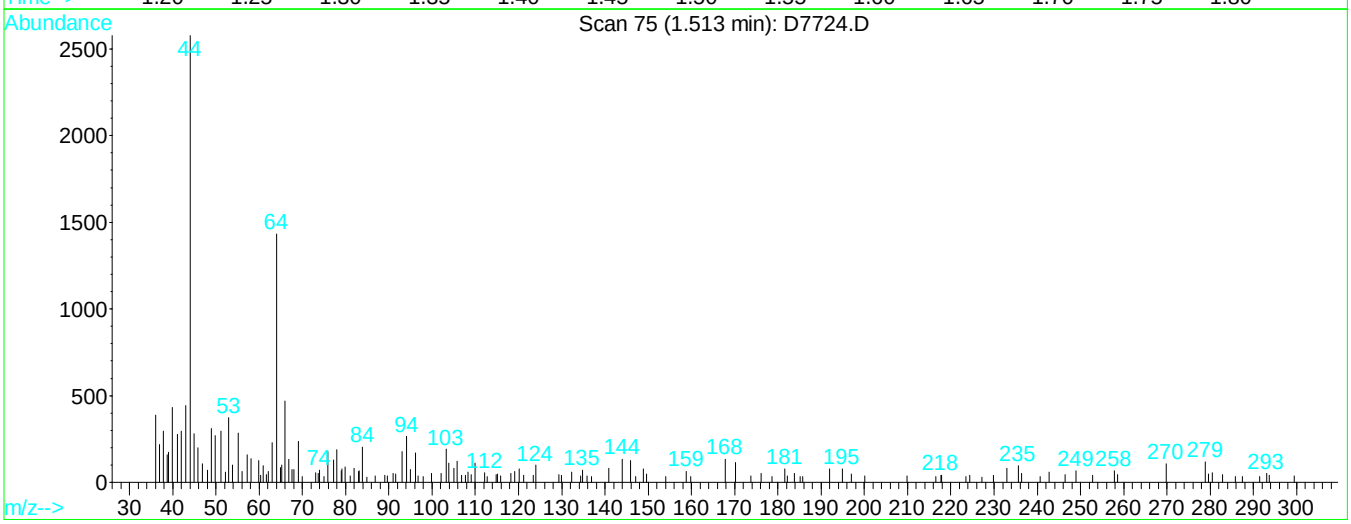
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

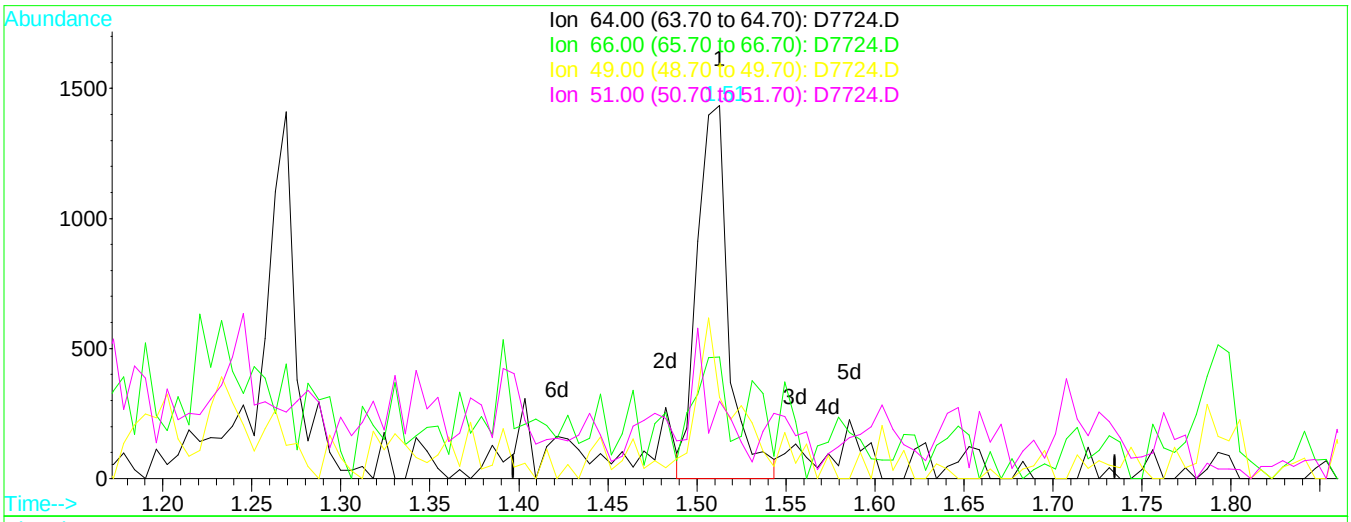
Poor integration.

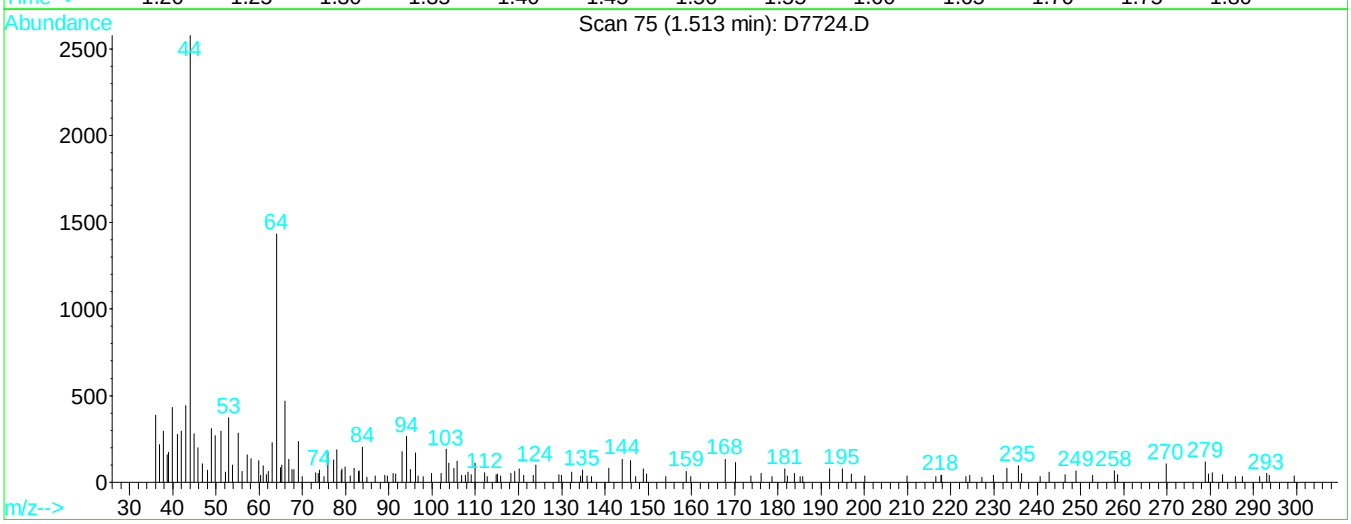
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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)

1.51min 1.09ug/L

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

Manual Integration:

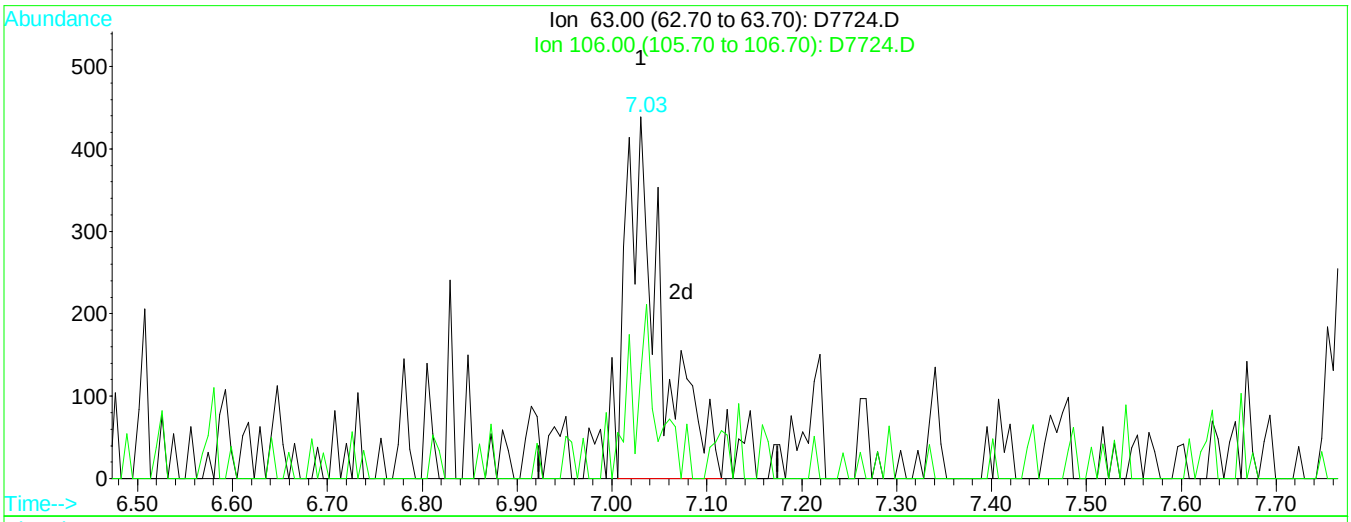
Before

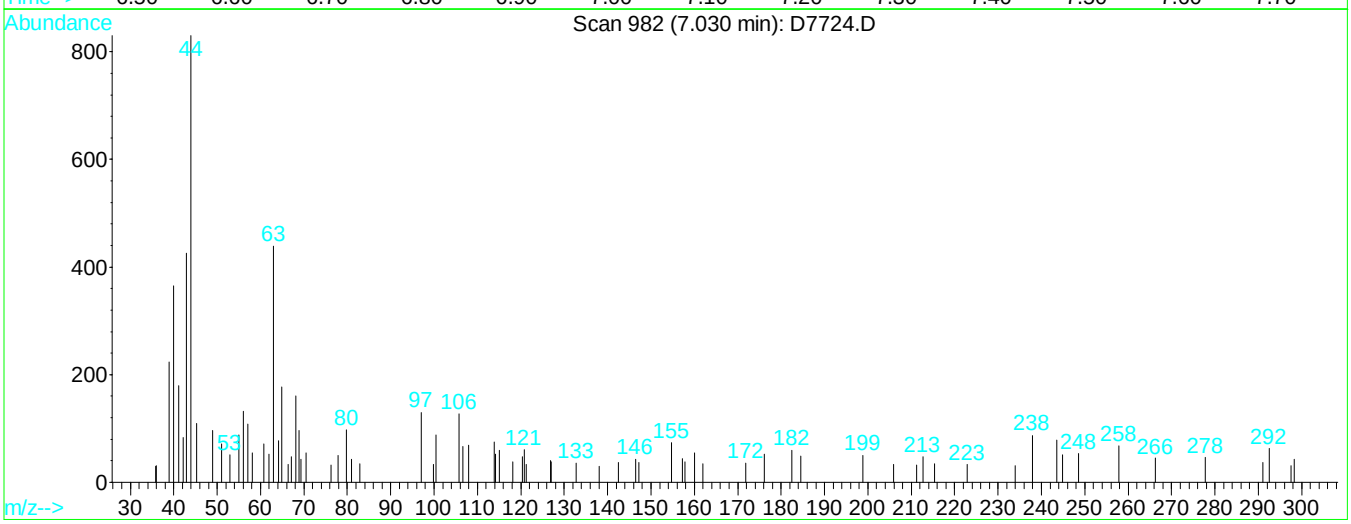
08/25/17

Quantitation Report (Qedit)

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

7.03min 1.00ug/L m

response 1103

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

Manual Integration:

After

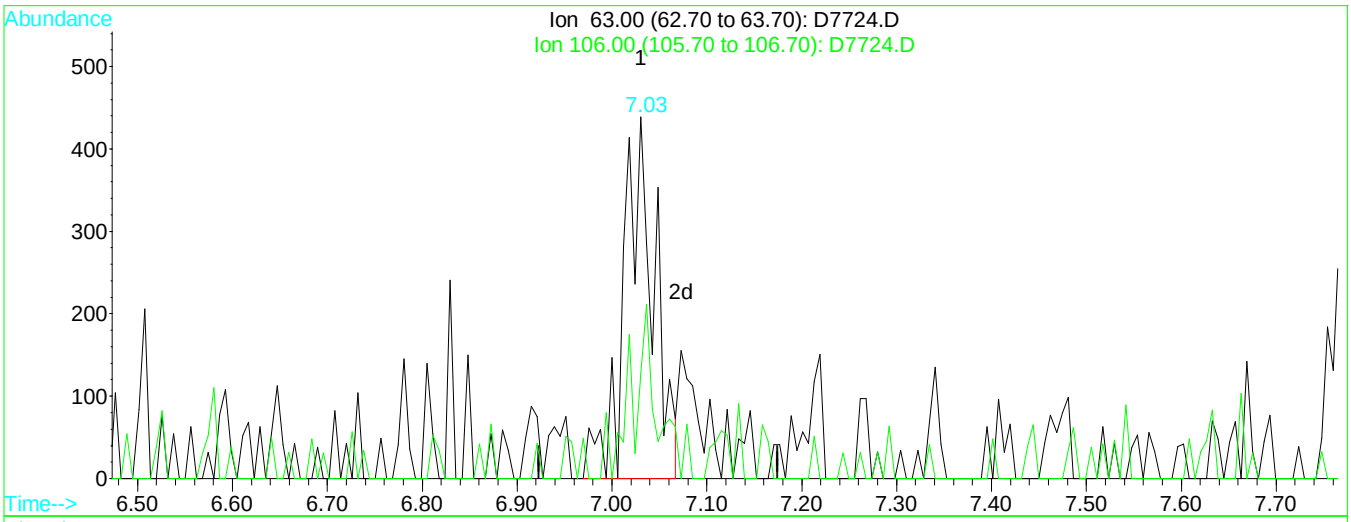
Split Peak.

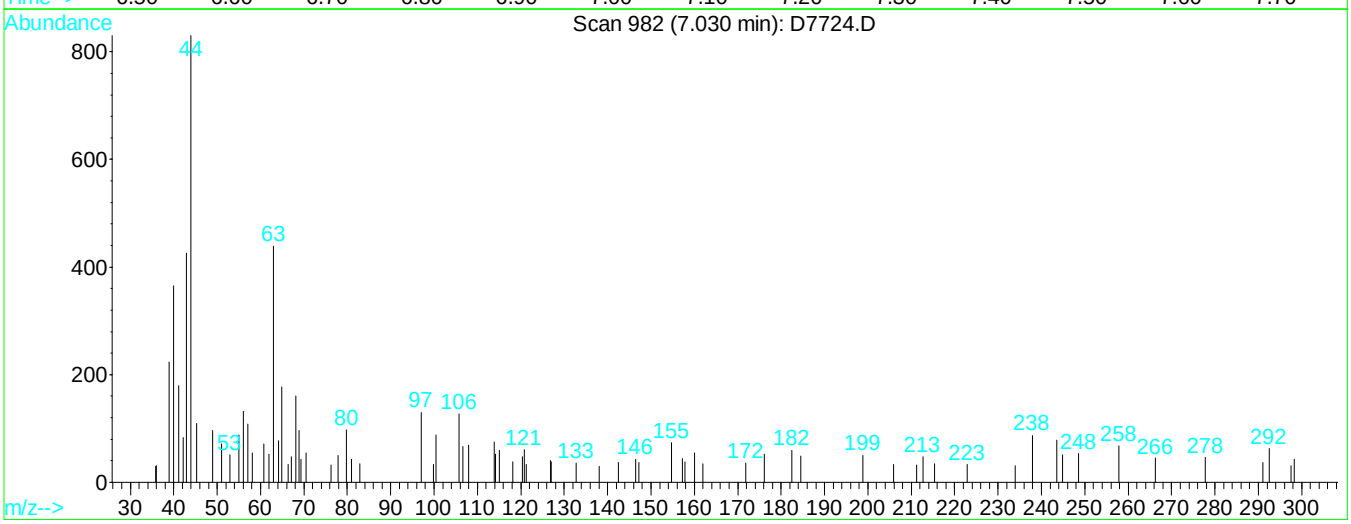
08/25/17

Quantitation Report (Qedit)

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

7.03min 0.90ug/L

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

Manual Integration:

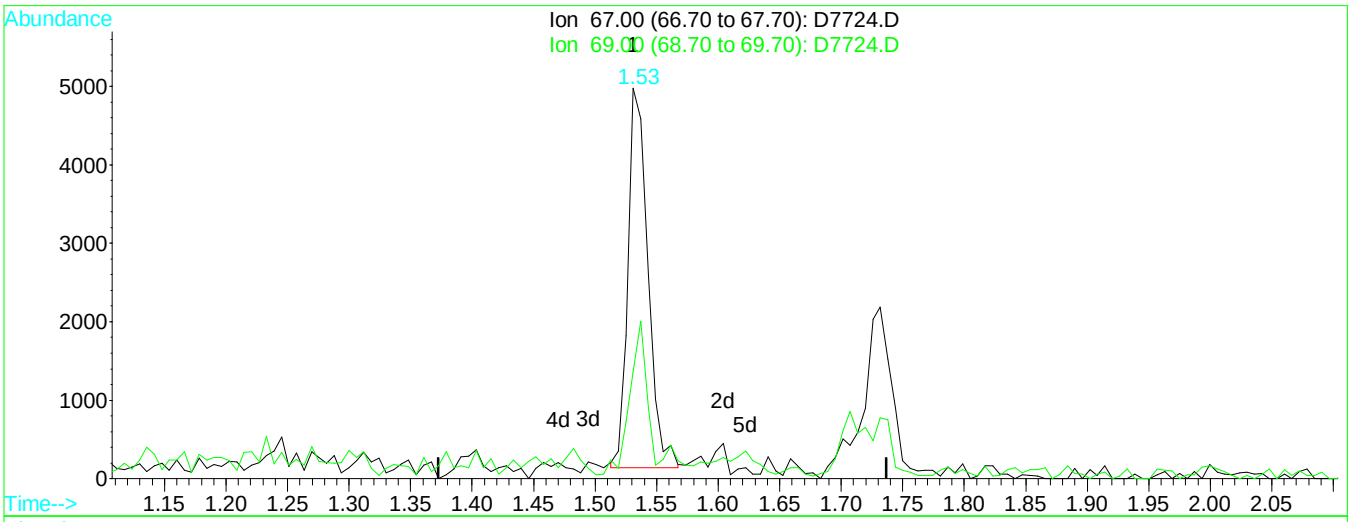
Before

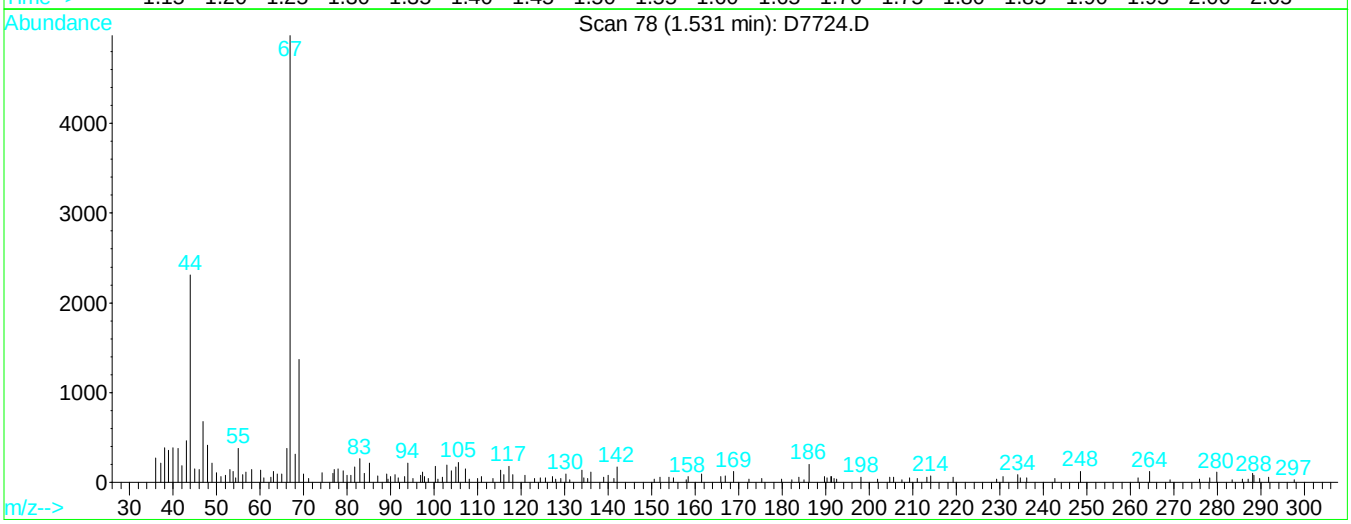
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

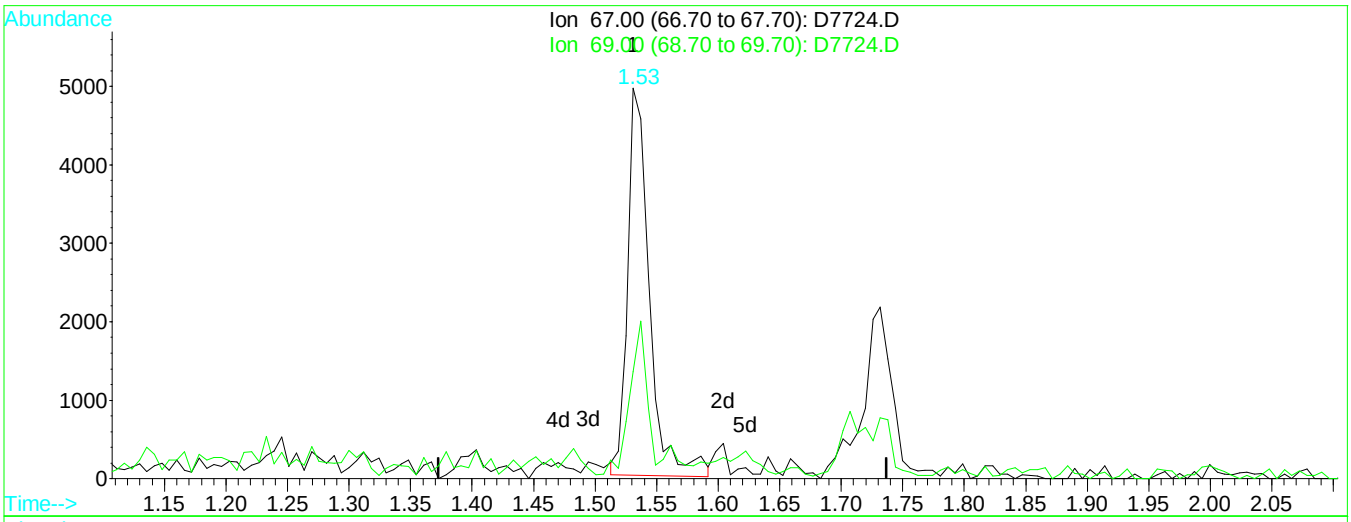
Poor integration.

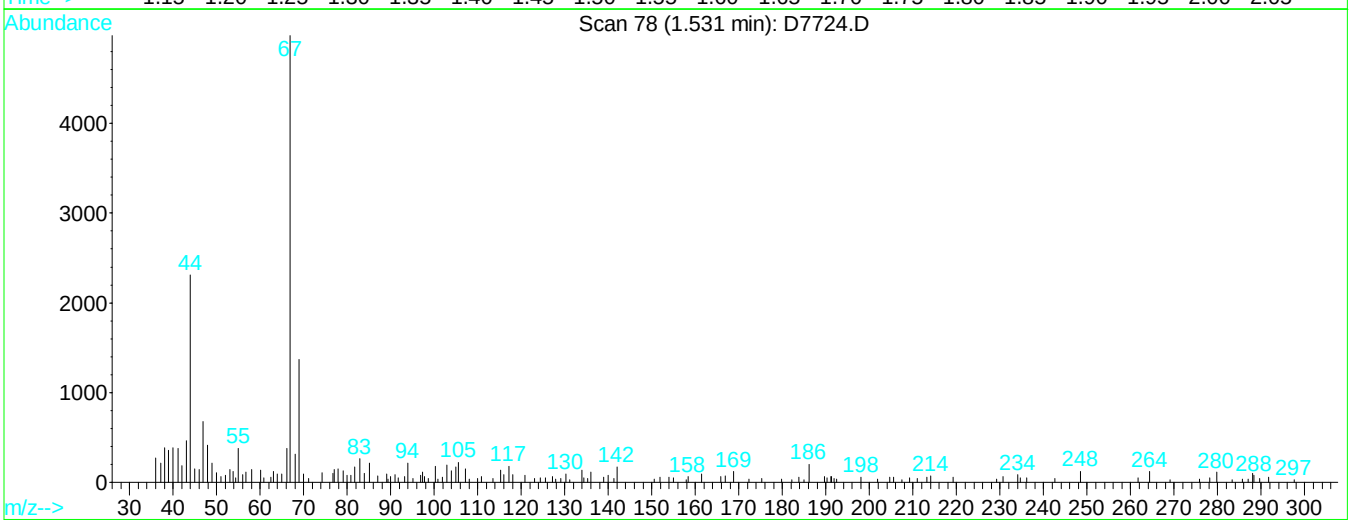
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

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:

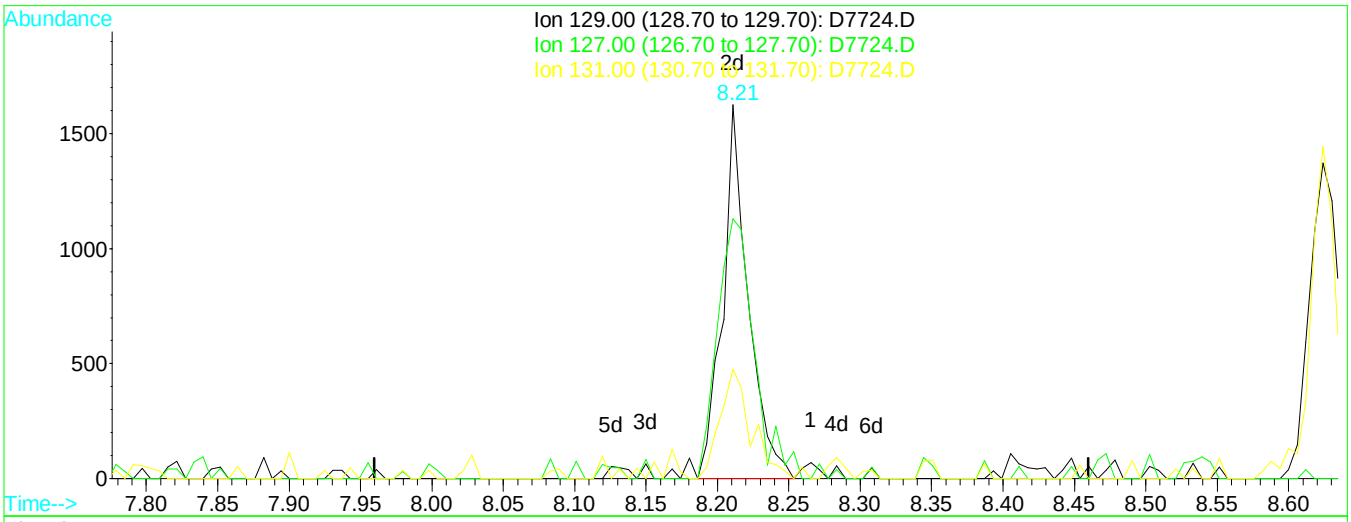
Before

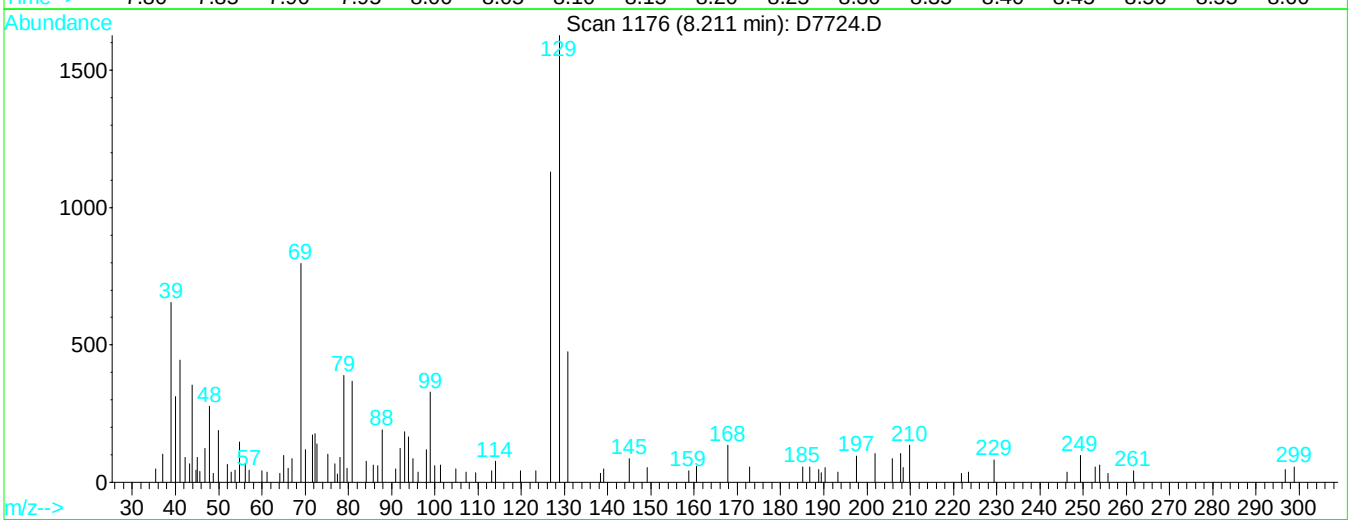
08/25/17

Quantitation Report (Qedit)

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)

8.21min 0.90ug/L m

response 2017

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

Manual Integration:

After

Peak not found.

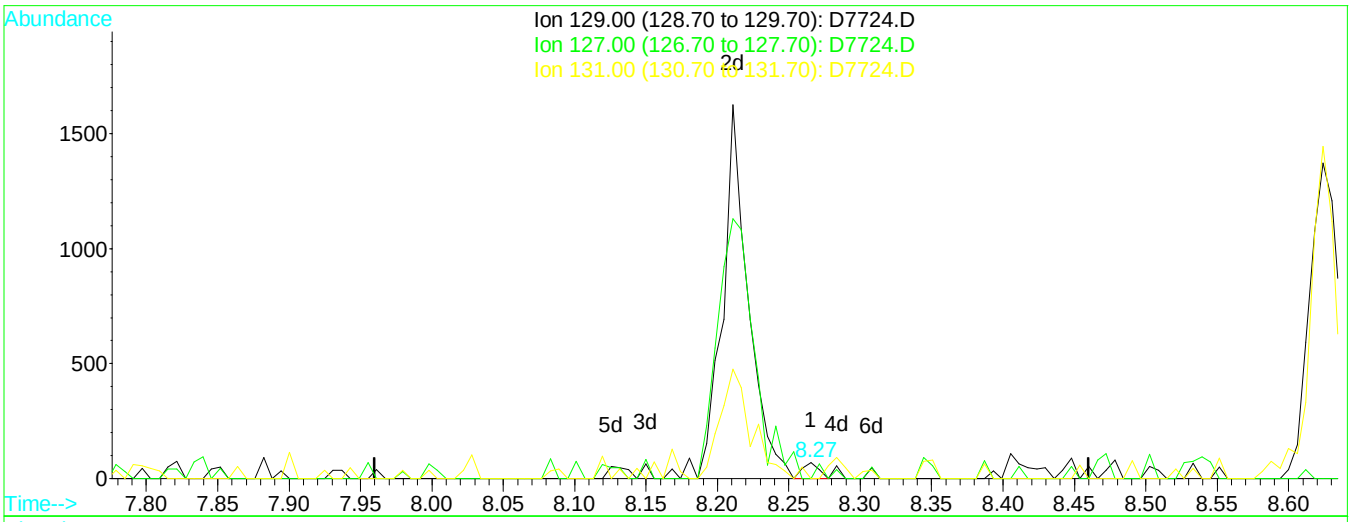
08/25/17

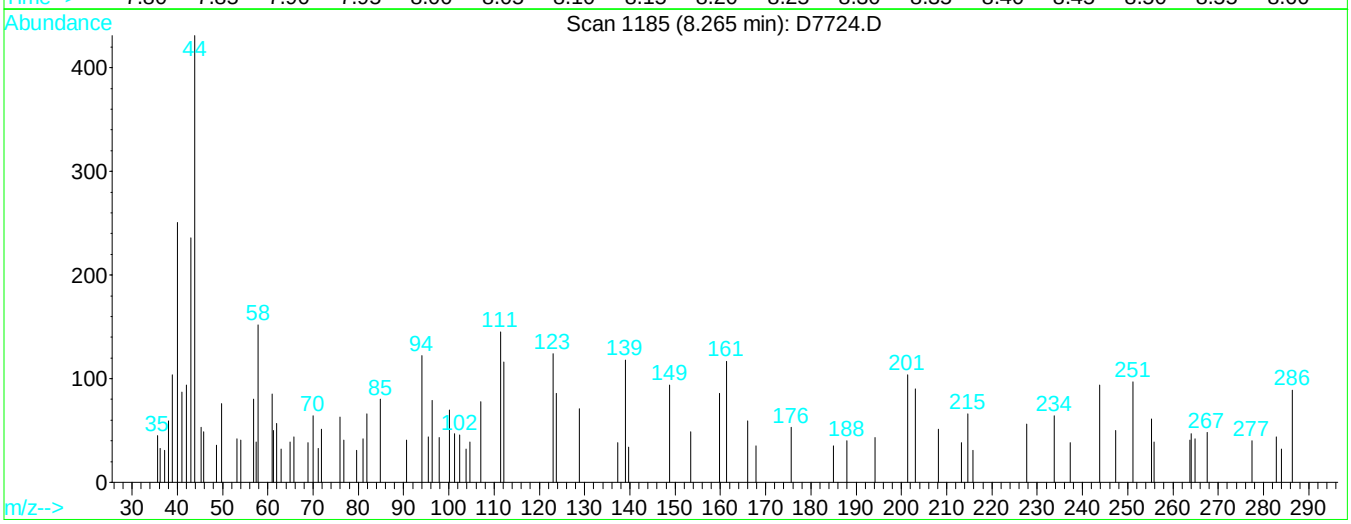
D7724.D W082417.M Fri Aug 25 09:57:37 2017

Quantitation Report (Qedit)

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)

8.27min 0.03ug/L

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

Manual Integration:

Before

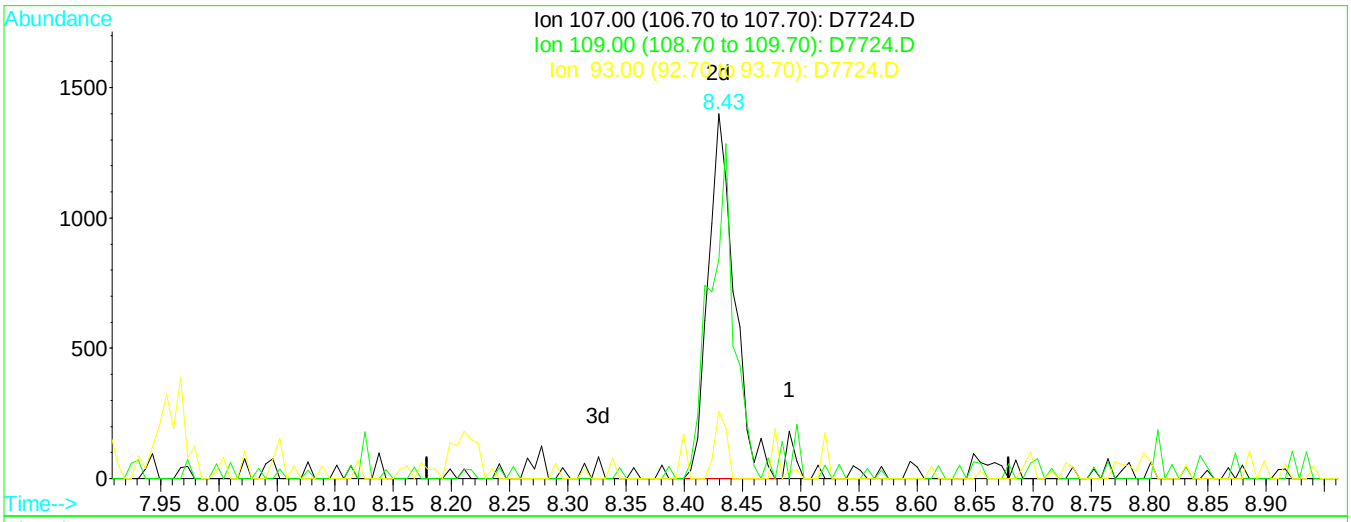
08/25/17

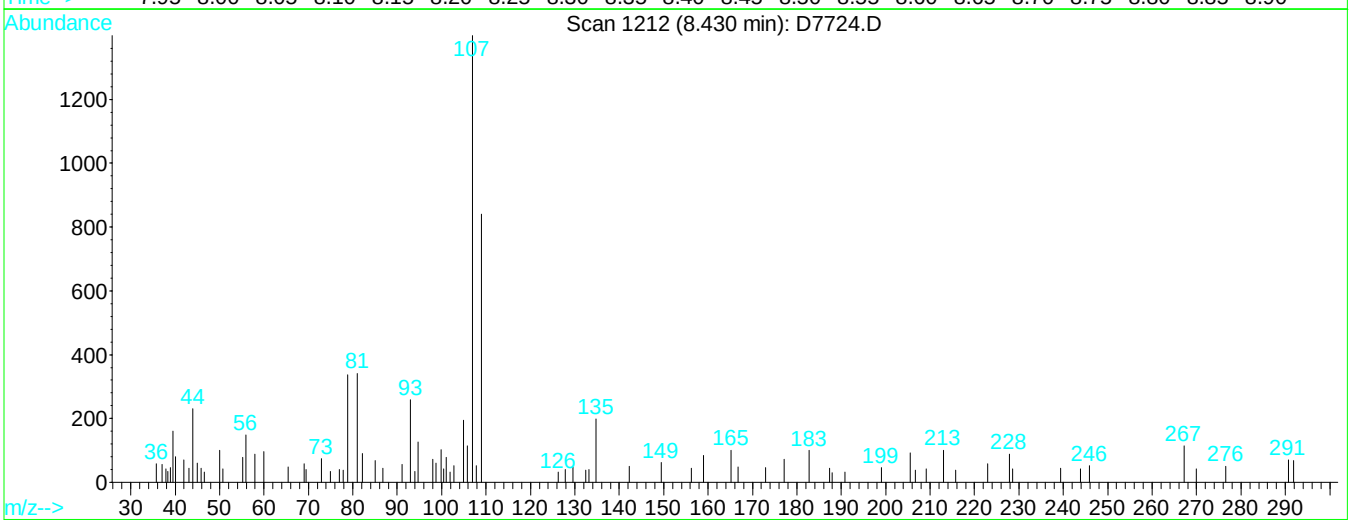
D7724.D W082417.M Fri Aug 25 09:57:30 2017

1st DL 08/25/17
2nd FW 08/26/17

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)

8.43min 1.13ug/L m

response 2214

Ion	Exp%	Act%
107.00	100	100
109.00	96.90	3.48#
93.00	7.60	1.08
0.00	0.00	0.00

Manual Integration:

After

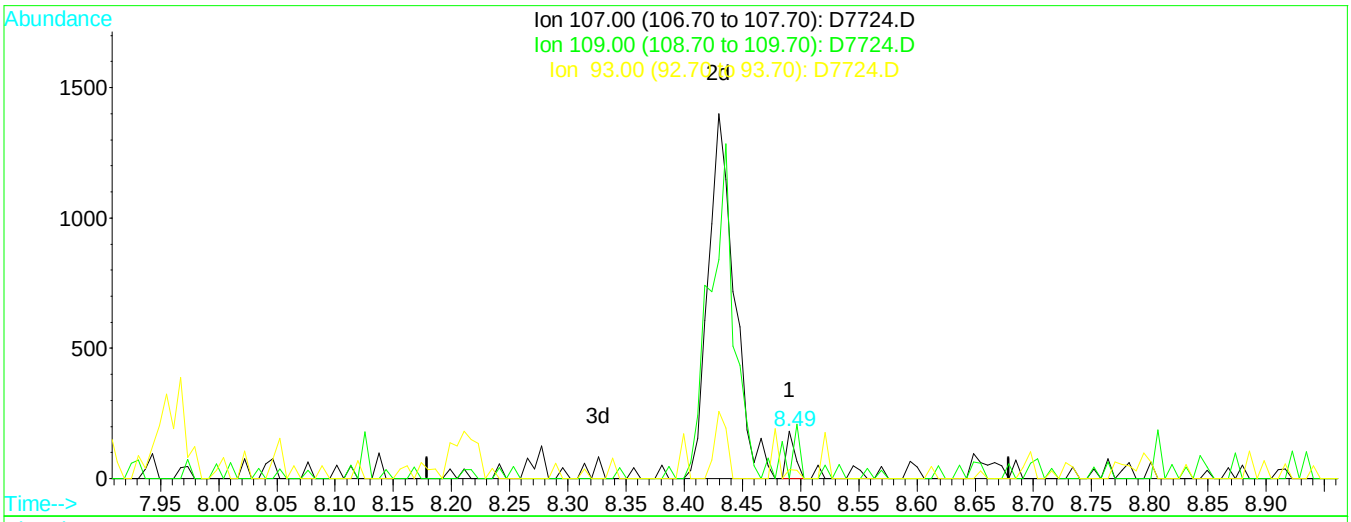
Peak not found.

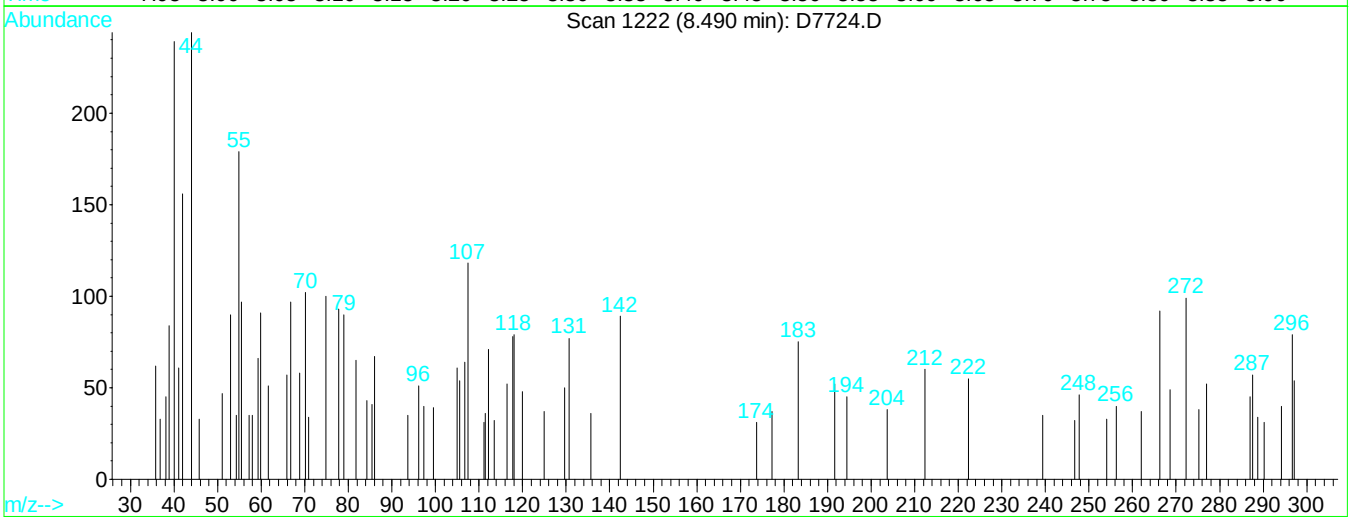
08/25/17

Quantitation Report (Qedit)

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)

8.49min 0.05ug/L

response 91

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

Manual Integration:

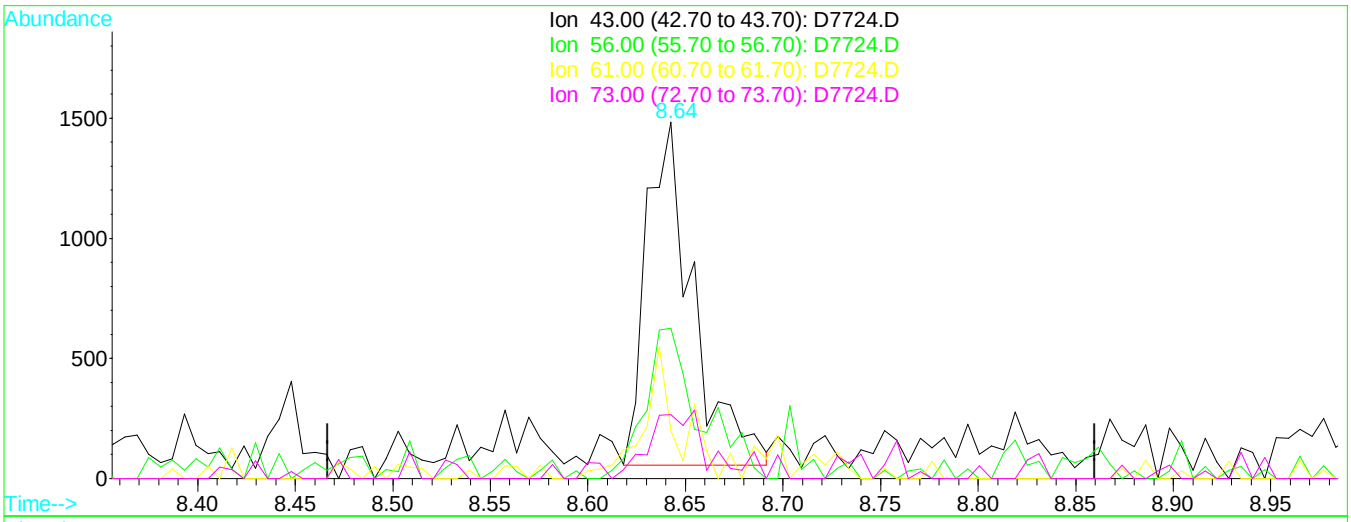
Before

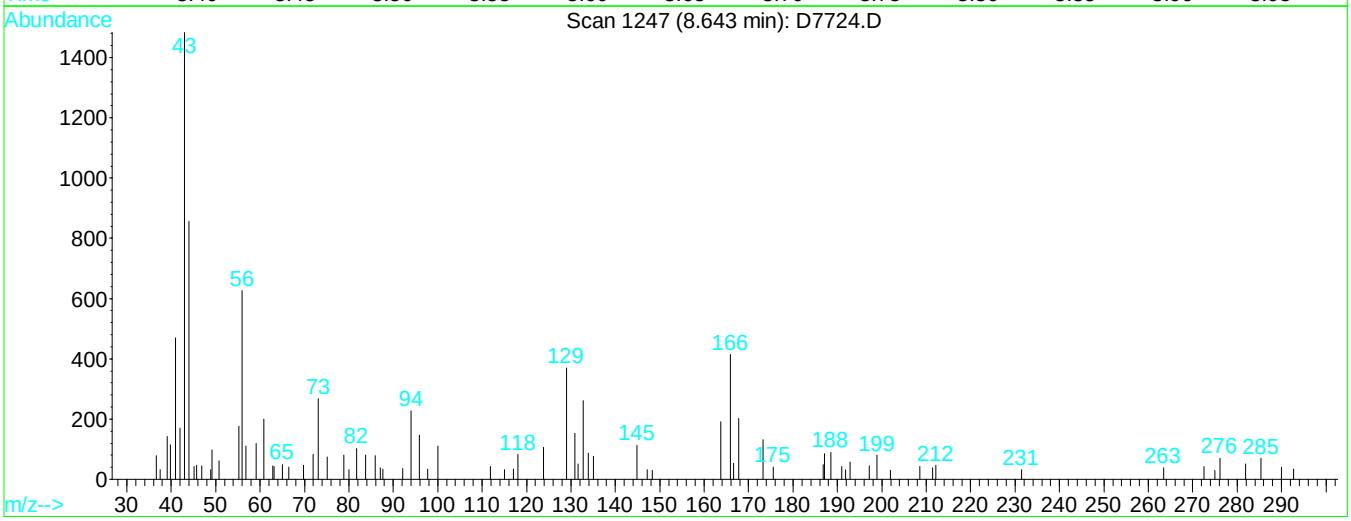
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

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.

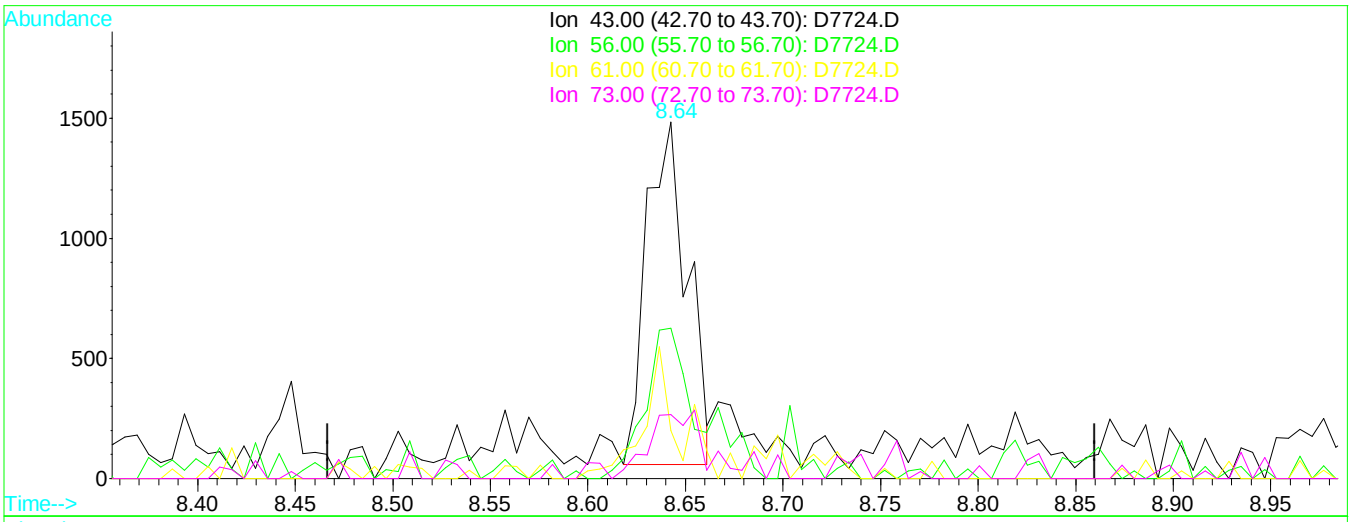
08/25/17

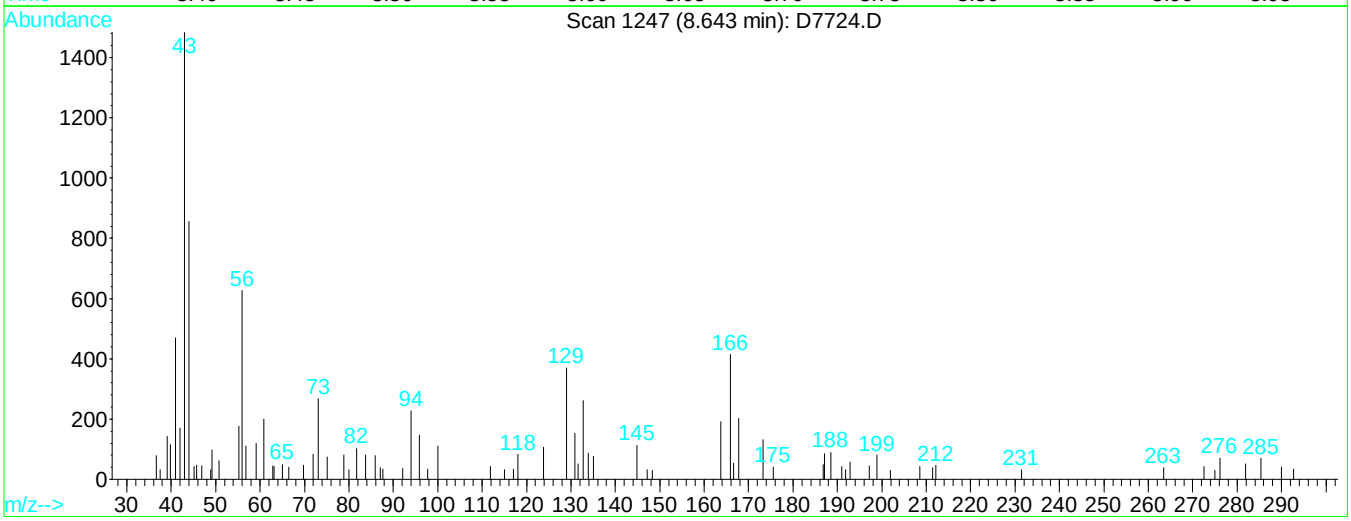
D7724.D W082417.M Fri Aug 25 09:58:45 2017

1st DL 08/25/17
2nd FW 08/26/17

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

8.64min 0.83ug/L

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

Manual Integration:

Before

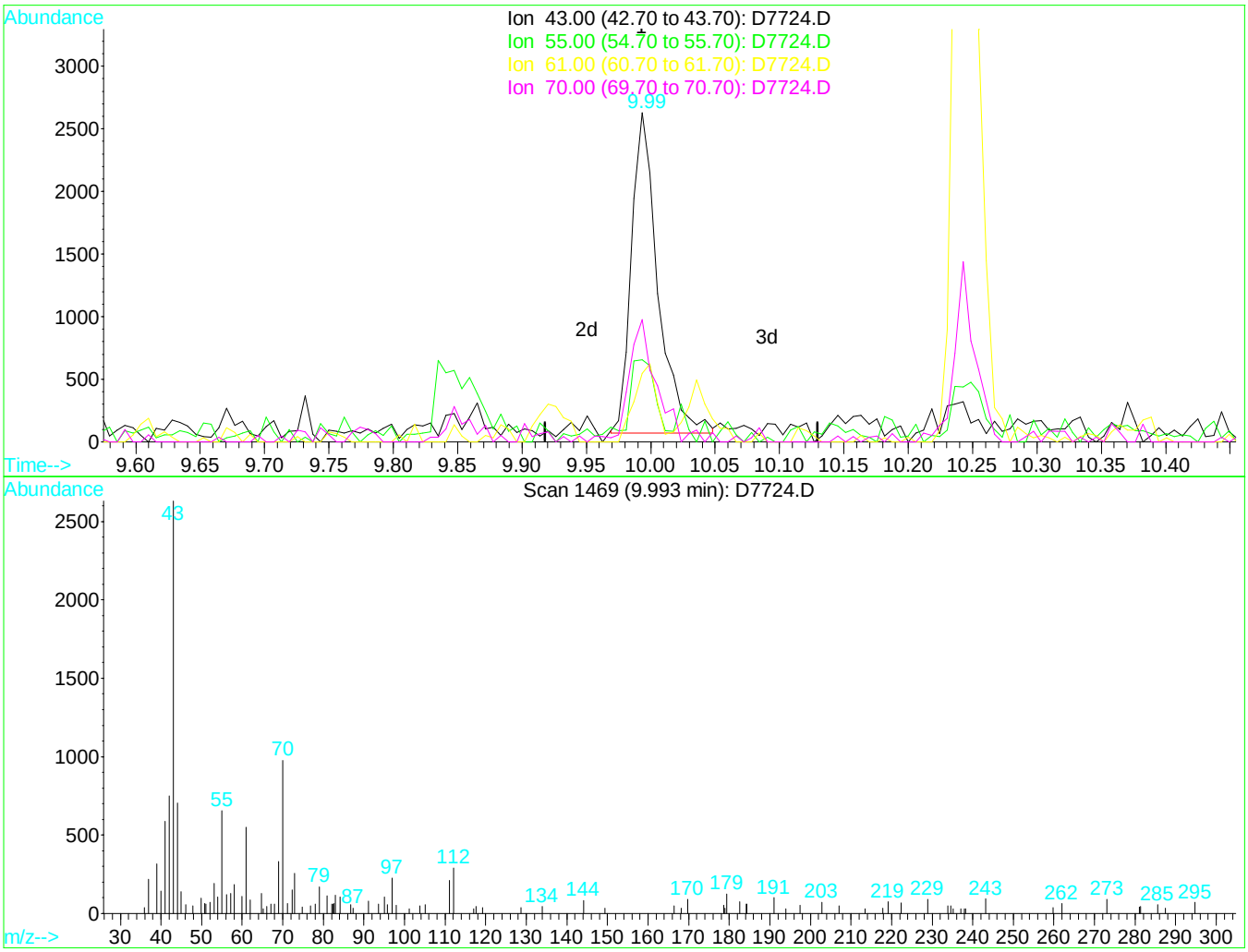
08/25/17

D7724.D W082417.M Fri Aug 25 09:58:21 2017

Quantitation Report (Qedit)

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

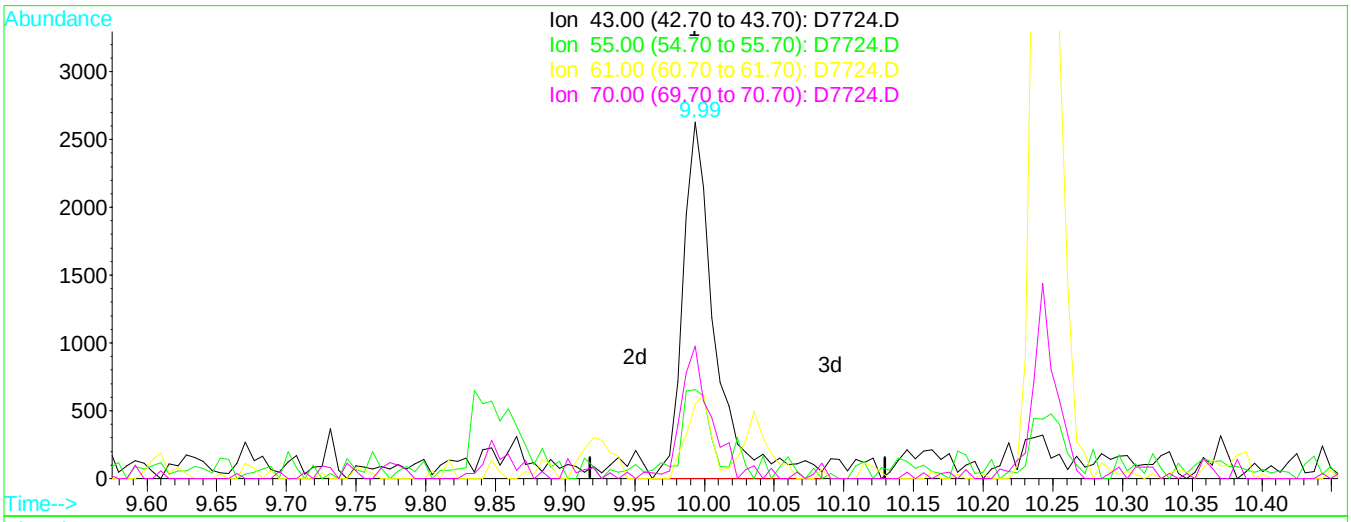
Poor integration.

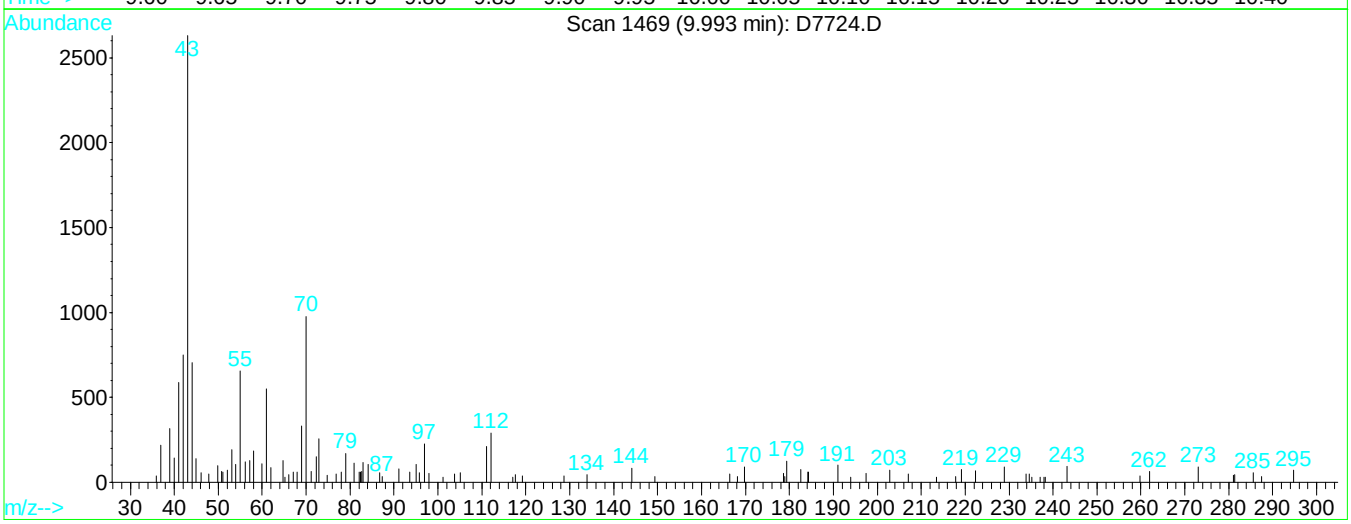
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

9.99min 1.22ug/L

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

Manual Integration:

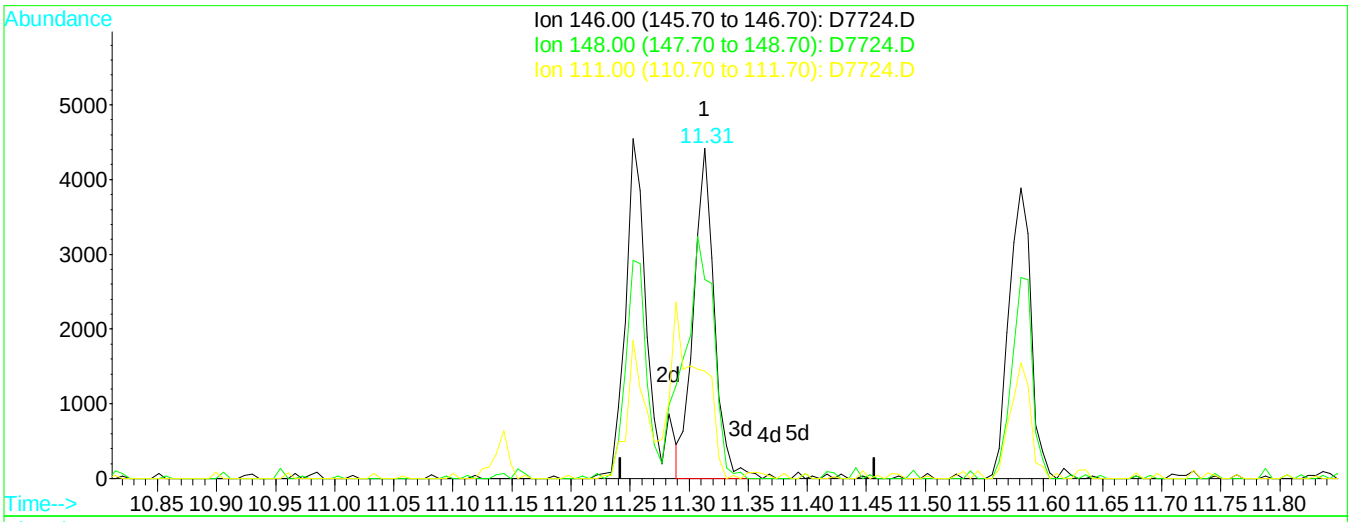
Before

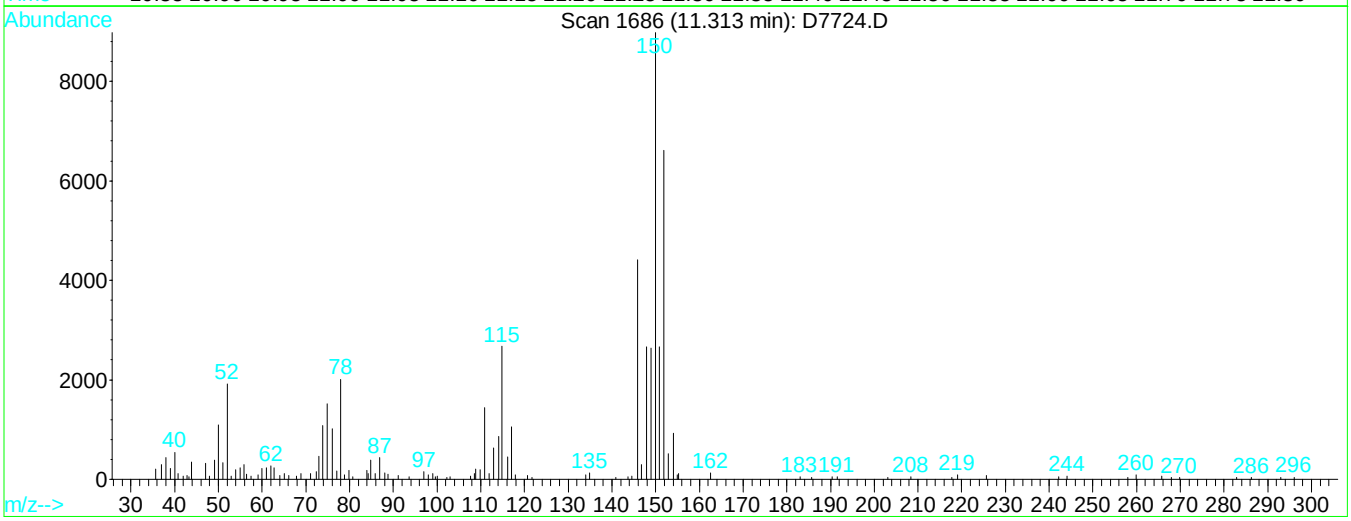
08/25/17

Quantitation Report (Qedit)

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)

11.31min 1.17ug/L m

response 5404

Ion	Exp%	Act%
146.00	100	100
148.00	66.20	101.26#
111.00	37.30	0.35#
0.00	0.00	0.00

Manual Integration:

After

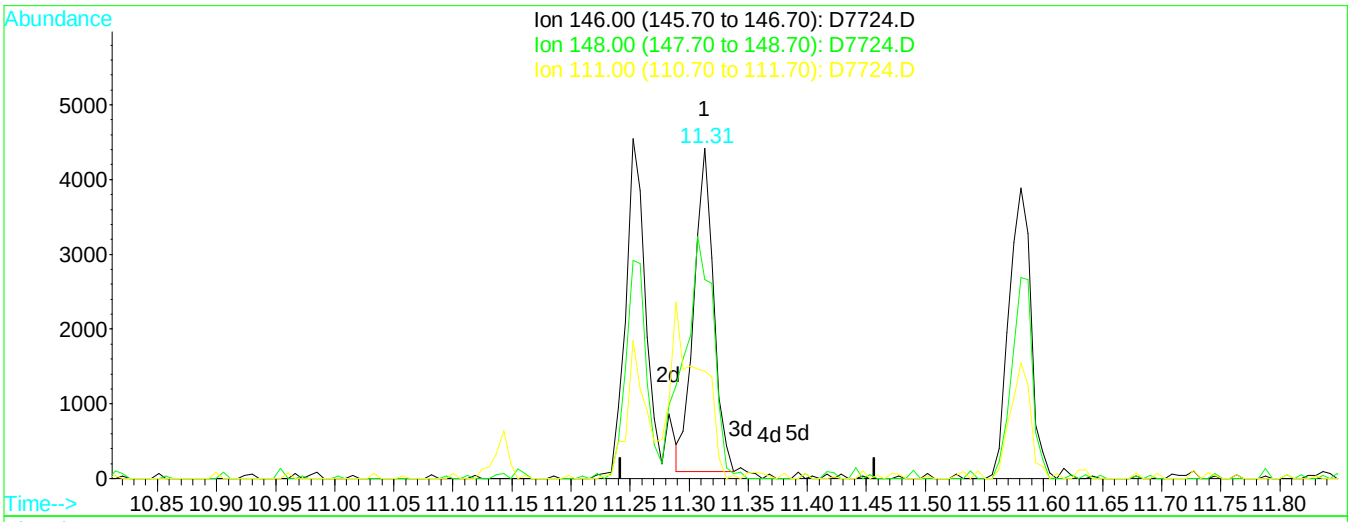
Poor integration.

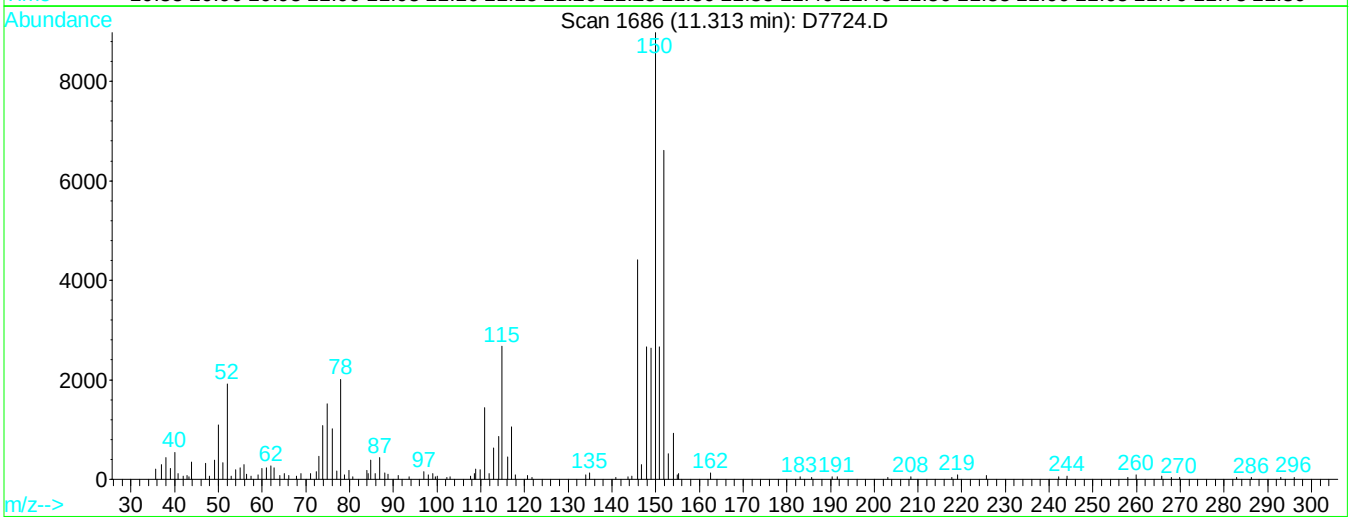
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

(99) 1,4-Dclbenz (P)

11.31min 1.09ug/L

response 5022

Ion	Exp%	Act%
146.00	100	100
148.00	66.20	108.96#
111.00	37.30	0.38#
0.00	0.00	0.00

Manual Integration:

Before

08/25/17

D7724.D W082417.M Fri Aug 25 10:01:45 2017

1st DL 08/25/17
2nd FJ 08/26/17

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 10:02 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						
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) SURR3,Toluene-d8	7.89	98	384477	54.21	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.42%			
86) SURR2,BFB	10.25	95	153450	50.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.06%			
Target Compounds						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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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 10:02 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-Diclpropane	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-Dichloropropane	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-Tcbenzene	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

1st DL 08/25/17
2nd FJ 08/26/17

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 10:02 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

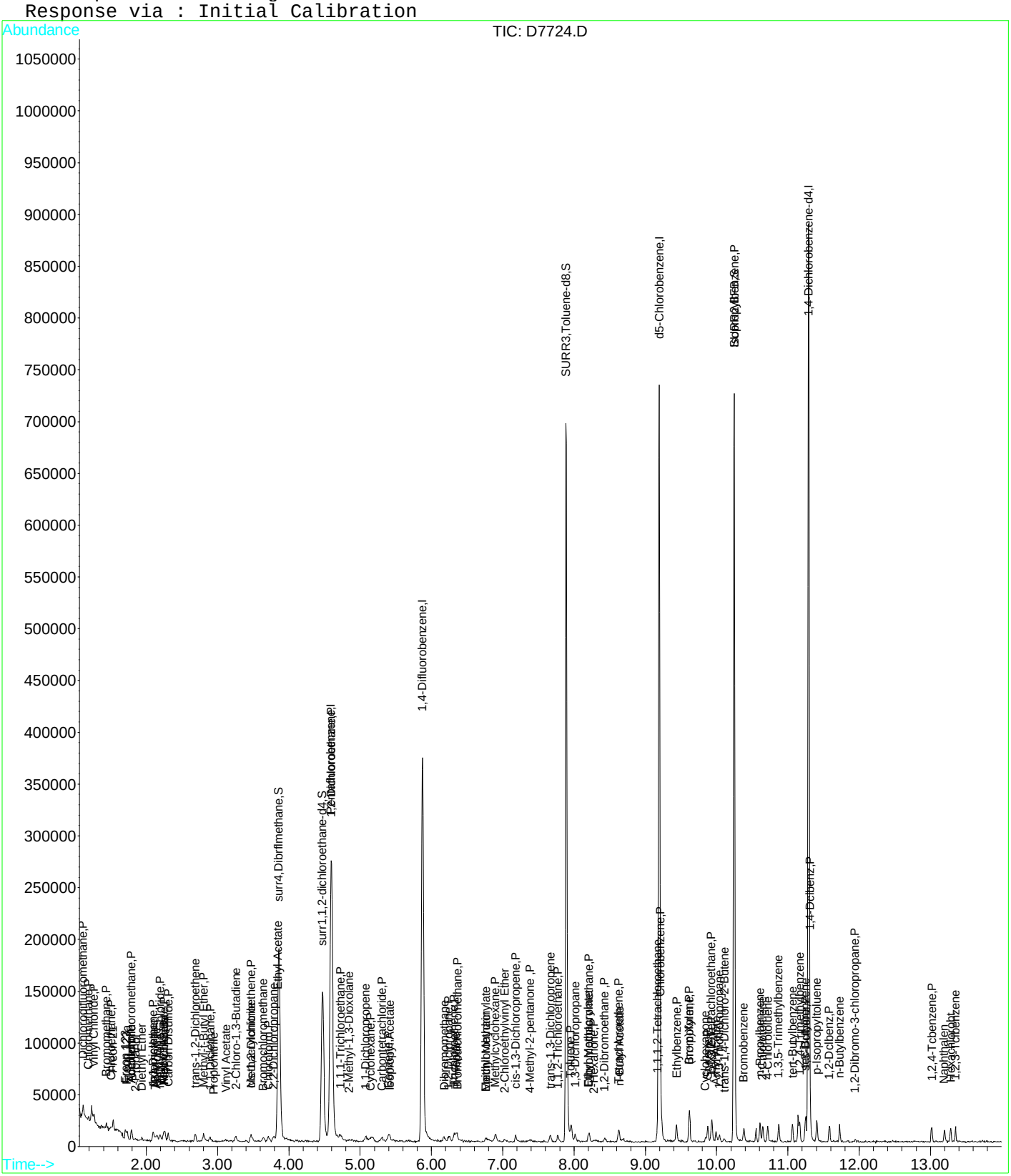
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) 1,2,3-Tclbenzene	13.35	180	2950	1.08	ug/L	86

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

1st DL 08/25/17
2nd FW 08/26/17

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 10:02 2017 Quant Results File: W082417.RES

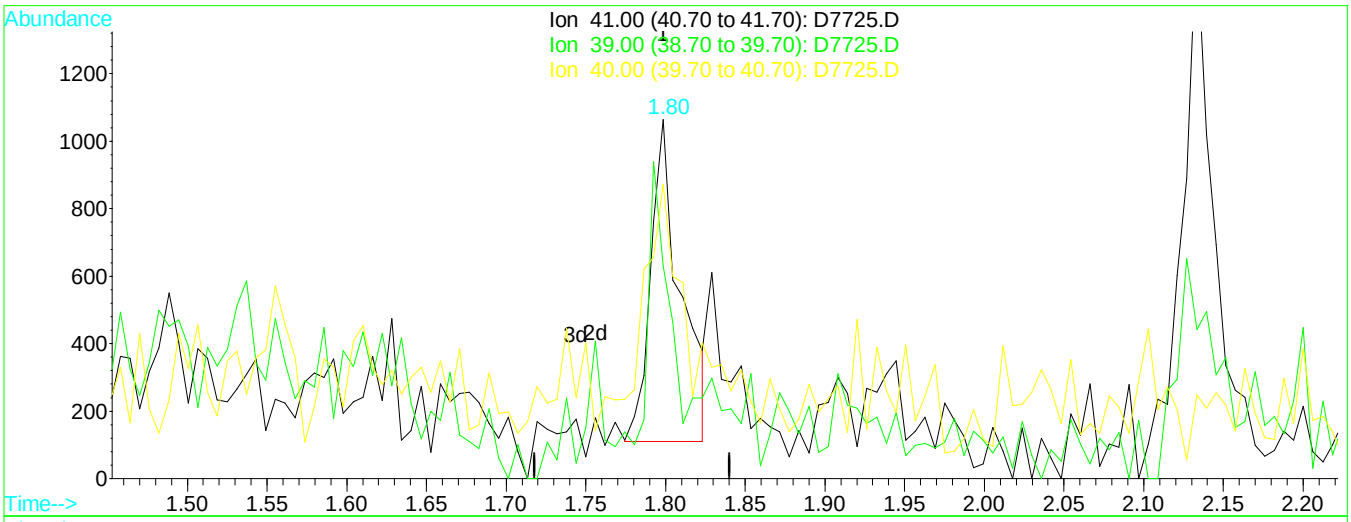
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 10:01:01 2017
Response via : Initial Calibration

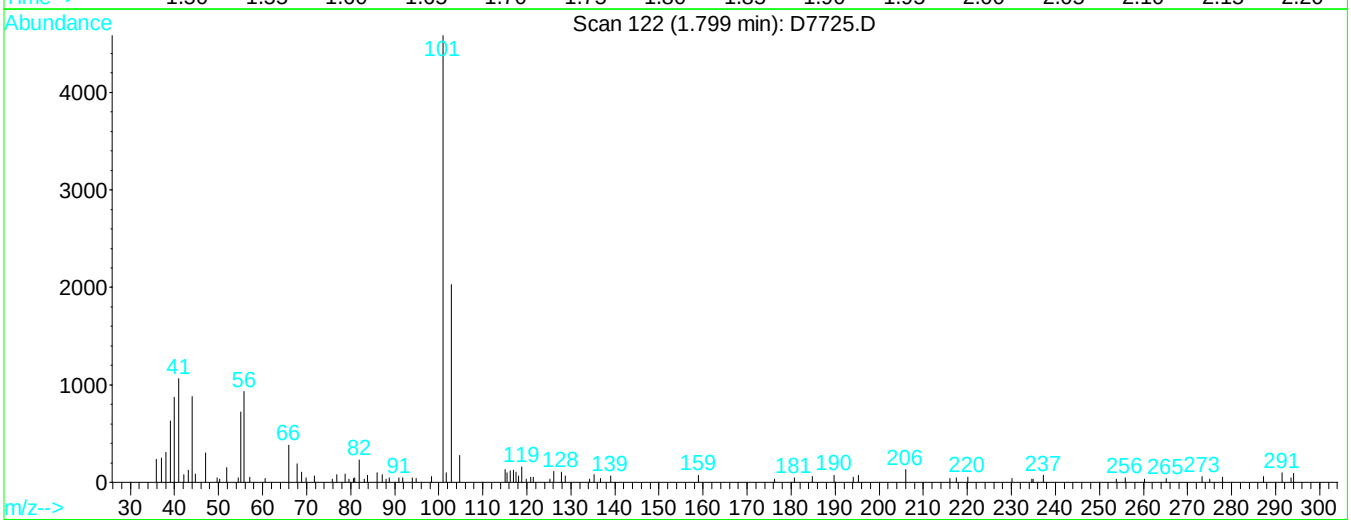


Quantitation Report (Qedit)

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

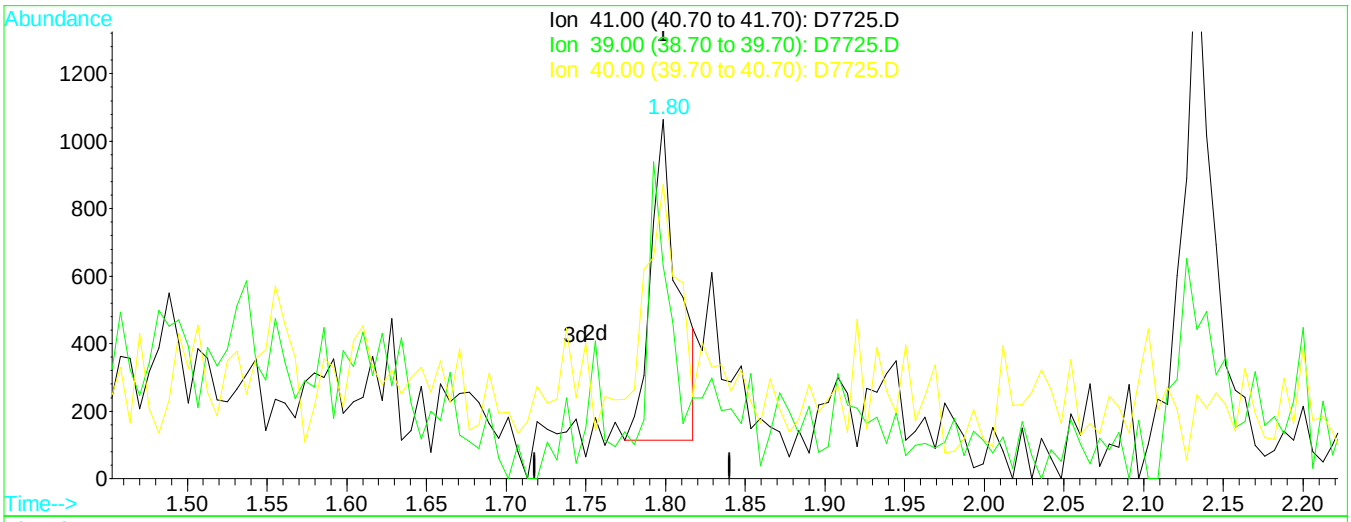
Poor integration.

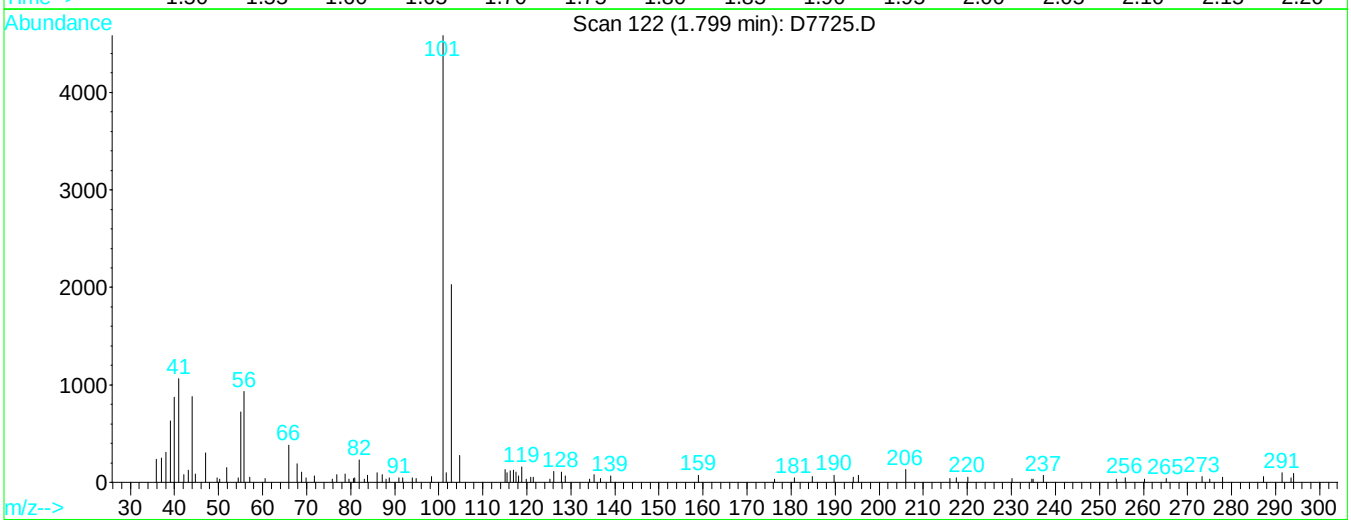
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

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:

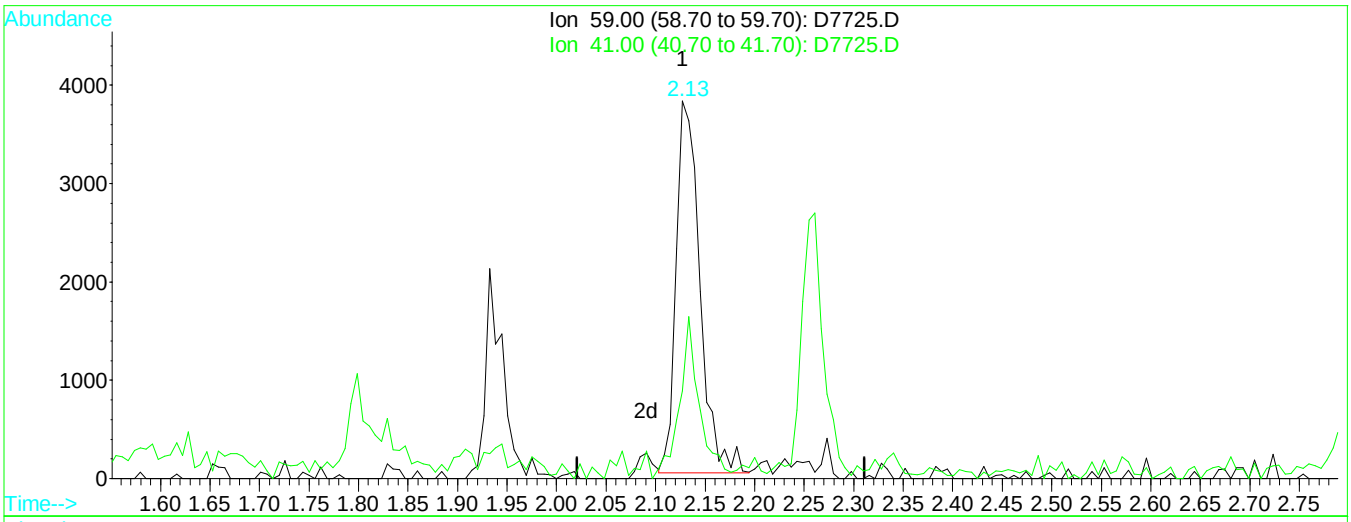
Before

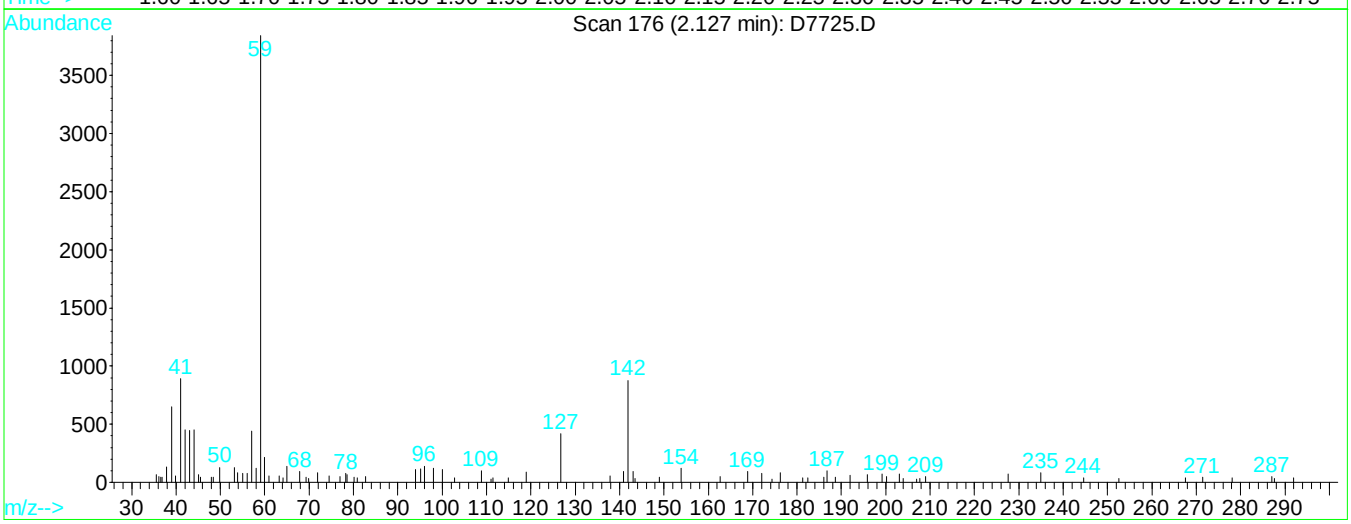
08/25/17

Quantitation Report (Qedit)

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

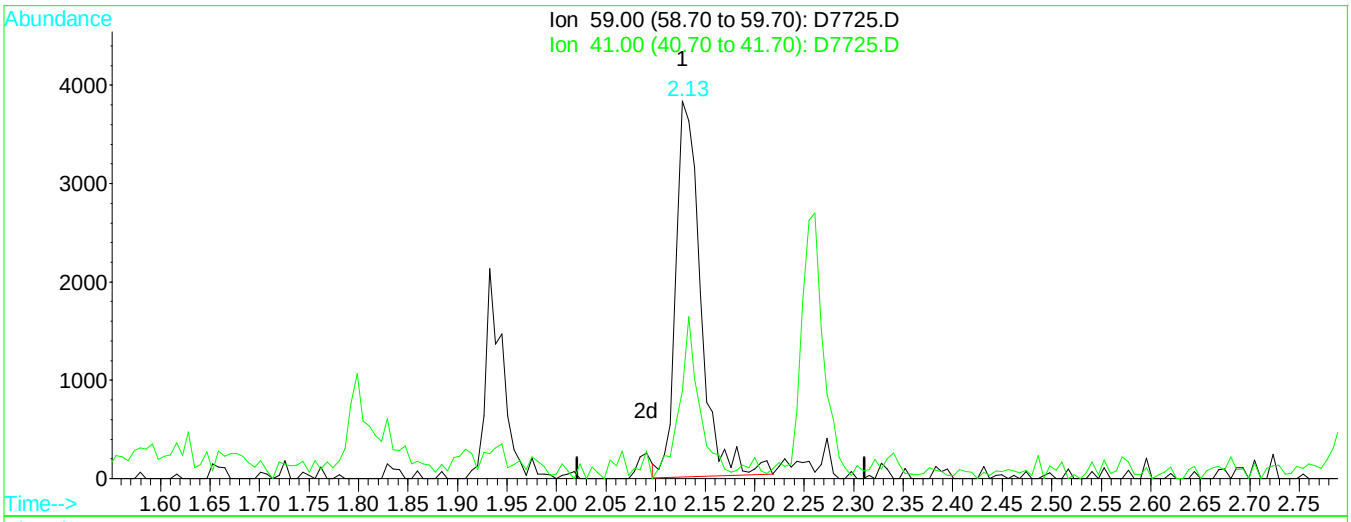
Poor integration.

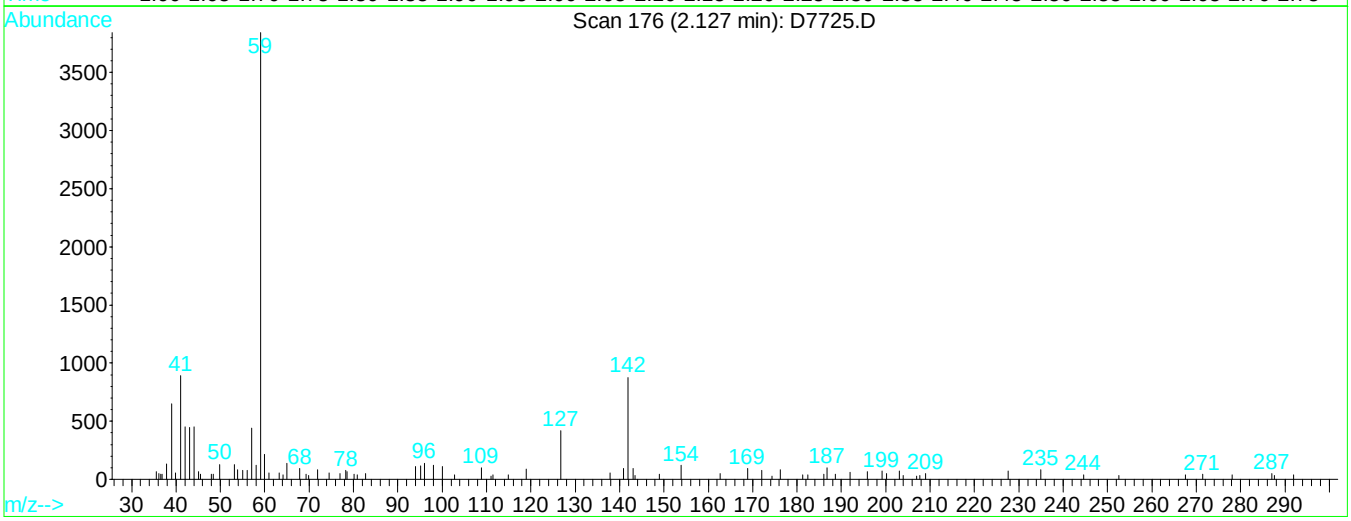
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

2.13min 38.74ug/L

response 6657

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:

Before

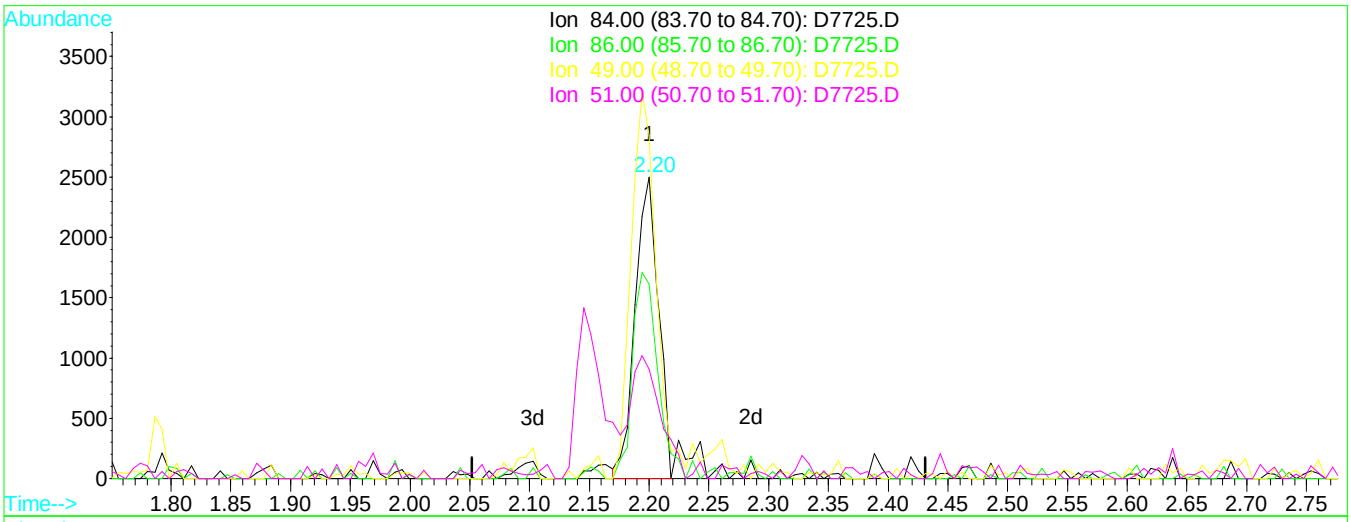
08/25/17

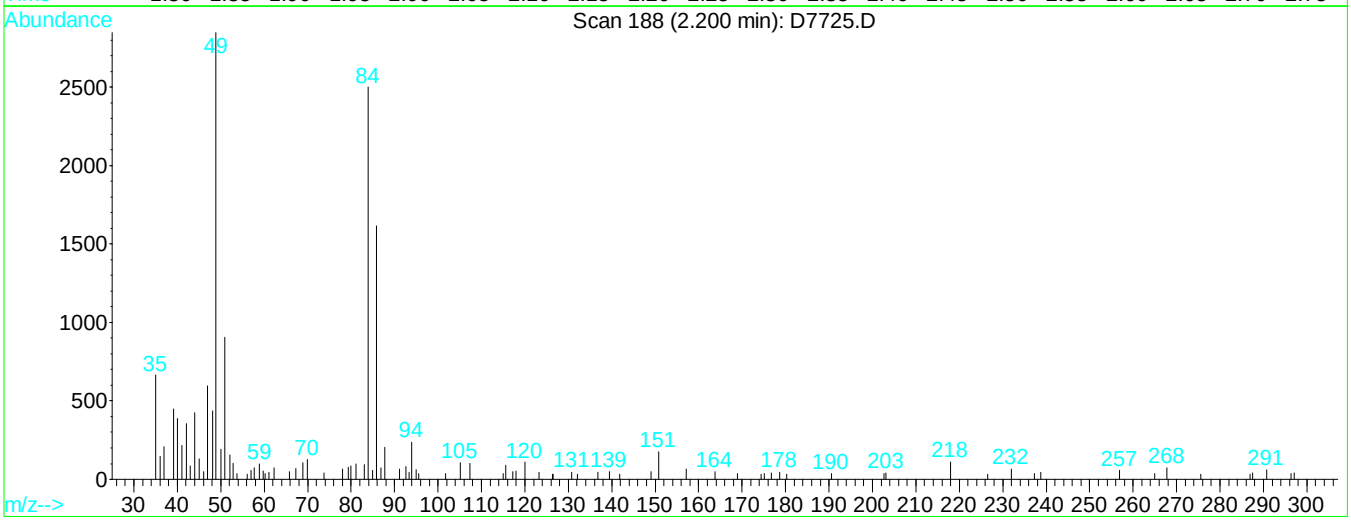
D7725.D W082417.M Fri Aug 25 10:10:54 2017

Quantitation Report (Qedit)

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)

2.20min 1.74ug/L m

response 3385

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

Manual Integration:

After

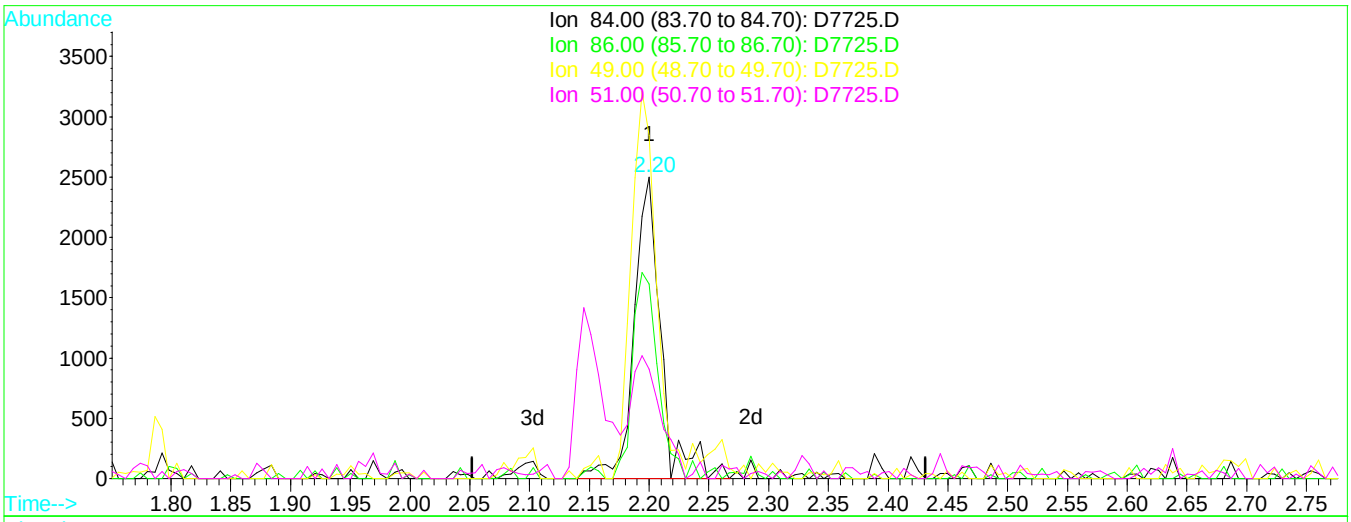
Poor integration.

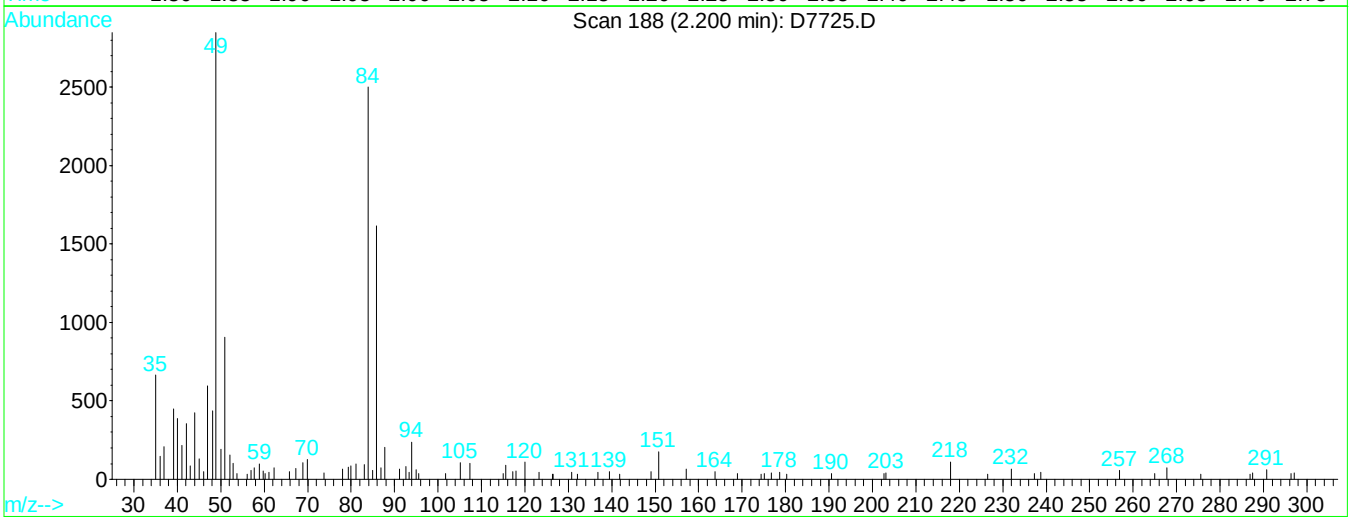
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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)

2.20min 2.04ug/L

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

Manual Integration:

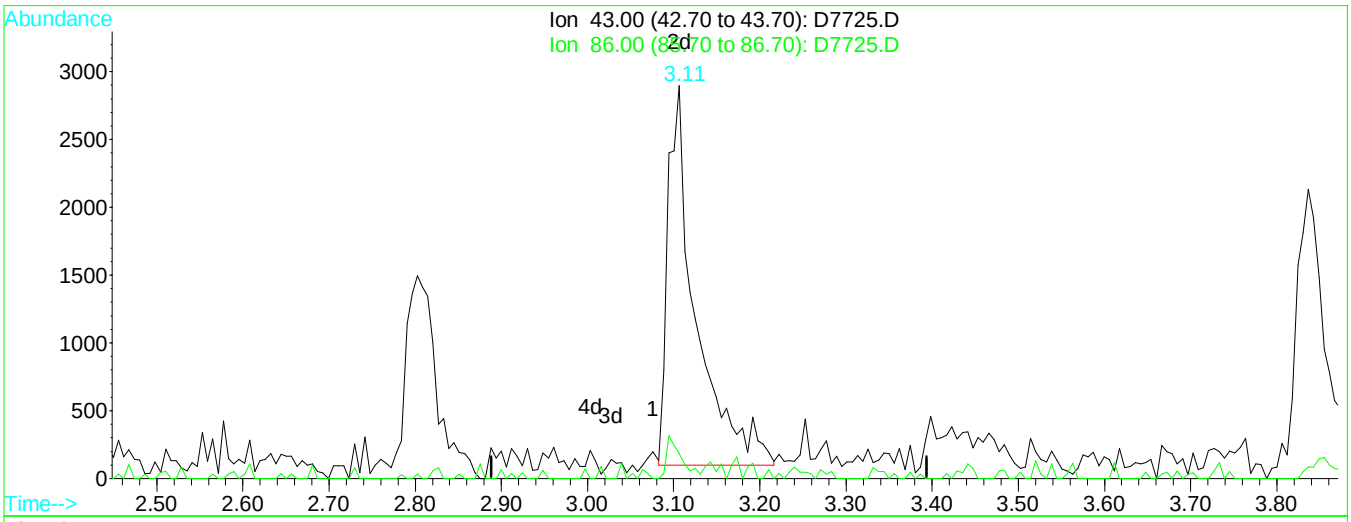
Before

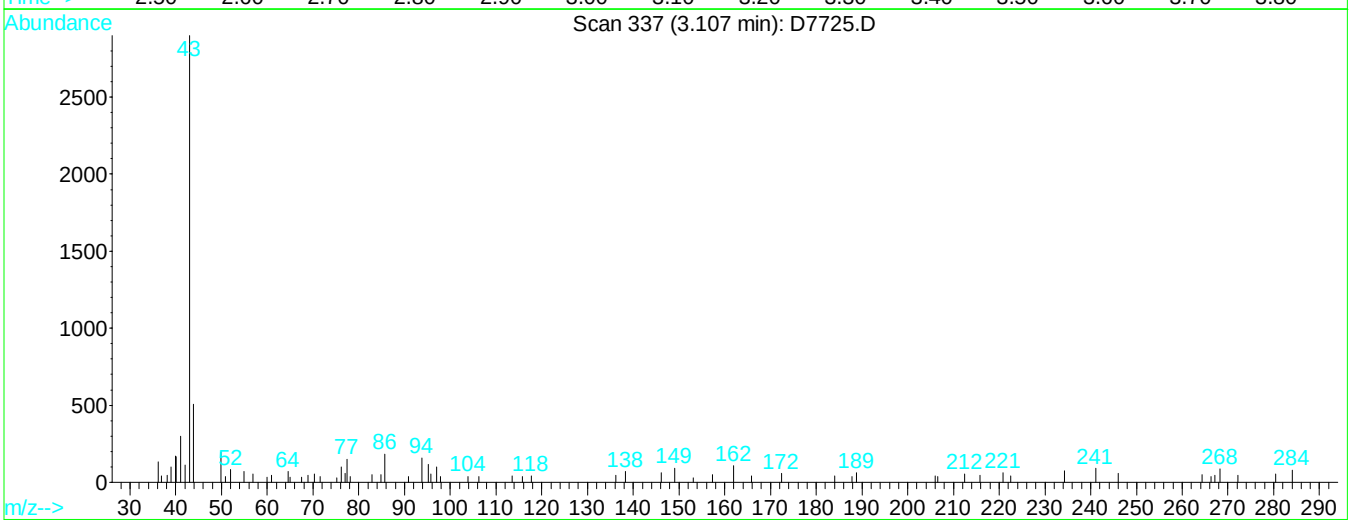
08/25/17

Quantitation Report (Qedit)

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

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

Manual Integration:

After

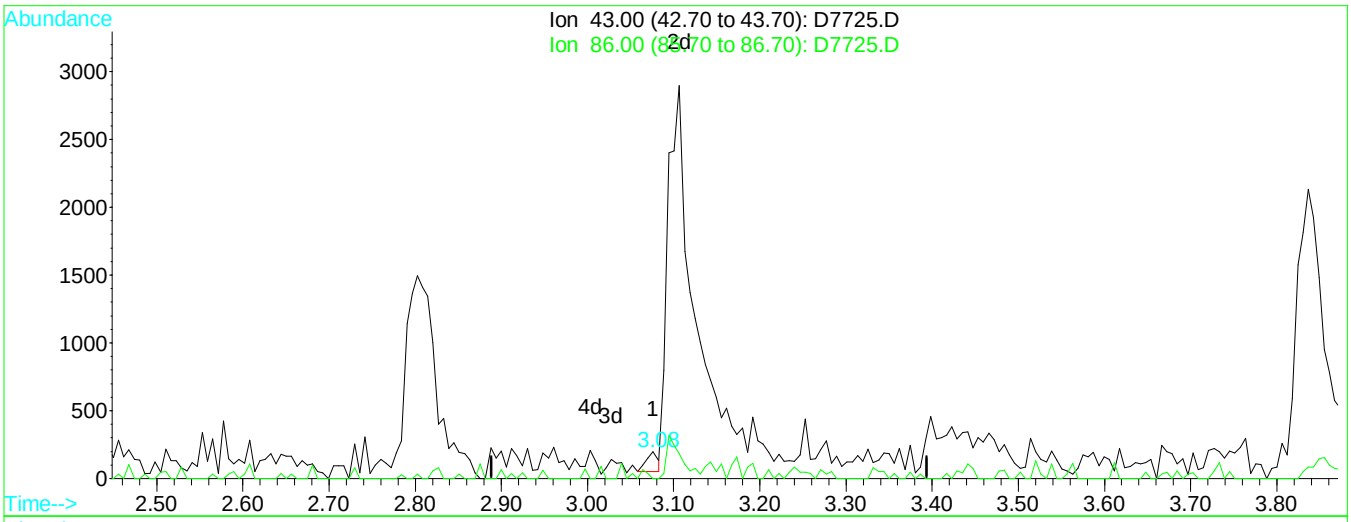
Peak not found.

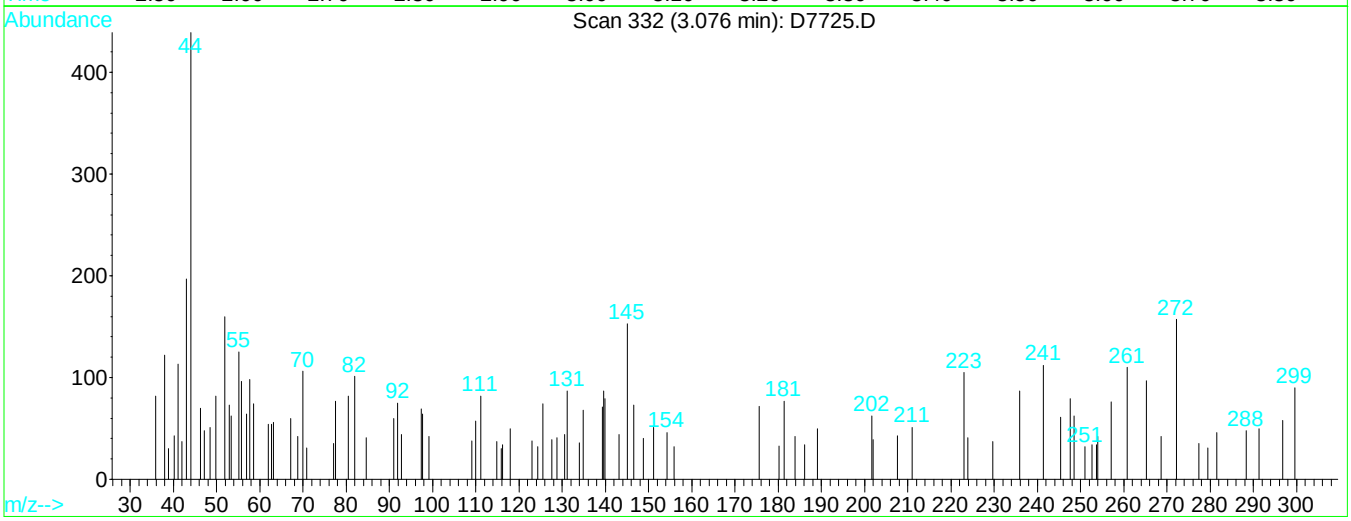
08/25/17

Quantitation Report (Qedit)

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

3.08min 0.04ug/L

response 138

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

Manual Integration:

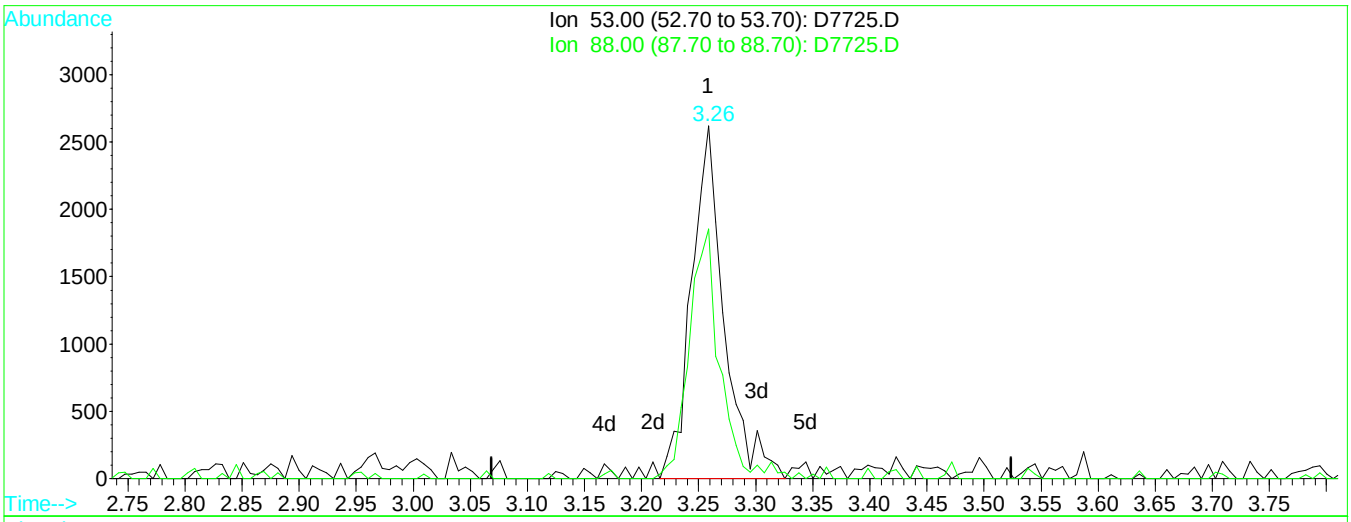
Before

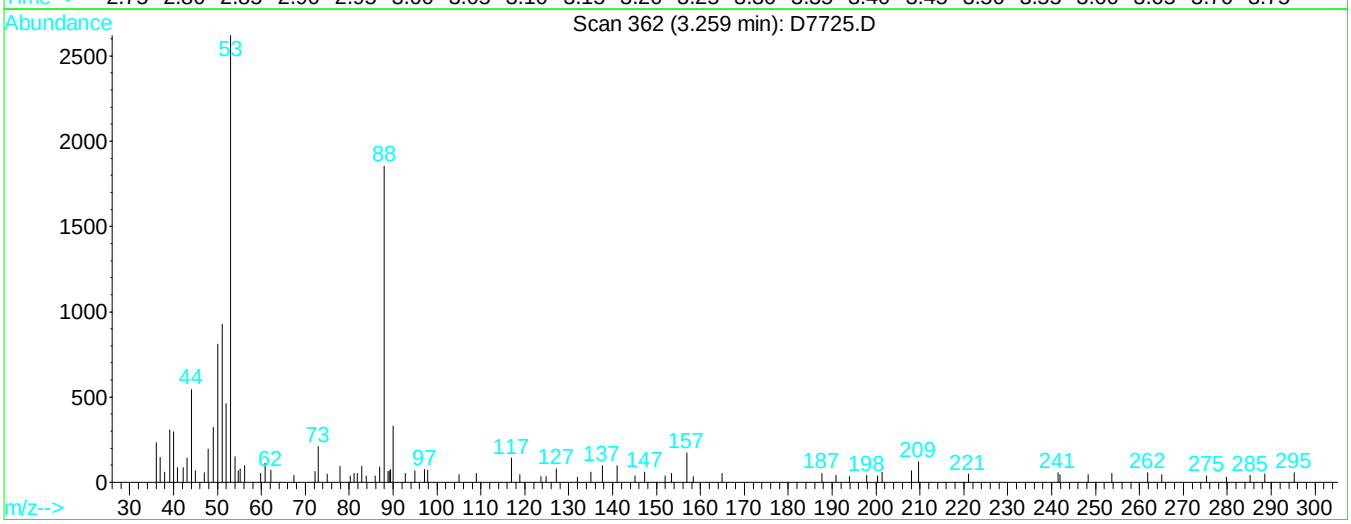
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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 10:13 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

3.26min 1.99ug/L m

response 5218

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

Manual Integration:

After

Split Peak.

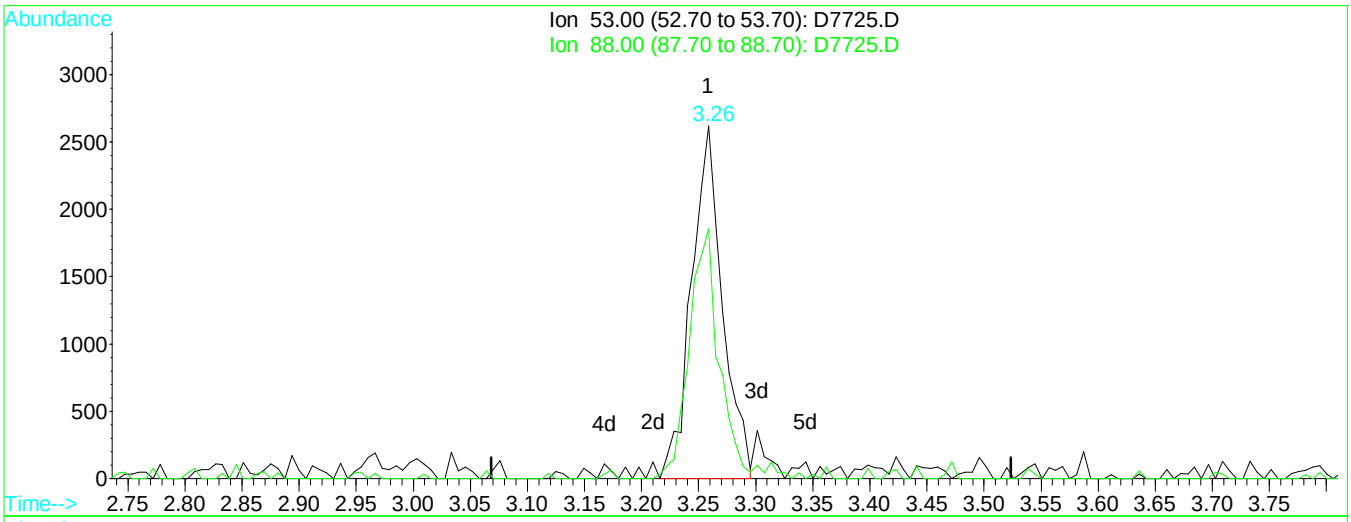
08/25/17

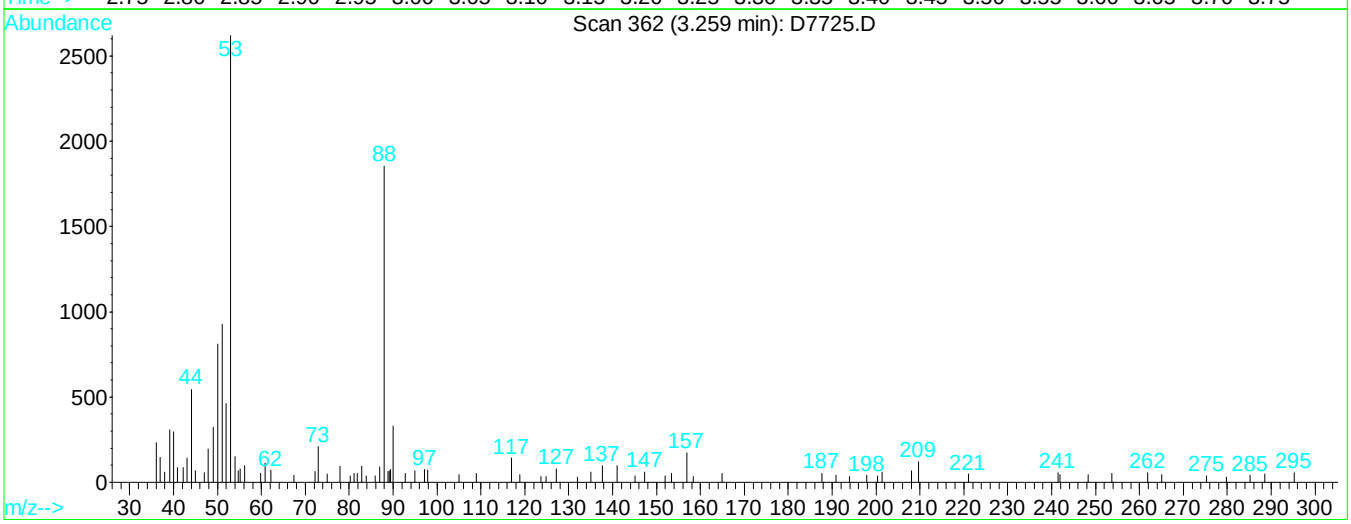
D7725.D W082417.M Fri Aug 25 10:13:35 2017

1st DL 08/25/17
2nd FW 08/26/17

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

3.26min 1.89ug/L

response 4942

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

Manual Integration:

Before

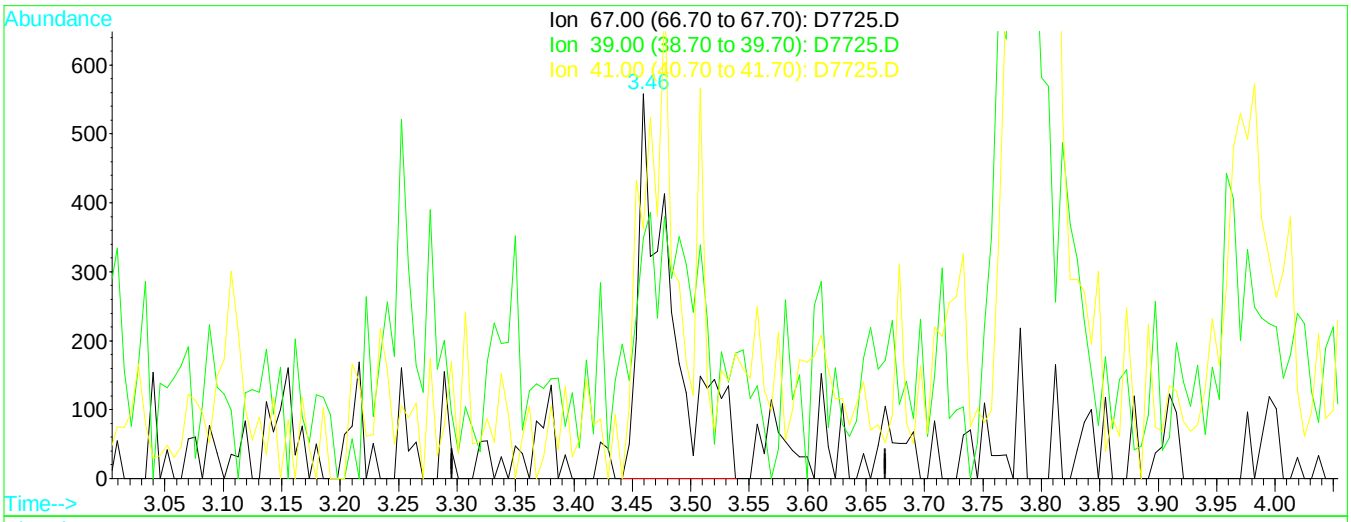
08/25/17

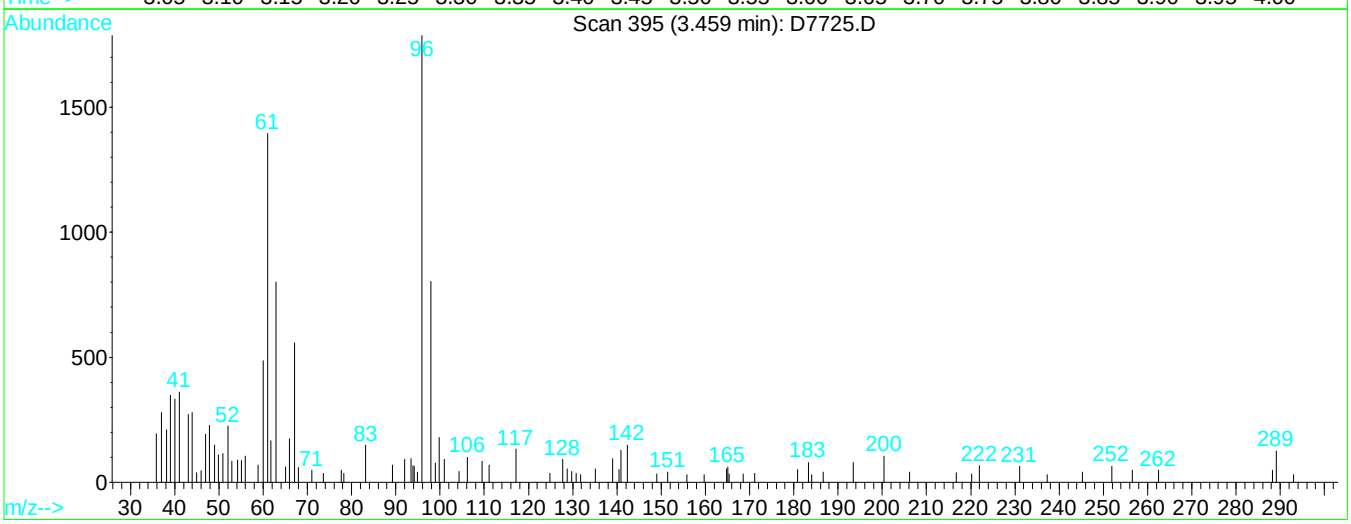
D7725.D W082417.M Fri Aug 25 10:13:28 2017

Quantitation Report (Qedit)

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

3.46min 1.76ug/L m

response 1137

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

Manual Integration:

After

Split Peak.

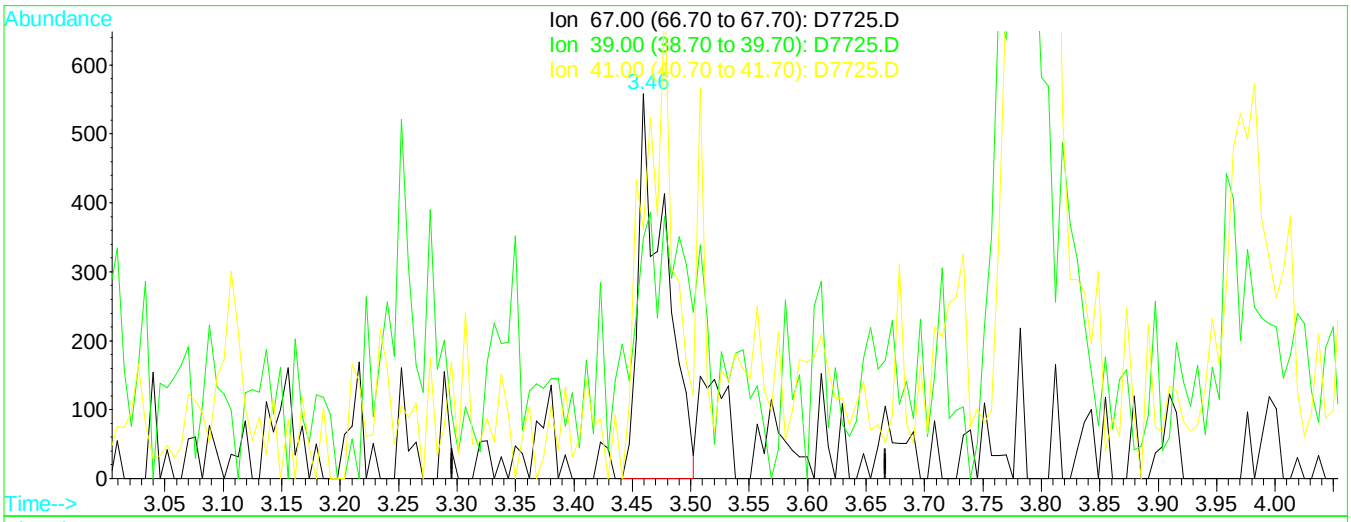
08/25/17

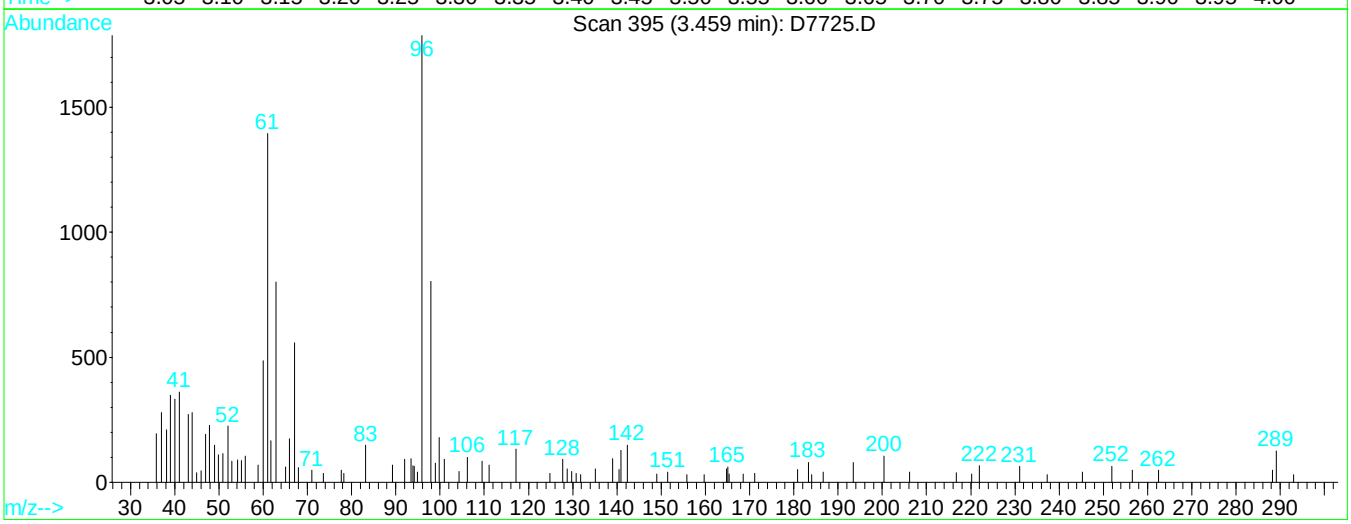
D7725.D W082417.M Fri Aug 25 10:13:54 2017

Quantitation Report (Qedit)

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

3.46min 1.38ug/L

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

Manual Integration:

Before

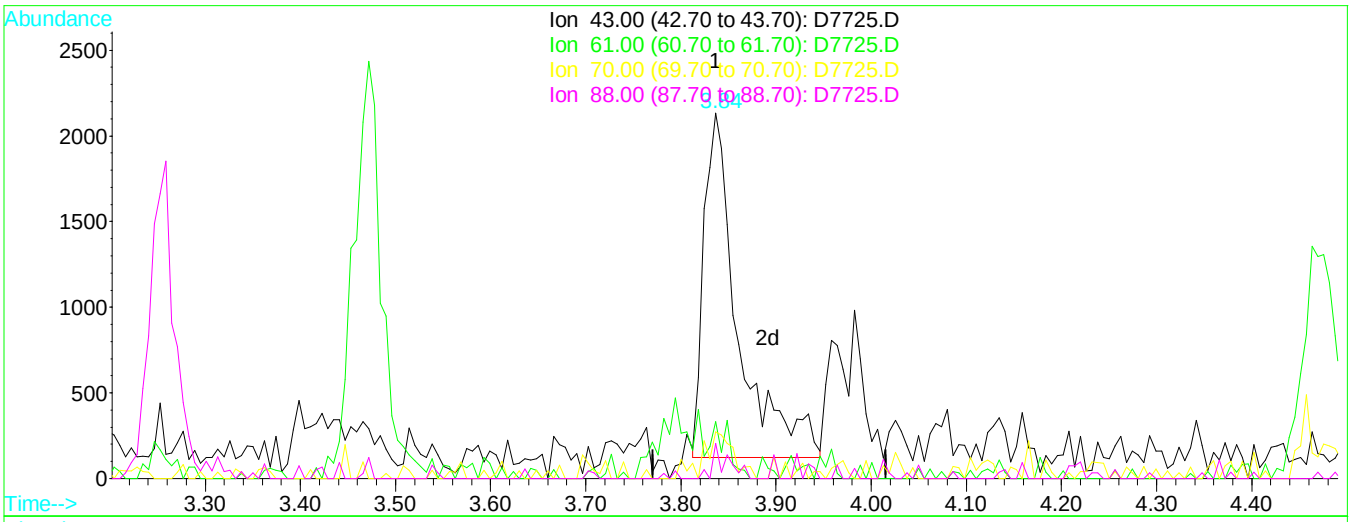
08/25/17

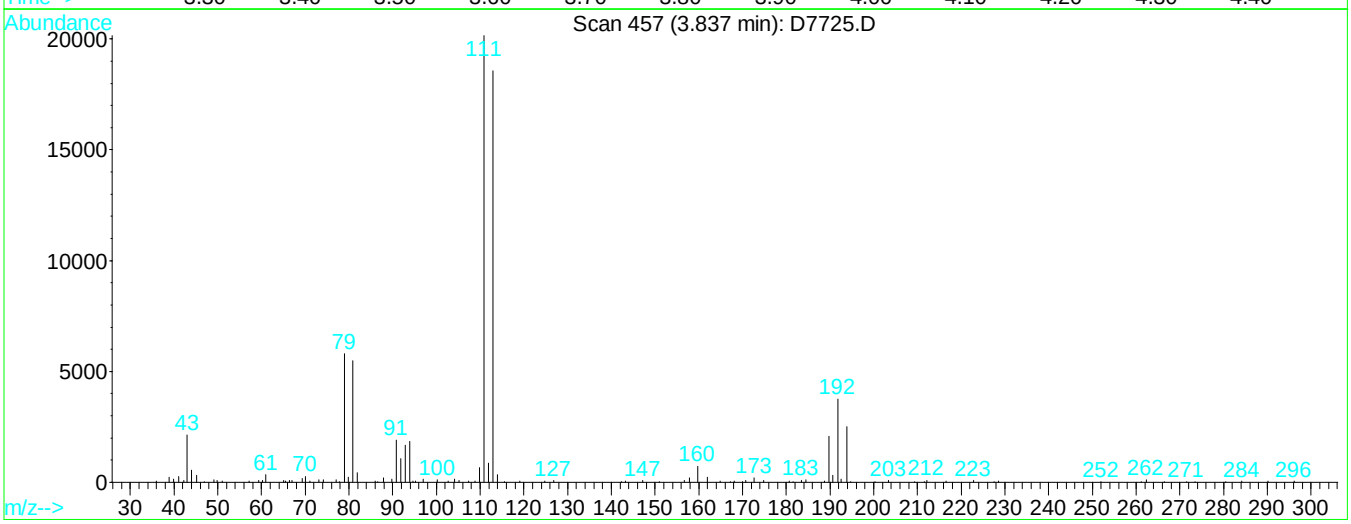
D7725.D W082417.M Fri Aug 25 10:13:48 2017

1st DL 08/25/17
2nd FW 08/26/17

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

3.84min 3.57ug/L m

response 5055

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

Manual Integration:

After

Split Peak.

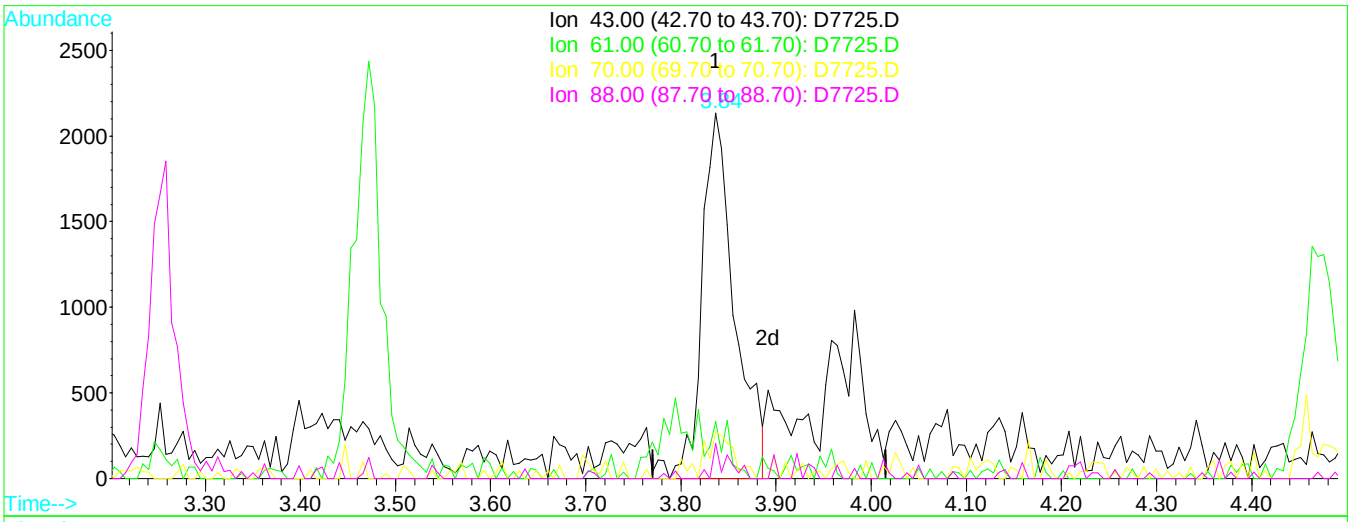
08/25/17

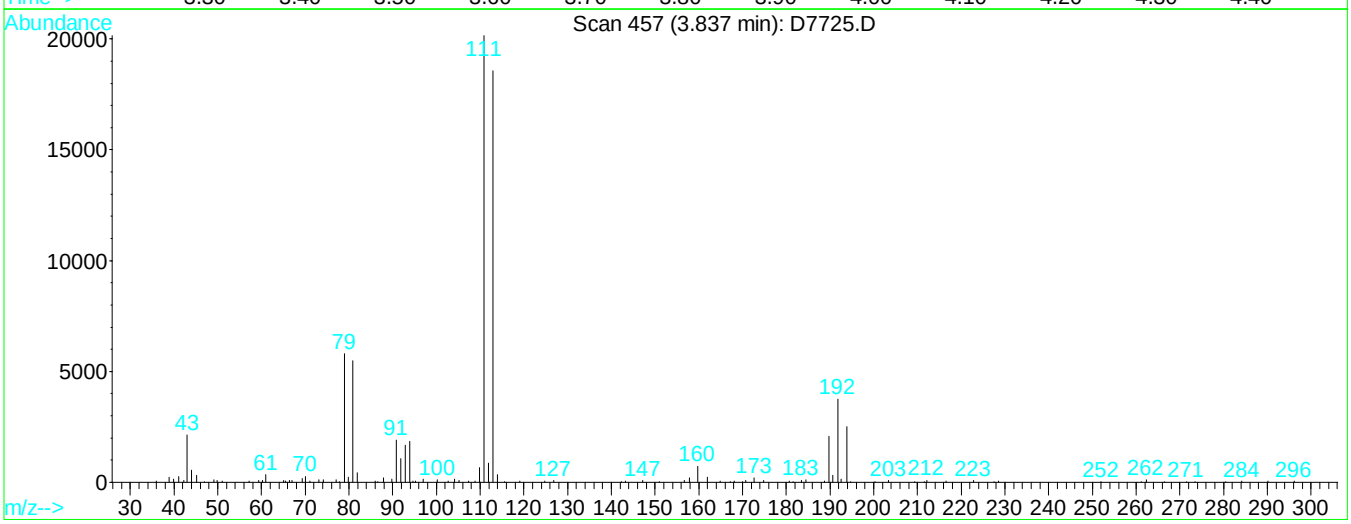
D7725.D W082417.M Fri Aug 25 10:14:44 2017

Quantitation Report (Qedit)

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

3.84min 3.56ug/L

response 5042

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

Manual Integration:

Before

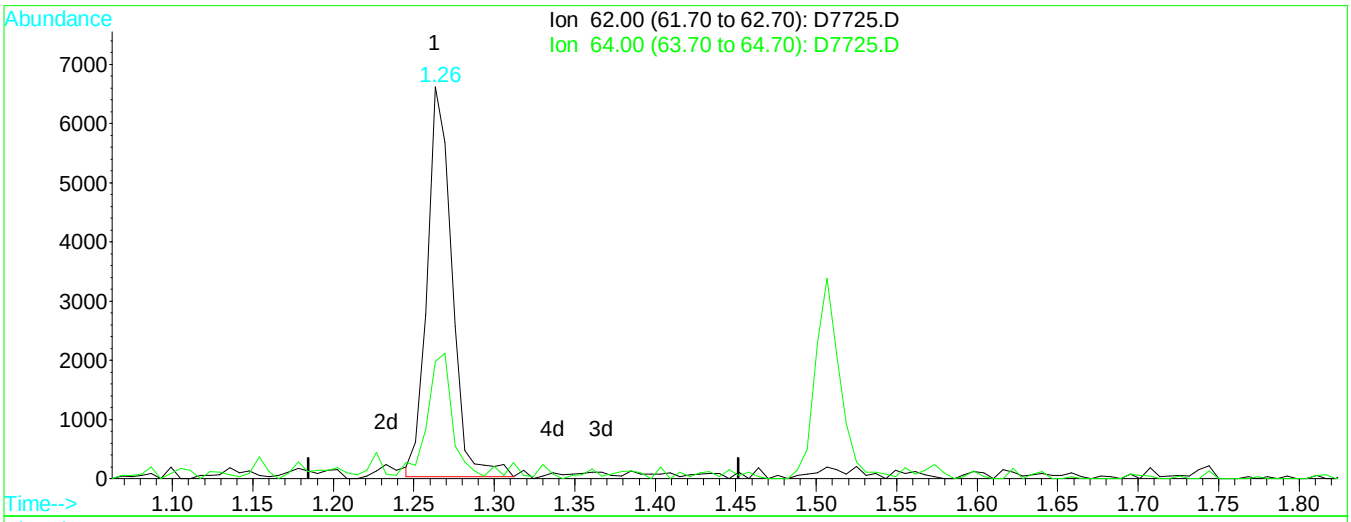
08/25/17

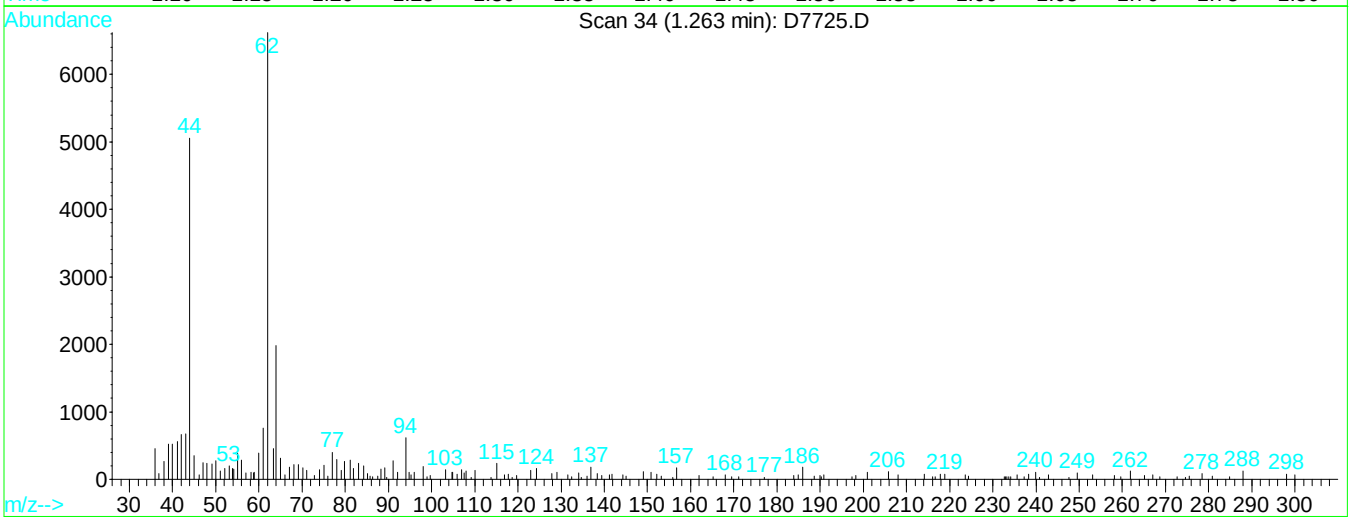
D7725.D W082417.M Fri Aug 25 10:14:23 2017

Quantitation Report (Qedit)

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)

1.26min 2.16ug/L m

response 7056

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

Manual Integration:

After

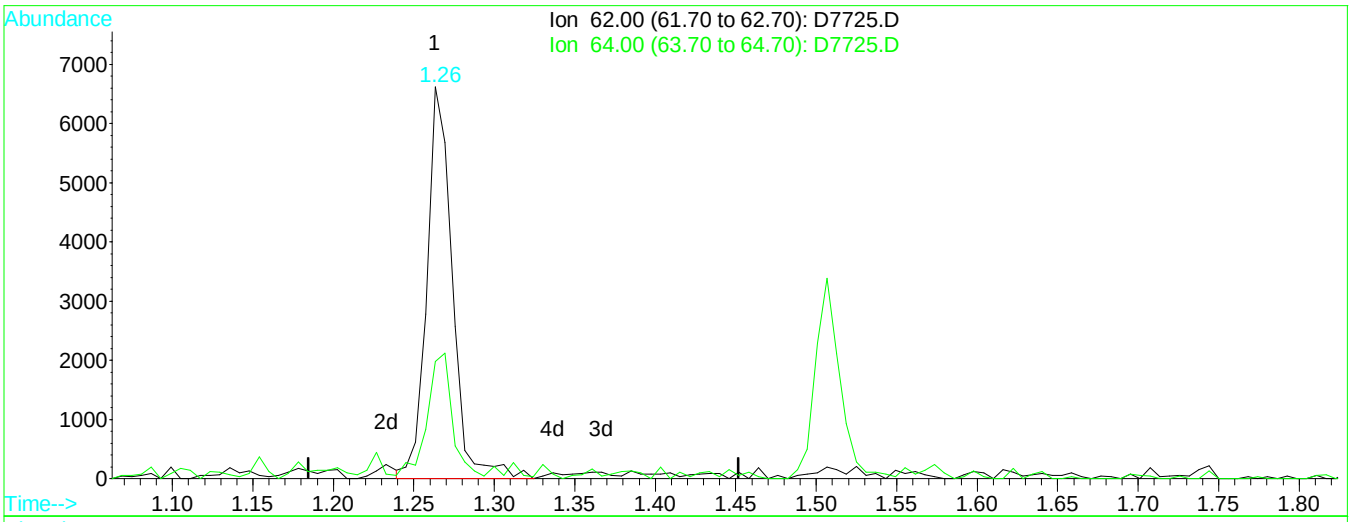
Poor integration.

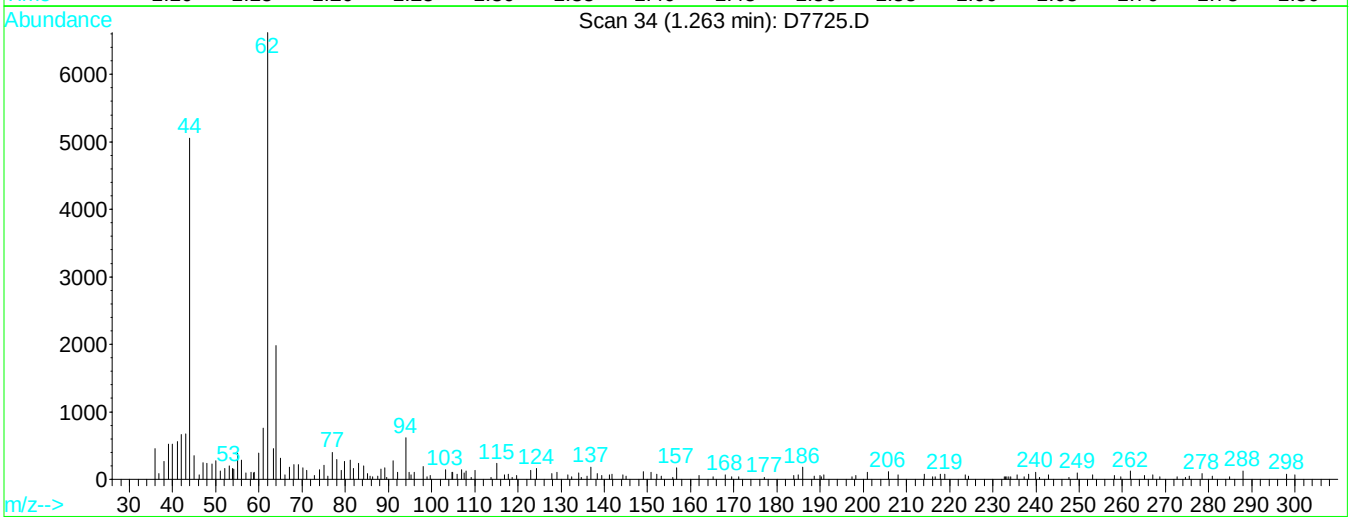
08/25/17

Quantitation Report (Qedit)

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)

1.26min 2.24ug/L

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

Manual Integration:

Before

08/25/17

Quantitation Report (Qedit)

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)

4.58min 2.32ug/L m

response 2194

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#

Manual Integration:

After

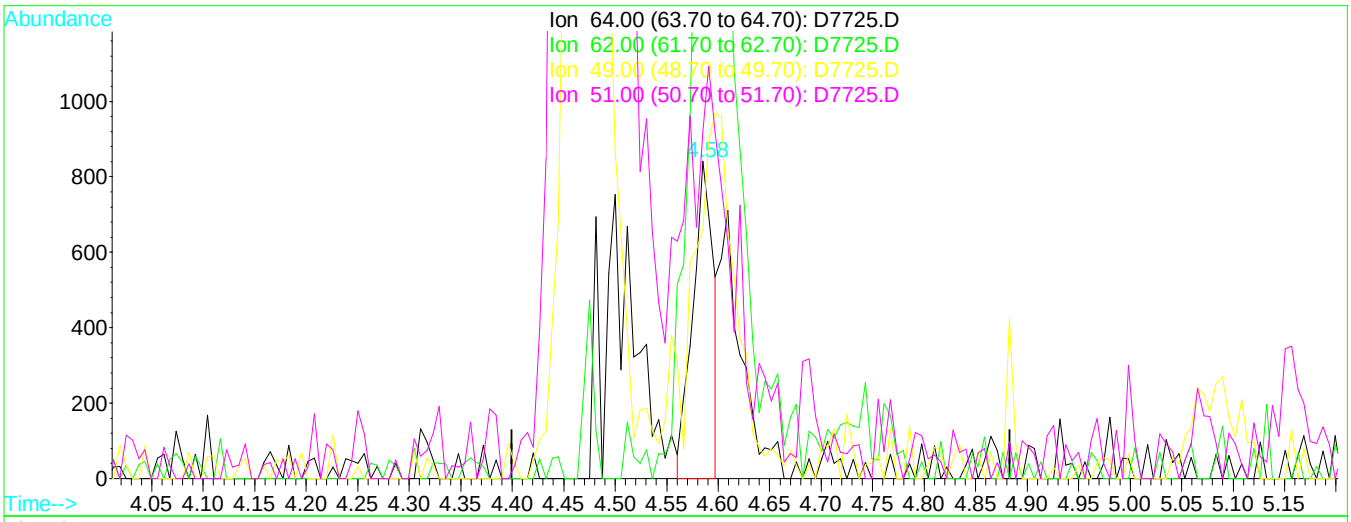
Split Peak.

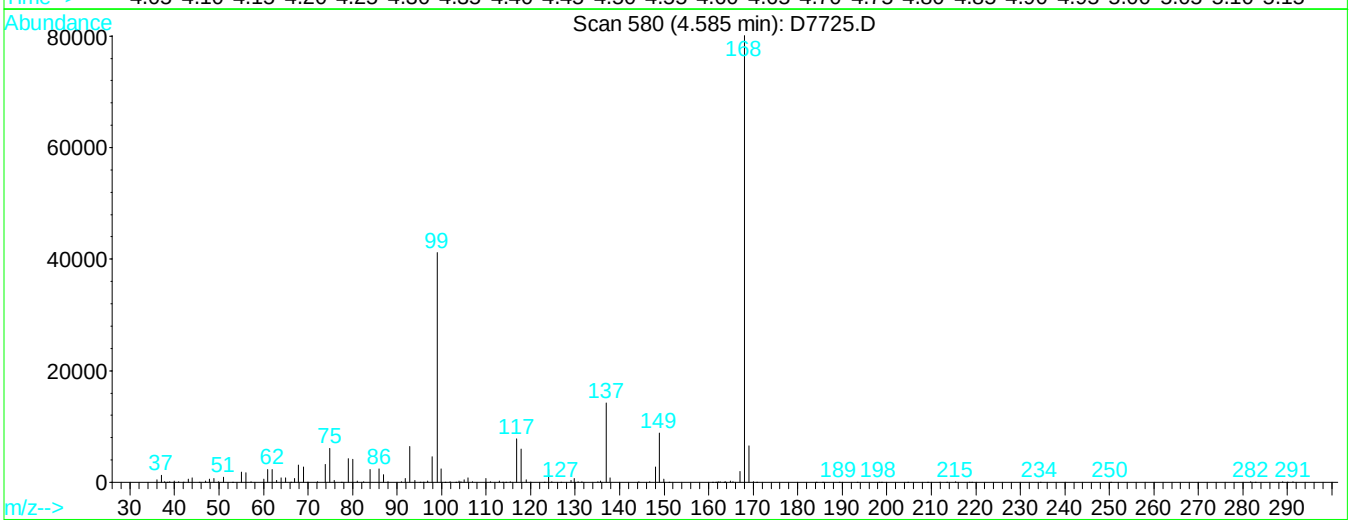
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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)

4.58min 1.23ug/L

response 1168

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#

Manual Integration:

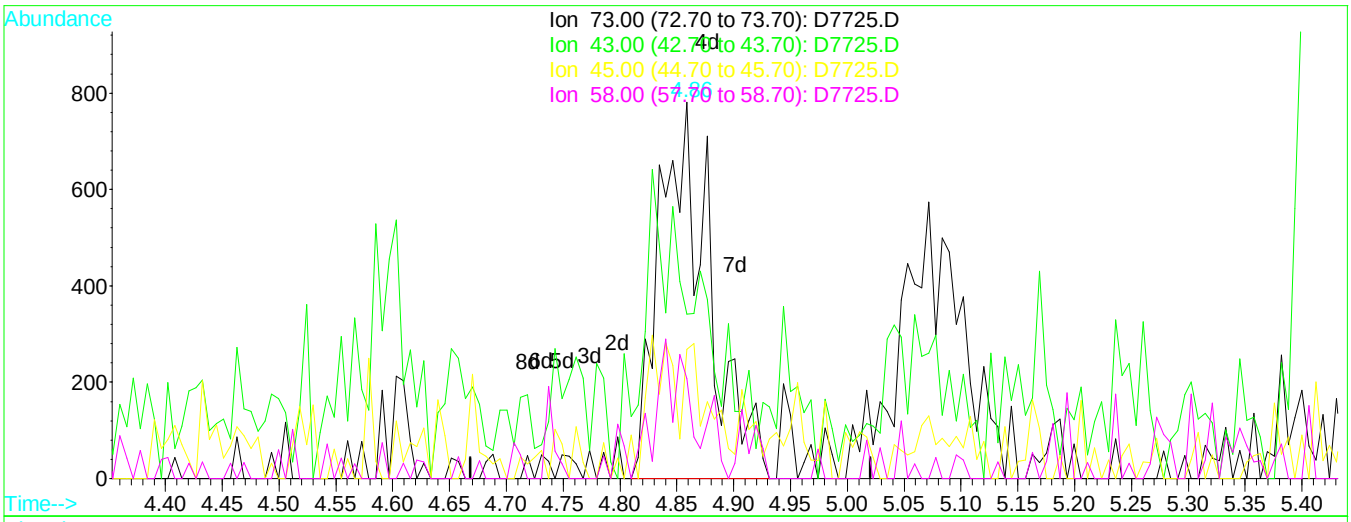
Before

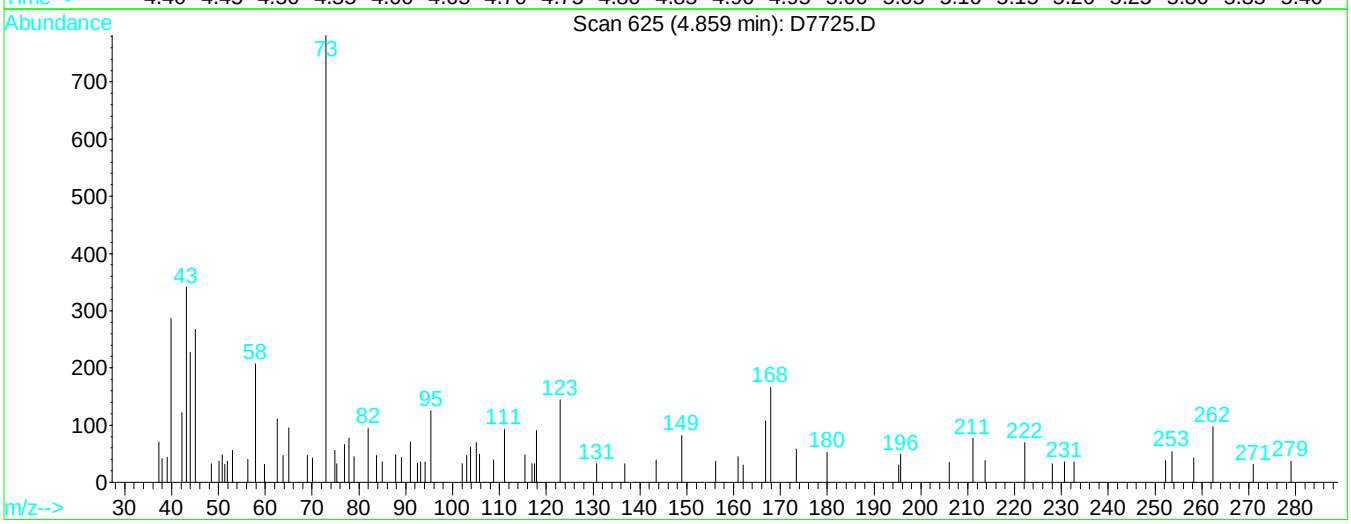
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

(45) 2-Methyl-1,3-Dioxolane

4.86min 10.37ug/L m

response 2376

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

Manual Integration:

After

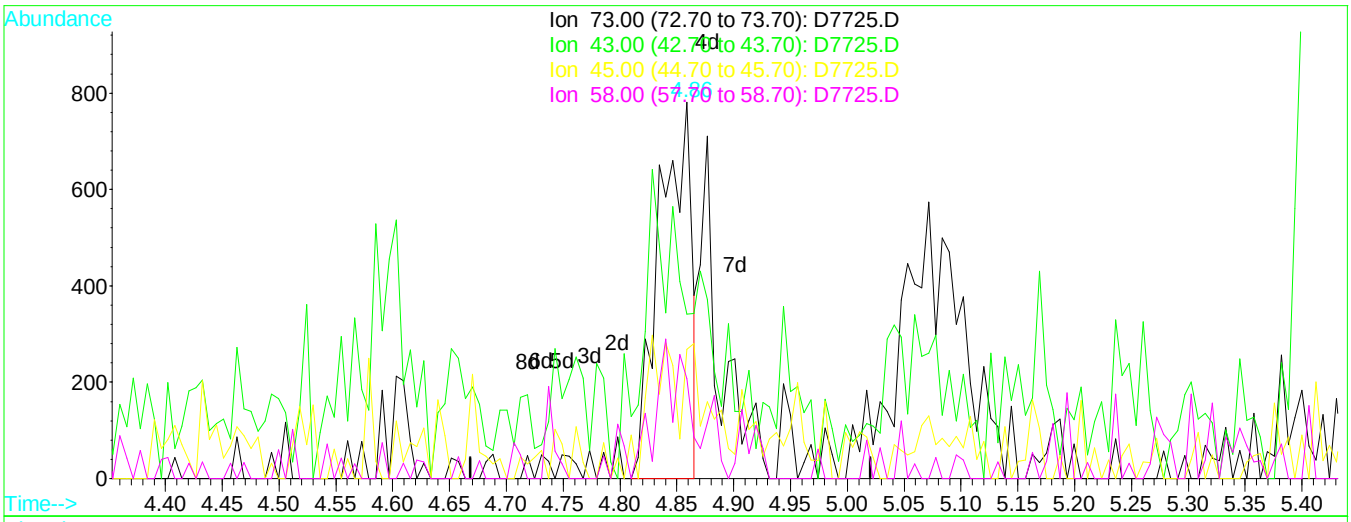
Split Peak.

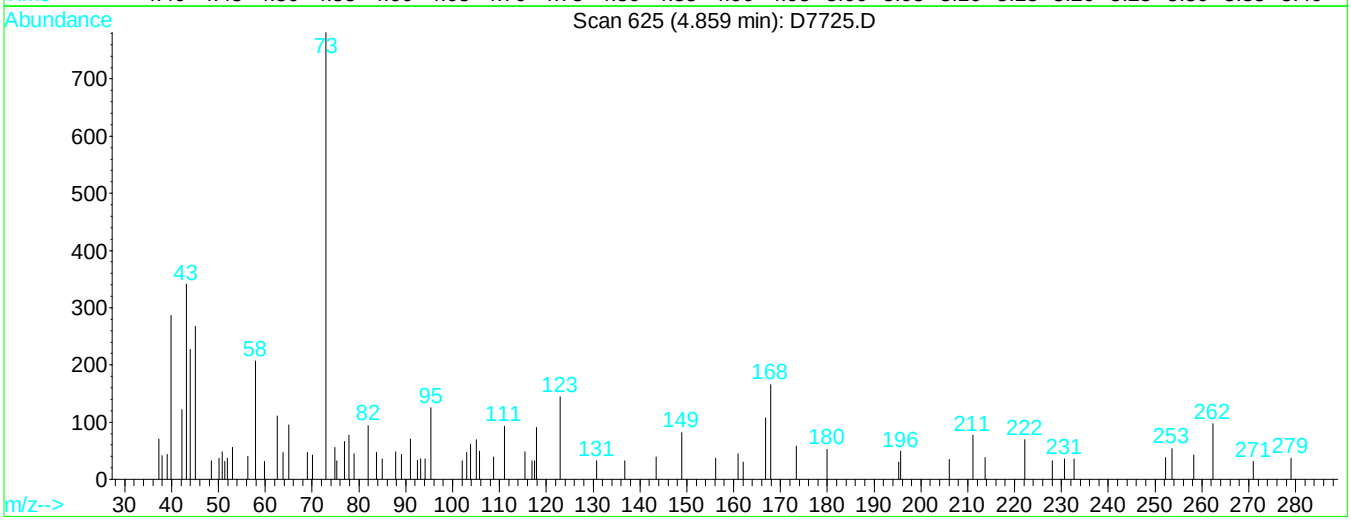
08/25/17

Quantitation Report (Qedit)

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

4.86min 6.64ug/L

response 1522

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

Manual Integration:

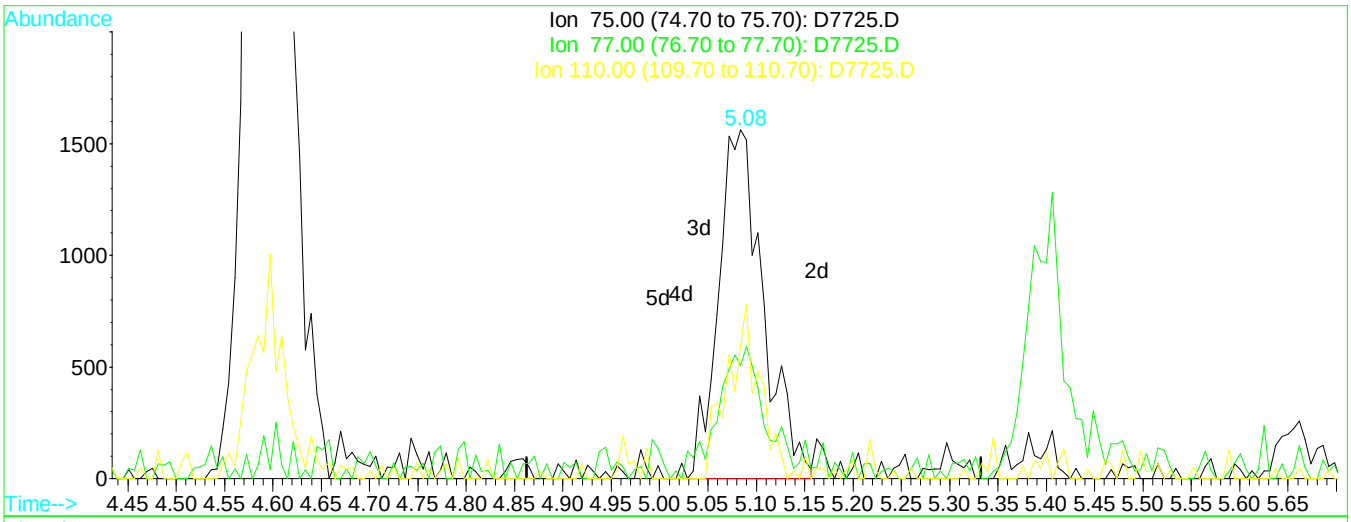
Before

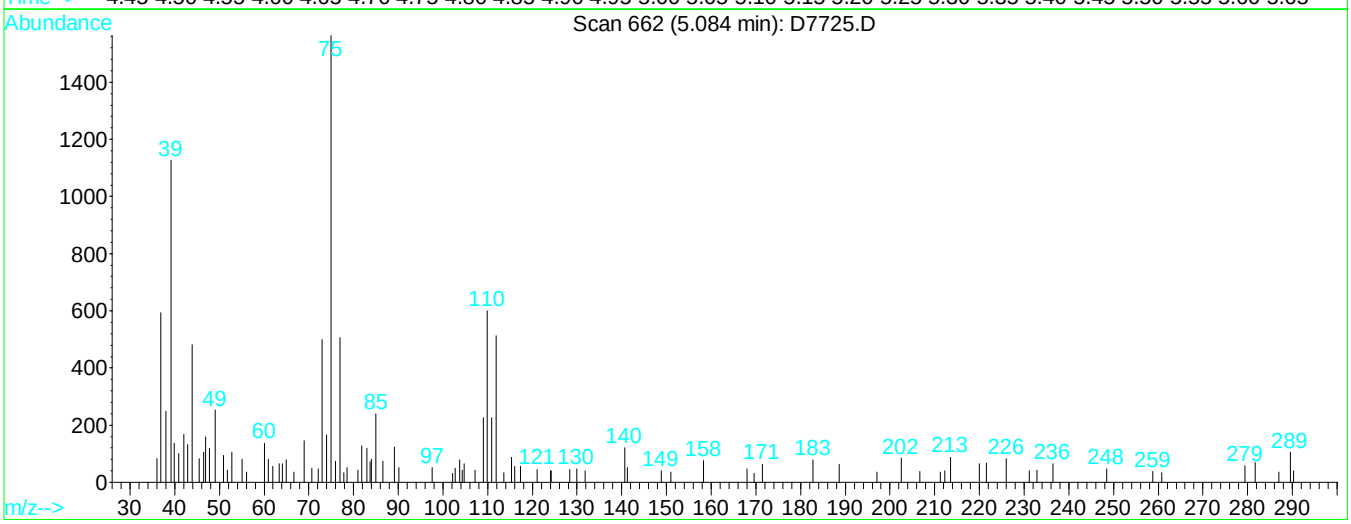
08/25/17

Quantitation Report (Qedit)

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

5.08min 2.01ug/L m

response 5037

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

Manual Integration:

After

Split Peak.

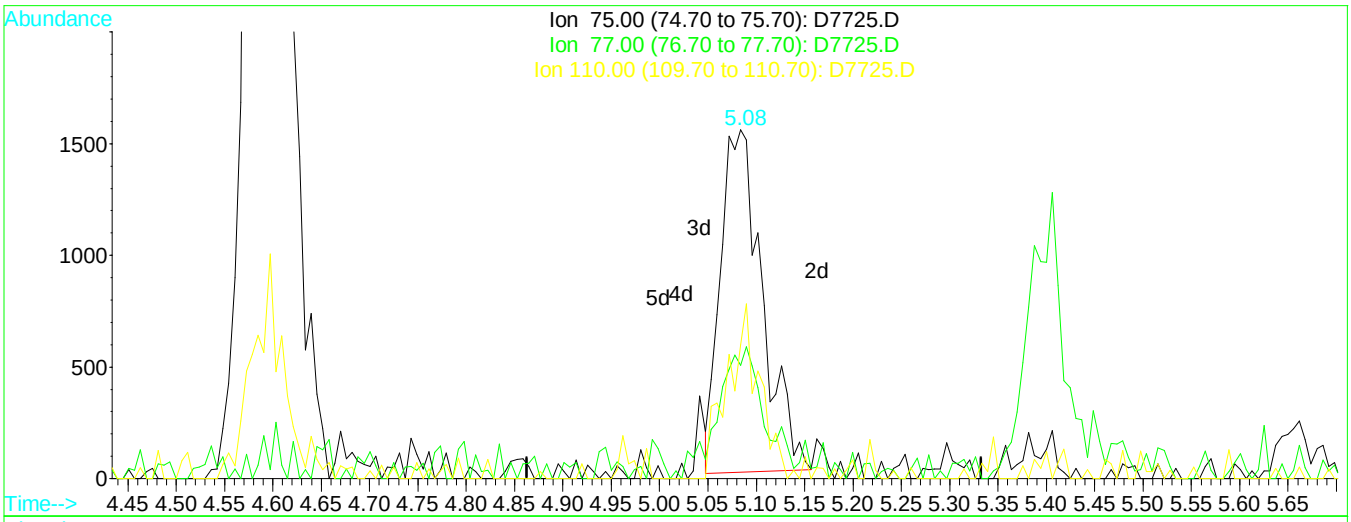
08/25/17

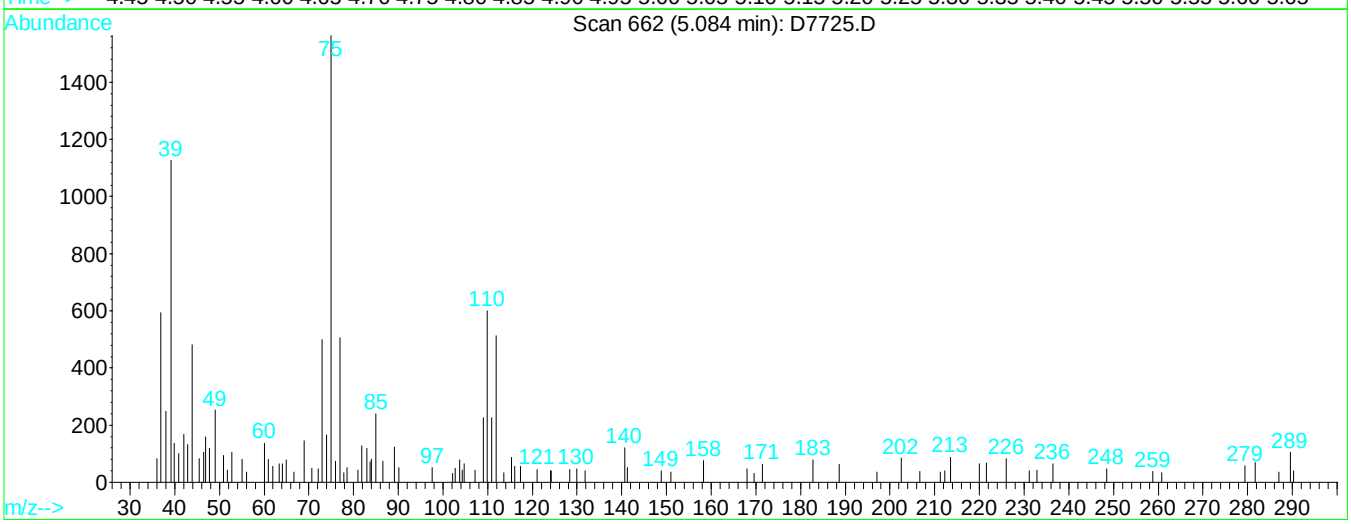
D7725.D W082417.M Fri Aug 25 10:17:02 2017

Quantitation Report (Qedit)

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

5.08min 1.84ug/L

response 4606

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

Manual Integration:

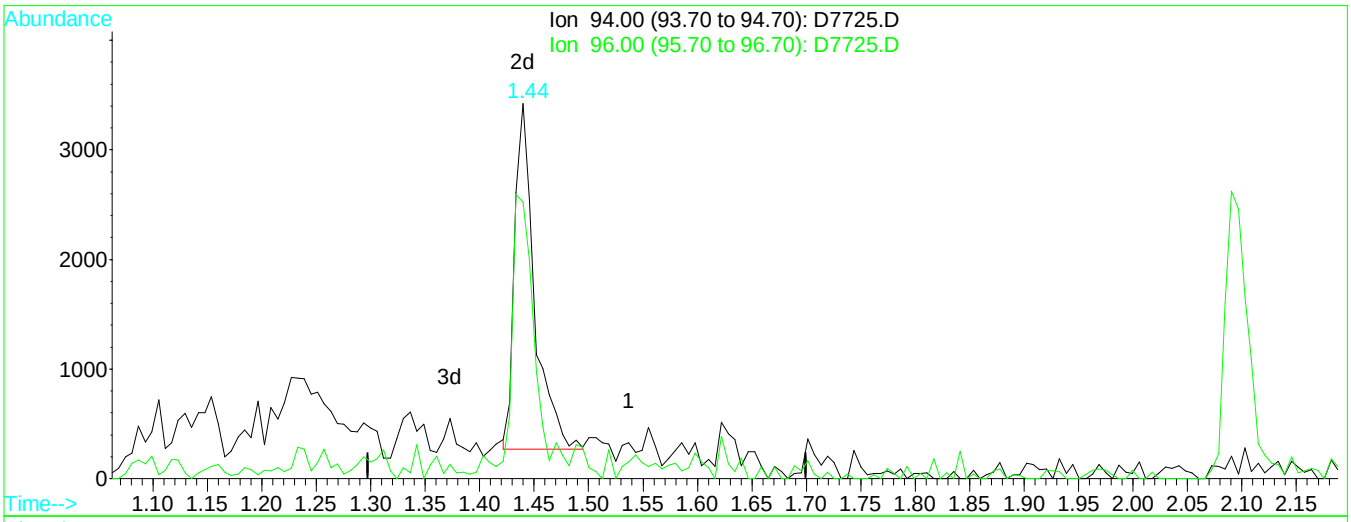
Before

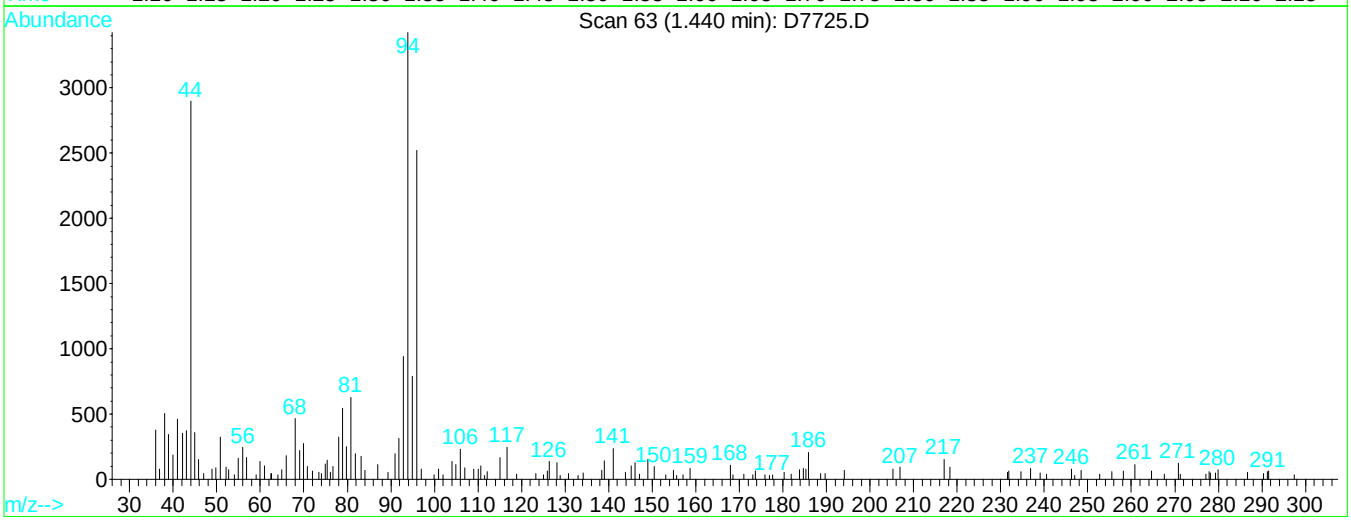
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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 10:07 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)

1.44min 2.03ug/L m

response 3967

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

Manual Integration:

After

Peak not found.

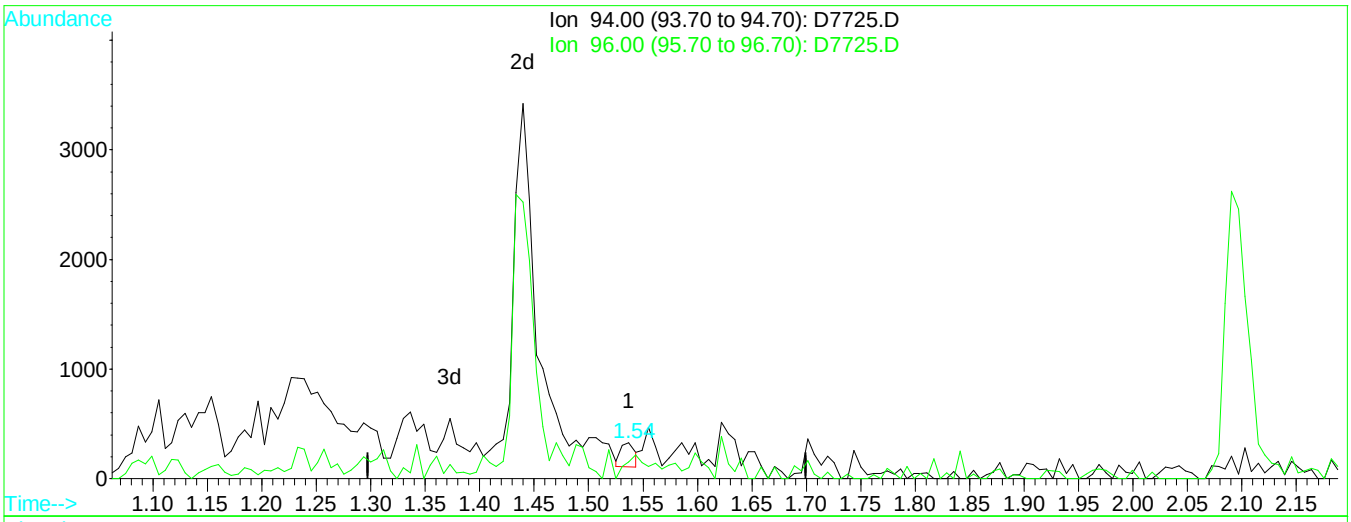
08/25/17

D7725.D W082417.M Fri Aug 25 10:07:14 2017

Quantitation Report (Qedit)

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)

1.54min 0.10ug/L

response 196

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

Manual Integration:

Before

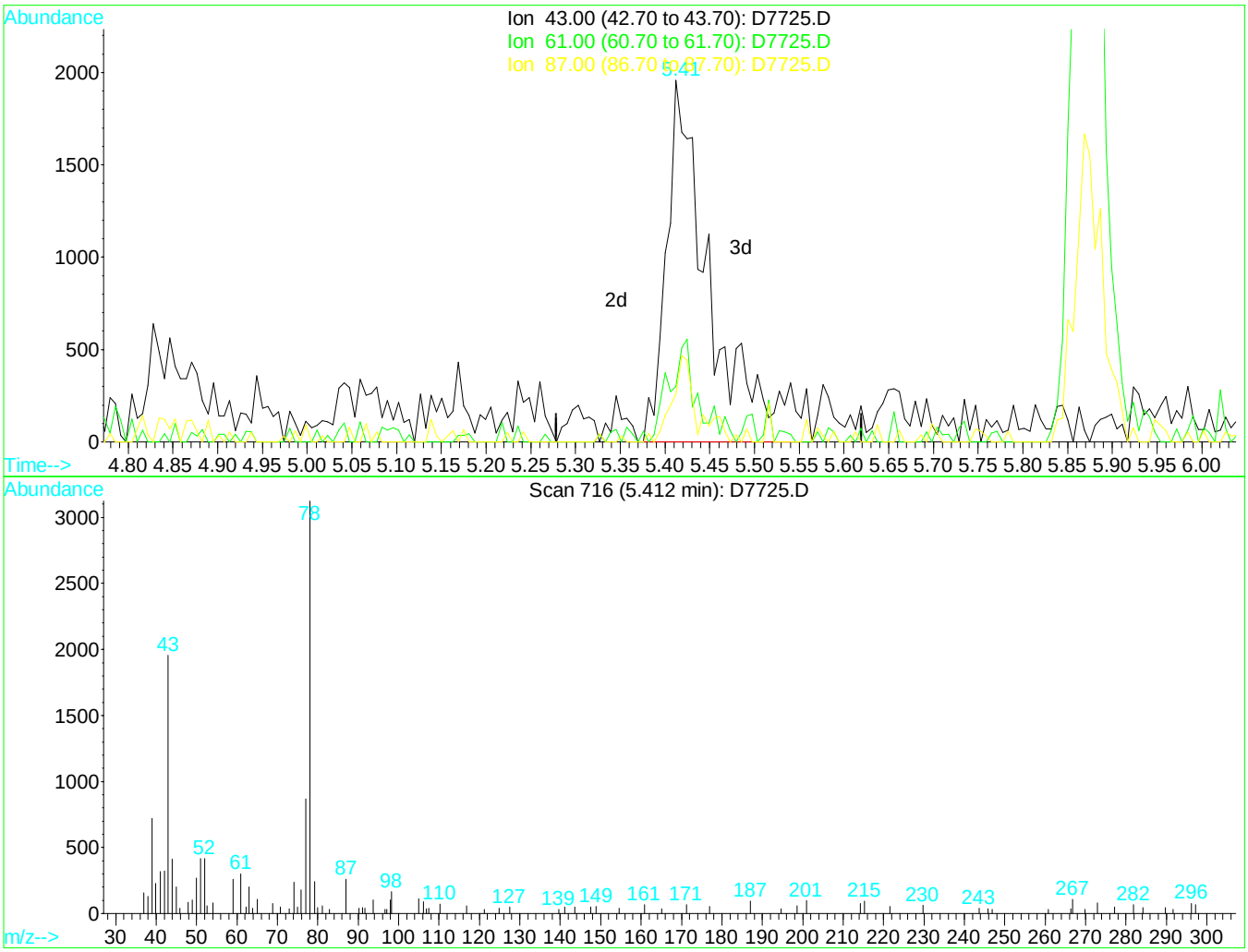
08/25/17

D7725.D W082417.M Fri Aug 25 10:06:27 2017

Quantitation Report (Qedit)

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

5.41min 2.04ug/L m

response 6737

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

Manual Integration:

After

Split Peak.

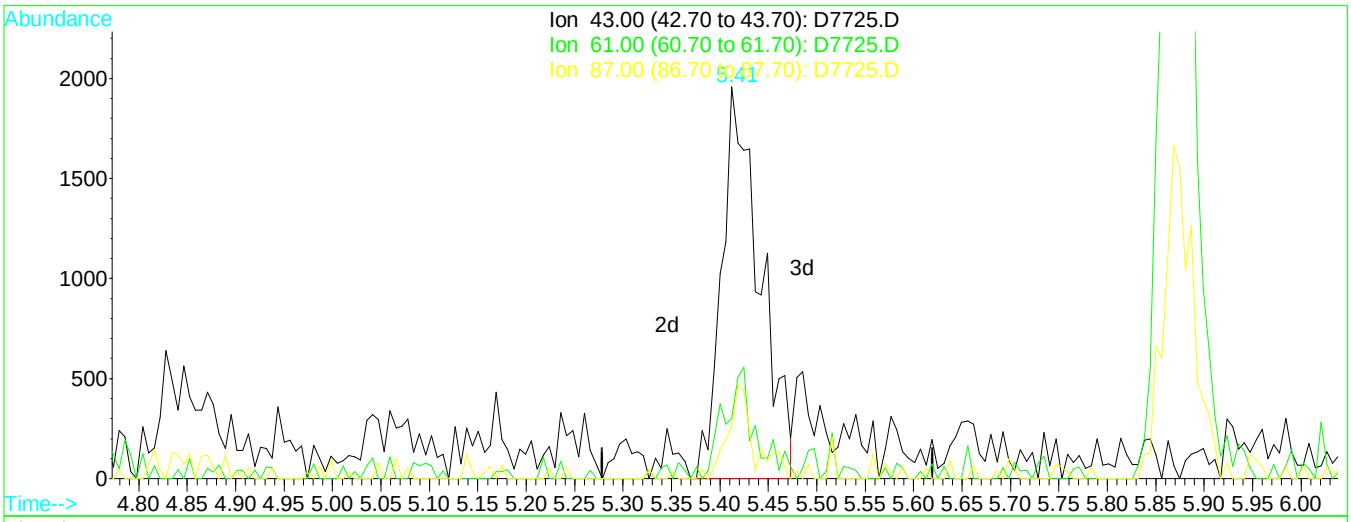
08/25/17

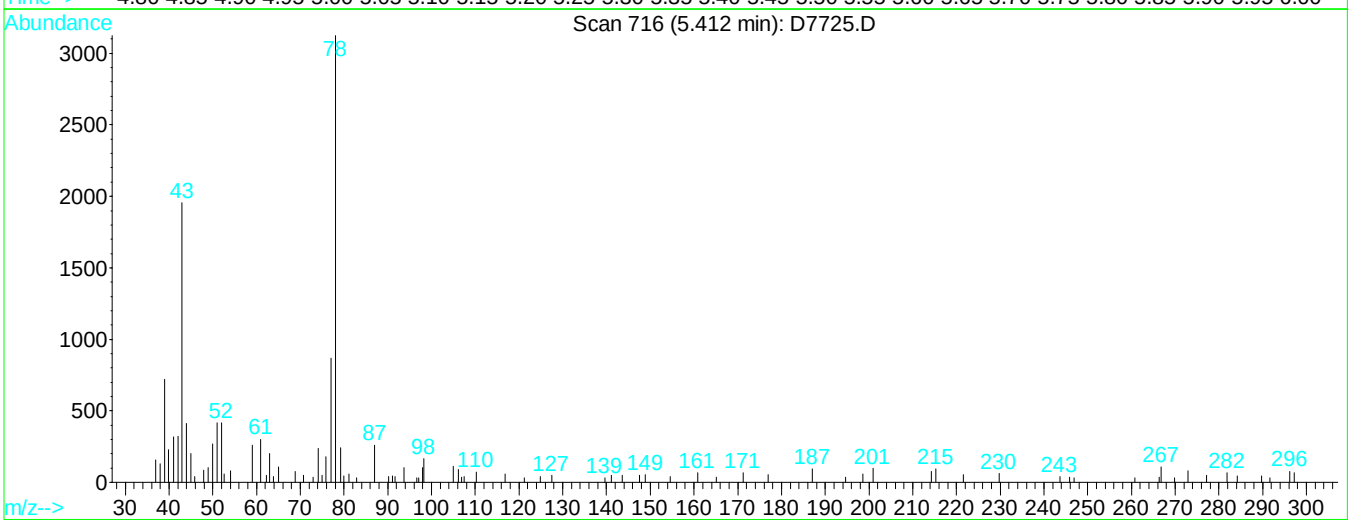
D7725.D W082417.M Fri Aug 25 10:17:40 2017

1st DL 08/25/17
2nd FW 08/26/17

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 : Single Level Calibration





TIC: D7725.D

(50) Isopropyl Acetate

5.41min 1.62ug/L

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

Manual Integration:

Before

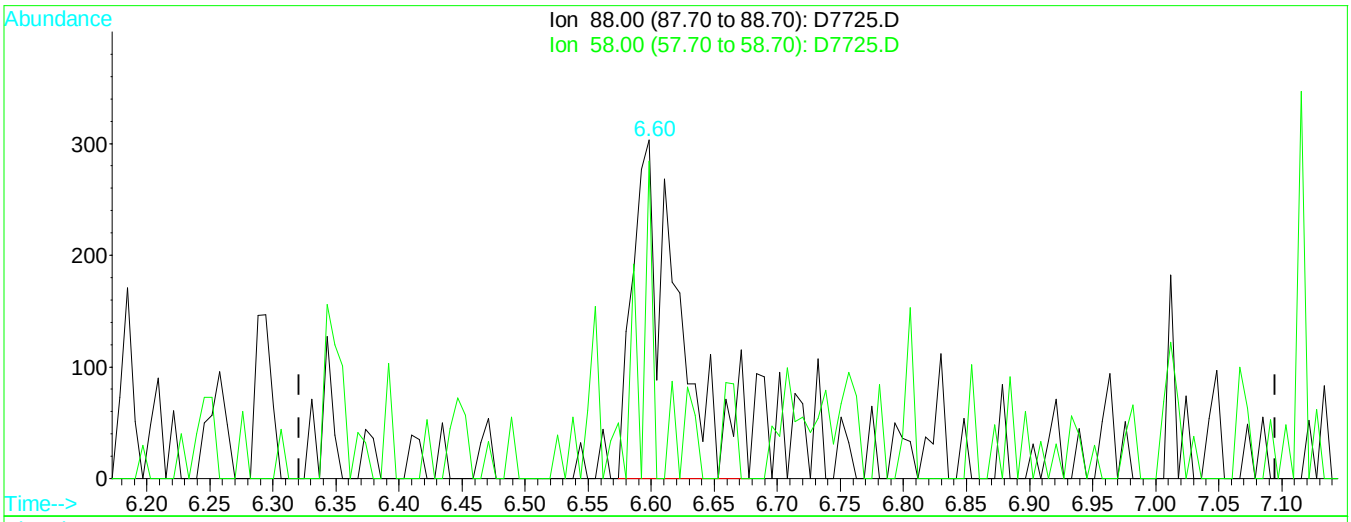
08/25/17

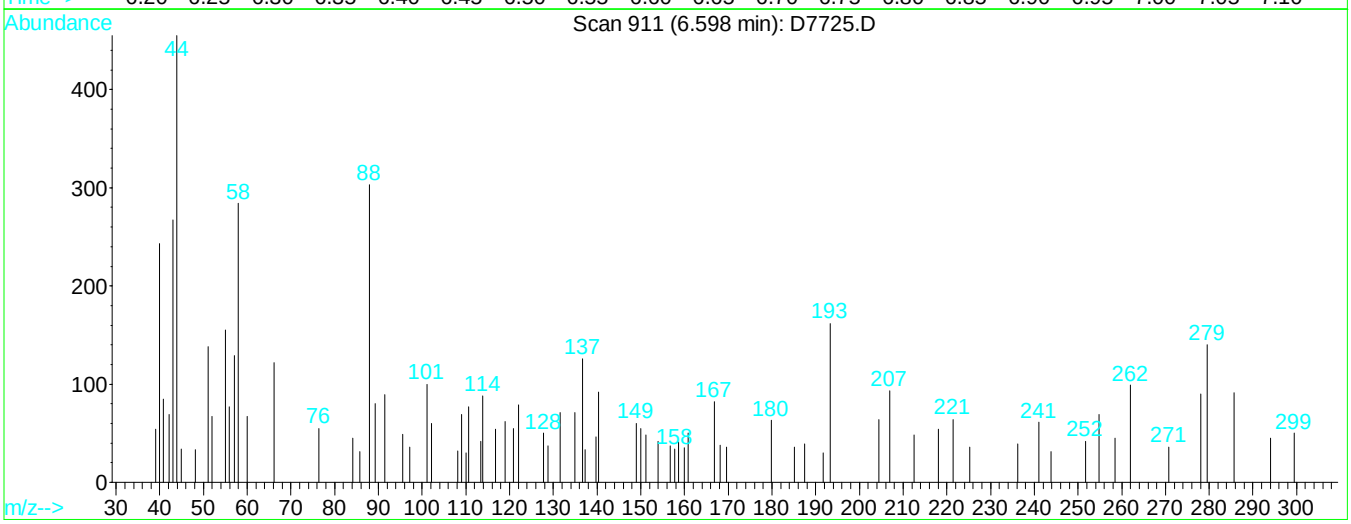
D7725.D W082417.M Fri Aug 25 10:17:27 2017

Quantitation Report (Qedit)

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

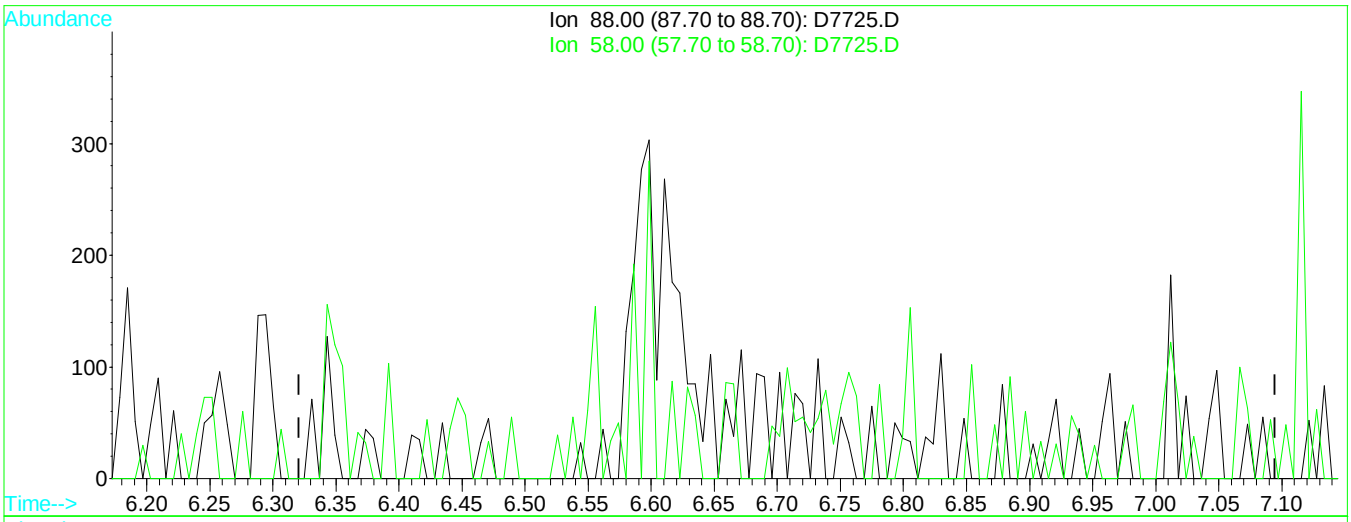
Peak not found.

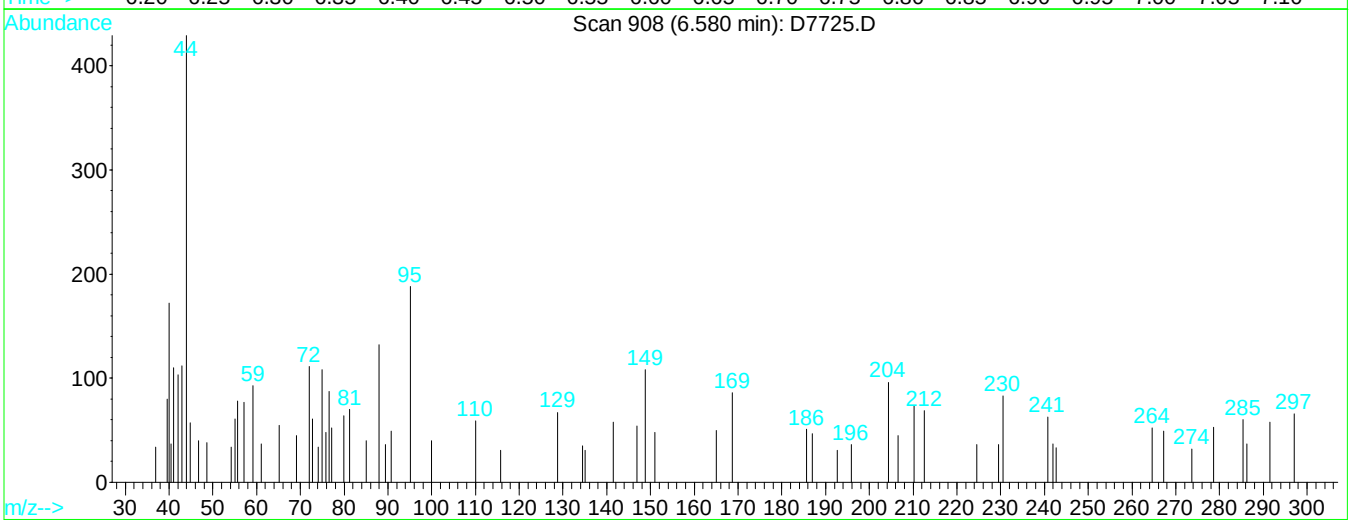
08/25/17

Quantitation Report (Qedit)

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

6.58min 0.00ug/L

response 0

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

Manual Integration:

Before

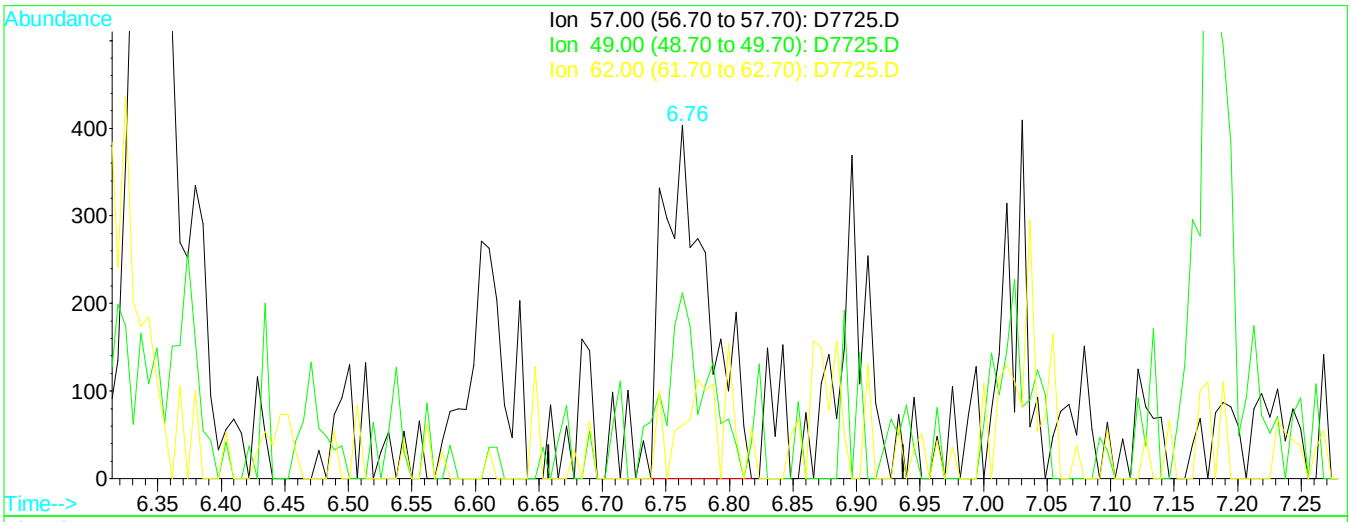
08/25/17

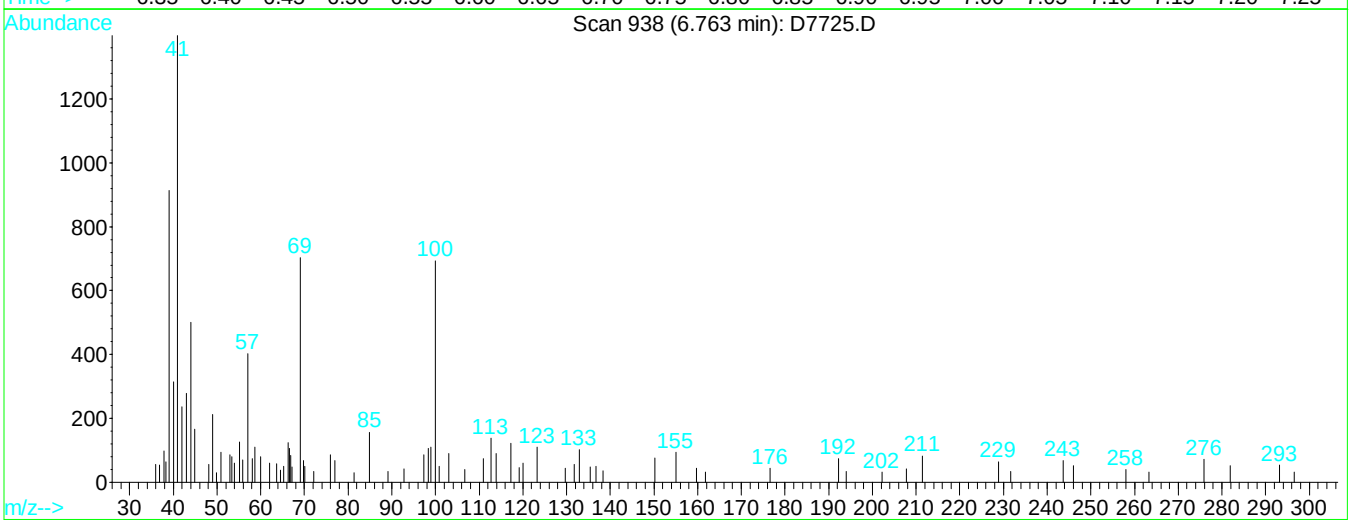
D7725.D W082417.M Fri Aug 25 10:18:10 2017

Quantitation Report (Qedit)

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

6.76min 7.14ug/L m

response 996

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

Manual Integration:

After

Split Peak.

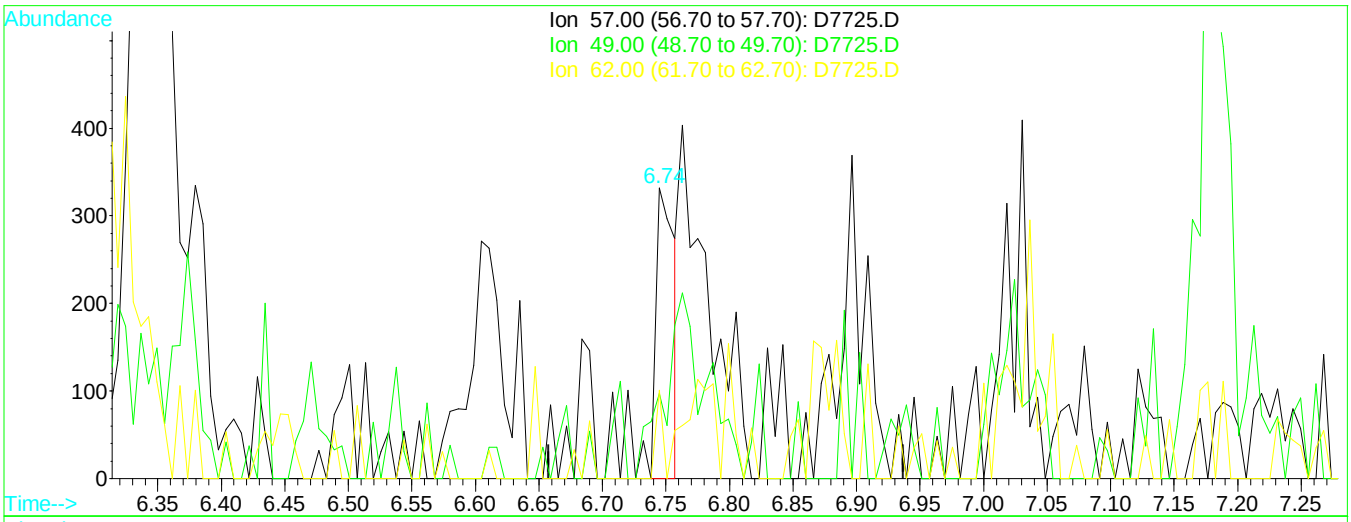
08/25/17

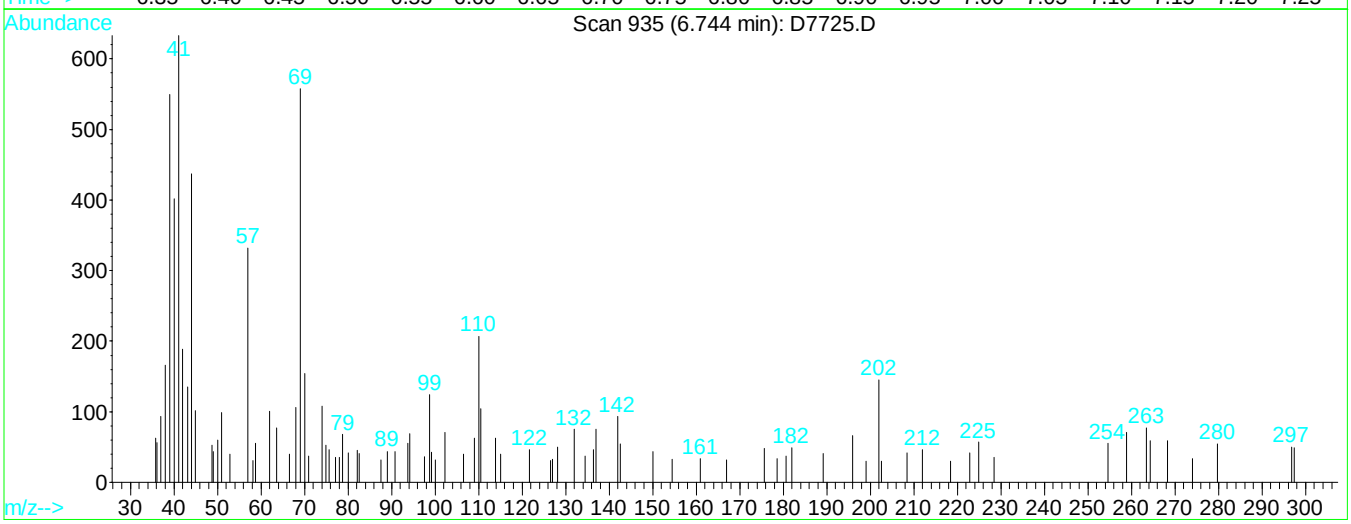
D7725.D W082417.M Fri Aug 25 10:18:36 2017

Quantitation Report (Qedit)

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

6.74min 2.36ug/L

response 330

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

Manual Integration:

Before

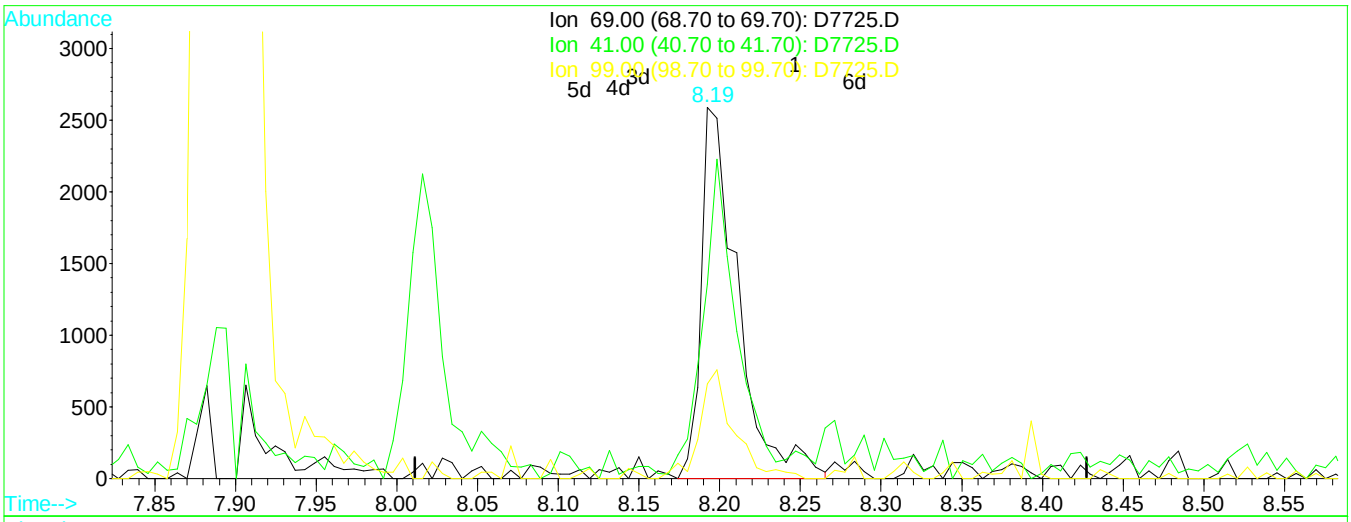
08/25/17

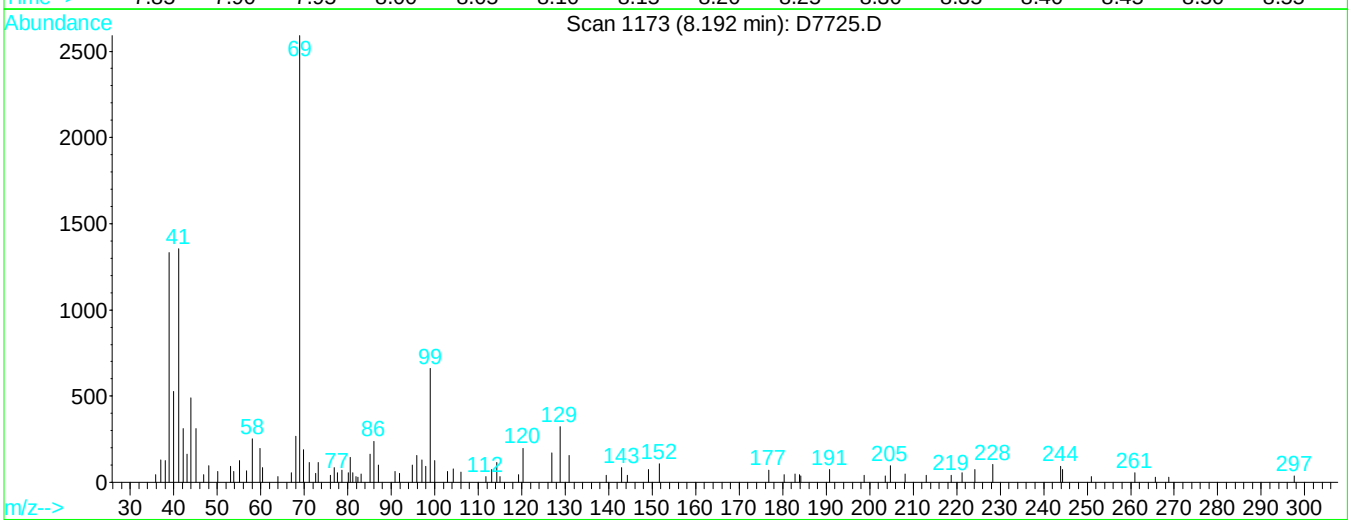
D7725.D W082417.M Fri Aug 25 10:18:31 2017

Quantitation Report (Qedit)

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

8.19min 1.80ug/L m

response 4100

Ion	Exp%	Act%
69.00	100	100
41.00	76.30	52.34#
99.00	24.30	25.47
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

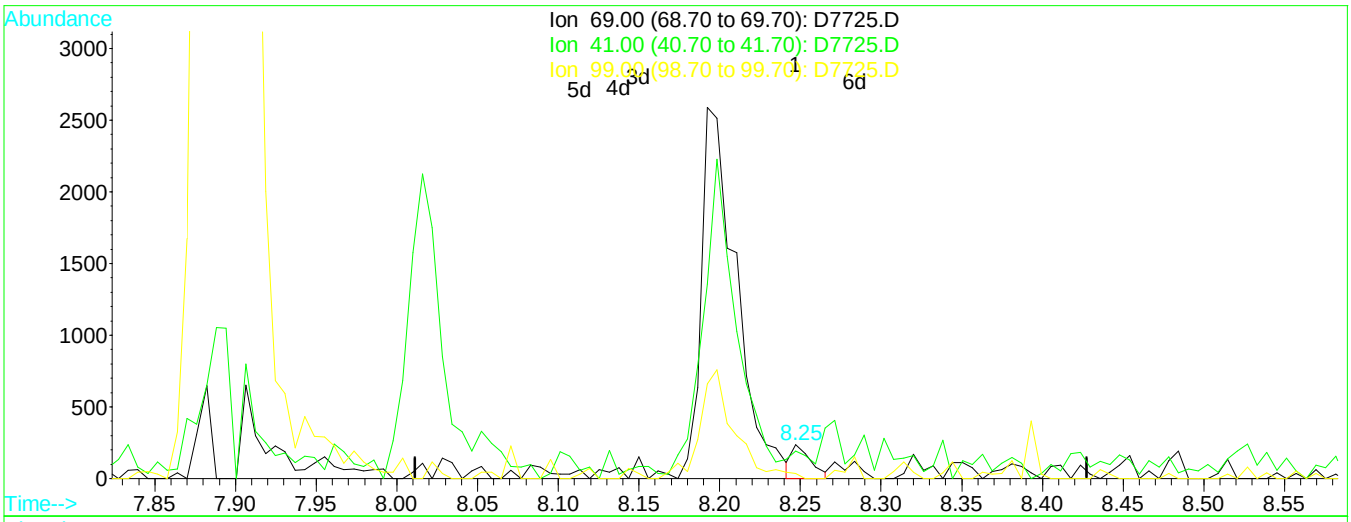
08/25/17

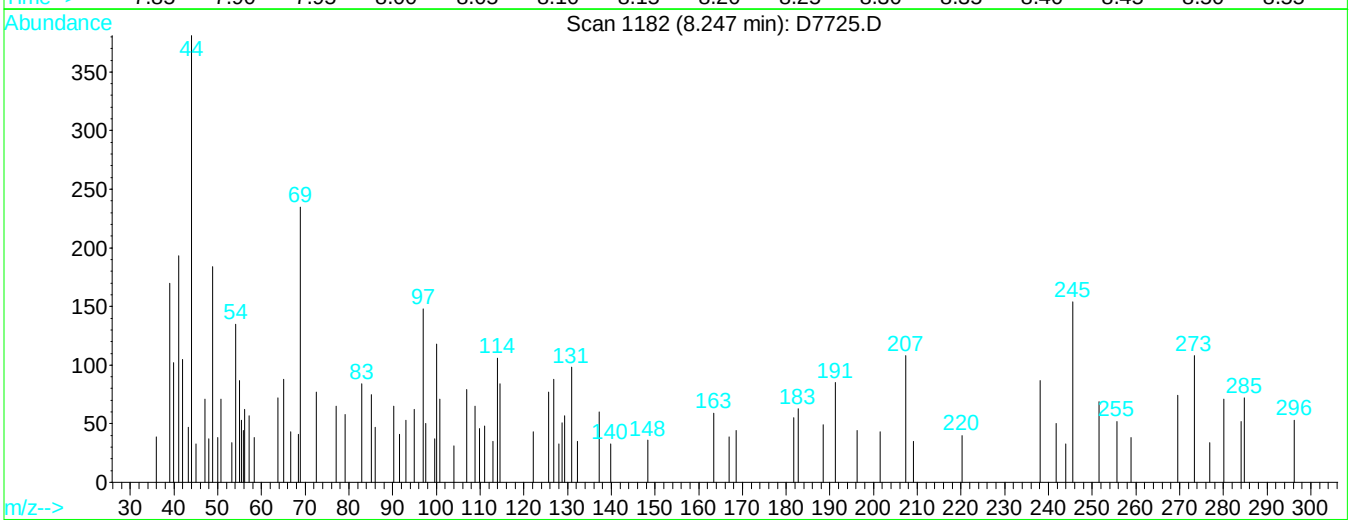
D7725.D W082417.M Fri Aug 25 10:19:18 2017

Quantitation Report (Qedit)

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

8.25min 0.09ug/L

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

Manual Integration:

Before

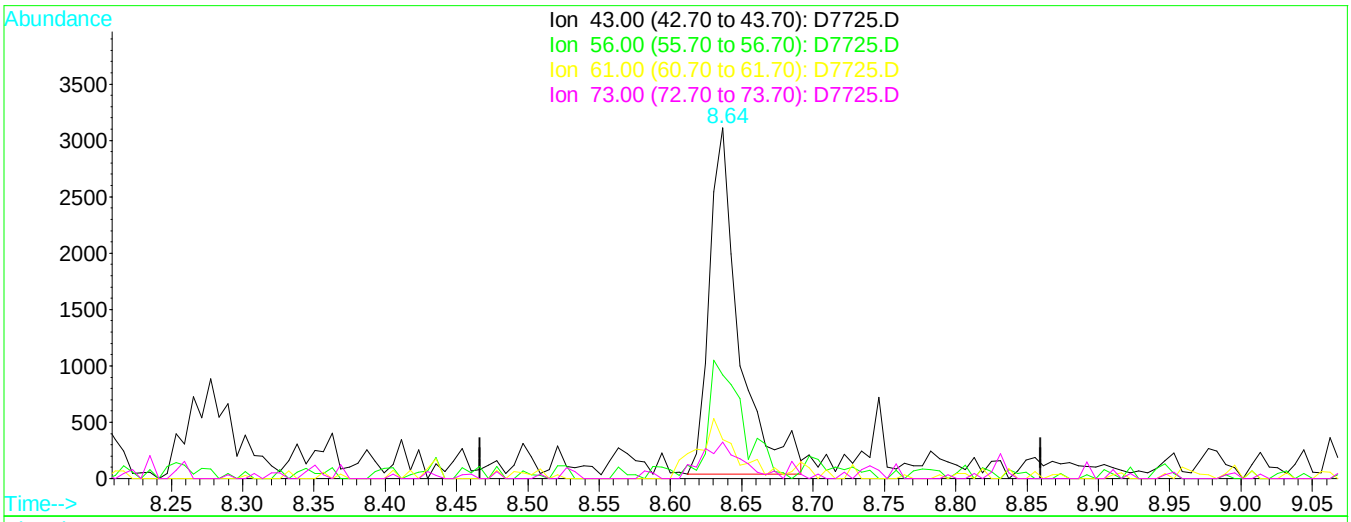
08/25/17

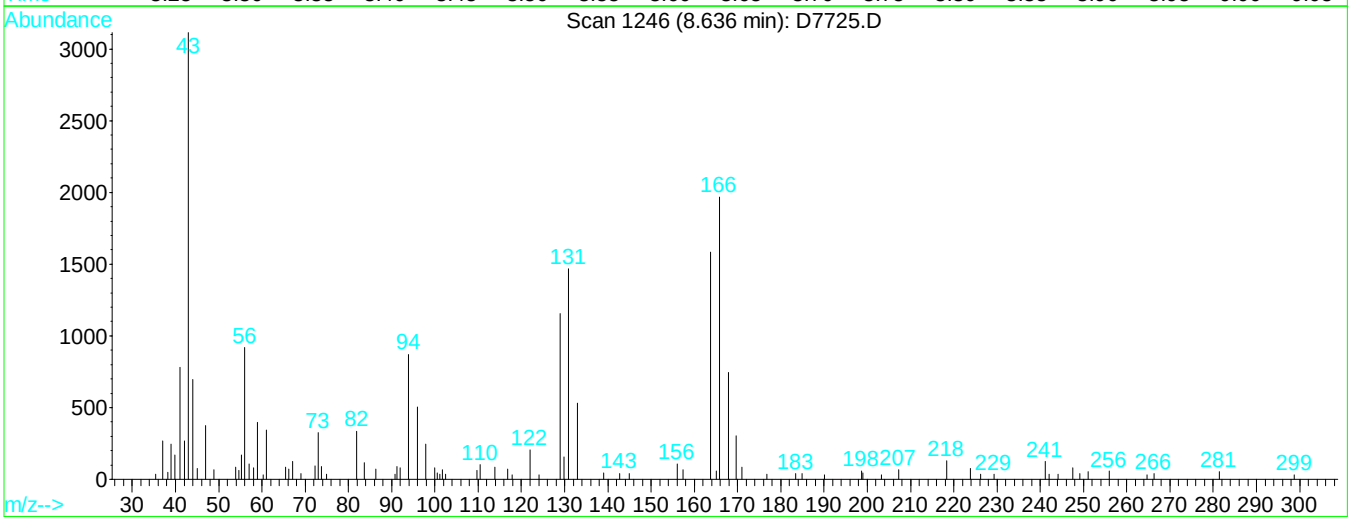
D7725.D W082417.M Fri Aug 25 10:19:07 2017

1st DL 08/25/17
2nd FW 08/26/17

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

8.64min 1.72ug/L m

response 4451

Ion	Exp%	Act%
43.00	100	100
56.00	38.90	28.44
61.00	21.20	0.00#
73.00	15.20	0.00

Manual Integration:

After

Split Peak.

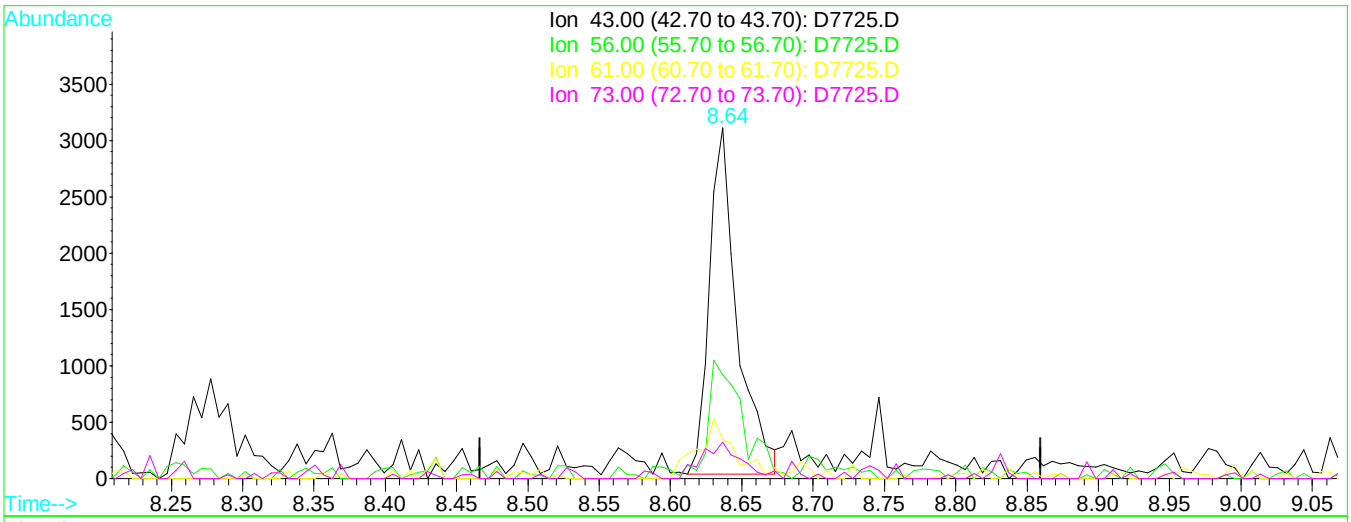
08/25/17

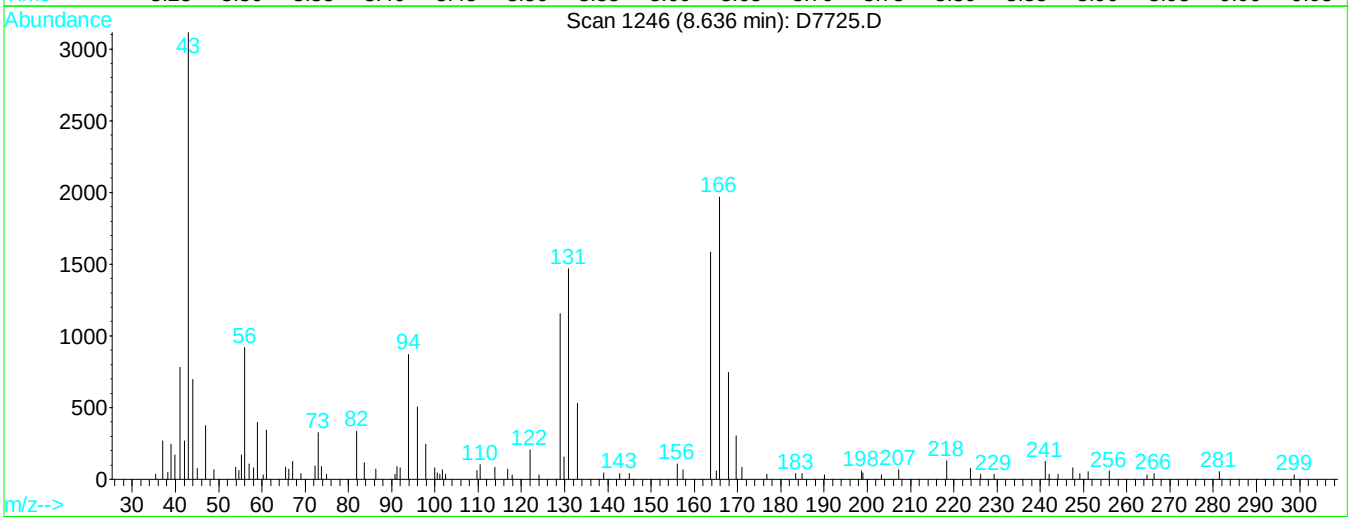
D7725.D W082417.M Fri Aug 25 10:20:08 2017

1st DL 08/25/17
2nd FW 08/26/17

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 10:19 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

8.64min 1.61ug/L

response 4170

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

Manual Integration:

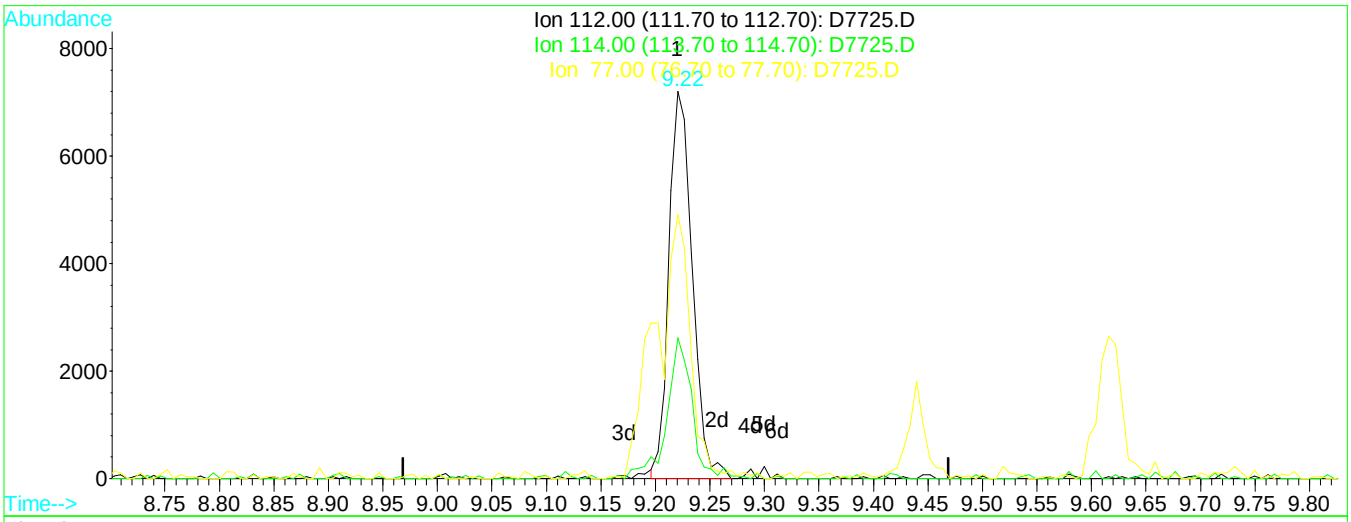
Before

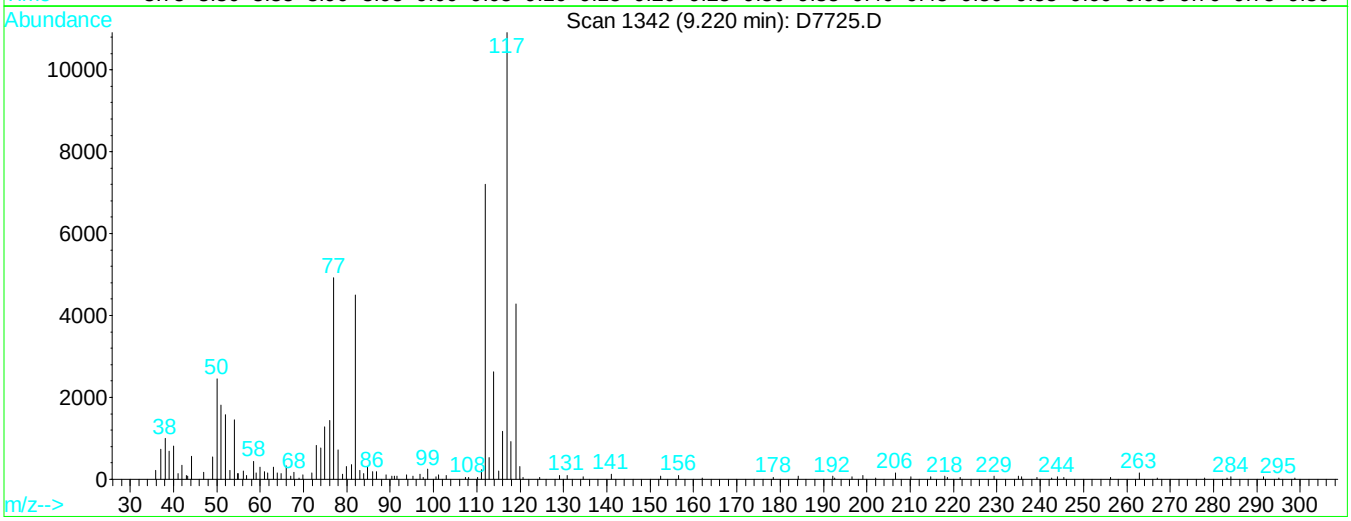
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

(76) Chlorobenzene (P)

9.22min 2.02ug/L m

response 10700

Ion	Exp%	Act%
112.00	100	100
114.00	34.20	33.65
77.00	56.20	56.90
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

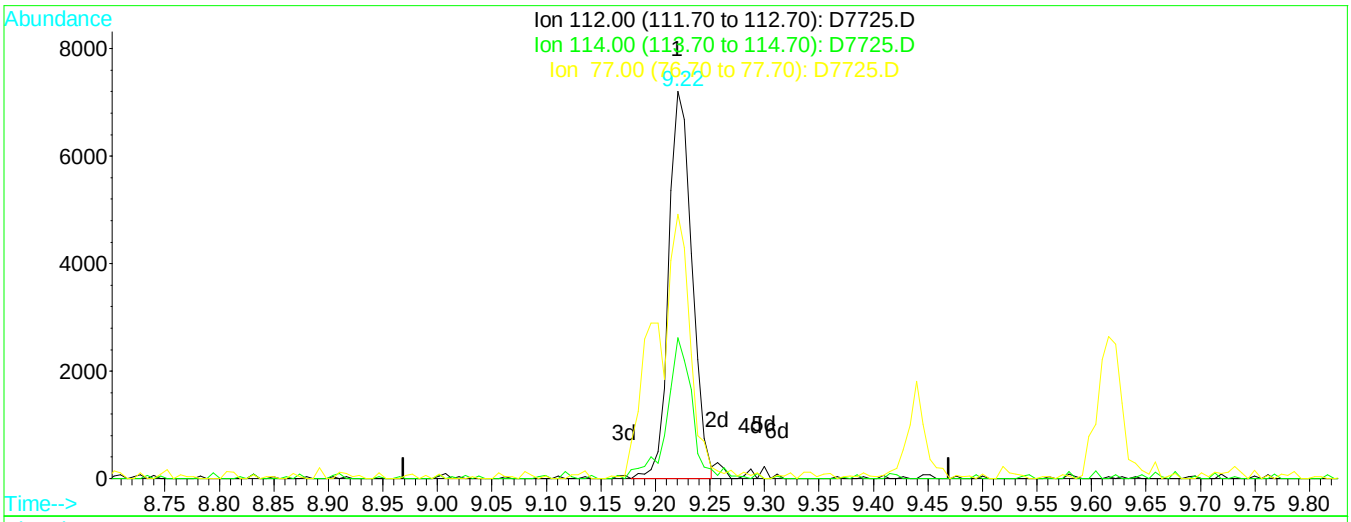
08/25/17

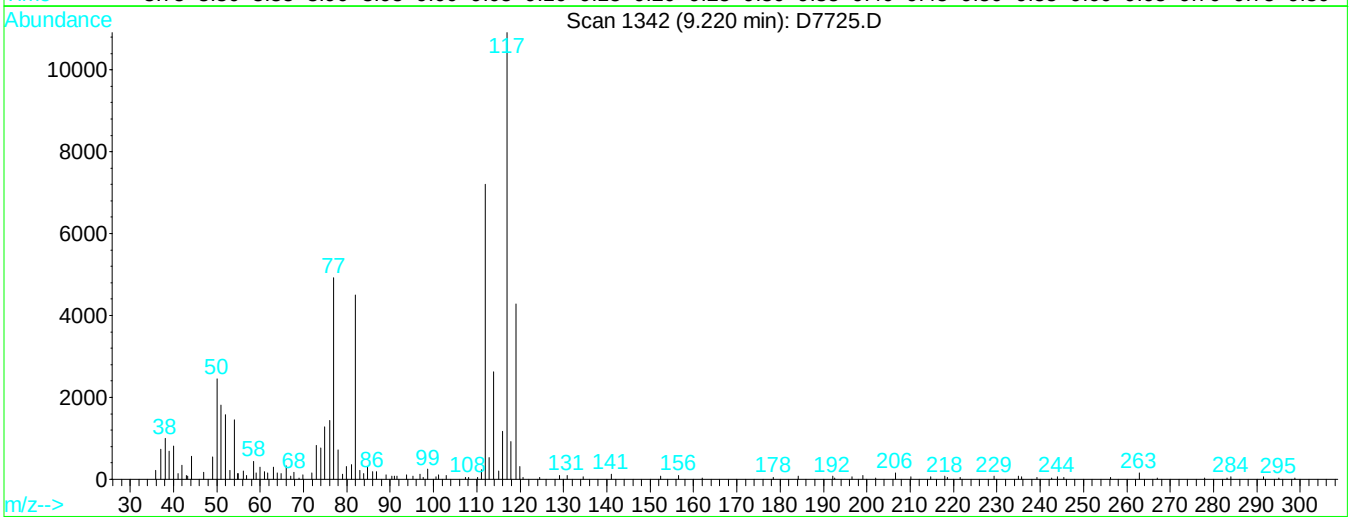
D7725.D W082417.M Fri Aug 25 10:21:06 2017

1st DL 08/25/17
2nd FW 08/26/17

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

(76) Chlorobenzene (P)

9.22min 2.01ug/L

response 10647

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

Manual Integration:

Before

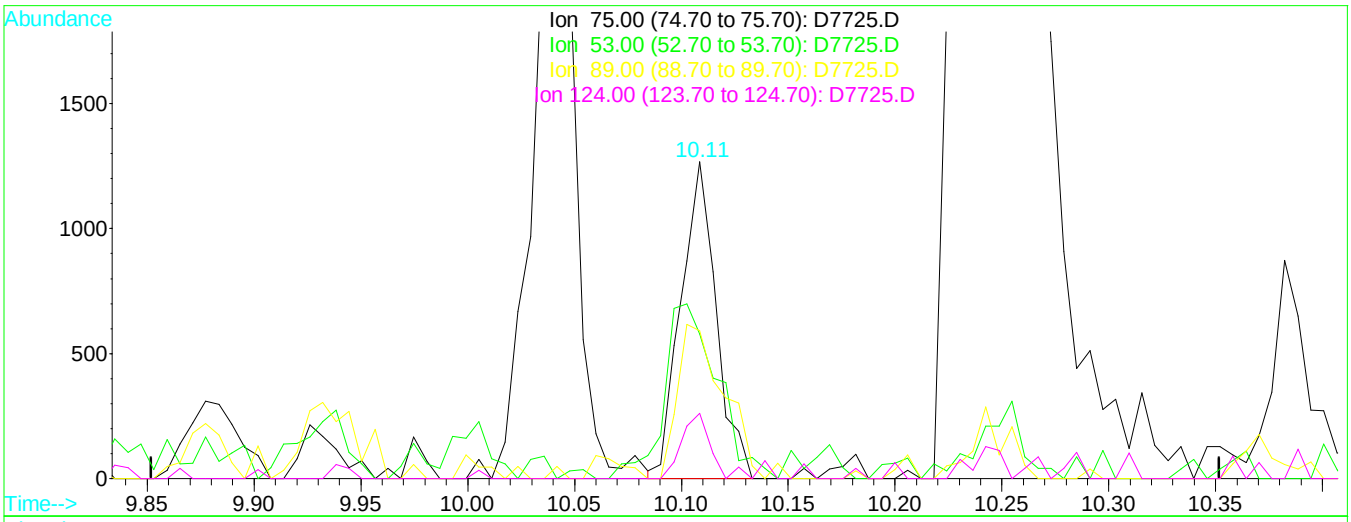
08/25/17

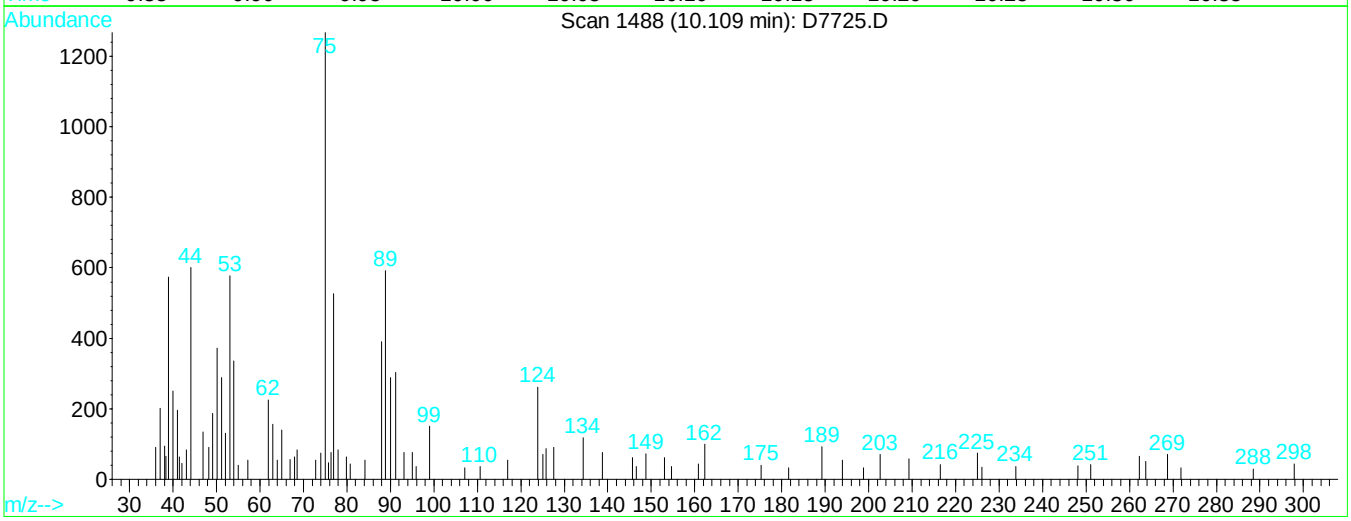
D7725.D W082417.M Fri Aug 25 10:20:49 2017

Quantitation Report (Qedit)

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

10.11min 1.86ug/L m

response 1456

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

Manual Integration:

After

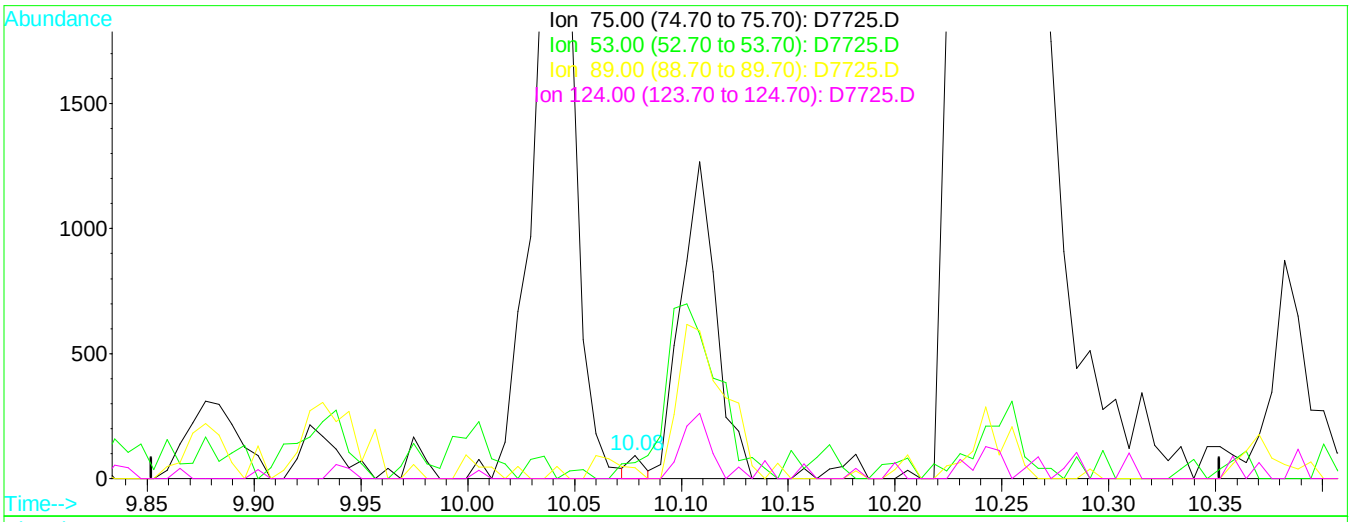
Peak not found.

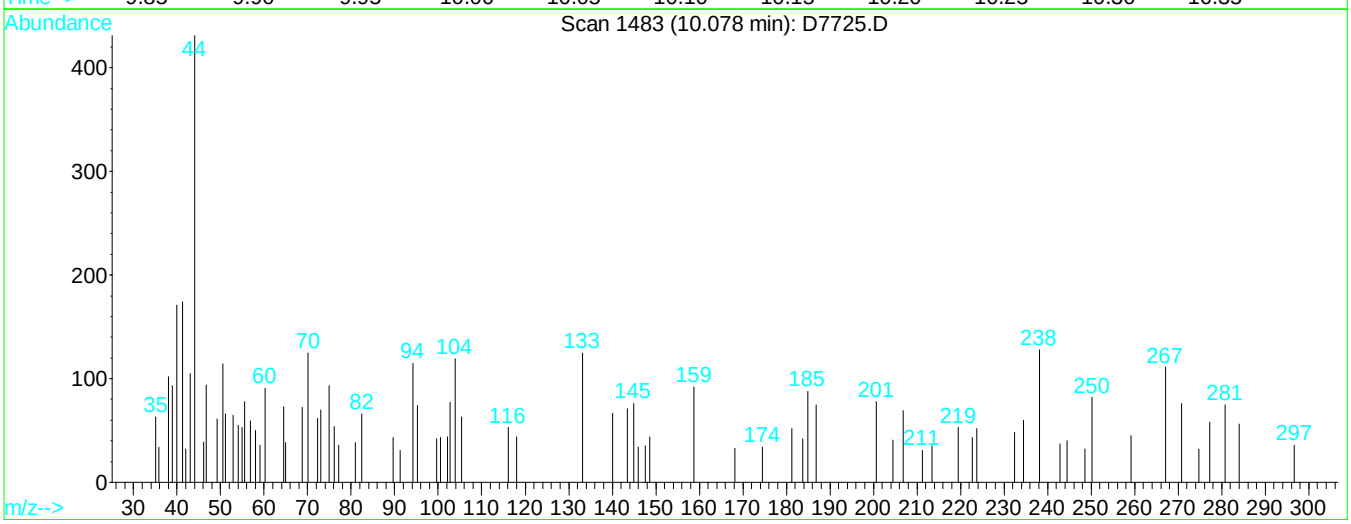
08/25/17

Quantitation Report (Qedit)

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

10.08min 0.06ug/L

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

Manual Integration:

Before

08/25/17

1st DL 08/25/17
2nd FJ 08/26/17

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) SURR3,Toluene-d8	7.89	98	446717	63.83	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 127.66%#				
86) SURR2,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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

	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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

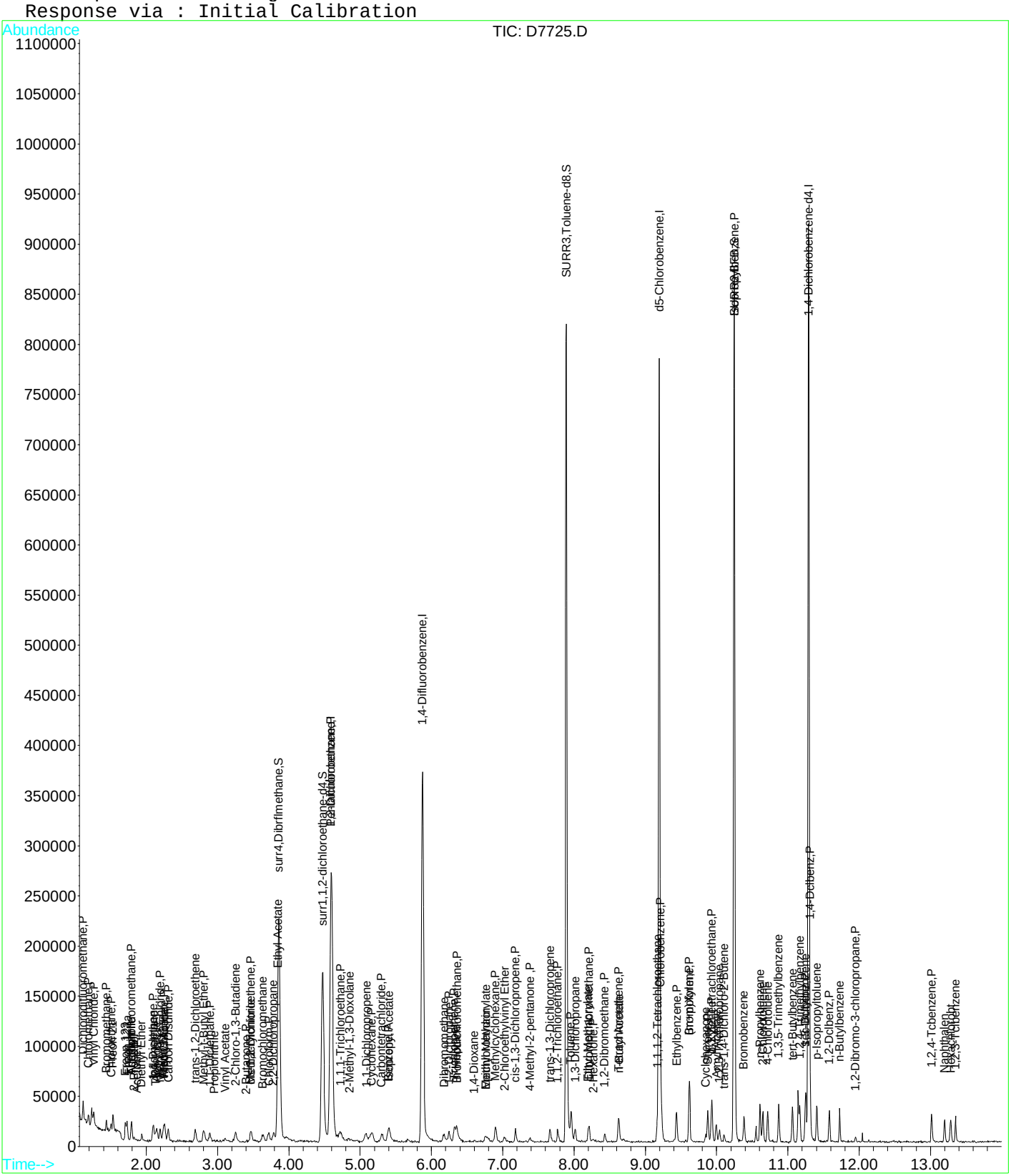
Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 10:05:39 2017
Response via : Initial Calibration
DataAcq Meth : W082417

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

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

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

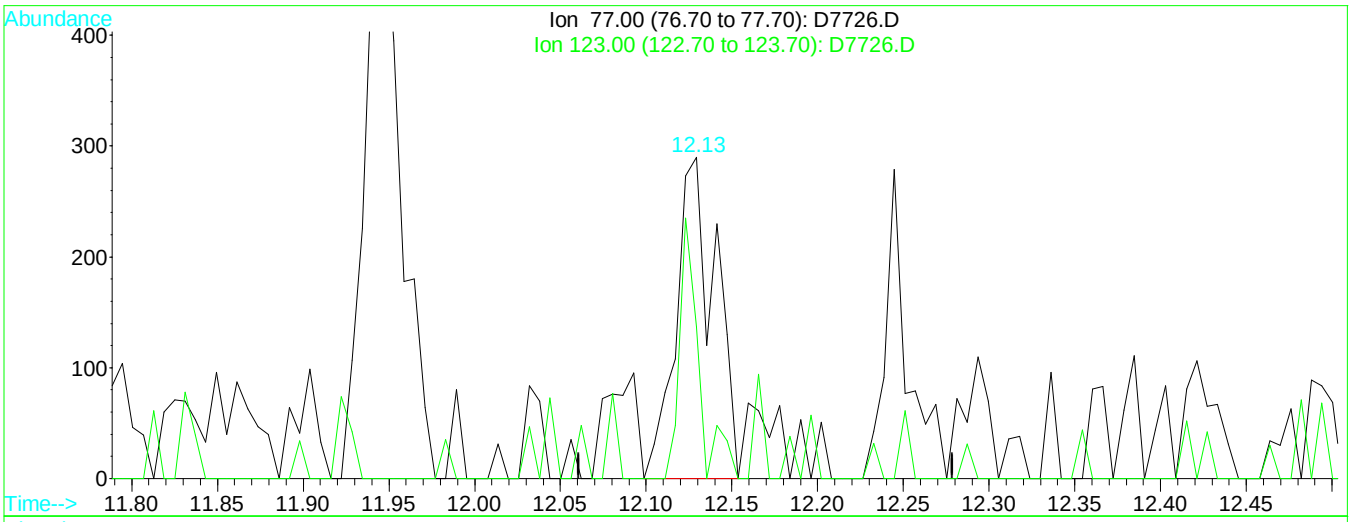
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 10:05:39 2017
Response via : Initial Calibration

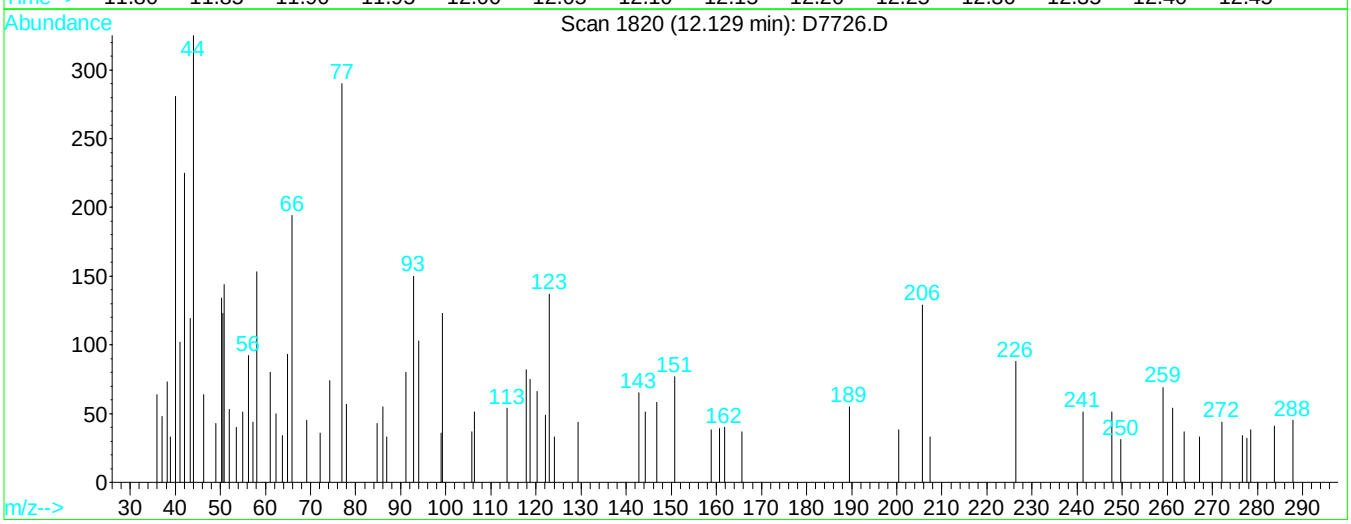


1st DL 08/25/17
2nd FW 08/26/17

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: 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

12.13min 15.77ug/L m

response 460

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

Manual Integration:

After

Split Peak.

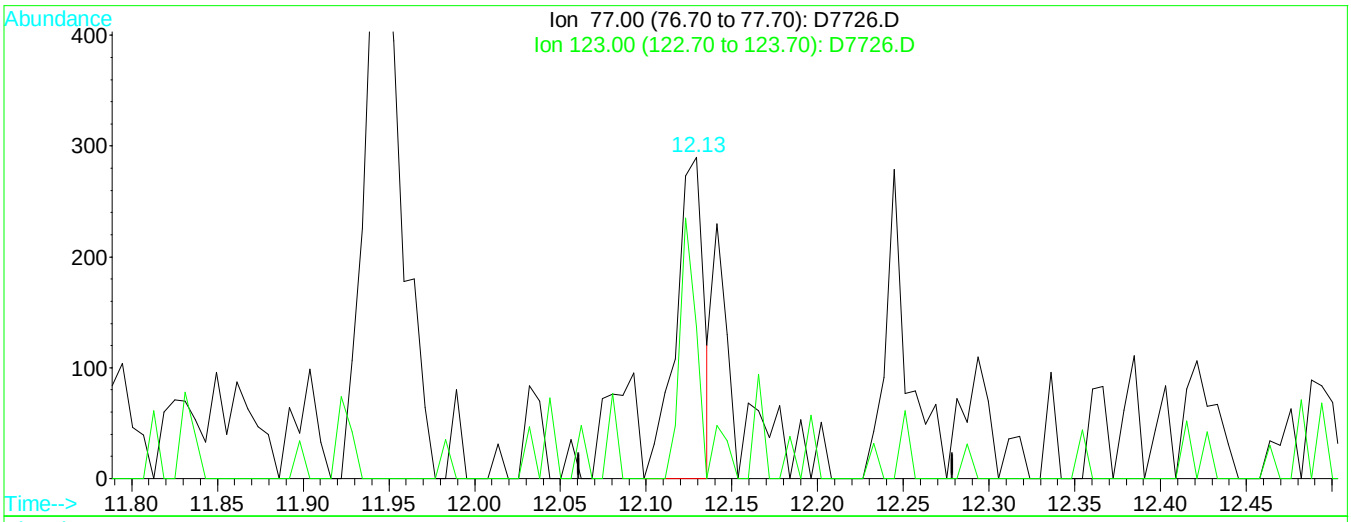
08/25/17

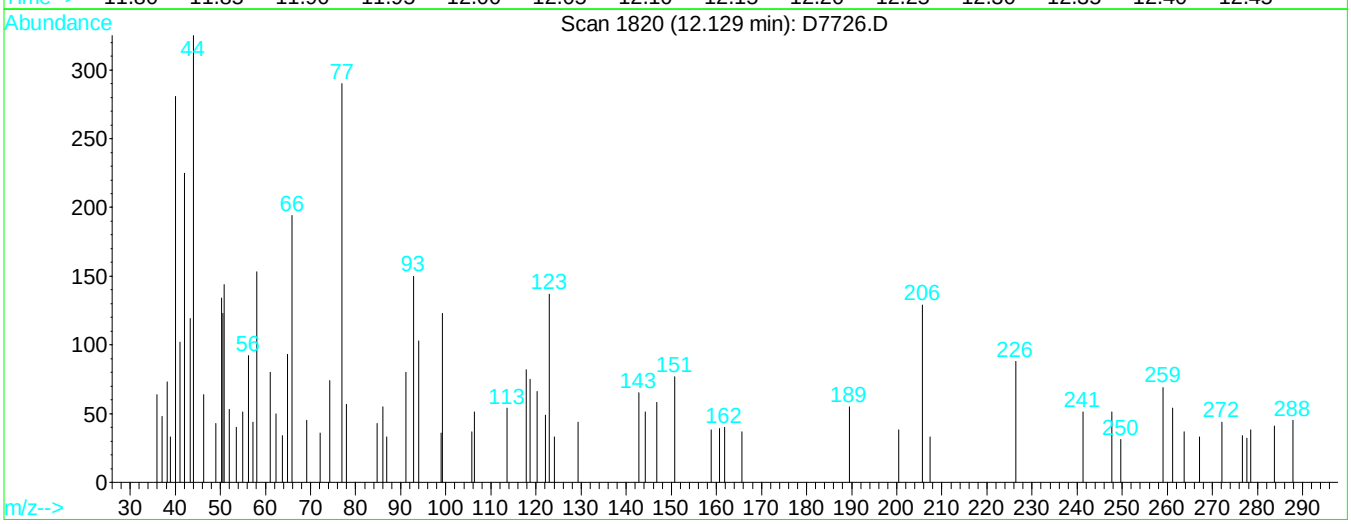
D7726.D W082417.M Fri Aug 25 10:54:02 2017

Quantitation Report (Qedit)

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

(104) Nitrobenzene

12.13min 11.28ug/L

response 329

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

Manual Integration:

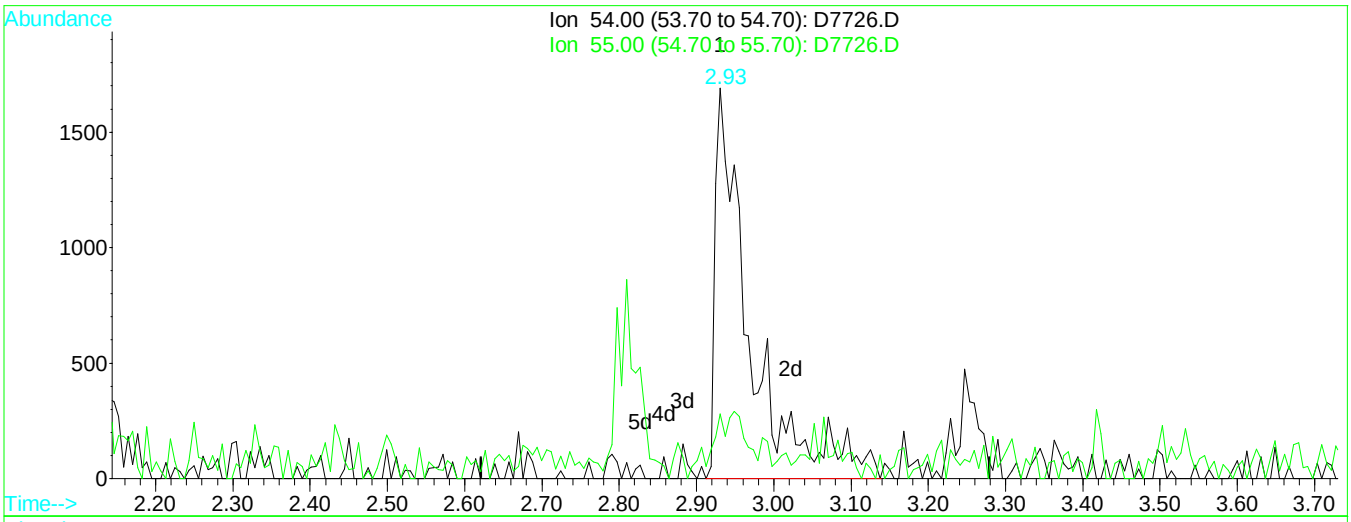
Before

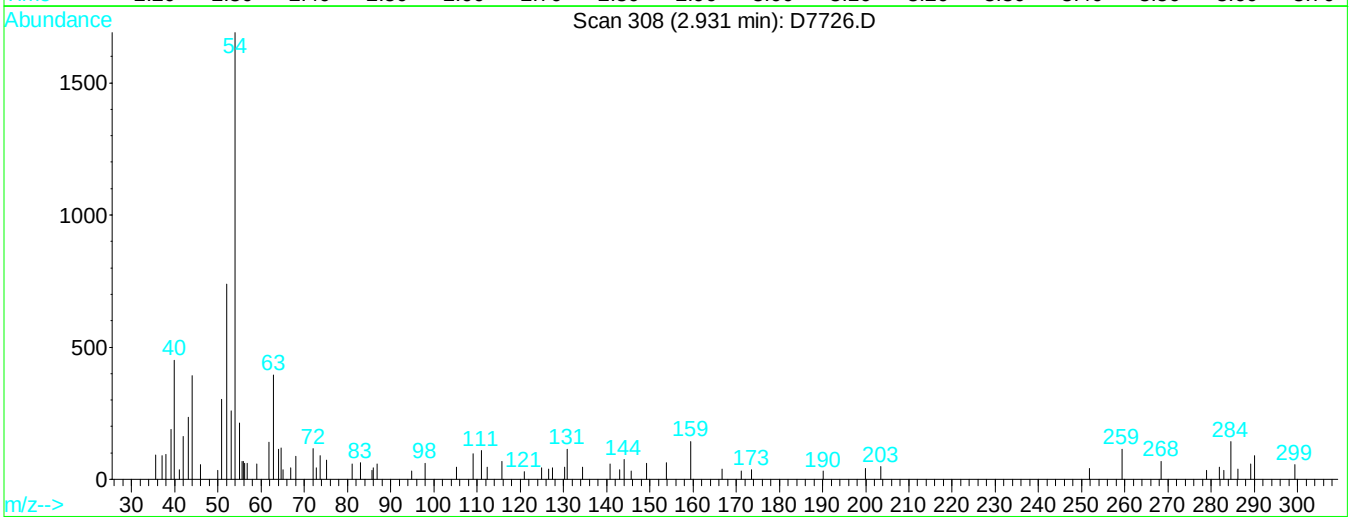
08/25/17

Quantitation Report (Qedit)

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

2.93min 25.57ug/L m

response 5242

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

Manual Integration:

After

Split Peak.

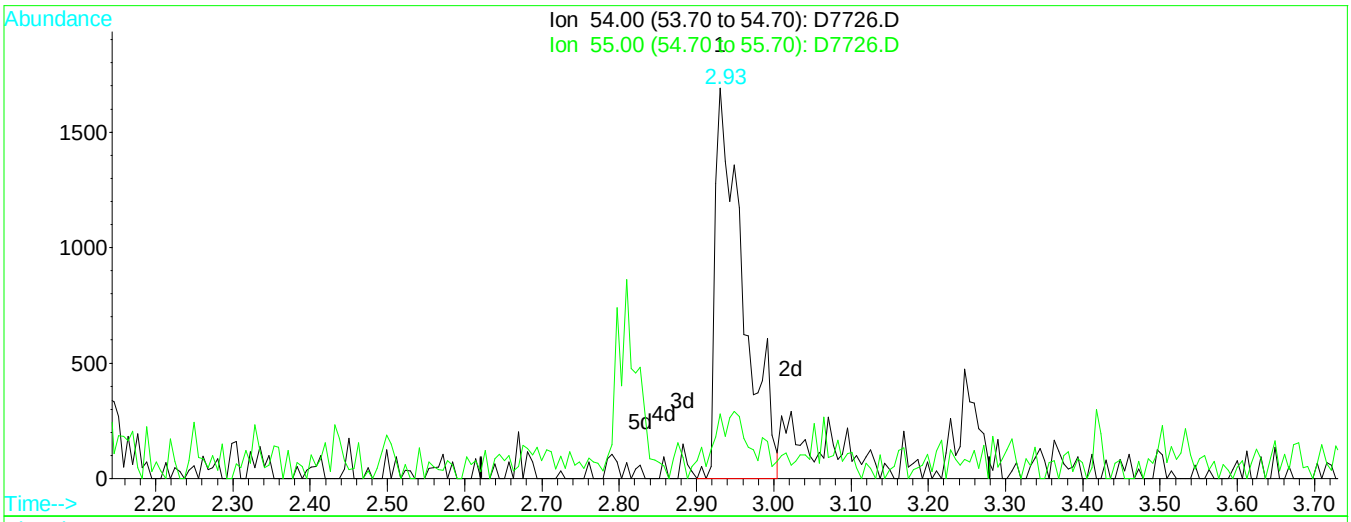
08/25/17

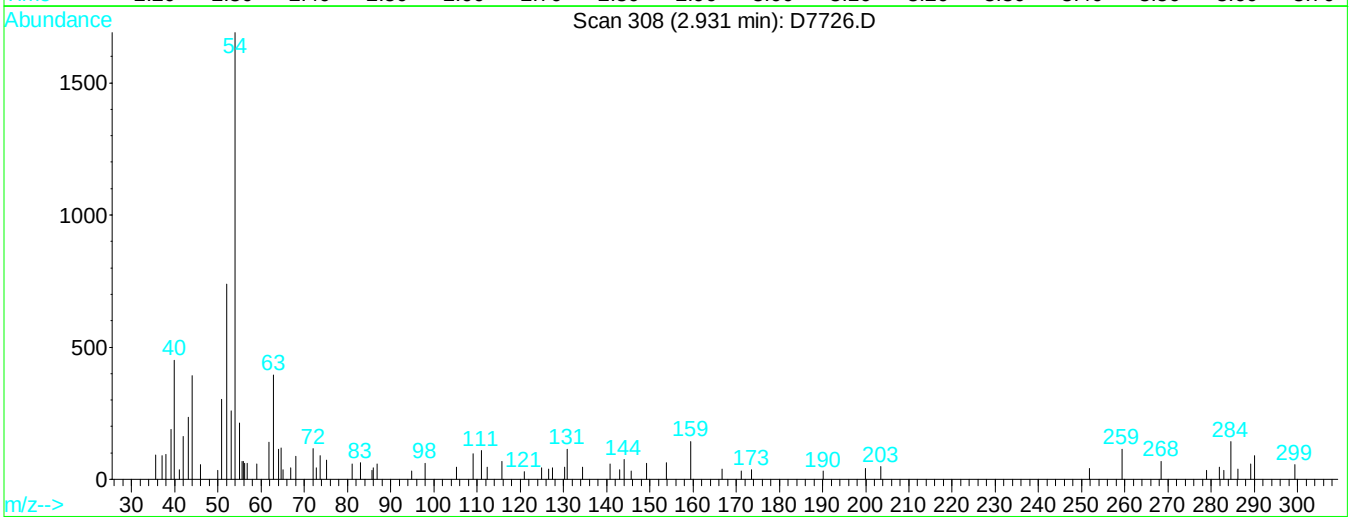
D7726.D W082417.M Fri Aug 25 10:47:10 2017

Quantitation Report (Qedit)

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

2.93min 20.45ug/L

response 4192

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

Manual Integration:

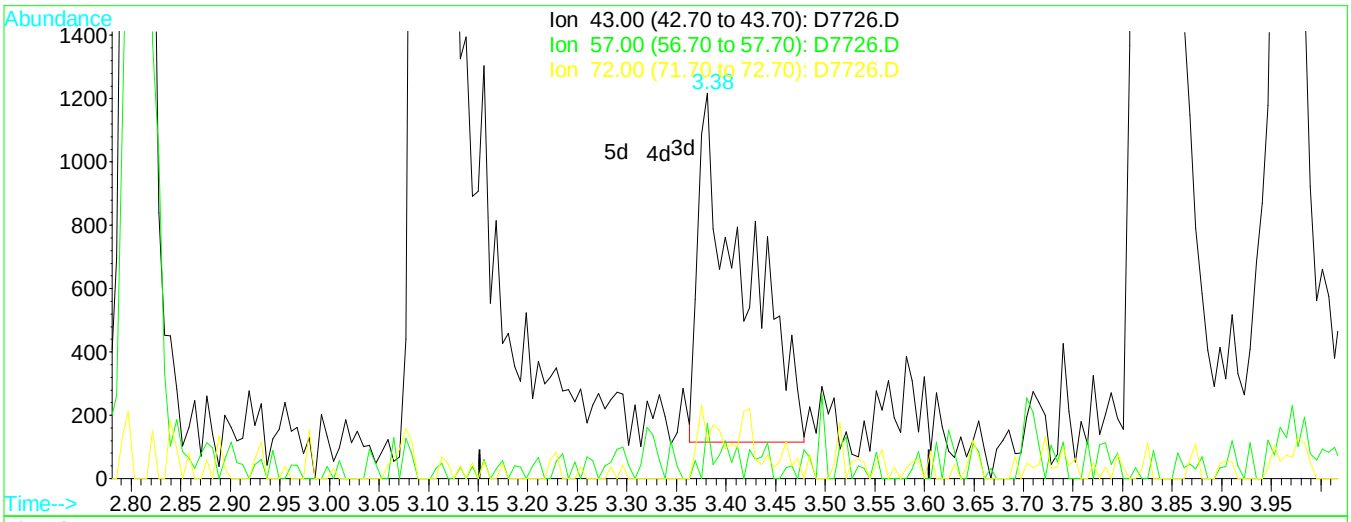
Before

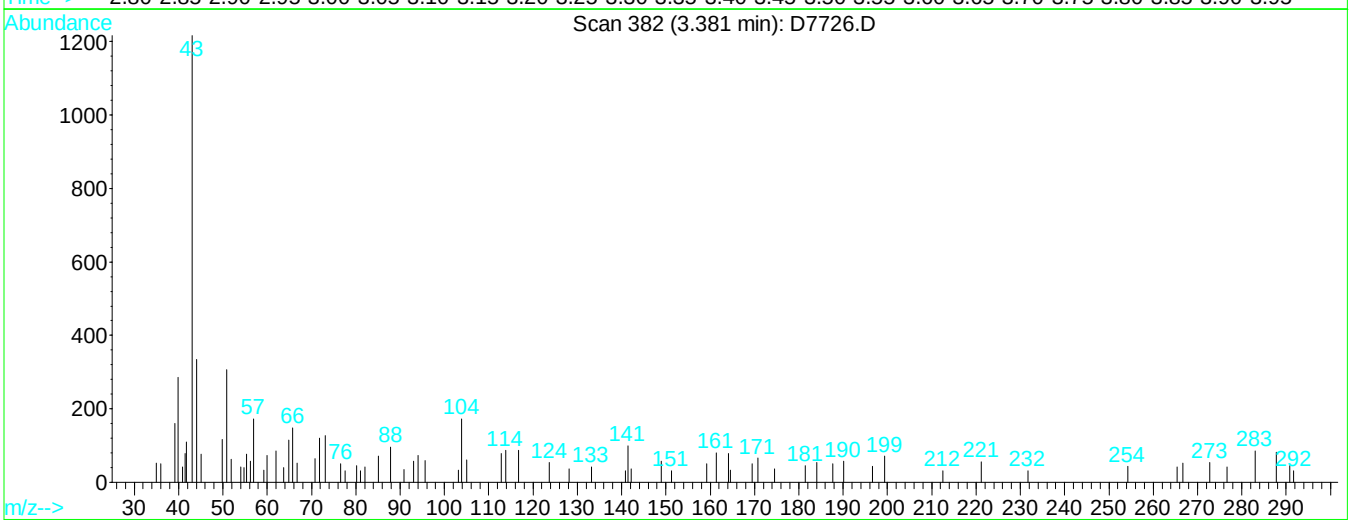
08/25/17

Quantitation Report (Qedit)

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)

3.38min 5.11ug/L m

response 3507

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

Manual Integration:

After

Split Peak.

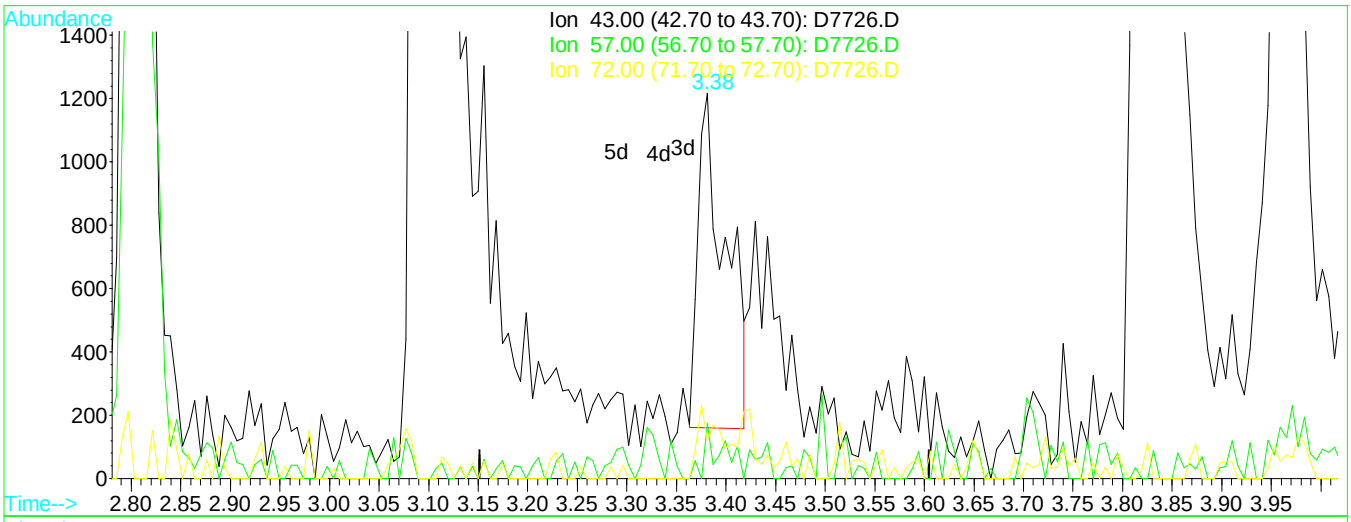
08/25/17

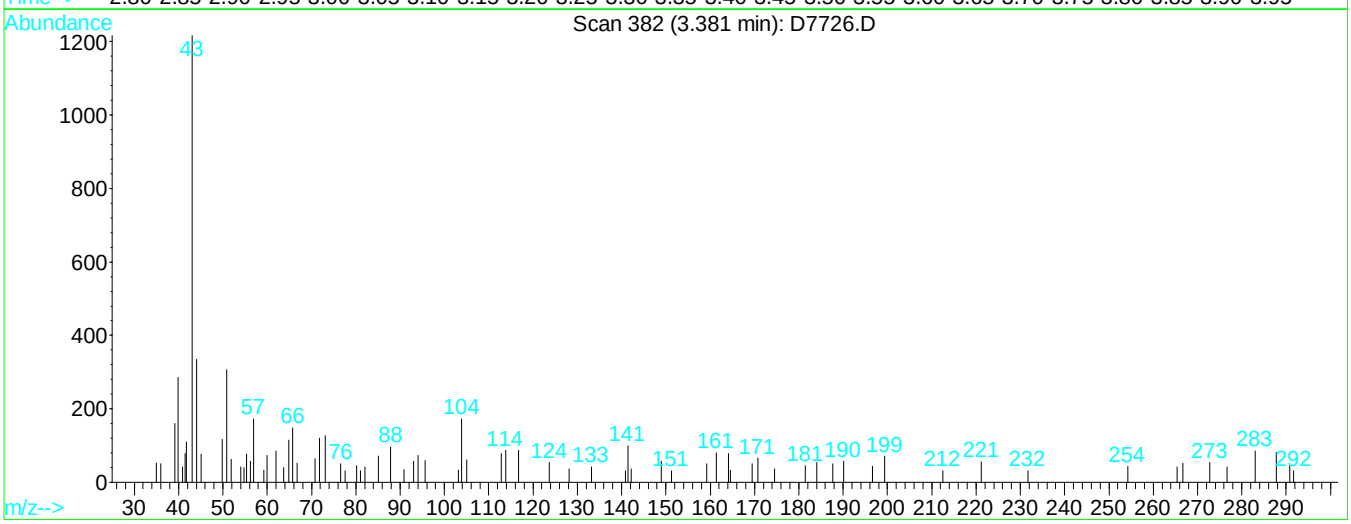
D7726.D W082417.M Fri Aug 25 10:47:46 2017

Quantitation Report (Qedit)

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)

3.38min 2.98ug/L

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

Manual Integration:

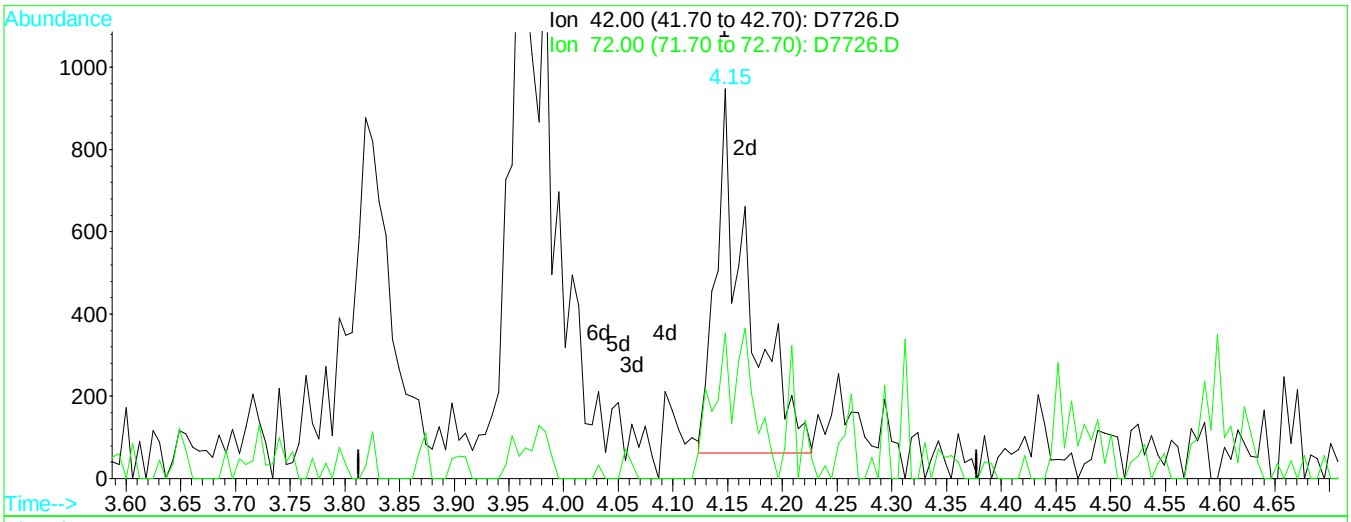
Before

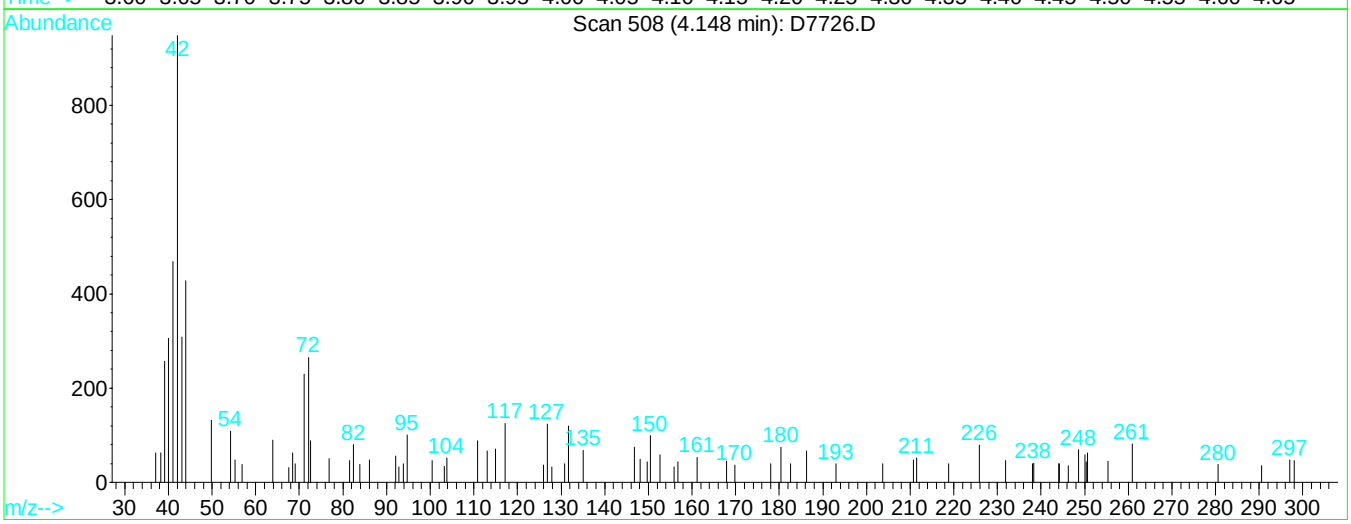
08/25/17

Quantitation Report (Qedit)

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

4.15min 4.32ug/L m

response 1796

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

Manual Integration:

After

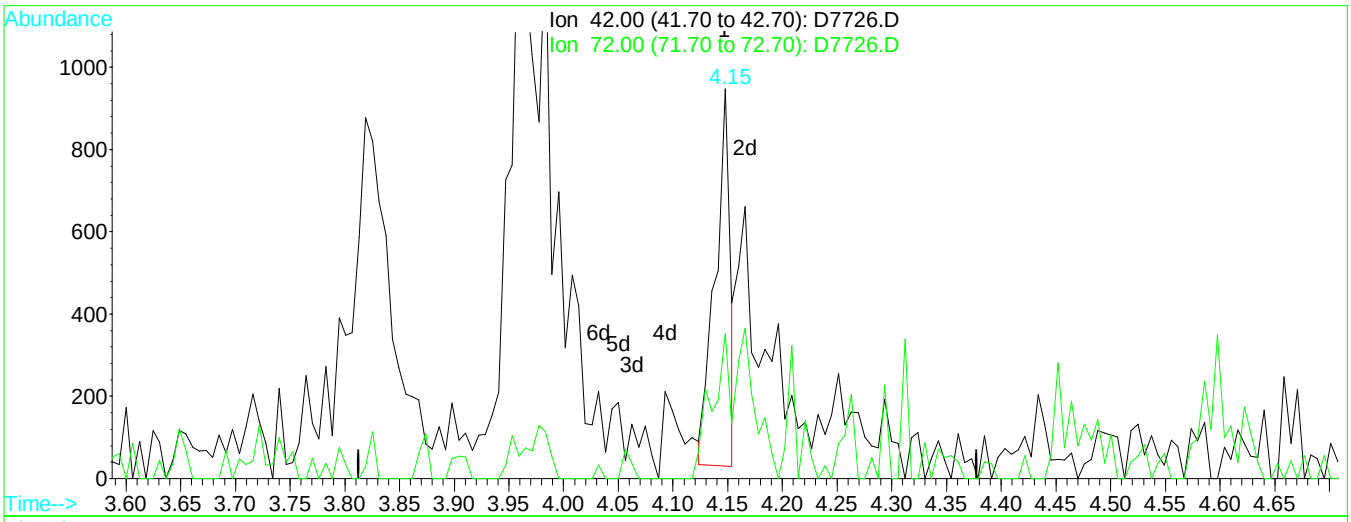
Split Peak.

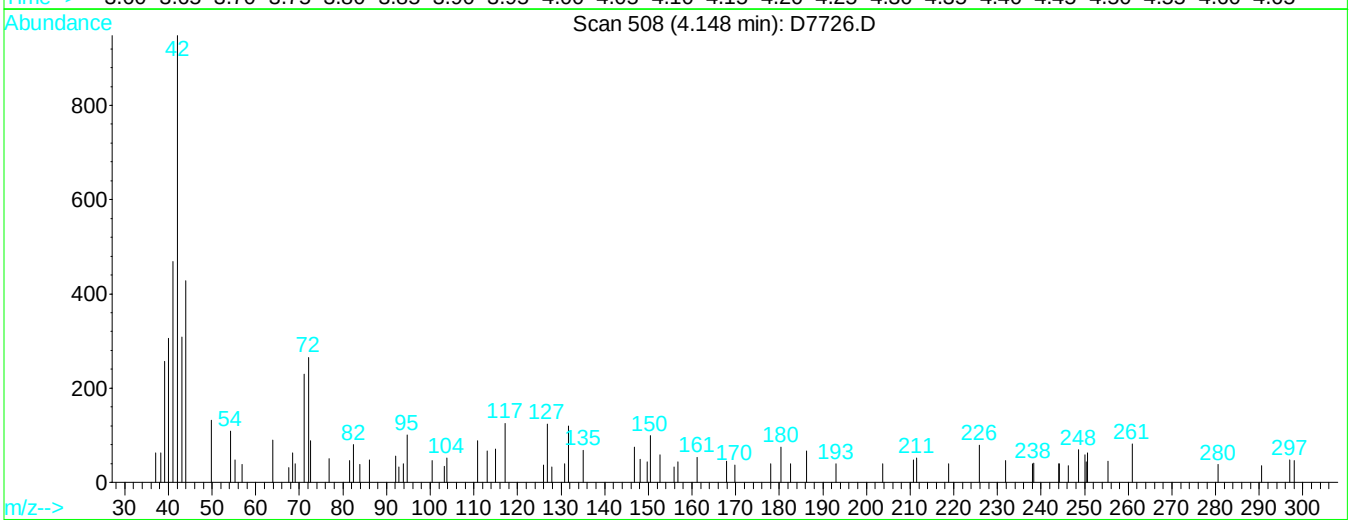
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

(38) Tetrahydrofuran

4.15min 2.11ug/L

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

Manual Integration:

Before

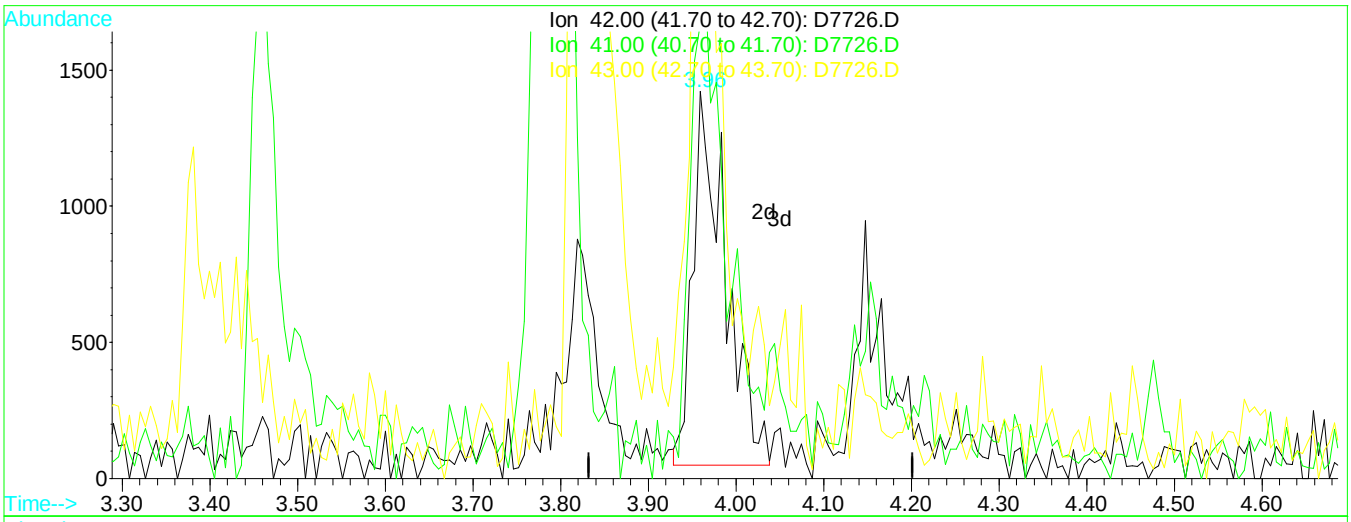
08/25/17

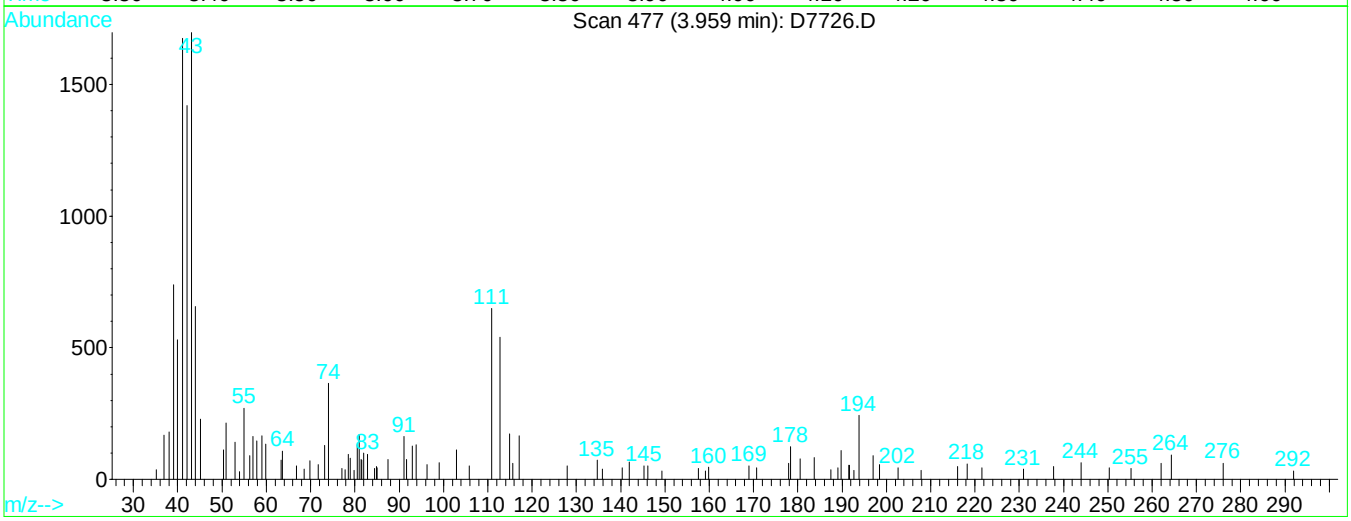
D7726.D W082417.M Fri Aug 25 10:48:13 2017

Quantitation Report (Qedit)

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.

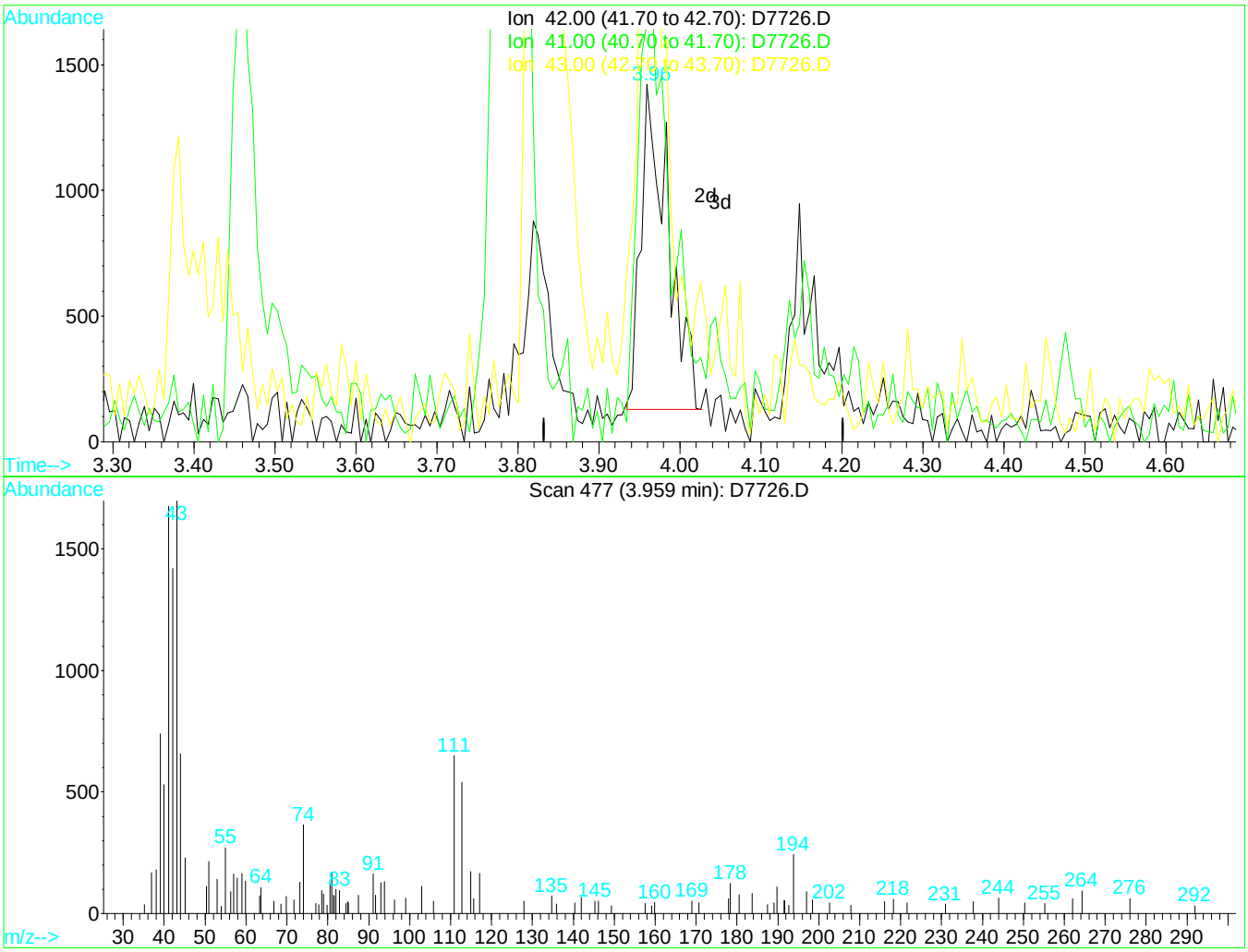
08/25/17

D7726.D W082417.M Fri Aug 25 10:48:58 2017

Quantitation Report (Qedit)

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 75.49ug/L

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

Manual Integration:

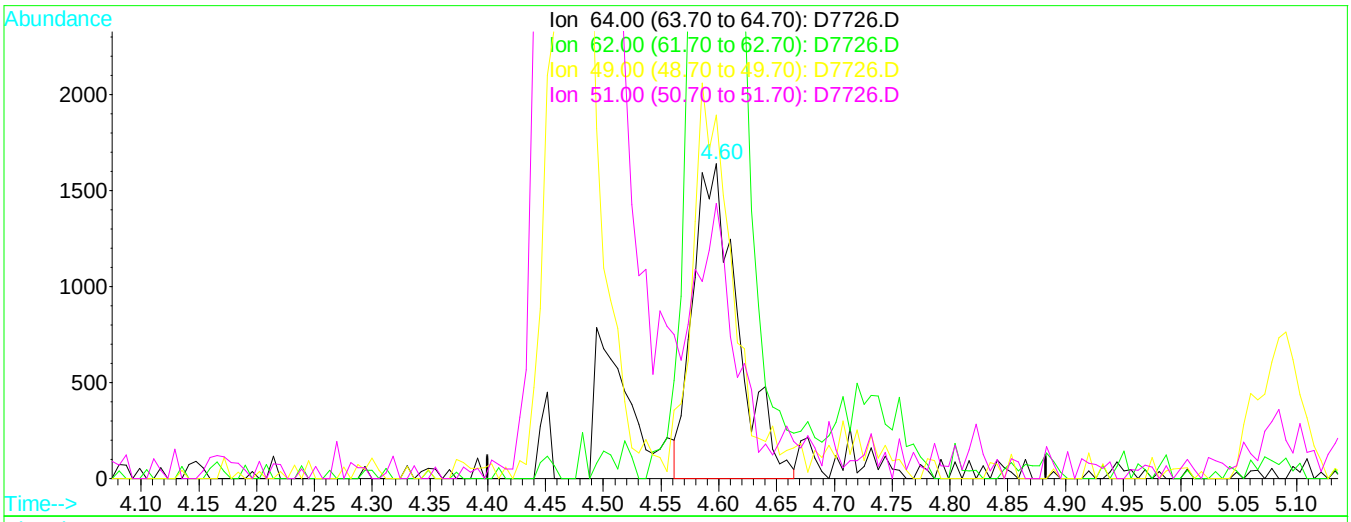
Before

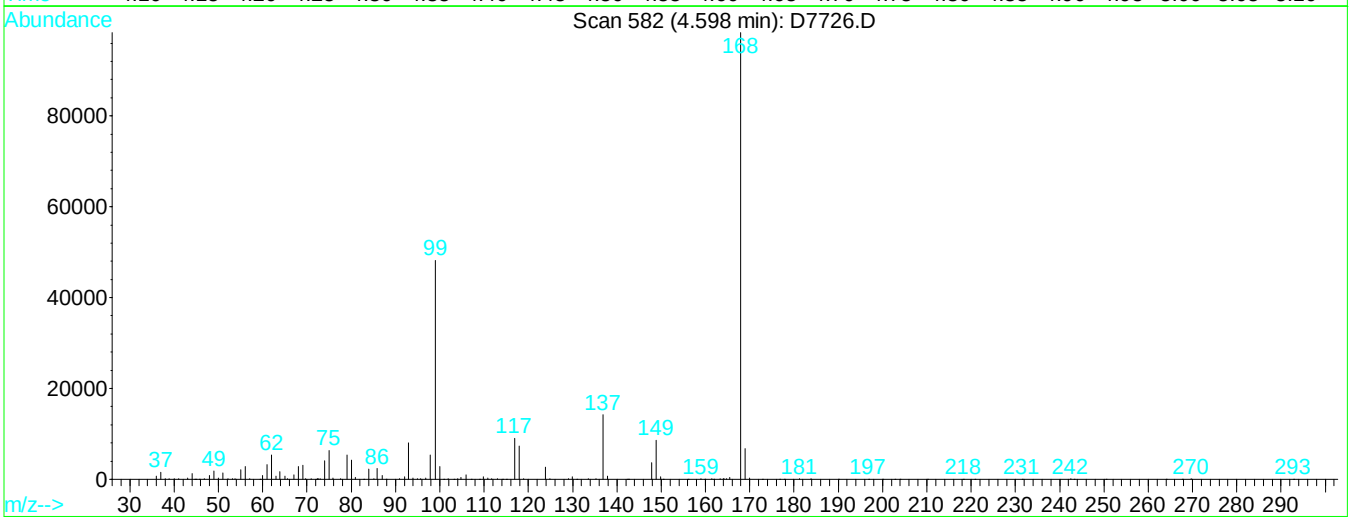
08/25/17

Quantitation Report (Qedit)

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)

4.60min 4.55ug/L m

response 4408

Ion	Exp%	Act%
64.00	100	100
62.00	291.40	327.58#
49.00	77.00	115.56#
51.00	29.80	87.49#

Manual Integration:

After

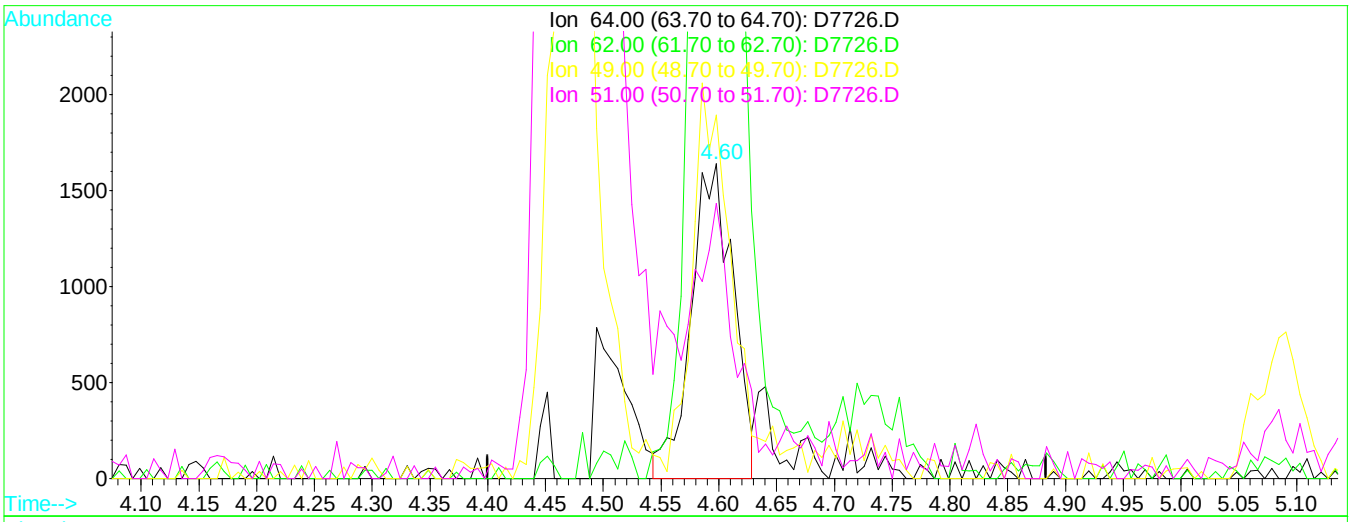
Poor integration.

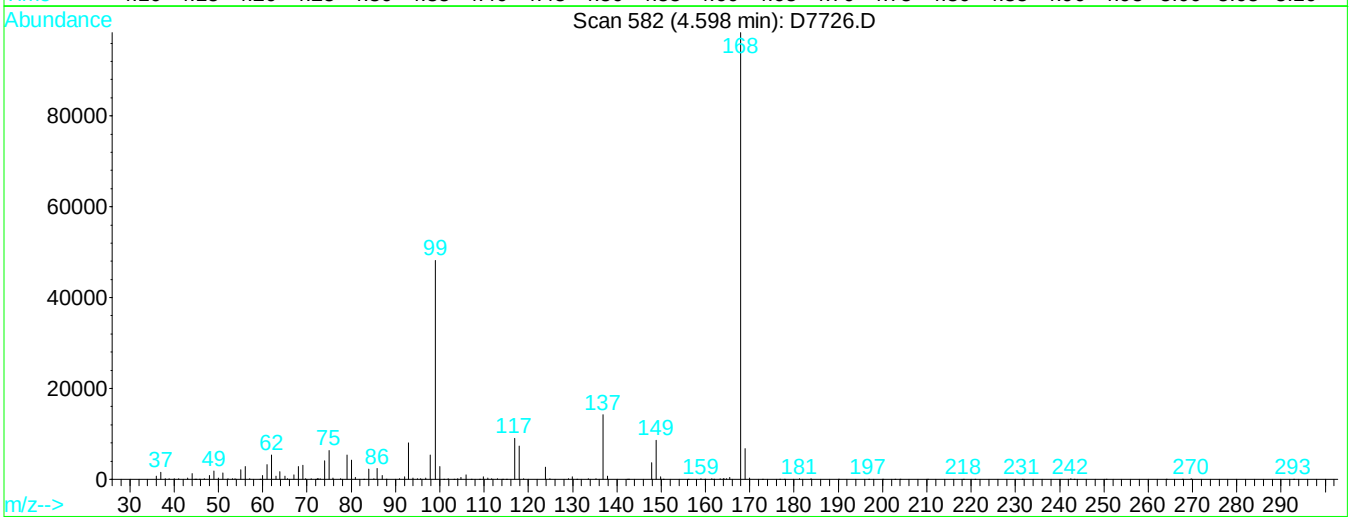
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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 : Multiple Level Calibration





TIC: D7726.D

(44) 1,2-Dichloroethane (P)

4.60min 4.27ug/L

response 4136

Ion	Exp%	Act%
64.00	100	100
62.00	291.40	327.58#
49.00	77.00	115.56#
51.00	29.80	87.49#

Manual Integration:

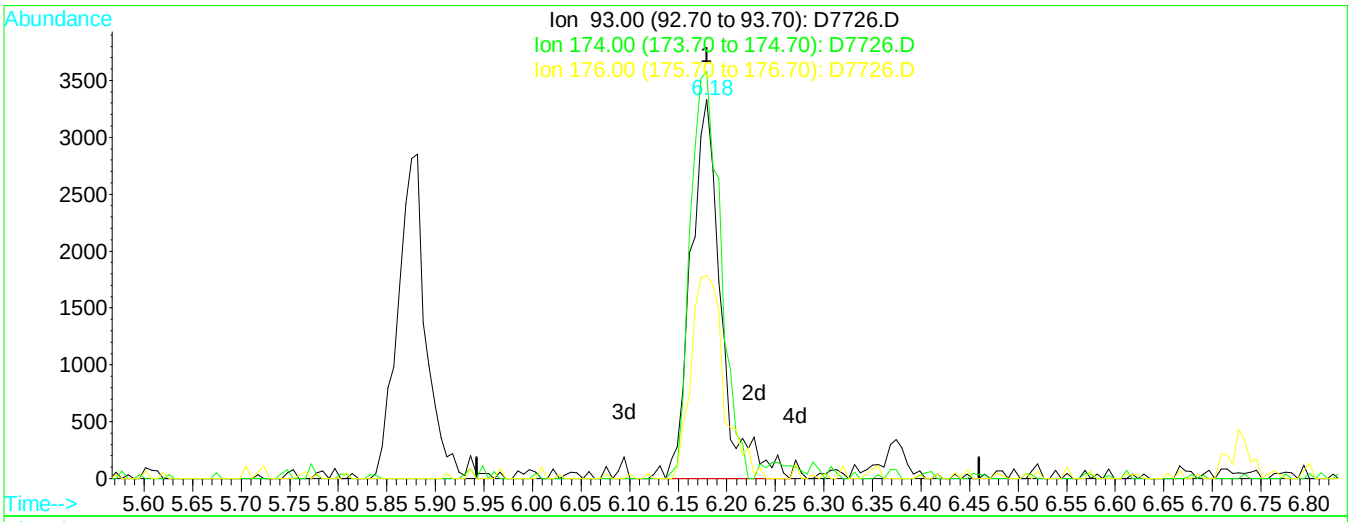
Before

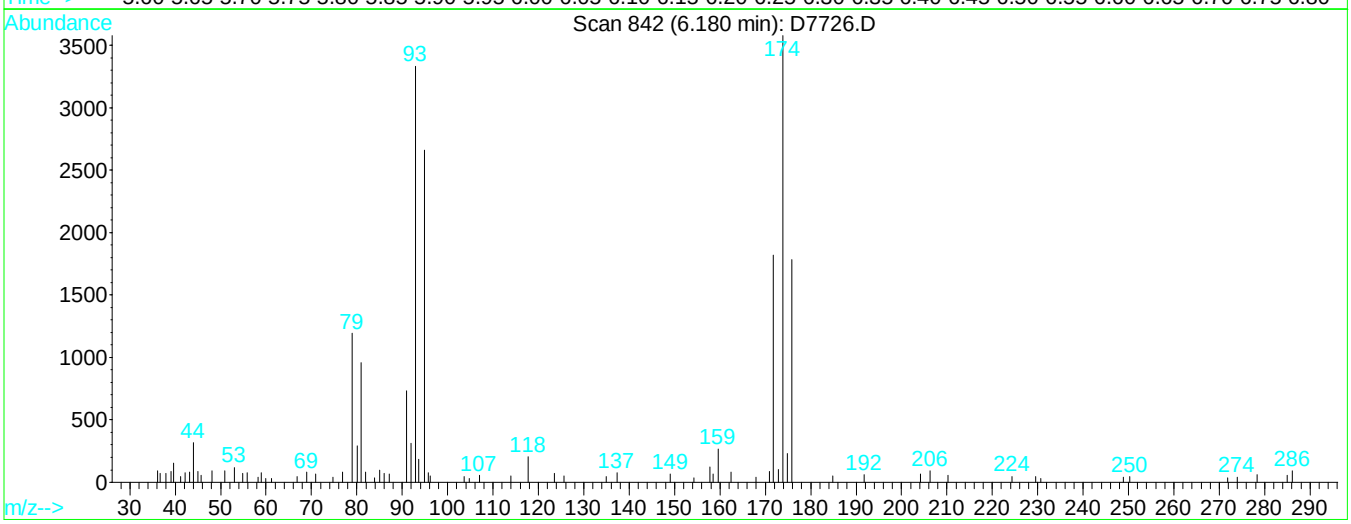
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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 : Multiple Level Calibration





TIC: D7726.D

(51) Dibromomethane

6.18min 4.87ug/L m

response 7140

Ion	Exp%	Act%
93.00	100	100
174.00	117.80	108.95
176.00	58.60	58.96
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

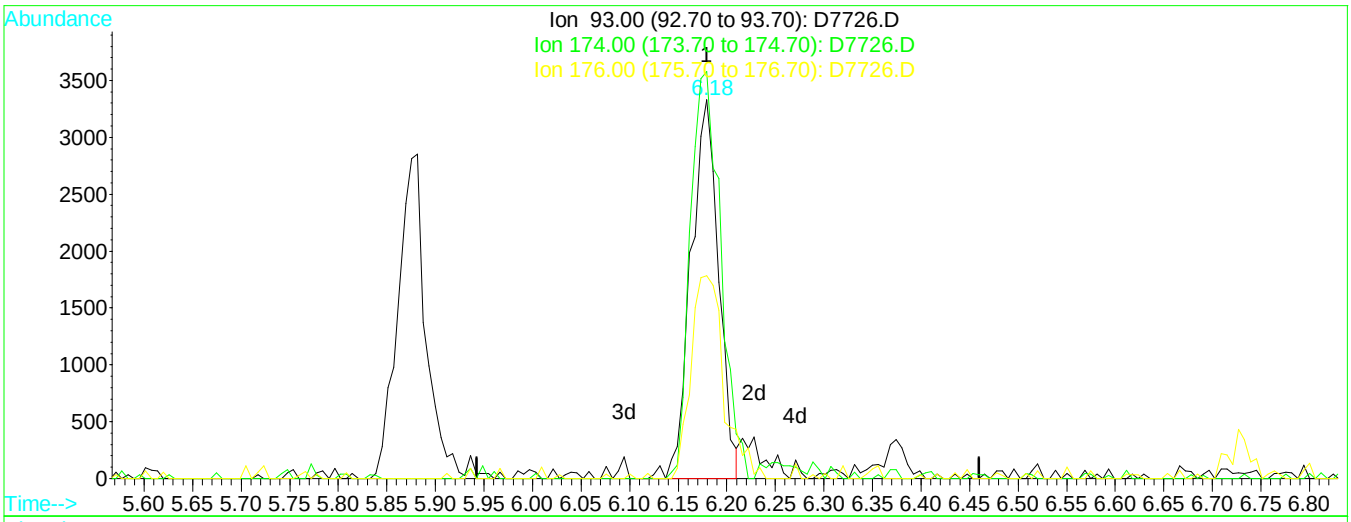
08/25/17

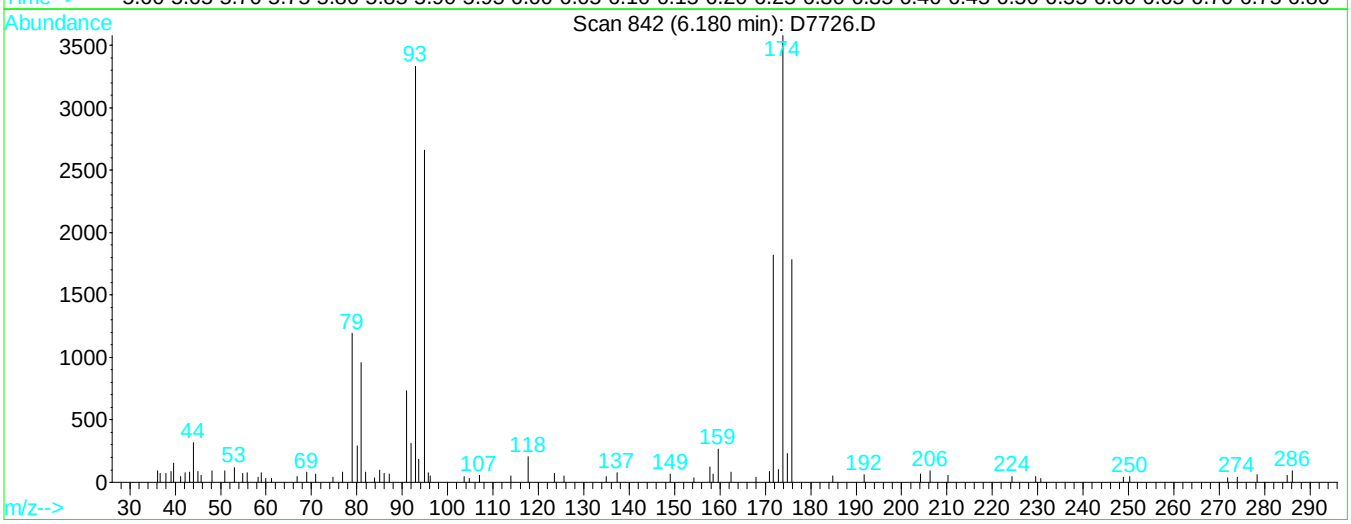
D7726.D W082417.M Fri Aug 25 10:50:33 2017

1st DL 08/25/17
2nd FW 08/26/17

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

(51) Dibromomethane

6.18min 4.50ug/L

response 6597

Ion	Exp%	Act%
93.00	100	100
174.00	117.80	117.92
176.00	58.60	63.82
0.00	0.00	0.00

Manual Integration:

Before

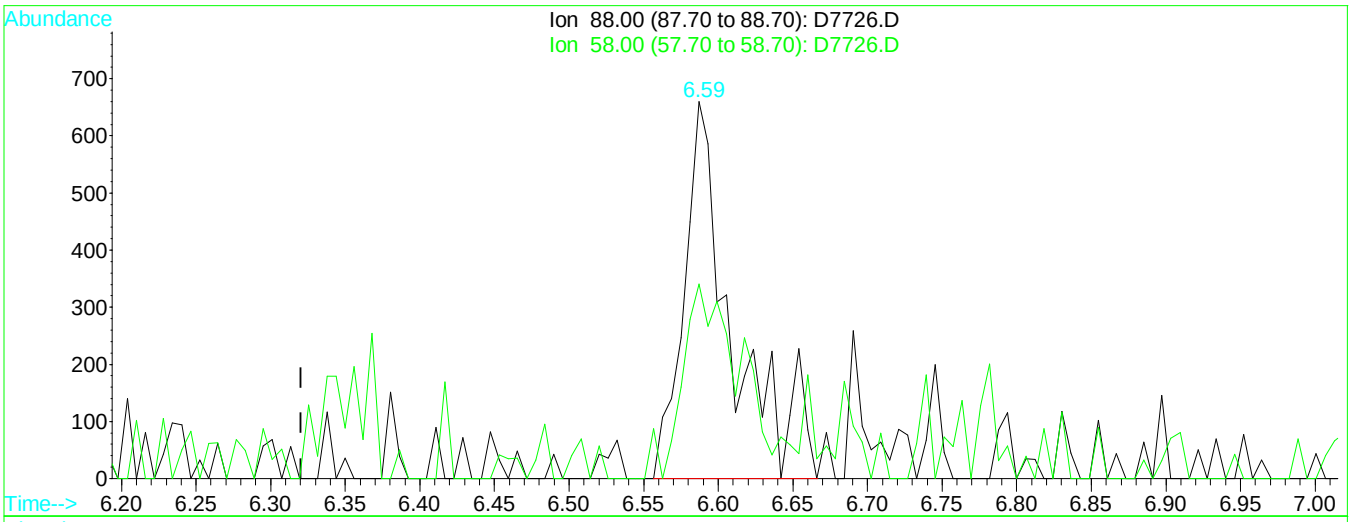
08/25/17

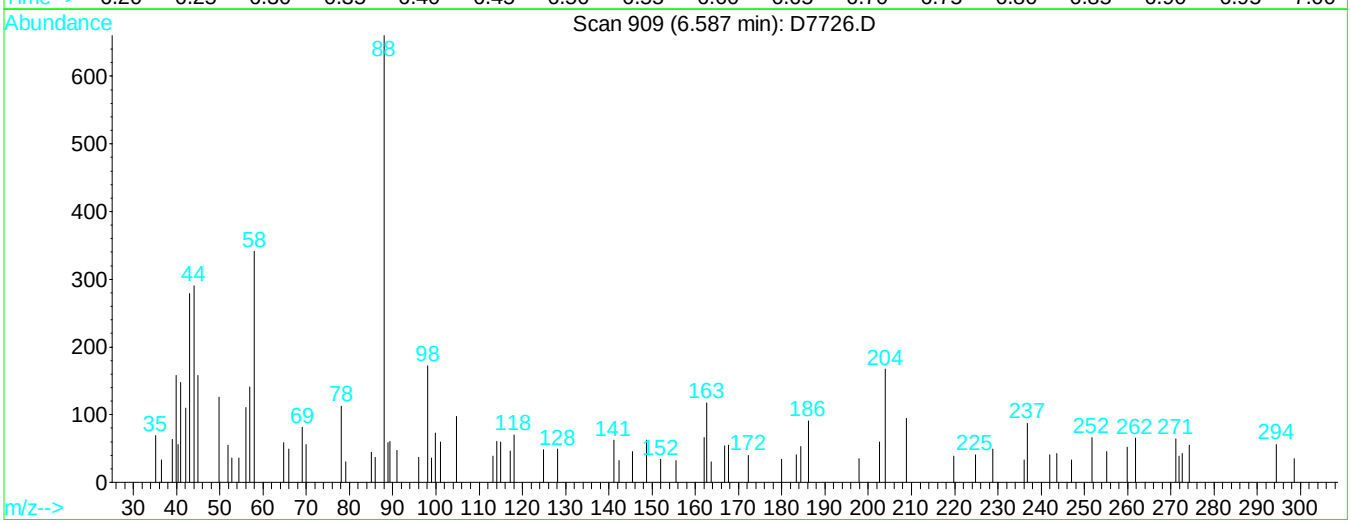
D7726.D W082417.M Fri Aug 25 10:50:27 2017

1st DL 08/25/17
2nd FW 08/26/17

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

(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.

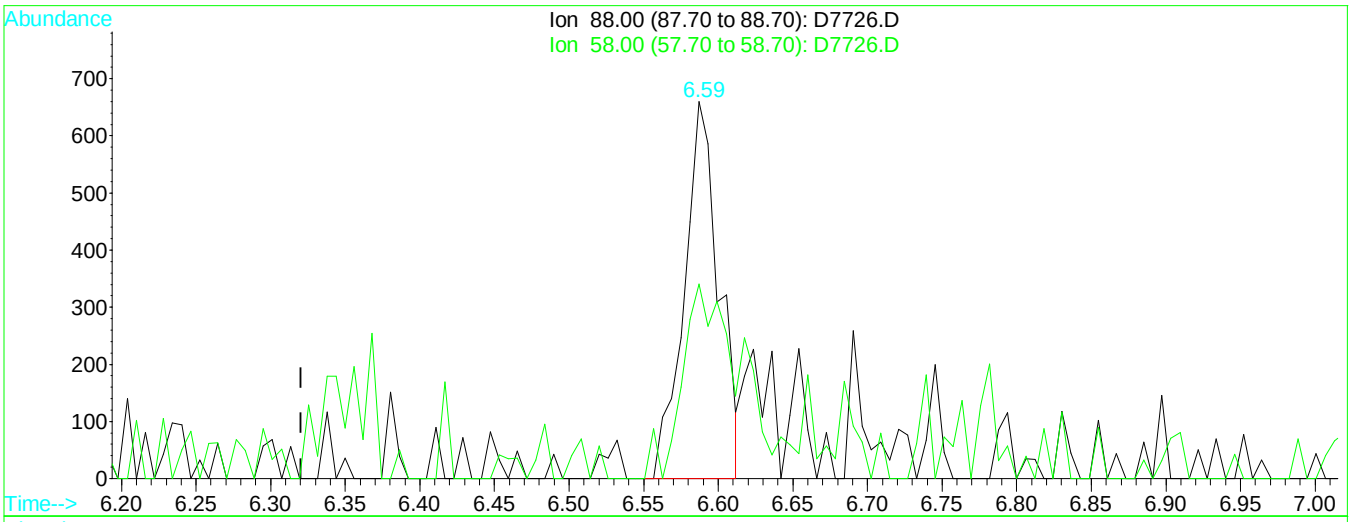
08/25/17

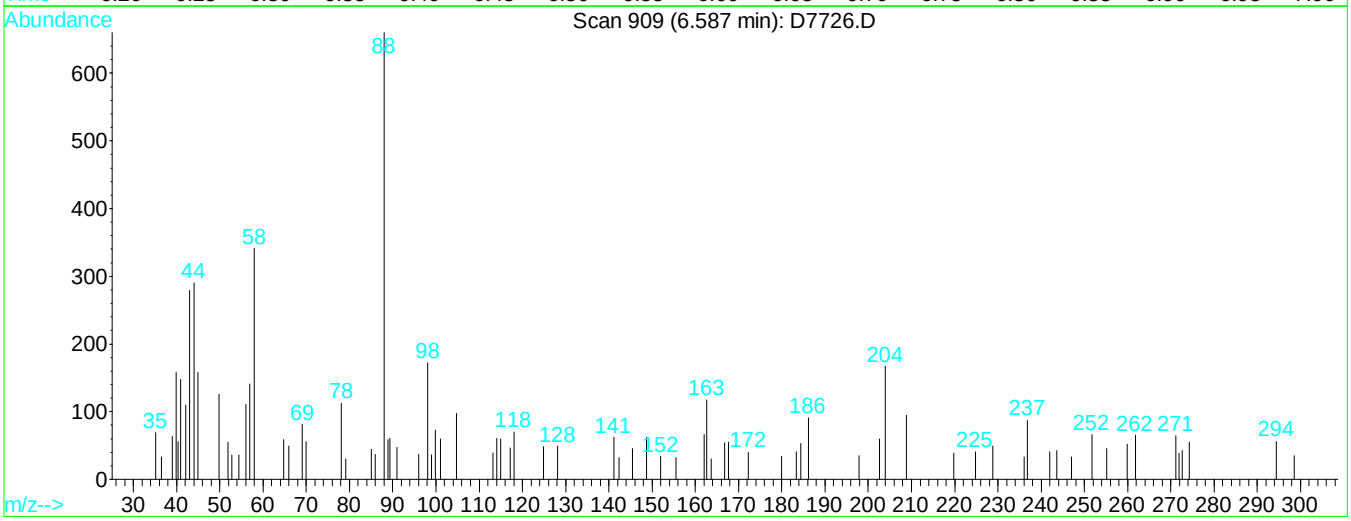
D7726.D W082417.M Fri Aug 25 10:51:08 2017

Quantitation Report (Qedit)

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

6.59min 60.42ug/L

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

Manual Integration:

Before

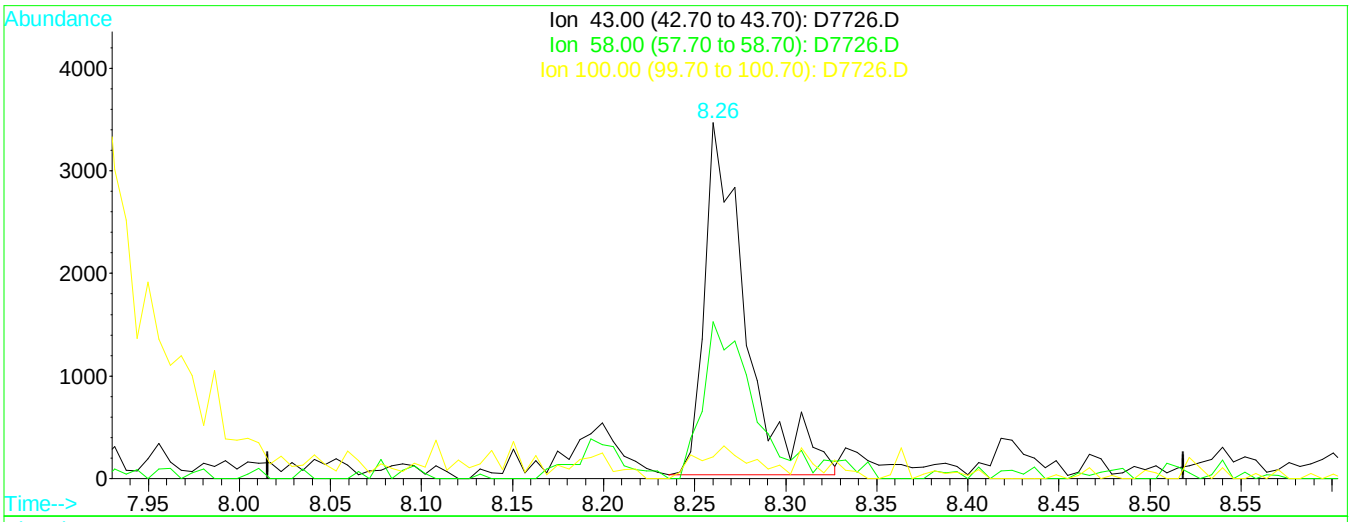
08/25/17

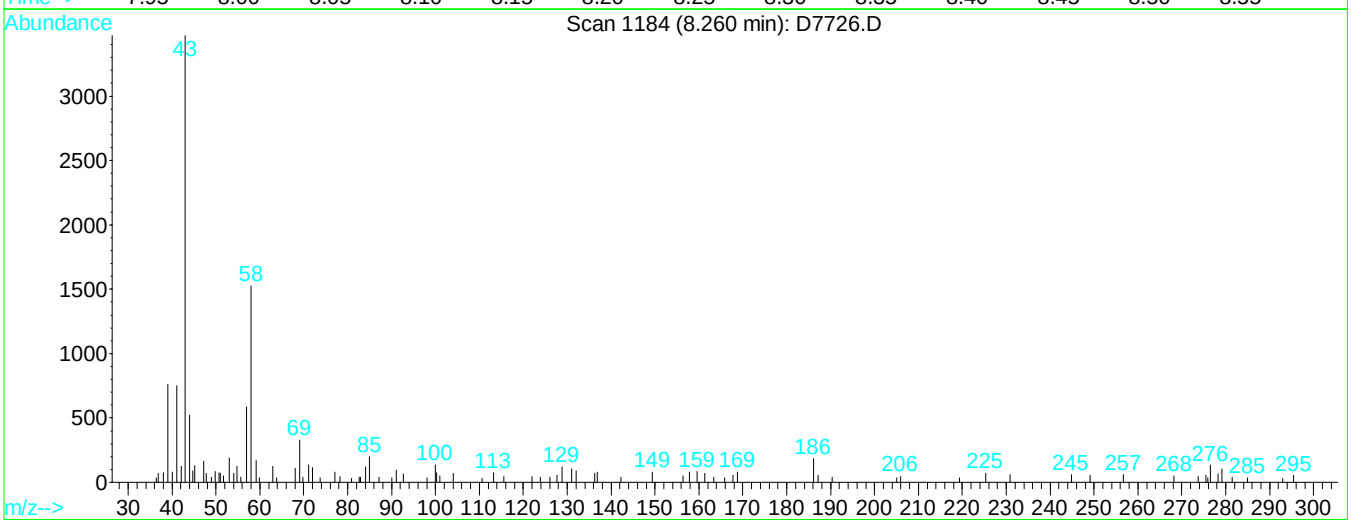
D7726.D W082417.M Fri Aug 25 10:51:00 2017

1st DL 08/25/17
2nd FW 08/26/17

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)

8.26min 5.08ug/L m

response 5408

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

Manual Integration:

After

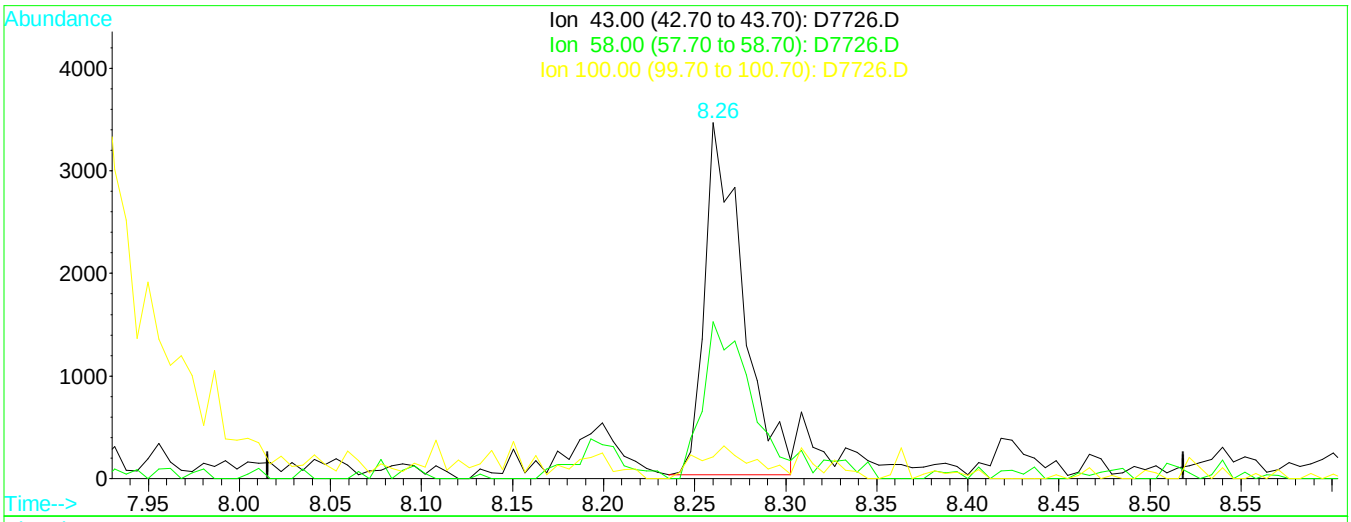
Split Peak.

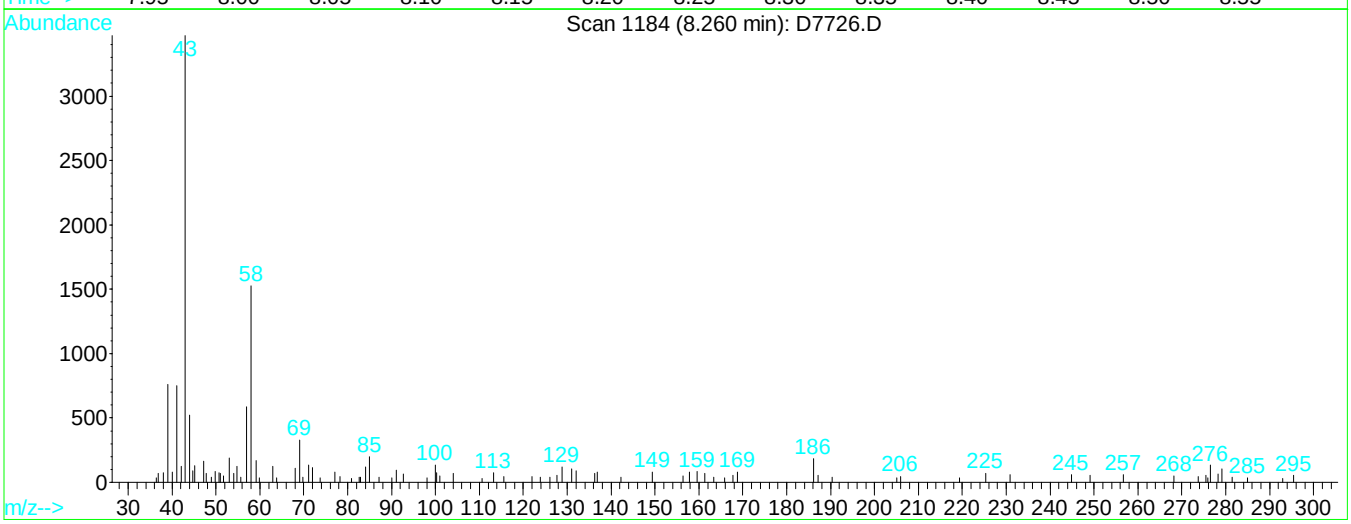
08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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)

8.26min 4.67ug/L

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

Manual Integration:

Before

08/25/17

1st DL 08/25/17
2nd FJ 08/26/17

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) SURR3,Toluene-d8	7.89	98	515279	71.91	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 143.82%#				
86) SURR2,BFB	10.24	95	207134	69.31	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 138.62%#				
Target Compounds							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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

	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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

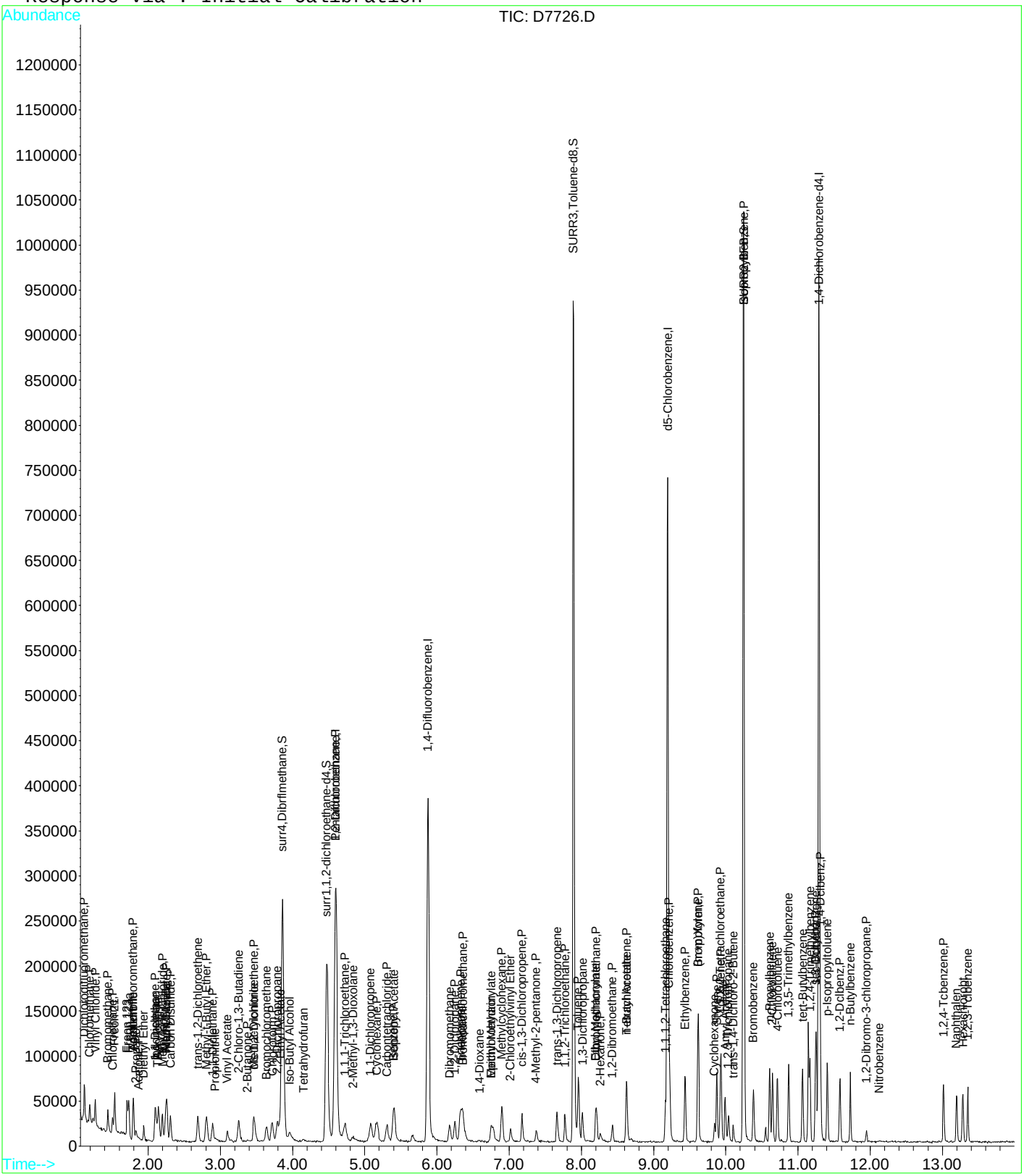
Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 10:22:29 2017
Response via : Initial Calibration
DataAcq Meth : W082417

	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

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

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

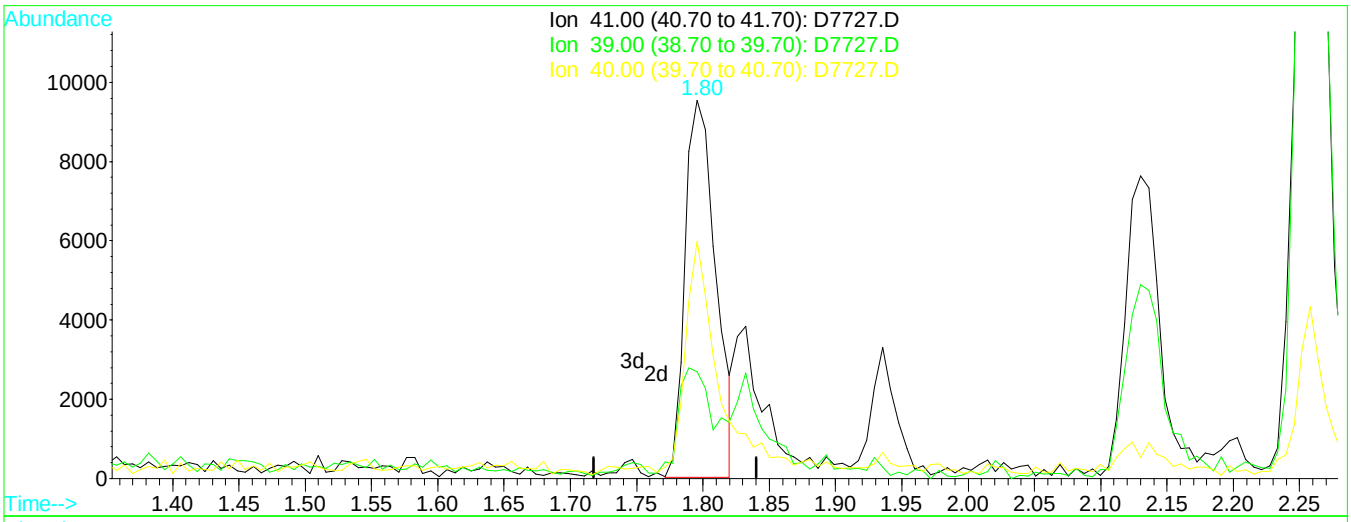
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 10:22:29 2017
Response via : Initial Calibration

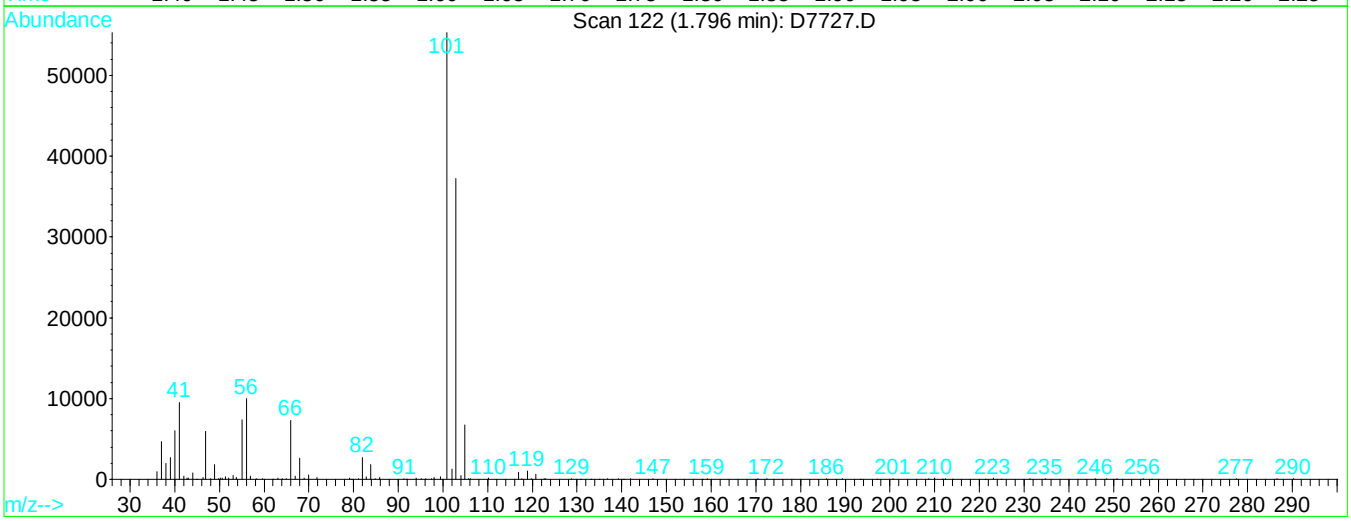


1st DL 08/25/17
2nd FW 08/26/17

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

(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

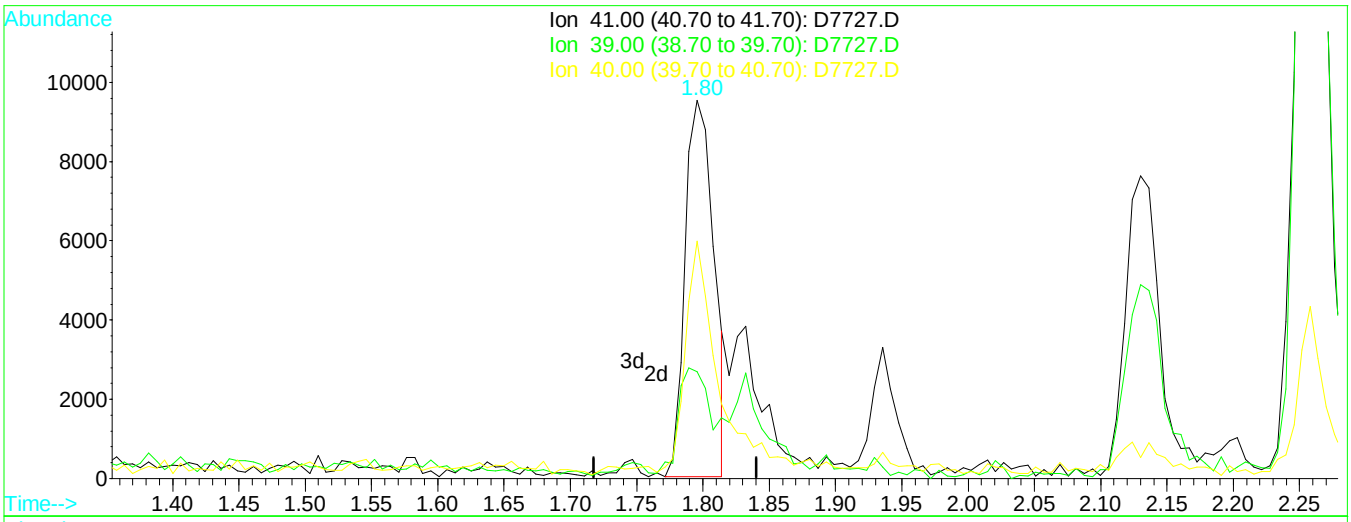
D7727.D W082417.M Thu Aug 24 17:35:19 2017

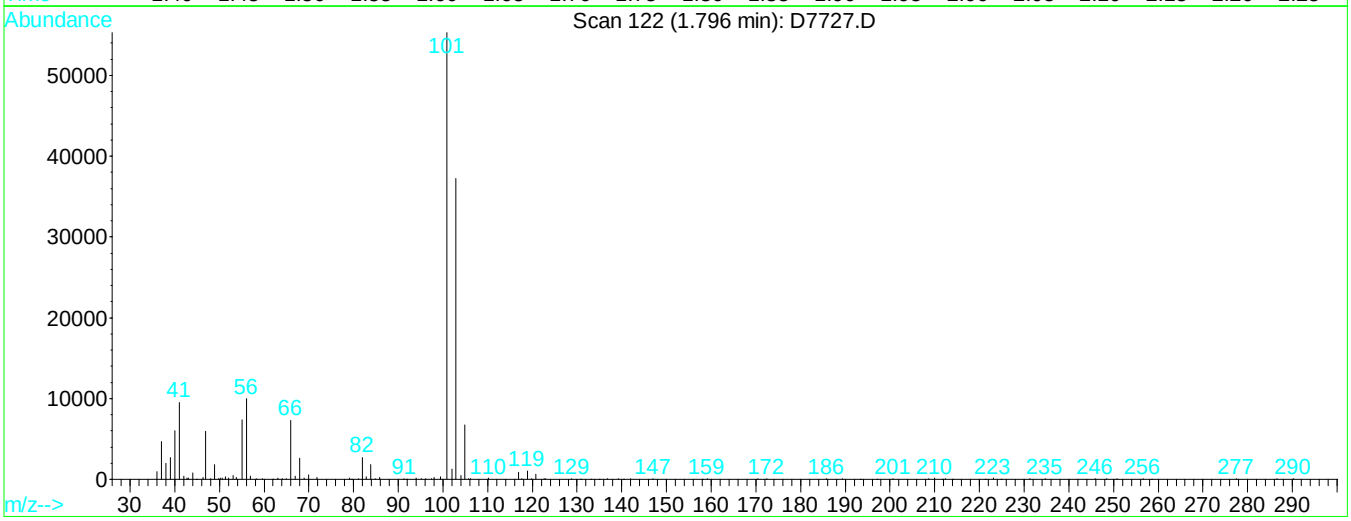
1st DL 08/25/17
2nd FW 08/26/17

Quantitation Report (Qedit)

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

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:

Before

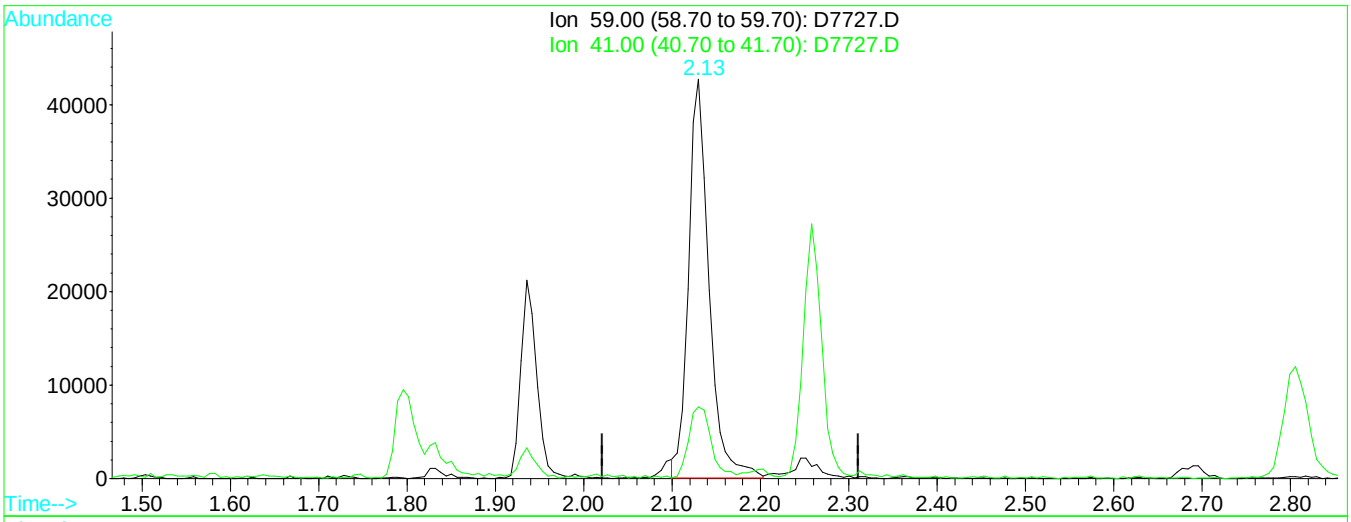
08/24/17

D7727.D W082417.M Thu Aug 24 17:34:55 2017

Quantitation Report (Qedit)

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

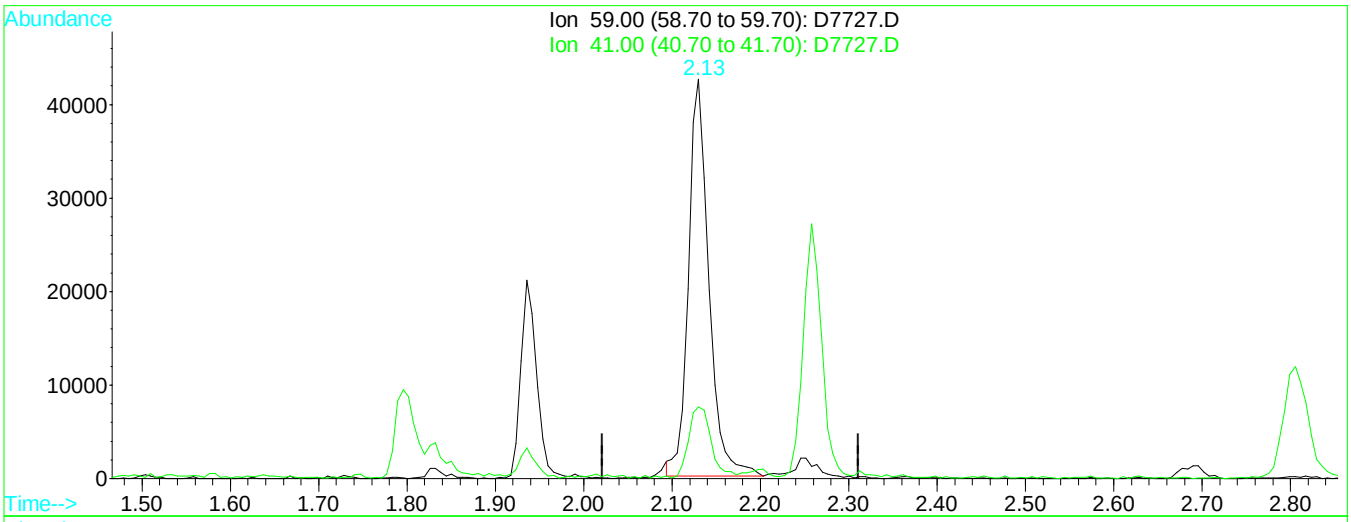
Poor integration.

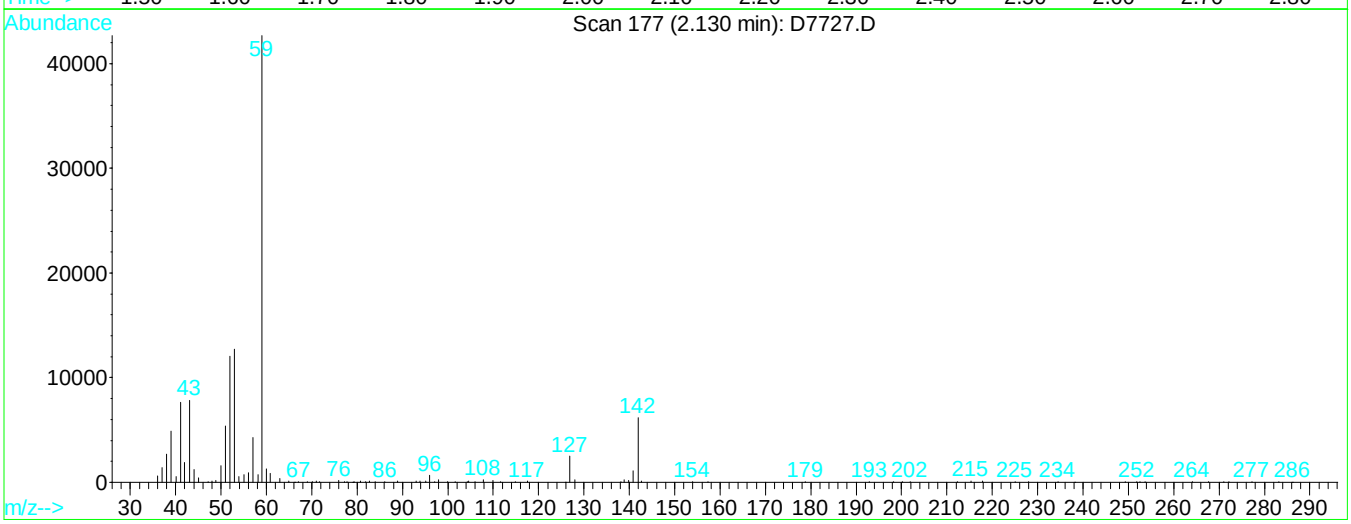
08/24/17

Quantitation Report (Qedit)

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 397.29ug/L

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

Manual Integration:

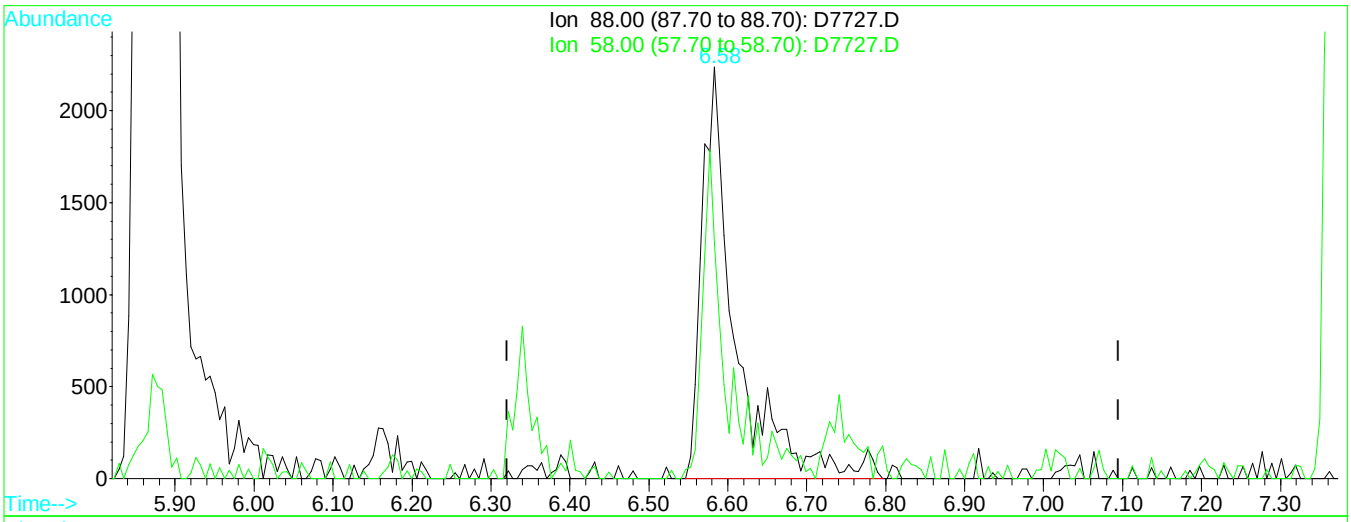
Before

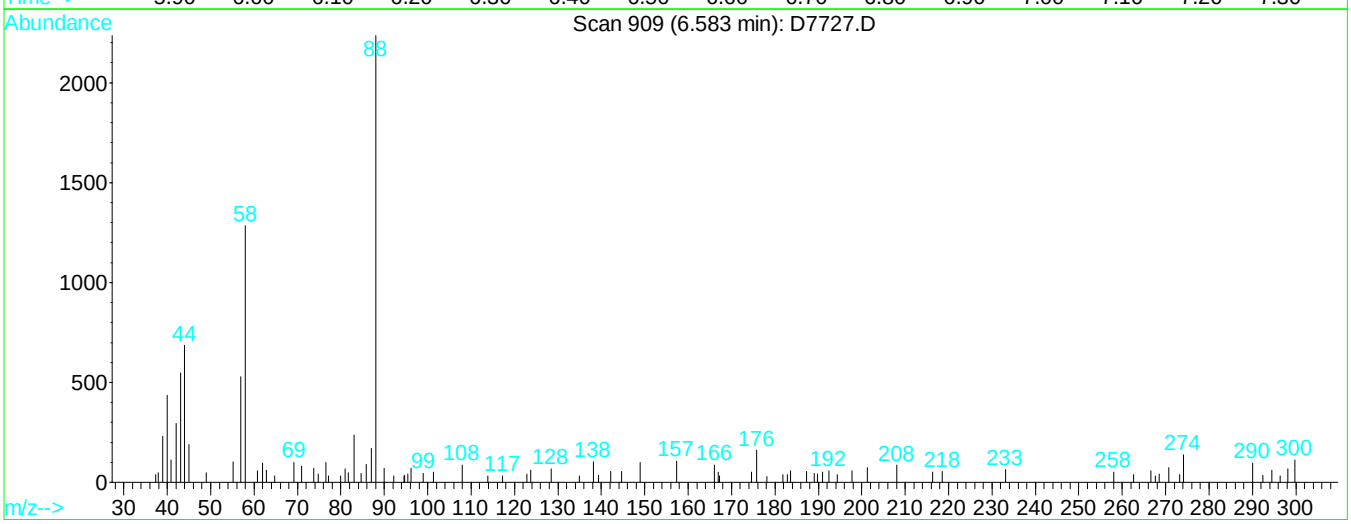
08/24/17

1st DL 08/25/17
2nd FW 08/26/17

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

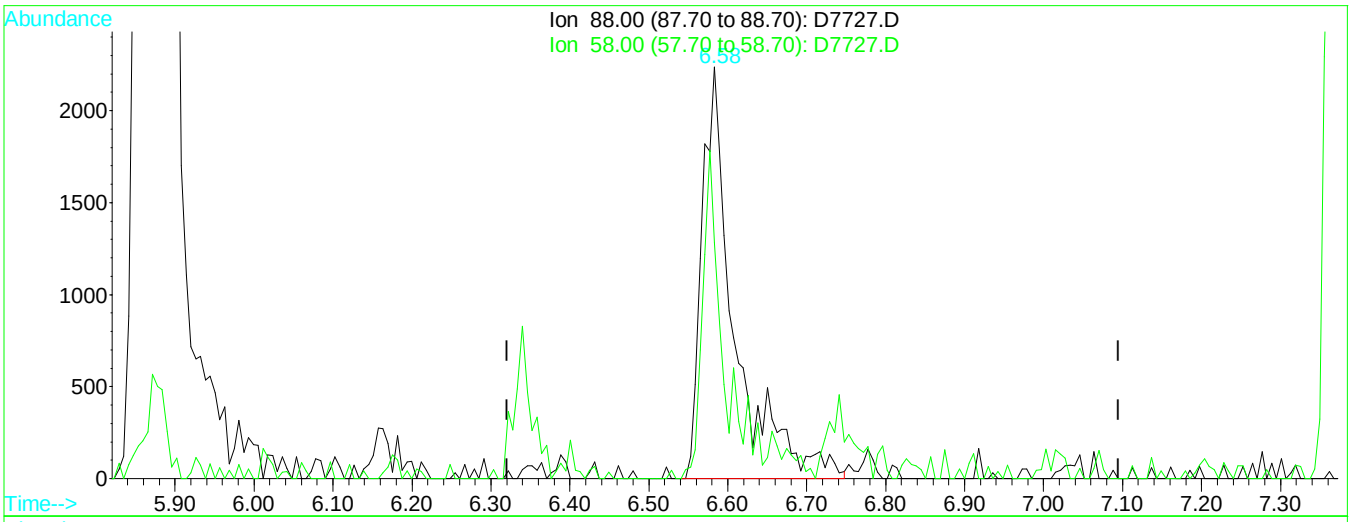
Split Peak.

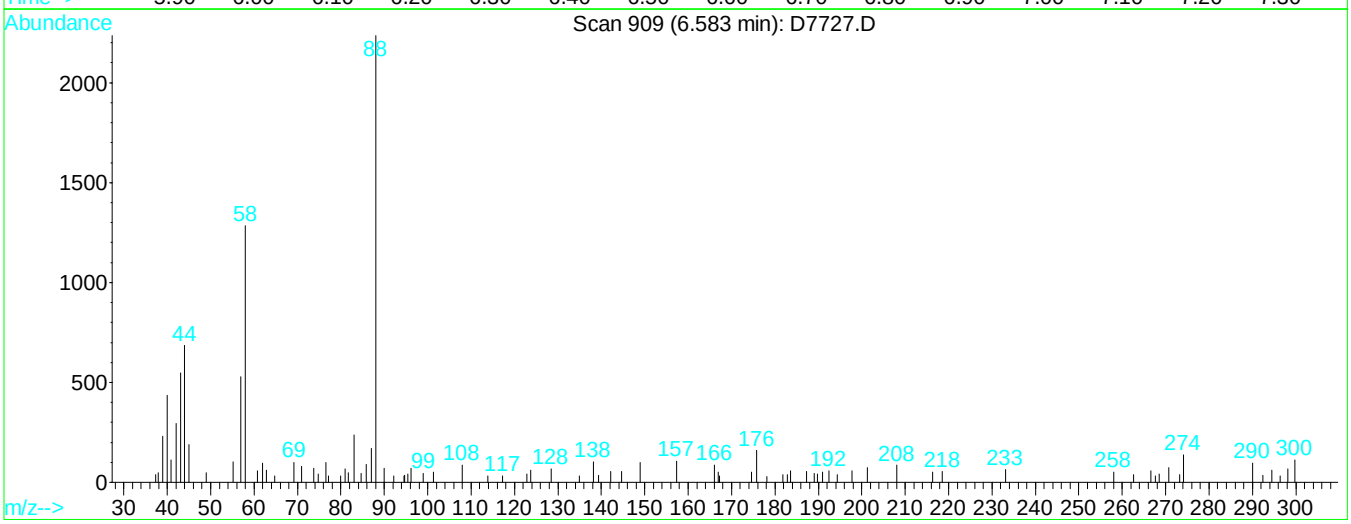
08/24/17

Quantitation Report (Qedit)

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

6.58min 363.17ug/L

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

Manual Integration:

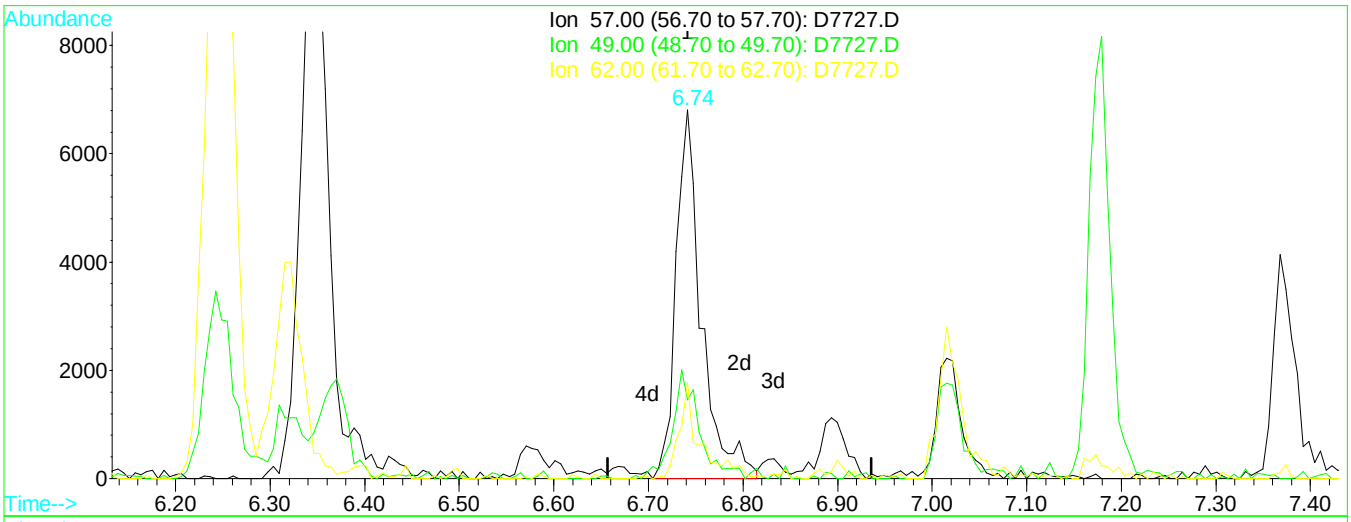
Before

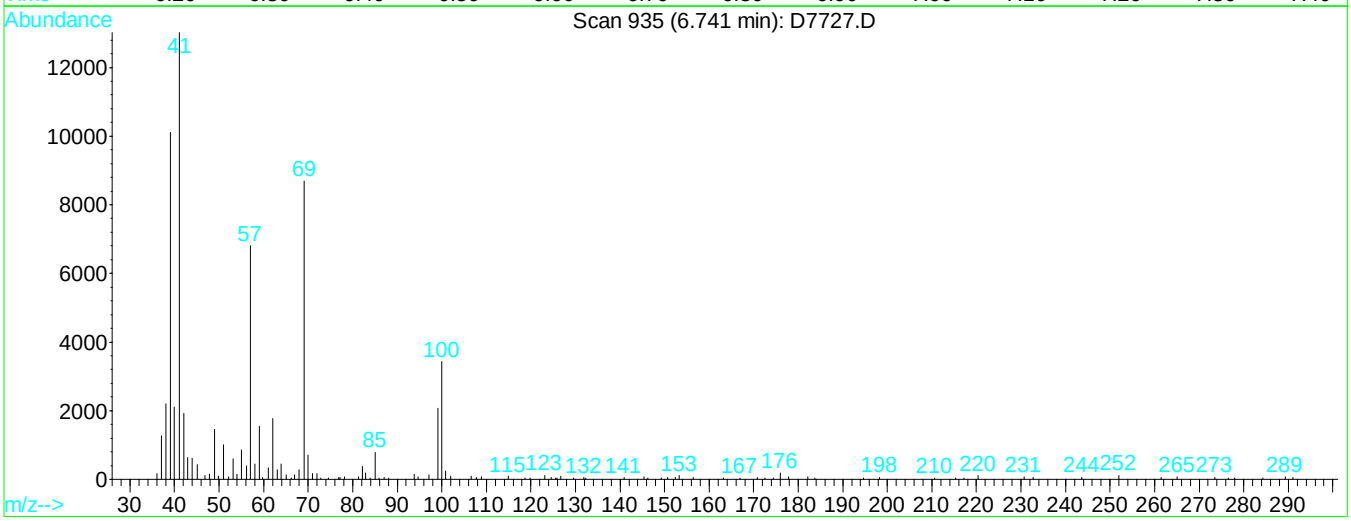
08/24/17

Quantitation Report (Qedit)

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

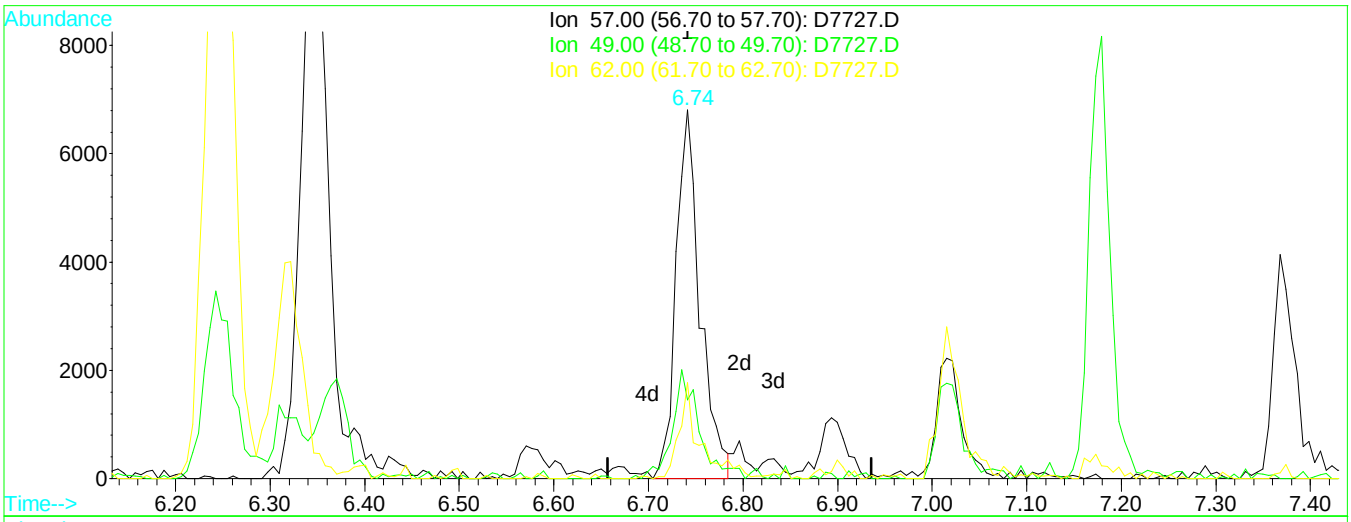
Split Peak.

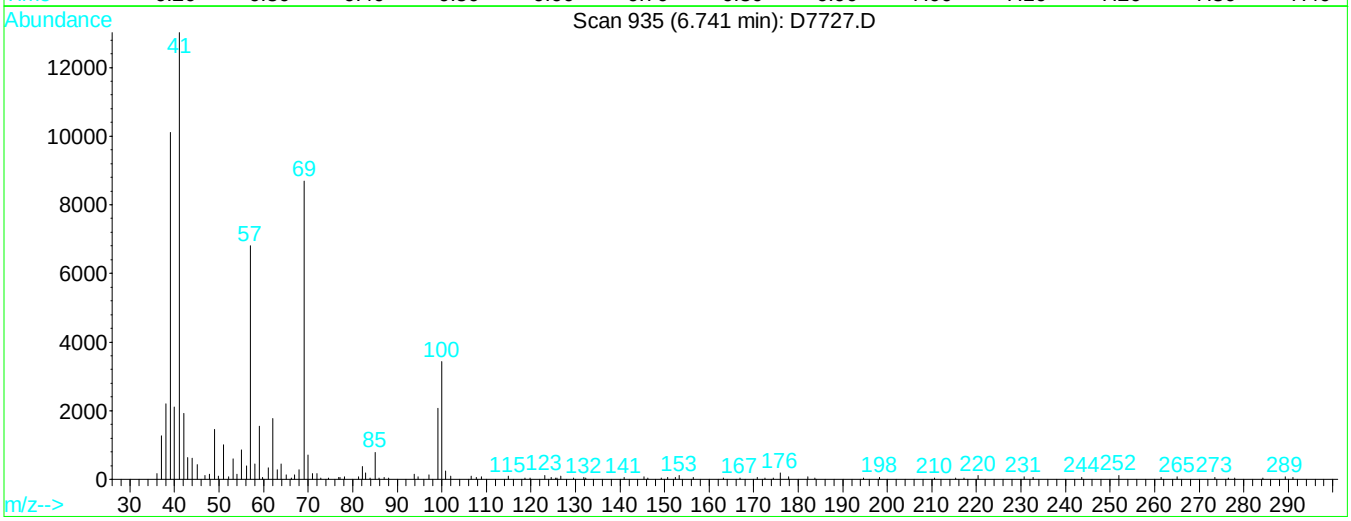
08/24/17

Quantitation Report (Qedit)

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 84.59ug/L

response 11993

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:

Before

08/24/17

Quantitation Report (QT Reviewed)

1st DL 08/25/17
2nd FJ 08/26/17

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) SURR3,Toluene-d8	7.89	98	692862	96.11	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 192.22%#			
86) SURR2,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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

	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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

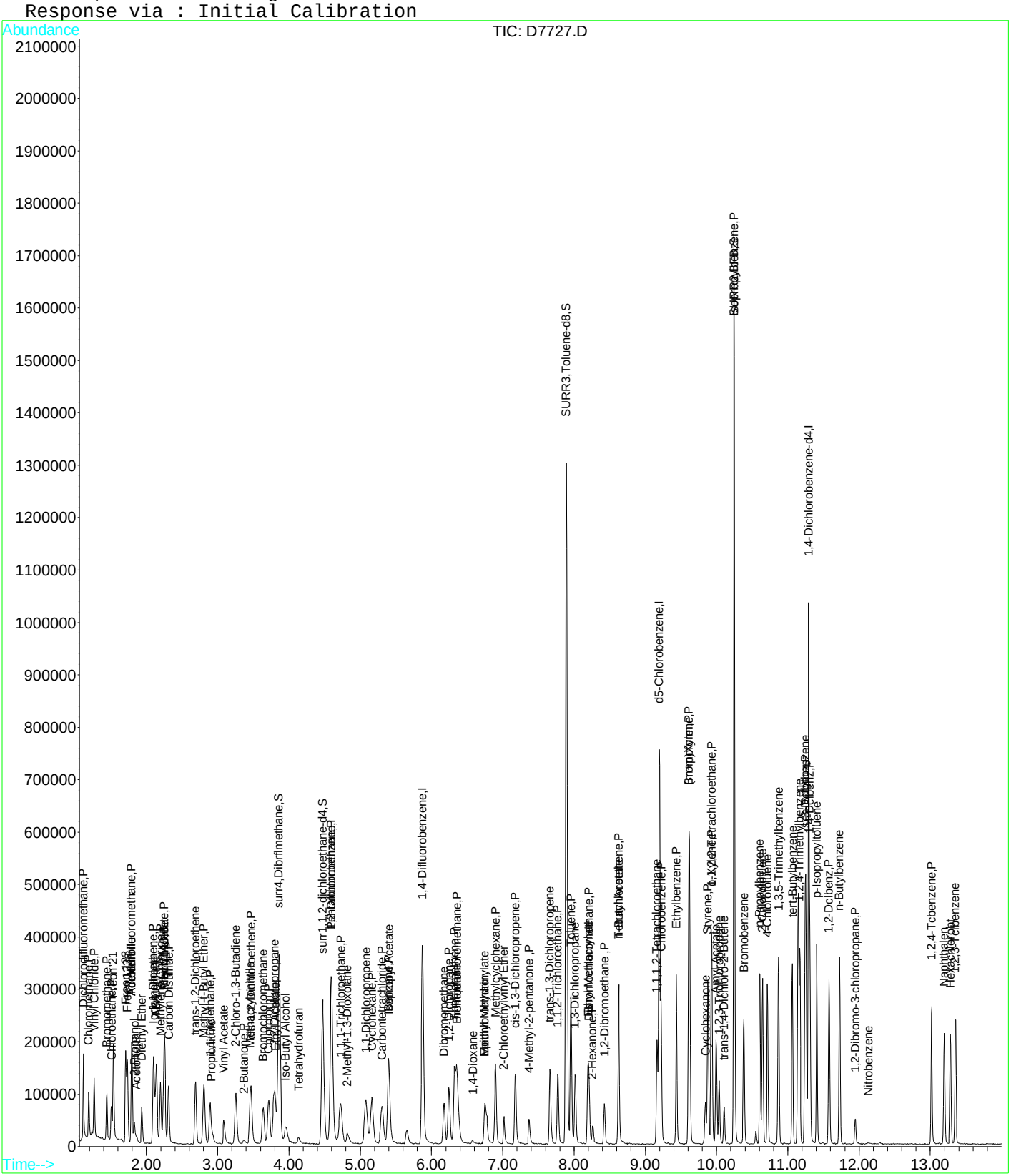
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.72	91	141971	21.14	ug/L	96
103) 1,2-Dibromo-3-chloropropan	11.94	75	8042	18.86	ug/L	96
104) Nitrobenzene	12.13	77	920	30.45	ug/L	96
105) 1,2,4-Tcbenzene	13.02	180	64929	19.28	ug/L	100
106) Naphthalen	13.20	128	124704	19.58	ug/L	98
107) Hexachlorobt	13.29	225	31470	19.07	ug/L	97
108) 1,2,3-Tclbenzene	13.35	180	58280	20.11	ug/L	98

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

1st DL 08/25/17
2nd FW 08/26/17

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

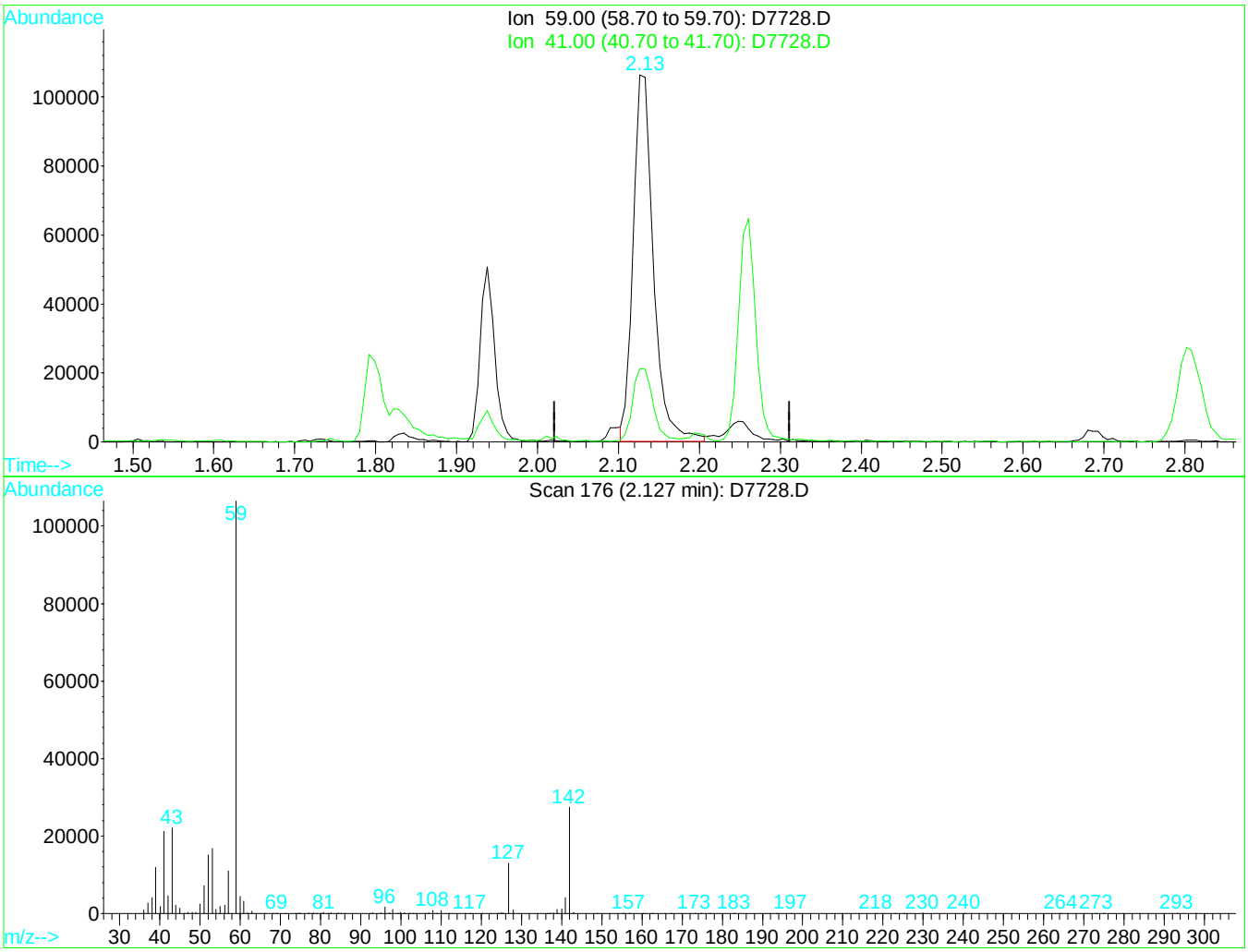
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Thu Aug 24 17:33:51 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

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

2.13min 1008.34ug/L m

response 184921

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

Manual Integration:

After

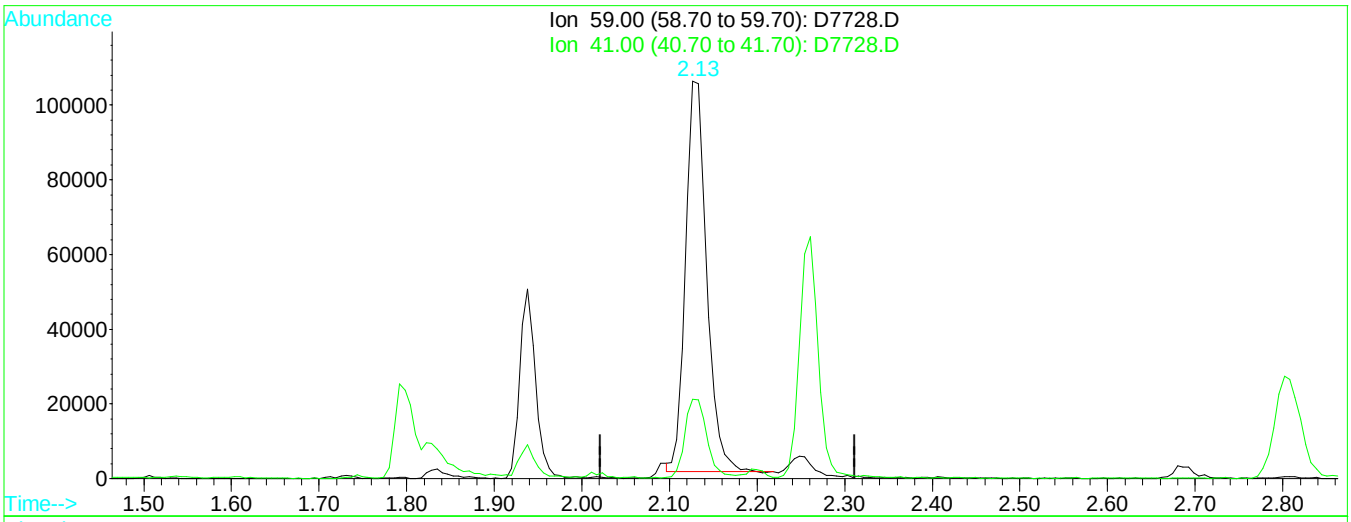
Poor integration.

08/24/17

Quantitation Report (Qedit)

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

2.13min 955.92ug/L

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

Manual Integration:

Before

08/24/17

1st DL 08/25/17
2nd FJ 08/26/17

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) SURR3,Toluene-d8	7.89	98	407623	54.75	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.50%			
86) SURR2,BFB	10.25	95	172254	54.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.36%			
Target Compounds						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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

	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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

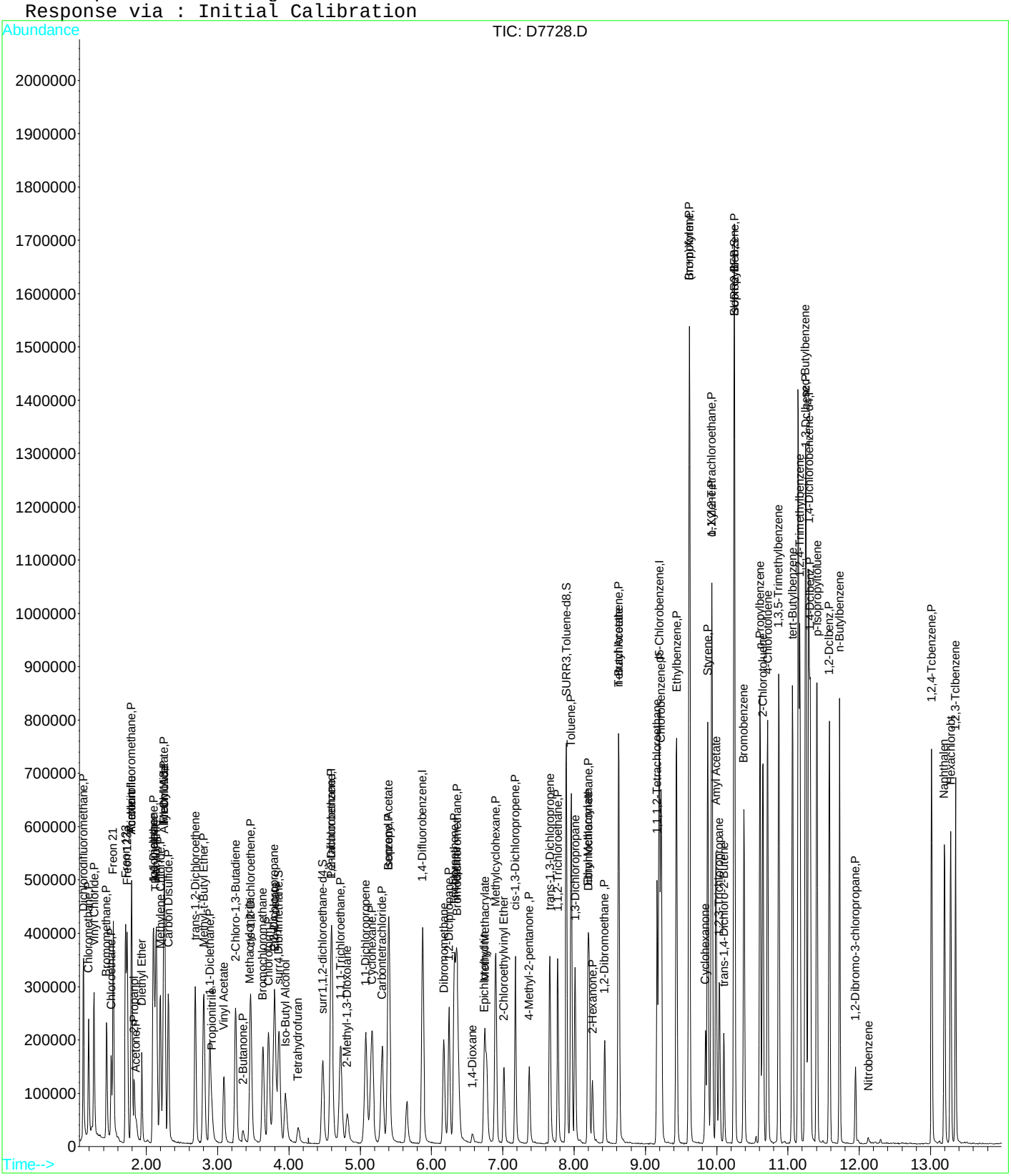
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.73	91	336578	47.90	ug/L	100
103) 1,2-Dibromo-3-chloropropan	11.95	75	23017	51.58	ug/L	100
104) Nitrobenzene	12.13	77	2493	78.86	ug/L	100
105) 1,2,4-Tcbenzene	13.02	180	167124	47.42	ug/L	100
106) Naphthalen	13.20	128	329254	49.42	ug/L	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

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

1st DL 08/25/17
2nd FW 08/26/17

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

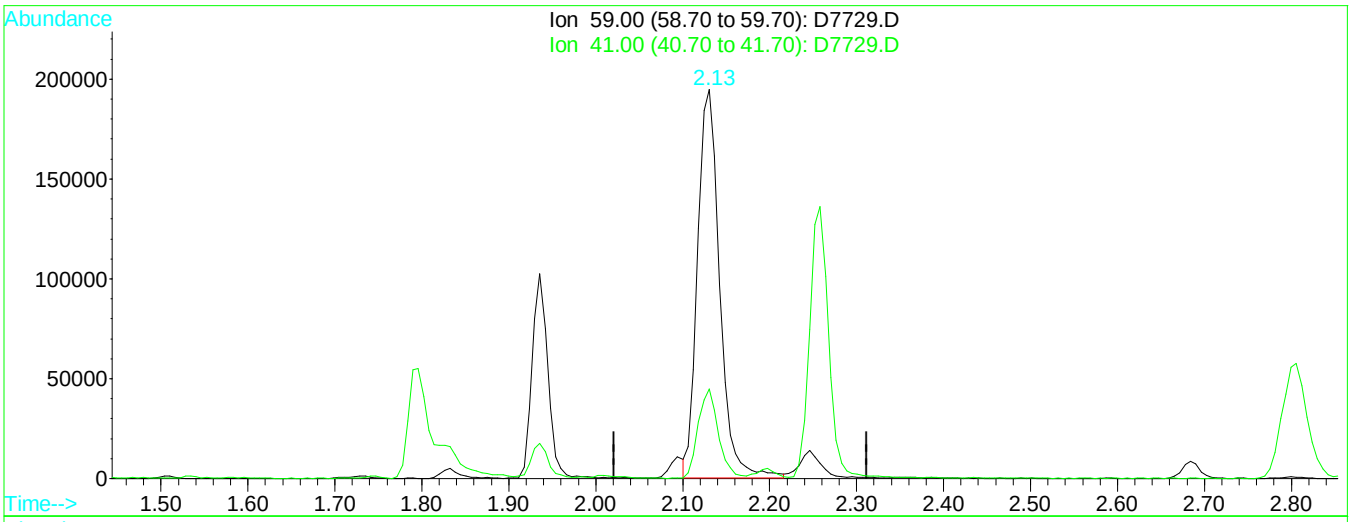
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Thu Aug 24 17:13:00 2017
Response via : Initial Calibration



1st DL 08/25/17
2nd FW 08/26/17

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 : 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

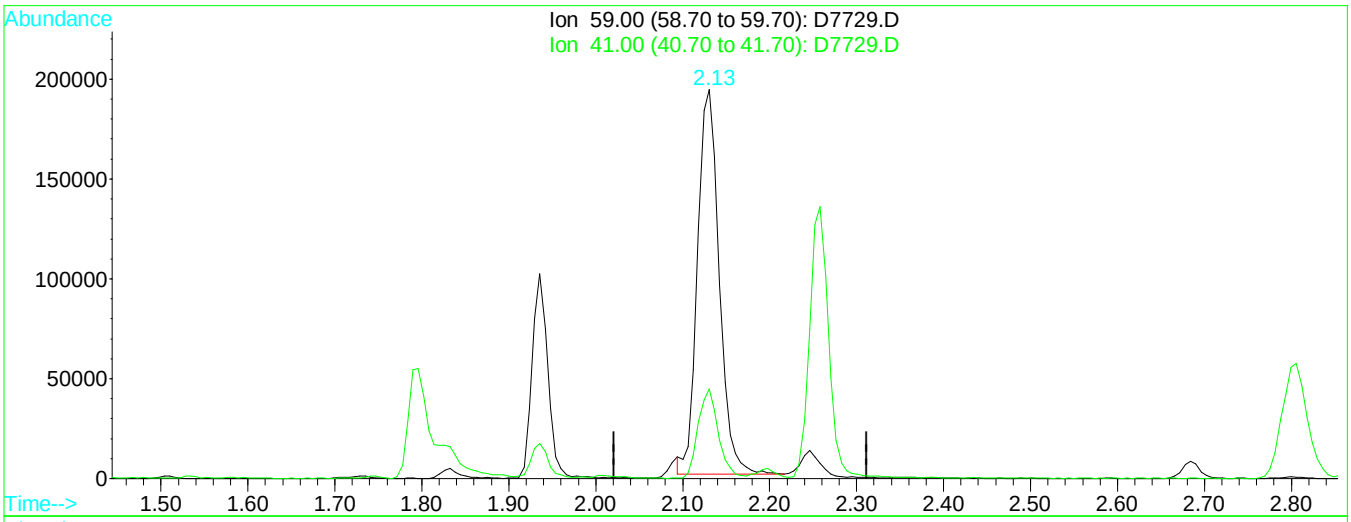
Poor integration.

08/25/17

Quantitation Report (Qedit)

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

2.13min 1763.90ug/L

response 333602

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:

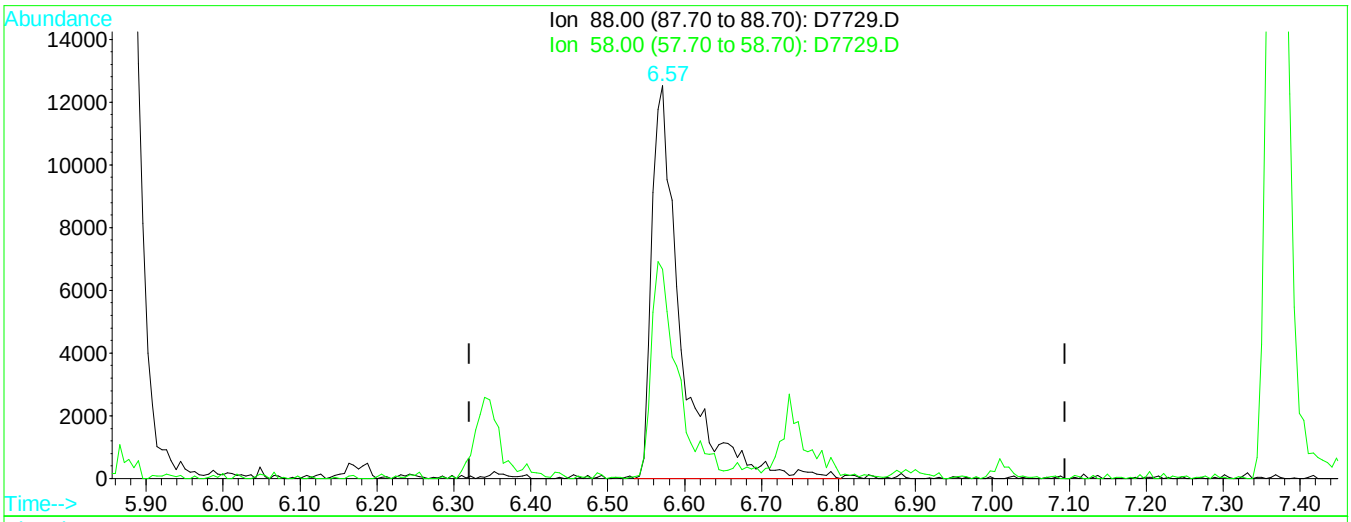
Before

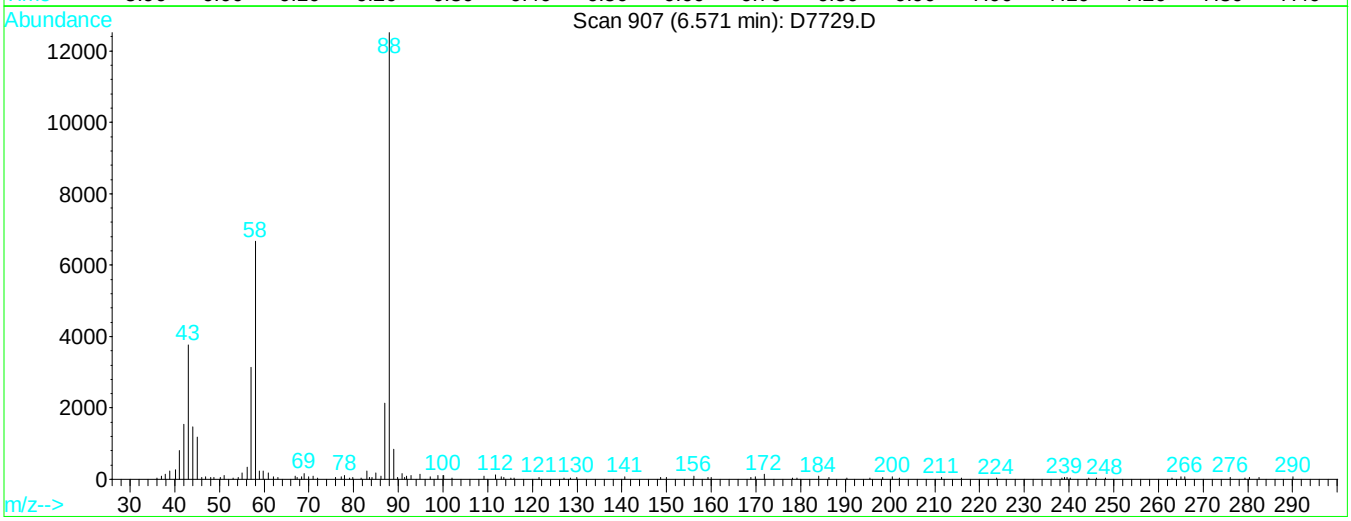
08/25/17

Quantitation Report (Qedit)

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

6.57min 1773.87ug/L m

response 33375

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

Manual Integration:

After

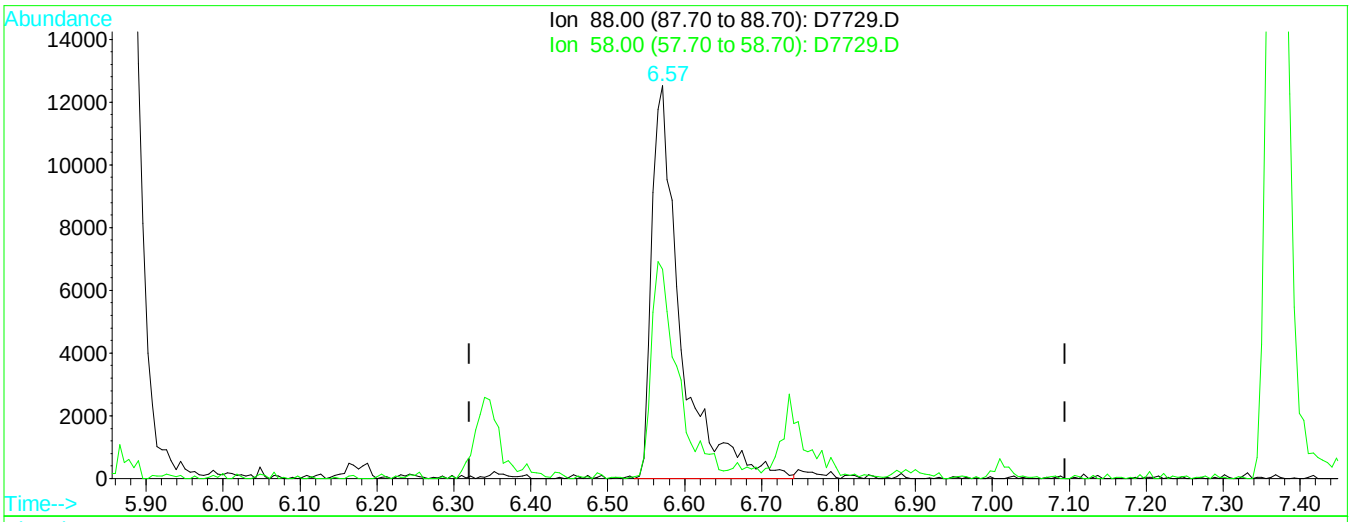
Split Peak.

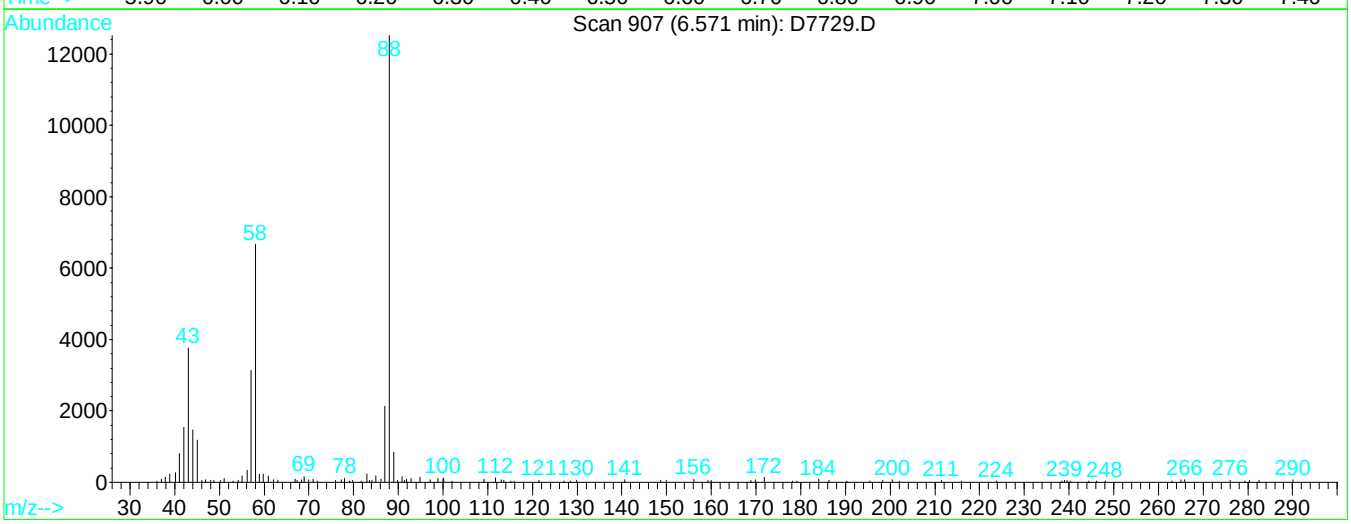
08/25/17

Quantitation Report (Qedit)

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

6.57min 1743.36ug/L

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

Manual Integration:

Before

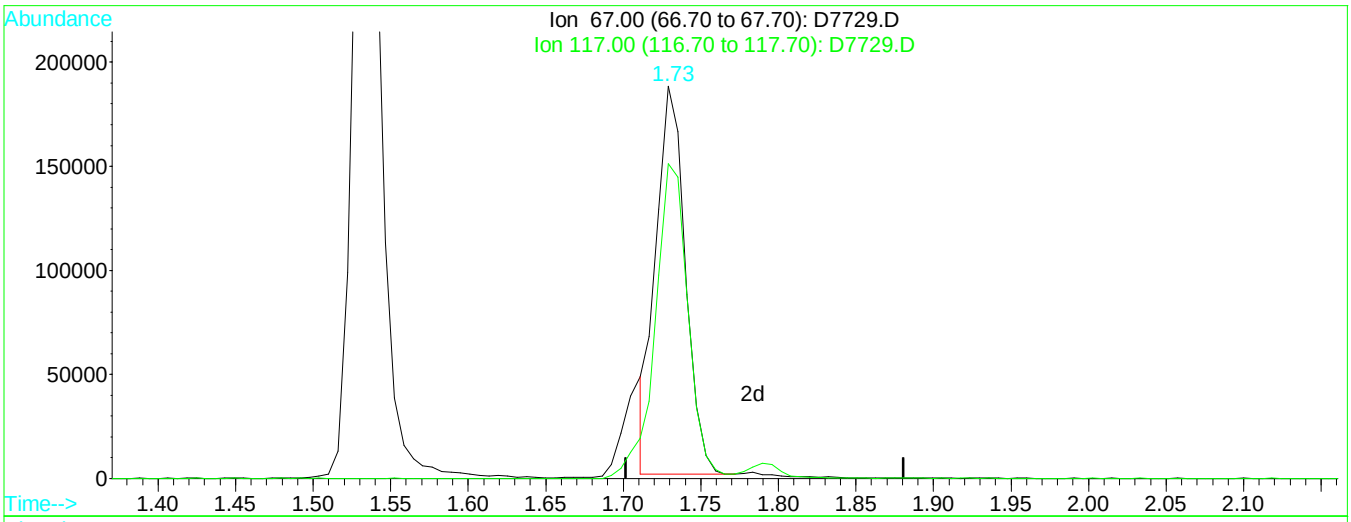
08/25/17

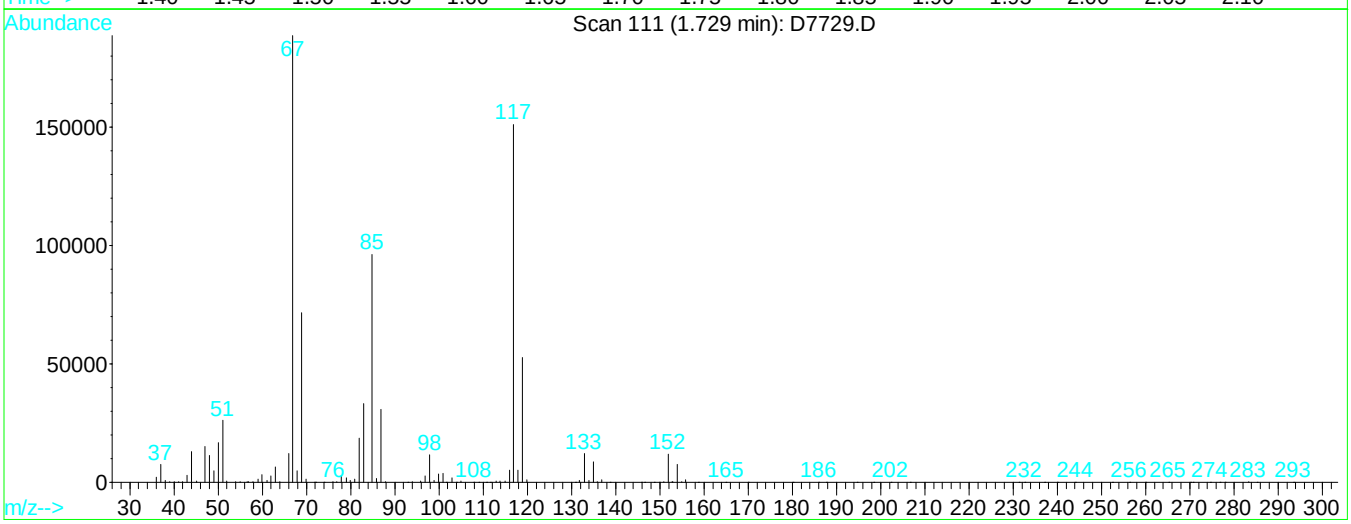
D7729.D W082417.M Fri Aug 25 11:04:16 2017

1st DL 08/25/17
2nd FW 08/26/17

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

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

Manual Integration:

Before

08/25/17

1st DL 08/25/17
2nd FJ 08/26/17

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) SURR3,Toluene-d8	7.89	98	888073	116.76	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 233.52%#			
86) SURR2,BFB	10.25	95	413363	125.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 251.70%#			
Target Compounds						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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

	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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

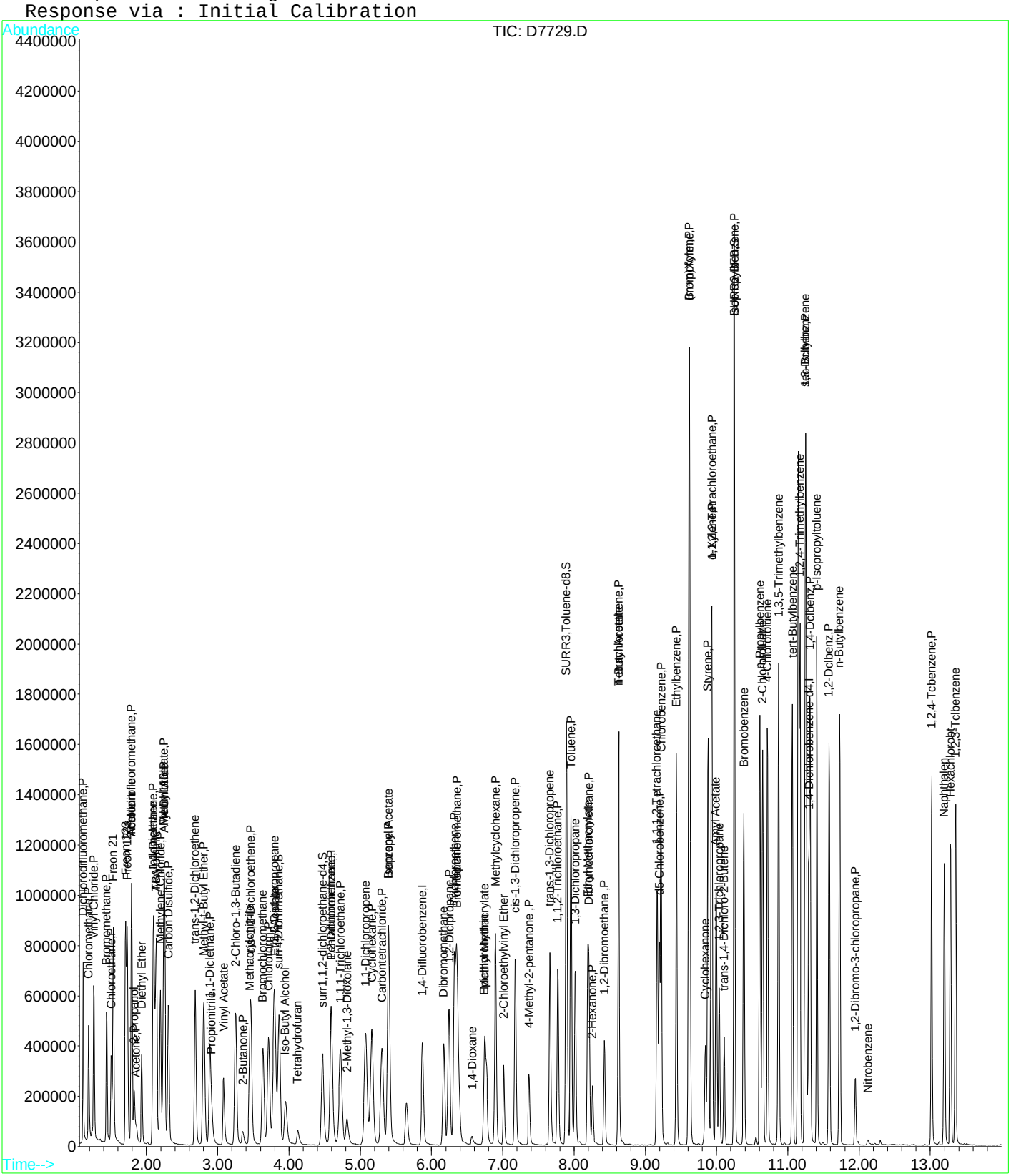
Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 10:54:27 2017
Response via : Initial Calibration
DataAcq Meth : W082417

	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

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

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

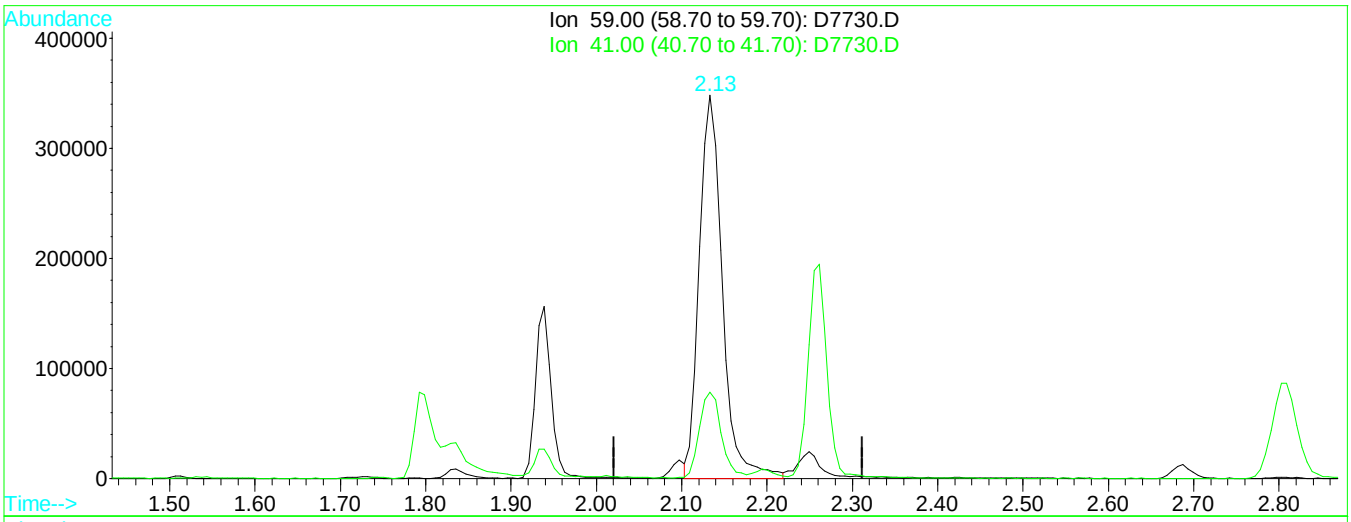
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 10:54:27 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

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

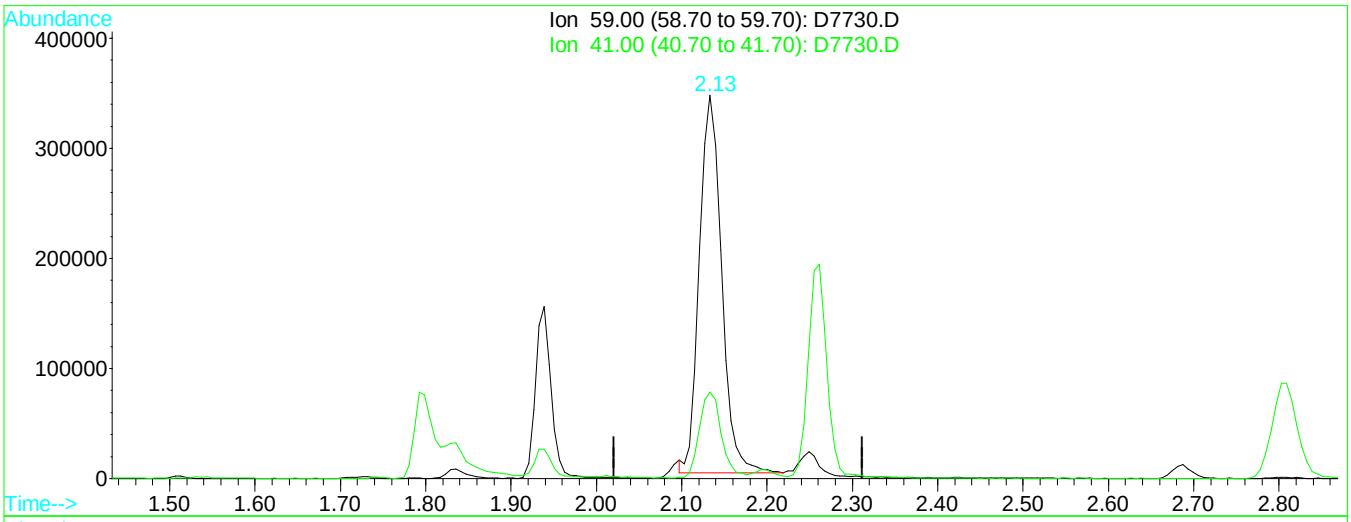
Poor integration.

08/25/17

Quantitation Report (Qedit)

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

2.13min 3126.19ug/L

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

Manual Integration:

Before

08/25/17

Quantitation Report (QT Reviewed)

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) SURR3,Toluene-d8	7.89	98	1071029	137.77	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 275.54%#			
86) SURR2,BFB	10.25	95	528888	157.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 314.20%#			
Target Compounds						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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

	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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

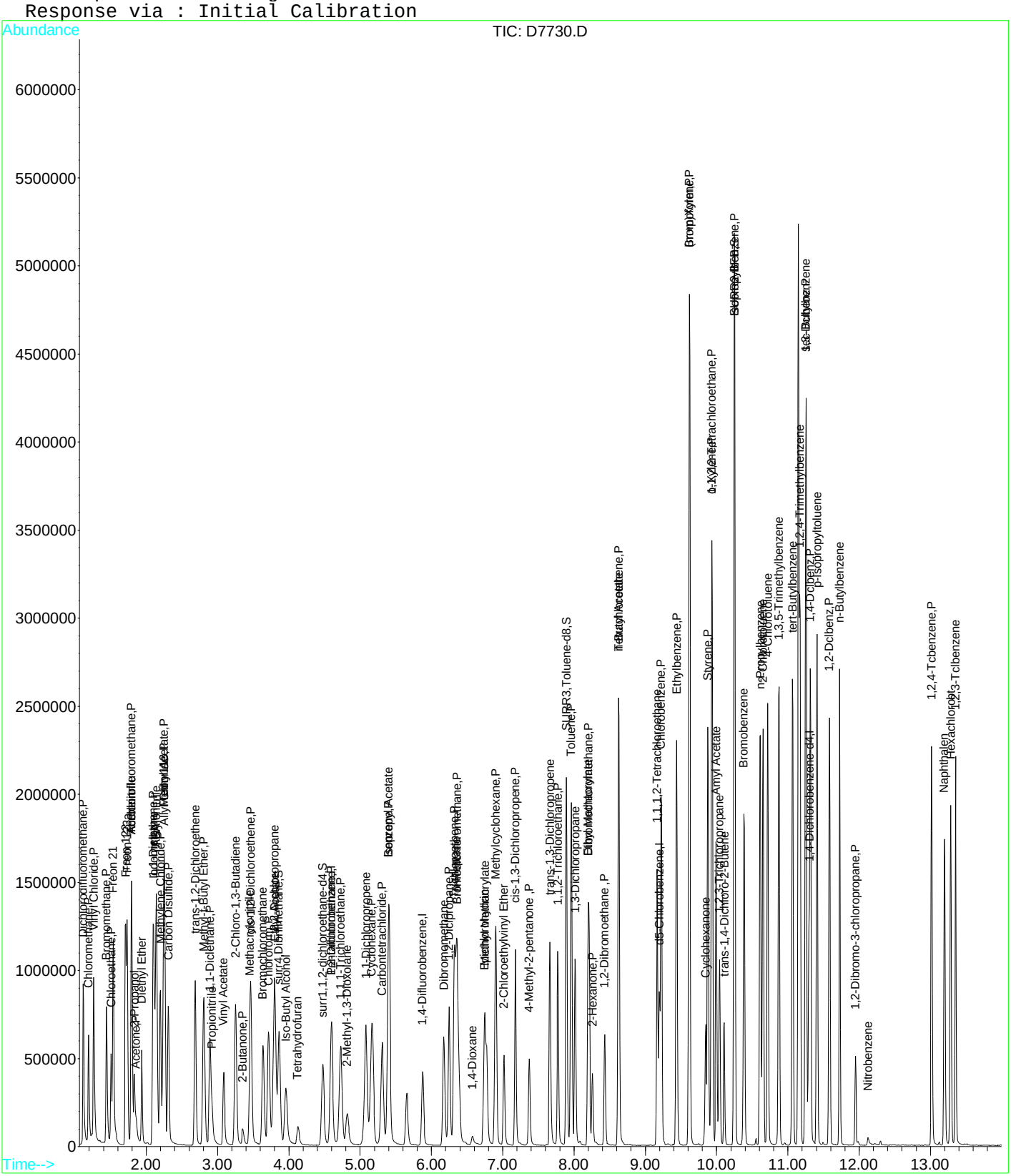
Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:05:49 2017
Response via : Initial Calibration
DataAcq Meth : W082417

	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

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

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

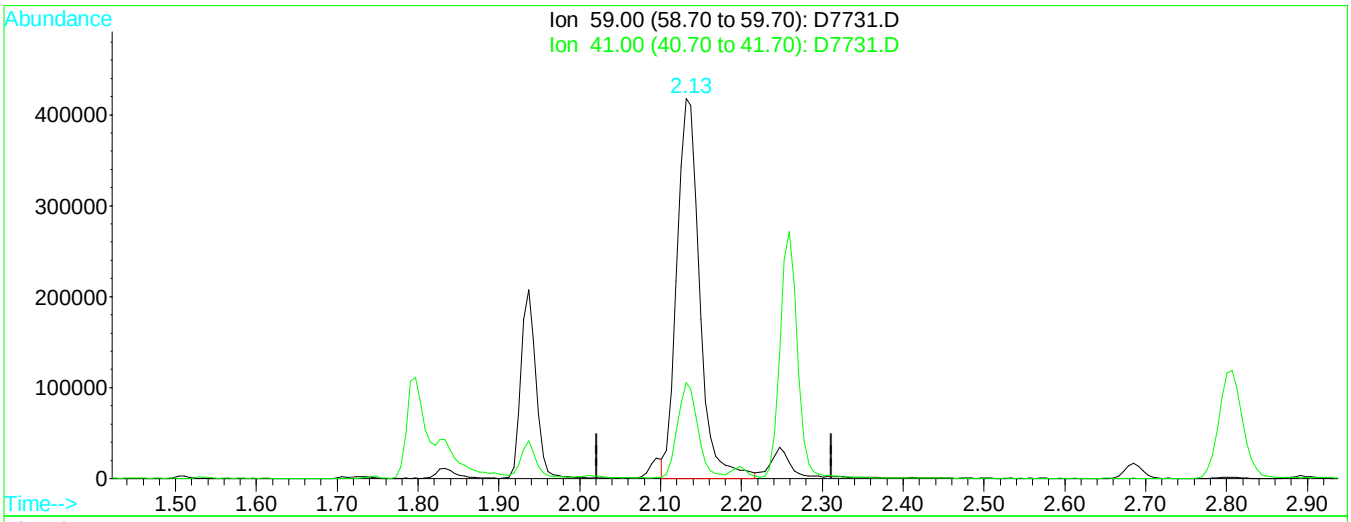
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:05:49 2017
Response via : Initial Calibration

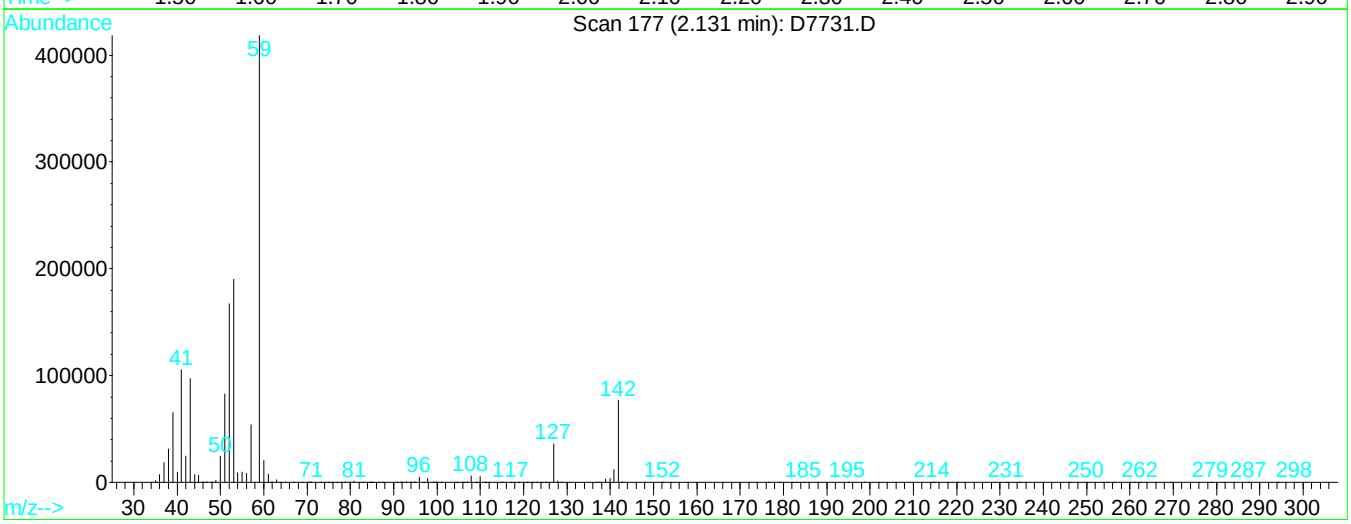


Quantitation Report (Qedit)

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

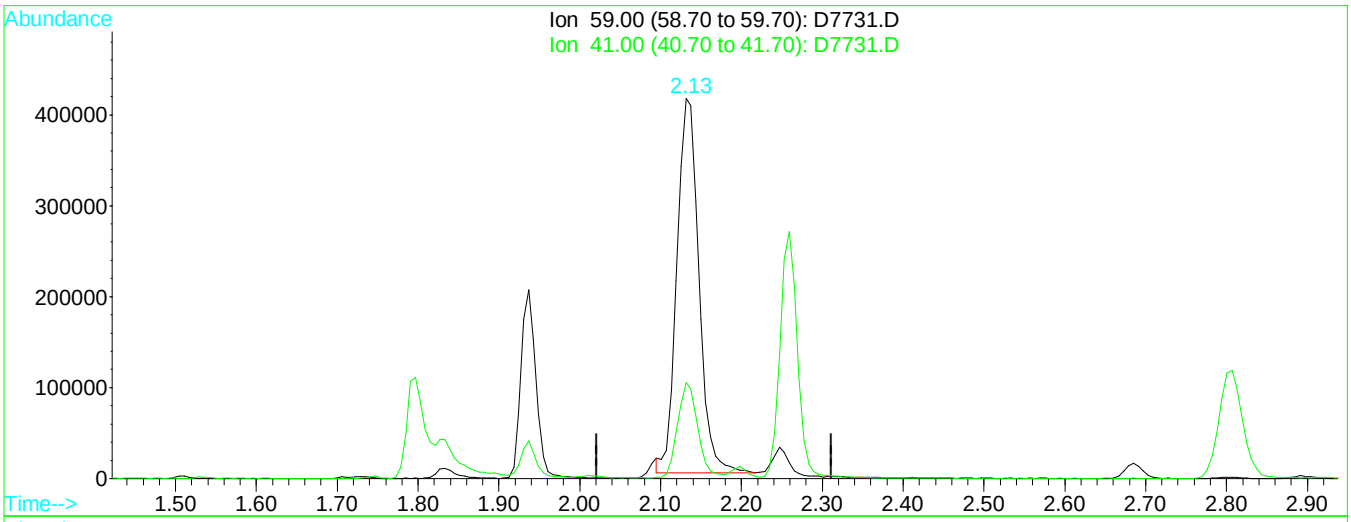
Poor integration.

08/25/17

Quantitation Report (Qedit)

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

2.13min 3884.41ug/L

response 781122

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:

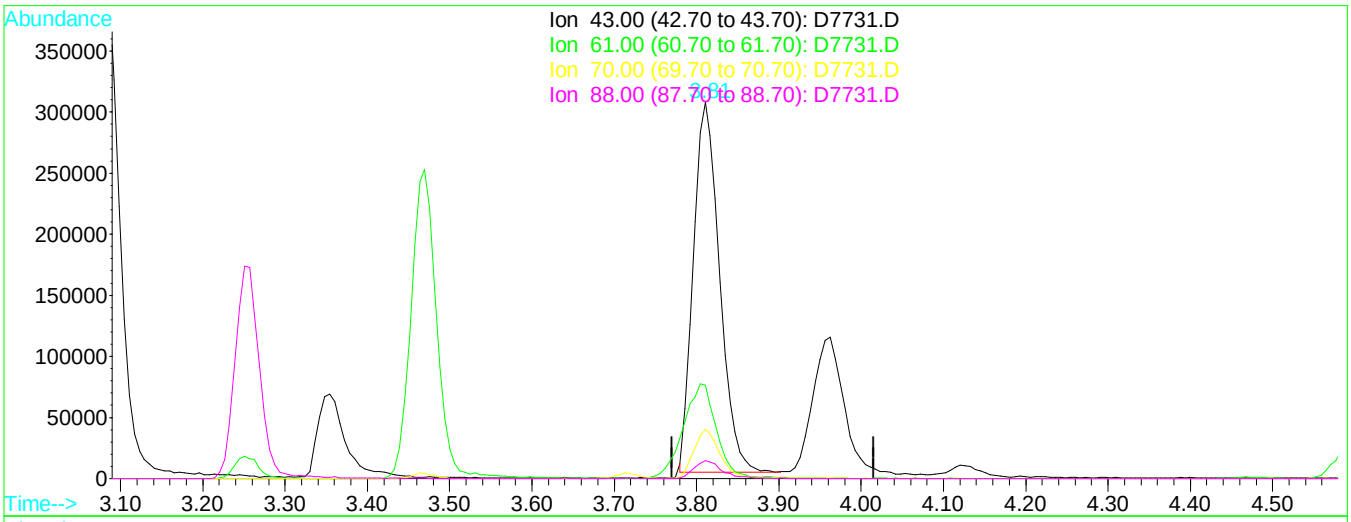
Before

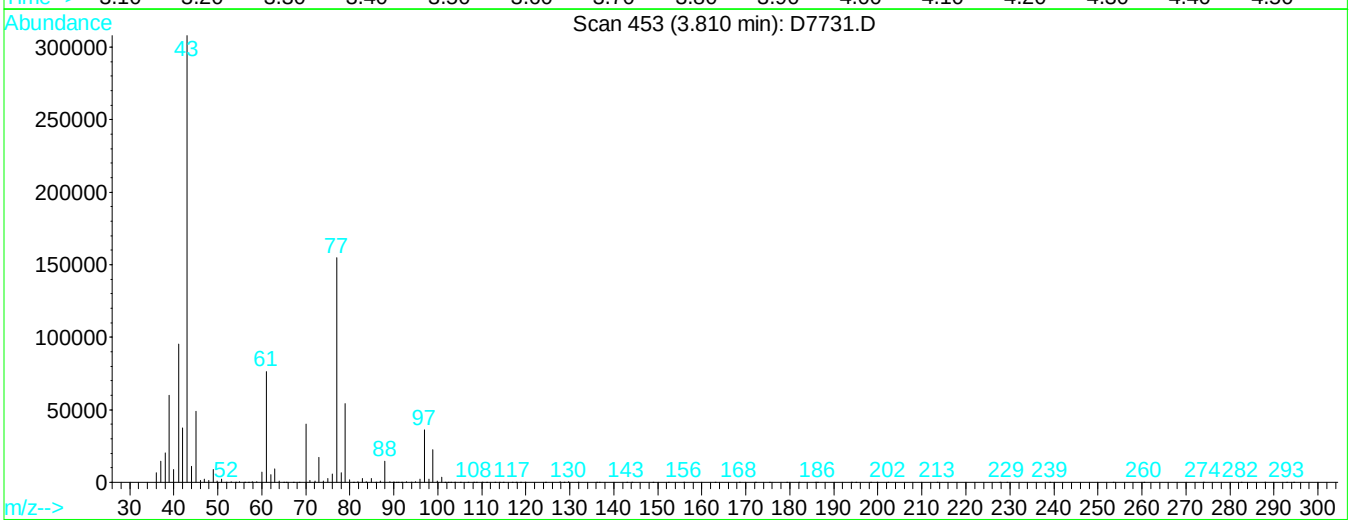
08/25/17

Quantitation Report (Qedit)

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

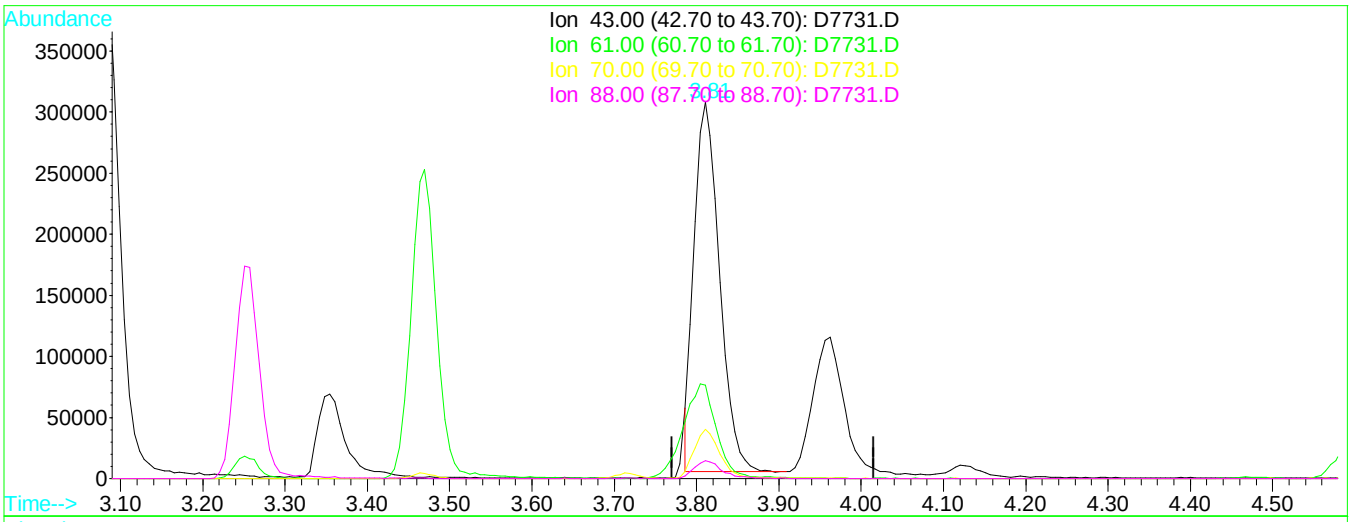
Poor integration.

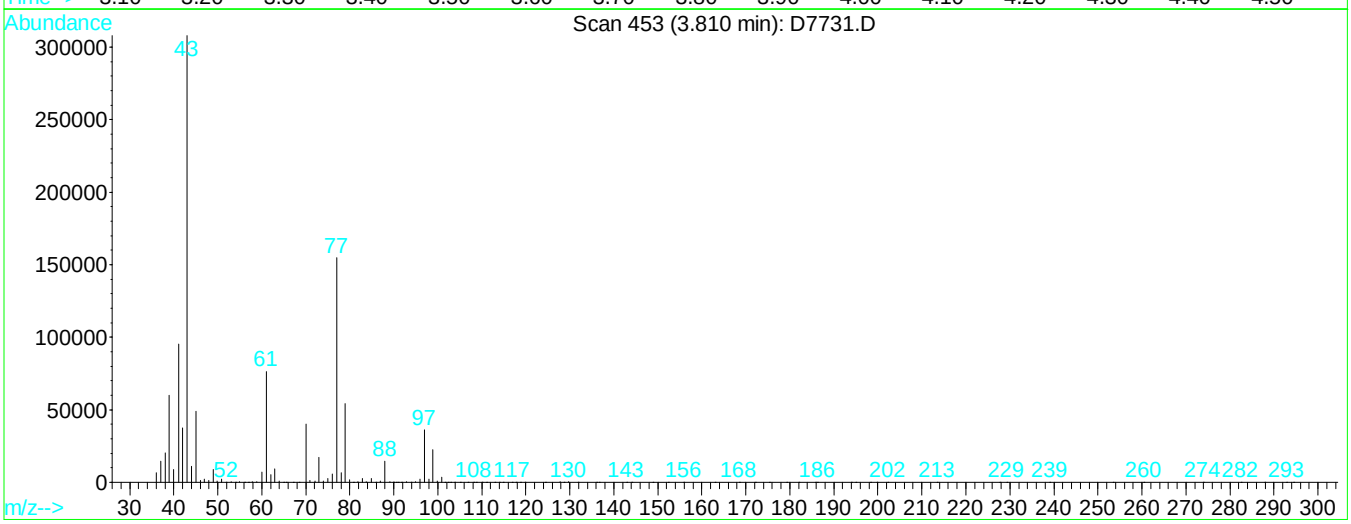
08/25/17

Quantitation Report (Qedit)

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

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:

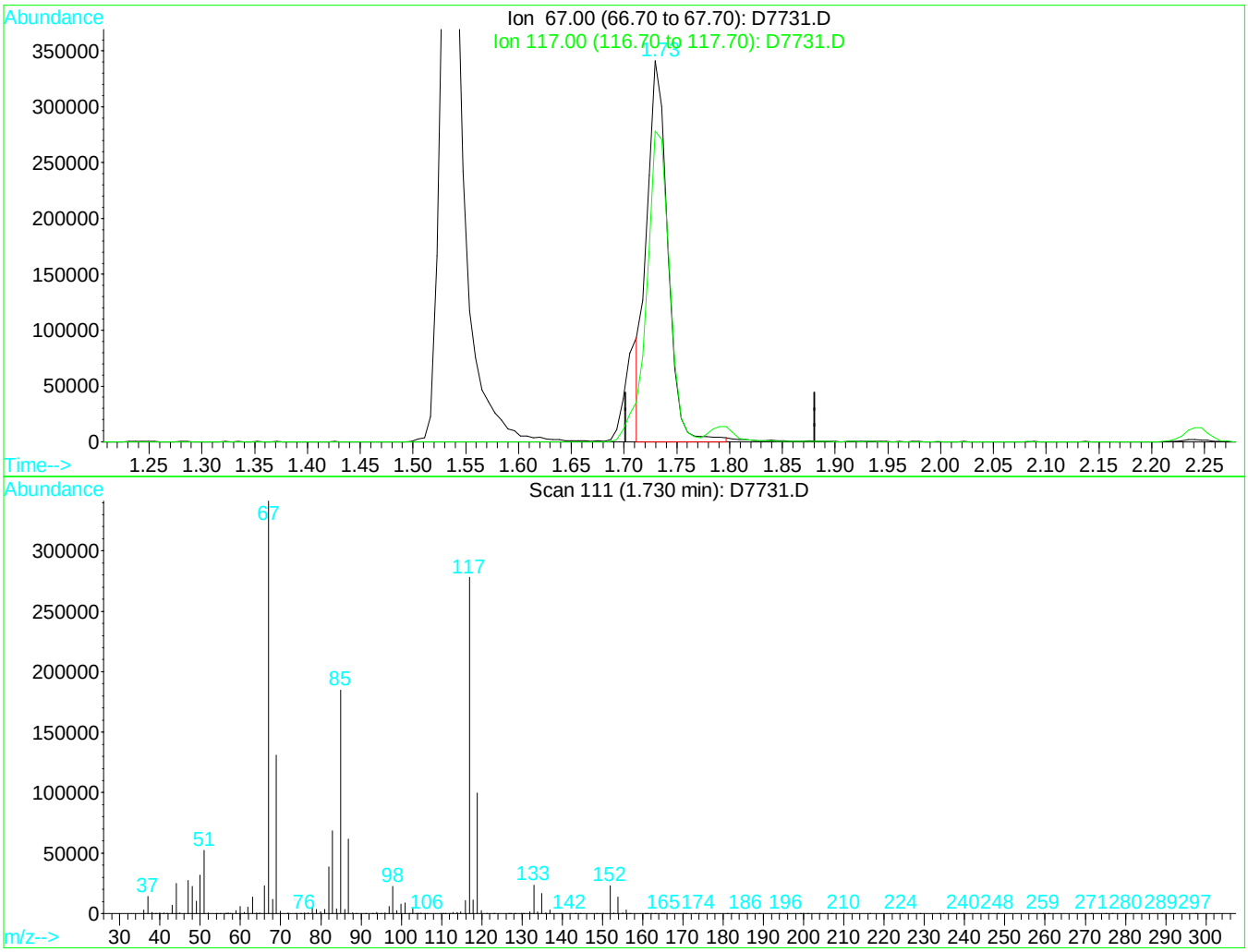
Before

08/25/17

Quantitation Report (Qedit)

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

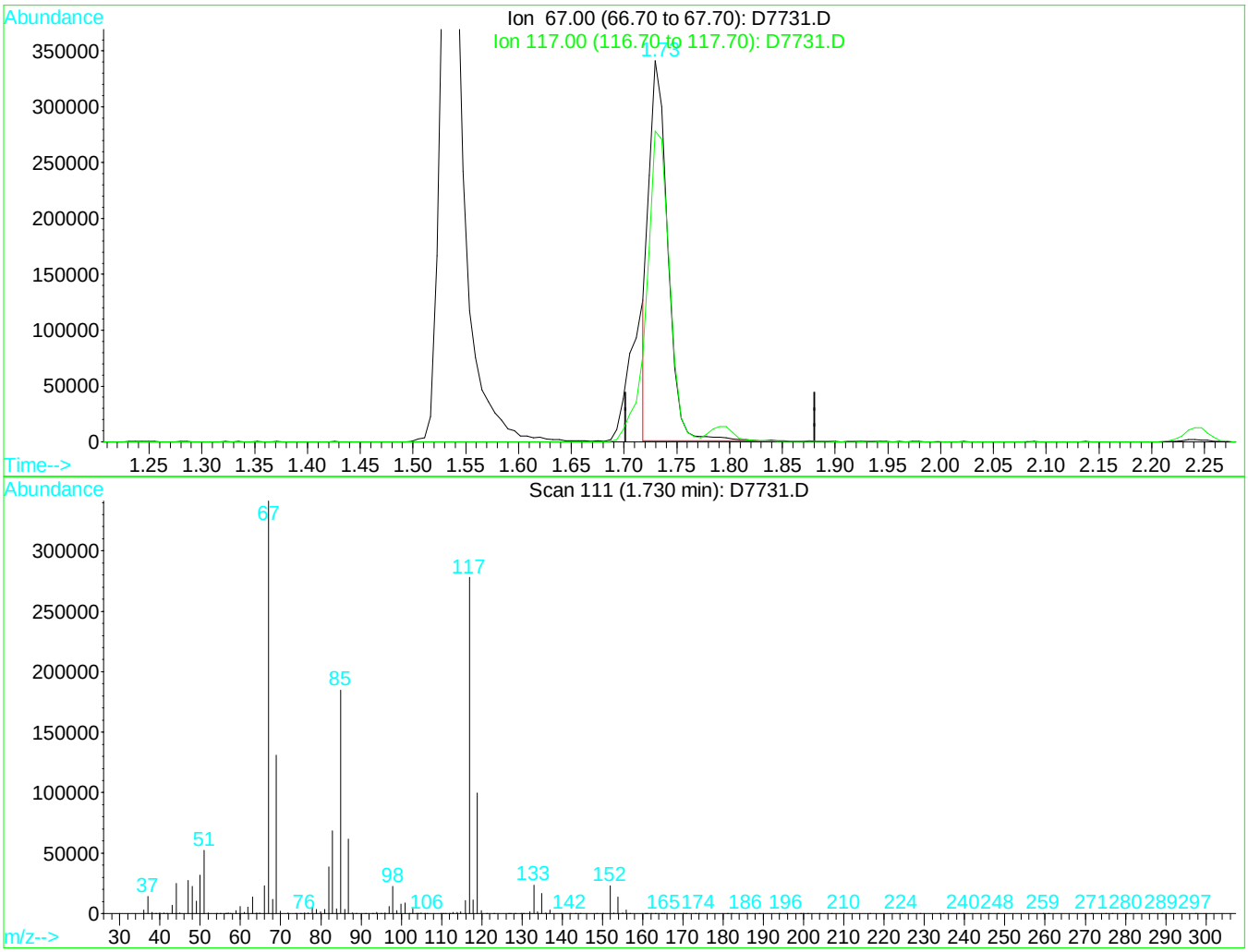
Poor integration.

08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

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:

Before

08/25/17

Quantitation Report (QT Reviewed)

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) SURR3,Toluene-d8	7.89	98	443373	54.72	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.44%			
86) SURR2,BFB	10.25	95	207463	58.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 117.84%			
Target Compounds						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-Diclethene	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-Diclethane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

	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-Diclpropane	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

1st DL 08/25/17
2nd FJ 08/26/17

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

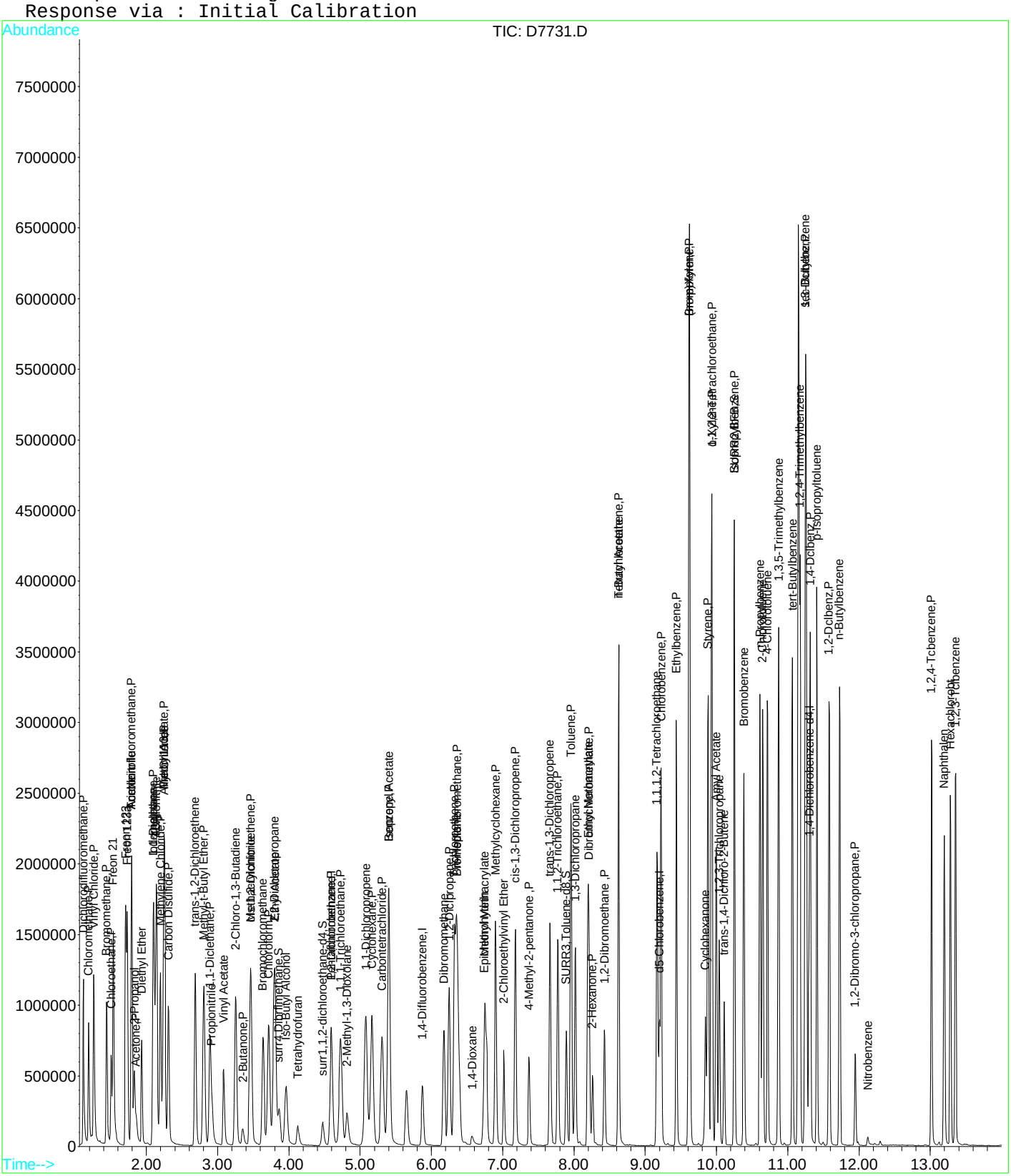
Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:10:33 2017
Response via : Initial Calibration
DataAcq Meth : W082417

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

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

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

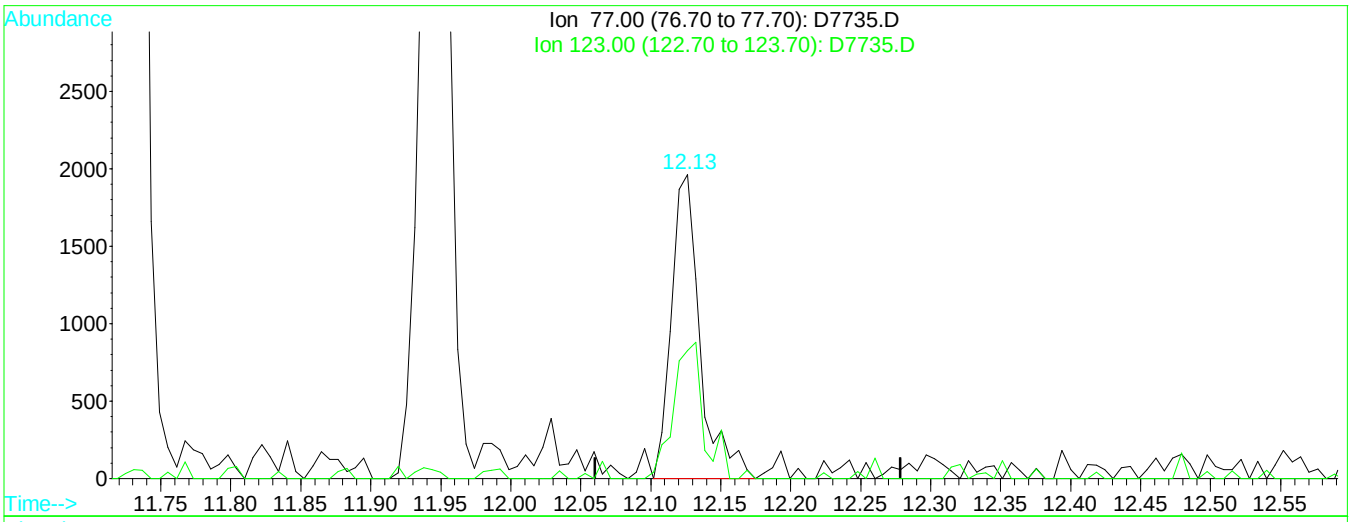
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Aug 25 11:10:33 2017
Response via : Initial Calibration

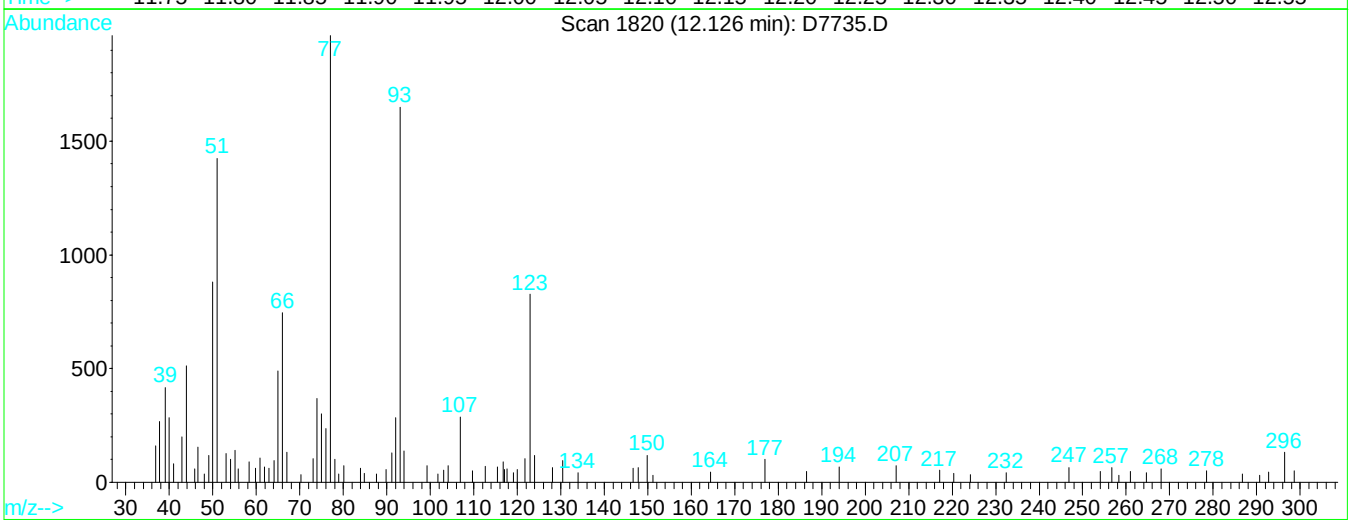


Quantitation Report (Qedit)

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

12.13min 87.28ug/L m

response 2801

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

Manual Integration:

After

Split Peak.

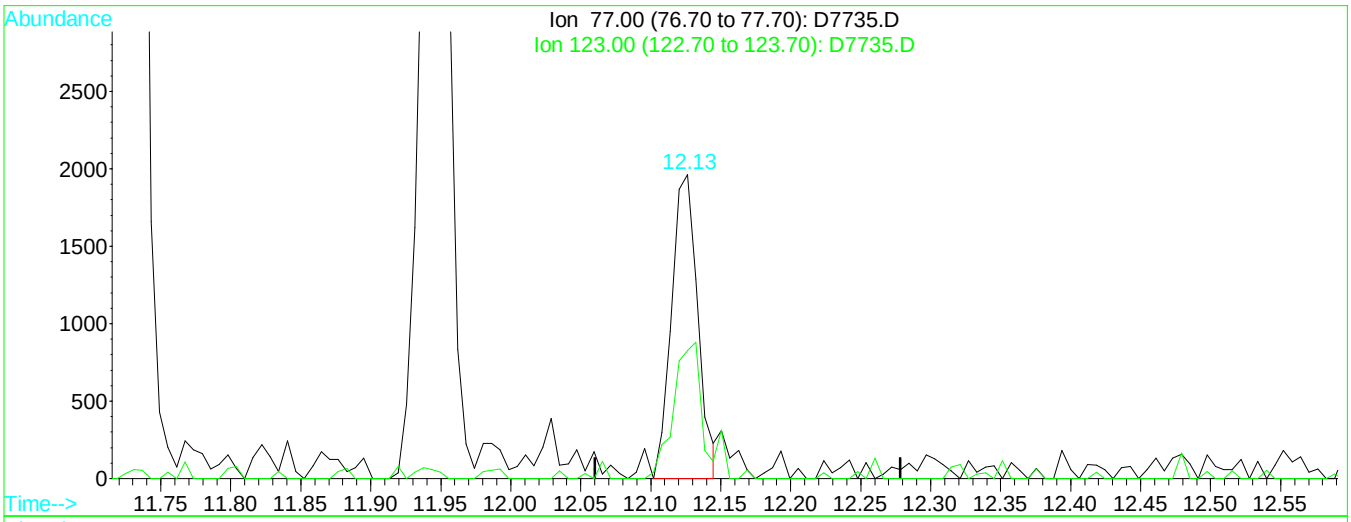
08/25/17

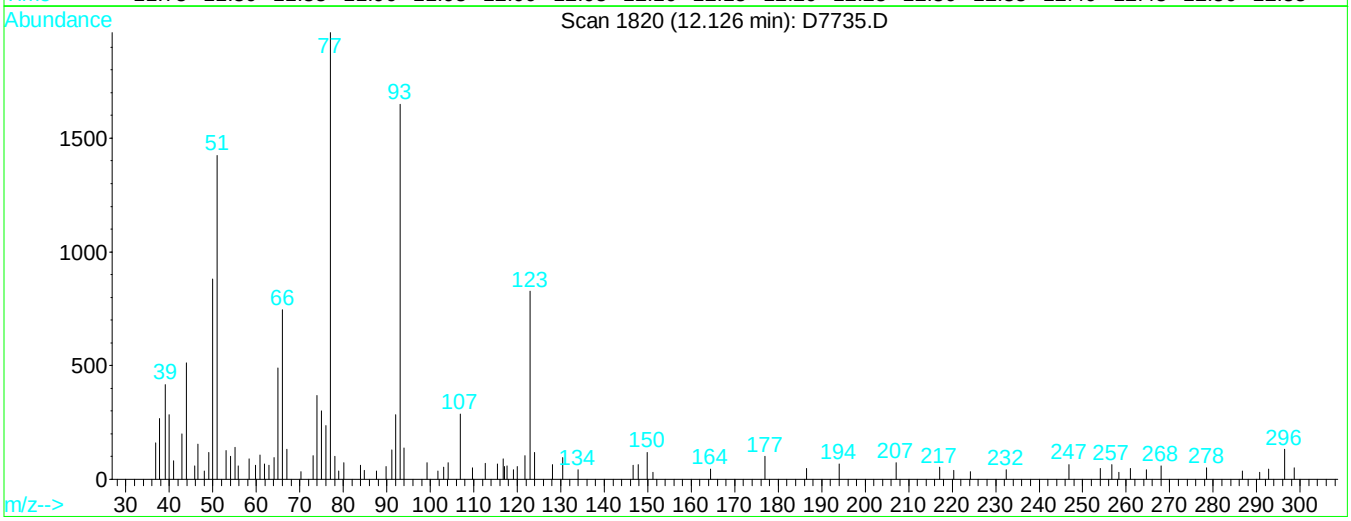
1st DL 08/25/17
2nd FW 08/26/17

Quantitation Report (Qedit)

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

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

Manual Integration:

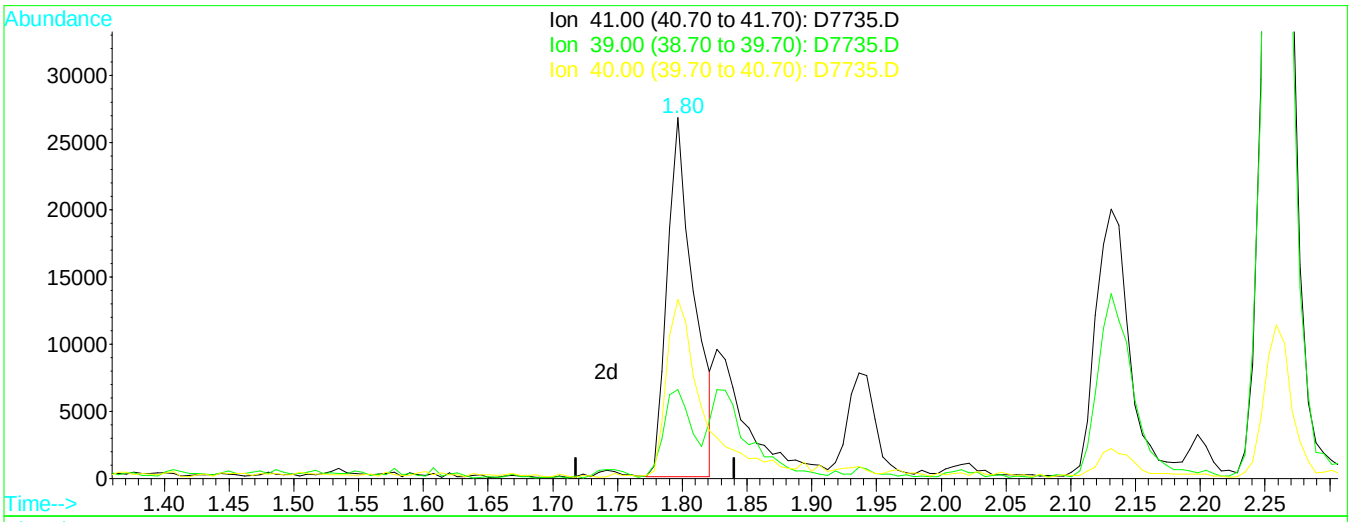
Before

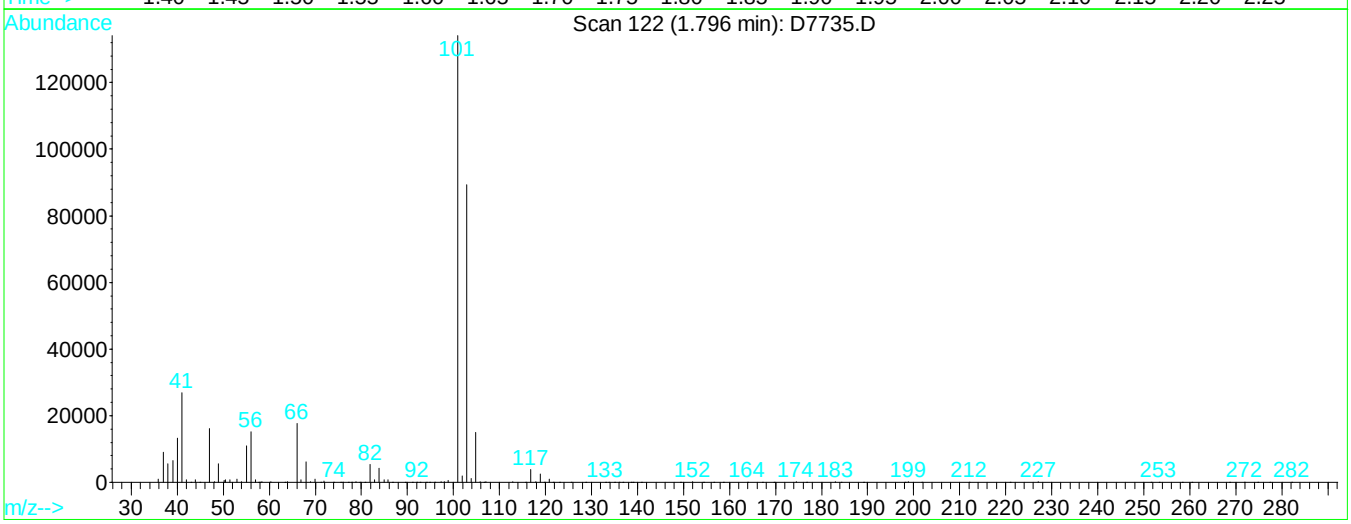
08/25/17

Quantitation Report (Qedit)

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.

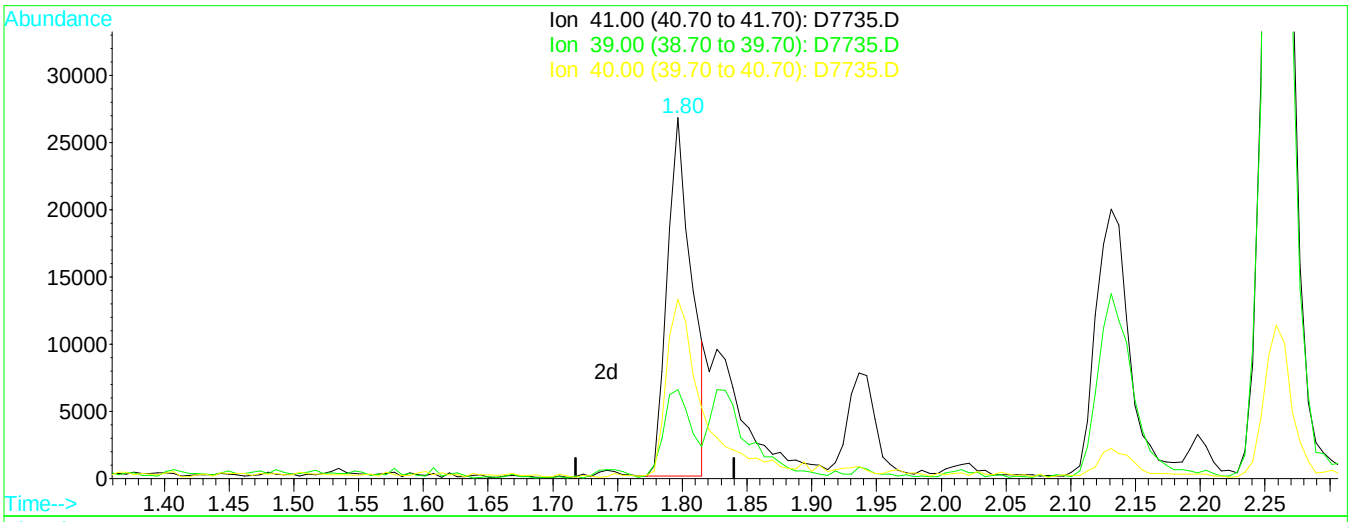
08/25/17

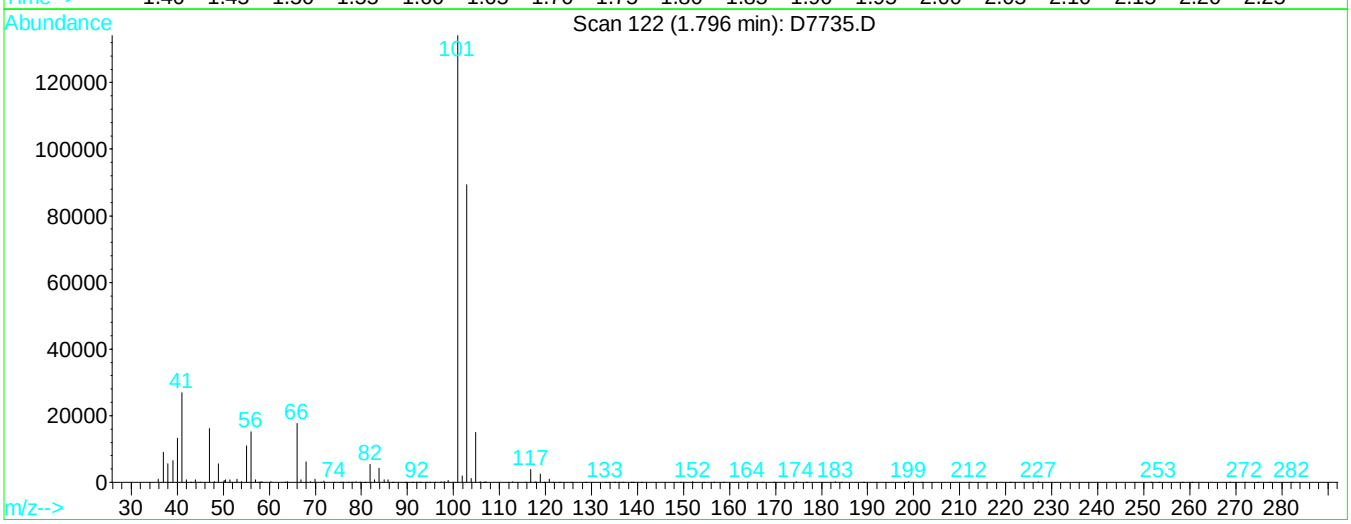
D7735.D W082417.M Fri Aug 25 11:38:46 2017

Quantitation Report (Qedit)

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

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:

Before

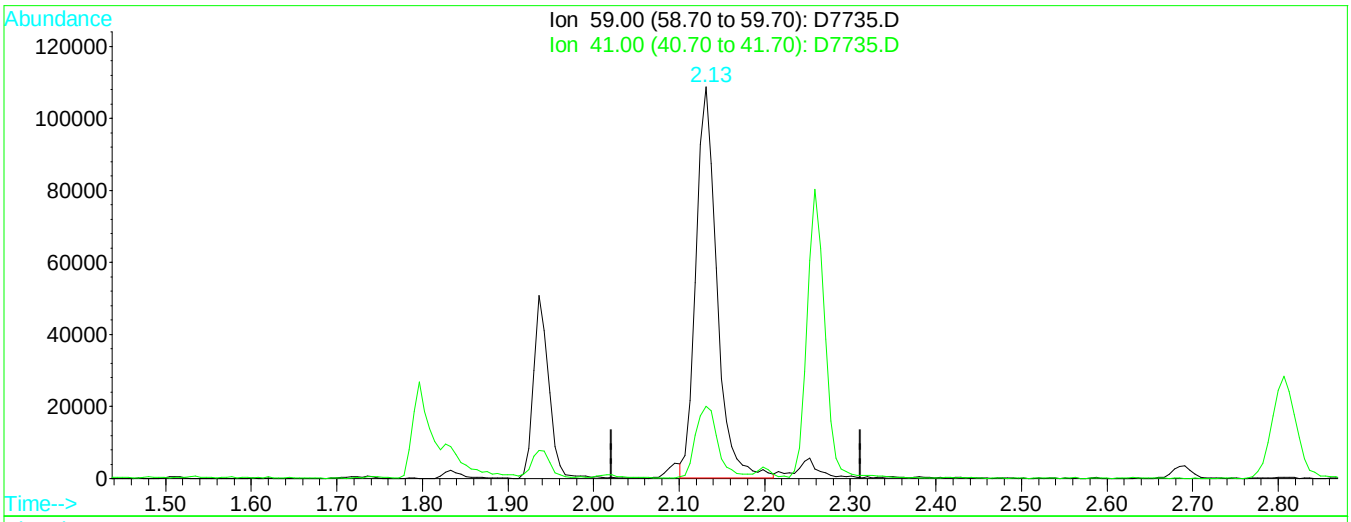
08/25/17

D7735.D W082417.M Fri Aug 25 11:38:23 2017

Quantitation Report (Qedit)

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

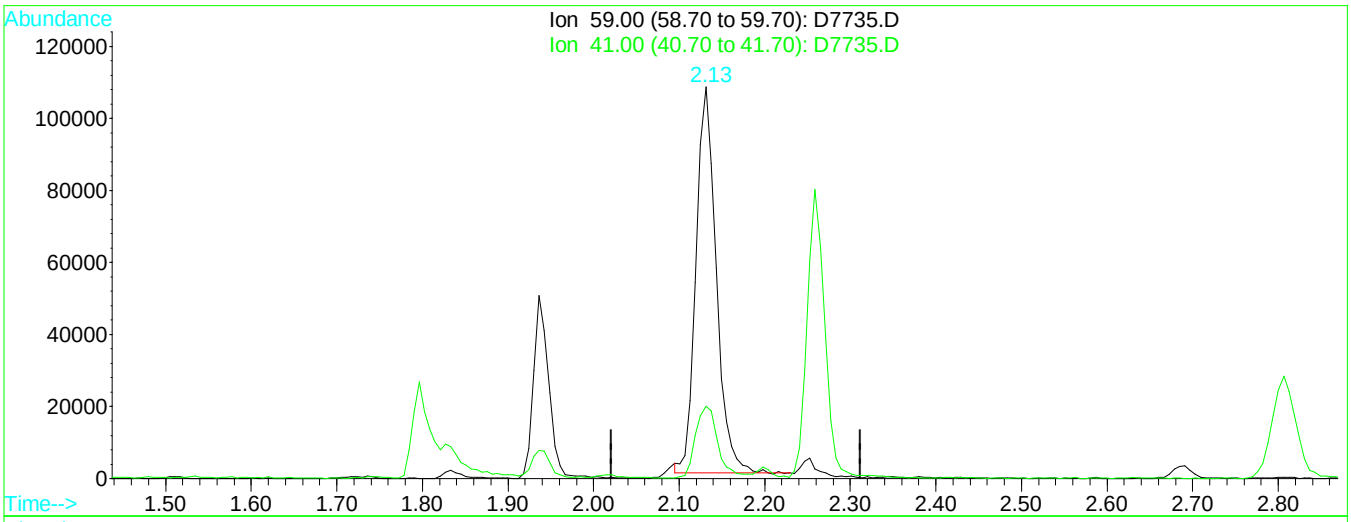
Poor integration.

08/25/17

1st DL 08/25/17
2nd FW 08/26/17

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

2.13min 954.63ug/L

response 174520

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:

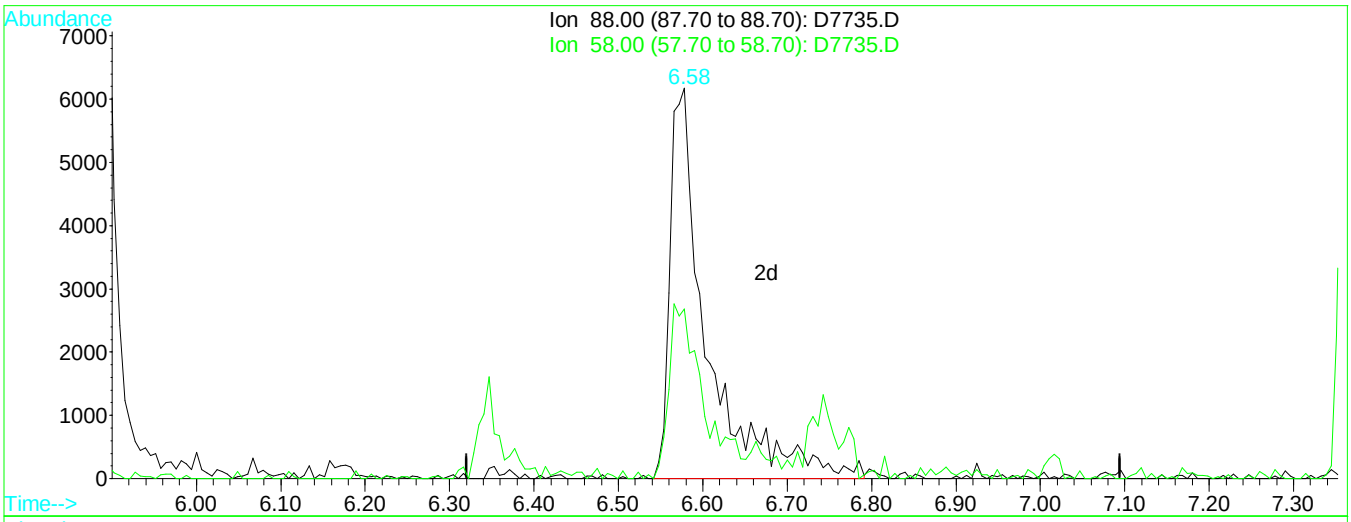
Before

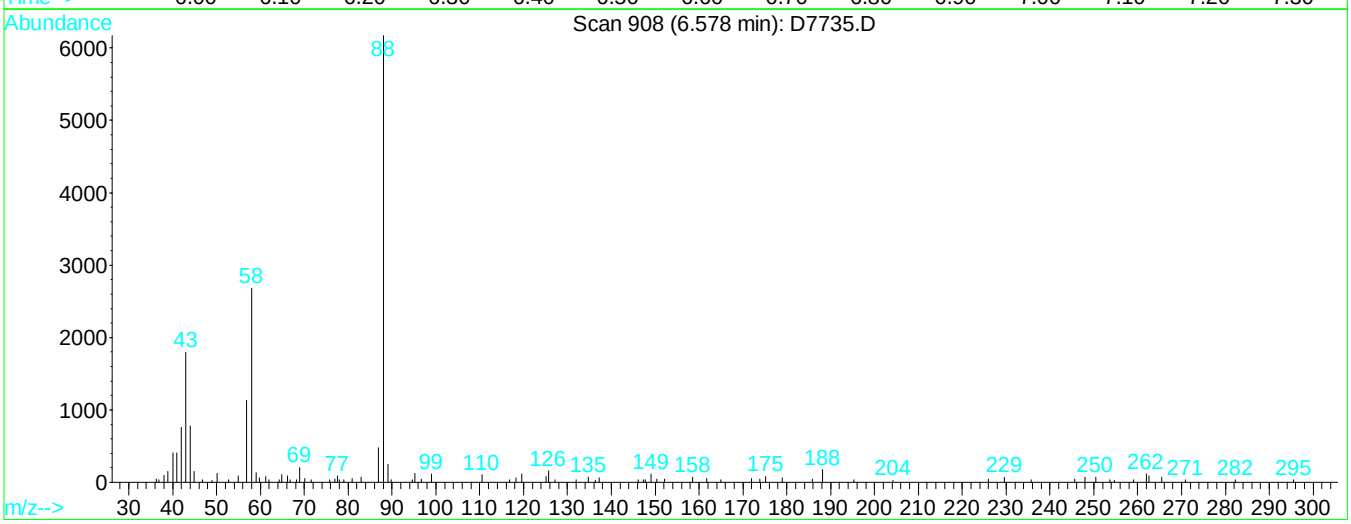
08/25/17

Quantitation Report (Qedit)

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

6.58min 1021.49ug/L m

response 18783

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

Manual Integration:

After

Split Peak.

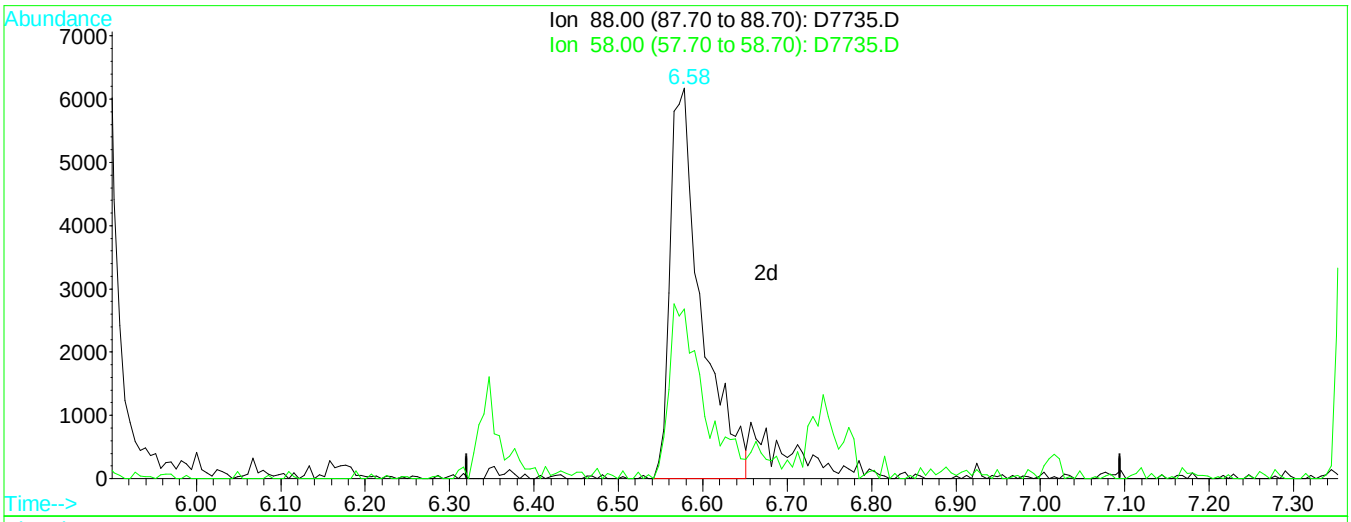
08/25/17

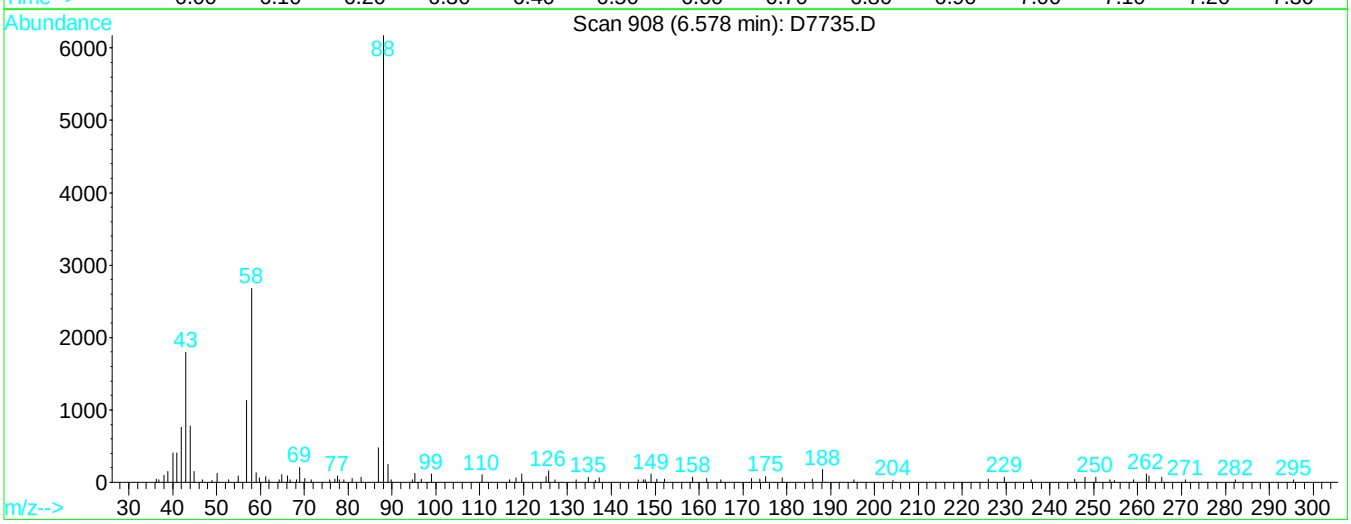
D7735.D W082417.M Fri Aug 25 11:40:25 2017

1st DL 08/25/17
2nd FW 08/26/17

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

6.58min 861.82ug/L

response 15847

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

Manual Integration:

Before

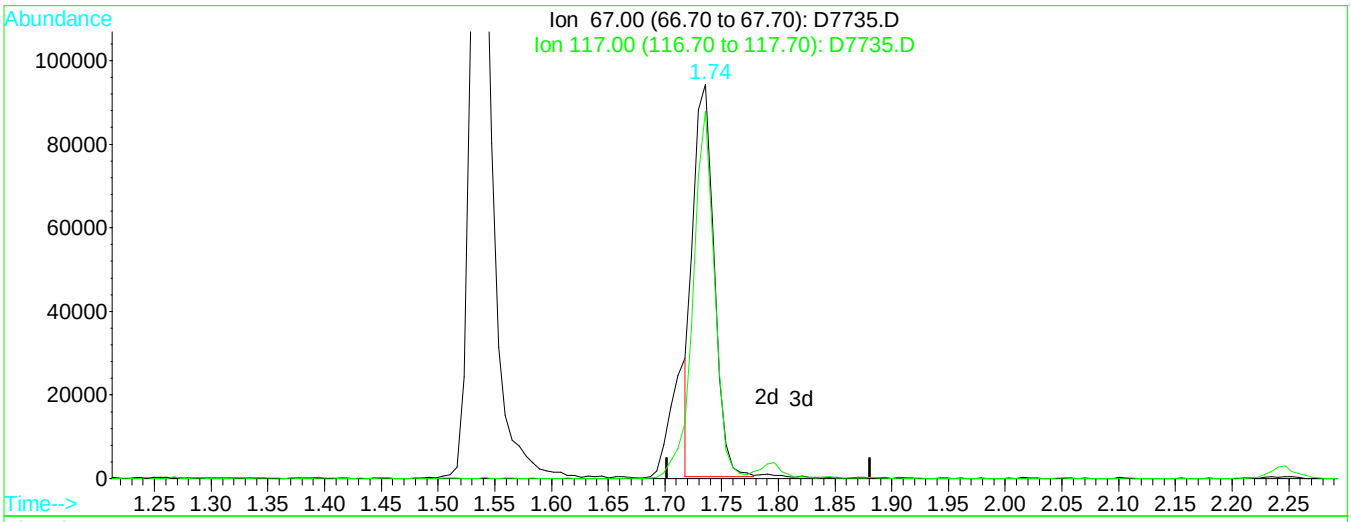
08/25/17

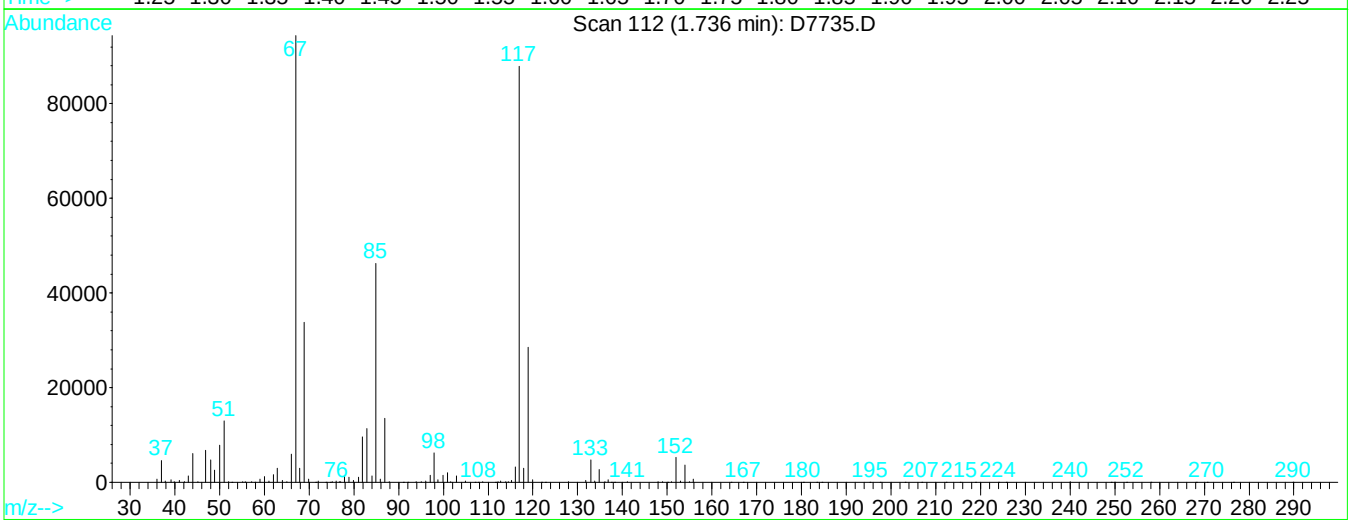
D7735.D W082417.M Fri Aug 25 11:40:13 2017

Quantitation Report (Qedit)

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

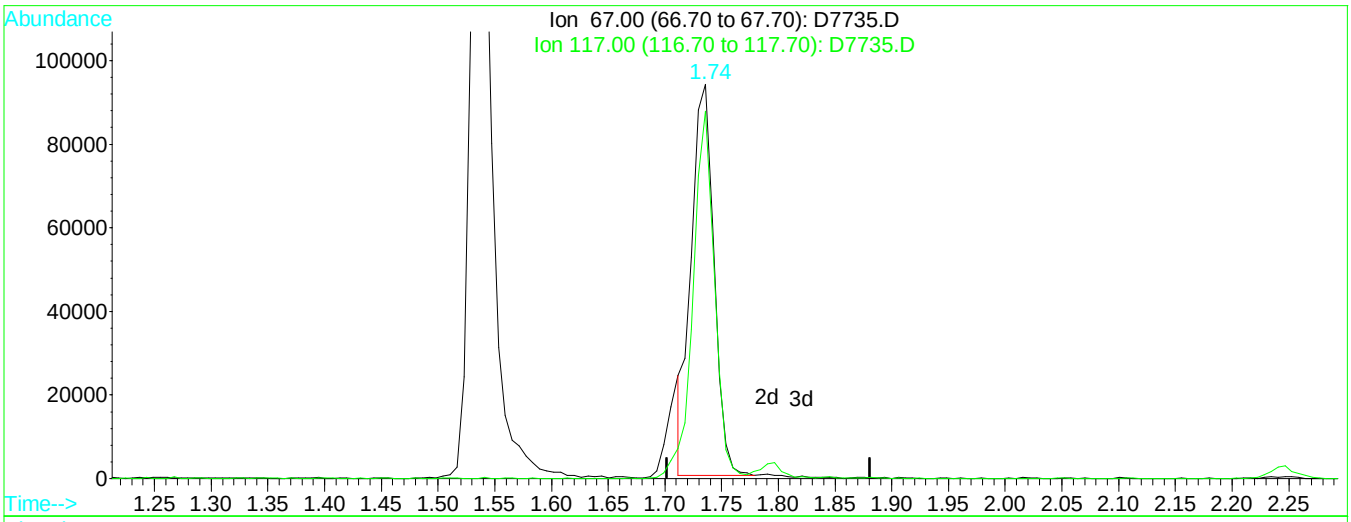
Poor integration.

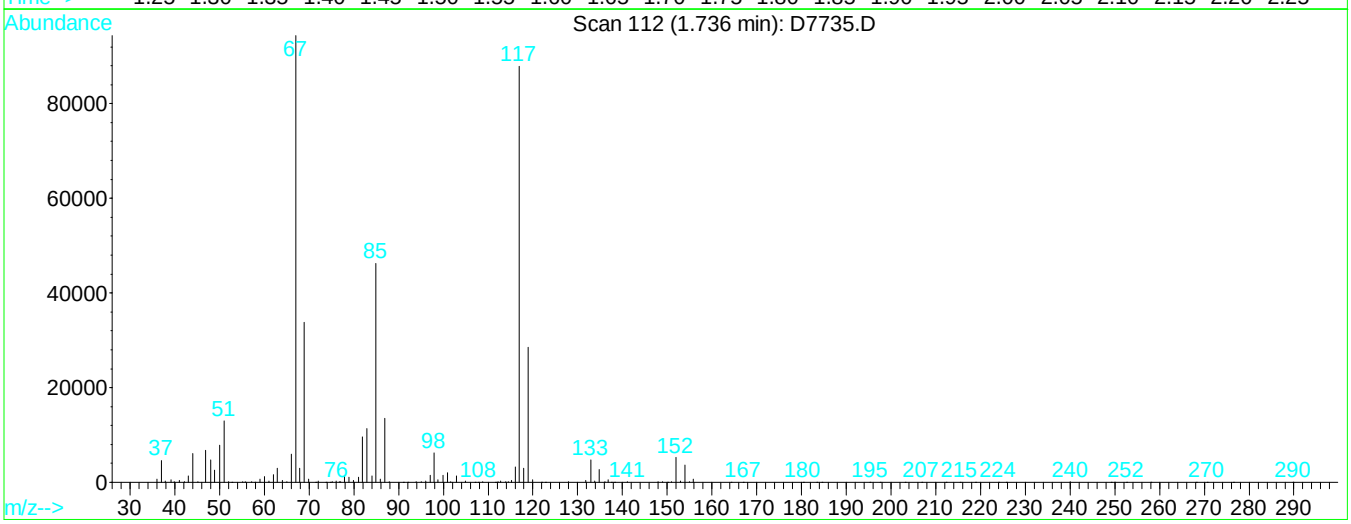
08/25/17

Quantitation Report (Qedit)

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

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:

Before

08/25/17

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood **Calibration Date:** 8/24/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700082 **Signal ID:** 1
Instrument ID: R-MS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1700082-10	STD #1 - 0.5 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D	08/24/2017 09:44
09	RC1700082-09	STD #2 - 1.0 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D	08/24/2017 10:25
08	RC1700082-08	STD #3 - 2.0 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D	08/24/2017 10:53
07	RC1700082-07	STD #4 - 5.0 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D	08/24/2017 11:33
06	RC1700082-06	STD #5 - 20 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D	08/24/2017 12:00
05	RC1700082-05	STD #6 - 50 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7728.D	08/24/2017 12:27
04	RC1700082-04	STD #7 - 100 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D	08/24/2017 13:07
03	RC1700082-03	STD #8 - 150 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7730.D	08/24/2017 13:34
02	RC1700082-02	STD #9 - 200 PPB	I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D	08/24/2017 14:08

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.7749	09	1.000	0.7172	08	2.000	0.6549	07	5.000	0.65
06	20.000	0.6816	05	50.000	0.6043	04	100.000	0.6071	03	150.000	0.5791
02	200.000	0.5645									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.5804	08	2.000	0.6021	07	5.000	0.539	06	20.000	0.6016
05	50.000	0.5535	04	100.000	0.5519	03	150.000	0.5216	02	200.000	0.5048

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3848	09	1.000	0.3808	08	2.000	0.3634	07	5.000	0.3243
06	20.000	0.3498	05	50.000	0.3304	04	100.000	0.3344	03	150.000	0.317
02	200.000	0.3158									

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									

Client: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood **Calibration Date:** 8/24/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700082 **Signal ID:** 1
Instrument ID: R-MS-06

Analyte

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						

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: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood **Calibration Date:** 8/24/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700082 **Signal ID:** 1
Instrument ID: R-MS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	10.5	≤20	0.6482	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	6.4	≤20	0.5569	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	7.7	≤20	0.3445	0.100
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: Verina Consulting Group, LLC **Service Request:** R1708648
Project: Dover - Kirkwood **Calibration Date:** 8/24/2017

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1700082 **Signal ID:** 1
Instrument ID: R-MS-06

#	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
1,1,1-Trichloroethane (TCA)	50.0	48.4	6.482E-1	6.274E-1	-3.202	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.2	5.569E-1	5.594E-1	0.449	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.2	3.445E-1	3.181E-1	-7.673	±30	Average RF
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

Client: Verina Consulting Group, LLC
Project: Dover - Kirkwood/5101.0002

Service Request: R1708648
Date Analyzed: 09/15/17 09:31

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D\

Calibration Date: 8/24/2017
Calibration ID: RC1700082
Analysis Lot: 561775
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.7	0.6482	0.6436	-0.7	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	55.3	0.5569	0.6164	10.7	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	52.8	0.3445	0.3639	5.6	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	49.8	0.597	0.5945	-0.4	NA	±20	Average RF
Trichloroethene (TCE)	50.0	50.2	0.3242	0.3253	0.3	NA	±20	Average RF
Vinyl Chloride	50.0	53.6	0.6105	0.6544	7.2	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	56.7	0.3919	0.4443	13.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	54.0	0.367	0.3962	7.9	NA	±20	Average RF
4-Bromofluorobenzene	50.0	53.4	0.9365	1.0009	6.9	NA	±20	Average RF
Dibromofluoromethane	50.0	51.1	0.3586	0.3668	2.3	NA	±20	Average RF
Toluene-d8	50.0	54.2	1.0124	1.0983	8.5	NA	±20	Average RF

Client: Verina Consulting Group, LLC **Service Request:**R1708648
Project: Dover - Kirkwood/5101.0002

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**561775
Instrument ID:R-MS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA6\DATA\091517\D8190.D\	ZZZZZZZ	ZZZZZZZ	9/15/2017	08:53:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8191.D\	Continuing Calibration Verification	RQ1709369-02	9/15/2017	09:31:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8192.D\	Lab Control Sample	RQ1709369-03	9/15/2017	10:04:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8194.D\	Method Blank	RQ1709369-04	9/15/2017	10:57:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8195.D\	IJ-1	R1708648-003	9/15/2017	11:23:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8196.D\	IJ-10	R1708648-004	9/15/2017	11:49:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8197.D\	IJ-4	R1708648-005	9/15/2017	12:15:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8198.D\	MW-24	R1708648-006	9/15/2017	12:41:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8199.D\	MW-28	R1708648-007	9/15/2017	13:06:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8200.D\	MP-11	R1708648-015	9/15/2017	13:32:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8201.D\	MP-12	R1708648-008	9/15/2017	13:58:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8202.D\	MP-14	R1708648-009	9/15/2017	14:24:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8203.D\	MP-5	R1708648-012	9/15/2017	14:50:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8205.D\	MP-4	R1708648-014	9/15/2017	15:44:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8206.D\	MW-16	R1708648-011	9/15/2017	16:11:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8208.D\	MW-7A	R1708648-013	9/15/2017	17:02:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8209.D\	MW-25	R1708648-010	9/15/2017	17:28:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8210.D\	MW-3	R1708648-001	9/15/2017	17:54:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8211.D\	MP-6S	R1708648-002	9/15/2017	18:20:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8212.D\	DUP-091317	R1708648-016	9/15/2017	18:46:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8213.D\	MP-6S	R1708648-002	9/15/2017	19:12:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8214.D\	MW-3 MS	RQ1709369-05	9/15/2017	19:37:00	
I:\ACQUDATA\MSVOA6\DATA\091517\D8215.D\	MW-3 DMS	RQ1709369-06	9/15/2017	20:03:00	

Analysis: 8260C/624 | Analyst: D. Lipani | pH strips: Hydrion 206717 | Tune Method: W082417.M

Date: 09/15/17 Run#1 | Balance ID: — | ResCl strips: HF 033117L | Run Method: ↓

Instr. GCMS#6 | 50 mL Class A used for dilution FV | Syringes: 181116 (10µL) | LIMS Run#: 561775

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	Blk							D8189	Y	
2	Tune Check		(Run as a Blk)					D8190	Y	
3	CCV							91	Y	
4	LCS							92	Y	
5	Met Blk							93	N	
6	Met Blk							94	Y	
7	R1708648-003	10	5.0mL/50mL	7979	IV	-1	~2	95	Y	weak but dark purple/foamy! - pH paper colored by? matrix?
8	-004	10	5.0mL/50mL			-1	~2	96	Y	" " " " "
9	-005	5.0	10mL/50mL			-1-2	~8	97	Y	Had to decant! limited volume! Foamy
10	-006	1.0				-1-2	~6	98	Y	" " " " "
11	-007	5.0	10mL/50mL			-1	~6	99	Y	— weak but dark purple/foamy!
12	-015	1.0				-1	6	D8200	Y	
13	-008	2.0	25mL/50mL			-1-2	6	01	Y	— weak but decanted (limited vol.)
14	-009	1.0				-1	6	02	Y	
15	-012	2.0	25mL/50mL			-1-2	6	03	Y	— weak but decanted (lim. vol.)
16	-016	20	2.5mL/50mL			-1	7	04	(N)	— weak rpt 1/5
17	-014	~~20~~	~~2.5mL/50mL~~ 5.0 (10mL/50mL)			-1	7	05	Y	
18	-011	1.0	← DL 9/15/17			-1-2	7	06	Y	— decanted from 2 vials!
19	-010	5.0	10mL/50mL			-1	7	07	(N)	— PCE at MDL - might be x-over - rpt 1.0, foamy!
20	-013	1.0				-1	7	08	Y	
21	-010	5.0	10mL/50mL			-2	7	09	Y	— clean! report! (Foamy. dark purple!)
22	-001	1.0				-1	6	D8210	Y	
23	-002	1.0				-1	6	11	(Y)	— PCET rpt 1/2.5
24	-016	5.0	10mL/50mL			-2	6	12	Y	
25	-002	2.5	20mL/50mL			-2	6	13	Y	= DL MS/DMS:
26	-001MS	1.0				-2	6	14	Y	183878 4.2µL } into
27	-001DMS	1.0		↓	↓	-3	6	15	Y	183623 4.2µL } full vials
28	Blk			—	—	—	—	16	O.K.	184000 10.6µL } sample
		EOD	DL 09/15/17							

All samples = 5.0 mL + 1.0 uL combined IS/Surr. 5.0 mL purged

Combined IS/Surr 250: 183573B

Primary TG: 184032 5.0µL
Primary HSL: 183838 ↓
Primary Fr+: 183932 / 50mL DI = CCV.
Primary: —
Primary: —

Secondary TG: 183878 2.0µL
Secondary HSL: 183623 2.0µL
Secondary Fr+: 184000 5.0µL / 50mL DI = LCS.
Secondary: —
Secondary: —

Surrogate: —
Internal Std: —
Reagents:

Runlog-MSVOAr4 1/17/17

Appendix E

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 1/9/2017

Personnel: BSN, MWG

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X		-	
2	1984 Building Addition floor slab in good condition?	X		-	
3	Area 1 (front employee entrance) landscape cover intact?	X		-	
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X		-	
5	Area 3 (transformer pad location) vegetative cover intact?	X		-	snow covering
6	Area 4 (drainage ditch along CR 181) in good condition?	X		-	
7	Area 5 (drainage ditch along CR 181) in good condition?	X		-	snow covering
8	Area 6 (drainage ditch along CR 181) in good condition?	X		-	
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X		-	
10	ASD system operational?	X		-	
11	ASD system vacuum readings normal?	X		-	
12	ASD system components in good condition?	X		-	

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 2/20/2017

Personnel: BSN, CF

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			Snow Covered
6	Area 4 (drainage ditch along CR 181) in good condition?	X			Snow Covered
7	Area 5 (drainage ditch along CR 181) in good condition?	X			Snow Covered
8	Area 6 (drainage ditch along CR 181) in good condition?	X			Snow Covered
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 3/22/2017

Personnel: MWG, BSN, CF

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			Snow Covered
6	Area 4 (drainage ditch along CR 181) in good condition?	X			Snow Covered
7	Area 5 (drainage ditch along CR 181) in good condition?	X			Snow Covered
8	Area 6 (drainage ditch along CR 181) in good condition?	X			Snow Covered
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST
Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 4/10/2017

Personnel: BSN, CF

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			Some grass growth
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST
Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 5/9/2017

Personnel: BSN, MWG

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			Grass is growing
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 6/19/2017

Personnel: BSN, CF

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			Major grass growth
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST
Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 7/10/2017

Personnel: BSN, CF

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			More grass growth
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST
Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 8/22/2017

Personnel: BSN, MWG

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

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MONTHLY CAP INSPECTION CHECKLIST
Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 9/21/2017

Personnel: MWG + CF

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			Asphalt patch added
5	Area 3 (transformer pad location) vegetative cover intact?	X			
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST
Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 10/24/2017

Personnel: MWG +BSN

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			This floor slab has been covered with carpet
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 11/13/2017

Personnel: BSN & MWG

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

VERINA Consulting Group, LLC

MONTHLY CAP INSPECTION CHECKLIST

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date: 12/11/2017

Personnel: BSN + CF

Item No.	Description	Yes	No	Actions	Comments
1	1978 Building Addition floor slab in good condition?	X			
2	1984 Building Addition floor slab in good condition?	X			
3	Area 1 (front employee entrance) landscape cover intact?	X			
4	Area 2 (driveway at north catch basin CB-2044) asphalt surface in good condition?	X			
5	Area 3 (transformer pad location) vegetative cover intact?	X			
6	Area 4 (drainage ditch along CR 181) in good condition?	X			
7	Area 5 (drainage ditch along CR 181) in good condition?	X			
8	Area 6 (drainage ditch along CR 181) in good condition?	X			
9	Area 7 (parking lot at southeast loading dock) asphalt surface in good condition?	X			
10	ASD system operational?	X			
11	ASD system vacuum readings normal?	X			
12	ASD system components in good condition?	X			

Appendix F

VERINA Consulting Group, LLC

ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) INSPECTION LOG

Former Dover Electronics Site, Kirkwood, NY (5101.0002)

Date	Time	System On? (Y/N)	Vaccum Reading (inches water)								Comments
			ASD-1	ASD-2	ASD-3	ASD-4	ASD-5	ASD-6	ASD-7	ASD-8	
1/9/2017	15:30	Y	1.00	0.88	1.00	1.25	1.00	-	2.75	4.38	ASD-6 was not accessible, values as shown on U-tubes
2/20/2017	13:15	Y	1.13	1.13	1.13	1.38	1.00	-	2.88	4.25	ASD-6 was not accessible, values as shown on U-tubes, After remodel flathead screwdriver is needed for ASD-5
3/22/2017	10:40	Y	1.13	1.13	1.00	1.13	1.00	-	2.75	4.25	ASD-6 was not accessible, values as shown on U-tubes
4/10/2017	11:50	Y	1.13	1.00	1.13	1.13	1.00	-	2.75	4.13	ASD-6 was not accessible, values as shown on U-tubes
5/9/2017	9:00	Y	1.00	1.00	1.25	1.38	1.13	-	2.62	4.13	ASD-6 was not accessible, values as shown on U-tubes
6/19/2017	12:00	Y	1.13	1.13	1.38	1.38	1.25	-	2.75	4.00	ASD-6 was not accessible, values as shown on U-tubes
7/10/2017	15:00	Y	1.13	1.13	1.25	1.25	1.13	-	2.88	4.25	ASD-6 was not accessible, values as shown on U-tubes
8/22/2017	10:40	Y	1.13	1.00	1.25	1.25	1.13	-	2.75	4.00	ASD-6 was not accessible, values as shown on U-tubes
9/21/2017	8:00	Y	1.25	1.13	1.25	1.13	1.25	-	3.88	4.13	ASD-6 was not accessible, values as shown on U-tubes
10/25/2017	8:10	Y	1.13	1.13	1.25	1.38	1.13	-	2.50	4.13	ASD-6 was not accessible, values as shown on U-tubes
11/13/2017	13:15	Y	1.00	1.13	1.13	1.25	1.00	-	2.50	4.13	ASD-6 was not accessible, values as shown on U-tubes
12/11/2017	12:45	Y	1.25	1.13	1.00	1.13	1.00	-	2.62	4.38	ASD-6 was not accessible, values as shown on U-tubes

NOTES:

Appendix G

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2425 New Holland Pike, Lancaster, PA 17601 | 717-656-2300 | Fax: 717-656-2681 | www.LancasterLabs.com

NYSDEC ASP Category B Data Package

Prepared for:

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

Project: Dover - Kirkwood
Air Samples
Collected on 03/22/17

SDG# VER01

GROUP	SAMPLE NUMBERS
1781825	8906225-8906232

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date:** **04/24/2017**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Lyssa Longenecker at (717) 556-7321.

2425 New Holland Pike, Lancaster, PA 17601 | 717-656-2300 | Fax: 717-656-2681 | www.LancasterLabs.com

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Sample Reference List for SDG Number VER01
with a Data Package Type of NYSDEC B

41702 - Verina Consulting Group, LLC

Project: Dover - Kirkwood

Lab Sample Number	Client Sample ID	Collection Date	Date Received
8906225	Cafeteria	03/22/2017 08:43	03/28/2017 17:05
8906226	Office Area #1	03/22/2017 08:42	03/28/2017 17:05
8906227	Office Area #2	03/22/2017 08:46	03/28/2017 17:05
8906228	Hallway	03/22/2017 08:48	03/28/2017 17:05
8906229	Outdoor	03/22/2017 08:54	03/28/2017 17:05
8906230	A/C Area	03/22/2017 08:44	03/28/2017 17:05
8906231	Computer Servers	03/22/2017 08:44	03/28/2017 17:05
8906232	Electric Area	03/22/2017 08:41	03/28/2017 17:05

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

05298 TO 15 VOA Ext. List

Air samples are collected in passivated SUMMA canisters. A volume of the air is cryogenically trapped and desorbed into a gas chromatograph equipped with a capillary column and interfaced directly to a mass selective (MS) detector.

Reference: EPA Method TO-15, "Methods for the Determination of Toxic Organic Compounds in Air," 1999

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

Report Date: April 07, 2017

Project: Dover - Kirkwood

Submittal Date: 03/28/2017
Group Number: 1781825
SDG: VER01
PO Number: 5101.0002
State of Sample Origin: NY

Client Sample Description	Lancaster Labs (LL) #
Cafeteria Air	8906225
Office Area #1 Air	8906226
Office Area #2 Air	8906227
Hallway Air	8906228
Outdoor Air	8906229
A/C Area Air	8906230
Computer Servers Air	8906231
Electric Area Air	8906232

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Verina Consulting Group, LLC Attn: Sarah Tufaro

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Respectfully Submitted,

Lyssa M. Longenecker

Lyssa M. Longenecker
Specialist

(717) 556-7321

Sample Description: Cafeteria Air
COC: SummaCan# 1261
Dover - Kirkwood

LL Sample # AQ 8906225
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:43 by BN
through 03/22/2017 16:35
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKCAF SDG#: VER01-01

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	34		1.2	14		0.50	1
05298	Benzene	71-43-2	N.D.		0.64	N.D.		0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	29		1.5	9.8		0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	3.2	J	0.99	0.64	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	5.3	J	2.0	1.3	J	0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	2.7	J	0.93	0.57	J	0.20	1
05298	Pentane	109-66-0	0.84	J	0.59	0.28	J	0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

Sample Description: Cafeteria Air
COC: SummaCan# 1261
Dover - Kirkwood

LL Sample # AQ 8906225
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:43 by BN
through 03/22/2017 16:35
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKCAF SDG#: VER01-01

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	1.6	J	1.4	0.23	J	0.20	1
05298	Toluene	108-88-3	1.0	J	0.75	0.27	J	0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	2.9	J	1.1	0.51	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	0.88	J	0.87	0.20	J	0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/06/2017 22:22	Jacob E Bailey	1

Sample Description: Office Area #1 Air
COC: SummaCan# 1377
Dover - Kirkwood

LL Sample # AQ 8906226
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:42 by BN
through 03/22/2017 16:35
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKOA1 SDG#: VER01-02

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	33		1.2	14		0.50	1
05298	Benzene	71-43-2	N.D.		0.64	N.D.		0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	5.0	J	1.5	1.7	J	0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	3.6	J	0.99	0.72	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	N.D.		2.0	N.D.		0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	N.D.		0.93	N.D.		0.20	1
05298	Pentane	109-66-0	0.68	J	0.59	0.23	J	0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

Sample Description: Office Area #1 Air
COC: SummaCan# 1377
Dover - Kirkwood

LL Sample # AQ 8906226
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:42 by BN
through 03/22/2017 16:35
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKOA1 SDG#: VER01-02

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	1.7	J	1.4	0.25	J	0.20	1
05298	Toluene	108-88-3	N.D.		0.75	N.D.		0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	3.0	J	1.1	0.53	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	N.D.		0.87	N.D.		0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/06/2017 23:06	Jacob E Bailey	1

Sample Description: Office Area #2 Air
COC: SummaCan# 1406
Dover - Kirkwood

LL Sample # AQ 8906227
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:46 by BN
through 03/22/2017 16:40
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKOA2 SDG#: VER01-03

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	40		1.2	17		0.50	1
05298	Benzene	71-43-2	0.66	J	0.64	0.21	J	0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	5.8	J	1.5	2.0	J	0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	3.4	J	0.99	0.68	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	N.D.		2.0	N.D.		0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	N.D.		0.93	N.D.		0.20	1
05298	Pentane	109-66-0	0.77	J	0.59	0.26	J	0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

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Analysis Report

Sample Description: Office Area #2 Air
COC: SummaCan# 1406
Dover - Kirkwood

LL Sample # AQ 8906227
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:46 by BN
through 03/22/2017 16:40
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKOA2 SDG#: VER01-03

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	N.D.		1.4	N.D.		0.20	1
05298	Toluene	108-88-3	0.89	J	0.75	0.24	J	0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	3.0	J	1.1	0.54	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	N.D.		0.87	N.D.		0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/06/2017 23:50	Jacob E Bailey	1

Sample Description: Hallway Air
COC: SummaCan# 1426
Dover - Kirkwood

LL Sample # AQ 8906228
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:48 by BN
through 03/22/2017 15:20
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKHAL SDG#: VER01-04

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	49		1.2	21		0.50	1
05298	Benzene	71-43-2	N.D.		0.64	N.D.		0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	14		1.5	4.8		0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	4.2	J	0.99	0.84	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	3.6	J	2.0	0.89	J	0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	2.0	J	0.93	0.43	J	0.20	1
05298	Pentane	109-66-0	N.D.		0.59	N.D.		0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

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Analysis Report

Sample Description: Hallway Air
COC: SummaCan# 1426
Dover - Kirkwood

LL Sample # AQ 8906228
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:48 by BN
through 03/22/2017 15:20
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKHAL SDG#: VER01-04

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	N.D.		1.4	N.D.		0.20	1
05298	Toluene	108-88-3	0.99	J	0.75	0.26	J	0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	3.2	J	1.1	0.57	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	N.D.		0.87	N.D.		0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/07/2017 00:34	Jacob E Bailey	1

Sample Description: Outdoor Air
COC: SummaCan# 1445
Dover - Kirkwood

LL Sample # AQ 8906229
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:54 by BN
through 03/22/2017 16:44
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKOUT SDG#: VER01-05

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	24		1.2	10		0.50	1
05298	Benzene	71-43-2	N.D.		0.64	N.D.		0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	7.2		1.5	2.5		0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	3.1	J	0.99	0.62	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	N.D.		2.0	N.D.		0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	N.D.		0.93	N.D.		0.20	1
05298	Pentane	109-66-0	0.86	J	0.59	0.29	J	0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

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Analysis Report

Sample Description: Outdoor Air
COC: SummaCan# 1445
Dover - Kirkwood

LL Sample # AQ 8906229
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:54 by BN
through 03/22/2017 16:44
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKOUT SDG#: VER01-05

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	N.D.		1.4	N.D.		0.20	1
05298	Toluene	108-88-3	N.D.		0.75	N.D.		0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	1.5	J	1.1	0.27	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	N.D.		0.87	N.D.		0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/07/2017 01:18	Jacob E Bailey	1

Sample Description: A/C Area Air
COC: SummaCan# 1467
Dover - Kirkwood

LL Sample # AQ 8906230
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:44 by BN
through 03/22/2017 16:37
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKACA SDG#: VER01-06

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	34		1.2	14		0.50	1
05298	Benzene	71-43-2	N.D.		0.64	N.D.		0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	6.7		1.5	2.3		0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	3.7	J	0.99	0.76	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	N.D.		2.0	N.D.		0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	1.4	J	0.93	0.29	J	0.20	1
05298	Pentane	109-66-0	0.72	J	0.59	0.25	J	0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

Sample Description: A/C Area Air
COC: SummaCan# 1467
Dover - Kirkwood

LL Sample # AQ 8906230
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:44 by BN
through 03/22/2017 16:37
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKACA SDG#: VER01-06

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	11		1.4	1.6		0.20	1
05298	Toluene	108-88-3	1.3	J	0.75	0.34	J	0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	2.5	J	1.1	0.44	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	N.D.		0.87	N.D.		0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/07/2017 02:02	Jacob E Bailey	1

Sample Description: Computer Servers Air
COC: SummaCan# 1522
Dover - Kirkwood

LL Sample # AQ 8906231
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:44 by BN
through 03/22/2017 16:36
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKCPS SDG#: VER01-07

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	31		1.2	13		0.50	1
05298	Benzene	71-43-2	N.D.		0.64	N.D.		0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	6.2		1.5	2.1		0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	3.8	J	0.99	0.77	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	N.D.		2.0	N.D.		0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	1.1	J	0.93	0.24	J	0.20	1
05298	Pentane	109-66-0	0.73	J	0.59	0.25	J	0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

Sample Description: Computer Servers Air
COC: SummaCan# 1522
Dover - Kirkwood

LL Sample # AQ 8906231
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:44 by BN
through 03/22/2017 16:36
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKCPS SDG#: VER01-07

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	12		1.4	1.8		0.20	1
05298	Toluene	108-88-3	1.4	J	0.75	0.36	J	0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	2.4	J	1.1	0.43	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	N.D.		0.87	N.D.		0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/07/2017 02:46	Jacob E Bailey	1

Sample Description: Electric Area Air
COC: SummaCan# 1392
Dover - Kirkwood

LL Sample # AQ 8906232
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:41 by BN
through 03/22/2017 16:33
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKELA SDG#: VER01-08

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Acetone	67-64-1	47		1.2	20		0.50	1
05298	Benzene	71-43-2	N.D.		0.64	N.D.		0.20	1
05298	Bromobenzene	108-86-1	N.D.		1.3	N.D.		0.20	1
05298	Bromodichloromethane	75-27-4	N.D.		1.3	N.D.		0.20	1
05298	Bromoform	75-25-2	N.D.		2.1	N.D.		0.20	1
05298	Bromomethane	74-83-9	N.D.		0.78	N.D.		0.20	1
05298	1,3-Butadiene	106-99-0	N.D.		0.88	N.D.		0.40	1
05298	2-Butanone	78-93-3	11		1.5	3.6		0.50	1
05298	Carbon Disulfide	75-15-0	N.D.		1.6	N.D.		0.50	1
05298	Carbon Tetrachloride	56-23-5	N.D.		1.3	N.D.		0.20	1
05298	Chlorobenzene	108-90-7	N.D.		0.92	N.D.		0.20	1
05298	Chlorodifluoromethane	75-45-6	N.D.		0.71	N.D.		0.20	1
05298	Chloroethane	75-00-3	N.D.		0.53	N.D.		0.20	1
05298	Chloroform	67-66-3	N.D.		0.98	N.D.		0.20	1
05298	Chloromethane	74-87-3	N.D.		0.41	N.D.		0.20	1
05298	3-Chloropropene	107-05-1	N.D.		0.63	N.D.		0.20	1
05298	Cumene	98-82-8	N.D.		0.98	N.D.		0.20	1
05298	Dibromochloromethane	124-48-1	N.D.		1.7	N.D.		0.20	1
05298	1,2-Dibromoethane	106-93-4	N.D.		1.5	N.D.		0.20	1
05298	Dibromomethane	74-95-3	N.D.		1.4	N.D.		0.20	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		1.2	N.D.		0.20	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		1.2	N.D.		0.20	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		1.2	N.D.		0.20	1
05298	Dichlorodifluoromethane	75-71-8	4.1	J	0.99	0.83	J	0.20	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.81	N.D.		0.20	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.81	N.D.		0.20	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.79	N.D.		0.20	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.79	N.D.		0.20	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.79	N.D.		0.20	1
05298	Dichlorofluoromethane	75-43-4	N.D.		0.84	N.D.		0.20	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.92	N.D.		0.20	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.91	N.D.		0.20	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.91	N.D.		0.20	1
05298	Ethylbenzene	100-41-4	N.D.		0.87	N.D.		0.20	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.98	N.D.		0.20	1
05298	Freon 113	76-13-1	N.D.		3.8	N.D.		0.50	1
05298	Freon 114	76-14-2	N.D.		1.4	N.D.		0.20	1
05298	Heptane	142-82-5	N.D.		0.82	N.D.		0.20	1
05298	Hexachloroethane	67-72-1	N.D.		1.9	N.D.		0.20	1
05298	Hexane	110-54-3	N.D.		0.70	N.D.		0.20	1
05298	2-Hexanone	591-78-6	2.3	J	2.0	0.55	J	0.50	1
05298	Isooctane	540-84-1	N.D.		0.93	N.D.		0.20	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.72	N.D.		0.20	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		2.0	N.D.		0.50	1
05298	Methylene Chloride	75-09-2	N.D.		0.69	N.D.		0.20	1
05298	Octane	111-65-9	N.D.		0.93	N.D.		0.20	1
05298	Pentane	109-66-0	N.D.		0.59	N.D.		0.20	1
05298	Styrene	100-42-5	N.D.		0.85	N.D.		0.20	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.4	N.D.		0.20	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.4	N.D.		0.20	1

Sample Description: Electric Area Air
COC: SummaCan# 1392
Dover - Kirkwood

LL Sample # AQ 8906232
LL Group # 1781825
Account # 41702

Project Name: Dover - Kirkwood

Collected: 03/22/2017 08:41 by BN
through 03/22/2017 16:33
Submitted: 03/28/2017 17:05
Reported: 04/07/2017 14:47

Verina Consulting Group, LLC
1011 US Highway 22
Suite 302
Bridgewater NJ 08807

DKELA SDG#: VER01-08

CAT No.	Analysis Name	CAS Number	Final Result		MDL	Final Result		MDL	DF
Volatiles in Air EPA TO-15			ug/m3		ug/m3	ppb(v)		ppb(v)	
05298	Tetrachloroethene	127-18-4	12		1.4	1.8		0.20	1
05298	Toluene	108-88-3	1.4	J	0.75	0.37	J	0.20	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.		1.1	N.D.		0.20	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.		1.1	N.D.		0.20	1
05298	Trichloroethene	79-01-6	N.D.		1.1	N.D.		0.20	1
05298	Trichlorofluoromethane	75-69-4	2.8	J	1.1	0.49	J	0.20	1
05298	1,2,3-Trichloropropane	96-18-4	N.D.		1.2	N.D.		0.20	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.98	N.D.		0.20	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.98	N.D.		0.20	1
05298	Vinyl Chloride	75-01-4	N.D.		0.51	N.D.		0.20	1
05298	m/p-Xylene	179601-23-1	N.D.		0.87	N.D.		0.20	1
05298	o-Xylene	95-47-6	N.D.		0.87	N.D.		0.20	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1709630AA	04/07/2017 03:30	Jacob E Bailey	1

Quality Control Summary

Client Name: Verina Consulting Group, LLC Group Number: 1781825
Reported: 04/07/2017 14:47

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/m3	MDL ug/m3	Result ppb(v)	MDL ppb(v)
Batch number: E1709630AA	Sample number(s): 8906225-8906232			
Acetone	N.D.	1.2	N.D.	0.50
Benzene	N.D.	0.64	N.D.	0.20
Bromobenzene	N.D.	1.3	N.D.	0.20
Bromodichloromethane	N.D.	1.3	N.D.	0.20
Bromoform	N.D.	2.1	N.D.	0.20
Bromomethane	N.D.	1.9	N.D.	0.50
1,3-Butadiene	N.D.	0.88	N.D.	0.40
2-Butanone	N.D.	1.5	N.D.	0.50
Carbon Disulfide	N.D.	1.6	N.D.	0.50
Carbon Tetrachloride	N.D.	1.3	N.D.	0.20
Chlorobenzene	N.D.	0.92	N.D.	0.20
Chlorodifluoromethane	N.D.	0.71	N.D.	0.20
Chloroethane	N.D.	0.53	N.D.	0.20
Chloroform	N.D.	0.98	N.D.	0.20
Chloromethane	N.D.	0.41	N.D.	0.20
3-Chloropropene	N.D.	0.63	N.D.	0.20
Cumene	N.D.	0.98	N.D.	0.20
Dibromochloromethane	N.D.	1.7	N.D.	0.20
1,2-Dibromoethane	N.D.	1.5	N.D.	0.20
Dibromomethane	N.D.	1.4	N.D.	0.20
1,2-Dichlorobenzene	N.D.	1.2	N.D.	0.20
1,3-Dichlorobenzene	N.D.	1.2	N.D.	0.20
1,4-Dichlorobenzene	N.D.	1.2	N.D.	0.20
Dichlorodifluoromethane	N.D.	0.99	N.D.	0.20
1,1-Dichloroethane	N.D.	0.81	N.D.	0.20
1,2-Dichloroethane	N.D.	0.81	N.D.	0.20
1,1-Dichloroethene	N.D.	0.79	N.D.	0.20
cis-1,2-Dichloroethene	N.D.	0.79	N.D.	0.20
trans-1,2-Dichloroethene	N.D.	0.79	N.D.	0.20
Dichlorofluoromethane	N.D.	0.84	N.D.	0.20
1,2-Dichloropropane	N.D.	0.92	N.D.	0.20
cis-1,3-Dichloropropene	N.D.	0.91	N.D.	0.20
trans-1,3-Dichloropropene	N.D.	0.91	N.D.	0.20
Ethylbenzene	N.D.	0.87	N.D.	0.20
4-Ethyltoluene	N.D.	0.98	N.D.	0.20
Freon 113	N.D.	3.8	N.D.	0.50
Freon 114	N.D.	1.4	N.D.	0.20
Heptane	N.D.	2.0	N.D.	0.50
Hexachloroethane	N.D.	4.8	N.D.	0.50
Hexane	N.D.	0.70	N.D.	0.20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Verina Consulting Group, LLC Group Number: 1781825
Reported: 04/07/2017 14:47

Method Blank (continued)

Analysis Name	Result ug/m3	MDL ug/m3	Result ppb(v)	MDL ppb(v)
2-Hexanone	N.D.	2.0	N.D.	0.50
Isooctane	N.D.	0.93	N.D.	0.20
Methyl t-Butyl Ether	N.D.	0.72	N.D.	0.20
4-Methyl-2-pentanone	N.D.	2.0	N.D.	0.50
Methylene Chloride	N.D.	0.69	N.D.	0.20
Octane	N.D.	2.3	N.D.	0.50
Pentane	N.D.	1.5	N.D.	0.50
Styrene	N.D.	0.85	N.D.	0.20
1,1,1,2-Tetrachloroethane	N.D.	1.4	N.D.	0.20
1,1,2,2-Tetrachloroethane	N.D.	1.4	N.D.	0.20
Tetrachloroethene	N.D.	1.4	N.D.	0.20
Toluene	N.D.	0.75	N.D.	0.20
1,1,1-Trichloroethane	N.D.	1.1	N.D.	0.20
1,1,2-Trichloroethane	N.D.	1.1	N.D.	0.20
Trichloroethene	N.D.	1.1	N.D.	0.20
Trichlorofluoromethane	N.D.	1.1	N.D.	0.20
1,2,3-Trichloropropane	N.D.	1.2	N.D.	0.20
1,2,4-Trimethylbenzene	N.D.	0.98	N.D.	0.20
1,3,5-Trimethylbenzene	N.D.	0.98	N.D.	0.20
Vinyl Chloride	N.D.	0.51	N.D.	0.20
m/p-Xylene	N.D.	0.87	N.D.	0.20
o-Xylene	N.D.	0.87	N.D.	0.20

LCS/LCSD

Analysis Name	LCS Spike Added ug/m3	LCS Conc ug/m3	LCSD Spike Added ug/m3	LCSD Conc ug/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E1709630AA	Sample number(s): 8906225-8906232								
Acetone	23.76	28.64	23.76	28.18	121	119	71-136	2	25
Benzene	31.95	35.02	31.95	35.37	110	111	76-123	1	25
Bromobenzene	64.22	68.83	64.22	71.01	107	111	74-118	3	25
Bromodichloromethane	67.01	75.11	67.01	76.27	112	114	75-134	2	25
Bromoform	103.37	116.63	103.37	121.86	113	118	69-128	4	25
Bromomethane	38.83	45.47	38.83	44	117	113	71-133	3	25
1,3-Butadiene	22.12	23.51	22.12	22.75	106	103	72-122	3	25
2-Butanone	29.49	34.6	29.49	33.92	117	115	75-126	2	25
Carbon Disulfide	31.14	34.41	31.14	33.93	110	109	72-128	1	25
Carbon Tetrachloride	62.91	73.82	62.91	72.45	117	115	72-127	2	25
Chlorobenzene	46.04	48.46	46.04	49.93	105	108	76-117	3	25
Chlorodifluoromethane	35.37	42.38	35.37	40.56	120	115	70-138	4	25
Chloroethane	26.38	29.98	26.38	29.37	114	111	76-129	2	25
Chloroform	48.83	55.28	48.83	54.63	113	112	75-127	1	25
Chloromethane	20.65	21.5	20.65	20.88	104	101	65-140	3	25
3-Chloropropene	31.3	42.02	31.3	42.22	134	135	67-141	0	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Verina Consulting Group, LLC
Reported: 04/07/2017 14:47

Group Number: 1781825

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/m3	LCS Conc ug/m3	LCSD Spike Added ug/m3	LCSD Conc ug/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cumene	49.16	53	49.16	54.93	108	112	74-121	4	25
Dibromochloromethane	85.19	97.66	85.19	99.56	115	117	74-131	2	25
1,2-Dibromoethane	76.83	85.3	76.83	87.78	111	114	73-121	3	25
Dibromomethane	71.1	80.2	71.1	81.34	113	114	76-124	1	25
1,2-Dichlorobenzene	60.12	66.51	60.12	68.39	111	114	71-126	3	25
1,3-Dichlorobenzene	60.12	65.81	60.12	67.76	109	113	75-129	3	25
1,4-Dichlorobenzene	60.12	65.67	60.12	67.24	109	112	74-123	2	25
Dichlorodifluoromethane	49.45	58.4	49.45	57.35	118	116	74-133	2	25
1,1-Dichloroethane	40.47	45.85	40.47	44.7	113	110	74-129	3	25
1,2-Dichloroethane	40.47	47.2	40.47	47.81	117	118	72-138	1	25
1,1-Dichloroethene	39.65	46.81	39.65	45.36	118	114	70-129	3	25
cis-1,2-Dichloroethene	39.65	44.93	39.65	44.31	113	112	76-126	1	25
trans-1,2-Dichloroethene	39.65	44.74	39.65	44.46	113	112	77-128	1	25
Dichlorofluoromethane	42.09	51.14	42.09	49.89	121	119	75-137	2	25
1,2-Dichloropropane	46.21	49.88	46.21	49.76	108	108	75-127	0	25
cis-1,3-Dichloropropene	45.39	49.23	45.39	50.29	108	111	51-120	2	25
trans-1,3-Dichloropropene	45.39	49.14	45.39	51.25	108	113	72-119	4	25
Ethylbenzene	43.42	48.07	43.42	49.73	111	115	77-117	3	25
4-Ethyltoluene	49.16	52.68	49.16	55.98	107	114	73-130	6	25
Freon 113	76.64	85.17	76.64	84.61	111	110	66-119	1	25
Freon 114	69.91	80	69.91	79.19	114	113	66-126	1	25
Heptane	40.98	44.63	40.98	43.57	109	106	74-122	2	25
Hexachloroethane	96.83	120.18	96.83	122.33	124	126	59-135	2	25
Hexane	35.25	38.76	35.25	38.19	110	108	70-118	1	25
2-Hexanone	40.97	45.01	40.97	45.19	110	110	63-144	0	25
Isooctane	46.72	51.02	46.72	51.39	109	110	74-127	1	25
Methyl t-Butyl Ether	36.05	40.23	36.05	39.32	112	109	71-119	2	25
4-Methyl-2-pentanone	40.97	44.93	40.97	45.64	110	111	68-133	2	25
Methylene Chloride	34.74	44.47	34.74	43.34	128	125	69-128	3	25
Octane	46.72	49.33	46.72	51.65	106	111	73-122	5	25
Pentane	29.51	31.4	29.51	31.07	106	105	69-125	1	25
Styrene	42.6	47.68	42.6	48.27	112	113	76-127	1	25
1,1,1,2-Tetrachloroethane	68.65	78.01	68.65	80.62	114	117	73-124	3	25
1,1,2,2-Tetrachloroethane	68.65	69.44	68.65	71.47	101	104	72-133	3	25
Tetrachloroethene	67.82	77.41	67.82	79.07	114	117	68-123	2	25
Toluene	37.69	41	37.69	42.47	109	113	78-119	4	25
1,1,1-Trichloroethane	54.56	62.76	54.56	61.76	115	113	74-122	2	25
1,1,2-Trichloroethane	54.56	59.88	54.56	61.91	110	113	76-127	3	25
Trichloroethene	53.74	64.68	53.74	63.36	120*	118	76-118	2	25
Trichlorofluoromethane	56.18	65.79	56.18	64.42	117	115	73-132	2	25
1,2,3-Trichloropropane	60.3	65.13	60.3	67.68	108	112	71-127	4	25
1,2,4-Trimethylbenzene	49.16	53.86	49.16	55.15	110	112	70-138	2	25
1,3,5-Trimethylbenzene	49.16	52.97	49.16	53.45	108	109	72-130	1	25
Vinyl Chloride	25.56	29.79	25.56	28.82	117	113	75-130	3	25
m/p-Xylene	43.42	50.41	43.42	51.26	116	118	78-119	2	25
o-Xylene	43.42	49.08	43.42	50.09	113	115	78-121	2	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Verina Consulting Group, LLC Group Number: 1781825
Reported: 04/07/2017 14:47

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Summa Canister Field Test Data/Chain of Custody

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Acct. # 41702 Group # 178825 For Eurofins Lancaster Laboratories Environmental use only Sample # 806225-32 Bottle Order (SCR) # 203249

Client Information

Client: Verina Consulting Group
Account #:
Project Name/#: Dover - Kirkwood
Project Manager: Sarah Tufaro
P.O. #: 5101.0002
Sampler: Brian Nale
Quote #:
Name of state where samples were collected: New York

Turnaround Time Requested (TAT) (circle one)

(Standard) Rush (specify) _____

Data Package Required? (Yes) No

EDD Required? (Yes) No

	Temperature (F)		Pressure ("Hg)	
	Start	Stop	Start	Stop
Ambient	15.1	18.0	30.1	30.3
Maximum	18.0		30.3	
Minimum	15.1		30.1	

Analyses Requested

EPA TO - 15 | EPA 18 | ☐ MTBE | ☐ BTEX | EPA 25 (select range below) | Helium as tracer | O2/CO2 | Library Search

Sample Identification	Start Date/Time (24-hour clock)	Stop Date/Time (24-hour clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Reg. ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)	TO-15	18	MTBE	BTEX	25	He	O2/CO2	Lib
~~Office Area #2~~ Cafeteria	~~8:46~~ 8:48	~~16:40~~ 16:55	~~29~~ 30	~~4~~ 6	70	70	339291	1261	6	10.6	X							
Office Area #1	8:42	16:35	29	5	70	70	704000	1377	6	10.5	X							
~~Cafeteria~~ Office Area #2	~~8:43~~ 8:46	~~16:35~~ 16:40	30 29	~~6~~ 4	70	70	958101	1406	6	10.4	X							
Hallway	8:48	15:20	30	2	70	70	958082	1426	6	10.3	X							
							900141	1176	6	10.6								
Outdoor	8:54	16:44	29 1/2	5	20	20	484610	1445	6	10.3	X							
A/C Area	8:44	16:37	30	5	70	70	309005	1467	6	10.3	X							
Computer Servers	8:44	16:36	29	6	70	70	958112	1522	6	10.4	X							
Electric Area	8:41	16:33	29	4	70	70	675036	1352	6	10.5	X							

Instructions/QC Requirements & Comments

Canister 1261 belongs to Cafeteria sample
canister 1406 belongs to office area #2

1310

EPA 25 (check one) ☐ C1 - C4 ☐ C2 - C10 ☐ C1 - C10 ☐ C4 - C10 (GRO) ☐ C2 - C4

Canisters Shipped by:	Date/Time:	Canisters Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time:
16:00	3/16/17		3/28/17 1310		3/28/17 1705		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time: 3-28-17

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Sample Administration Receipt Documentation Log

Doc Log ID: 179193

Group Number(s): 178625

Client: Verina Consulting Group

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	03/28/2017 17:05
Number of Packages:	1	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	Yes
Missing Samples:	No	Air Quality Flow Controllers Present:	Yes
Extra Samples:	No	Flow Controller Quantity:	9
Discrepancy in Container Qty on COC:	No	Air Quality Returns:	Yes
		Summa Canisters:	1176

Unpacked by Melvin Sanchez (8943) at 17:21 on 03/28/2017

2425 New Holland Pike
Lancaster, PA 17601-5994
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Volatile Organics in Air by GC/MS Data

Case Narrative/Conformance Summary

Volatile Organics in Air by GC/MS

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Case Narrative/Conformance Summary

CLIENT: Verina Consulting Group, LLC
SDG: VER01

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Sample #	Client ID	DF	Comments
8906225	Cafeteria	1	
8906226	Office Area #1	1	
8906227	Office Area #2	1	
8906228	Hallway	1	
8906229	Outdoor	1	
8906230	A/C Area	1	
8906231	Computer Servers	1	
8906232	Electric Area	1	

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

LCS/LCSD

(Sample number(s): 8906225-8906232: Analysis: 05298)
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

Batch#: E1709630AA (Sample number(s): 8906225-8906232)
The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Trichloroethene

Case Narrative/Conformance Summary

CLIENT: Verina Consulting Group, LLC
SDG: VER01

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Sample Duplicate

(Sample number(s): 8906232: Analysis: 05298)
Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification matrix QC results.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

LOQ = Limit of Quantitation	LCS = Lab Control Sample
MDL = Method Detection Limit	LCSD = Lab Control Sample Duplicate
ND = Not Detected	RE = Repreparation/Reanalysis
J = Estimated Value	* = Out of Specification
E= out of calibration range	

1. Relative Response Factor (RRF)

$$RRF = \frac{AX}{Ais} \quad \frac{Cis}{Cx}$$

Where:

Ax = Area of the characteristic ion for the compound to be measured
Ais = Area of the characteristic ion for the specific internal standard to be measured
Cis = Concentration of the internal standard
Cx = Concentration of the compound to be measured

2. % Relative Standard Deviation (%RSD)

$$\%RSD = \frac{standard\ deviation}{Mean} \times 100$$

3. % Difference

$$\%D = \frac{RRFc - RRFi}{RRFi} \times 100$$

Where:

RRFc = Relative response factor from the continuing calibration standard
RRFi = Mean relative response factor from the initial calibration

4. Concentration

$$X_a = \frac{(A_x)(I_s)(Df)}{(A_{is})(RRF)}$$

Where:

X_a = target compound concentration, ppb(v)

A_x = Area of the quantitation ion for the target compound to be measured

A_{is} = Area of quantitation ion for the specific internal standard

I_s = Concentration of internal standard, ppb(v)

RRF = Average relative response factor from initial or continuing calibration

Df = Dilution factor

5. % Recovery

$$\%Rec = \frac{SSR - SR}{SA} \times 100$$

Where:

SSR = Spiked sample result
SR = Sample result
SA = Spike added

Quality Control and Calibration Summary Forms

Volatile Organics in Air by GC/MS

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Quality Control Reference List
Volatiles in Air

CLIENT: Verina Consulting Group, LLC
SDG: VER01

Fraction: Volatile Organics in Air by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
TO 15 VOA Ext. List	E1709630AA	VBLKE55	04/06/2017 14:01:00
		LCSE55	04/06/2017 14:44:00
		LCSDE55	04/06/2017 15:18:00
		8906225	04/06/2017 22:22:00
		8906226	04/06/2017 23:06:00
		8906227	04/06/2017 23:50:00
		8906228	04/07/2017 00:34:00
		8906229	04/07/2017 01:18:00
		8906230	04/07/2017 02:02:00
		8906231	04/07/2017 02:46:00
		8906232	04/07/2017 03:30:00
		8906232 DUP	04/07/2017 04:14:00

Quality Control Summary
Method Blank
Volatiles in Air
SDG: VER01
Matrix: AIR

Fraction: Volatile Organics in Air by GC/MS

E1709630AA / VBLKE55 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dichlorodifluoromethane	04/06/17	N.D.	ug/m3	0.99	4.9
Chlorodifluoromethane	04/06/17	N.D.	ug/m3	0.71	3.5
Chloromethane	04/06/17	N.D.	ug/m3	0.41	2.1
Freon 114	04/06/17	N.D.	ug/m3	1.4	7.0
Vinyl Chloride	04/06/17	N.D.	ug/m3	0.51	2.6
1,3-Butadiene	04/06/17	N.D.	ug/m3	0.88	4.4
Bromomethane	04/06/17	N.D.	ug/m3	1.9	3.9
Chloroethane	04/06/17	N.D.	ug/m3	0.53	2.6
Dichlorofluoromethane	04/06/17	N.D.	ug/m3	0.84	4.2
Trichlorofluoromethane	04/06/17	N.D.	ug/m3	1.1	5.6
Pentane	04/06/17	N.D.	ug/m3	1.5	3.0
1,1-Dichloroethene	04/06/17	N.D.	ug/m3	0.79	4.0
Freon 113	04/06/17	N.D.	ug/m3	3.8	15
Acetone	04/06/17	N.D.	ug/m3	1.2	4.8
Carbon Disulfide	04/06/17	N.D.	ug/m3	1.6	3.1
3-Chloropropene	04/06/17	N.D.	ug/m3	0.63	3.1
Methylene Chloride	04/06/17	N.D.	ug/m3	0.69	3.5
trans-1,2-Dichloroethene	04/06/17	N.D.	ug/m3	0.79	4.0
Methyl t-Butyl Ether	04/06/17	N.D.	ug/m3	0.72	3.6
Hexane	04/06/17	N.D.	ug/m3	0.70	3.5
1,1-Dichloroethane	04/06/17	N.D.	ug/m3	0.81	4.0
cis-1,2-Dichloroethene	04/06/17	N.D.	ug/m3	0.79	4.0
2-Butanone	04/06/17	N.D.	ug/m3	1.5	5.9
Chloroform	04/06/17	N.D.	ug/m3	0.98	4.9
1,1,1-Trichloroethane	04/06/17	N.D.	ug/m3	1.1	5.5
Carbon Tetrachloride	04/06/17	N.D.	ug/m3	1.3	6.3
1,2-Dichloroethane	04/06/17	N.D.	ug/m3	0.81	4.0
Benzene	04/06/17	N.D.	ug/m3	0.64	3.2
Isooctane	04/06/17	N.D.	ug/m3	0.93	4.7
Heptane	04/06/17	N.D.	ug/m3	2.0	4.1
Trichloroethene	04/06/17	N.D.	ug/m3	1.1	5.4
1,2-Dichloropropane	04/06/17	N.D.	ug/m3	0.92	4.6
Dibromomethane	04/06/17	N.D.	ug/m3	1.4	7.1
Bromodichloromethane	04/06/17	N.D.	ug/m3	1.3	6.7
cis-1,3-Dichloropropene	04/06/17	N.D.	ug/m3	0.91	4.5
4-Methyl-2-pentanone	04/06/17	N.D.	ug/m3	2.0	8.2
Toluene	04/06/17	N.D.	ug/m3	0.75	3.8
Octane	04/06/17	N.D.	ug/m3	2.3	4.7
trans-1,3-Dichloropropene	04/06/17	N.D.	ug/m3	0.91	4.5
1,1,2-Trichloroethane	04/06/17	N.D.	ug/m3	1.1	5.5
Tetrachloroethene	04/06/17	N.D.	ug/m3	1.4	6.8
2-Hexanone	04/06/17	N.D.	ug/m3	2.0	8.2
Dibromochloromethane	04/06/17	N.D.	ug/m3	1.7	8.5
1,2-Dibromoethane	04/06/17	N.D.	ug/m3	1.5	7.7
Chlorobenzene	04/06/17	N.D.	ug/m3	0.92	4.6

Fraction: Volatile Organics in Air by GC/MS

E1709630AA / VBLKE55 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
1,1,1,2-Tetrachloroethane	04/06/17	N.D.	ug/m3	1.4	6.9
Ethylbenzene	04/06/17	N.D.	ug/m3	0.87	4.3
m/p-Xylene	04/06/17	N.D.	ug/m3	0.87	4.3
o-Xylene	04/06/17	N.D.	ug/m3	0.87	4.3
Styrene	04/06/17	N.D.	ug/m3	0.85	4.3
Bromoform	04/06/17	N.D.	ug/m3	2.1	10
Cumene	04/06/17	N.D.	ug/m3	0.98	4.9
1,1,2,2-Tetrachloroethane	04/06/17	N.D.	ug/m3	1.4	6.9
1,2,3-Trichloropropane	04/06/17	N.D.	ug/m3	1.2	6.0
Bromobenzene	04/06/17	N.D.	ug/m3	1.3	6.4
4-Ethyltoluene	04/06/17	N.D.	ug/m3	0.98	4.9
1,3,5-Trimethylbenzene	04/06/17	N.D.	ug/m3	0.98	4.9
1,2,4-Trimethylbenzene	04/06/17	N.D.	ug/m3	0.98	4.9
1,3-Dichlorobenzene	04/06/17	N.D.	ug/m3	1.2	6.0
1,4-Dichlorobenzene	04/06/17	N.D.	ug/m3	1.2	6.0
1,2-Dichlorobenzene	04/06/17	N.D.	ug/m3	1.2	6.0
Hexachloroethane	04/06/17	N.D.	ug/m3	4.8	19

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: VER01
Matrix: AIR

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

LCS: LCSE55 LCSD: LCSDE55	Batch: **E1709630AA** (Sample number(s): 8906225-8906232)							
Analyte	**Spike Added ug/m3**	**LCS Conc ug/m3**	**LCSD Conc ug/m3**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Dichlorodifluoromethane	49.45	58.4	57.35	118	116	74-133	2	25
Chlorodifluoromethane	35.37	42.38	40.56	120	115	70-138	4	25
Chloromethane	20.65	21.5	20.88	104	101	65-140	3	25
Freon 114	69.91	80	79.19	114	113	66-126	1	25
Vinyl Chloride	25.56	29.79	28.82	117	113	75-130	3	25
1,3-Butadiene	22.12	23.51	22.75	106	103	72-122	3	25
Bromomethane	38.83	45.47	44	117	113	71-133	3	25
Chloroethane	26.38	29.98	29.37	114	111	76-129	2	25
Dichlorofluoromethane	42.09	51.14	49.89	121	119	75-137	2	25
Trichlorofluoromethane	56.18	65.79	64.42	117	115	73-132	2	25
Pentane	29.51	31.4	31.07	106	105	69-125	1	25
1,1-Dichloroethene	39.65	46.81	45.36	118	114	70-129	3	25
Freon 113	76.64	85.17	84.61	111	110	66-119	1	25
Acetone	23.76	28.64	28.18	121	119	71-136	2	25
Carbon Disulfide	31.14	34.41	33.93	110	109	72-128	1	25
3-Chloropropene	31.3	42.02	42.22	134	135	67-141	0	25
Methylene Chloride	34.74	44.47	43.34	128	125	69-128	3	25
trans-1,2-Dichloroethene	39.65	44.74	44.46	113	112	77-128	1	25
Methyl t-Butyl Ether	36.05	40.23	39.32	112	109	71-119	2	25
Hexane	35.25	38.76	38.19	110	108	70-118	1	25
1,1-Dichloroethane	40.47	45.85	44.7	113	110	74-129	3	25
cis-1,2-Dichloroethene	39.65	44.93	44.31	113	112	76-126	1	25
2-Butanone	29.49	34.6	33.92	117	115	75-126	2	25
Chloroform	48.83	55.28	54.63	113	112	75-127	1	25
1,1,1-Trichloroethane	54.56	62.76	61.76	115	113	74-122	2	25
Carbon Tetrachloride	62.91	73.82	72.45	117	115	72-127	2	25
1,2-Dichloroethane	40.47	47.2	47.81	117	118	72-138	1	25
Benzene	31.95	35.02	35.37	110	111	76-123	1	25
Isooctane	46.72	51.02	51.39	109	110	74-127	1	25
Heptane	40.98	44.63	43.57	109	106	74-122	2	25
Trichloroethene	53.74	64.68	63.36	120 *	118	76-118	2	25
1,2-Dichloropropane	46.21	49.88	49.76	108	108	75-127	0	25
Dibromomethane	71.1	80.2	81.34	113	114	76-124	1	25
Bromodichloromethane	67.01	75.11	76.27	112	114	75-134	2	25
cis-1,3-Dichloropropene	45.39	49.23	50.29	108	111	51-120	2	25
4-Methyl-2-pentanone	40.96	44.93	45.64	110	111	68-133	2	25
Toluene	37.68	41	42.47	109	113	78-119	4	25
Octane	46.72	49.33	51.65	106	111	73-122	5	25
trans-1,3-Dichloropropene	45.39	49.14	51.25	108	113	72-119	4	25
1,1,2-Trichloroethane	54.56	59.88	61.91	110	113	76-127	3	25
Tetrachloroethene	67.82	77.41	79.07	114	117	68-123	2	25
2-Hexanone	40.96	45.01	45.19	110	110	63-144	0	25

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

LCS: LCSE55 LCSD: LCSDE55 **Analyte**	Batch: **E1709630AA** (Sample number(s): 8906225-8906232)							
	Spike Added ug/m3	**LCS Conc ug/m3**	**LCSD Conc ug/m3**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Dibromochloromethane	85.19	97.66	99.56	115	117	74-131	2	25
1,2-Dibromoethane	76.83	85.3	87.78	111	114	73-121	3	25
Chlorobenzene	46.04	48.46	49.93	105	108	76-117	3	25
1,1,1,2-Tetrachloroethane	68.65	78.01	80.62	114	117	73-124	3	25
Ethylbenzene	43.42	48.07	49.73	111	115	77-117	3	25
m/p-Xylene	43.42	50.41	51.26	116	118	78-119	2	25
o-Xylene	43.42	49.08	50.09	113	115	78-121	2	25
Styrene	42.6	47.68	48.27	112	113	76-127	1	25
Bromoform	103.37	116.63	121.86	113	118	69-128	4	25
Cumene	49.16	53	54.93	108	112	74-121	4	25
1,1,2,2-Tetrachloroethane	68.65	69.44	71.47	101	104	72-133	3	25
1,2,3-Trichloropropane	60.3	65.13	67.68	108	112	71-127	4	25
Bromobenzene	64.22	68.83	71.01	107	111	74-118	3	25
4-Ethyltoluene	49.16	52.68	55.98	107	114	73-130	6	25
1,3,5-Trimethylbenzene	49.16	52.97	53.45	108	109	72-130	1	25
1,2,4-Trimethylbenzene	49.16	53.86	55.15	110	112	70-138	2	25
1,3-Dichlorobenzene	60.12	65.81	67.76	109	113	75-129	3	25
1,4-Dichlorobenzene	60.12	65.67	67.24	109	112	74-123	2	25
1,2-Dichlorobenzene	60.12	66.51	68.39	111	114	71-126	3	25
Hexachloroethane	96.83	120.18	122.33	124	126	59-135	2	25

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FORM 05
VOLATILE ORGANICS IN AIR
INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

SDG No.:

Lab File ID: ec00840.d

BFB Injection Date: 03/30/2017

Instrument ID: 22820

BFB Injection Time: 16:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	13.11
75	30.0% - 66.0% of mass 95	41.74
95	Base peak, 100% relative abundance	100.00
96	5.0% - 9.0% of mass 95	6.82
173	< 2.0% of mass 174	0.57 (0.56)
174	> 50.0% of mass 95	102.47
175	4.0% - 9.0% of mass 174	7.42 (7.24)
176	93.0% - 101.0% of mass 174	100.52 (98.10)
177	5.0% - 9.0% of mass 176	6.66 (6.63)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD001	ec00847.d	03/30/2017	19:49
VSTD002	ec00848.d	03/30/2017	20:15
VSTD005	ec00849.d	03/30/2017	20:42
VSTD010	ec00850.d	03/30/2017	21:16
VSTD025	ec00851.d	03/30/2017	21:43
VSTD070	ec00852.d	03/30/2017	22:21
VBLKE48	ec00857.d	03/31/2017	01:10
LCSE48	ec00860.d	03/31/2017	02:51
LCSDE48	ec00861.d	03/31/2017	03:25
mdlv0.5	ec00862.d	03/31/2017	03:59
mdlv0.2	ec00863.d	03/31/2017	04:26
cc927	ec00864.d	03/31/2017	09:15
8896789DL	ec00866.d	03/31/2017	10:57
8896790DL	ec00867.d	03/31/2017	11:22
8896791DL	ec00868.d	03/31/2017	11:48
8902732	ec00869.d	03/31/2017	12:32
8902733	ec00870.d	03/31/2017	13:16
8902733	ec00871.d	03/31/2017	14:00

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FORM 05
VOLATILE ORGANICS IN AIR
INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

SDG No.:

Lab File ID: ed00090.d

BFB Injection Date: 04/06/2017

Instrument ID: 22820

BFB Injection Time: 12:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	14.36
75	30.0% - 66.0% of mass 95	43.17
95	Base peak, 100% relative abundance	100.00
96	5.0% - 9.0% of mass 95	6.92
173	< 2.0% of mass 174	0.61 (0.61)
174	> 50.0% of mass 95	101.50
175	4.0% - 9.0% of mass 174	7.40 (7.29)
176	93.0% - 101.0% of mass 174	98.94 (97.49)
177	5.0% - 9.0% of mass 176	6.60 (6.67)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	ed00091.d	04/06/2017	13:14
VBLKE55	ed00092.d	04/06/2017	14:01
LCSE55	ed00093.d	04/06/2017	14:44
LCSDE55	ed00094.d	04/06/2017	15:18
8906225	ed00107.d	04/06/2017	22:22
8906226	ed00108.d	04/06/2017	23:06
8906227	ed00109.d	04/06/2017	23:50
8906228	ed00110.d	04/07/2017	00:34
8906229	ed00111.d	04/07/2017	01:18
8906230	ed00112.d	04/07/2017	02:02
8906231	ed00113.d	04/07/2017	02:46
8906232	ed00114.d	04/07/2017	03:30
8906232	ed00115.d	04/07/2017	04:14
8906384	ed00116.d	04/07/2017	04:41
cc980	ed00120.d	04/07/2017	09:57

Theoretical Standard Concentrations for EPA Method TO-14/15.

Compound Name	Cas No	VSTD001	VSTD002	VSTD005	VSTD010	VSTD025	VSTD70
Bromochloromethane	74-97-5	10.00	10.00	10.00	10.00	10.00	10.00
Propene	115-07-1	1.00	2.00	5.00	10.00	25.00	70.0
Dichlorodifluoromethane	75-71-8	1.00	2.00	5.00	10.00	25.00	
Chlorodifluoromethane	75-45-6	1.00	2.00	5.00	10.00	25.00	
Freon 114	76-14-2	1.00	2.00	5.00	10.00	25.00	
Chloromethane	74-87-3	1.00	2.00	5.00	10.00	25.00	
Vinyl Chloride	75-01-4	1.00	2.00	5.00	10.00	25.00	70.0
1,3-Butadiene	106-99-0	1.00	2.00	5.00	10.00	25.00	
Bromomethane	74-83-9	1.00	2.00	5.00	10.00	25.00	
Chloroethane	75-00-3	1.00	2.00	5.00	10.00	25.00	
Bromoethene	593-60-2	1.00	2.00	5.00	10.00	25.00	
Dichlorofluoromethane	75-43-4	1.00	2.00	5.00	10.00	25.00	
Trichlorofluoromethane	75-69-4	1.00	2.00	5.00	10.00	25.00	
Pentane	109-66-0	1.00	2.00	5.00	10.00	25.00	70.0
Ethanol	9003-99-0	1.00	2.00	5.00	10.00	25.00	
Acrolein	107-02-8	1.00	2.00	5.00	10.00	25.00	
1,1-Dichloroethene	75-35-4	1.00	2.00	5.00	10.00	25.00	70.0
Freon 113	76-13-1	1.00	2.00	5.00	10.00	25.00	
Acetone	67-64-1	1.00	2.00	5.00	10.00	25.00	70.0
Methyl Iodide	74-88-4	1.00	2.00	5.00	10.00	25.00	
Carbon Disulfide	75-15-0	1.00	2.00	5.00	10.00	25.00	
Acetonitrile	75-05-8	1.00	2.00	5.00	10.00	25.00	
3-Chloropropene	107-05-1	1.00	2.00	5.00	10.00	25.00	
Methylene Chloride	75-09-2	1.00	2.00	5.00	10.00	25.00	70.0
tert-Butyl Alcohol	75-65-0	1.12	2.24	5.60	11.20	28.00	78.4
Acrylonitrile	107-13-1	1.00	2.00	5.00	10.00	25.00	
trans-1,2-Dichloroethene	156-60-5	1.00	2.00	5.00	10.00	25.00	70.0
Methyl t-Butyl Ether	1634-04-4	1.00	2.00	5.00	10.00	25.00	
Hexane	110-54-3	1.00	2.00	5.00	10.00	25.00	70.0
1,1-Dichloroethane	75-34-3	1.00	2.00	5.00	10.00	25.00	70.0
Vinyl Acetate	108-05-4	1.00	2.00	5.00	10.00	25.00	
Di-Isopropyl Ether	108-20-3	1.00	2.00	5.00	10.00	25.00	
Ethyl Tert-Butyl Ether	637-92-3	1.00	2.00	5.00	10.00	25.00	
cis-1,2-Dichloroethene	156-59-2	1.00	2.00	5.00	10.00	25.00	70.0
2-Butanone	78-93-3	1.00	2.00	5.00	10.00	25.00	70.0
Ethyl Acetate	141-78-6	1.00	2.00	5.00	10.00	25.00	
Methyl Acrylate	96-33-3	1.00	2.00	5.00	10.00	25.00	
Tetrahydrofuran	77392-70-2	1.00	2.00	5.00	10.00	25.00	
Chloroform	67-66-3	1.00	2.00	5.00	10.00	25.00	
1,1,1-Trichloroethane	71-55-6	1.00	2.00	5.00	10.00	25.00	70.0
Cyclohexane	68411-77-8	1.00	2.00	5.00	10.00	25.00	
Carbon Tetrachloride	56-23-5	1.00	2.00	5.00	10.00	25.00	70.0
1,4-Difluorobenzene	540-36-3	10.00	10.00	10.00	10.00	10.00	10.00
1,2-Dichloroethane	107-06-2	1.00	2.00	5.00	10.00	25.00	70.0
Benzene	71-43-2	1.00	2.00	5.00	10.00	25.00	70.0
Isooctane	540-84-1	1.00	2.00	5.00	10.00	25.00	70.0
Tert Amyl Methyl Ether	64257-84-7	1.00	2.00	5.00	10.00	25.00	
Heptane	142-82-5	1.00	2.00	5.00	10.00	25.00	70.0

Theoretical Standard Concentrations for EPA Method TO-14/15.

Trichloroethene	79-01-6	1.00	2.00	5.00	10.00	25.00	70.0
Ethyl Acrylate	140-88-5	1.00	2.00	5.00	10.00	25.00	
1,2-Dichloropropane	78-87-5	1.00	2.00	5.00	10.00	25.00	
Methyl Methacrylate	80-62-6	1.00	2.00	5.00	10.00	25.00	
Dibromomethane	74-95-3	1.00	2.00	5.00	10.00	25.00	
1,4-Dioxane	123-91-1	1.00	2.00	5.00	10.00	25.00	
Bromodichloromethane	75-27-4	1.00	2.00	5.00	10.00	25.00	
cis-1,3-Dichloropropene	10061-01-5	1.00	2.00	5.00	10.00	25.00	
4-Methyl-2-Pentanone	108-10-1	1.00	2.00	5.00	10.00	25.00	
Chlorobenzene d5	3114-55-4	10.00	10.00	10.00	10.00	10.00	10.00
Toluene	108-88-3	1.00	2.00	5.00	10.00	25.00	70.0
Octane	111-65-9	1.00	2.00	5.00	10.00	25.00	
trans-1,3-Dichloropropene	10061-02-6	1.00	2.00	5.00	10.00	25.00	
Ethyl Methacrylate	97-63-2	1.00	2.00	5.00	10.00	25.00	
1,1,2-Trichloroethane	79-00-5	1.00	2.00	5.00	10.00	25.00	70.0
Tetrachloroethene	127-18-4	1.00	2.00	5.00	10.00	25.00	70.0
2-Hexanone	591-78-6	1.00	2.00	5.00	10.00	25.00	
Dibromochloromethane	124-48-1	1.00	2.00	5.00	10.00	25.00	
1,2-Dibromoethane	106-93-4	1.00	2.00	5.00	10.00	25.00	
Chlorobenzene	108-90-7	1.00	2.00	5.00	10.00	25.00	
1,1,1,2-Tetrachloroethane	630-20-6	1.00	2.00	5.00	10.00	25.00	
Ethylbenzene	100-41-4	1.00	2.00	5.00	10.00	25.00	70.0
m/p-Xylene	1330-20-7	1.00	2.00	5.00	10.00	25.00	70.0
o-Xylene	95-47-6	1.00	2.00	5.00	10.00	25.00	70.0
Styrene	100-42-5	1.00	2.00	5.00	10.00	25.00	
Bromoform	75-25-2	1.00	2.00	5.00	10.00	25.00	
Cumene	98-82-8	1.00	2.00	5.00	10.00	25.00	
1,1,2,2-Tetrachloroethane	79-34-5	1.00	2.00	5.00	10.00	25.00	
1,2,3-Trichloropropane	96-18-4	1.00	2.00	5.00	10.00	25.00	
n-Propylbenzene	74296-31-4	1.00	2.00	5.00	10.00	25.00	
2-Chlorotoluene	95-49-8	1.00	2.00	5.00	10.00	25.00	
Bromobenzene	108-86-1	1.00	2.00	5.00	10.00	25.00	
4-Ethyltoluene	622-96-8	1.00	2.00	5.00	10.00	25.00	
1,3,5-Trimethylbenzene	108-67-8	1.00	2.00	5.00	10.00	25.00	
Alpha Methyl Styrene	611-15-1	1.00	2.00	5.00	10.00	25.00	
tert-Butylbenzene	98-06-6	1.00	2.00	5.00	10.00	25.00	
1,2,4-Trimethylbenzene	95-63-6	1.00	2.00	5.00	10.00	25.00	
sec-Butylbenzene	68411-44-9	1.00	2.00	5.00	10.00	25.00	
1,3-Dichlorobenzene	541-73-1	1.00	2.00	5.00	10.00	25.00	
1,4-Dichlorobenzene	106-46-7	1.00	2.00	5.00	10.00	25.00	
p-Isopropyltoluene	99-87-6	1.00	2.00	5.00	10.00	25.00	
Benzyl chloride	100-44-7	1.00	2.00	5.00	10.00	25.00	
1,2-Dichlorobenzene	95-50-1	1.00	2.00	5.00	10.00	25.00	
n-Butylbenzene	74296-32-5	1.00	2.00	5.00	10.00	25.00	
Hexachloroethane	67-72-1	1.00	2.00	5.00	10.00	25.00	
1,2-Dibromo-3-Chloropropane	96-12-8	1.00	2.00	5.00	10.00	25.00	
1,2,4-Trichlorobenzene	120-82-1	1.00	2.00	5.00	10.00	25.00	
Hexachlorobutadiene	87-68-3	1.00	2.00	5.00	10.00	25.00	
Naphthalene	91-20-3	1.00	2.00	5.00	10.00	25.00	

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FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 22820 Calibration Start Date: 03/30/2017 Calibration End Date: 03/30/2017

Calibration Start Time: 19:49 Calibration End Time: 22:21

LAB FILE IDs:
RRF 1 = ec00847.d RRF 2 = ec00848.d RRF 5 = ec00849.d RRF 10 = ec00850.d RRF 25 = ec00851.d
RRF 70 = ec00852.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
Propene	0.634	0.628	0.642	0.619	0.620	0.625	0.628	1	AVG
Dichlorodifluoromethane	2.256	2.426	2.628	2.594	2.580	2.624	2.518	6	AVG
Chlorodifluoromethane	1.277	1.271	1.335	1.327	1.333	1.321	1.311	2	AVG
Freon 114	2.414	2.545	2.782	2.693	2.701	2.687	2.637	5	AVG
Chloromethane	0.764	0.691	0.712	0.659	0.655	0.573	0.676	10	AVG
Vinyl Chloride	0.829	0.931	1.003	0.971	0.966	0.985	0.947	7	AVG
1,3-Butadiene	0.661	0.700	0.703	0.697	0.701	0.715	0.696	3	AVG
Bromomethane	0.887	0.930	1.014	1.035	0.976	0.973	0.969	6	AVG
Chloroethane	0.510	0.497	0.546	0.536	0.533	0.544	0.528	4	AVG
Bromoethene	0.972	1.002	1.093	1.076	1.080	1.103	1.054	5	AVG
Dichlorofluoromethane	1.894	2.027	2.146	2.093	2.111	2.126	2.066	5	AVG
Trichlorofluoromethane	2.573	2.591	2.815	2.761	2.737	2.778	2.709	4	AVG
Pentane	1.346	1.376	1.482	1.447	1.407	1.443	1.417	4	AVG
Ethanol	0.237	0.231	0.198	0.212	0.269	0.281	0.238	14	AVG
Freon123a	2.005	1.977	2.038	2.023	1.982	1.997	2.004	1	AVG
Acrolein	0.330	0.338	0.384	0.372	0.378	0.389	0.365	7	AVG
1,1-Dichloroethene	1.333	1.407	1.505	1.527	1.503	1.515	1.465	5	AVG
Freon 113	1.639	1.576	1.603	1.592	1.581	1.582	1.596	1	AVG
Acetone	1.011	1.151	1.157	1.141	1.184	1.170	1.136	6	AVG
Methyl Iodide	2.759	3.094	3.009	2.748	3.200	3.058	2.978	6	AVG
Carbon Disulfide	2.555	2.795	3.033	3.014	3.004	3.010	2.902	7	AVG
Isopropanol	0.935	0.922	1.024	1.015	1.154	****	1.010	9	AVG
Acetonitrile	0.609	0.528	0.551	0.524	0.482	0.465	0.526	10	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

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FORM 06
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INITIAL CALIBRATION DATA

SDG No.:

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LAB FILE IDs:
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RRF 70 = ec00852.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
3-Chloropropene	0.407	0.415	0.441	0.457	0.449	0.465	0.439	5	AVG
Methylene Chloride	0.746	0.848	0.909	0.893	0.890	0.896	0.864	7	AVG
tert-Butyl Alcohol	1.591	1.603	1.664	1.668	1.802	****	1.666	5	AVG
Acrylonitrile	0.691	0.749	0.765	0.747	0.799	0.786	0.756	5	AVG
trans-1,2-Dichloroethene	1.205	1.306	1.422	1.413	1.400	1.406	1.359	6	AVG
Methyl t-Butyl Ether	2.854	2.869	3.043	2.961	2.966	2.982	2.946	2	AVG
Hexane	1.512	1.382	1.503	1.464	1.467	1.499	1.471	3	AVG
1,1-Dichloroethane	1.662	1.734	1.828	1.835	1.819	1.841	1.786	4	AVG
Vinyl Acetate	0.187	0.233	0.248	0.265	0.278	****	0.242	15	AVG
Di-Isopropyl Ether	2.805	2.757	2.877	2.870	2.888	2.882	2.846	2	AVG
Ethyl Tert-Butyl Ether	2.850	2.831	3.052	2.990	3.055	3.103	2.980	4	AVG
cis-1,2-Dichloroethene	1.109	1.266	1.369	1.341	1.333	1.352	1.295	8	AVG
2-Butanone	0.457	0.496	0.522	0.533	0.551	0.560	0.520	7	AVG
Ethyl Acetate	0.307	0.274	0.285	0.263	0.271	0.275	0.279	6	AVG
Methyl Acrylate	1.418	1.461	1.560	1.600	1.666	1.712	1.569	7	AVG
Tetrahydrofuran	0.824	0.952	0.937	0.964	0.972	0.970	0.936	6	AVG
Chloroform	2.059	2.191	2.379	2.292	2.282	2.304	2.251	5	AVG
1,1,1-Trichloroethane	2.179	2.219	2.301	2.293	2.313	2.354	2.277	3	AVG
Cyclohexane	1.509	1.537	1.553	1.523	1.560	1.566	1.541	1	AVG
Carbon Tetrachloride	2.315	2.279	2.299	2.346	2.429	2.513	2.364	4	AVG
Benzene	0.900	0.906	0.930	0.943	0.944	0.943	0.928	2	AVG
1,2-Dichloroethane	0.325	0.334	0.364	0.358	0.357	0.359	0.349	4	AVG
Isooctane	1.237	1.231	1.272	1.301	1.314	1.303	1.276	3	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
# Average RRF for all compounds must be greater than 0.010.

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SDG No.:

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Calibration Start Time: 19:49 Calibration End Time: 22:21

LAB FILE IDs:
RRF 1 = ec00847.d RRF 2 = ec00848.d RRF 5 = ec00849.d RRF 10 = ec00850.d RRF 25 = ec00851.d
RRF 70 = ec00852.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
Tert-Amyl Methyl Ether	0.788	0.818	0.828	0.853	0.883	0.879	0.842	4	AVG
Heptane	0.427	0.427	0.414	0.418	0.429	0.422	0.423	1	AVG
Trichloroethene	0.450	0.457	0.476	0.482	0.495	0.507	0.478	5	AVG
Ethyl Acrylate	0.504	0.502	0.506	0.545	0.582	0.599	0.540	8	AVG
1,2-Dichloropropane	0.311	0.316	0.317	0.322	0.318	0.320	0.317	1	AVG
Dibromomethane	0.423	0.458	0.460	0.480	0.497	0.506	0.471	6	AVG
1,4-Dioxane	0.211	0.209	0.215	0.223	0.238	0.239	0.222	6	AVG
Methyl Methacrylate	0.310	0.292	0.294	0.311	0.317	0.332	0.309	5	AVG
Bromodichloromethane	0.562	0.574	0.582	0.611	0.646	0.654	0.605	6	AVG
cis-1,3-Dichloropropene	0.515	0.494	0.516	0.542	0.573	0.585	0.538	7	AVG
4-Methyl-2-Pentanone	0.518	0.522	0.522	0.537	0.567	0.566	0.539	4	AVG
Toluene	1.294	1.220	1.172	1.163	1.208	1.185	1.207	4	AVG
Octane	0.637	0.583	0.599	0.572	0.599	0.565	0.593	4	AVG
trans-1,3-Dichloropropene	0.452	0.436	0.441	0.460	0.492	0.512	0.466	7	AVG
Ethyl Methacrylate	0.502	0.463	0.487	0.499	0.554	****	0.501	7	AVG
1,1,2-Trichloroethane	0.405	0.388	0.391	0.396	0.416	0.423	0.403	3	AVG
Tetrachloroethene	0.722	0.702	0.694	0.698	0.718	0.729	0.711	2	AVG
2-Hexanone	0.517	0.477	0.485	0.483	0.546	0.541	0.508	6	AVG
Dibromochloromethane	0.482	0.471	0.492	0.514	0.577	0.613	0.525	11	AVG
1,2-Dibromoethane	0.606	0.599	0.614	0.617	0.675	0.682	0.632	6	AVG
Chlorobenzene	1.073	1.030	0.990	0.990	1.061	1.066	1.035	4	AVG
1,1,1,2-Tetrachloroethane	0.494	0.483	0.487	0.506	0.565	0.586	0.520	8	AVG
Ethylbenzene	1.578	1.546	1.512	1.508	1.608	1.528	1.547	3	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 22820 Calibration Start Date: 03/30/2017 Calibration End Date: 03/30/2017

Calibration Start Time: 19:49 Calibration End Time: 22:21

LAB FILE IDs:
RRF 1 = ec00847.d RRF 2 = ec00848.d RRF 5 = ec00849.d RRF 10 = ec00850.d RRF 25 = ec00851.d
RRF 70 = ec00852.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
m/p-Xylene	1.268	1.229	1.186	1.202	1.235	1.210	1.222	2	AVG
o-Xylene	1.222	1.164	1.136	1.143	1.234	1.206	1.184	4	AVG
Styrene	0.860	0.857	0.858	0.892	1.012	****	0.896	7	AVG
Bromoform	0.561	0.556	0.570	0.624	0.797	0.875	0.664	21	AVG
Cumene	1.672	1.628	1.615	1.622	1.795	****	1.666	5	AVG
Bromobenzene	0.622	0.607	0.606	0.599	0.698	0.698	0.638	7	AVG
1,1,2,2-Tetrachloroethane	0.759	0.725	0.723	0.731	0.879	0.870	0.781	9	AVG
1,2,3-Trichloropropane	0.268	0.250	0.251	0.241	0.278	0.277	0.261	6	AVG
n-Propylbenzene	0.509	0.482	0.472	0.481	0.552	0.556	0.509	7	AVG
2-Chlorotoluene	0.451	0.439	0.429	0.433	0.501	0.499	0.458	7	AVG
4-Ethyltoluene	1.631	1.554	1.582	1.606	1.854	****	1.645	7	AVG
1,3,5-Trimethylbenzene	1.359	1.317	1.274	1.289	1.507	1.459	1.367	7	AVG
Alpha Methyl Styrene	0.615	0.598	0.606	0.635	0.801	****	0.651	13	AVG
tert-Butylbenzene	1.302	1.316	1.290	1.315	1.512	****	1.347	7	AVG
1,2,4-Trimethylbenzene	1.279	1.236	1.228	1.231	1.493	****	1.294	9	AVG
sec-Butylbenzene	1.833	1.828	1.810	1.819	2.189	****	1.896	9	AVG
1,3-Dichlorobenzene	0.984	0.926	0.910	0.916	1.158	****	0.979	11	AVG
1,4-Dichlorobenzene	0.988	0.962	0.919	0.926	1.170	****	0.993	10	AVG
p-Isopropyltoluene	1.554	1.514	1.509	1.536	1.936	****	1.610	11	AVG
Benzyl Chloride	0.778	0.725	0.766	0.804	1.201	****	0.855	23	AVG
1,2-Dichlorobenzene	0.872	0.826	0.819	0.818	1.081	****	0.883	13	AVG
n-Butylbenzene	1.294	1.203	1.243	1.261	1.672	****	1.335	14	AVG
Hexachloroethane	0.316	0.316	0.335	0.372	0.539	****	0.376	25	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
\# Average RRF for all compounds must be greater than 0.010.

SDG No.:

Instrument ID: 22820 Calibration Start Date: 03/30/2017 Calibration End Date: 03/30/2017

Calibration Start Time: 19:49 Calibration End Time: 22:21

LAB FILE IDs:
RRF 1 = ec00847.d RRF 2 = ec00848.d RRF 5 = ec00849.d RRF 10 = ec00850.d RRF 25 = ec00851.d
RRF 70 = ec00852.d

COMPOUND	RFF 1	RFF 2	RFF 5	RFF 10	RFF 25	RFF 70	$\overline{RRF}$	% RSD	CAL. METHOD
1,2-Dibromo-3-chloropropane *	0.283	0.289	0.295	0.319	0.541	****	0.345	32	AVG *
1,2,4-Trichlorobenzene	0.482	0.455	0.456	0.458	0.798	****	0.530	28	AVG
Hexachlorobutadiene	0.421	0.420	0.406	0.411	0.722	****	0.476	29	AVG
Naphthalene *	0.836	0.791	0.802	0.840	1.536	****	0.961	34	AVG *

Average % RSD: 7

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* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
# Average RRF for all compounds must be greater than 0.010.

Internal Standard
Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP22820.i/17mar30.b/ec00847.d VSTD001
/chem/HP22820.i/17mar30.b/ec00848.d VSTD002
/chem/HP22820.i/17mar30.b/ec00849.d VSTD005
/chem/HP22820.i/17mar30.b/ec00850.d VSTD010
/chem/HP22820.i/17mar30.b/ec00851.d VSTD025
/chem/HP22820.i/17mar30.b/ec00852.d VSTD070

Area Summary

	File ID:								
Internal Standard Name	ec00847.d	ec00848.d	ec00849.d	ec00850.d	ec00851.d	ec00852.d	Avg. Area	%RSD	In Spec
Bromochloromethane	249117	247599	239020	246234	246075	247499	245924	1	Yes
1,4-Difluorobenzene	933809	923863	924716	914576	914086	929368	923403	1	Yes
Chlorobenzene-d5	889701	896034	905228	912023	905013	921145	904857	1	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

	File ID:						
Internal Standard Name	ec00847.d	ec00848.d	ec00849.d	ec00850.d	ec00851.d	ec00852.d	Avg. RT
Bromochloromethane	5.467	5.467	5.467	5.467	5.467	5.474	5.468
1,4-Difluorobenzene	6.291	6.298	6.298	6.298	6.298	6.298	6.297
Chlorobenzene-d5	8.497	8.497	8.497	8.497	8.497	8.497	8.497

Comments:_____

_____

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Report generated on 03/31/2017 at 08:51

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FORM 03
VOLATILE ORGANICS IN AIR
LABORATORY CONTROL SAMPLE RECOVERY

SDG No.:

Instrument ID: 22820 LCS File ID: ec00860.d LCSD File ID: ec00861.d

Batch: E1708930AA LCS Injected: 03/31/2017 LCSD Injected: 03/31/2017

Method: EPA TO-15 LCS Client ID: LCSE48 LCSD Client ID: LCSDE48

Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb(v))	LCSD CONC. (ppb(v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Propene	10.00	10.18	10.32	102	103	66-127	1	25	YES
Dichlorodifluoromethane	10.00	10.82	10.69	108	107	74-133	1	25	YES
Chlorodifluoromethane	10.00	11.28	11.13	113	111	70-138	1	25	YES
Freon 114	10.00	10.86	10.76	109	108	66-126	1	25	YES
Chloromethane	10.00	10.57	10.07	106	101	65-140	5	25	YES
Vinyl Chloride	10.00	11.01	10.90	110	109	75-130	1	25	YES
1,3-Butadiene	10.00	10.40	10.21	104	102	72-122	2	25	YES
Bromomethane	10.00	11.03	10.89	110	109	71-133	1	25	YES
Chloroethane	10.00	11.04	10.82	110	108	76-129	2	25	YES
Bromoethene	10.00	11.00	10.97	110	110	77-123	0	25	YES
Dichlorofluoromethane	10.00	11.16	11.02	112	110	75-137	1	25	YES
Trichlorofluoromethane	10.00	10.73	10.55	107	105	73-132	2	25	YES
Pentane	10.00	10.42	10.10	104	101	69-125	3	25	YES
Ethanol	10.00	13.19	13.00	132	130	38-150	1	25	YES
Acrolein	10.00	11.42	11.62	114	116	54-132	2	25	YES
1,1-Dichloroethene	10.00	10.91	10.82	109	108	70-129	1	25	YES
Freon 113	10.00	10.47	10.26	105	103	66-119	2	25	YES
Acetone	10.00	10.98	10.59	110	106	71-136	4	25	YES
Methyl Iodide	10.00	10.30	10.25	103	103	46-114	0	25	YES
Carbon Disulfide	10.00	10.52	10.42	105	104	72-128	1	25	YES
Isopropanol	10.00	13.77	13.45	138	135	41-157	2	25	YES
Acetonitrile	10.00	11.21	11.35	112	113	56-136	1	25	YES
3-Chloropropene	10.00	12.94	12.67	129	127	67-141	2	25	YES
Methylene Chloride	10.00	12.00	11.80	120	118	69-128	2	25	YES
tert-Butyl Alcohol	10.00	12.37	12.18	124	122	63-139	2	25	YES
Acrylonitrile	10.00	11.21	11.05	112	111	68-135	1	25	YES
trans-1,2-Dichloroethene	10.00	10.75	10.59	108	106	77-128	2	25	YES
Methyl t-Butyl Ether	10.00	10.54	10.38	105	104	71-119	2	25	YES
Hexane	10.00	10.73	10.48	107	105	70-118	2	25	YES
1,1-Dichloroethane	10.00	10.64	10.54	106	105	74-129	1	25	YES
Vinyl Acetate	10.00	13.68	13.41	137 *	134 *	47-131	2	25	NO
Di-Isopropyl Ether	10.00	10.77	10.54	108	105	71-122	2	25	YES
Ethyl Tert-Butyl Ether	10.00	10.64	10.42	106	104	68-121	2	25	YES
cis-1,2-Dichloroethene	10.00	10.87	10.69	109	107	76-126	2	25	YES
2-Butanone	10.00	11.25	11.12	113	111	75-126	1	25	YES
Ethyl Acetate	10.00	9.74	10.14	97	101	62-160	4	25	YES

COMMENTS:
Applies to Sample(s): 8896789-8896791

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FORM 03
VOLATILE ORGANICS IN AIR
LABORATORY CONTROL SAMPLE RECOVERY

SDG No.:

Instrument ID: 22820 LCS File ID: ec00860.d LCSD File ID: ec00861.d

Batch: E1708930AA LCS Injected: 03/31/2017 LCSD Injected: 03/31/2017

Method: EPA TO-15 LCS Client ID: LCSE48 LCSD Client ID: LCSDE48

Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb(v))	LCSD CONC. (ppb(v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Methyl Acrylate	10.00	11.08	11.00	111	110	75-125	1	25	YES
Tetrahydrofuran	10.00	10.86	10.99	109	110	67-127	1	25	YES
Chloroform	10.00	10.62	10.55	106	105	75-127	1	25	YES
1,1,1-Trichloroethane	10.00	10.68	10.54	107	105	74-122	1	25	YES
Cyclohexane	10.00	10.69	10.56	107	106	70-118	1	25	YES
Carbon Tetrachloride	10.00	10.63	10.59	106	106	72-127	0	25	YES
Benzene	10.00	10.34	10.55	103	105	76-123	2	25	YES
1,2-Dichloroethane	10.00	10.56	10.77	106	108	72-138	2	25	YES
Isooctane	10.00	10.30	10.44	103	104	74-127	1	25	YES
Tert-Amyl Methyl Ether	10.00	10.37	10.43	104	104	78-124	1	25	YES
Heptane	10.00	10.18	10.33	102	103	74-122	1	25	YES
Trichloroethene	10.00	10.55	10.72	105	107	76-118	2	25	YES
Ethyl Acrylate	10.00	10.78	11.15	108	112	71-126	3	25	YES
1,2-Dichloropropane	10.00	10.17	10.29	102	103	75-127	1	25	YES
Dibromomethane	10.00	10.58	10.69	106	107	76-124	1	25	YES
1,4-Dioxane	10.00	10.84	11.23	108	112	76-124	4	25	YES
Methyl Methacrylate	10.00	10.43	10.61	104	106	73-117	2	25	YES
Bromodichloromethane	10.00	10.40	10.63	104	106	75-134	2	25	YES
cis-1,3-Dichloropropene	10.00	10.40	10.60	104	106	51-120	2	25	YES
4-Methyl-2-Pentanone	10.00	10.62	10.92	106	109	68-133	3	25	YES
Toluene	10.00	10.38	10.41	104	104	78-119	0	25	YES
Octane	10.00	10.41	10.49	104	105	73-122	1	25	YES
trans-1,3-Dichloropropene	10.00	10.56	10.65	106	106	72-119	1	25	YES
Ethyl Methacrylate	10.00	10.88	11.11	109	111	71-123	2	25	YES
1,1,2-Trichloroethane	10.00	10.65	10.91	107	109	76-127	2	25	YES
Tetrachloroethene	10.00	10.31	10.38	103	104	68-123	1	25	YES
2-Hexanone	10.00	11.42	11.26	114	113	63-144	1	25	YES
Dibromochloromethane	10.00	10.82	10.93	108	109	74-131	1	25	YES
1,2-Dibromoethane	10.00	10.86	10.87	109	109	73-121	0	25	YES
Chlorobenzene	10.00	10.52	10.47	105	105	76-117	0	25	YES
1,1,1,2-Tetrachloroethane	10.00	10.86	10.78	109	108	73-124	1	25	YES
Ethylbenzene	10.00	10.65	10.67	106	107	77-117	0	25	YES
m/p-Xylene	10.00	10.56	10.67	106	107	78-119	1	25	YES
o-Xylene	10.00	10.76	10.70	108	107	78-121	1	25	YES
Xylene (total)	20.00	21.32	21.37	107	107	79-120	0	25	YES
Styrene	10.00	11.47	11.43	115	114	76-127	0	25	YES

COMMENTS:
Applies to Sample(s): 8896789-8896791

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FORM 03
VOLATILE ORGANICS IN AIR
LABORATORY CONTROL SAMPLE RECOVERY

SDG No.:

Instrument ID: 22820 LCS File ID: ec00860.d LCSD File ID: ec00861.d

Batch: E1708930AA LCS Injected: 03/31/2017 LCSD Injected: 03/31/2017

Method: EPA TO-15 LCS Client ID: LCSE48 LCSD Client ID: LCSDE48

Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb(v))	LCSD CONC. (ppb(v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Bromoform	10.00	11.15	11.31	111	113	69-128	1	25	YES
Cumene	10.00	11.16	11.14	112	111	74-121	0	25	YES
Bromobenzene	10.00	10.72	10.98	107	110	74-118	2	25	YES
1,1,2,2-Tetrachloroethane	10.00	11.41	11.34	114	113	72-133	1	25	YES
1,2,3-Trichloropropane	10.00	11.23	11.20	112	112	71-127	0	25	YES
n-Propylbenzene	10.00	10.60	10.60	106	106	73-120	0	25	YES
2-Chlorotoluene	10.00	11.14	11.04	111	110	74-123	1	25	YES
4-Ethyltoluene	10.00	11.29	11.34	113	113	73-130	0	25	YES
1,3,5-Trimethylbenzene	10.00	11.33	11.30	113	113	72-130	0	25	YES
Alpha Methyl Styrene	10.00	11.94	11.94	119*	119*	67-118	0	25	NO
tert-Butylbenzene	10.00	11.37	11.52	114	115	68-124	1	25	YES
1,2,4-Trimethylbenzene	10.00	11.60	11.79	116	118	70-138	2	25	YES
sec-Butylbenzene	10.00	11.56	11.73	116	117	73-125	1	25	YES
1,3-Dichlorobenzene	10.00	11.71	11.87	117	119	75-129	1	25	YES
1,4-Dichlorobenzene	10.00	11.61	11.72	116	117	74-123	1	25	YES
p-Isopropyltoluene	10.00	11.82	11.94	118	119	70-131	1	25	YES
Benzyl Chloride	10.00	13.10	13.02	131	130	60-136	1	25	YES
1,2-Dichlorobenzene	10.00	12.07	11.94	121	119	71-126	1	25	YES
n-Butylbenzene	10.00	12.07	12.11	121	121	70-129	0	25	YES
Hexachloroethane	10.00	12.95	13.19	130	132	59-135	2	25	YES
1,2-Dibromo-3-chloropropane	10.00	14.87	14.78	149*	148*	56-129	1	25	NO
1,2,4-Trichlorobenzene	10.00	14.81	15.08	148*	151*	48-135	2	25	NO
Hexachlorobutadiene	10.00	13.82	14.01	138*	140*	55-127	1	25	NO
Naphthalene	10.00	16.04	16.26	160*	163*	39-152	1	25	NO

COMMENTS:
Applies to Sample(s): 8896789-8896791

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FORM 07
VOLATILE ORGANICS IN AIR
CONTINUING CALIBRATION CHECK

SDG No.:

Lab File ID: ed00091.d

Calibration Date: 04/06/2017

Instrument ID: 22820

Calibration Time: 13:14

Init. Calib. Date(s): 04/03/2017 - 04/04/2017

COMPOUND	$\overline{RRF}$	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Propene	0.628	0.654	10.423	10	4
Dichlorodifluoromethane	2.518	2.850	11.319	10	13
Chlorodifluoromethane	1.311	1.422	10.846	10	8
Freon 114	2.637	2.930	11.110	10	11
Chloromethane	0.676	0.684	10.128	10	1
Vinyl Chloride	0.947	1.009	10.650	10	6
1,3-Butadiene	0.696	0.714	10.256	10	3
Bromomethane	0.969	1.088	11.221	10	12
Chloroethane	0.528	0.558	10.562	10	6
Bromoethene	1.054	1.132	10.737	10	7
Dichlorofluoromethane	2.066	2.287	11.067	10	11
Trichlorofluoromethane	2.709	3.040	11.222	10	12
Pentane	1.417	1.489	10.512	10	5
Ethanol	0.238	0.217	9.135	10	-9
Freon123a	2.004	2.173	10.844	10	8
Acrolein	0.365	0.381	10.427	10	4
1,1-Dichloroethene	1.465	1.625	11.090	10	11
Freon 113	1.596	1.688	10.581	10	6
Acetone	1.136	1.230	10.828	10	8
Methyl Iodide	2.978	3.029	10.171	10	2
Carbon Disulfide	2.902	3.144	10.835	10	8
Isopropanol	1.010	1.114	12.463	11.3	10
Acetonitrile	0.526	0.475	9.017	10	-10
3-Chloropropene	0.439	0.467	11.924	11.2	6
Methylene Chloride	0.864	0.933	12.093	11.2	8
tert-Butyl Alcohol	1.666	1.925	12.944	11.2	16
Acrylonitrile	0.756	0.776	10.269	10	3
trans-1,2-Dichloroethene	1.359	1.474	10.846	10	8
Methyl t-Butyl Ether	2.946	3.100	10.522	10	5
Hexane	1.471	1.509	10.255	10	3
1,1-Dichloroethane	1.786	1.950	10.917	10	9
Vinyl Acetate	0.242	0.295	13.753	11.3	22
Di-Isopropyl Ether	2.846	2.964	10.415	10	4
Ethyl Tert-Butyl Ether	2.980	3.097	10.393	10	4
cis-1,2-Dichloroethene	1.295	1.419	10.961	10	10
2-Butanone	0.520	0.553	10.630	10	6
Ethyl Acetate	0.279	0.270	9.688	10	-3
Methyl Acrylate	1.569	1.705	10.861	10	9
Tetrahydrofuran	0.936	1.001	10.688	10	7

* Maximum %DRIFT = 30%.
# Average RRF for all compounds must be greater than 0.010.

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FORM 07
VOLATILE ORGANICS IN AIR
CONTINUING CALIBRATION CHECK

SDG No.:

Lab File ID: ed00091.d

Calibration Date: 04/06/2017

Instrument ID: 22820

Calibration Time: 13:14

Init. Calib. Date(s): 04/03/2017 - 04/04/2017

COMPOUND	$\overline{RRF}$	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Chloroform	2.251	2.439	10.833	10	8
1,1,1-Trichloroethane	2.277	2.463	10.820	10	8
Cyclohexane	1.541	1.585	10.280	10	3
Carbon Tetrachloride	2.364	2.609	11.038	10	10
Benzene	0.928	0.970	10.459	10	5
1,2-Dichloroethane	0.349	0.393	11.242	10	12
Isooctane	1.276	1.351	10.588	10	6
Tert-Amyl Methyl Ether	0.842	0.893	10.607	10	6
Heptane	0.423	0.436	10.327	10	3
Trichloroethene	0.478	0.517	10.818	10	8
Ethyl Acrylate	0.540	0.578	10.719	10	7
1,2-Dichloropropane	0.317	0.327	10.314	10	3
Dibromomethane	0.471	0.518	11.015	10	10
1,4-Dioxane	0.222	0.227	10.204	10	2
Methyl Methacrylate	0.309	0.317	10.256	10	3
Bromodichloromethane	0.605	0.663	10.964	10	10
cis-1,3-Dichloropropene	0.538	0.565	10.502	10	5
4-Methyl-2-Pentanone	0.539	0.553	10.255	10	3
Toluene	1.207	1.227	10.165	10	2
Octane	0.593	0.599	10.110	10	1
trans-1,3-Dichloropropene	0.466	0.489	10.504	10	5
Ethyl Methacrylate	0.501	0.537	10.714	10	7
1,1,2-Trichloroethane	0.403	0.426	10.556	10	6
Tetrachloroethene	0.711	0.765	10.773	10	8
2-Hexanone	0.508	0.518	10.198	10	2
Dibromochloromethane	0.525	0.572	10.901	10	9
1,2-Dibromoethane	0.632	0.668	10.574	10	6
Chlorobenzene	1.035	1.059	10.230	10	2
1,1,1,2-Tetrachloroethane	0.520	0.573	11.023	10	10
Ethylbenzene	1.547	1.598	10.330	10	3
m/p-Xylene	1.222	1.254	10.261	10	3
o-Xylene	1.184	1.205	10.179	10	2
Styrene	0.896	0.915	10.211	10	2
Bromoform	0.664	0.710	10.692	10	7
Cumene	1.666	1.713	10.282	10	3
Bromobenzene	0.638	0.646	10.123	10	1
1,1,2,2-Tetrachloroethane	0.781	0.769	9.841	10	-2
1,2,3-Trichloropropane	0.261	0.264	10.123	10	1
n-Propylbenzene	0.509	0.513	10.075	10	1

* Maximum %DRIFT = 30%.
# Average RRF for all compounds must be greater than 0.010.

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FORM 07
VOLATILE ORGANICS IN AIR
CONTINUING CALIBRATION CHECK

SDG No.:

Lab File ID: ed00091.d

Calibration Date: 04/06/2017

Instrument ID: 22820

Calibration Time: 13:14

Init. Calib. Date(s): 04/03/2017 - 04/04/2017

COMPOUND	$\overline{RRF}$	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
2-Chlorotoluene	0.458	0.460	10.030	10	0
4-Ethyltoluene	1.645	1.703	10.351	10	4
1,3,5-Trimethylbenzene	1.367	1.353	9.895	10	-1
Alpha Methyl Styrene	0.651	0.654	10.042	10	0
tert-Butylbenzene	1.347	1.379	10.236	10	2
1,2,4-Trimethylbenzene	1.294	1.324	10.235	10	2
sec-Butylbenzene	1.896	1.937	10.215	10	2
1,3-Dichlorobenzene	0.979	0.983	10.047	10	0
1,4-Dichlorobenzene	0.993	0.969	9.758	10	-2
p-Isopropyltoluene	1.610	1.636	10.161	10	2
Benzyl Chloride	0.855	0.886	10.361	10	4
1,2-Dichlorobenzene	0.883	0.870	9.847	10	-2
n-Butylbenzene	1.335	1.322	9.907	10	-1
Hexachloroethane	0.376	0.420	11.176	10	12
1,2-Dibromo-3-chloropropane	0.345	0.330	9.545	10	-5
1,2,4-Trichlorobenzene	0.530	0.460	8.681	10	-13
Hexachlorobutadiene	0.476	0.424	8.915	10	-11
Naphthalene	0.961	0.814	8.473	10	-15

* Maximum %DRIFT = 30%.
# Average RRF for all compounds must be greater than 0.010.

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP22820.i/17mar30.b/ec00847.d
/chem/HP22820.i/17mar30.b/ec00848.d
/chem/HP22820.i/17mar30.b/ec00849.d
/chem/HP22820.i/17mar30.b/ec00850.d
/chem/HP22820.i/17mar30.b/ec00851.d
/chem/HP22820.i/17mar30.b/ec00852.d

** ICAL Area and RT are the average from the above standards.

Current Continuing Calibration Standard:

/chem/HP22820.i/17apr06.b/ed00091.d

Area Summary

Internal Standard Name	File ID: ed00091.d	ICAL Area	Low Limit	High Limit	In Spec
Bromochloromethane	220438	245924	147554	344294	Yes
1,4-Difluorobenzene	830640	923403	554042	1292764	Yes
Chlorobenzene-d5	813643	904857	542914	1266800	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

Internal Standard Name	File ID: ed00091.d	ICAL RT	In Spec
Bromochloromethane	5.467	5.468	Yes
1,4-Difluorobenzene	6.298	6.297	Yes
Chlorobenzene-d5	8.497	8.497	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced ICAL average.

Comments:_____

_____

Report generated on 04/06/2017 at 01:33

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FORM 08
VOLATILE ORGANICS IN AIR
INSTRUMENT STANDARD AREA AND RETENTION TIME SUMMARY

SDG No.:

Lab Sample ID: VSTD010 Analyzed Date: 04/06/2017

Lab File ID: ed00091.d Analyzed Time: 13:14

Instrument ID: 22820

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	220438	5.47	830640	6.30	813643	8.50
UPPER LIMIT	308613	5.80	1162896	6.63	1139100	8.83
LOWER LIMIT	132263	5.14	498384	5.97	488186	8.17
LAB SAMPLE ID						
VBLKE55	215370	5.47	817871	6.30	800185	8.50
LCSE55	211806	5.47	809076	6.30	796585	8.50
LCSDE55	216312	5.47	807952	6.30	778046	8.50
8906225	196351	5.47	753946	6.30	745931	8.50
8906226	195572	5.47	753520	6.30	750091	8.50
8906227	191385	5.47	751679	6.29	744459	8.50
8906228	184187	5.47	713903	6.30	704464	8.50
8906229	195585	5.47	752750	6.30	747292	8.50
8906230	197578	5.47	747228	6.30	736999	8.50
8906231	196703	5.47	758872	6.30	746698	8.50
8906232	192343	5.47	752080	6.30	743521	8.50
8906232	190363	5.47	749685	6.30	734933	8.50
8906384	200958	5.46	756007	6.29	732552	8.50
cc980	198662	5.47	751789	6.30	735720	8.50

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.

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FORM 09
VOLATILE ORGANICS IN AIR
DUPLICATE SAMPLE RECOVERY

SDG No.:

Instrument ID: 22820 Method: EPA TO-15

Batch: E1709630A

BKG Lab Sample ID(s): 8906232 BKG Injected: 04/07/2017

DUP Lab Sample ID(s): 8906232 DUP Injected: 04/07/2017

BKG File ID(s): ed00114.d

DUP File ID(s): ed00115.d

Concentration Units: ppb(v) Limt: MDL

COMPOUND	BKG CONC.	Q	DUP CONC.	Q	RPD	RPD MAX	IN SPEC
Dichlorodifluoromethane	0.83	J	0.84	J	1	25	YES
Chlorodifluoromethane	0.20	U	0.20	U		25	YES
Freon 114	0.20	U	0.20	U		25	YES
Chloromethane	0.20	U	0.20	U		25	YES
Vinyl Chloride	0.20	U	0.20	U		25	YES
1,3-Butadiene	0.40	U	0.40	U		25	YES
Bromomethane	0.20	U	0.20	U		25	YES
Chloroethane	0.20	U	0.20	U		25	YES
Dichlorofluoromethane	0.20	U	0.20	U		25	YES
Trichlorofluoromethane	0.49	J	0.53	J	8	25	YES
Pentane	0.20	U	0.30	J	61	25	NO
1,1-Dichloroethene	0.20	U	0.20	U		25	YES
Freon 113	0.50	U	0.50	U		25	YES
Acetone	20		20		0	25	YES
Carbon Disulfide	0.50	U	0.50	U		25	YES
3-Chloropropene	0.20	U	0.20	U		25	YES
Methylene Chloride	0.20	U	0.20	U		25	YES
trans-1,2-Dichloroethene	0.20	U	0.20	U		25	YES
Methyl t-Butyl Ether	0.20	U	0.20	U		25	YES
Hexane	0.20	U	0.20	U		25	YES
1,1-Dichloroethane	0.20	U	0.20	U		25	YES
cis-1,2-Dichloroethene	0.20	U	0.20	U		25	YES
2-Butanone	3.6		3.6		0	25	YES
Chloroform	0.20	U	0.20	U		25	YES
1,1,1-Trichloroethane	0.20	U	0.20	U		25	YES
Carbon Tetrachloride	0.20	U	0.20	U		25	YES
Benzene	0.20	U	0.20	U		25	YES

COMMENTS:

_____

_____

Abbreviations:
BKG = Background sample
DUP = Duplicate sample
D = Analysis of diluted sample.
U = The compound is less than the limit being reported
J = The result is between the MDL and LOQ

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FORM 09
VOLATILE ORGANICS IN AIR
DUPLICATE SAMPLE RECOVERY

SDG No.:

Instrument ID: 22820 Method: EPA TO-15

Batch: E1709630A

BKG Lab Sample ID(s): 8906232 BKG Injected: 04/07/2017

DUP Lab Sample ID(s): 8906232 DUP Injected: 04/07/2017

BKG File ID(s): ed00114.d

DUP File ID(s): ed00115.d

Concentration Units: ppb(v) Limt: MDL

COMPOUND	BKG CONC.	Q	DUP CONC.	Q	RPD	RPD MAX	IN SPEC
1,2-Dichloroethane	0.20	U	0.20	U		25	YES
Isooctane	0.20	U	0.20	U		25	YES
Heptane	0.20	U	0.20	U		25	YES
Trichloroethene	0.20	U	0.20	U		25	YES
1,2-Dichloropropane	0.20	U	0.20	U		25	YES
Dibromomethane	0.20	U	0.20	U		25	YES
Bromodichloromethane	0.20	U	0.20	U		25	YES
cis-1,3-Dichloropropene	0.20	U	0.20	U		25	YES
4-Methyl-2-Pentanone	0.50	U	0.50	U		25	YES
Toluene	0.37	J	0.37	J	0	25	YES
Octane	0.20	J	0.20	U	22	25	YES
trans-1,3-Dichloropropene	0.20	U	0.20	U		25	YES
1,1,2-Trichloroethane	0.20	U	0.20	U		25	YES
Tetrachloroethene	1.8		1.9		5	25	YES
2-Hexanone	0.55	J	0.61	J	10	25	YES
Dibromochloromethane	0.20	U	0.20	U		25	YES
1,2-Dibromoethane	0.20	U	0.20	U		25	YES
Chlorobenzene	0.20	U	0.20	U		25	YES
1,1,1,2-Tetrachloroethane	0.20	U	0.20	U		25	YES
Ethylbenzene	0.20	U	0.20	U		25	YES
m/p-Xylene	0.20	J	0.20	J	0	25	YES
o-Xylene	0.20	U	0.20	U		25	YES
Styrene	0.20	U	0.20	U		25	YES
Bromoform	0.20	U	0.20	U		25	YES
Cumene	0.20	U	0.20	U		25	YES
Bromobenzene	0.20	U	0.20	U		25	YES
1,1,2,2-Tetrachloroethane	0.20	U	0.20	U		25	YES

COMMENTS:

_____

_____

Abbreviations:
BKG = Background sample
DUP = Duplicate sample
D = Analysis of diluted sample.
U = The compound is less than the limit being reported
J = The result is between the MDL and LOQ

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FORM 09
VOLATILE ORGANICS IN AIR
DUPLICATE SAMPLE RECOVERY

SDG No.:

Instrument ID: 22820 Method: EPA TO-15

Batch: E1709630A

BKG Lab Sample ID(s): 8906232 BKG Injected: 04/07/2017

DUP Lab Sample ID(s): 8906232 DUP Injected: 04/07/2017

BKG File ID(s): ed00114.d

DUP File ID(s): ed00115.d

Concentration Units: ppb(v) Limt: MDL

COMPOUND	BKG CONC.	Q	DUP CONC.	Q	RPD	RPD MAX	IN SPEC
1,2,3-Trichloropropane	0.20	U	0.20	U		25	YES
4-Ethyltoluene	0.20	U	0.20	U		25	YES
1,3,5-Trimethylbenzene	0.20	U	0.20	U		25	YES
1,2,4-Trimethylbenzene	0.20	U	0.20	U		25	YES
1,3-Dichlorobenzene	0.20	U	0.20	U		25	YES
1,4-Dichlorobenzene	0.20	U	0.20	U		25	YES
1,2-Dichlorobenzene	0.20	U	0.20	U		25	YES
Hexachloroethane	0.20	U	0.20	U		25	YES

COMMENTS:

Abbreviations:
BKG = Background sample
DUP = Duplicate sample
D = Analysis of diluted sample.
U = The compound is less than the limit being reported
J = The result is between the MDL and LOQ

Sample Data

Volatile Organics in Air by GC/MS

Fraction: Volatile Organics in Air by GC/MS

05298: TO 15 VOA Ext. List Analyte Name	Default MDL	Default LOQ	Units
Dichlorodifluoromethane	0.99	4.9	ug/m3
Chlorodifluoromethane	0.71	3.5	ug/m3
Freon 114	1.4	7.0	ug/m3
Chloromethane	0.41	2.1	ug/m3
Vinyl Chloride	0.51	2.6	ug/m3
1,3-Butadiene	0.88	4.4	ug/m3
Bromomethane	1.9	3.9	ug/m3
Chloroethane	0.53	2.6	ug/m3
Dichlorofluoromethane	0.84	4.2	ug/m3
Trichlorofluoromethane	1.1	5.6	ug/m3
Pentane	1.5	3.0	ug/m3
1,1-Dichloroethene	0.79	4.0	ug/m3
Freon 113	3.8	15	ug/m3
Acetone	1.2	4.8	ug/m3
Carbon Disulfide	1.6	3.1	ug/m3
3-Chloropropene	0.63	3.1	ug/m3
Methylene Chloride	0.69	3.5	ug/m3
trans-1,2-Dichloroethene	0.79	4.0	ug/m3
Methyl t-Butyl Ether	0.72	3.6	ug/m3
Hexane	0.70	3.5	ug/m3
1,1-Dichloroethane	0.81	4.0	ug/m3
cis-1,2-Dichloroethene	0.79	4.0	ug/m3
2-Butanone	1.5	5.9	ug/m3
Chloroform	0.98	4.9	ug/m3
1,1,1-Trichloroethane	1.1	5.5	ug/m3
Carbon Tetrachloride	1.3	6.3	ug/m3
1,2-Dichloroethane	0.81	4.0	ug/m3
Benzene	0.64	3.2	ug/m3
Isooctane	0.93	4.7	ug/m3
Heptane	2.0	4.1	ug/m3
Trichloroethene	1.1	5.4	ug/m3
1,2-Dichloropropane	0.92	4.6	ug/m3
Dibromomethane	1.4	7.1	ug/m3
Bromodichloromethane	1.3	6.7	ug/m3
cis-1,3-Dichloropropene	0.91	4.5	ug/m3
4-Methyl-2-pentanone	2.0	8.2	ug/m3
Toluene	0.75	3.8	ug/m3
Octane	2.3	4.7	ug/m3
trans-1,3-Dichloropropene	0.91	4.5	ug/m3
1,1,2-Trichloroethane	1.1	5.5	ug/m3
Tetrachloroethene	1.4	6.8	ug/m3
2-Hexanone	2.0	8.2	ug/m3
Dibromochloromethane	1.7	8.5	ug/m3
1,2-Dibromoethane	1.5	7.7	ug/m3
Chlorobenzene	0.92	4.6	ug/m3
1,1,1,2-Tetrachloroethane	1.4	6.9	ug/m3
Ethylbenzene	0.87	4.3	ug/m3

Fraction: Volatile Organics in Air by GC/MS

05298: TO 15 VOA Ext. List Analyte Name	Default MDL	Default LOQ	Units
m/p-Xylene	0.87	4.3	ug/m3
o-Xylene	0.87	4.3	ug/m3
Styrene	0.85	4.3	ug/m3
Bromoform	2.1	10	ug/m3
Cumene	0.98	4.9	ug/m3
1,1,2,2-Tetrachloroethane	1.4	6.9	ug/m3
1,2,3-Trichloropropane	1.2	6.0	ug/m3
Bromobenzene	1.3	6.4	ug/m3
4-Ethyltoluene	0.98	4.9	ug/m3
1,3,5-Trimethylbenzene	0.98	4.9	ug/m3
1,2,4-Trimethylbenzene	0.98	4.9	ug/m3
1,3-Dichlorobenzene	1.2	6.0	ug/m3
1,4-Dichlorobenzene	1.2	6.0	ug/m3
1,2-Dichlorobenzene	1.2	6.0	ug/m3
Hexachloroethane	4.8	19	ug/m3

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906225
Canister ID:	1261	Lab File ID:	ed00107.d
Pressure Received:	24.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.3 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	22:22
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	3.2	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	2.9	J
109-66-0	Pentane	0.84	J
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	34	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	29	
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906225
Canister ID:	1261	Lab File ID:	ed00107.d
Pressure Received:	24.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.3 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	22:22
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	1.0	J
111-65-9	Octane	2.7	J
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	1.6	J
591-78-6	2-Hexanone	5.3	J
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.88	J

Abbreviations:
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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906225
Canister ID:	1261	Lab File ID:	ed00107.d
Pressure Received:	24.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.3 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	22:22
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

DKCAF

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906225

Data file: /chem/HP22820.i/17apr06.b/ed00107.d Injection date and time: **06-APR-2017 22:22**
Data file Sample Info. Line: 8906225;400;E1709630AA;DKCAF;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 24.7 psia Canister Pressure before dilution (Ya): 12.3 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	196351 (-11)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	753946 (-9)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	745931 (-8)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.649(-0.000)	85	31887	0.645	0.64		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.774(-0.000)	101	27057	0.509	0.51		J	0.2	1
13) Pentane	(1)	2.867(0.000)	43	7891	0.284	0.28		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.533(0.000)	43	321807	14.433	14.43			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	99580	9.756	9.76			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	7.466(-0.000)	91	24747	0.275	0.27		J	0.2	1
62) Octane	(3)	7.494(0.002)	43	25206M	0.570	0.57		J	0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	7.874(-0.000)	166	12264	0.231	0.23		J	0.2	1
68) 2-Hexanone	(3)	7.946(-0.000)	43	49017	1.293	1.29		J	0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00107.d Injection date and time: **06-APR-2017 22:22**
Data file Sample Info. Line: 8906225;400;E1709630AA;DKCAF;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 24.7 psia Canister Pressure before dilution (Ya): 12.3 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

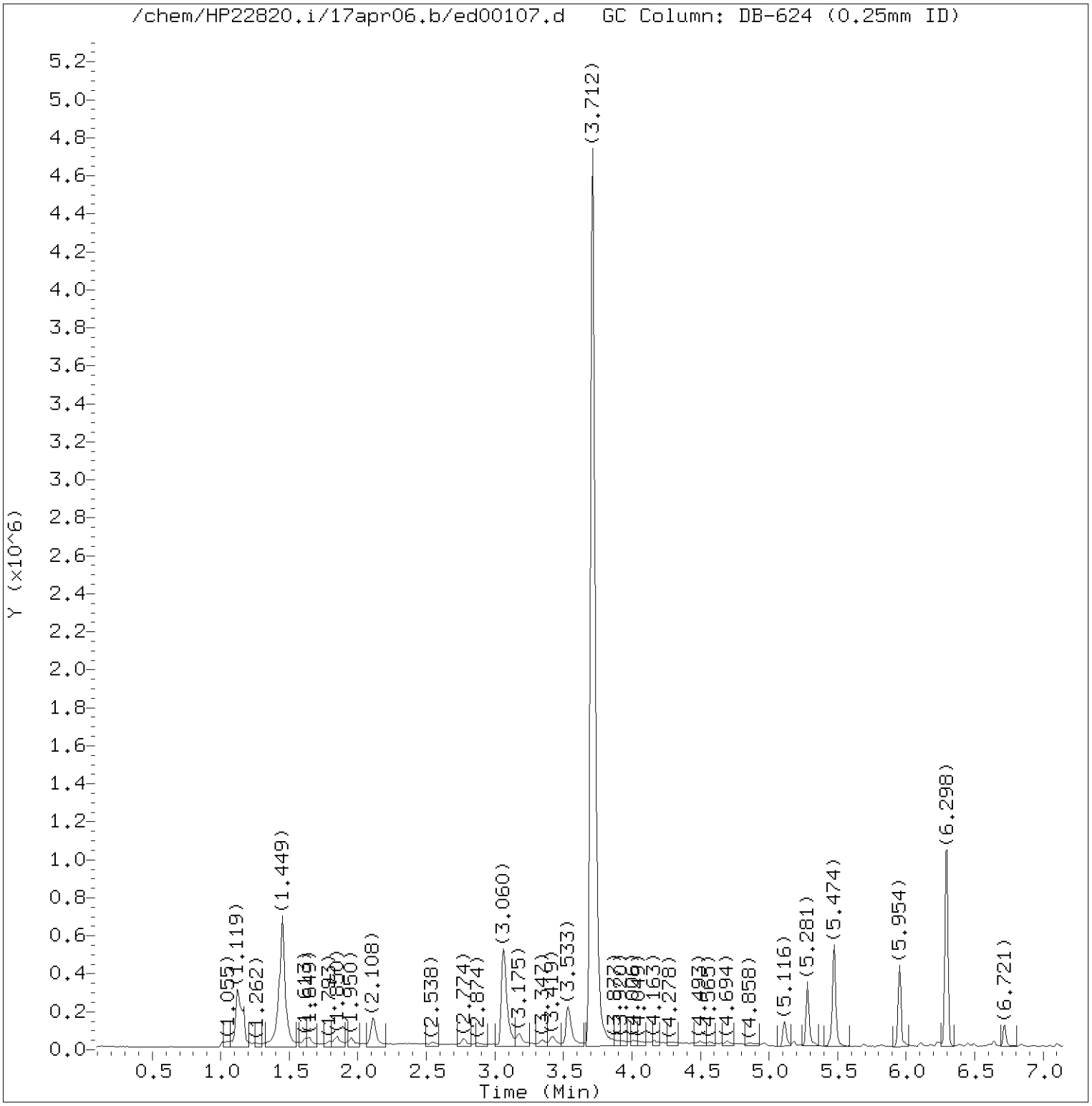
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)			Not Detected					0.2	1
75) m/p-Xylene	(3)	8.669(0.000)	91	18529M	0.203	0.20		J	0.2	1
76) o-Xylene	(3)			Not Detected					0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)			Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

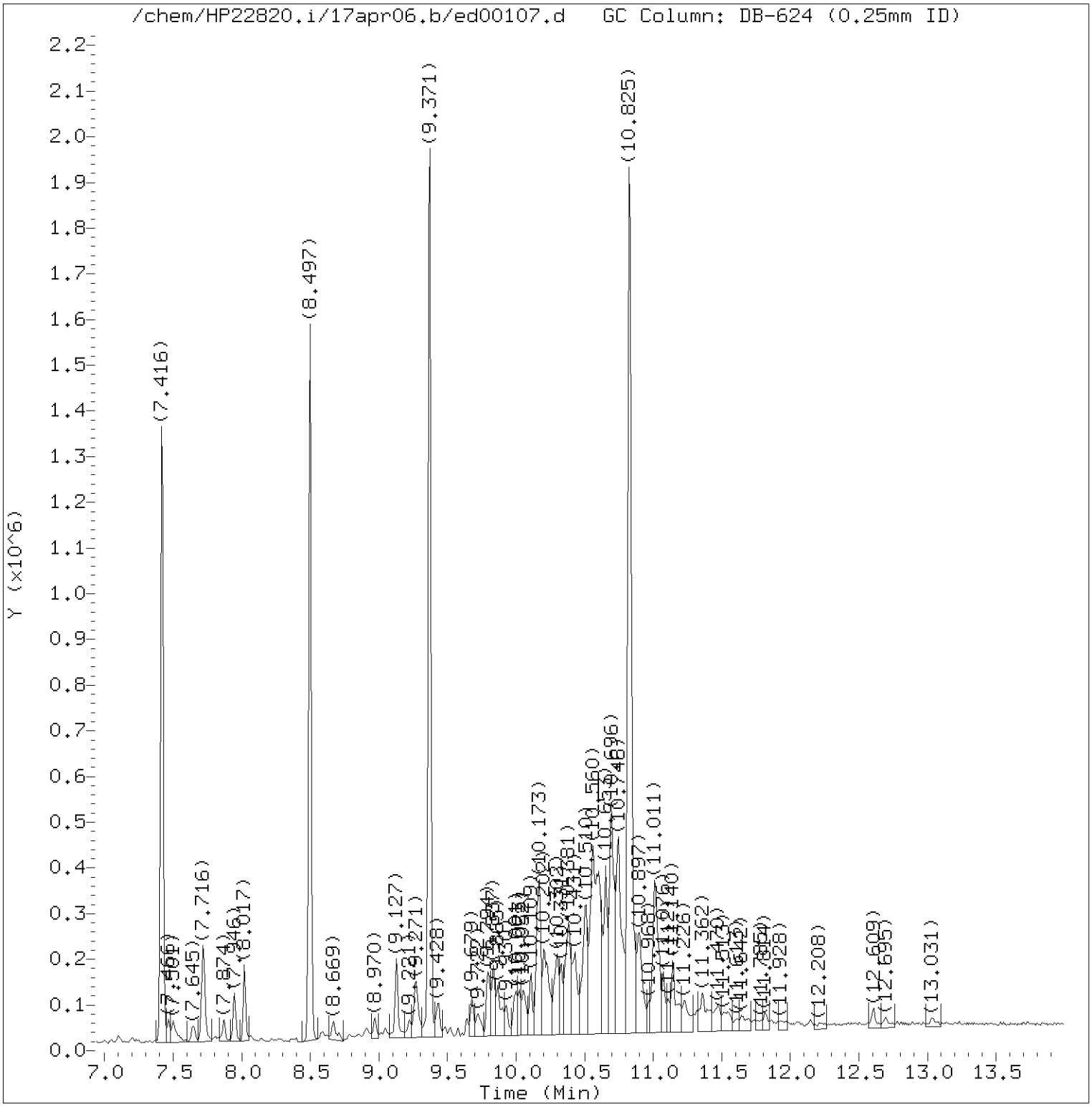
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Sample Name: DKCAF Lab Sample ID: 8906225

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Sample Name: DKCAF Lab Sample ID: 8906225

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

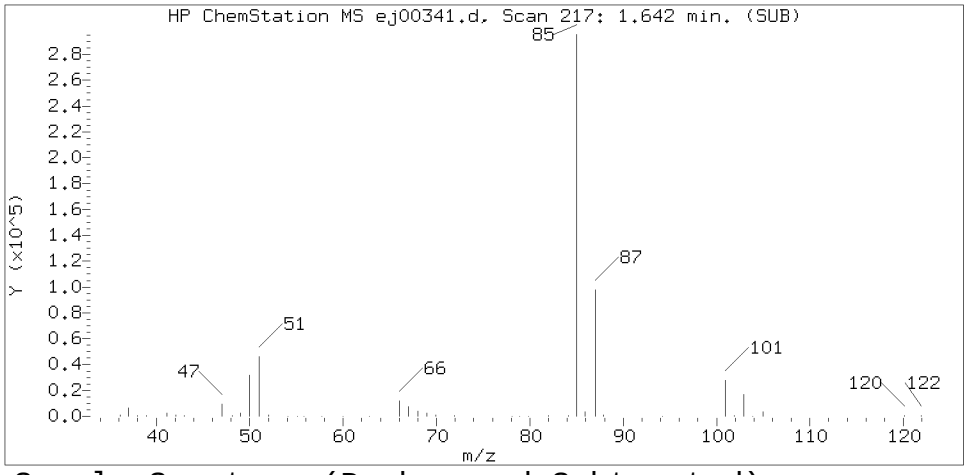
Sample Name: DKCAF Lab Sample ID: 8906225

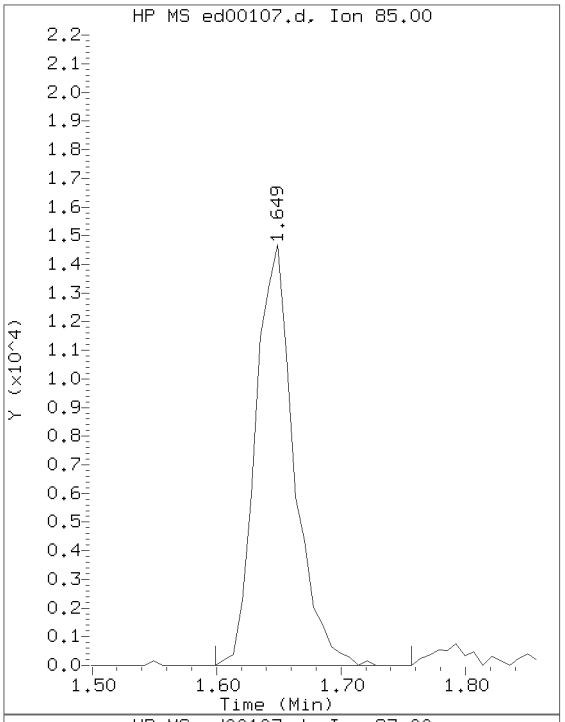
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.649	85	31887	0.645
12) Trichlorofluoromethane	(1)	2.774	101	27057	0.509
13) Pentane	(1)	2.867	43	7891	0.284
19) Acetone	(1)	3.533	43	321807	14.433
37) 2-Butanone	(1)	5.281	72	99580	9.756
40)*Bromochloromethane	(1)	5.474	130	196351	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	753946	10.000
61) Toluene	(3)	7.466	91	24747	0.275
62) Octane	(3)	7.494	43	25206M	0.570
67) Tetrachloroethene	(3)	7.874	166	12264	0.231
68) 2-Hexanone	(3)	7.946	43	49017	1.293
71)*Chlorobenzene-d5	(3)	8.497	117	745931	10.000
75) m/p-Xylene	(3)	8.669	91	18529M	0.203

M = Compound was manually integrated.
* = Compound is an internal standard.

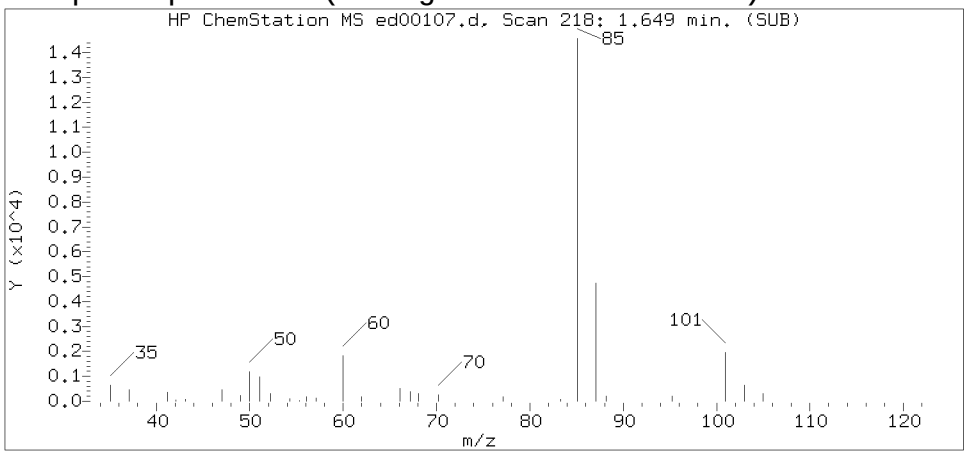
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

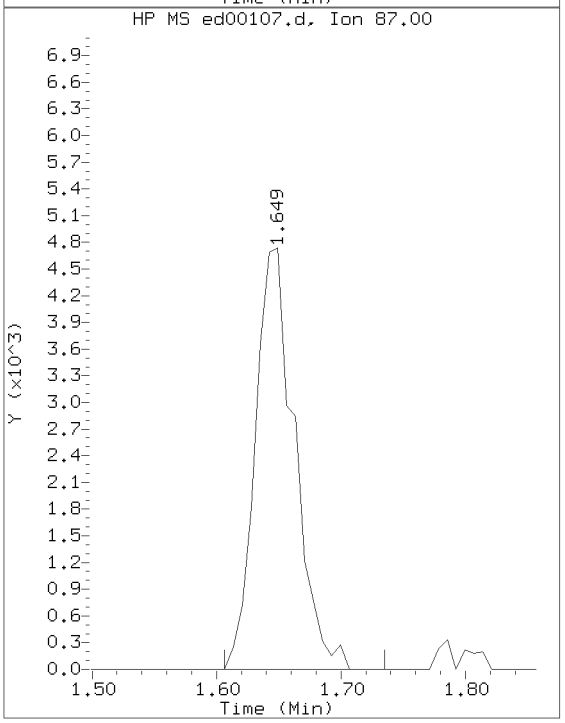
Reference Standard Spectrum for Dichlorodifluoromethane



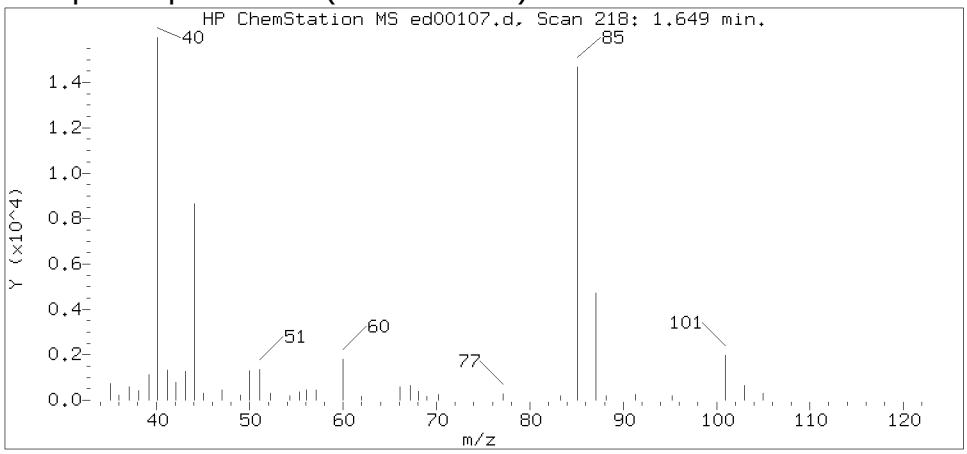


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

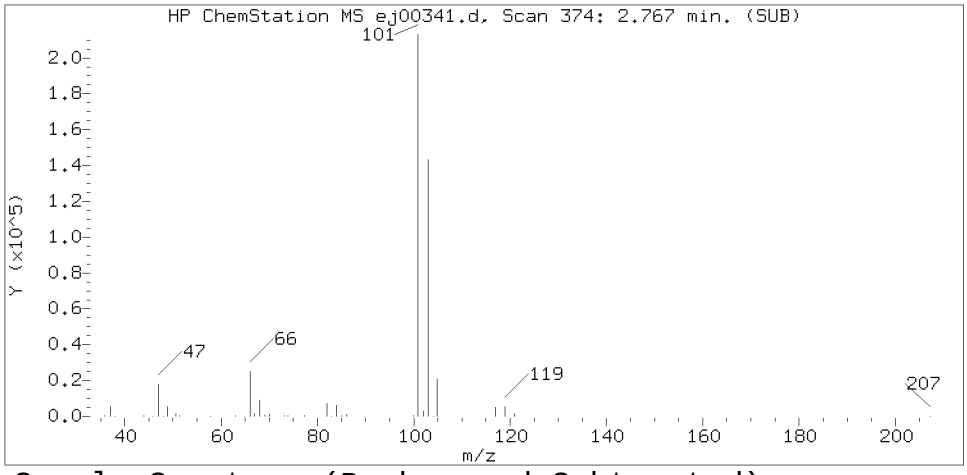
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

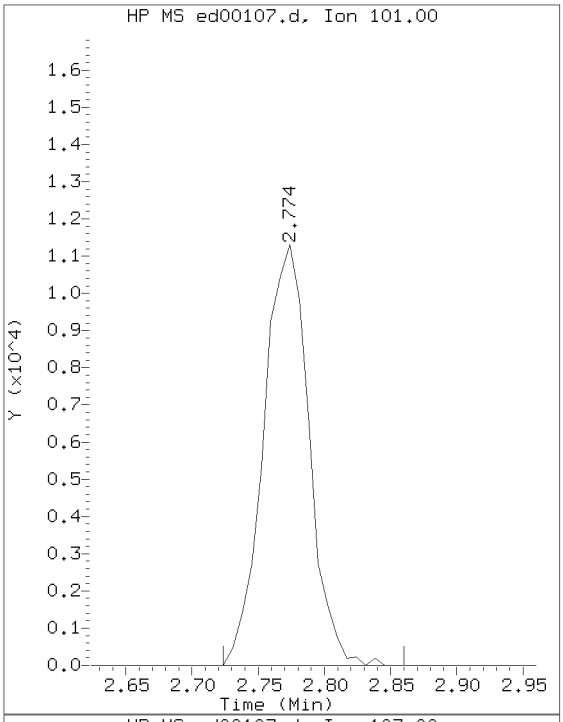
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number	: 2
Compound Name	: Dichlorodifluoromethane
Scan Number	: 218
Retention Time (minutes)	: 1.649
Relative Retention Time	:-0.00093
Quant Ion	: 85.00
Area (flag)	: 31887
Concentration (ppb(v))	: 0.6449

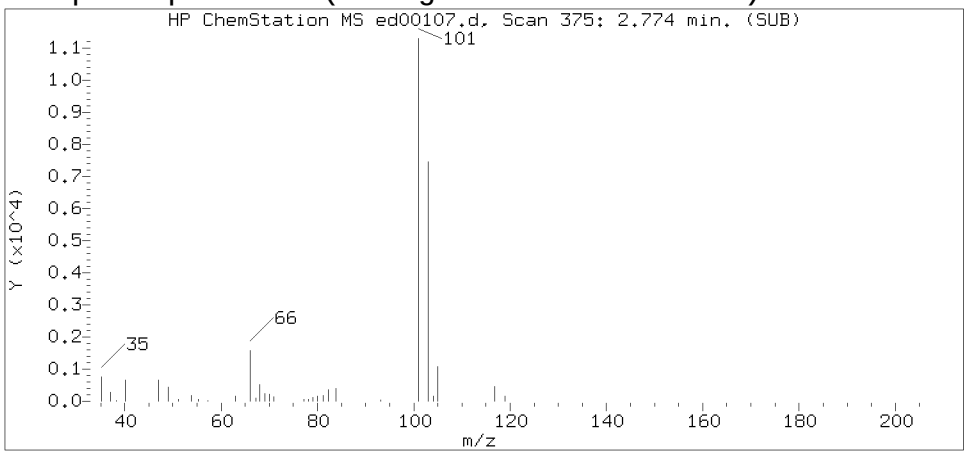
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

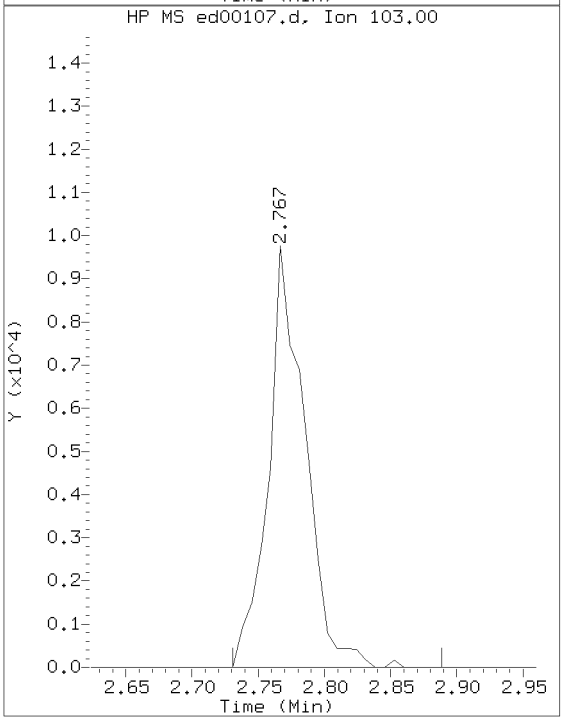
Reference Standard Spectrum for Trichlorofluoromethane



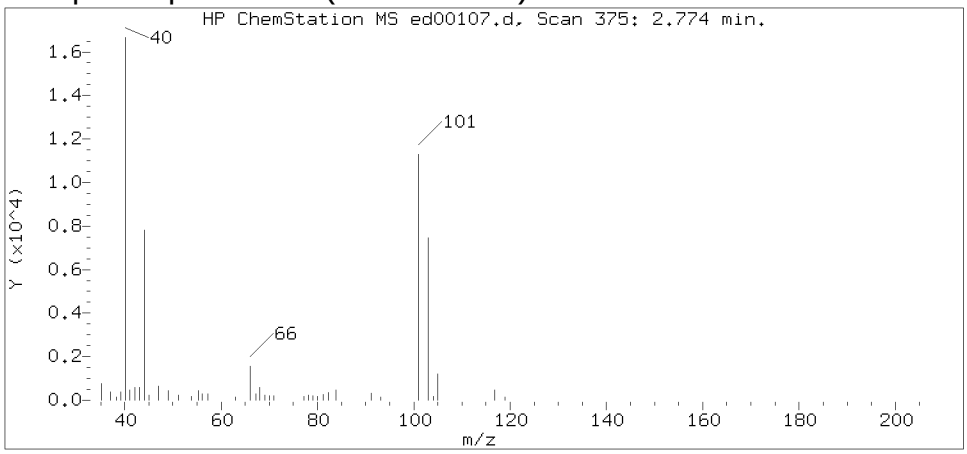


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

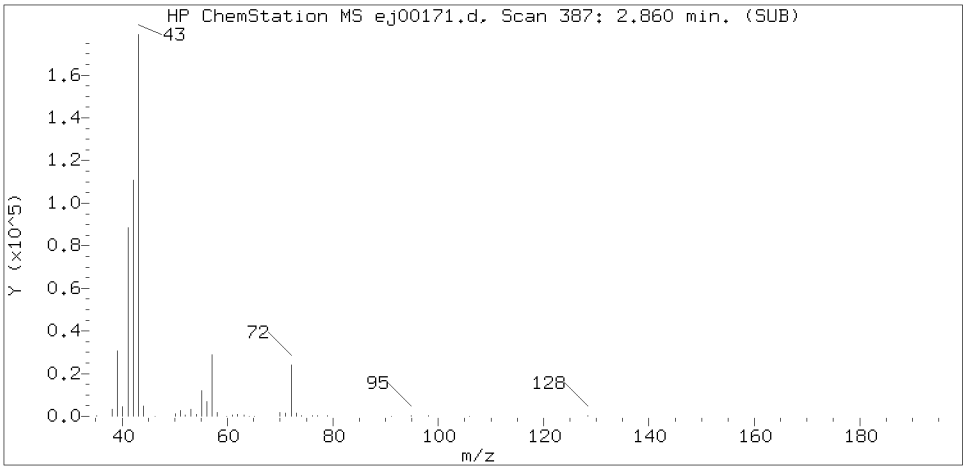
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

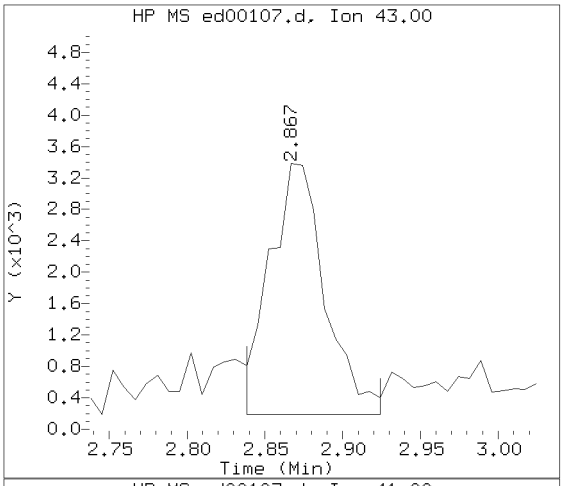
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 375
Retention Time (minutes): 2.774
Relative Retention Time :-0.00065
Quant Ion : 101.00
Area (flag) : 27057
Concentration (ppb(v)) : 0.5086

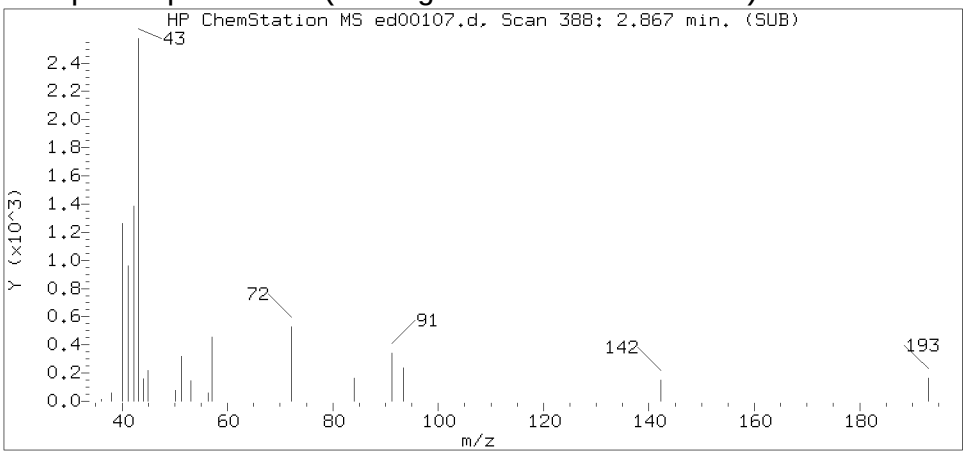
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

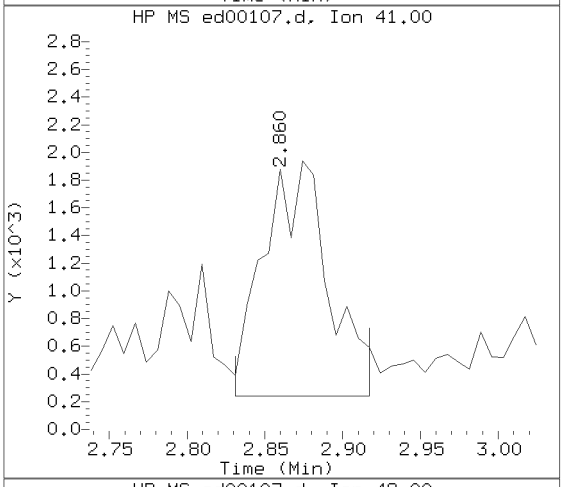
Reference Standard Spectrum for Pentane



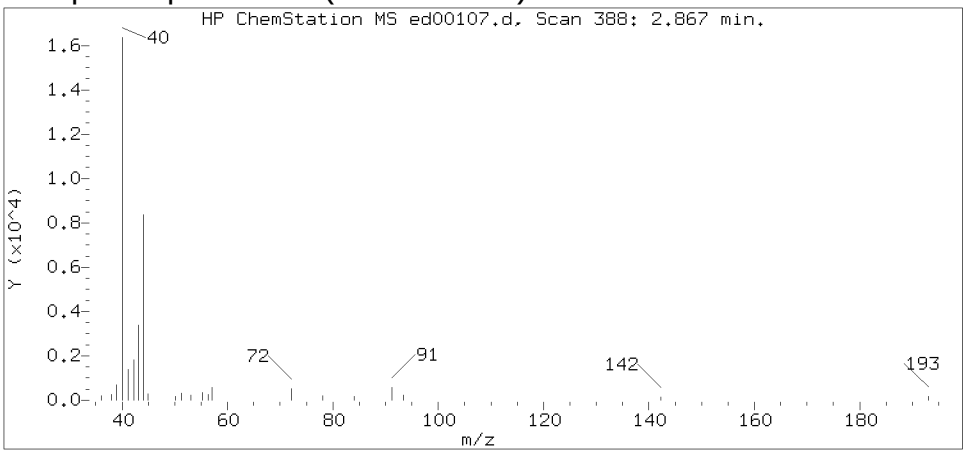


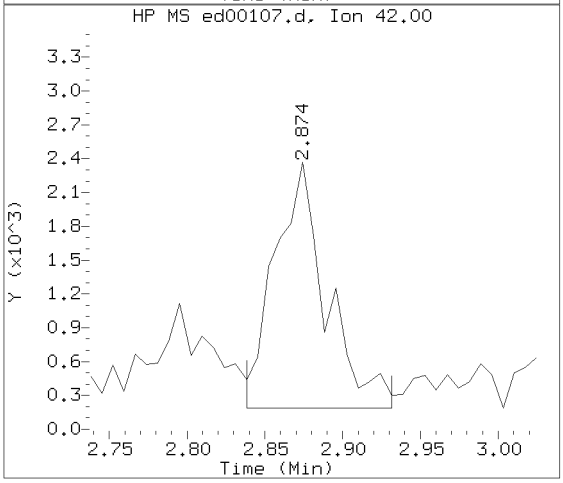
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

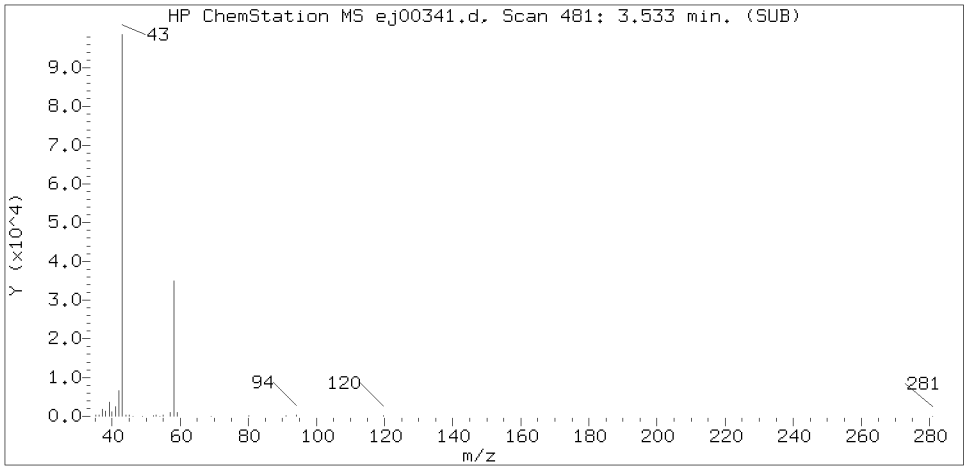
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

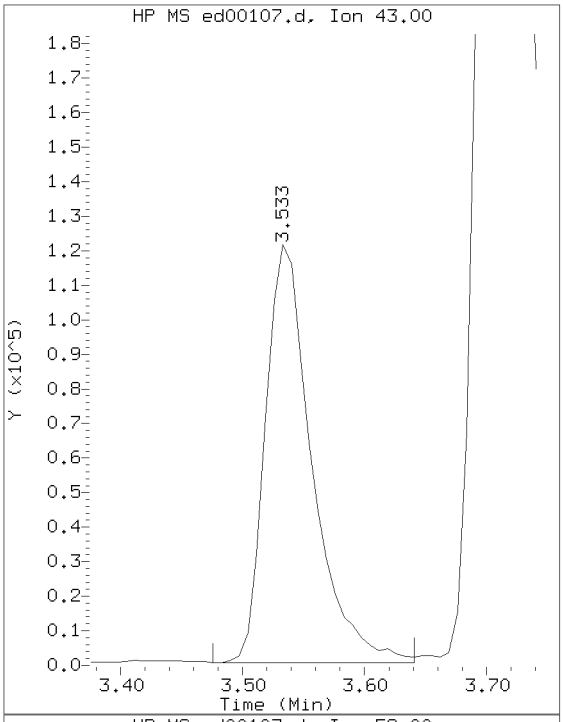
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 13
Compound Name : Pentane
Scan Number : 388
Retention Time (minutes): 2.867
Relative Retention Time : 0.00068
Quant Ion : 43.00
Area (flag) : 7891
Concentration (ppb(v)) : 0.2837

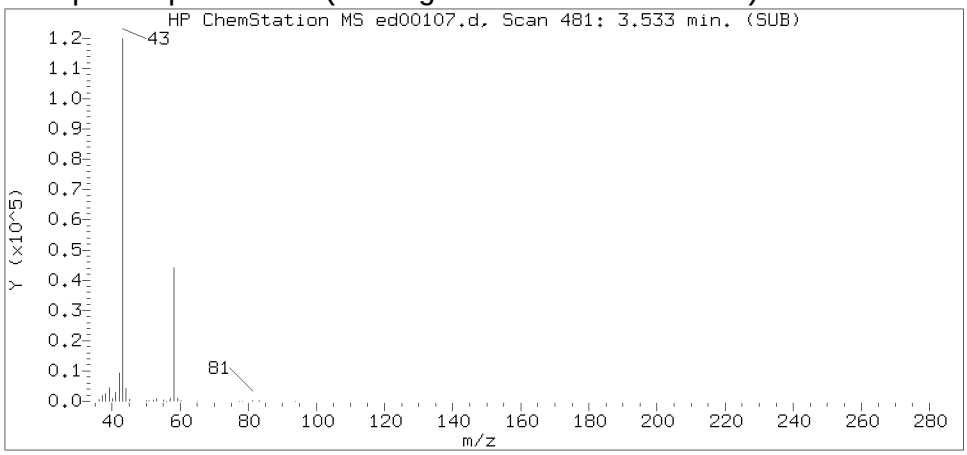
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

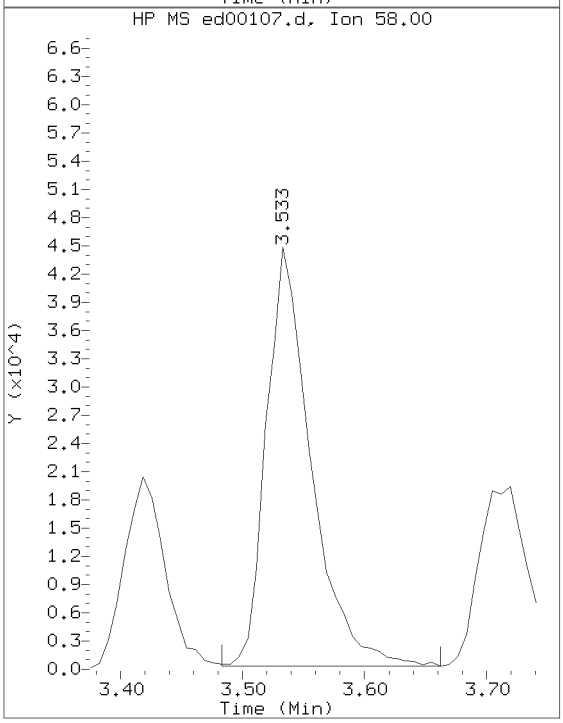
Reference Standard Spectrum for Acetone



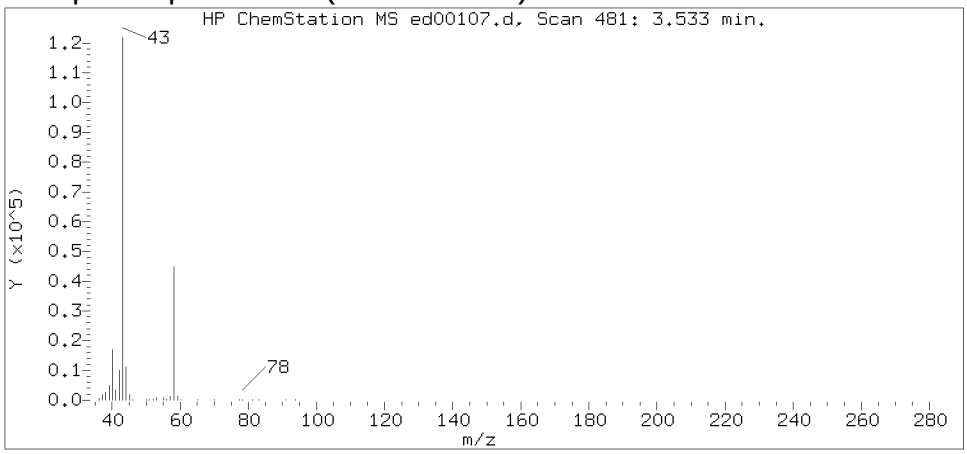


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

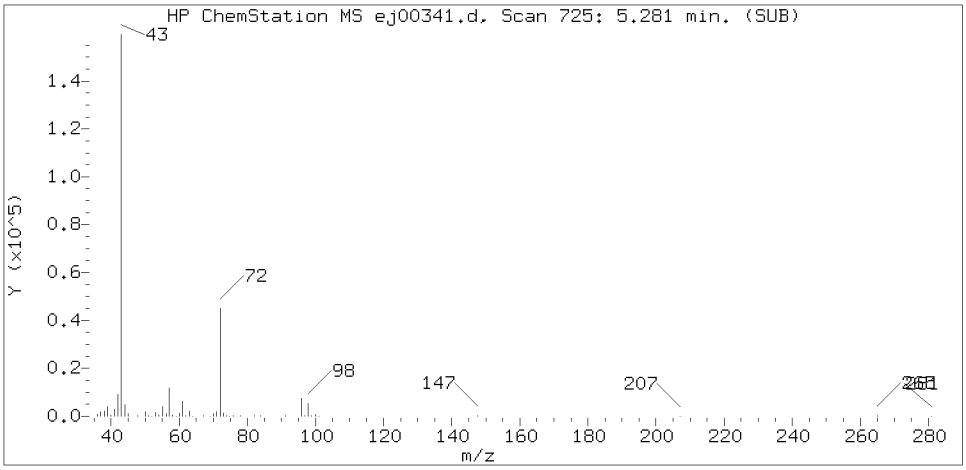
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

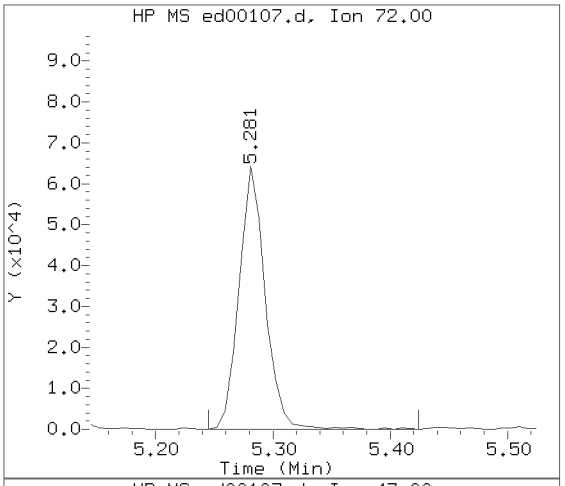
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number	: 19
Compound Name	: Acetone
Scan Number	: 481
Retention Time (minutes)	: 3.533
Relative Retention Time	: 0.00084
Quant Ion	: 43.00
Area (flag)	: 321807
Concentration (ppb(v))	: 14.4333

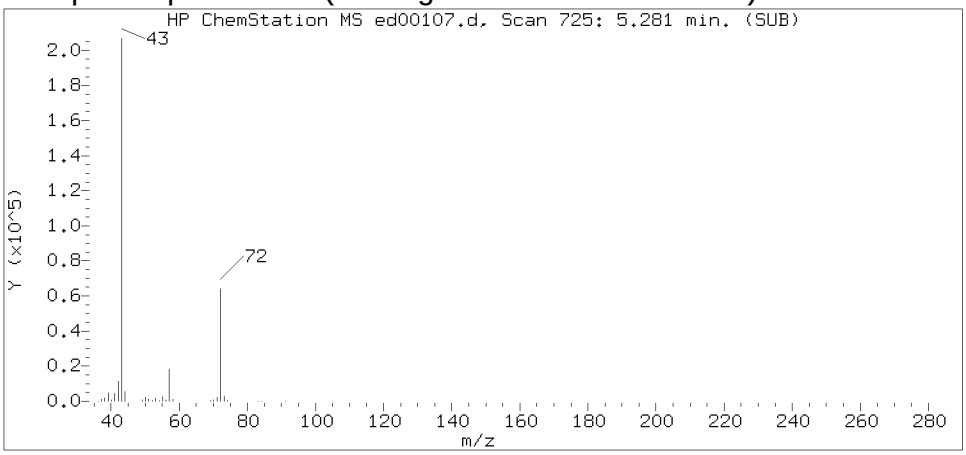
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

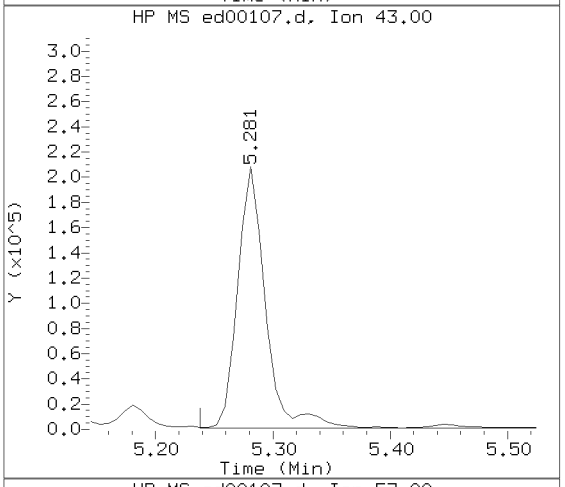
Reference Standard Spectrum for 2-Butanone



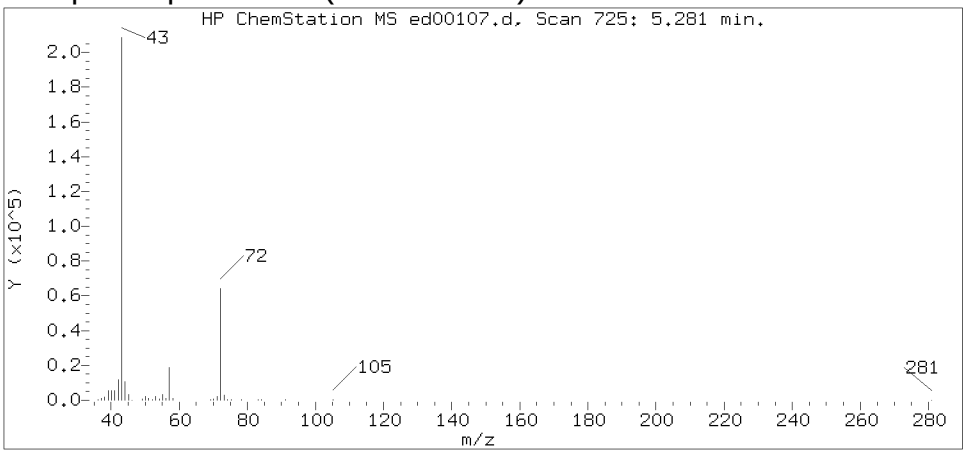


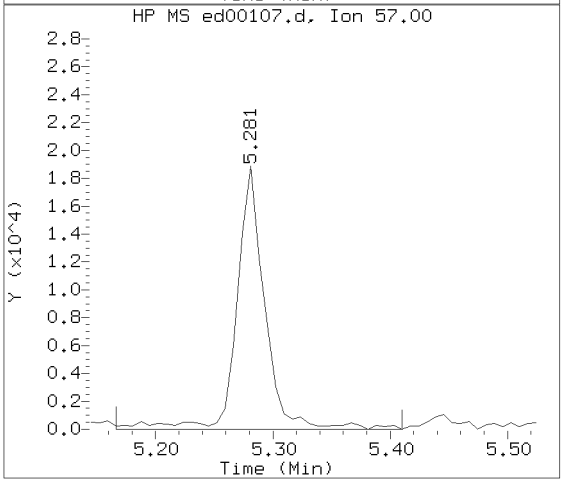
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

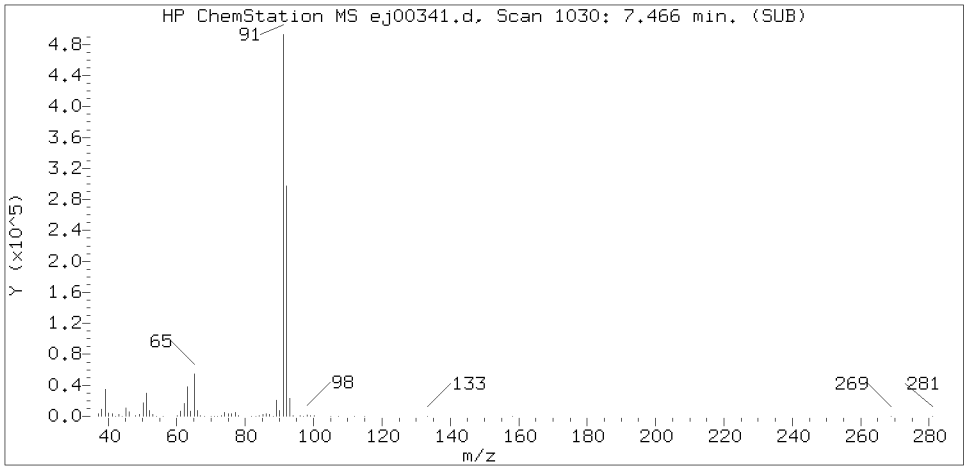
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

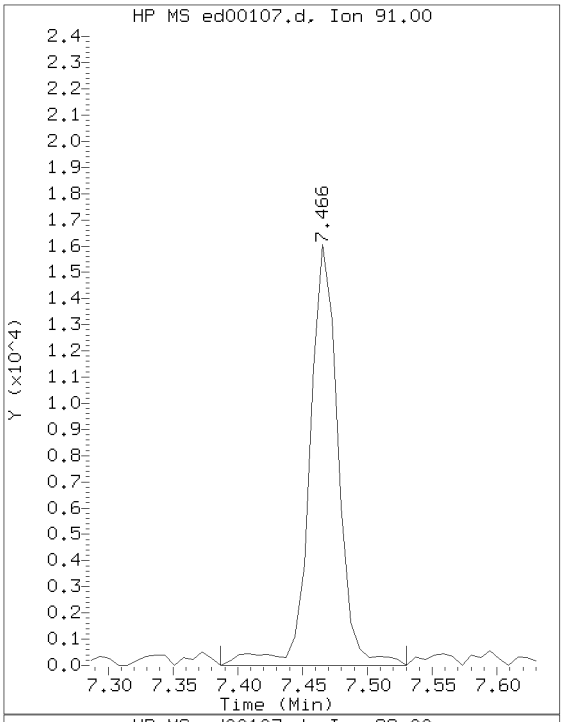
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00126
Quant Ion : 72.00
Area (flag) : 99580
Concentration (ppb(v)) : 9.7564

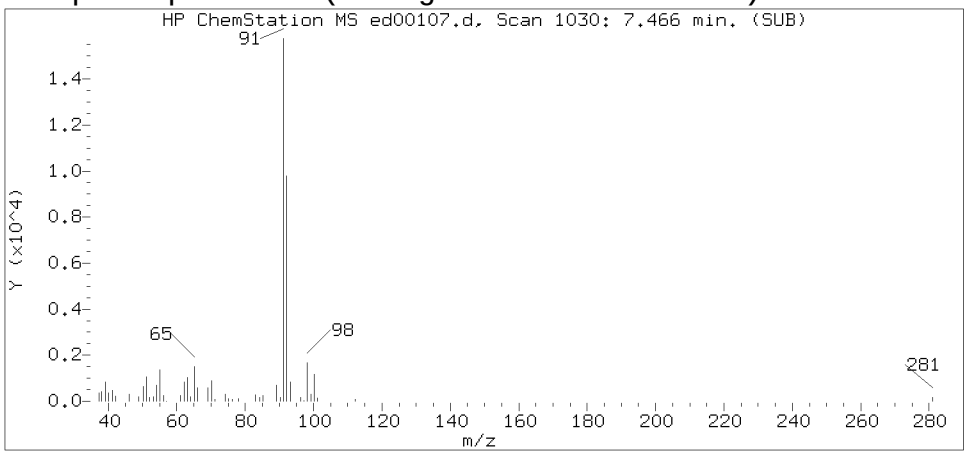
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

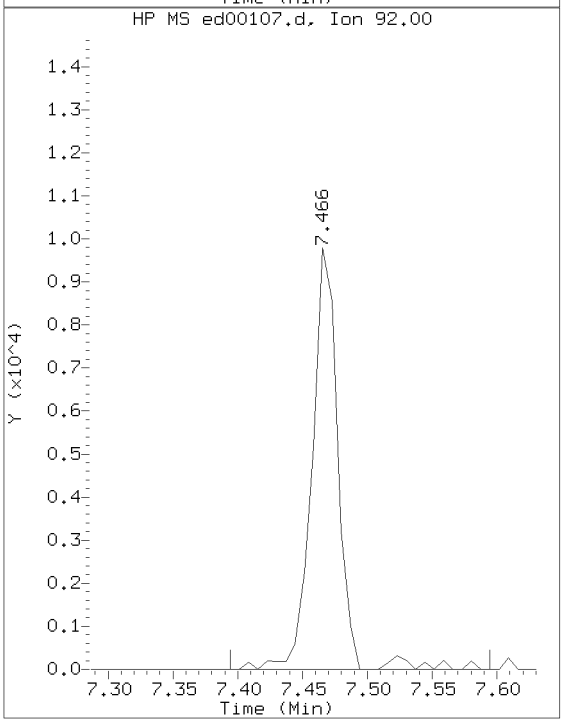
Reference Standard Spectrum for Toluene



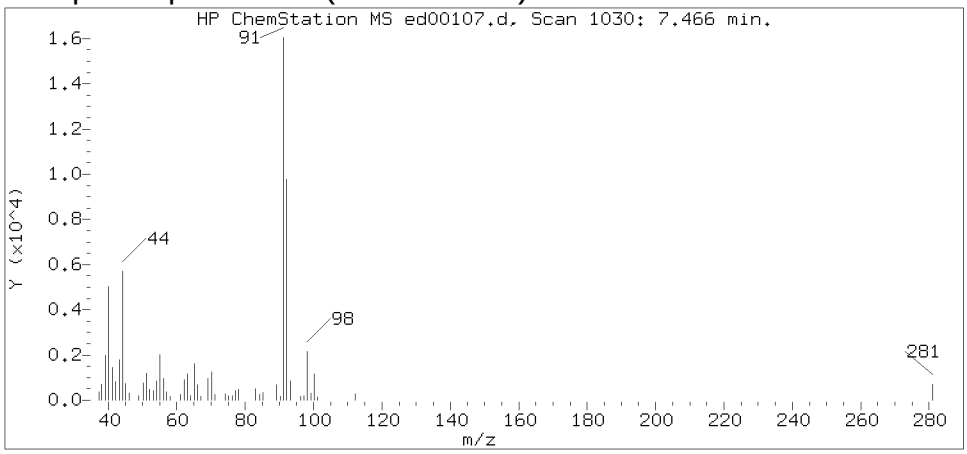


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

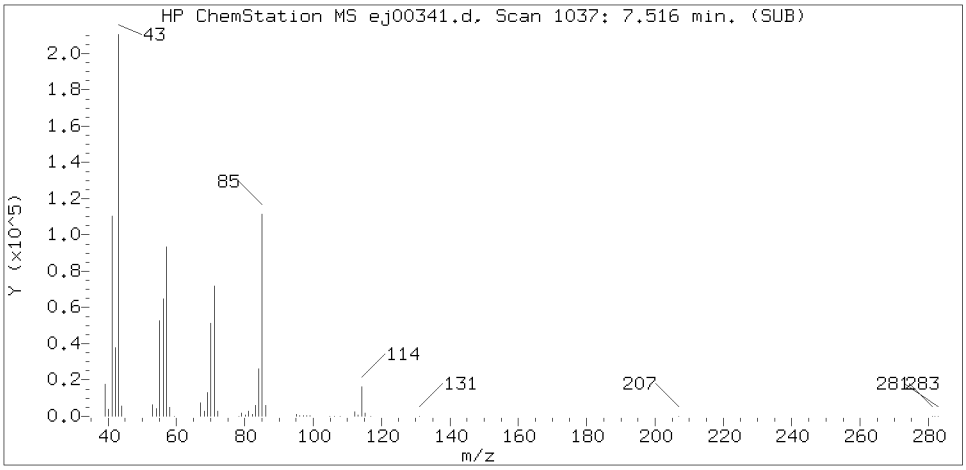
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

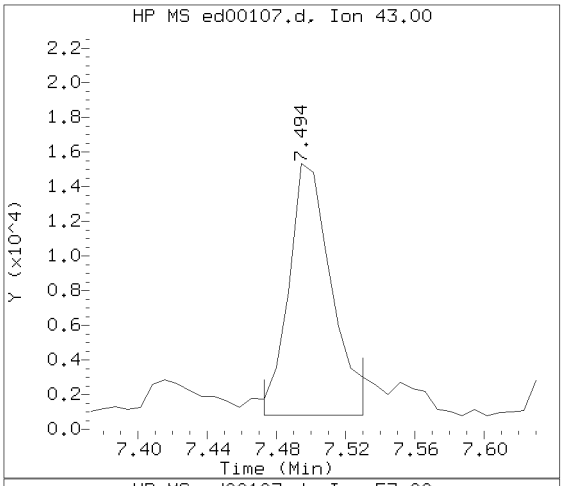
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.466
Relative Retention Time :-0.00000
Quant Ion : 91.00
Area (flag) : 24747
Concentration (ppb(v)) : 0.2748

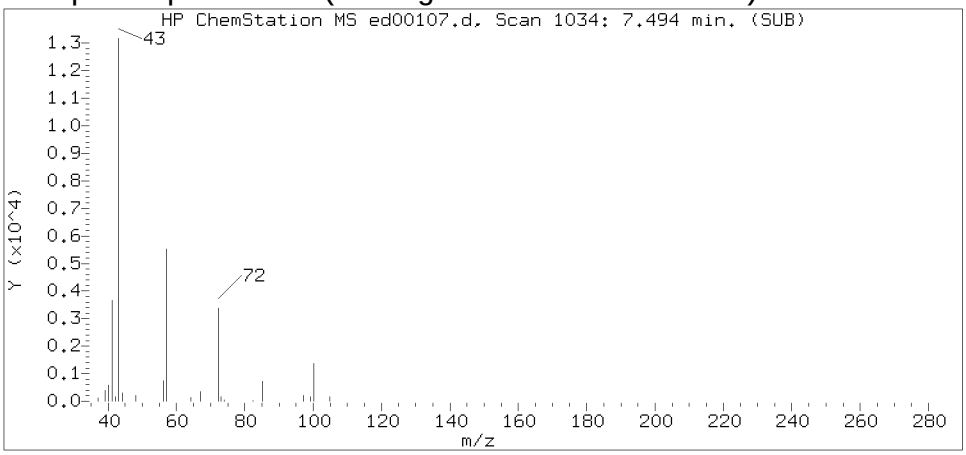
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

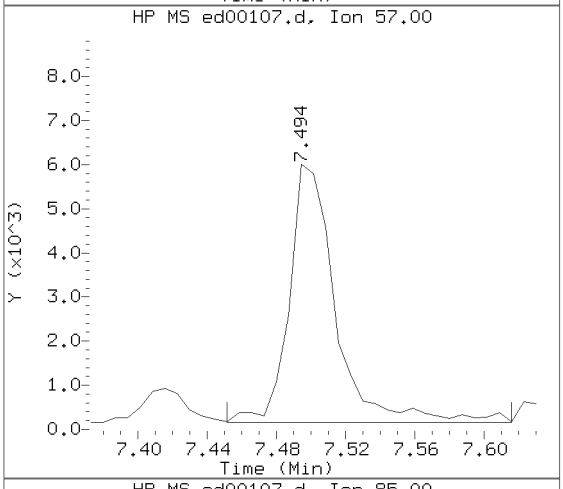
Reference Standard Spectrum for Octane



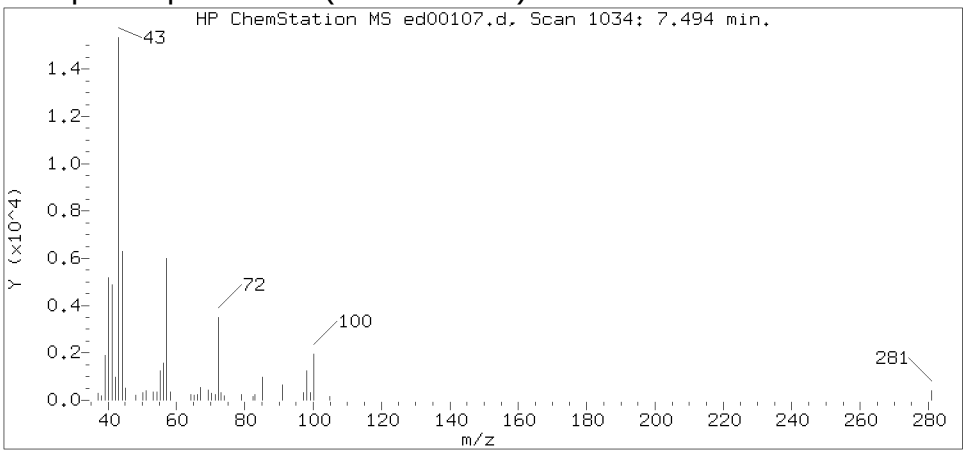


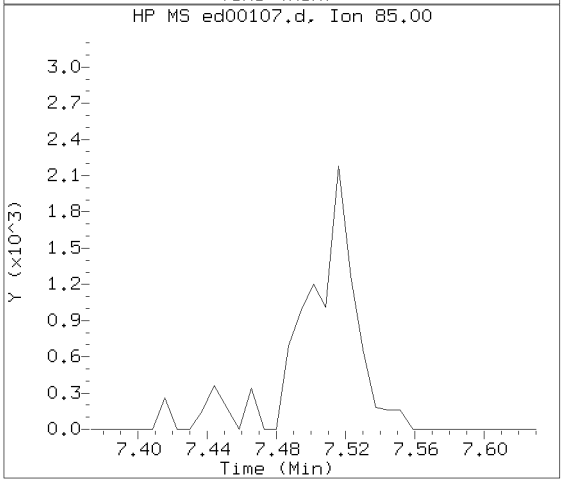
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

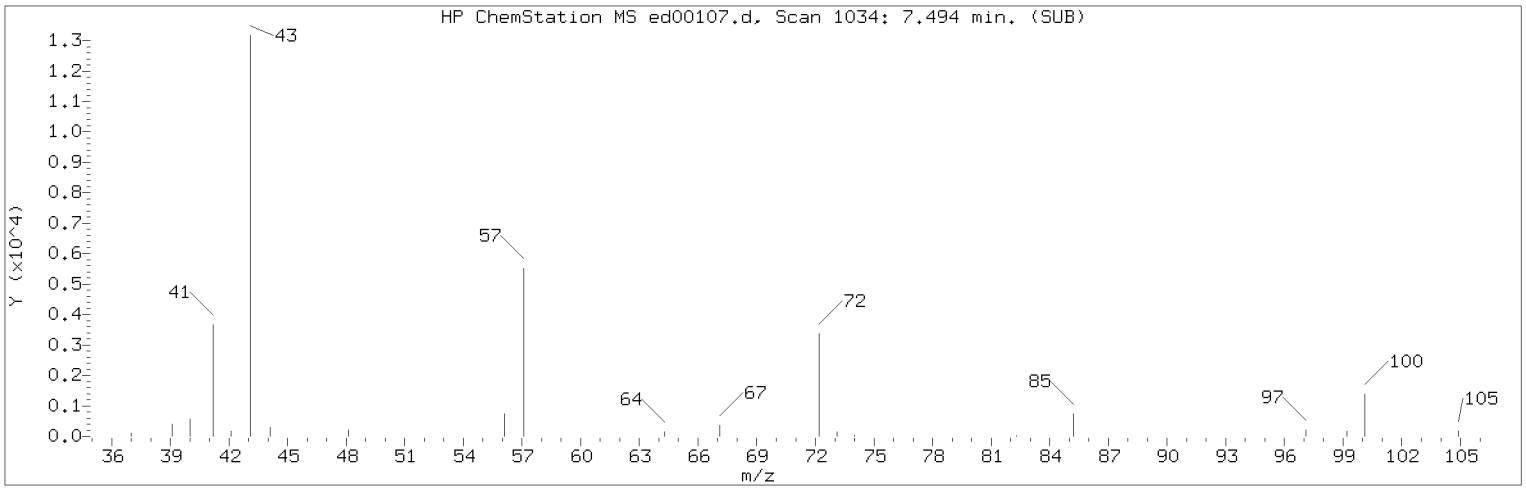
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Sample Name: DKCAF Lab Sample ID: 8906225

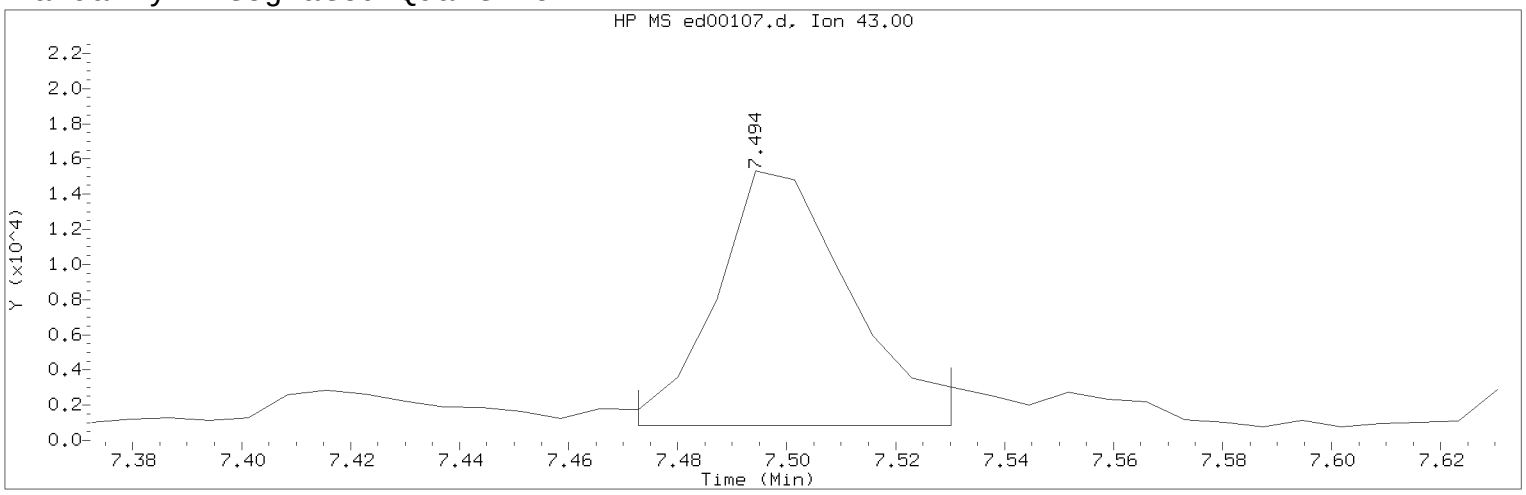
Compound Number : 62
Compound Name : Octane
Scan Number : 1034
Retention Time (minutes): 7.494
Relative Retention Time : 0.00253
Quant Ion : 43.00
Area (flag) : 25206M
Concentration (ppb(v)) : 0.5703

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Sample Name: DKCAF Lab Sample ID: 8906225

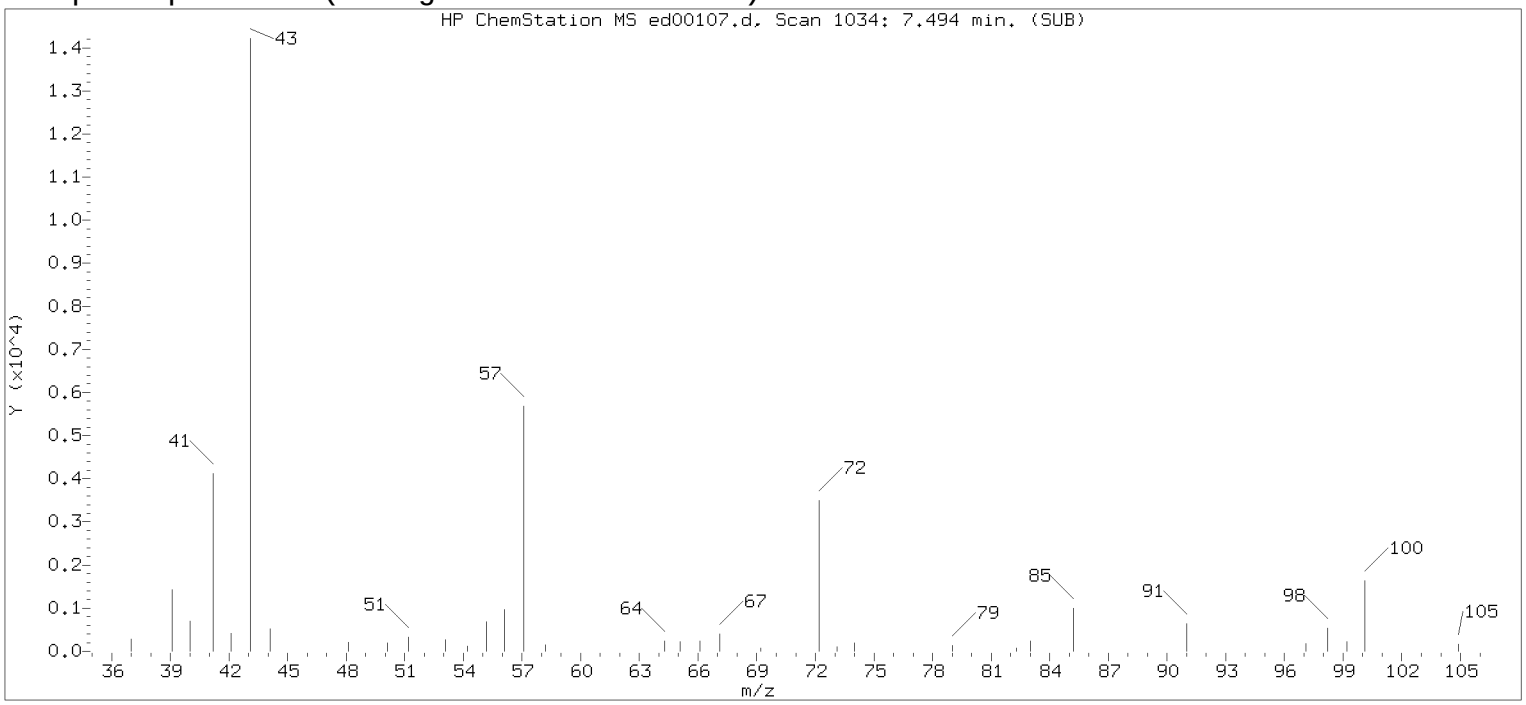
Compound Number : 62
Compound Name : Octane
Scan Number : 1034
Retention Time (minutes): 7.494
Quant Ion : 43.00
Area (flag) : 25206M
Concentration (ppb(v)) : 0.5703
Integration start scan : 1030 Integration stop scan: 1038
Y at integration start : 834 Y at integration end: 834

Reason for manual integration: improper integration

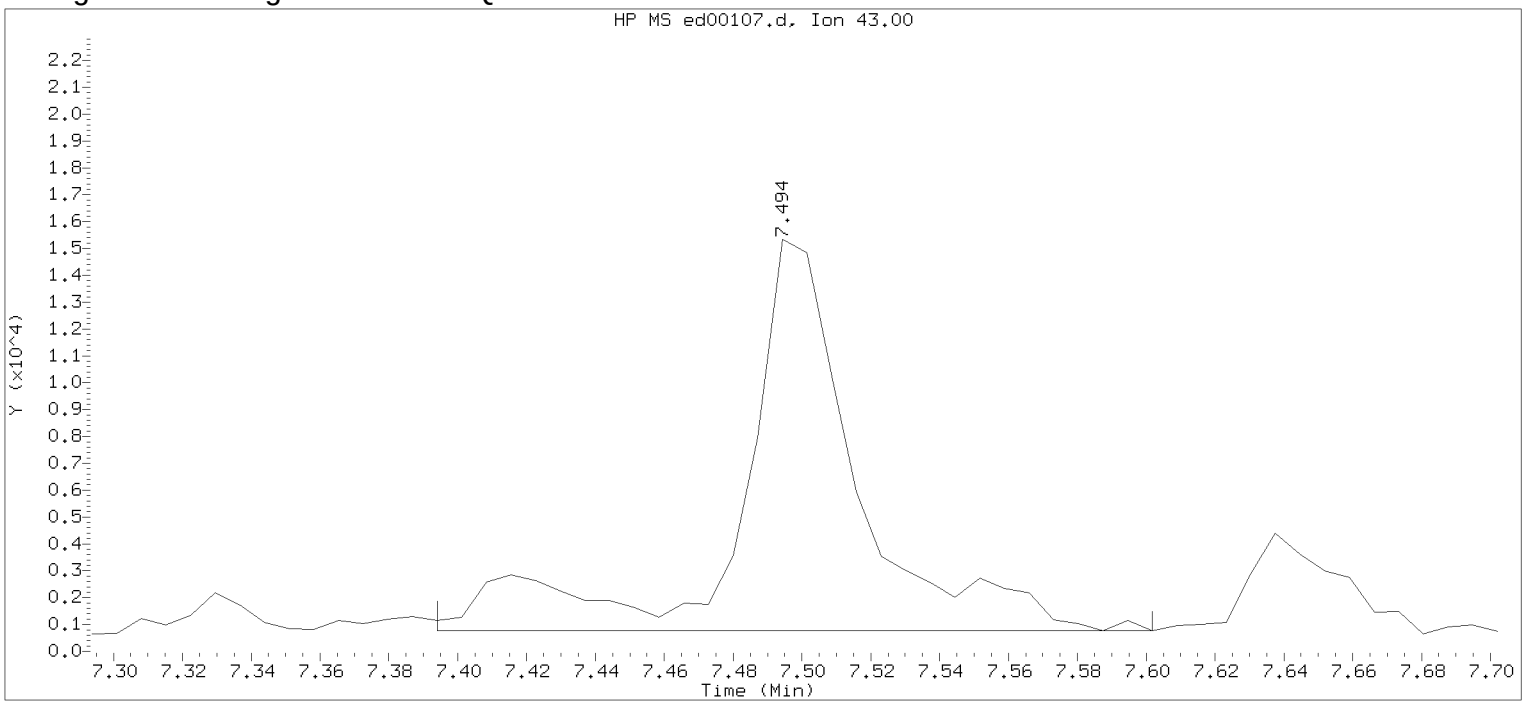
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

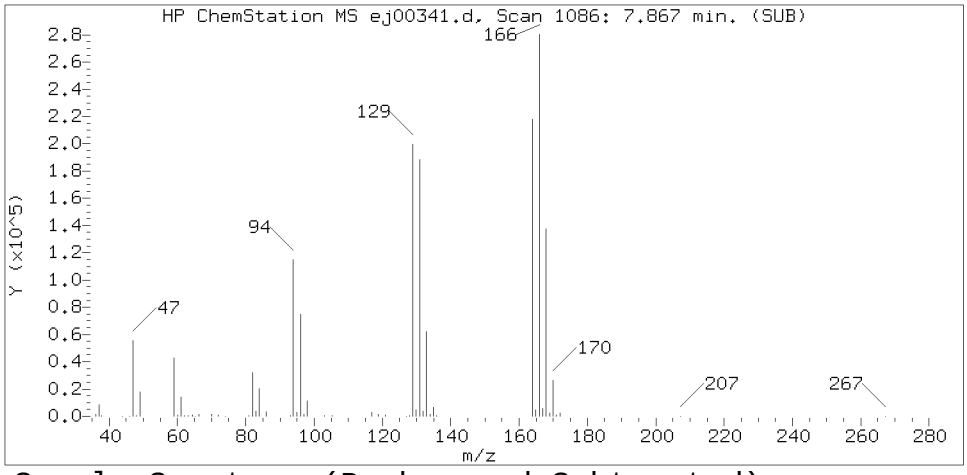
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 10:39 Unknown

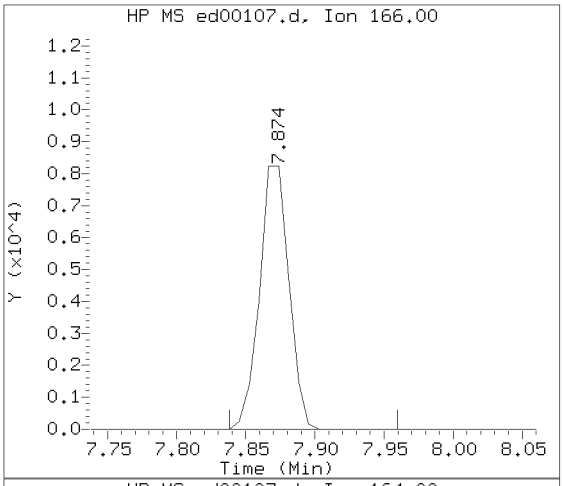
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 62
Compound Name : Octane
Scan Number : 1034
Retention Time (minutes): 7.494
Quant Ion : 43.00
Area : 34766
Concentration (ppb(v)) : 0.7865
Integration start scan : 1019 Integration stop scan: 1048
Y at integration start : 762 Y at integration end: 762

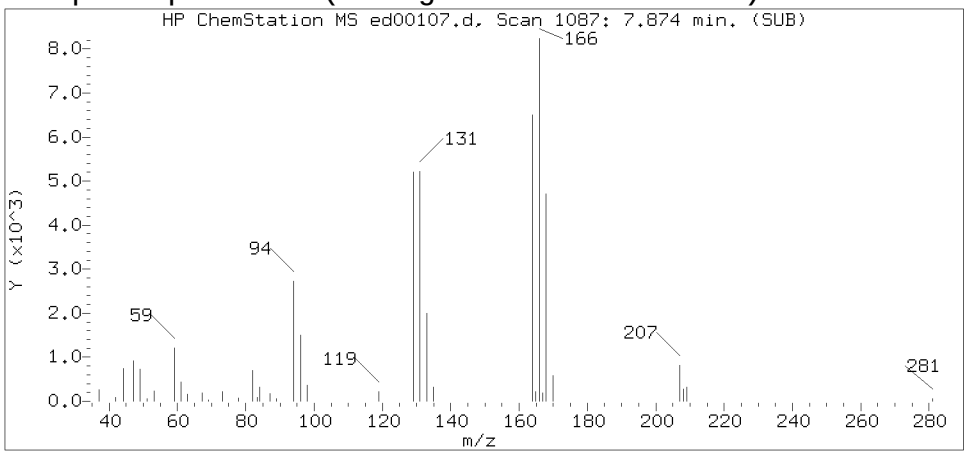
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user VER01jeb07445

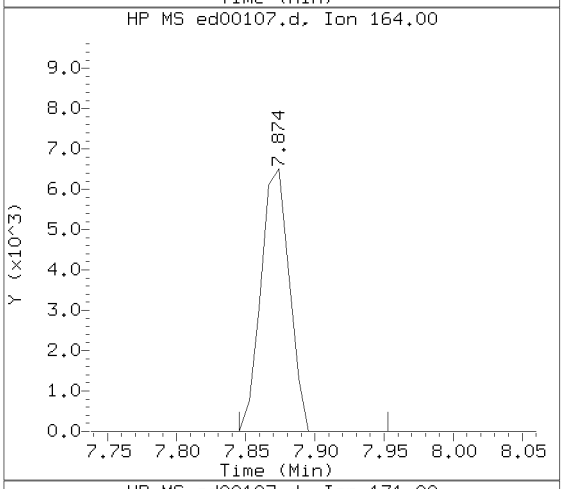
Reference Standard Spectrum for Tetrachloroethene



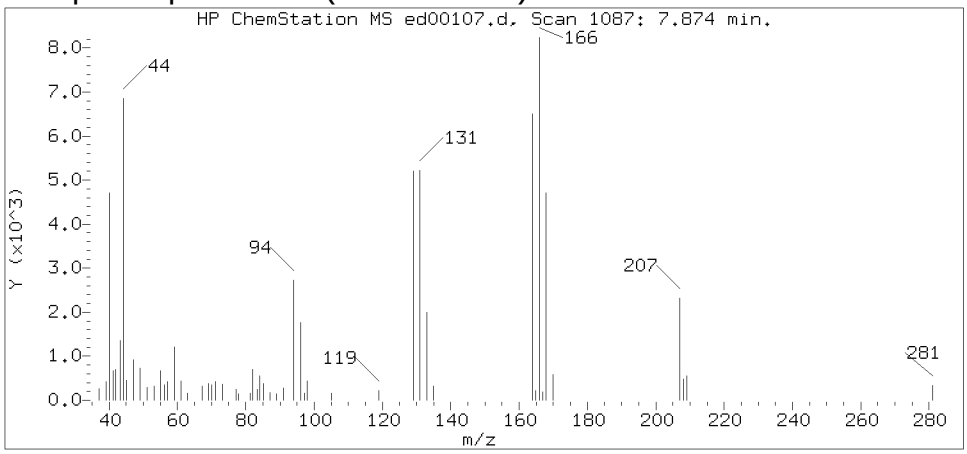


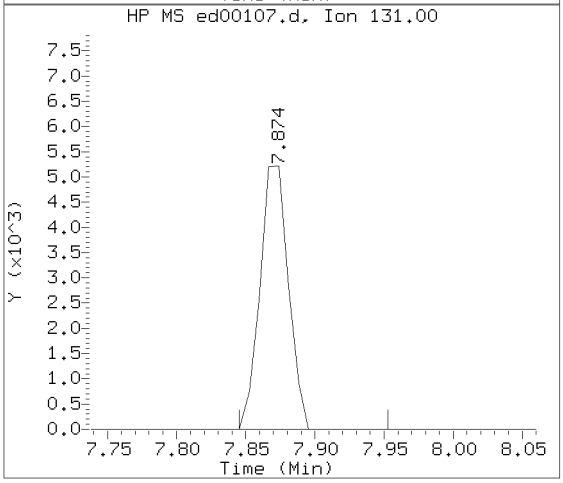
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

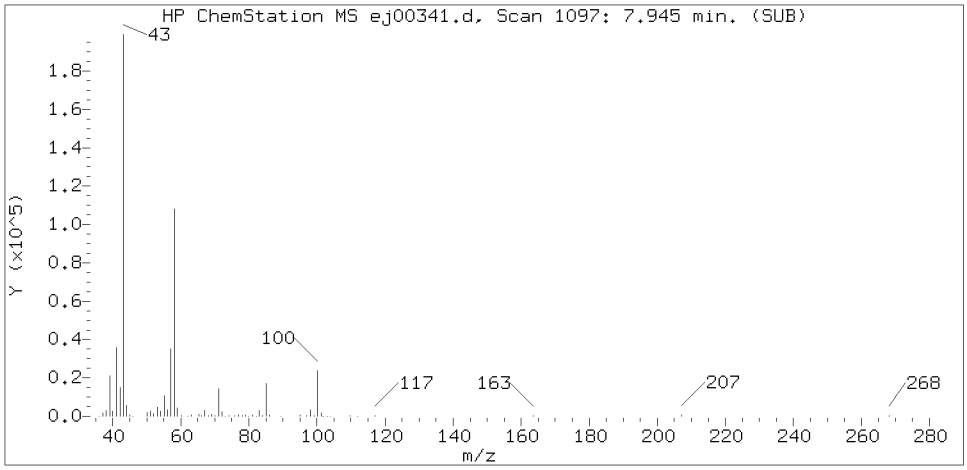
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

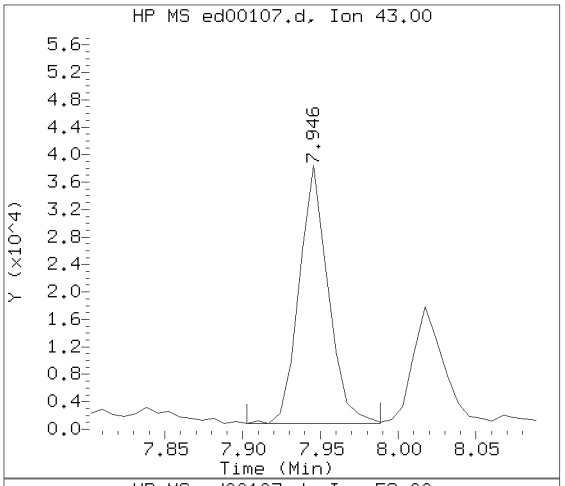
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 67
Compound Name : Tetrachloroethene
Scan Number : 1087
Retention Time (minutes): 7.874
Relative Retention Time :-0.00000
Quant Ion : 166.00
Area (flag) : 12264
Concentration (ppb(v)) : 0.2314

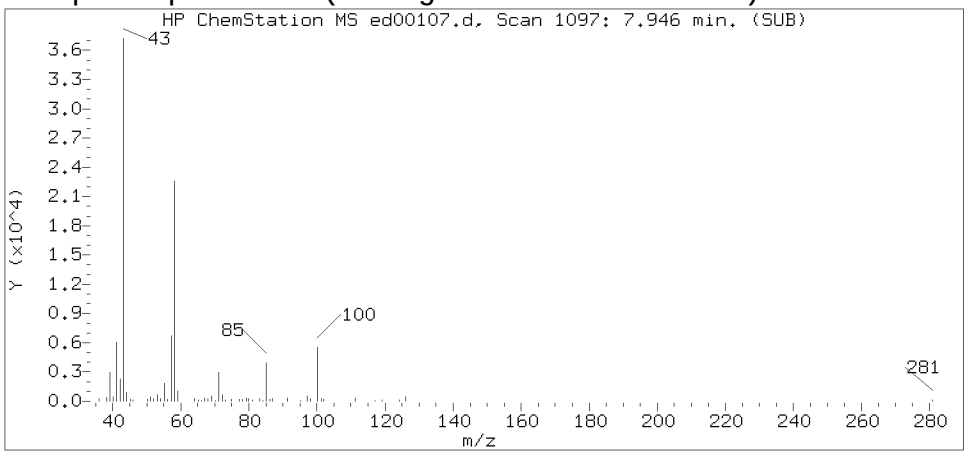
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

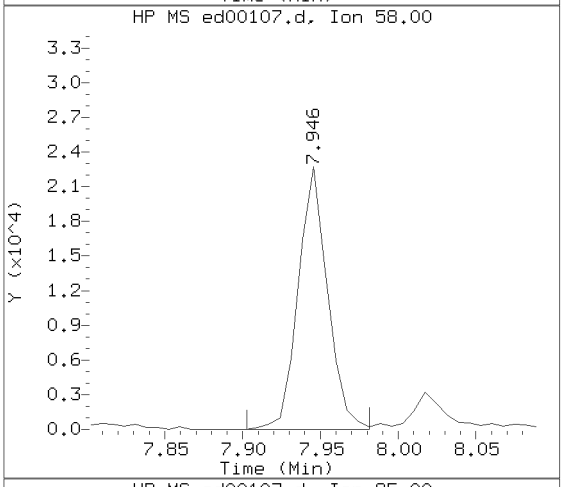
Reference Standard Spectrum for 2-Hexanone



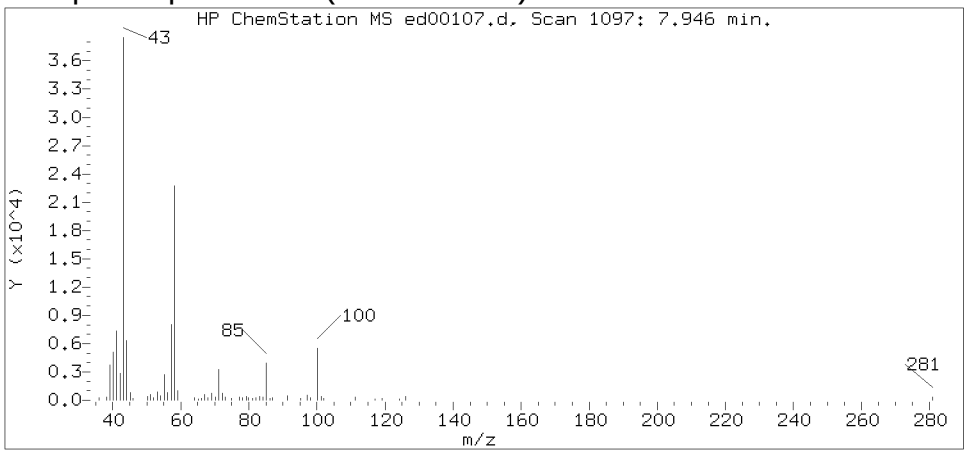


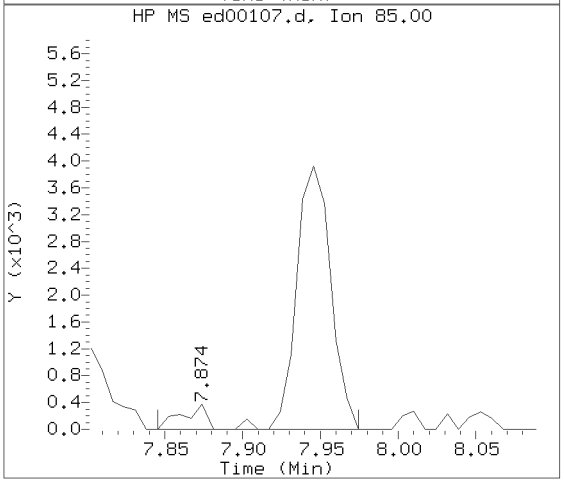
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

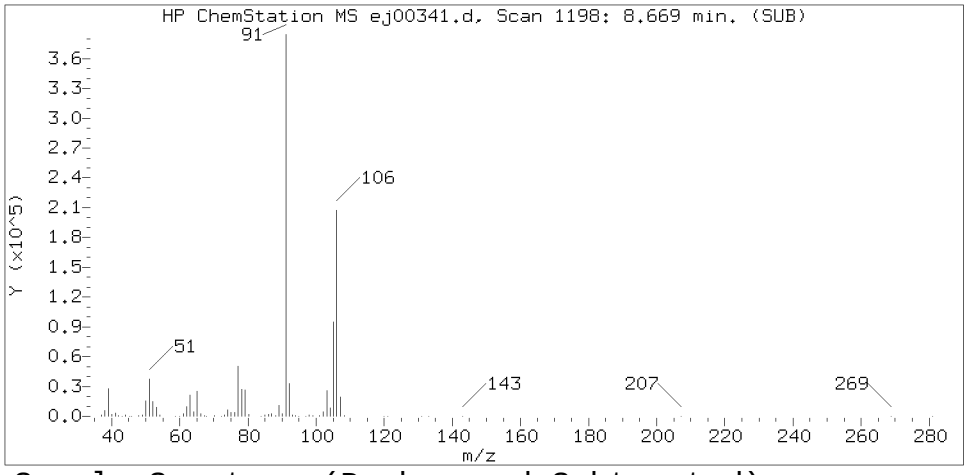
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

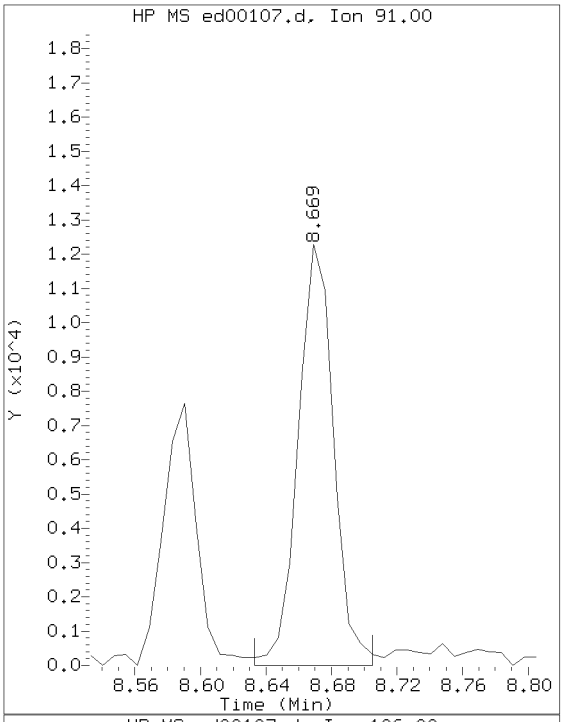
Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1097
Retention Time (minutes): 7.946
Relative Retention Time :-0.00000
Quant Ion : 43.00
Area (flag) : 49017
Concentration (ppb(v)) : 1.2931

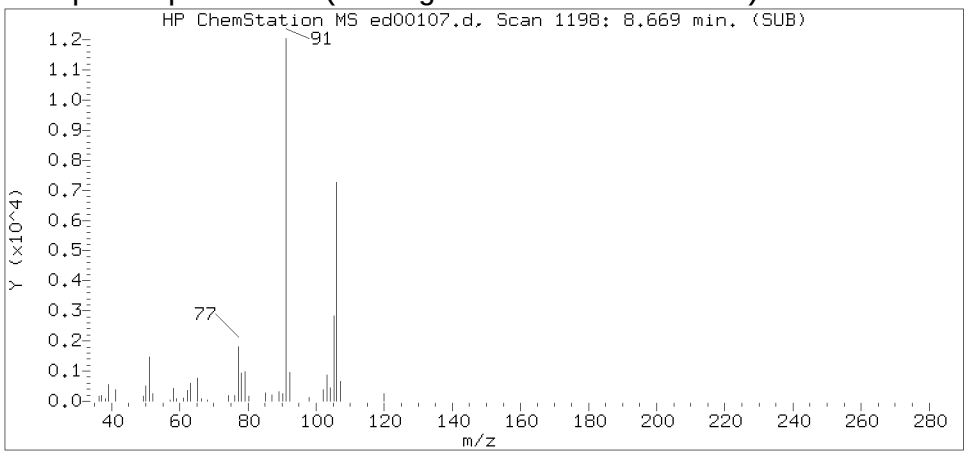
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

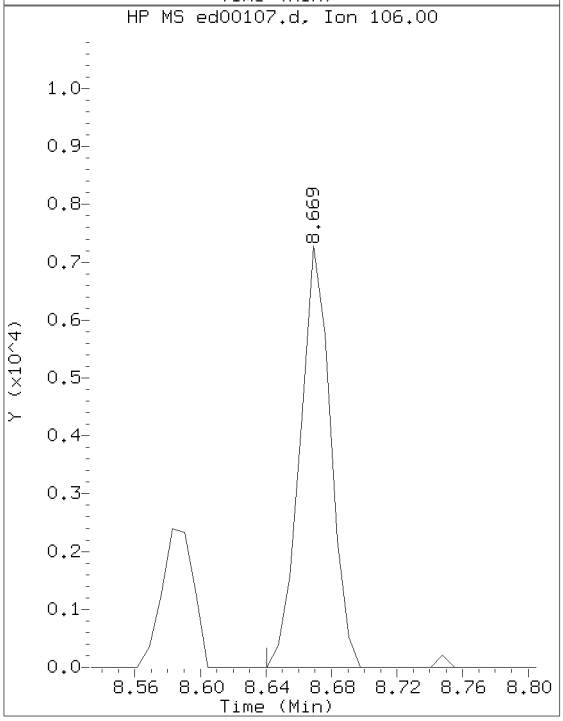
Reference Standard Spectrum for m/p-Xylene



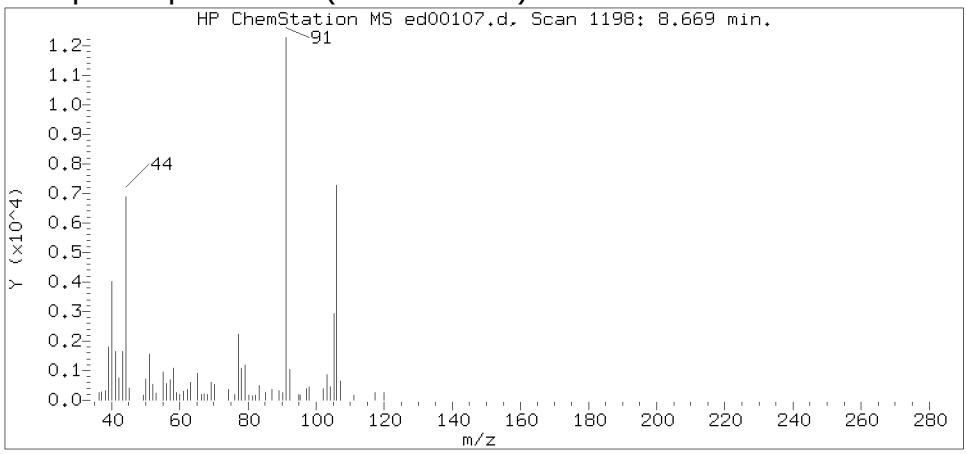


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

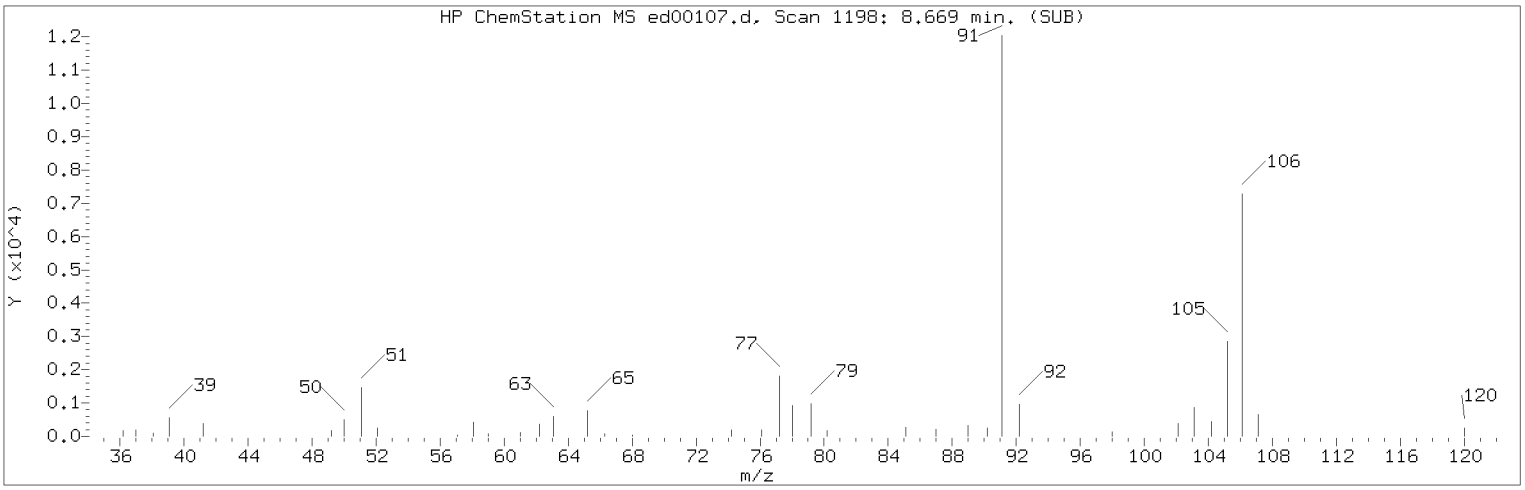
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Sample Name: DKCAF Lab Sample ID: 8906225

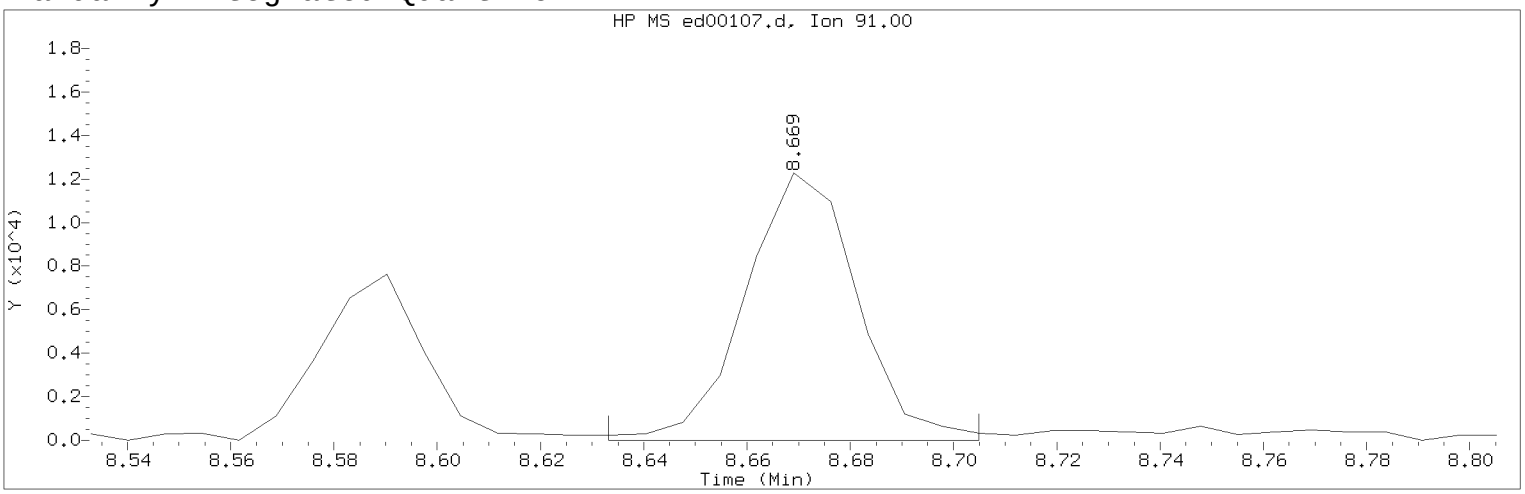
Compound Number	: 75
Compound Name	: m/p-Xylene
Scan Number	: 1198
Retention Time (minutes)	: 8.669
Relative Retention Time	: 0.00000
Quant Ion	: 91.00
Area (flag)	: 18529M
Concentration (ppb(v))	: 0.2033

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:51 jeb07445

Sample Name: DKCAF Lab Sample ID: 8906225

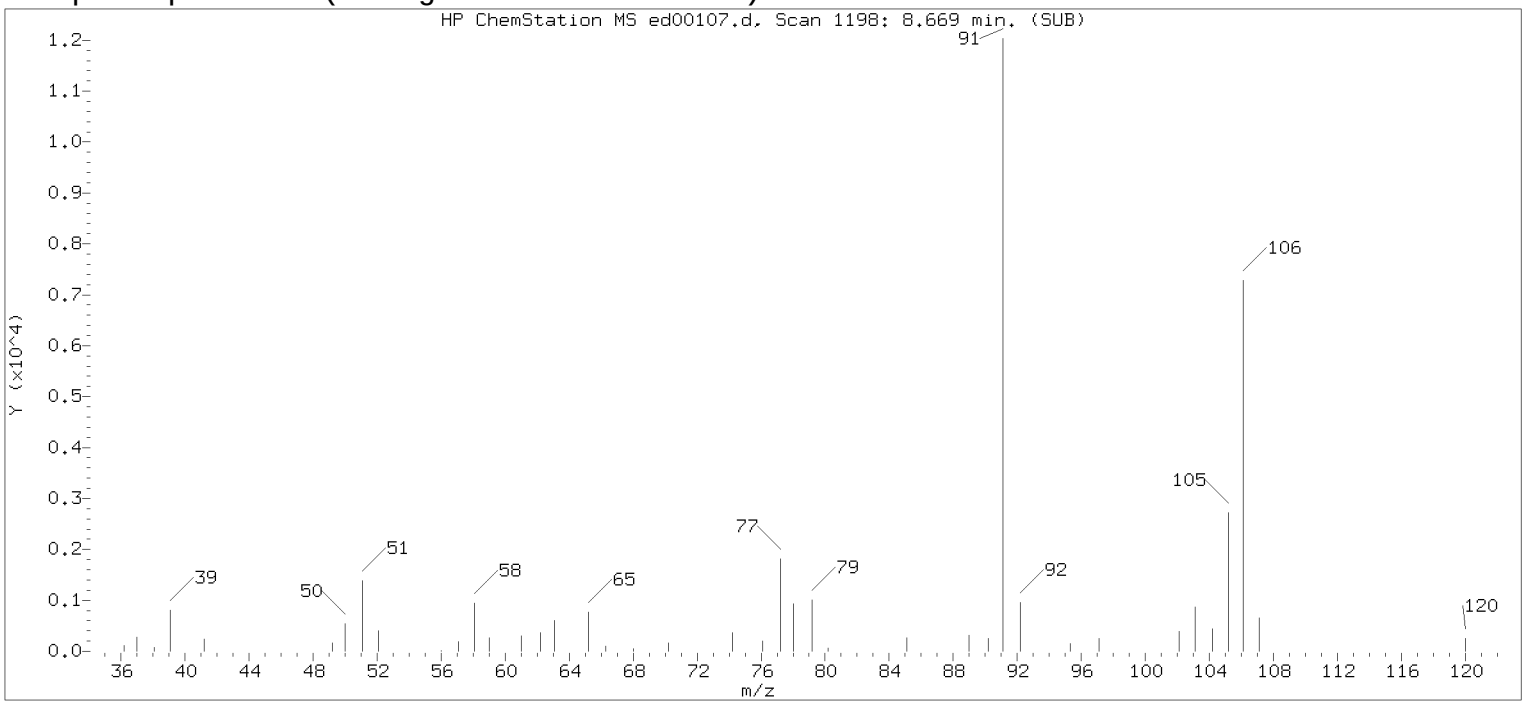
Compound Number : 75
Compound Name : m/p-Xylene
Scan Number : 1198
Retention Time (minutes): 8.669
Quant Ion : 91.00
Area (flag) : 18529M
Concentration (ppb(v)) : 0.2033
Integration start scan : 1192 Integration stop scan: 1202
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

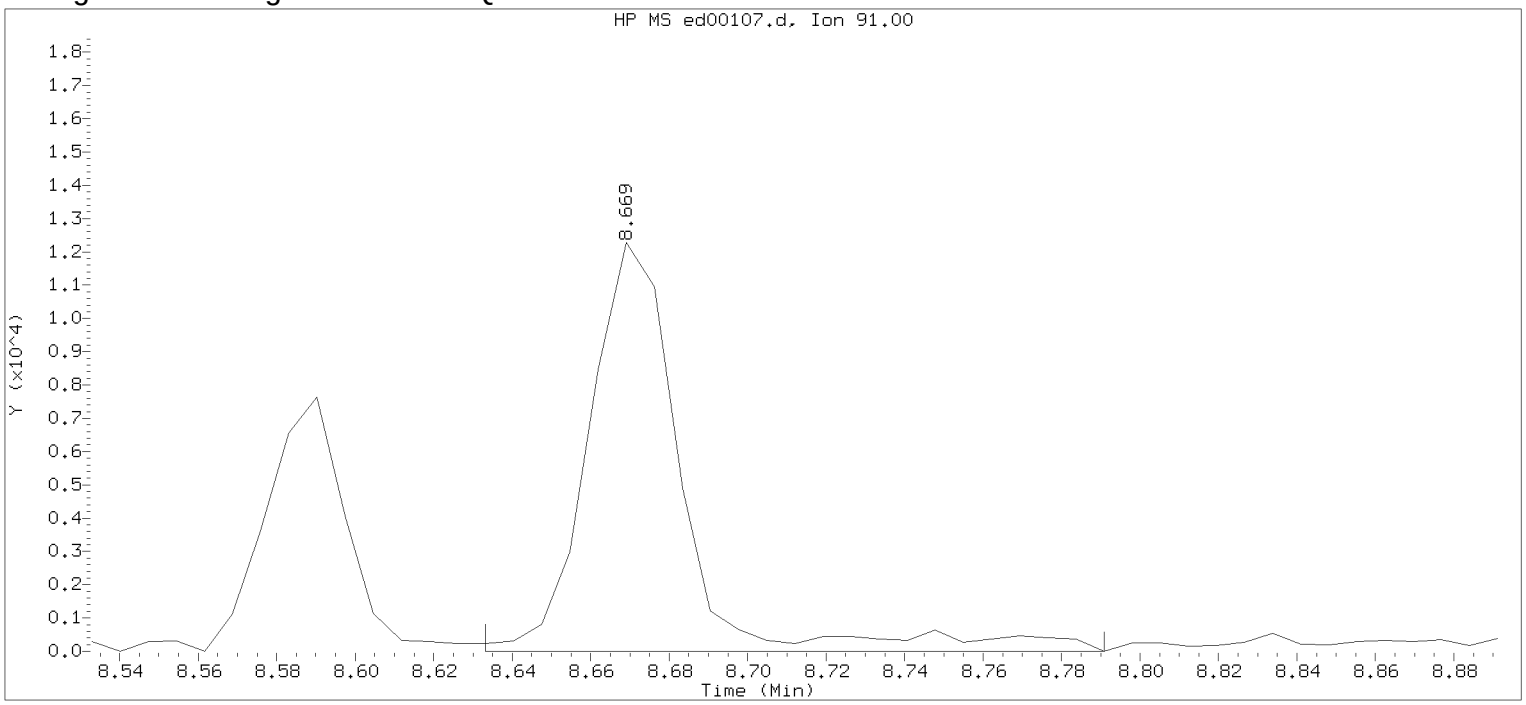
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00107.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 22:22 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 10:39 Unknown

Sample Name: DKCAF Lab Sample ID: 8906225

Compound Number : 75
Compound Name : m/p-Xylene
Scan Number : 1198
Retention Time (minutes): 8.669
Quant Ion : 91.00
Area : 20346
Concentration (ppb(v)) : 0.2233
Integration start scan : 1192 Integration stop scan: 1214
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906226
Canister ID:	1377	Lab File ID:	ed00108.d
Pressure Received:	25.5 psia	Date Collected:	03/22/2017
Final Pressure:	12.7 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	23:06
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	3.6	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	3.0	J
109-66-0	Pentane	0.68	J
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	33	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	5.0	J
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906226
Canister ID:	1377	Lab File ID:	ed00108.d
Pressure Received:	25.5 psia	Date Collected:	03/22/2017
Final Pressure:	12.7 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	23:06
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	0.75	U
111-65-9	Octane	0.93	U
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	1.7	J
591-78-6	2-Hexanone	2.0	U
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906226
Canister ID:	1377	Lab File ID:	ed00108.d
Pressure Received:	25.5 psia	Date Collected:	03/22/2017
Final Pressure:	12.7 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	23:06
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906226

Data file: /chem/HP22820.i/17apr06.b/ed00108.d Injection date and time: **06-APR-2017 23:06**
Data file Sample Info. Line: 8906226;400;E1709630AA;DKOA1;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.5 psia Canister Pressure before dilution (Ya): 12.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	195572 (-11)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	753520 (-9)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	750091 (-8)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	35517	0.721	0.72		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.767(0.000)	101	28236	0.533	0.53		J	0.2	1
13) Pentane	(1)	2.846(0.004)	43	6350	0.229	0.23		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.533(0.000)	43	311965	14.048	14.05			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	17201M	1.692	1.69		J	0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)			Not Detected					0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	7.874(-0.000)	166	13167	0.247	0.25		J	0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00108.d Injection date and time: **06-APR-2017 23:06**
Data file Sample Info. Line: 8906226;400;E1709630AA;DKOA1;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

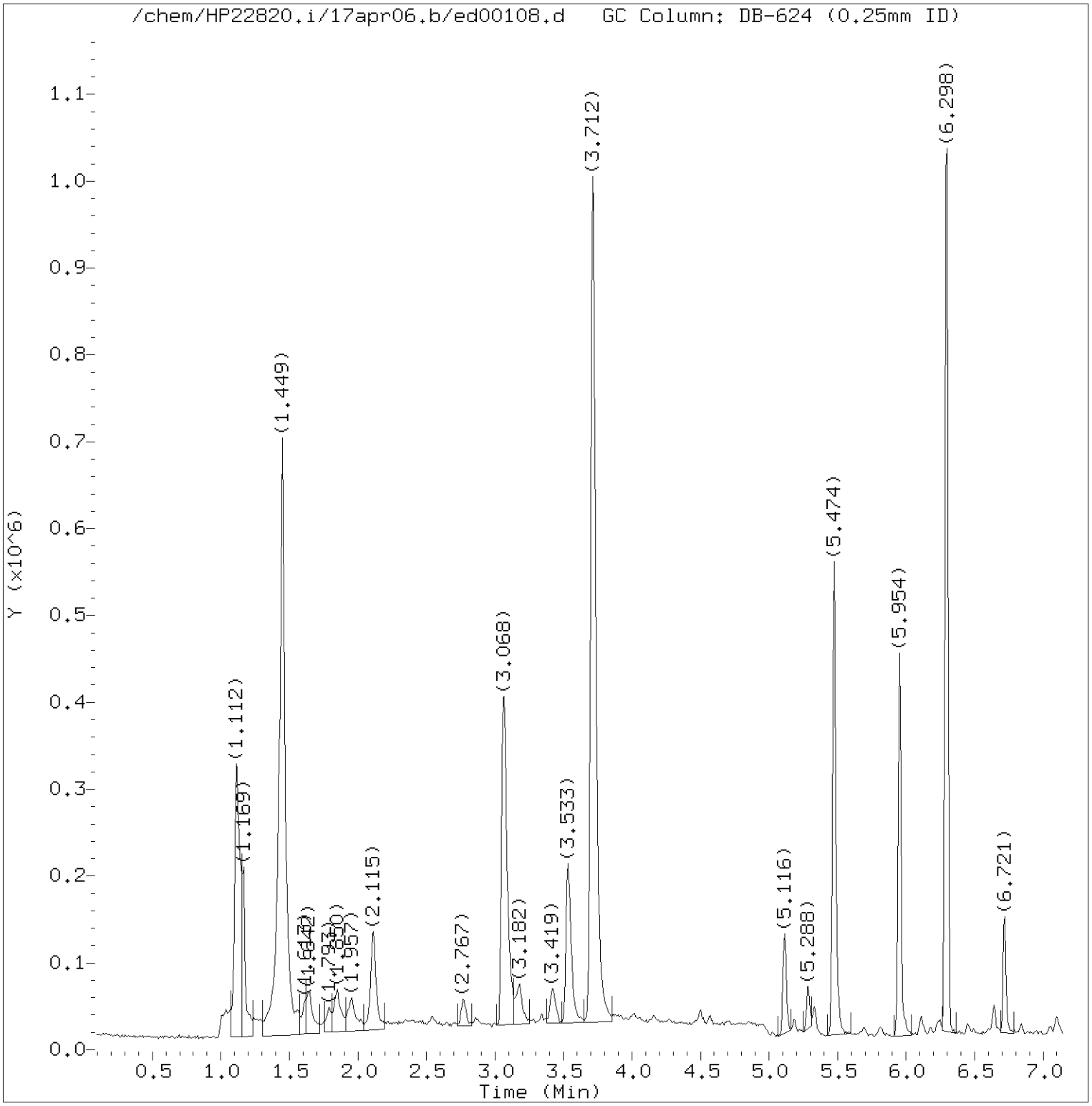
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.5 psia Canister Pressure before dilution (Ya): 12.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)			Not Detected					0.2	1
75) m/p-Xylene	(3)			Not Detected					0.2	1
76) o-Xylene	(3)			Not Detected					0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)			Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

Total number of targets = 62

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Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

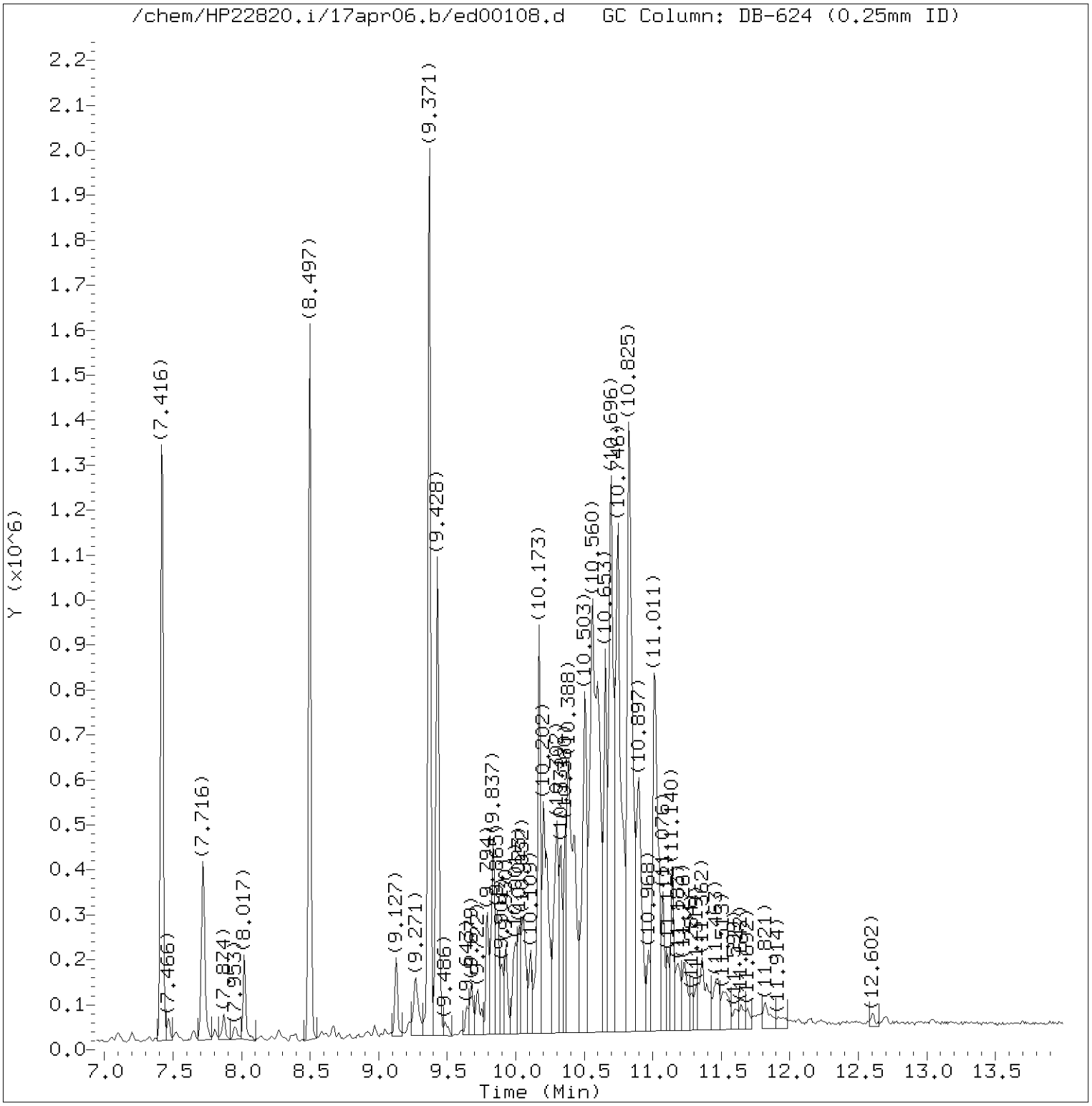
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

Sample Name: DKOA1 Lab Sample ID: 8906226

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

Sample Name: DKOA1 Lab Sample ID: 8906226

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

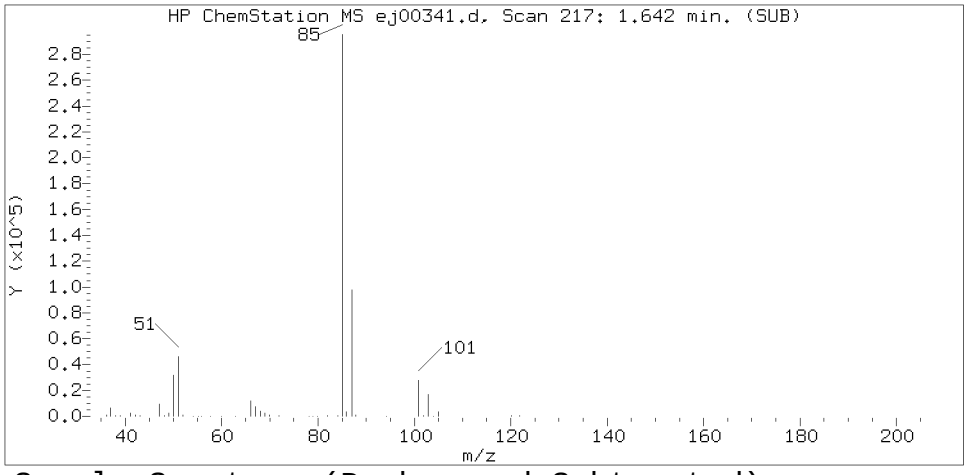
Sample Name: DKOA1 Lab Sample ID: 8906226

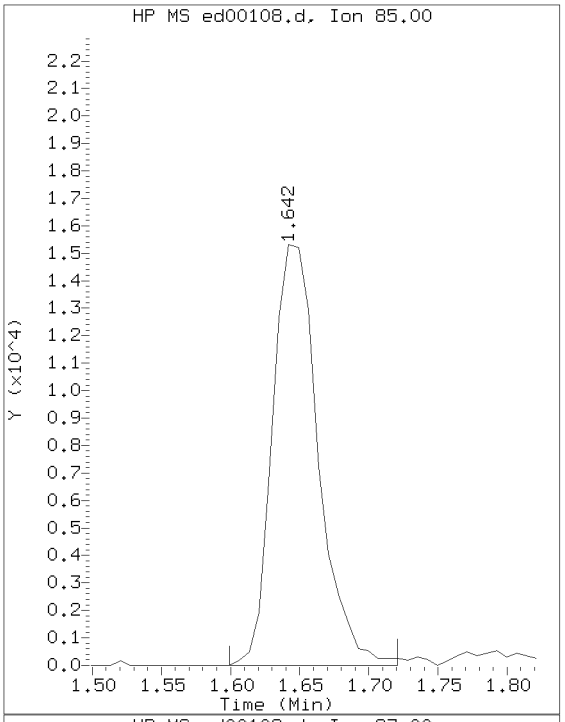
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.642	85	35517	0.721
12) Trichlorofluoromethane	(1)	2.767	101	28236	0.533
13) Pentane	(1)	2.845	43	6350	0.229
19) Acetone	(1)	3.533	43	311965	14.048
37) 2-Butanone	(1)	5.281	72	17201M	1.692
40)*Bromochloromethane	(1)	5.474	130	195572	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	753520	10.000
67) Tetrachloroethene	(3)	7.874	166	13167	0.247
71)*Chlorobenzene-d5	(3)	8.497	117	750091	10.000

M = Compound was manually integrated.
* = Compound is an internal standard.

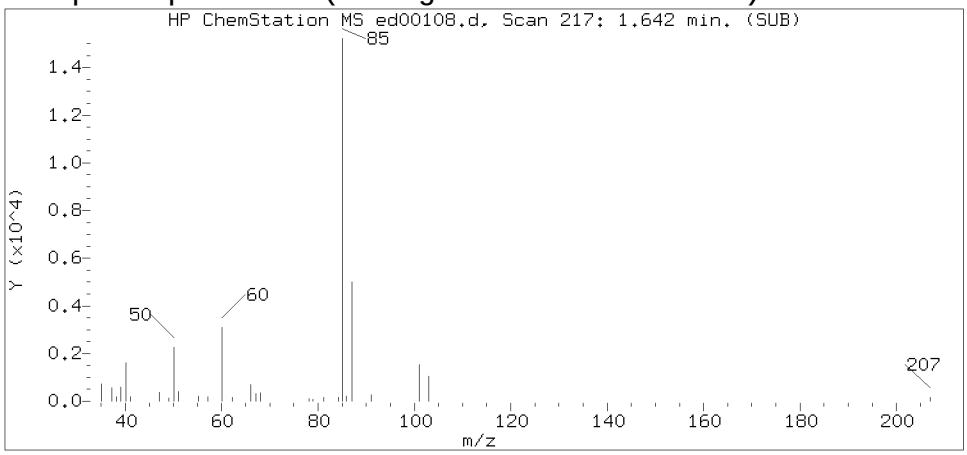
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

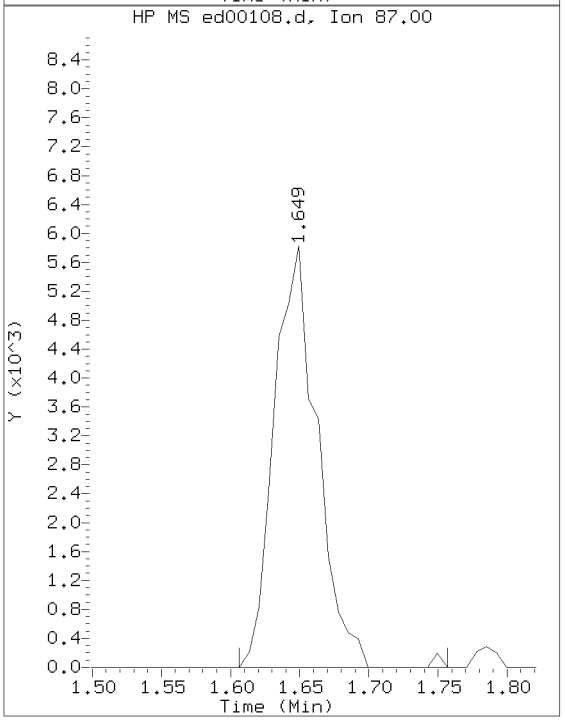
Reference Standard Spectrum for Dichlorodifluoromethane



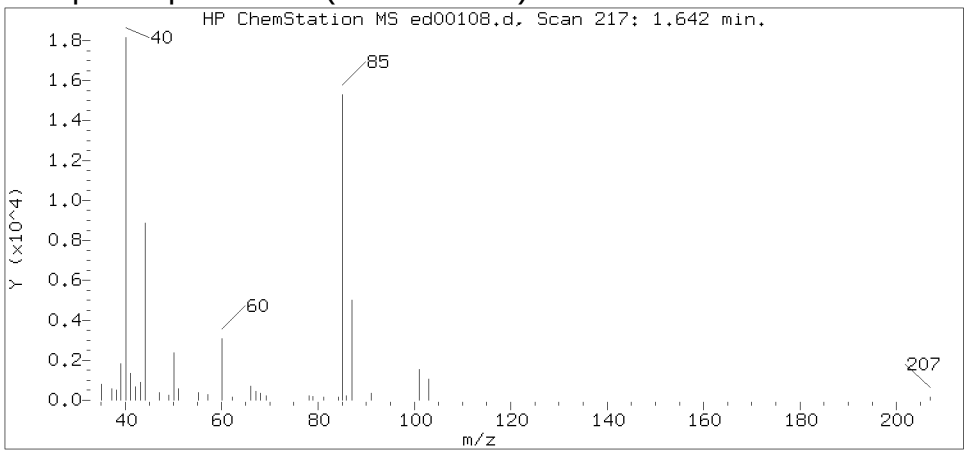


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

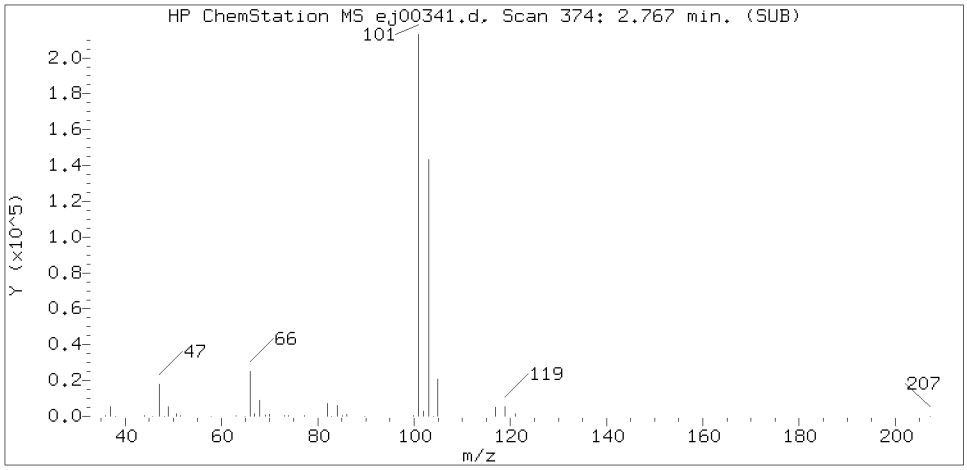
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

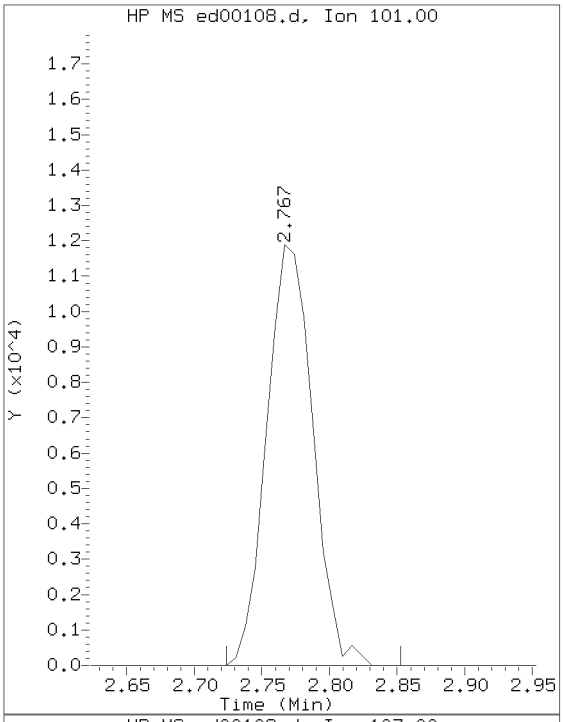
Sample Name: DKOA1 Lab Sample ID: 8906226

Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 217
Retention Time (minutes): 1.642
Relative Retention Time : 0.00038
Quant Ion : 85.00
Area (flag) : 35517
Concentration (ppb(v)) : 0.7212

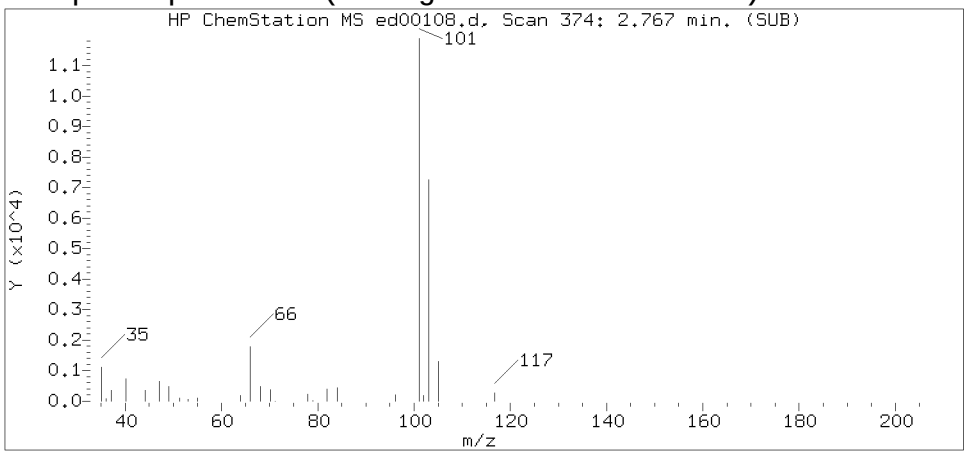
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

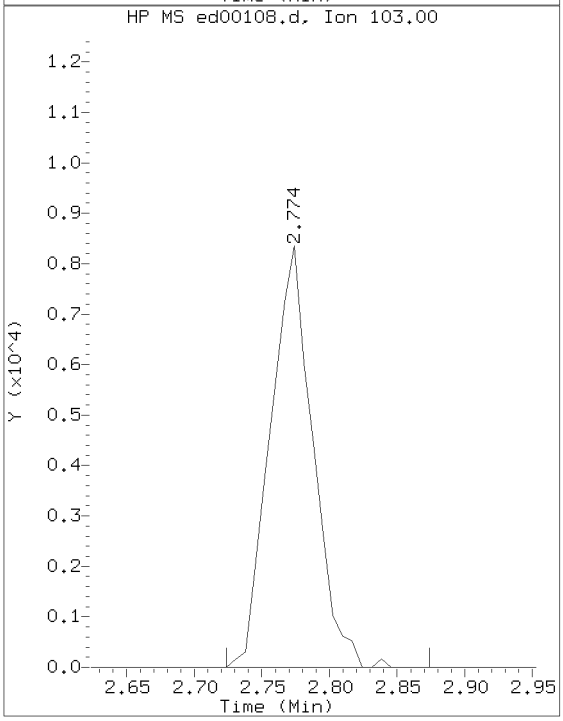
Reference Standard Spectrum for Trichlorofluoromethane



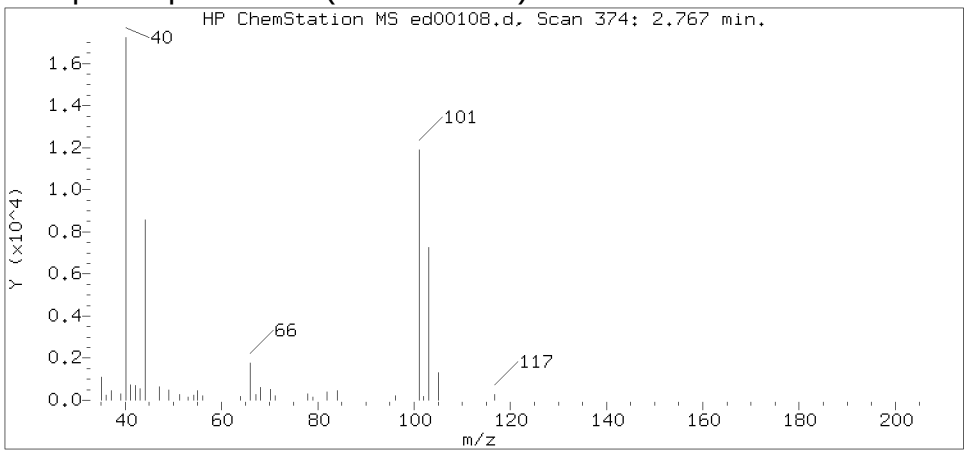


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

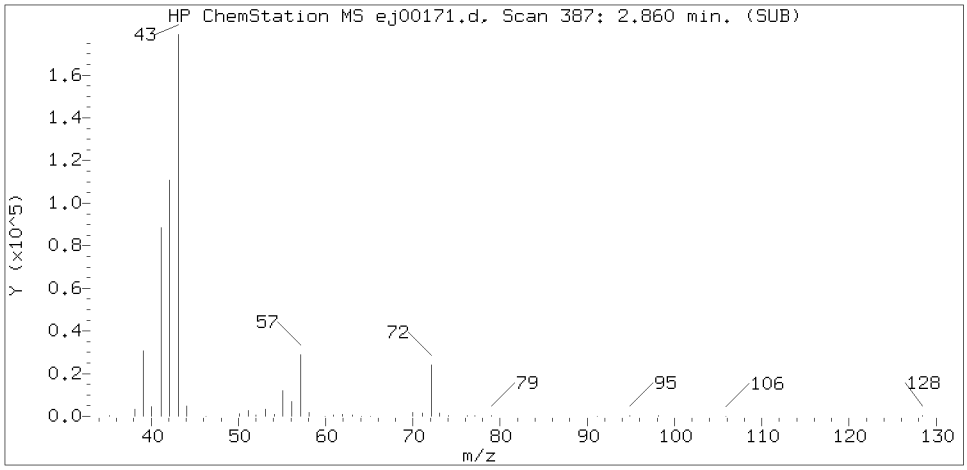
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

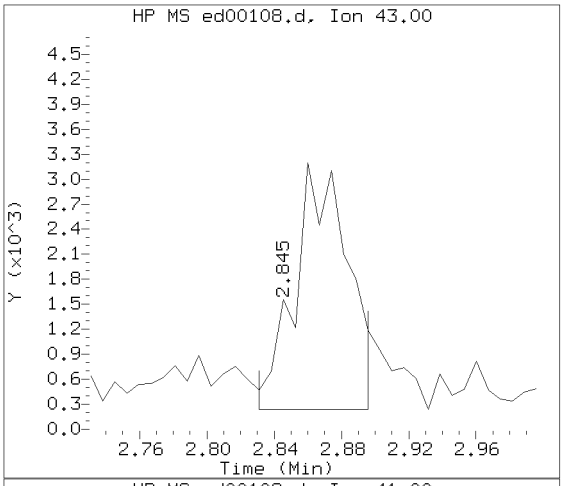
Sample Name: DKOA1 Lab Sample ID: 8906226

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 374
Retention Time (minutes): 2.767
Relative Retention Time : 0.00065
Quant Ion : 101.00
Area (flag) : 28236
Concentration (ppb(v)) : 0.5329

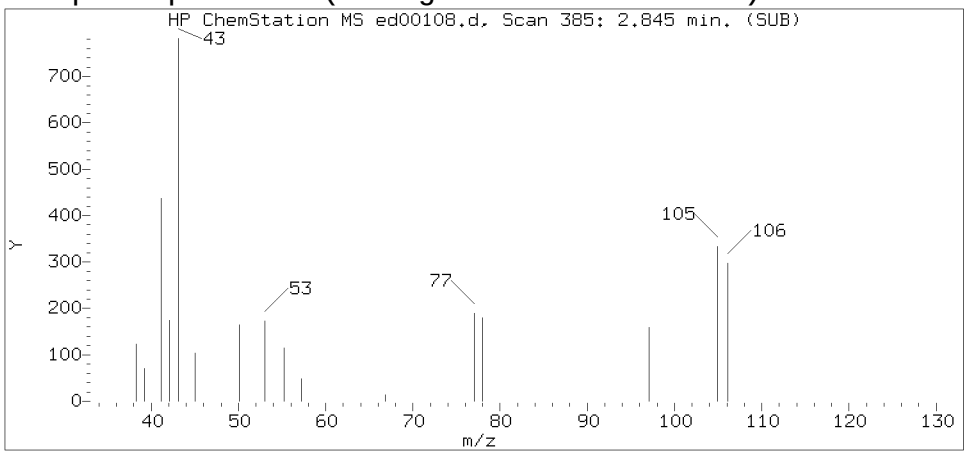
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

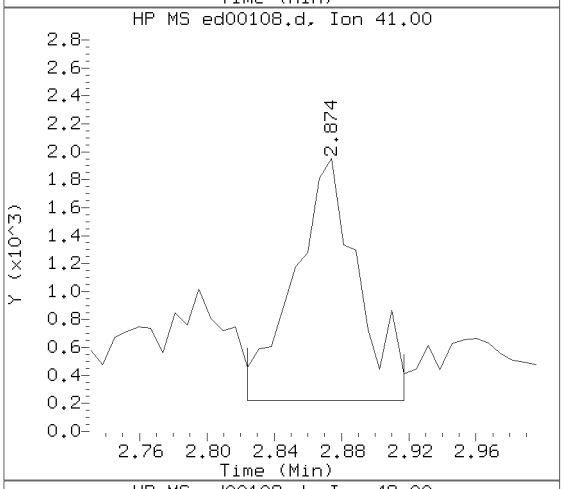
Reference Standard Spectrum for Pentane



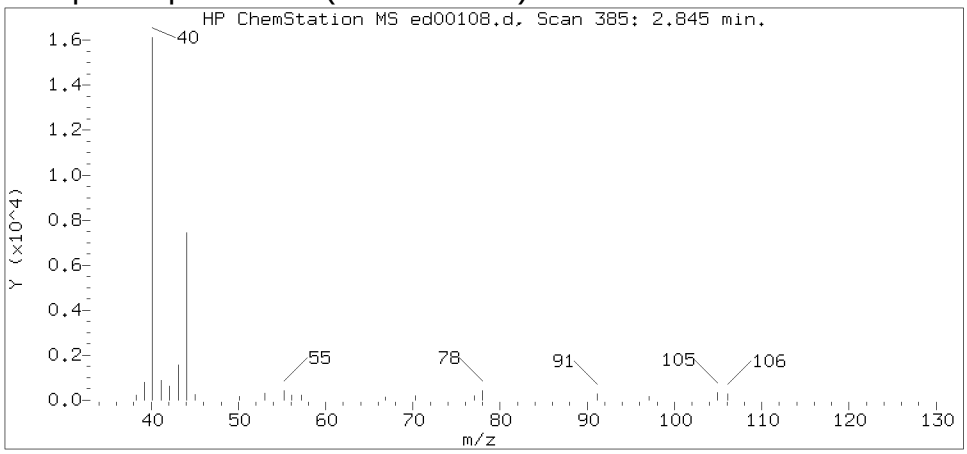


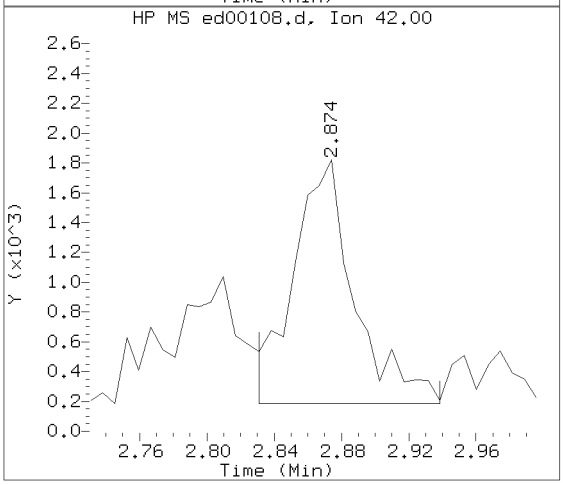
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

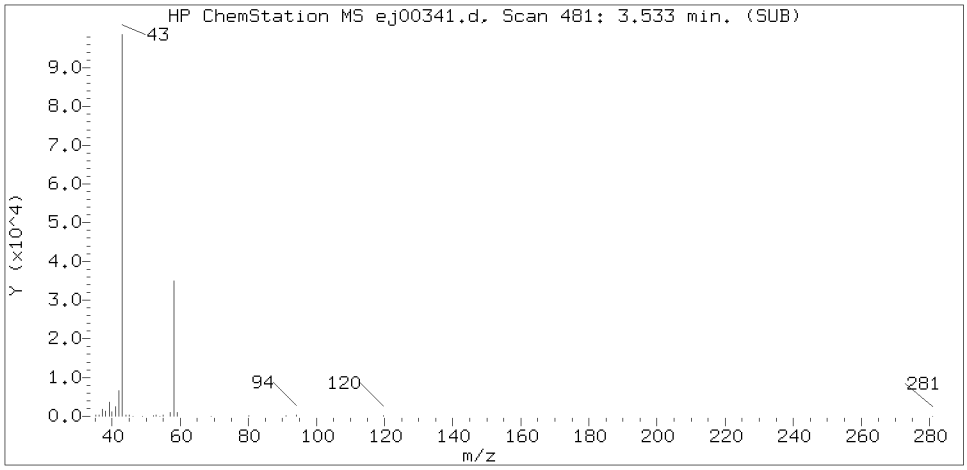
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

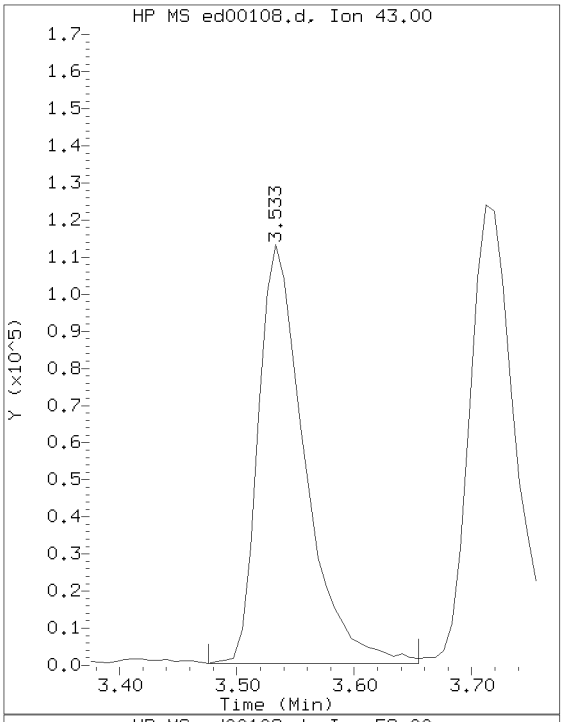
Sample Name: DKOA1 Lab Sample ID: 8906226

Compound Number : 13
Compound Name : Pentane
Scan Number : 385
Retention Time (minutes): 2.845
Relative Retention Time : 0.00460
Quant Ion : 43.00
Area (flag) : 6350
Concentration (ppb(v)) : 0.2292

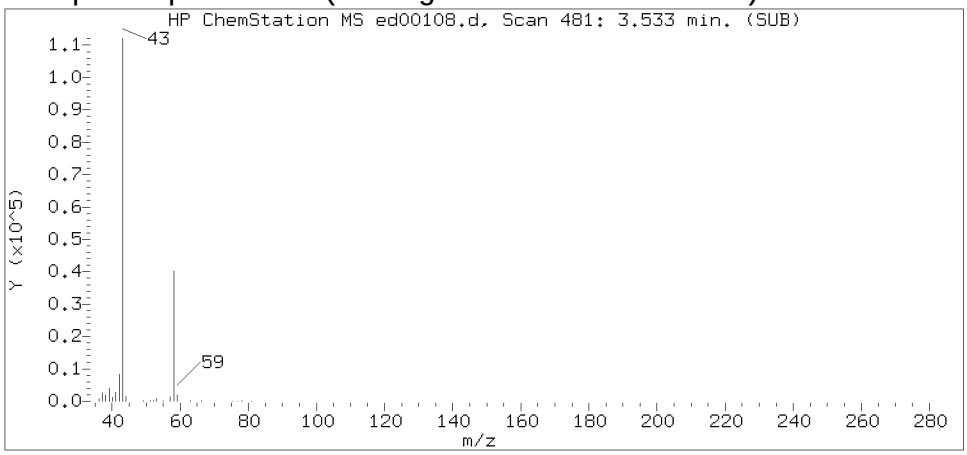
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

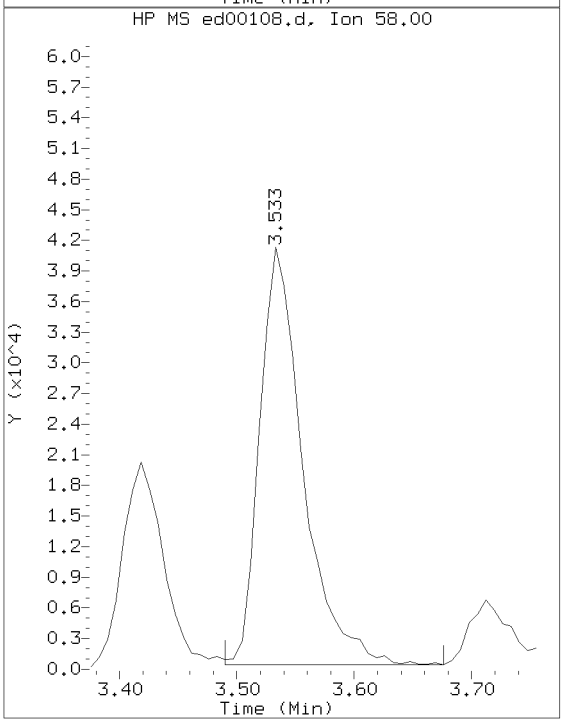
Reference Standard Spectrum for Acetone



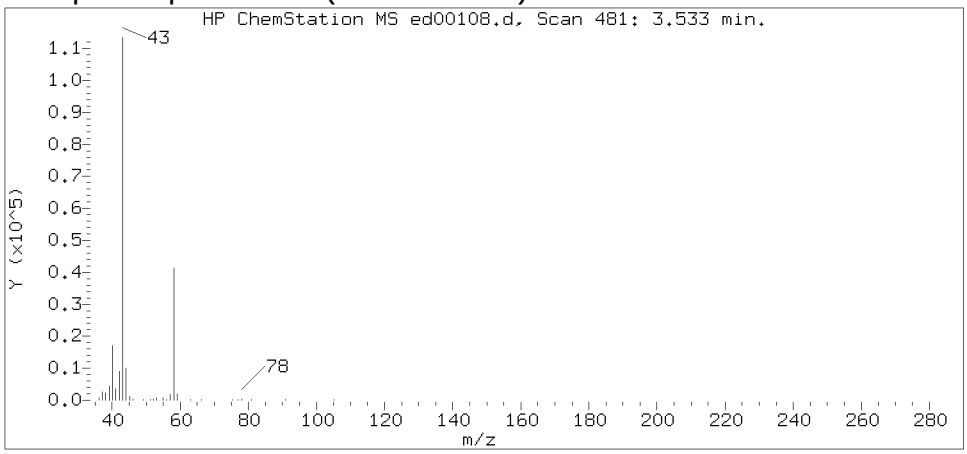


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

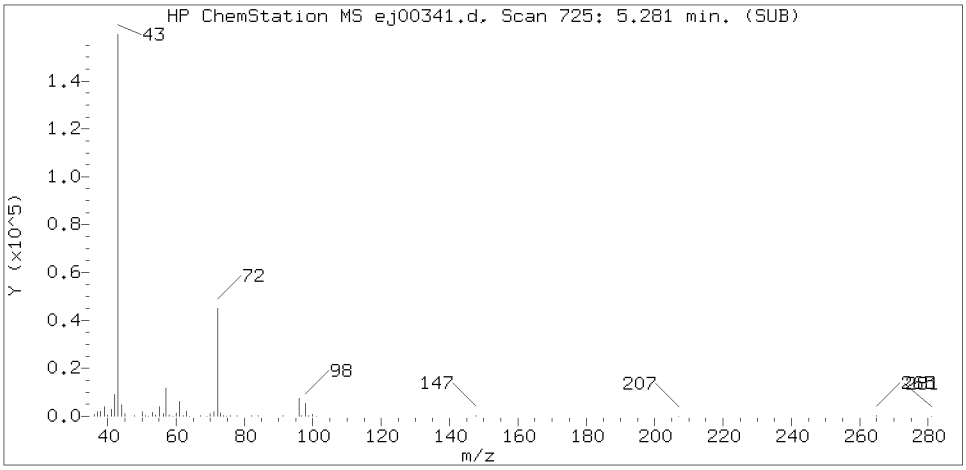
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

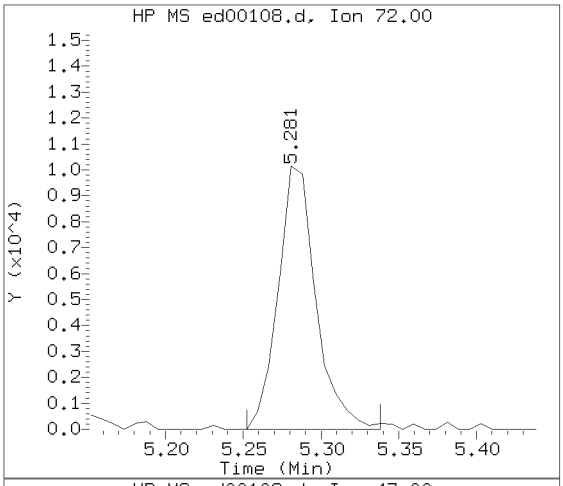
Sample Name: DKOA1 Lab Sample ID: 8906226

Compound Number	: 19
Compound Name	: Acetone
Scan Number	: 481
Retention Time (minutes)	: 3.533
Relative Retention Time	: 0.00084
Quant Ion	: 43.00
Area (flag)	: 311965
Concentration (ppb(v))	: 14.0476

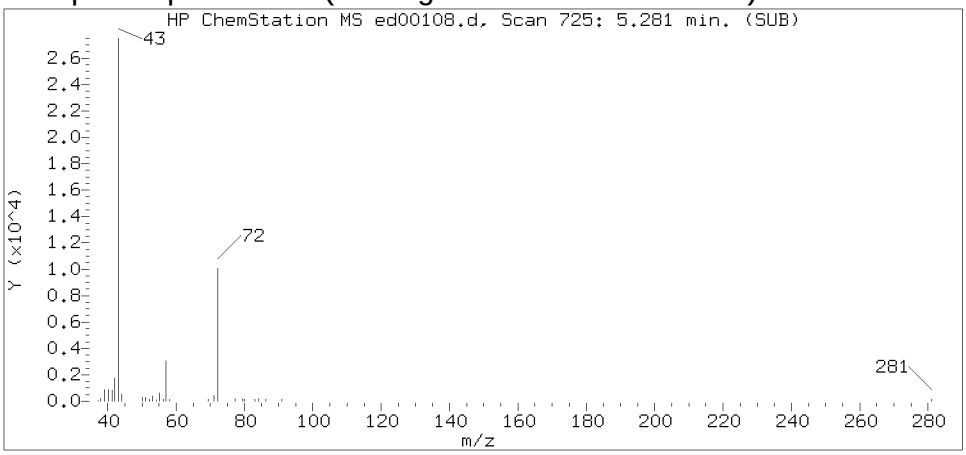
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

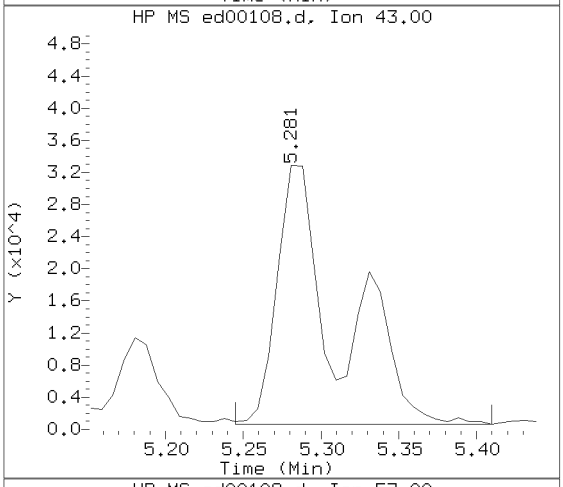
Reference Standard Spectrum for 2-Butanone



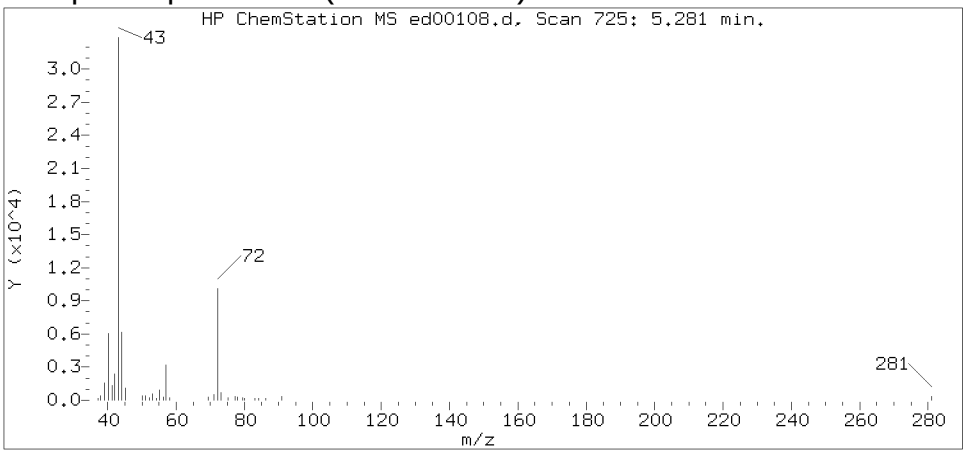


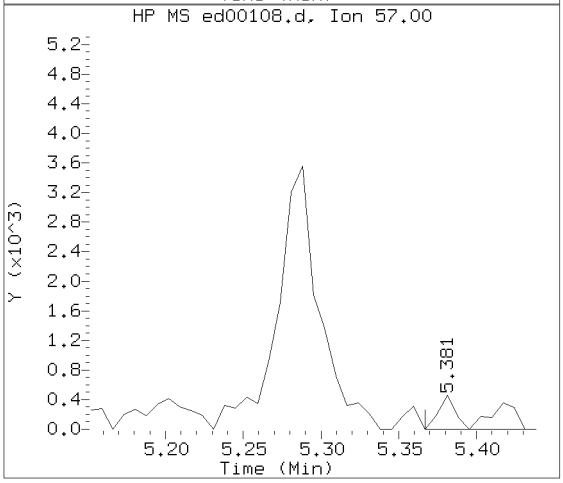
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

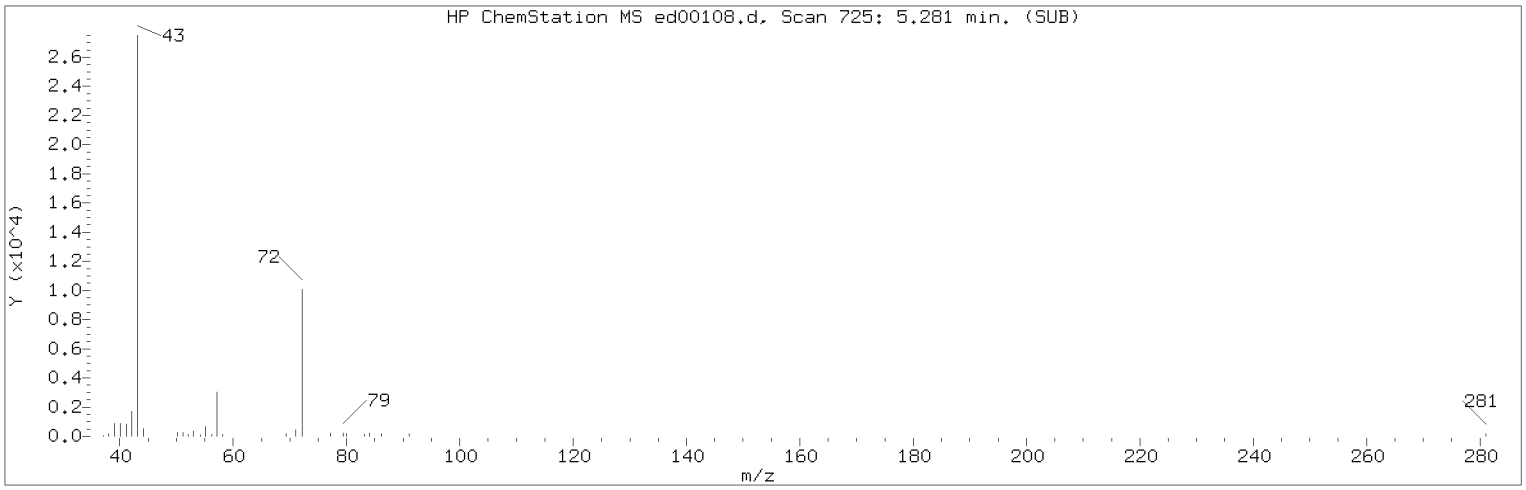
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

Sample Name: DKOA1 Lab Sample ID: 8906226

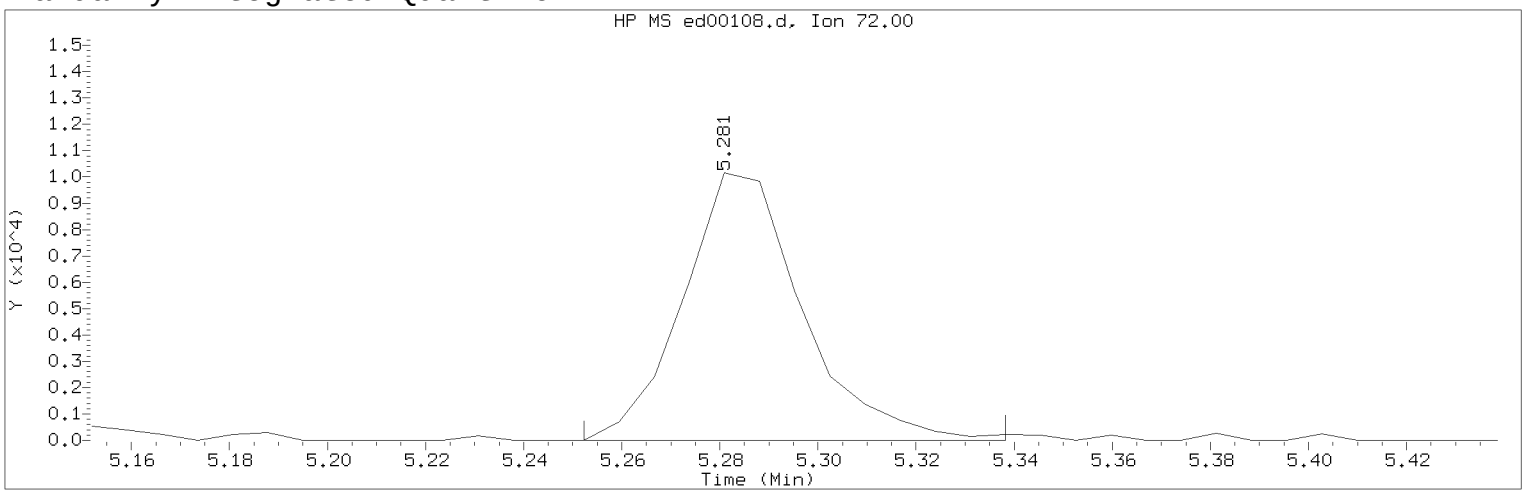
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00126
Quant Ion : 72.00
Area (flag) : 17201M
Concentration (ppb(v)) : 1.6921

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

Sample Name: DKOA1 Lab Sample ID: 8906226

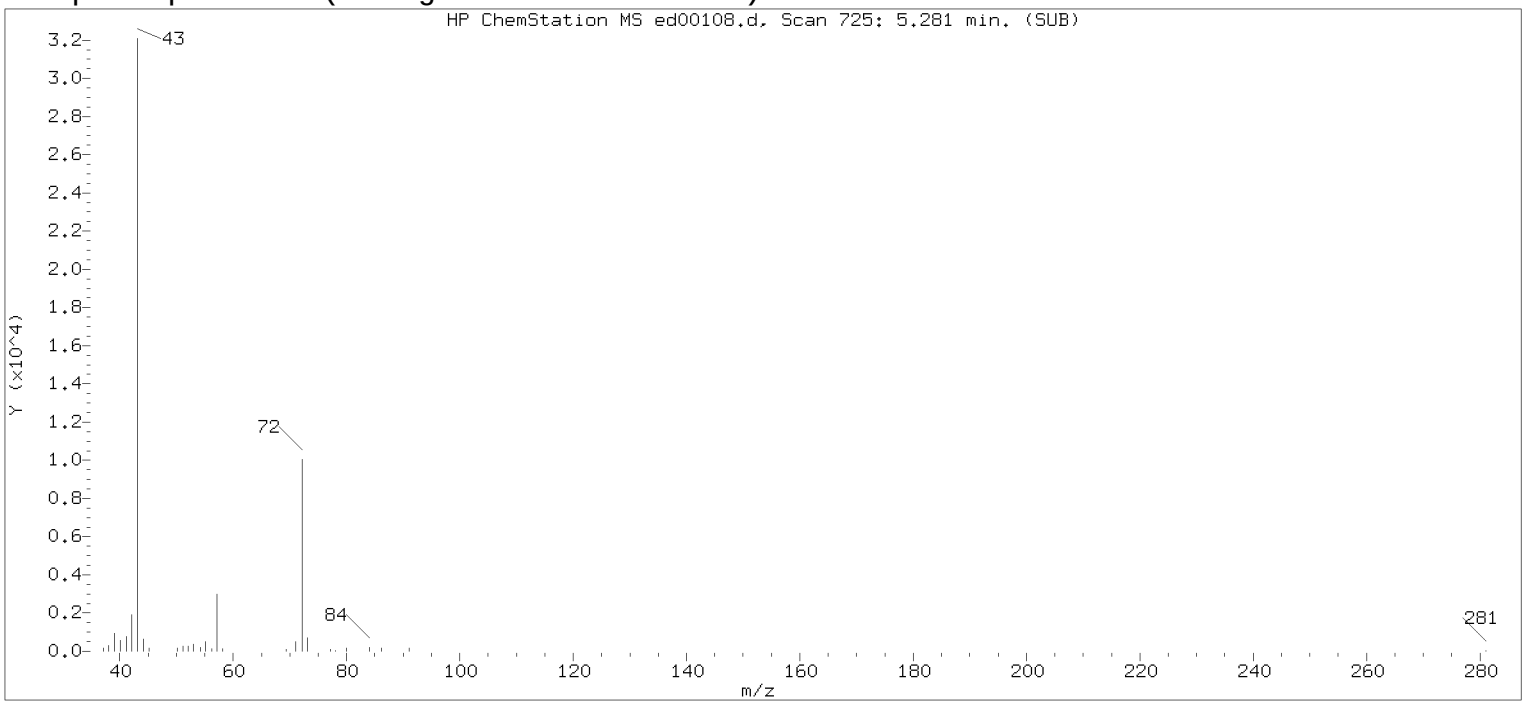
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Quant Ion : 72.00
Area (flag) : 17201M
Concentration (ppb(v)) : 1.6921
Integration start scan : 720 Integration stop scan: 732
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

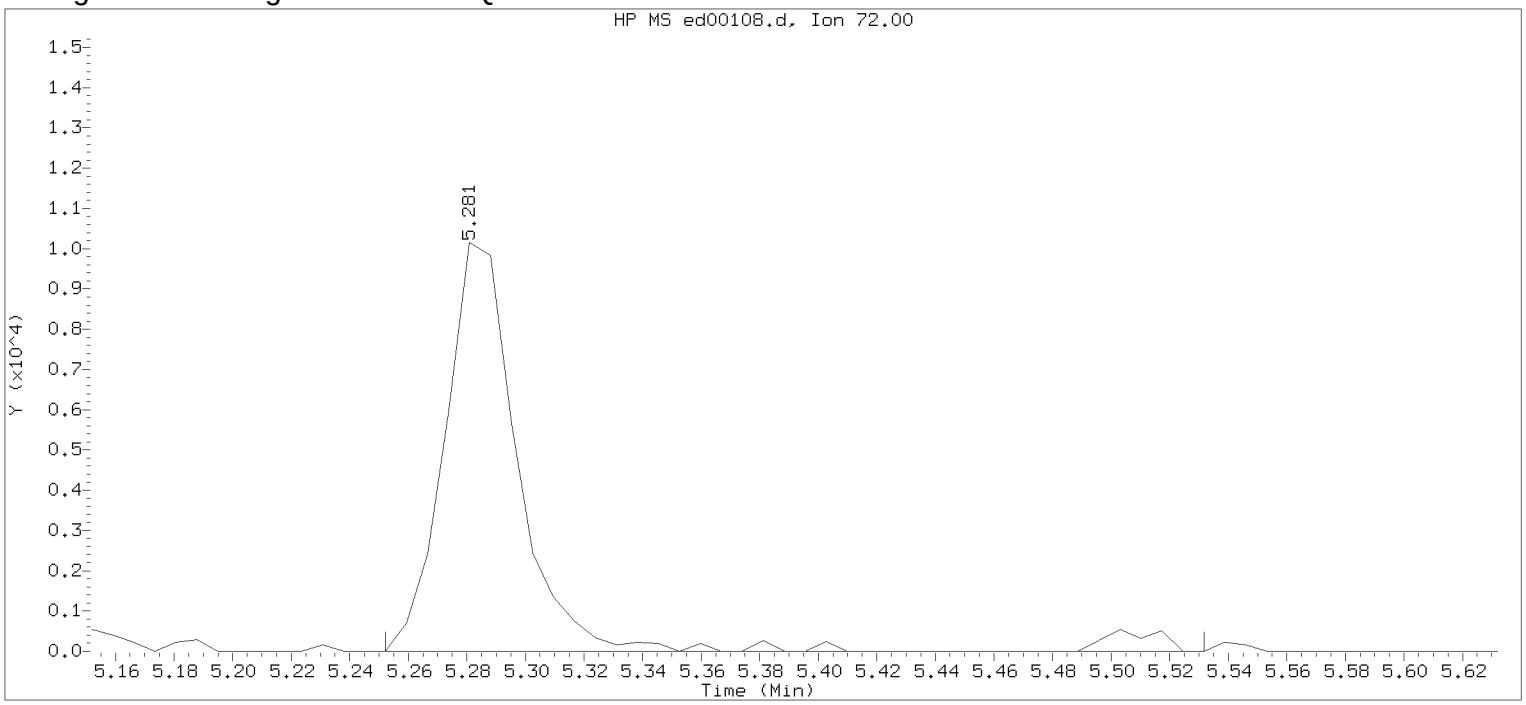
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

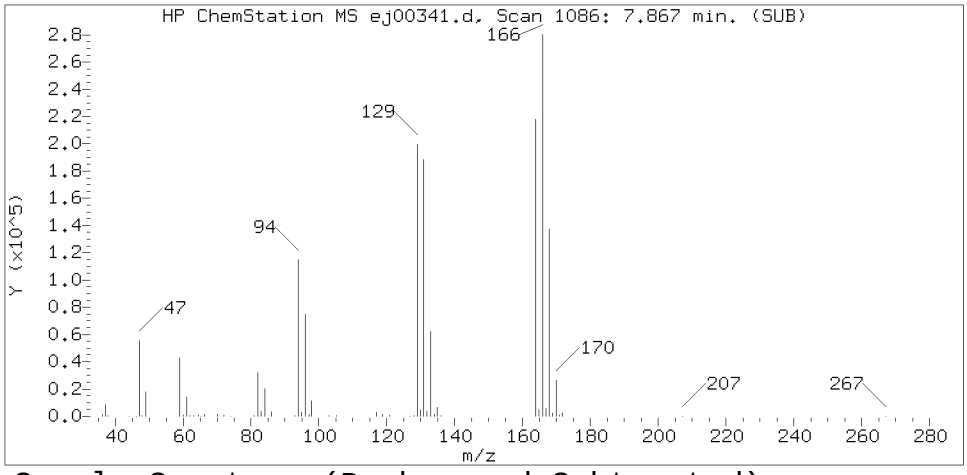
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 11:23 Unknown

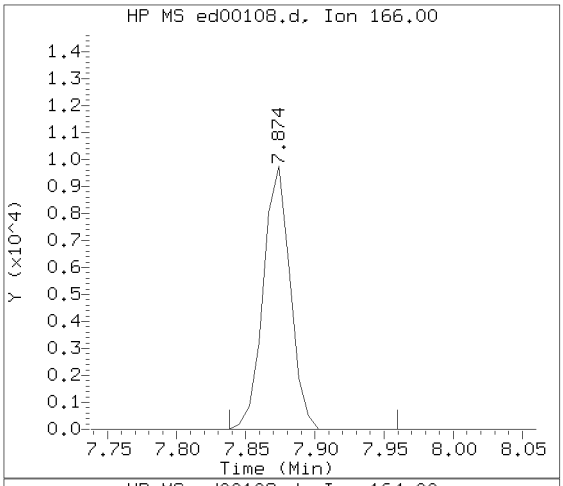
Sample Name: DKOA1 Lab Sample ID: 8906226

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Quant Ion : 72.00
Area : 18293
Concentration (ppb(v)) : 1.7994
Integration start scan : 720 Integration stop scan: 759
Y at integration start : 0 Y at integration end: 0

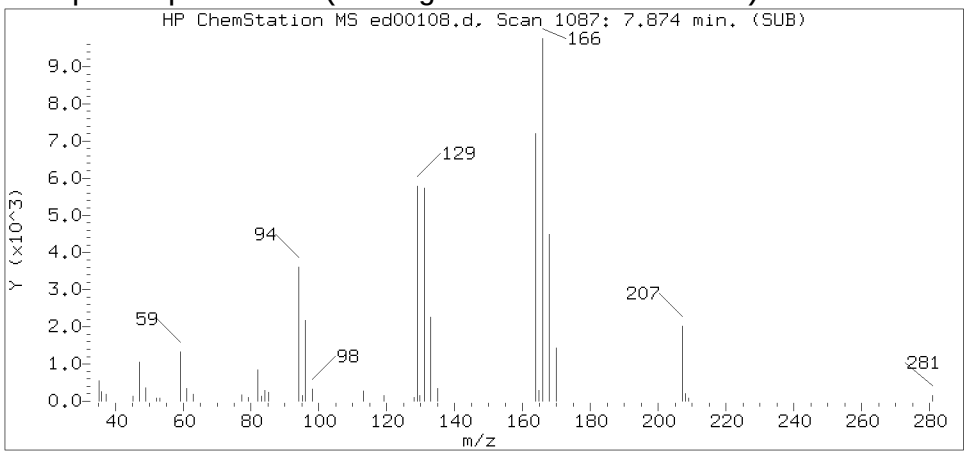
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

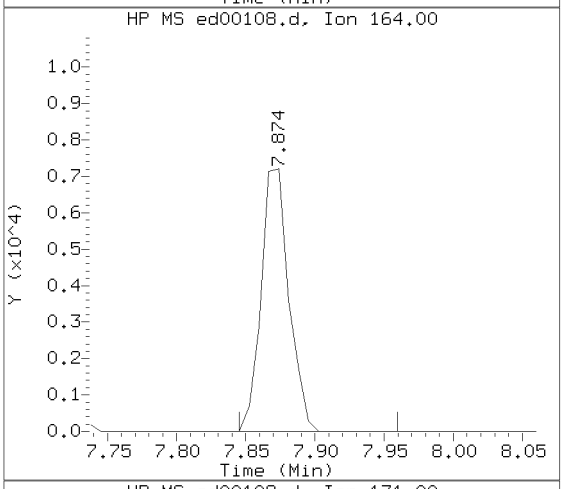
Reference Standard Spectrum for Tetrachloroethene



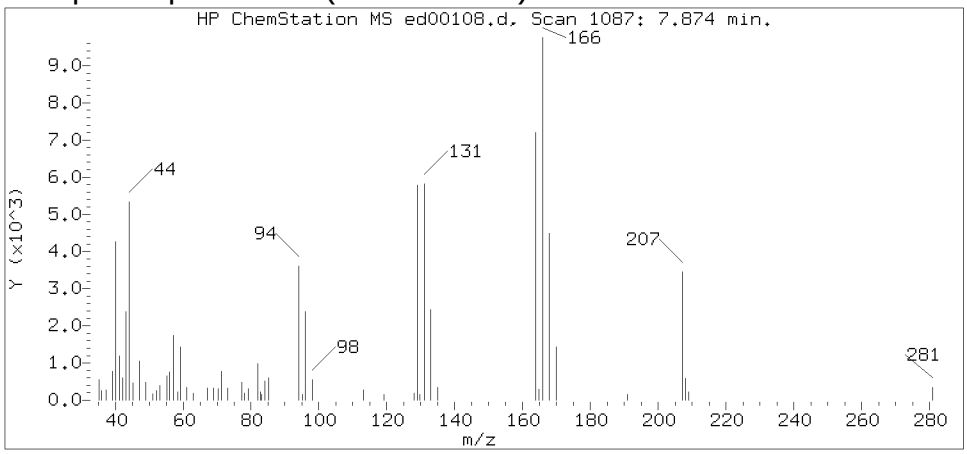


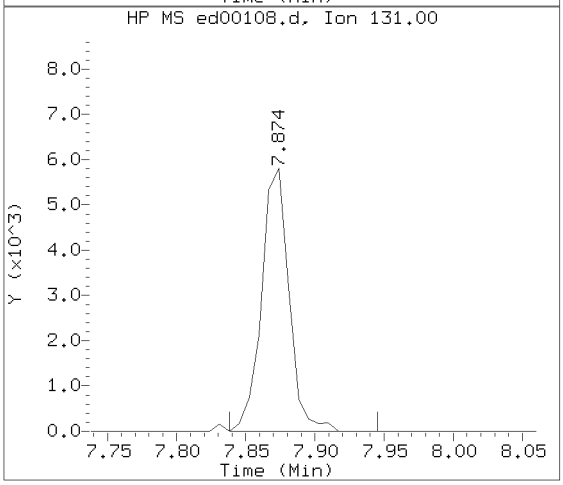
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00108.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:06 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:52 jeb07445

Sample Name: DKOA1 Lab Sample ID: 8906226

Compound Number : 67
Compound Name : Tetrachloroethene
Scan Number : 1087
Retention Time (minutes): 7.874
Relative Retention Time :-0.00000
Quant Ion : 166.00
Area (flag) : 13167
Concentration (ppb(v)) : 0.2470

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:58.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906227
Canister ID:	1406	Lab File ID:	ed00109.d
Pressure Received:	25.5 psia	Date Collected:	03/22/2017
Final Pressure:	12.7 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	23:50
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	3.4	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	3.0	J
109-66-0	Pentane	0.77	J
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	40	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	5.8	J
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906227
Canister ID:	1406	Lab File ID:	ed00109.d
Pressure Received:	25.5 psia	Date Collected:	03/22/2017
Final Pressure:	12.7 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	23:50
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.66	J
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	0.89	J
111-65-9	Octane	0.93	U
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	2.0	U
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906227
Canister ID:	1406	Lab File ID:	ed00109.d
Pressure Received:	25.5 psia	Date Collected:	03/22/2017
Final Pressure:	12.7 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	400 cc	Analyzed Time:	23:50
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906227

Data file: /chem/HP22820.i/17apr06.b/ed00109.d Injection date and time: **06-APR-2017 23:50**
Data file Sample Info. Line: 8906227;400;E1709630AA;DKOA2;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.5 psia Canister Pressure before dilution (Ya): 12.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	191385 (-13)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.291(0.007)	866	114	751679 (-10)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	744459 (-9)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.628(0.003)	85	32894	0.683	0.68		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.759(0.001)	101	27990	0.540	0.54		J	0.2	1
13) Pentane	(1)	2.845(0.004)	43	7099	0.262	0.26		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.518(0.003)	43	368149	16.940	16.94			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	19598M	1.970	1.97		J	0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)	5.983(0.000)	78	14486M	0.208	0.21		J	0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	7.465(0.000)	91	21155M	0.235	0.24		J	0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)			Not Detected					0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00109.d Injection date and time: **06-APR-2017 23:50**
Data file Sample Info. Line: 8906227;400;E1709630AA;DKOA2;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

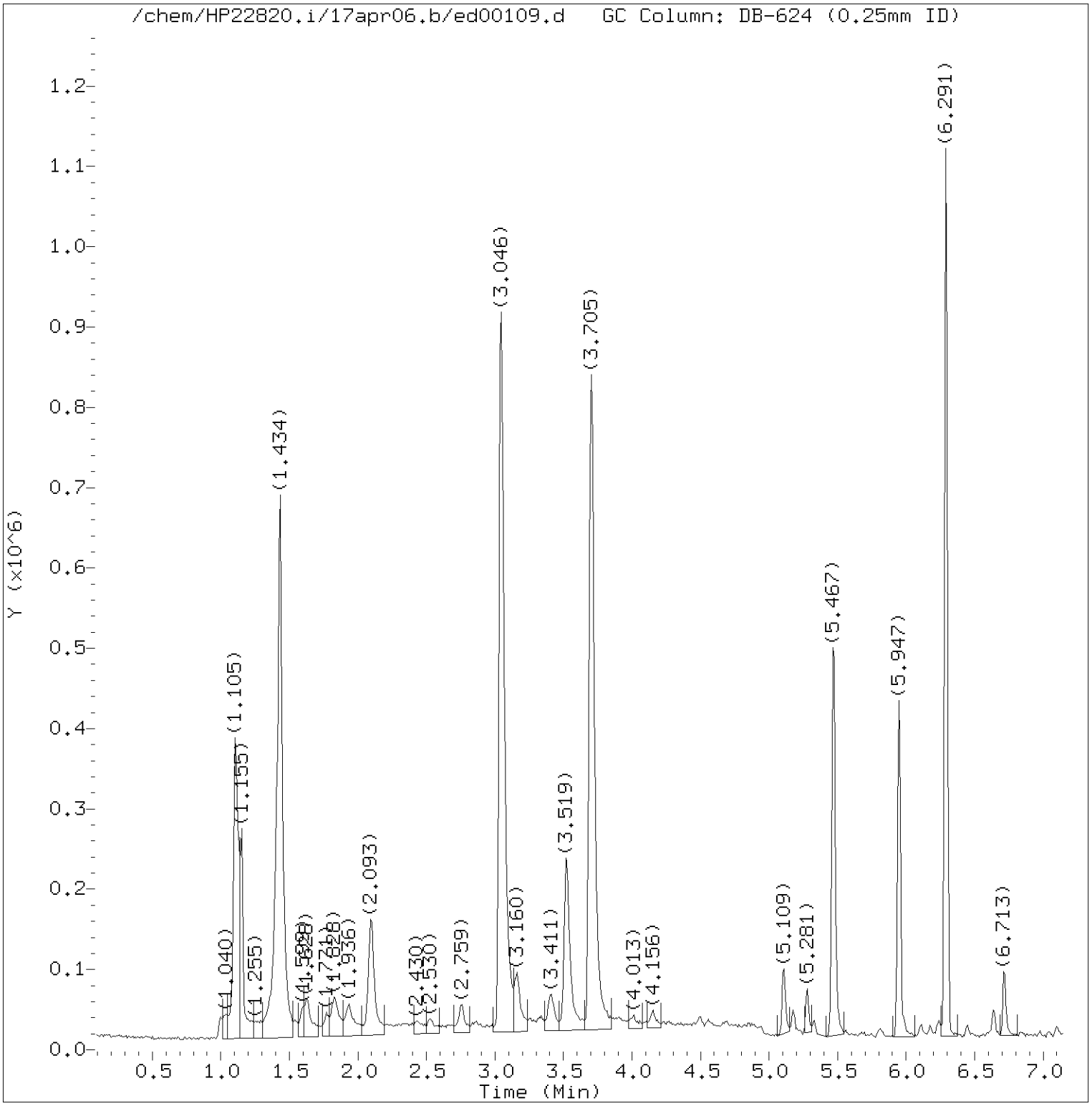
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.5 psia Canister Pressure before dilution (Ya): 12.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

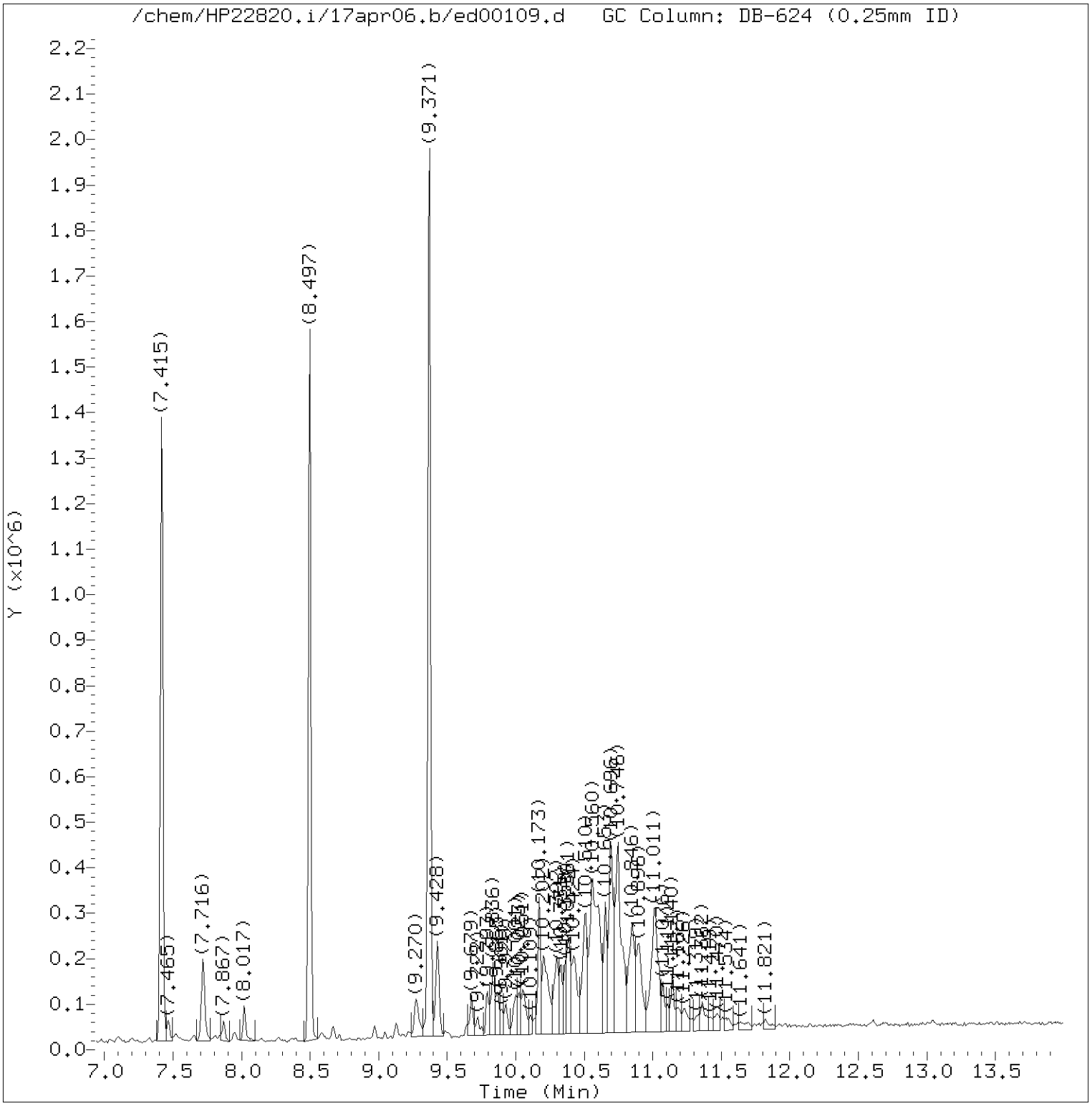
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

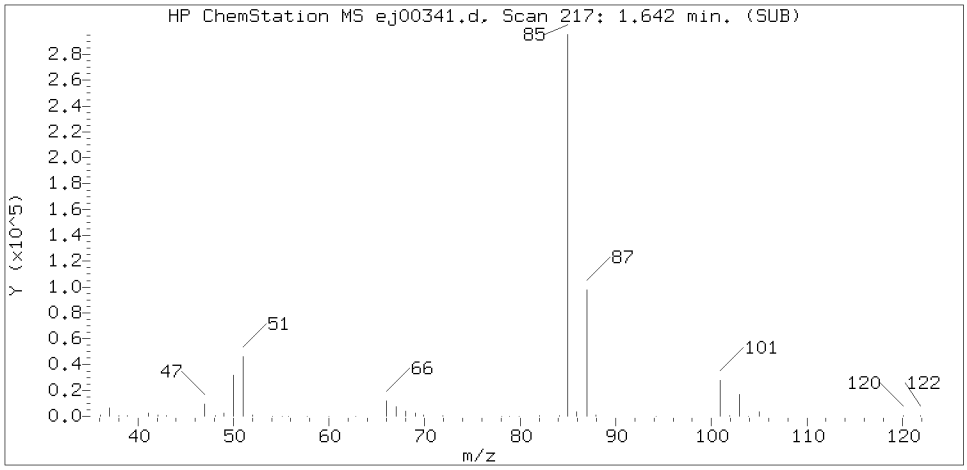
Sample Name: DKOA2 Lab Sample ID: 8906227

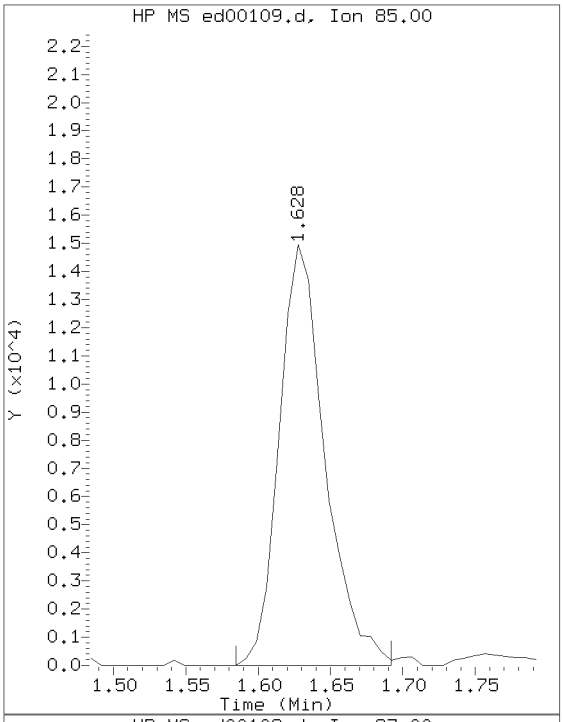
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.628	85	32894	0.683
12) Trichlorofluoromethane	(1)	2.759	101	27990	0.540
13) Pentane	(1)	2.845	43	7099	0.262
19) Acetone	(1)	3.519	43	368149	16.940
37) 2-Butanone	(1)	5.281	72	19598M	1.970
40)*Bromochloromethane	(1)	5.474	130	191385	10.000
46) Benzene	(2)	5.983	78	14486M	0.208
51)*1,4-Difluorobenzene	(2)	6.291	114	751679	10.000
61) Toluene	(3)	7.465	91	21155M	0.235
71)*Chlorobenzene-d5	(3)	8.497	117	744459	10.000

M = Compound was manually integrated.
* = Compound is an internal standard.

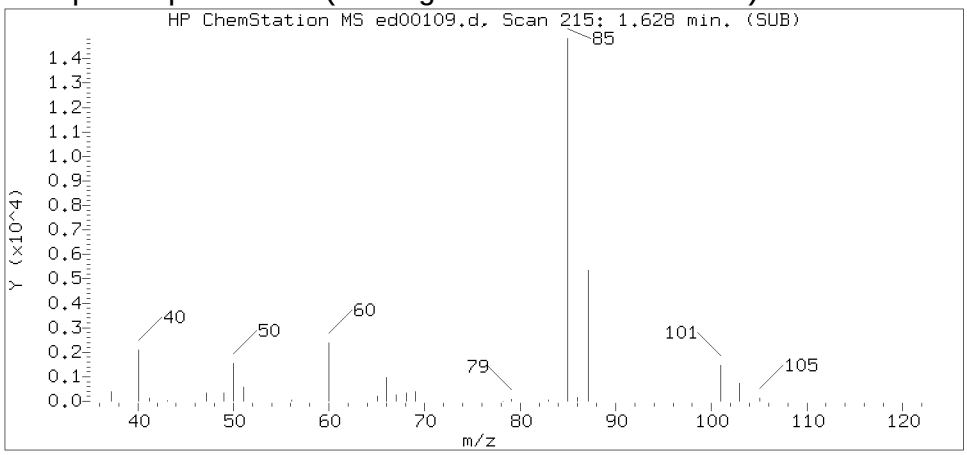
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

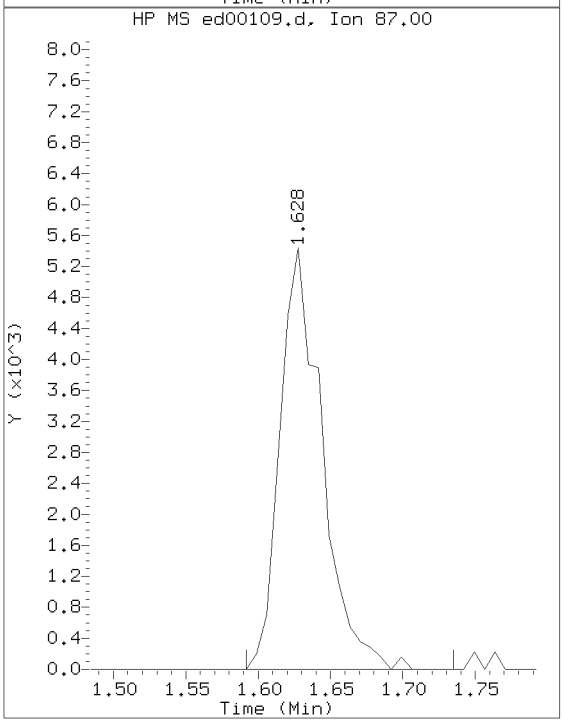
Reference Standard Spectrum for Dichlorodifluoromethane



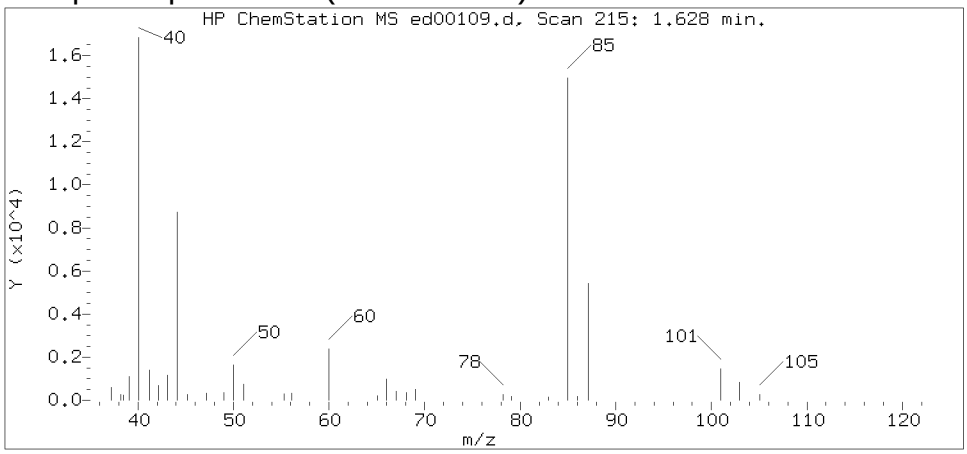


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

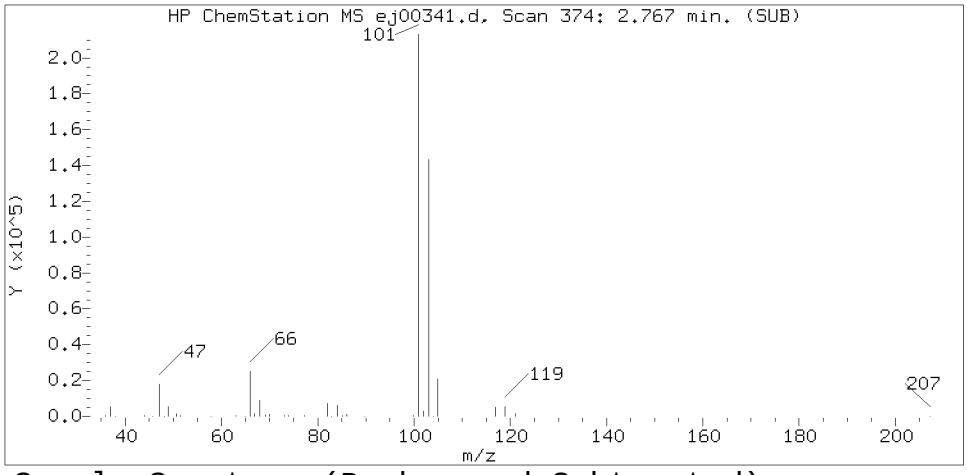
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

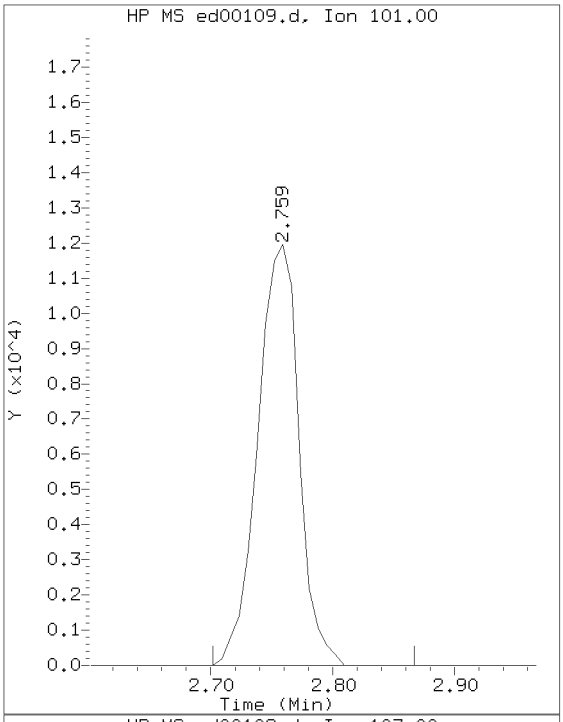
Sample Name: DKOA2 Lab Sample ID: 8906227

Compound Number	: 2
Compound Name	: Dichlorodifluoromethane
Scan Number	: 215
Retention Time (minutes)	: 1.628
Relative Retention Time	: 0.00303
Quant Ion	: 85.00
Area (flag)	: 32894
Concentration (ppb(v))	: 0.6826

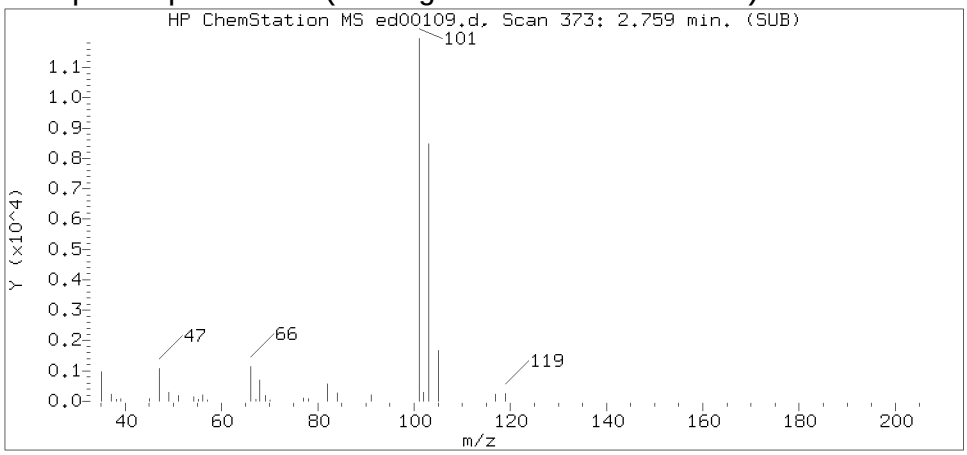
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

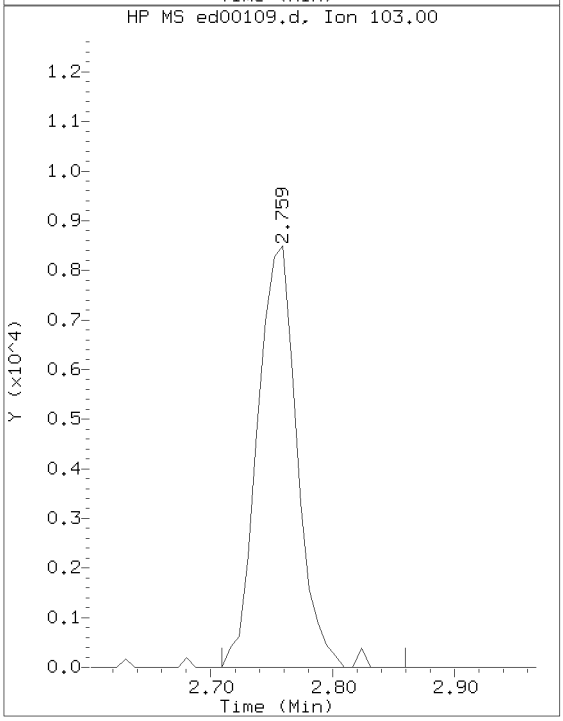
Reference Standard Spectrum for Trichlorofluoromethane



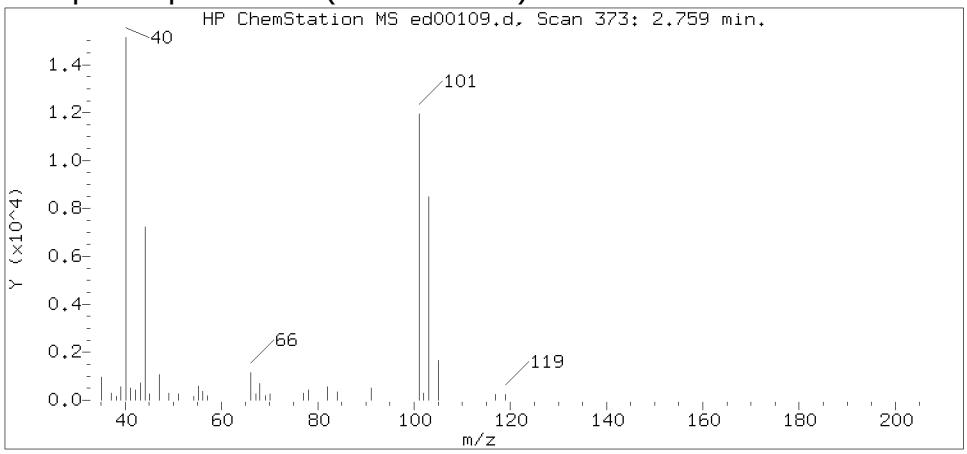


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

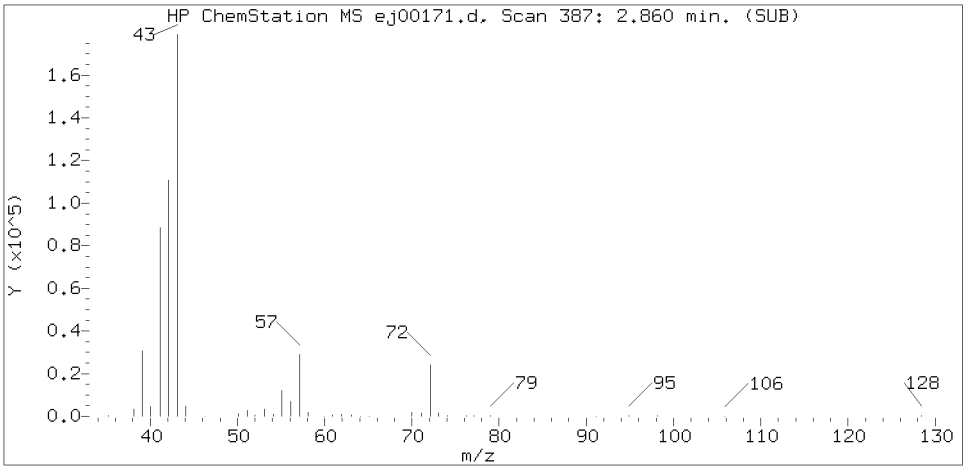
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

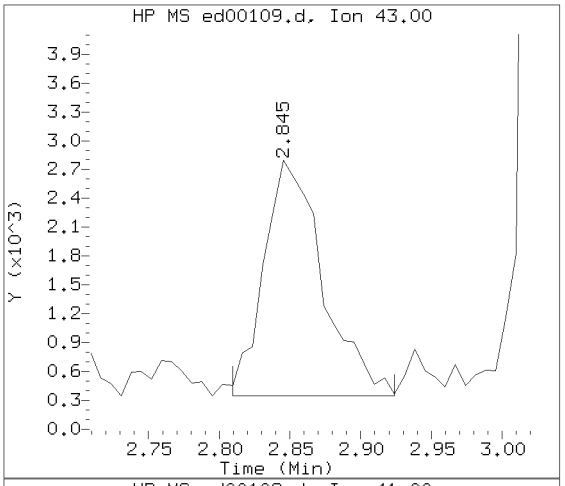
Sample Name: DKOA2 Lab Sample ID: 8906227

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 373
Retention Time (minutes): 2.759
Relative Retention Time : 0.00199
Quant Ion : 101.00
Area (flag) : 27990
Concentration (ppb(v)) : 0.5398

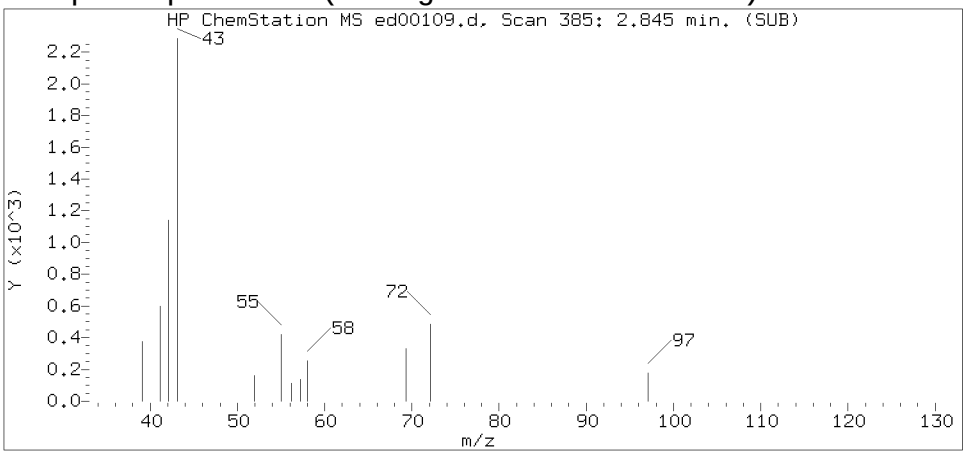
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

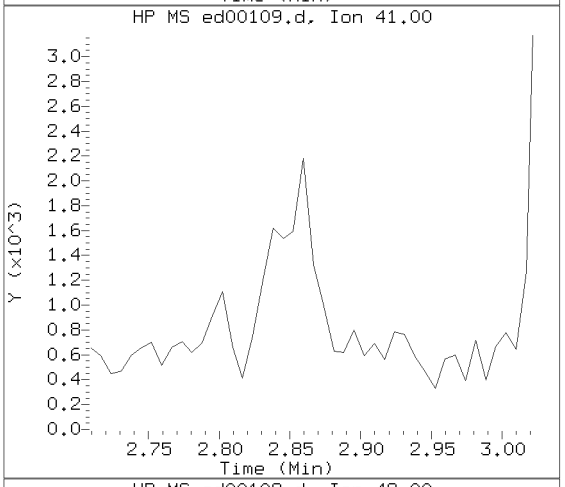
Reference Standard Spectrum for Pentane



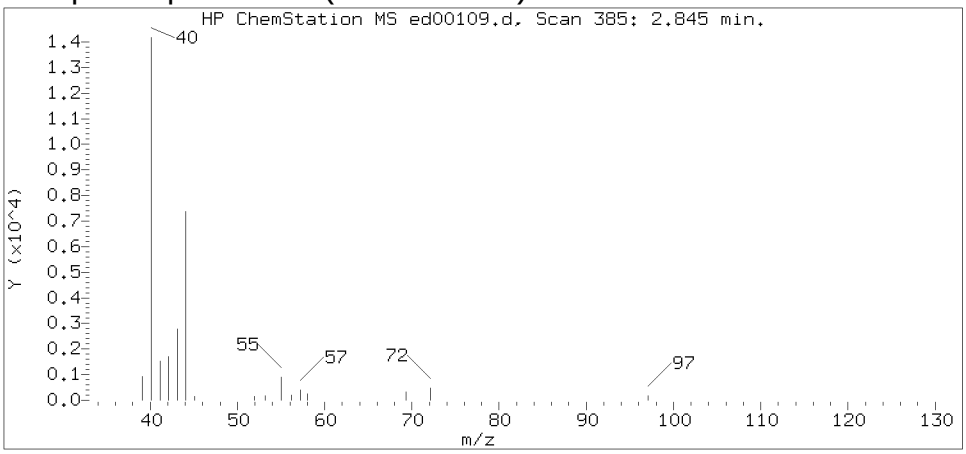


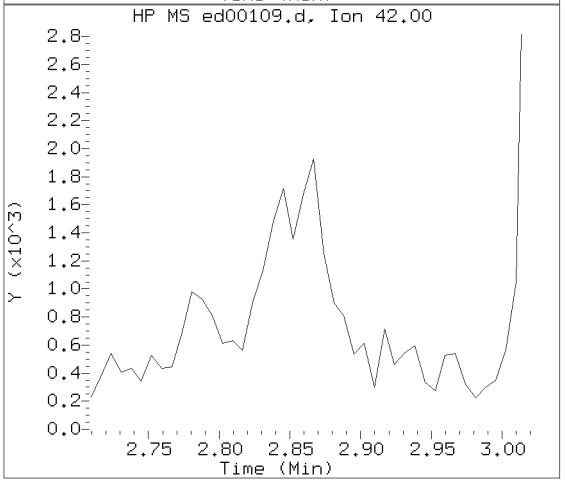
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

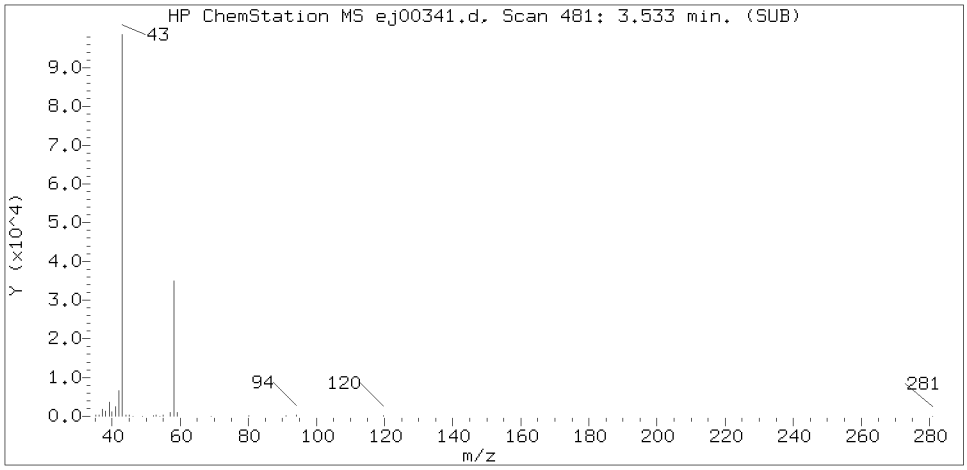
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

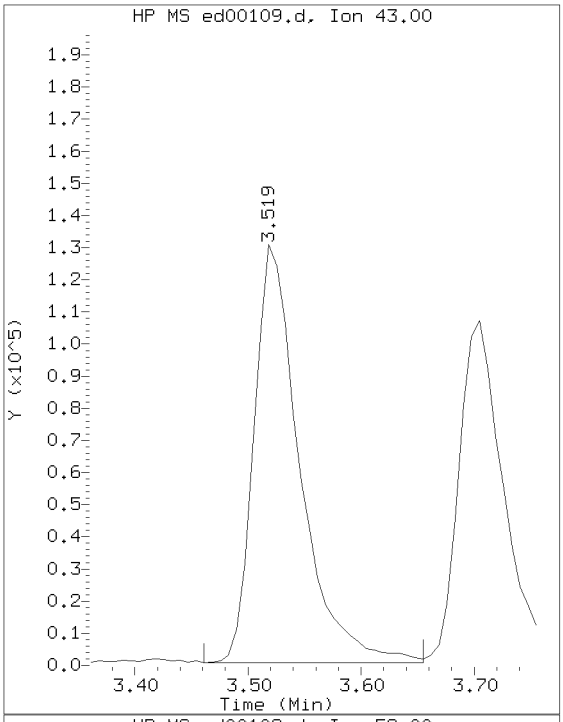
Sample Name: DKOA2 Lab Sample ID: 8906227

Compound Number : 13
Compound Name : Pentane
Scan Number : 385
Retention Time (minutes): 2.845
Relative Retention Time : 0.00463
Quant Ion : 43.00
Area (flag) : 7099
Concentration (ppb(v)) : 0.2618

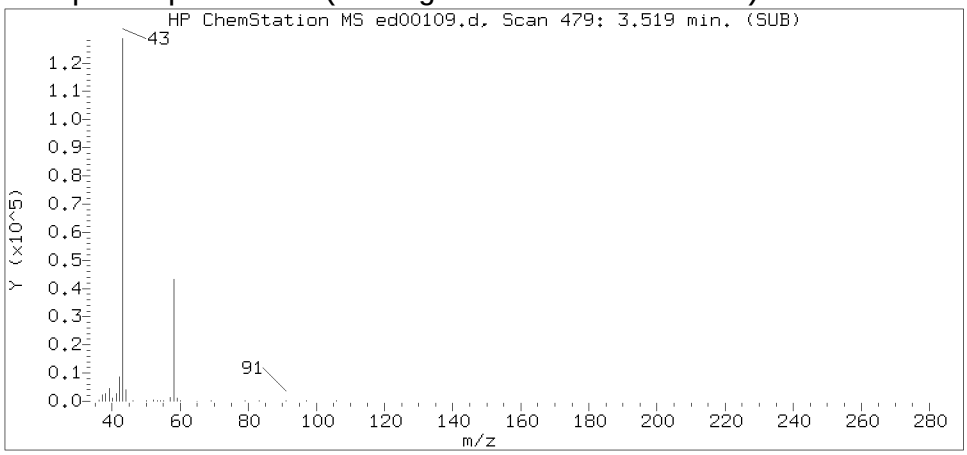
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

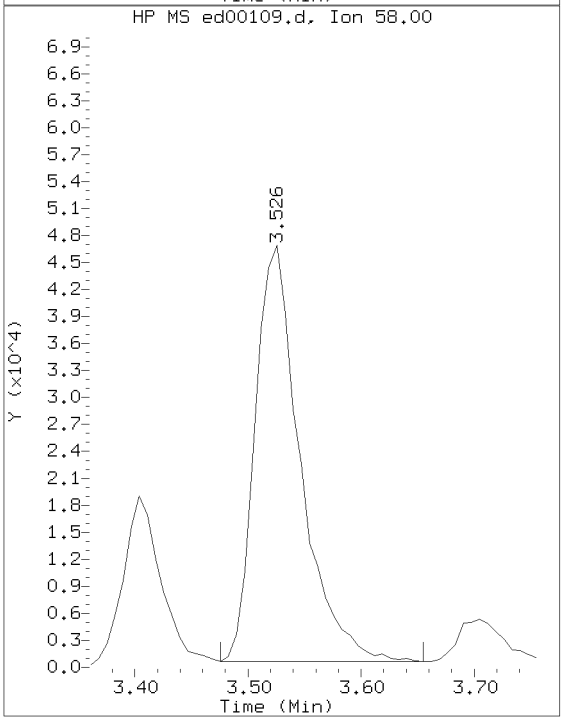
Reference Standard Spectrum for Acetone



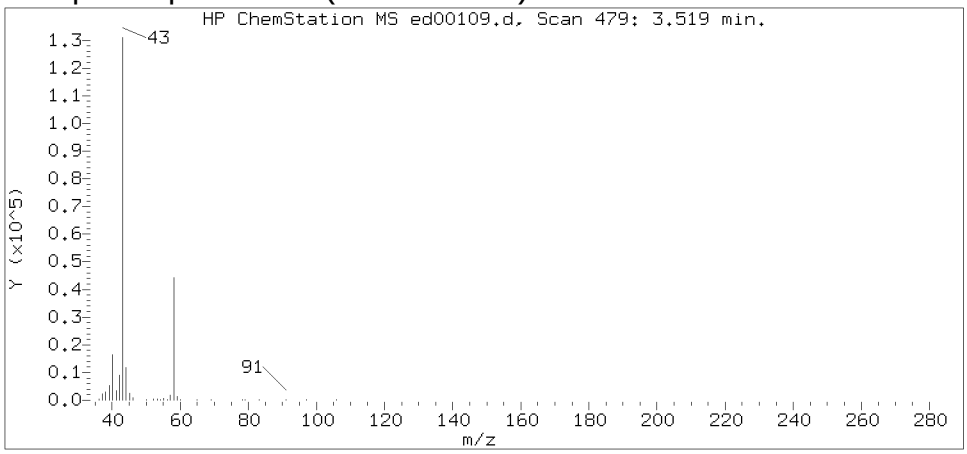


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

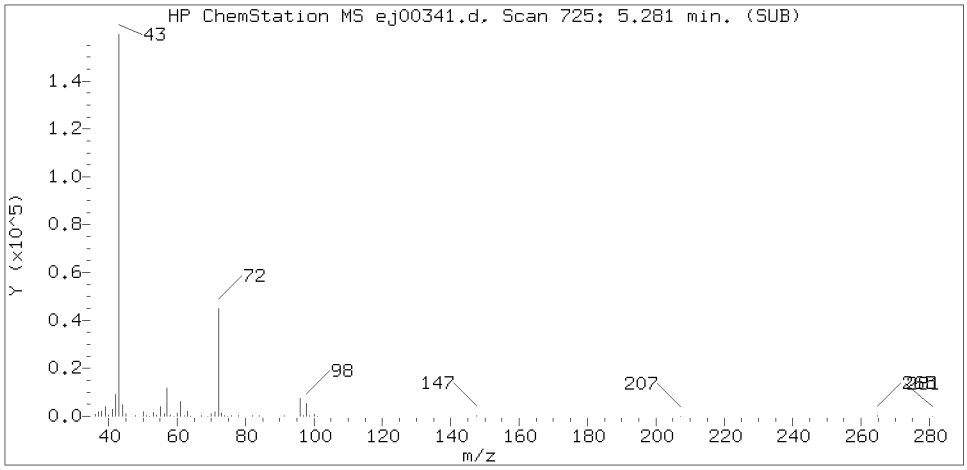
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

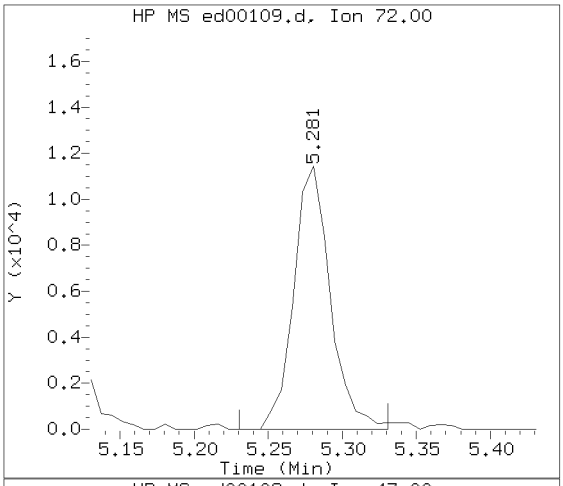
Sample Name: DKOA2 Lab Sample ID: 8906227

Compound Number : 19
Compound Name : Acetone
Scan Number : 479
Retention Time (minutes): 3.519
Relative Retention Time : 0.00348
Quant Ion : 43.00
Area (flag) : 368149
Concentration (ppb(v)) : 16.9402

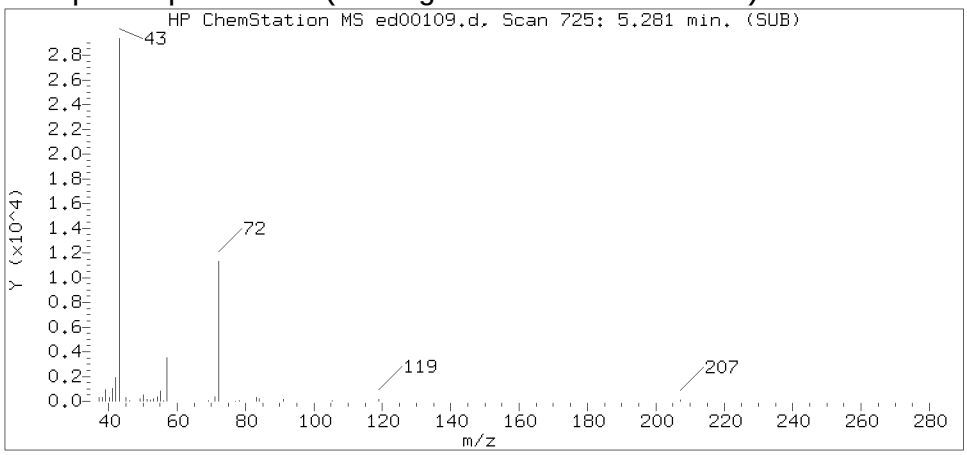
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

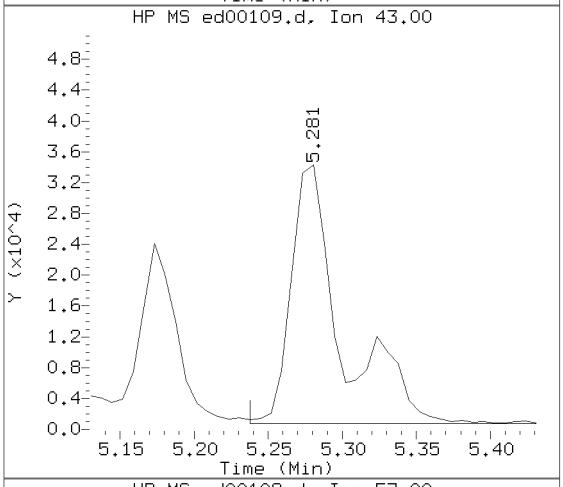
Reference Standard Spectrum for 2-Butanone



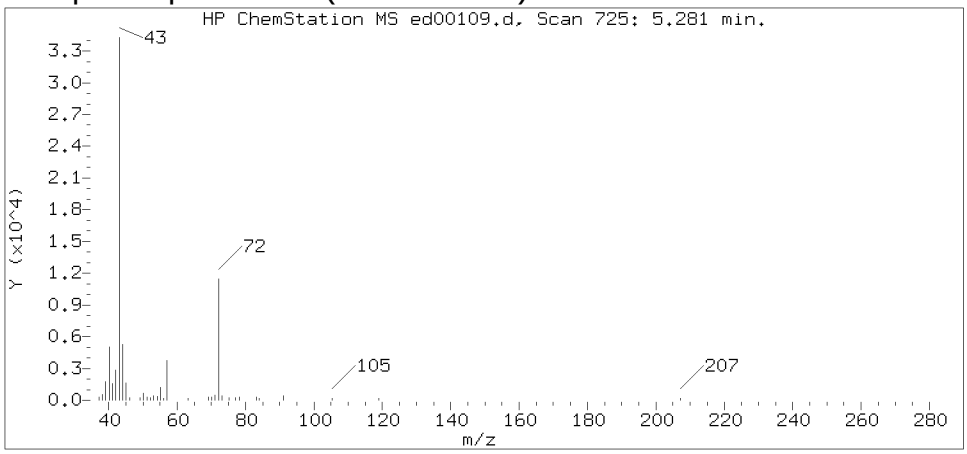


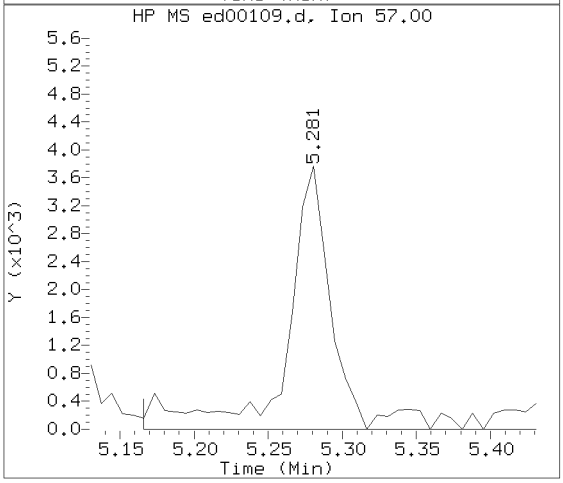
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

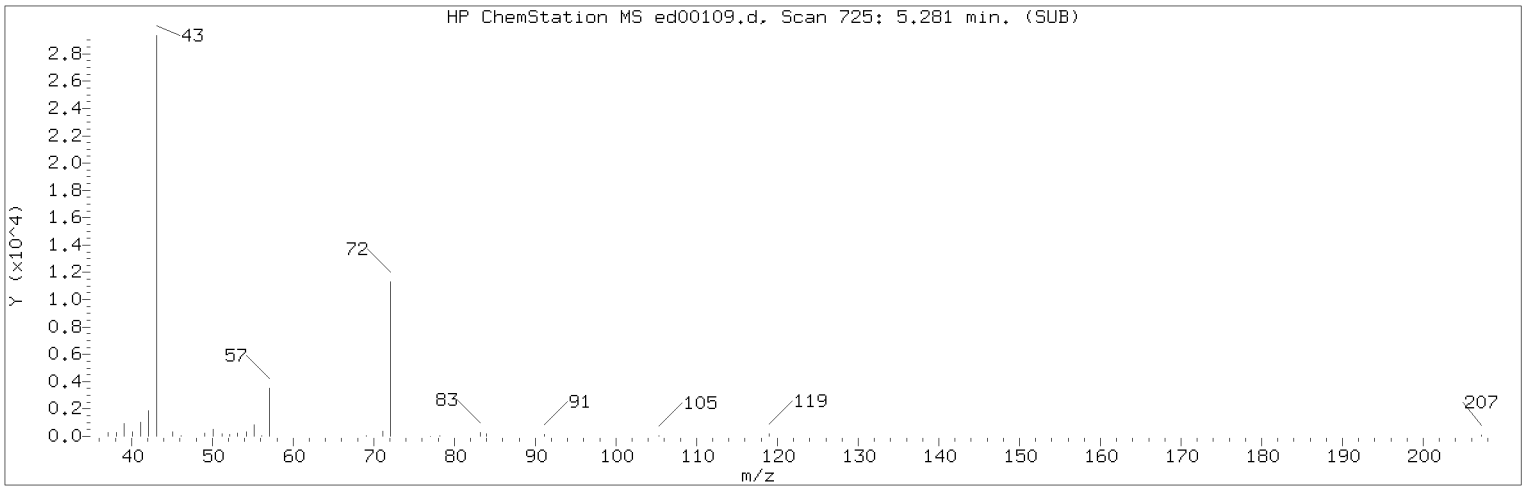
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

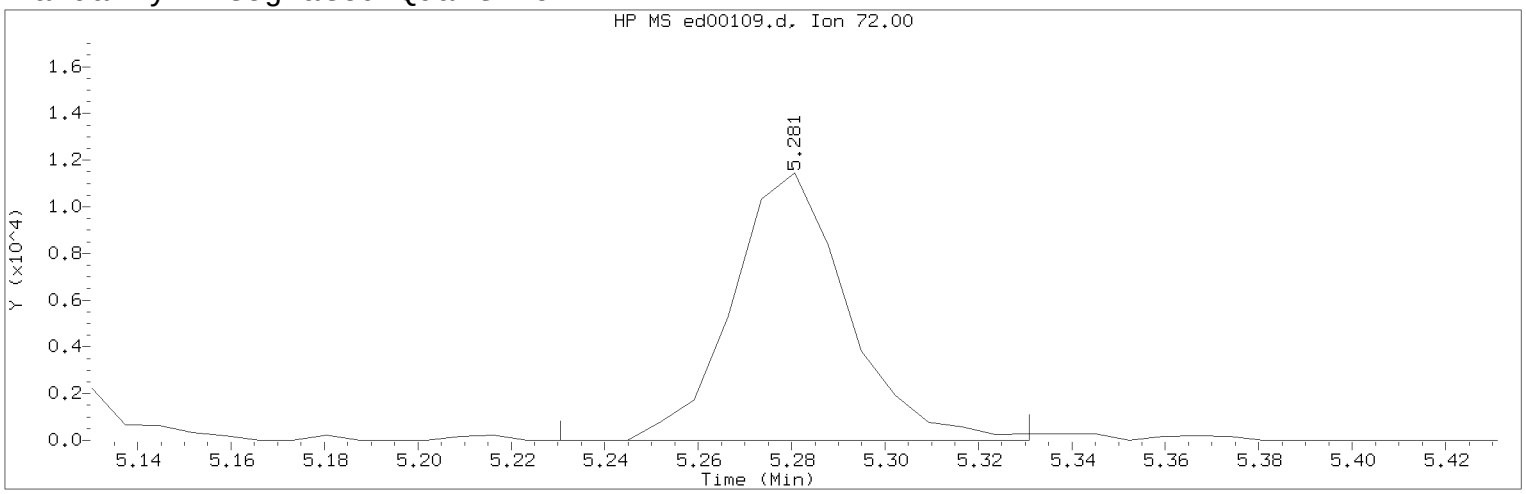
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00127
Quant Ion : 72.00
Area (flag) : 19598M
Concentration (ppb(v)) : 1.9700

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

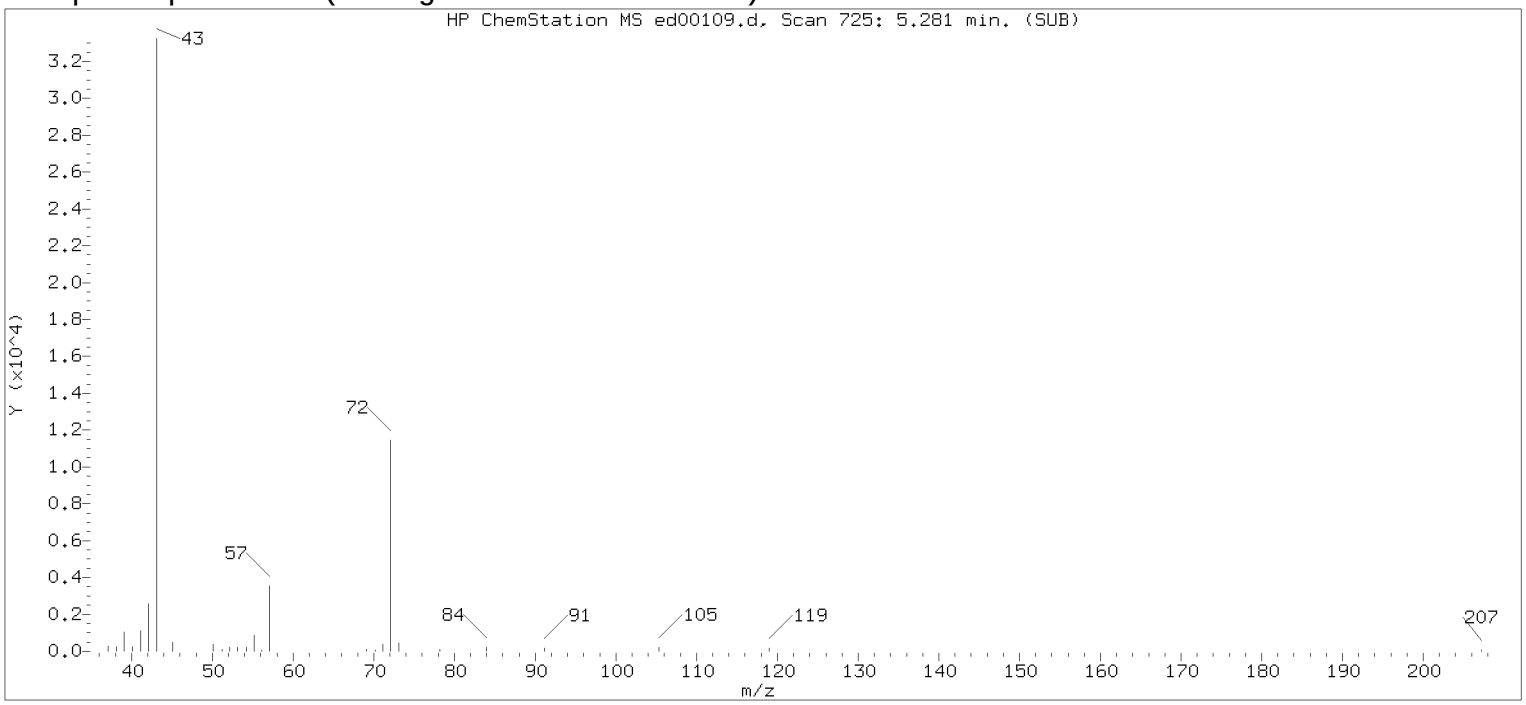
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Quant Ion : 72.00
Area (flag) : 19598M
Concentration (ppb(v)) : 1.9700
Integration start scan : 717 Integration stop scan: 731
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

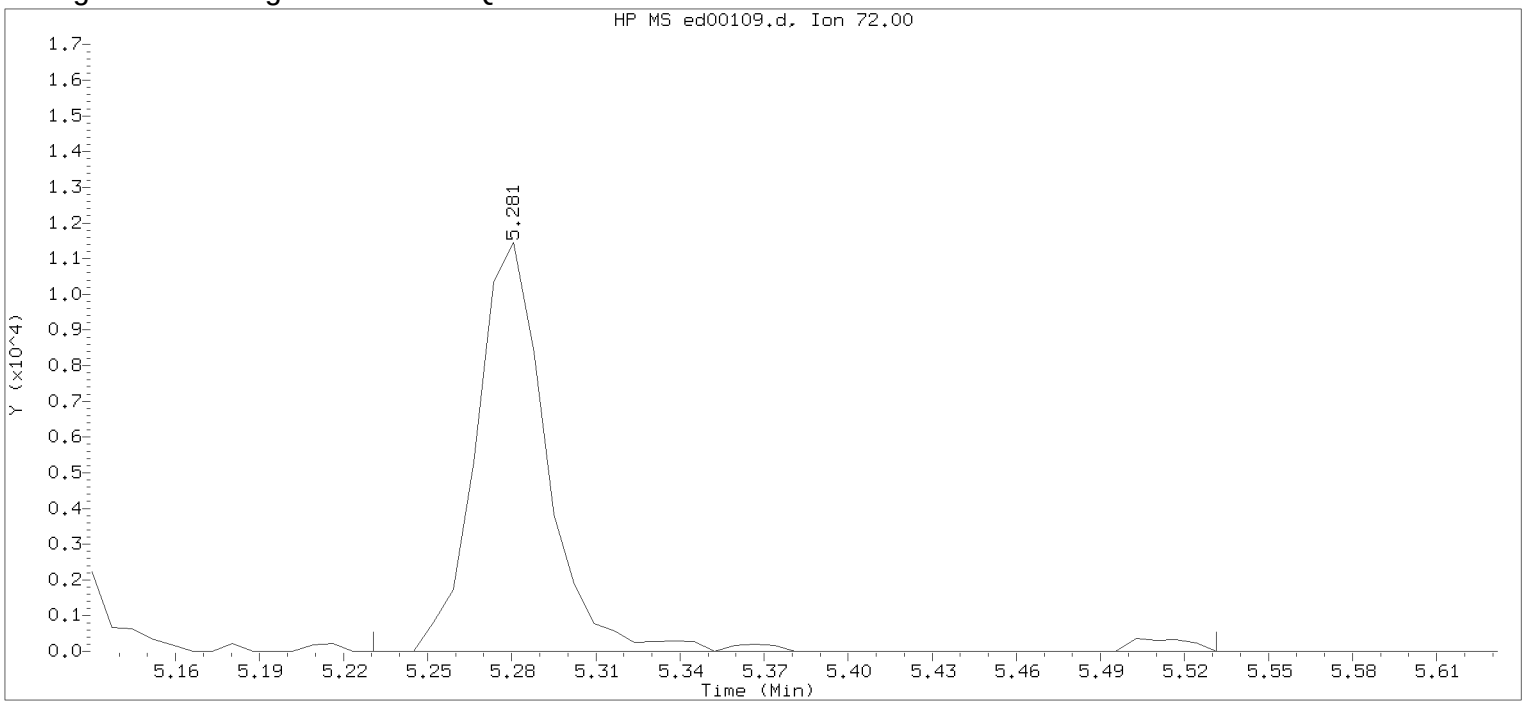
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

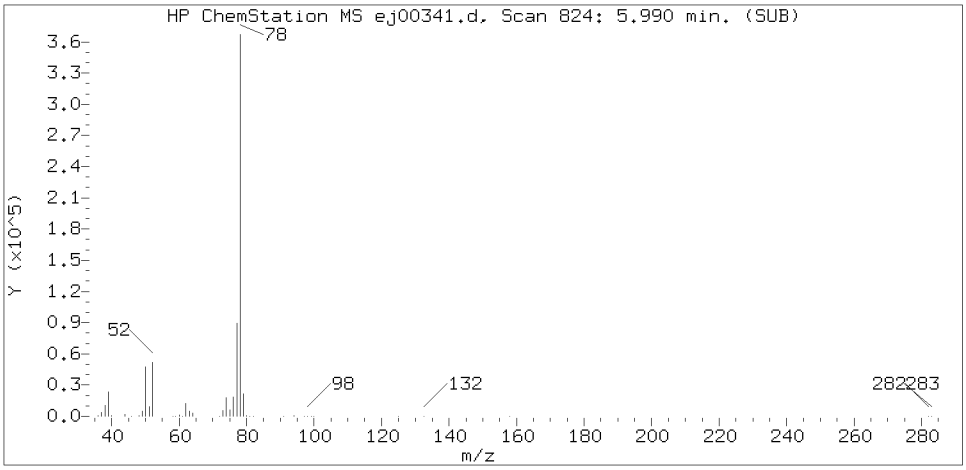
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 12:07 Unknown

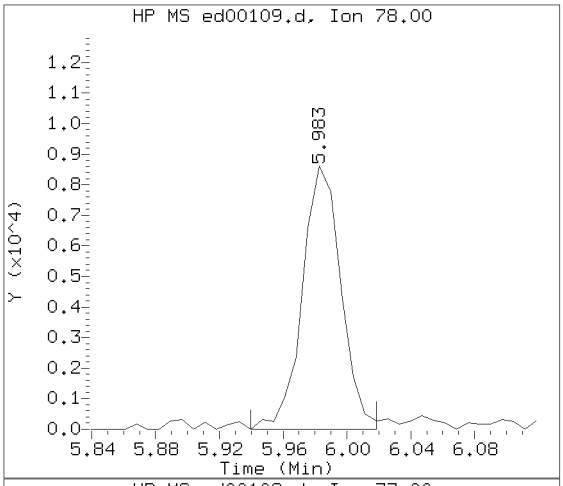
Sample Name: DKOA2 Lab Sample ID: 8906227

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Quant Ion : 72.00
Area : 20580
Concentration (ppb(v)) : 2.0687
Integration start scan : 717 Integration stop scan: 759
Y at integration start : 0 Y at integration end: 0

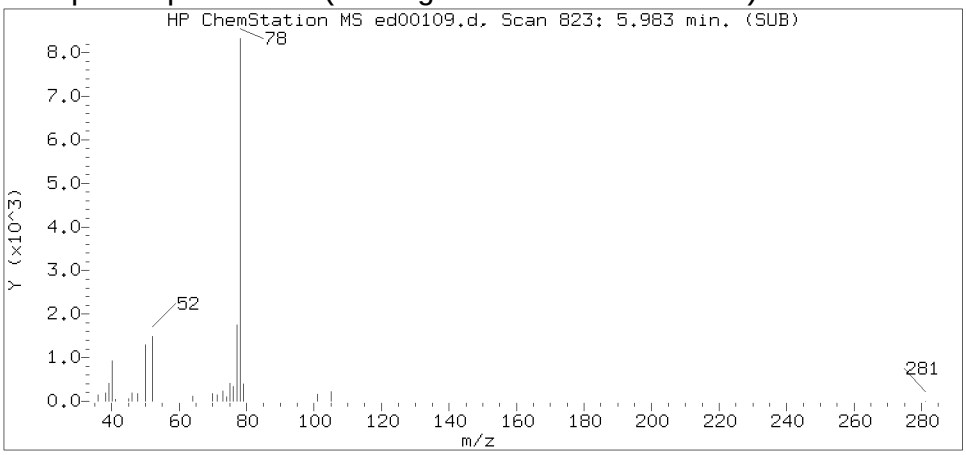
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

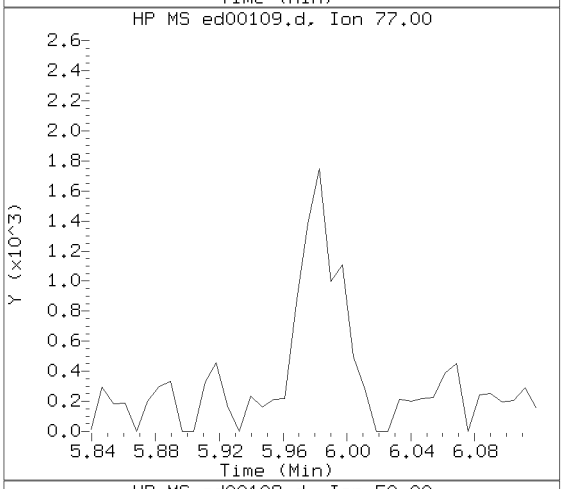
Reference Standard Spectrum for Benzene



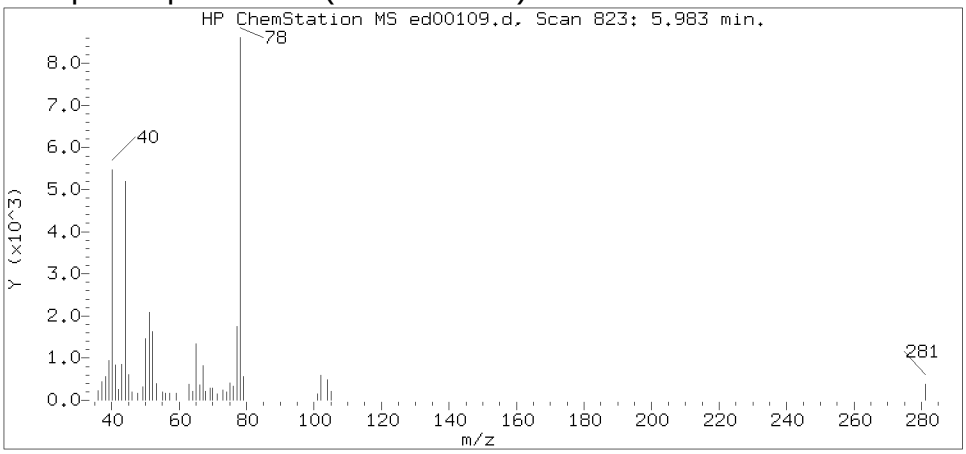


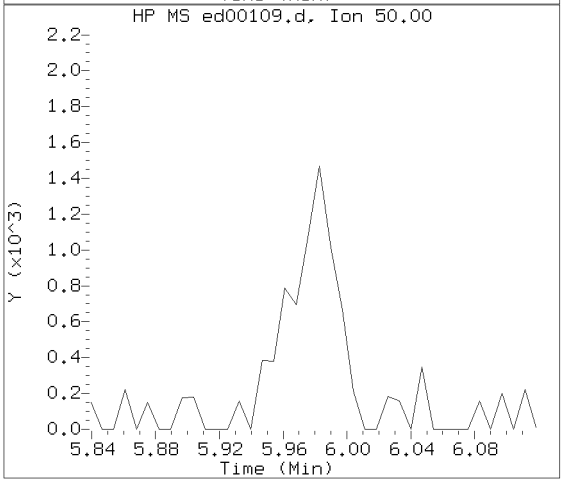
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

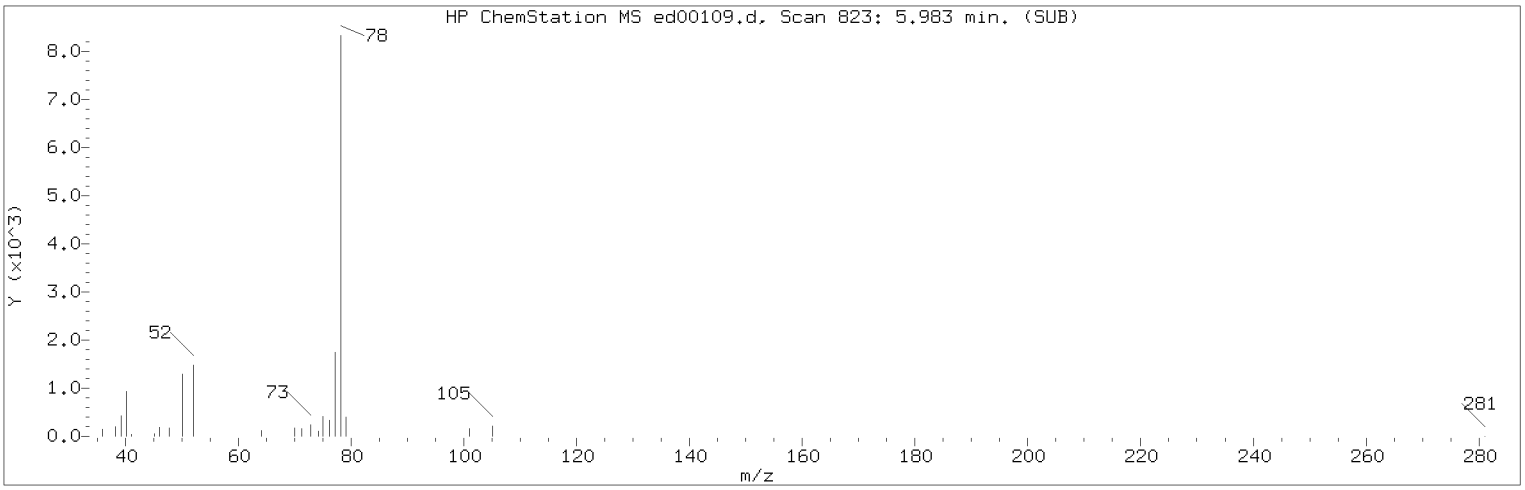
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

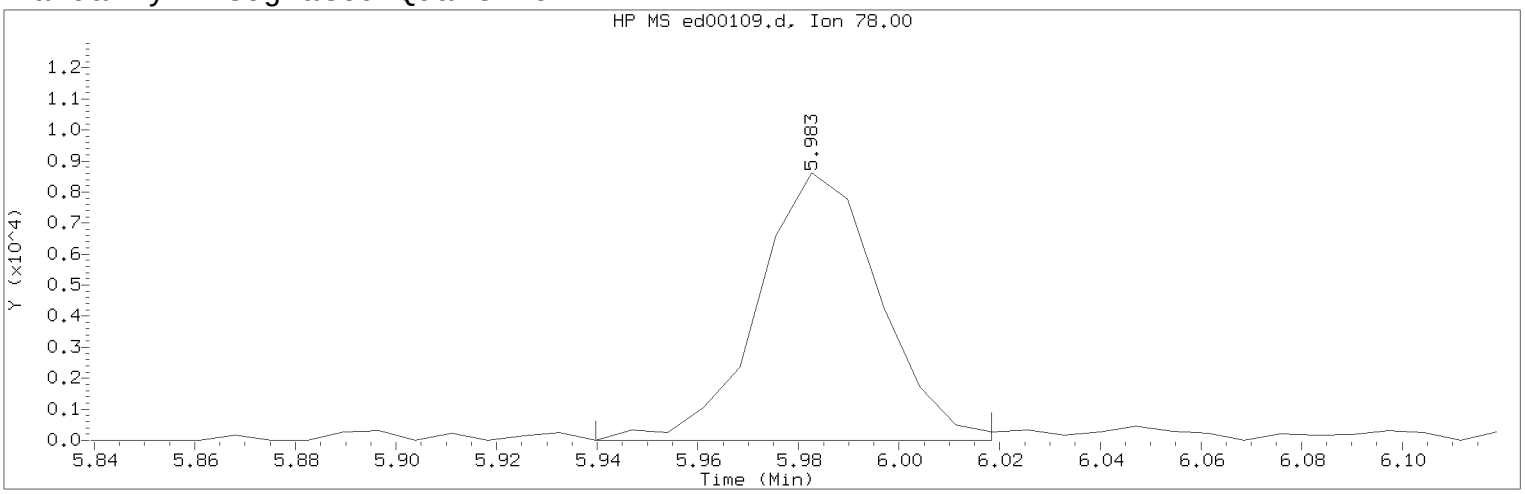
Compound Number : 46
Compound Name : Benzene
Scan Number : 823
Retention Time (minutes): 5.983
Relative Retention Time : 0.00006
Quant Ion : 78.00
Area (flag) : 14486M
Concentration (ppb(v)) : 0.2077

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

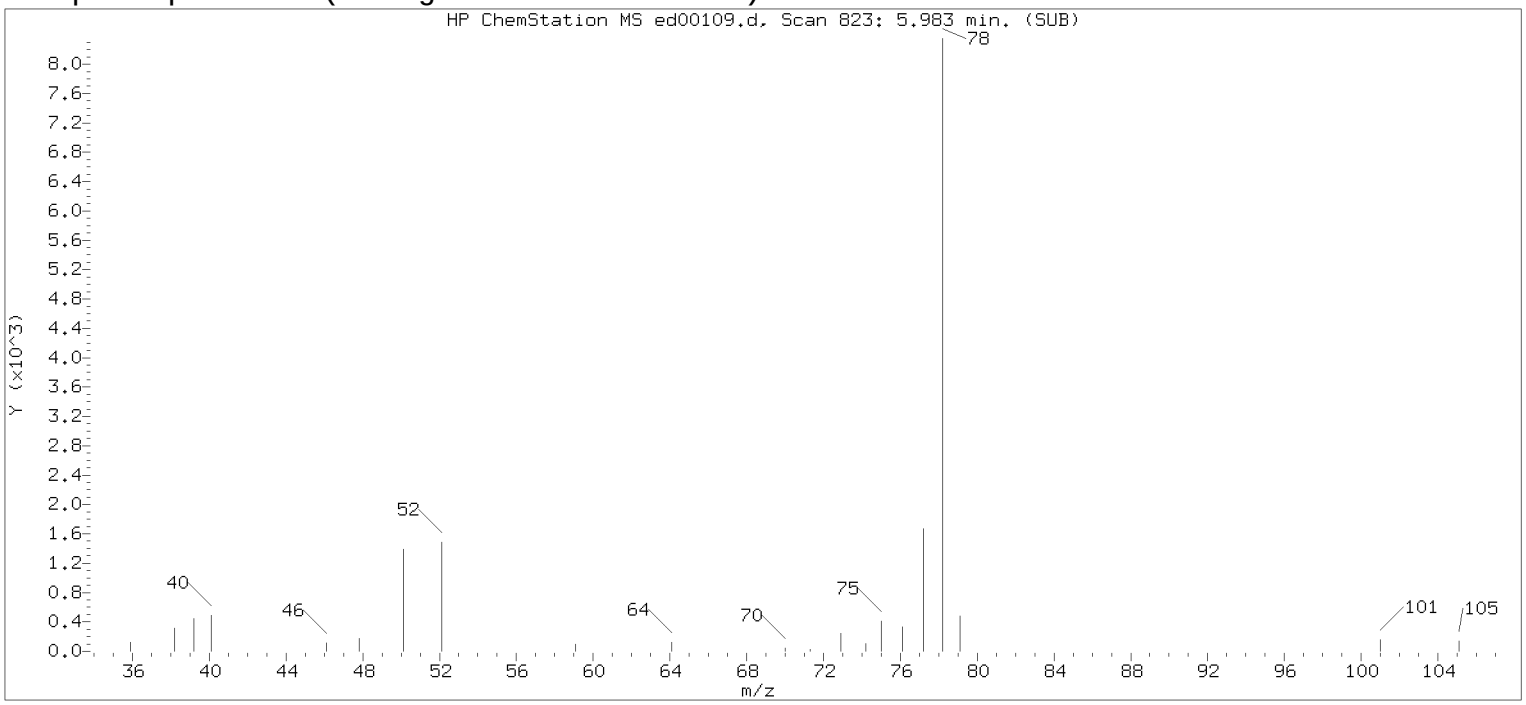
Compound Number : 46
Compound Name : Benzene
Scan Number : 823
Retention Time (minutes): 5.983
Quant Ion : 78.00
Area (flag) : 14486M
Concentration (ppb(v)) : 0.2077
Integration start scan : 816 Integration stop scan: 827
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

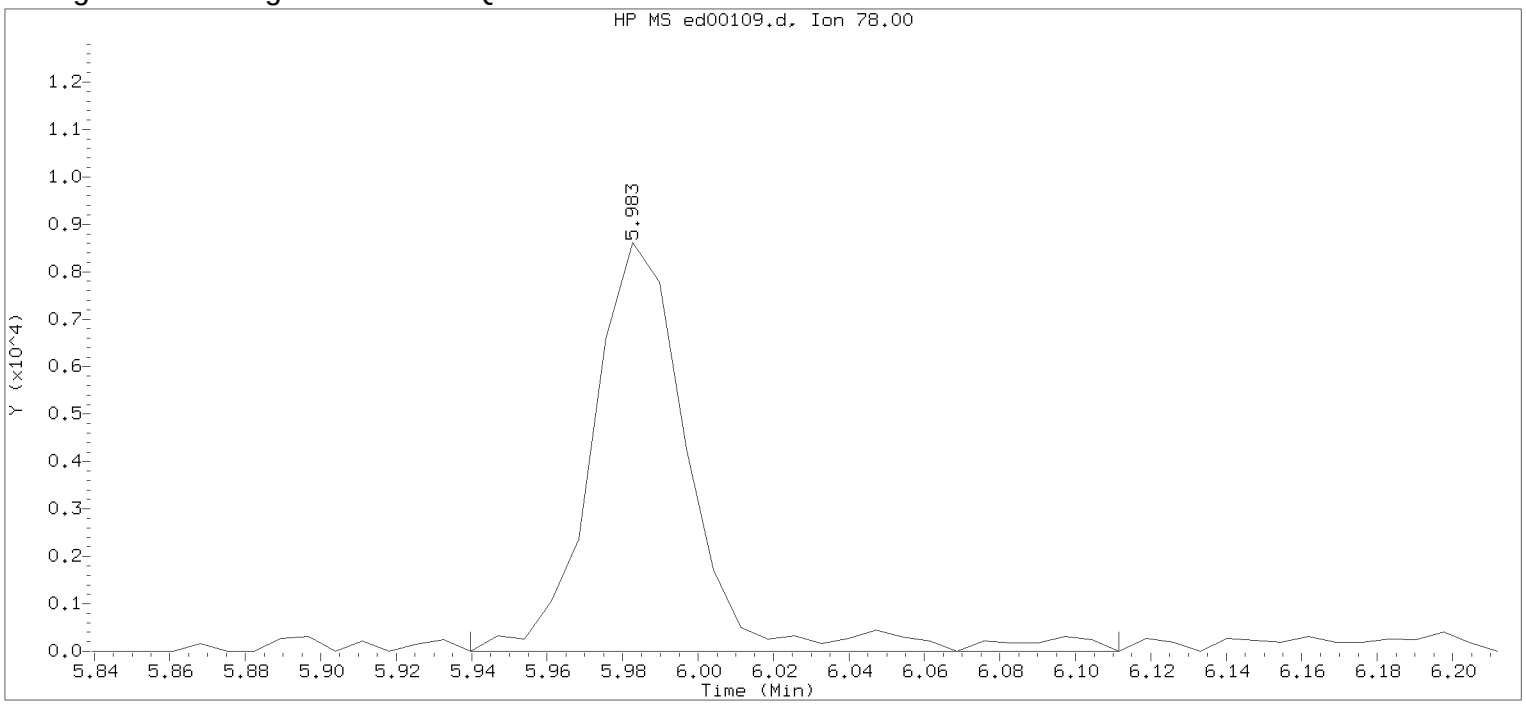
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

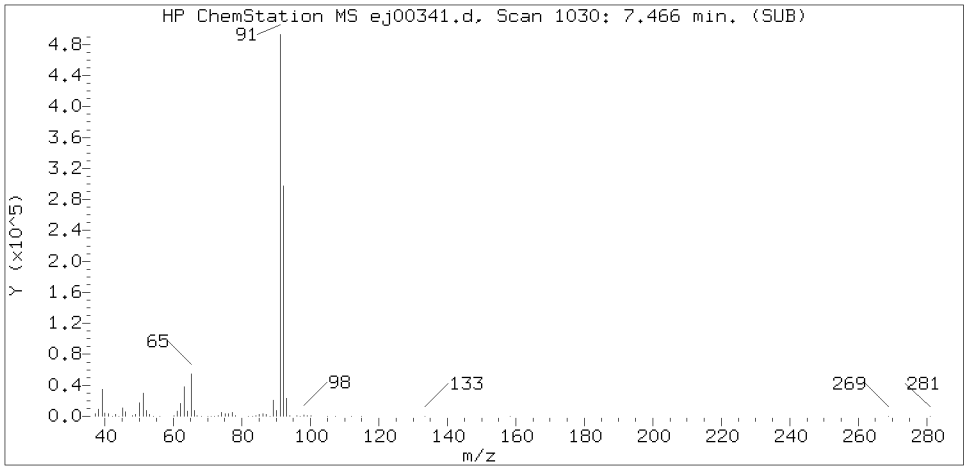
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 12:07 Unknown

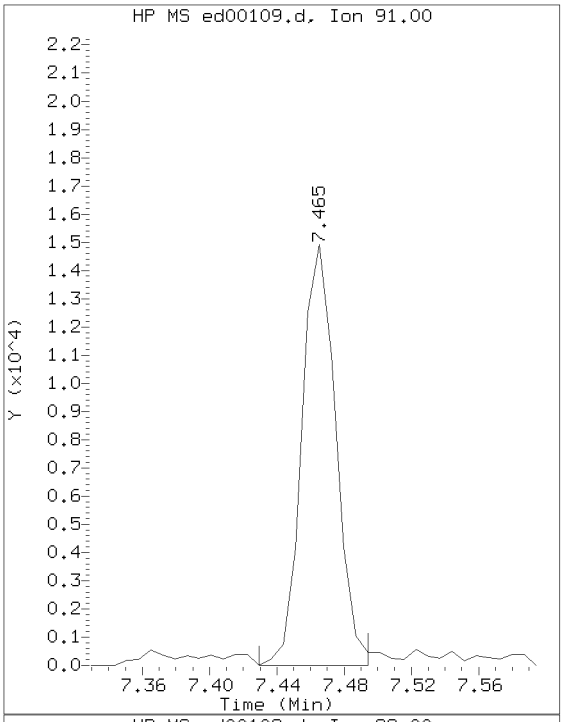
Sample Name: DKOA2 Lab Sample ID: 8906227

Compound Number : 46
Compound Name : Benzene
Scan Number : 823
Retention Time (minutes): 5.983
Quant Ion : 78.00
Area : 15701
Concentration (ppb(v)) : 0.2252
Integration start scan : 816 Integration stop scan: 840
Y at integration start : 0 Y at integration end: 0

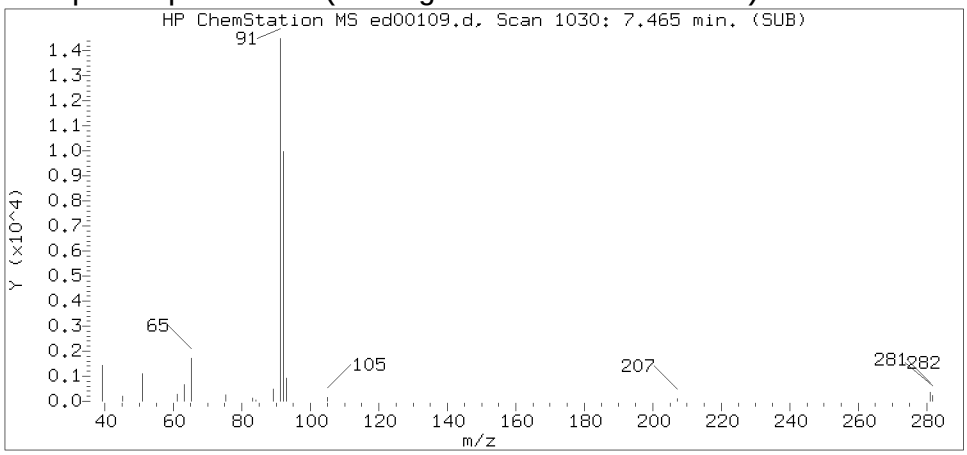
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

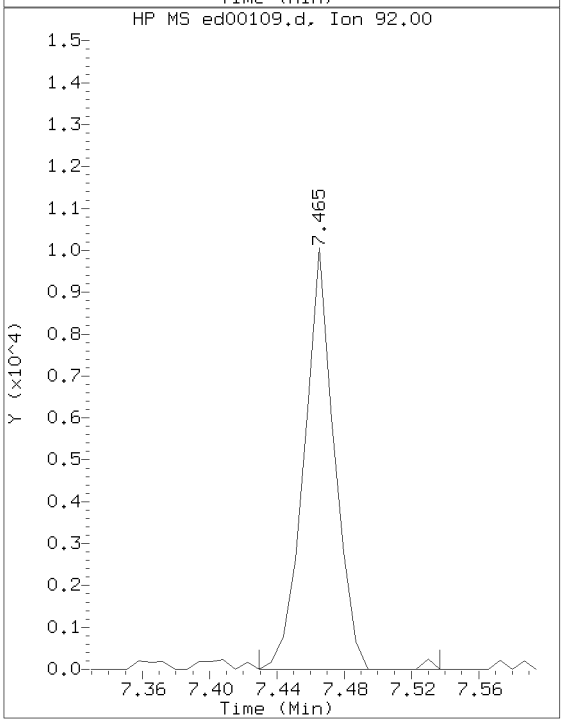
Reference Standard Spectrum for Toluene



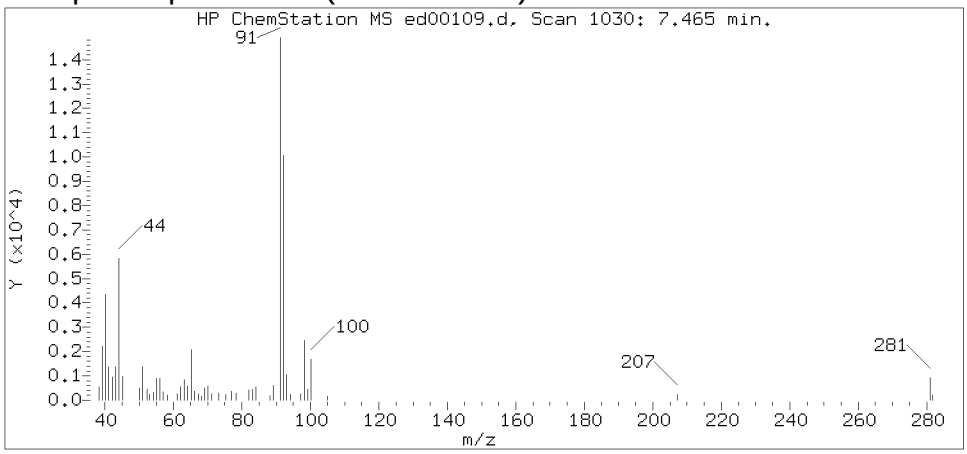


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

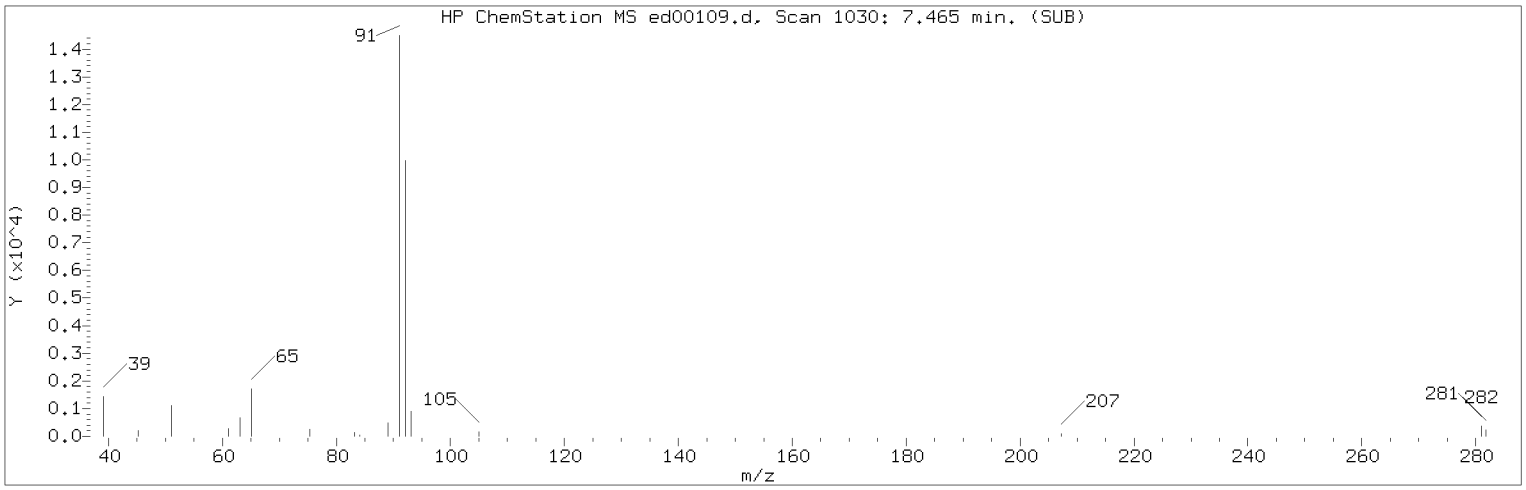
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

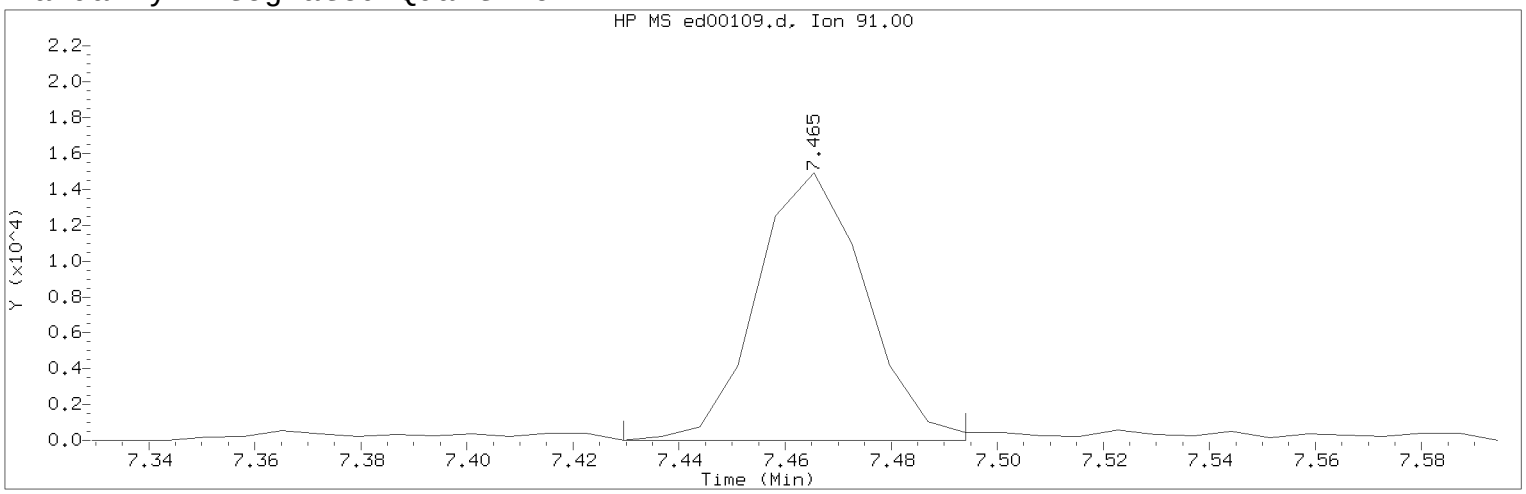
Compound Number	: 61
Compound Name	: Toluene
Scan Number	: 1030
Retention Time (minutes)	: 7.465
Relative Retention Time	: 0.00000
Quant Ion	: 91.00
Area (flag)	: 21155M
Concentration (ppb(v))	: 0.2354

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:53 jeb07445

Sample Name: DKOA2 Lab Sample ID: 8906227

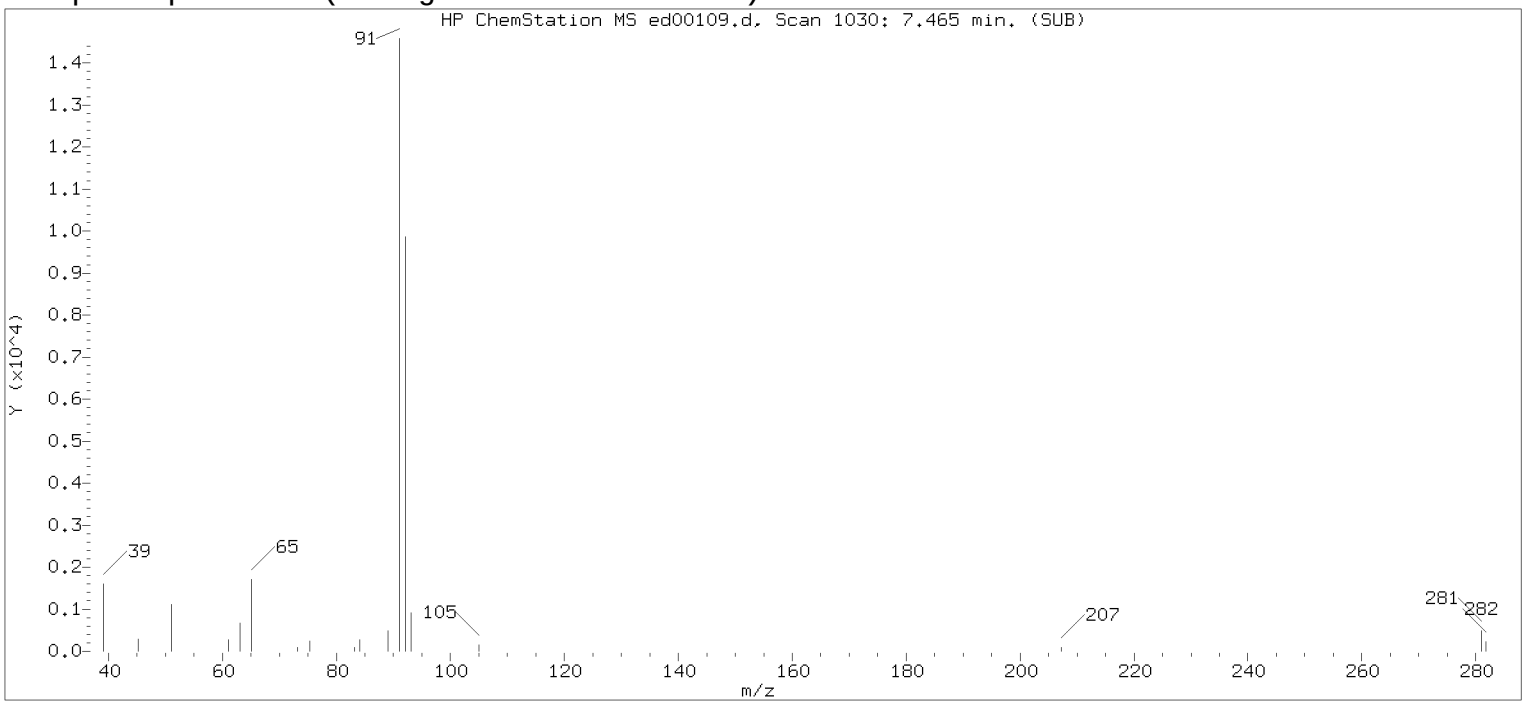
Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.465
Quant Ion : 91.00
Area (flag) : 21155M
Concentration (ppb(v)) : 0.2354
Integration start scan : 1024 Integration stop scan: 1033
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

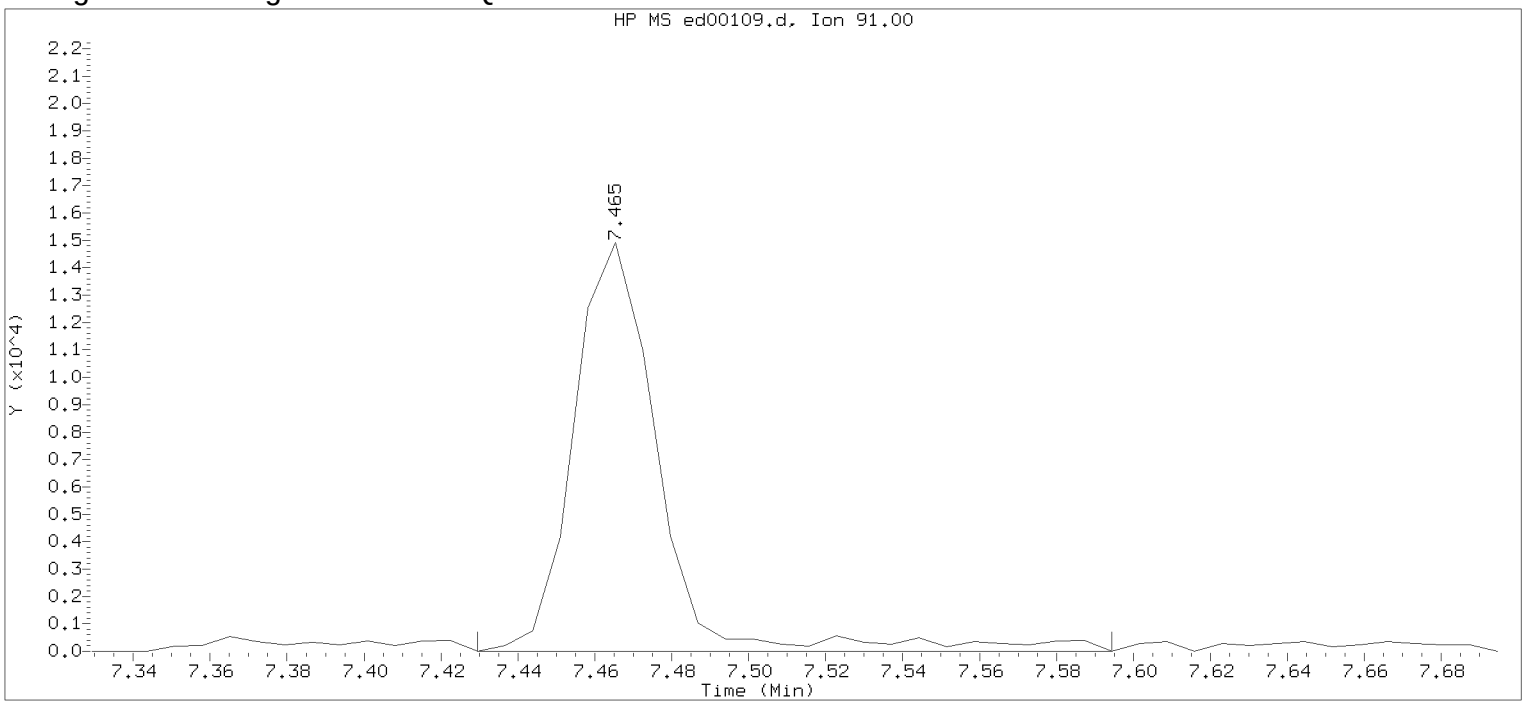
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00109.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 23:50 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 12:07 Unknown

Sample Name: DKOA2 Lab Sample ID: 8906227

Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.465
Quant Ion : 91.00
Area : 23006
Concentration (ppb(v)) : 0.2560
Integration start scan : 1024 Integration stop scan: 1047
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906228
Canister ID:	1426	Lab File ID:	ed00110.d
Pressure Received:	27.6 psia	Date Collected:	03/22/2017
Final Pressure:	13.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	00:34
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	4.2	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	3.2	J
109-66-0	Pentane	0.59	U
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	49	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	14	
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906228
Canister ID:	1426	Lab File ID:	ed00110.d
Pressure Received:	27.6 psia	Date Collected:	03/22/2017
Final Pressure:	13.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	00:34
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	0.99	J
111-65-9	Octane	2.0	J
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	3.6	J
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906228
Canister ID:	1426	Lab File ID:	ed00110.d
Pressure Received:	27.6 psia	Date Collected:	03/22/2017
Final Pressure:	13.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	00:34
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

DKHAL

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906228

Data file: /chem/HP22820.i/17apr06.b/ed00110.d Injection date and time: **07-APR-2017 00:34**
Data file Sample Info. Line: 8906228;400;E1709630AA;DKHAL;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 27.6 psia Canister Pressure before dilution (Ya): 13.8 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	184187 (-16)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	713903 (-14)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	704464 (-13)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	39143	0.844	0.84		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.774(-0.000)	101	28693	0.575	0.57		J	0.2	1
13) Pentane	(1)			Not Detected					0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.533(0.000)	43	434377	20.769	20.77			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	45785	4.782	4.78			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	7.466(-0.000)	91	22440M	0.264	0.26		J	0.2	1
62) Octane	(3)	7.509(0.000)	43	18074M	0.433	0.43		J	0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)			Not Detected					0.2	1
68) 2-Hexanone	(3)	7.946(-0.000)	43	31812	0.889	0.89		J	0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00110.d Injection date and time: **07-APR-2017 00:34**
Data file Sample Info. Line: 8906228;400;E1709630AA;DKHAL;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

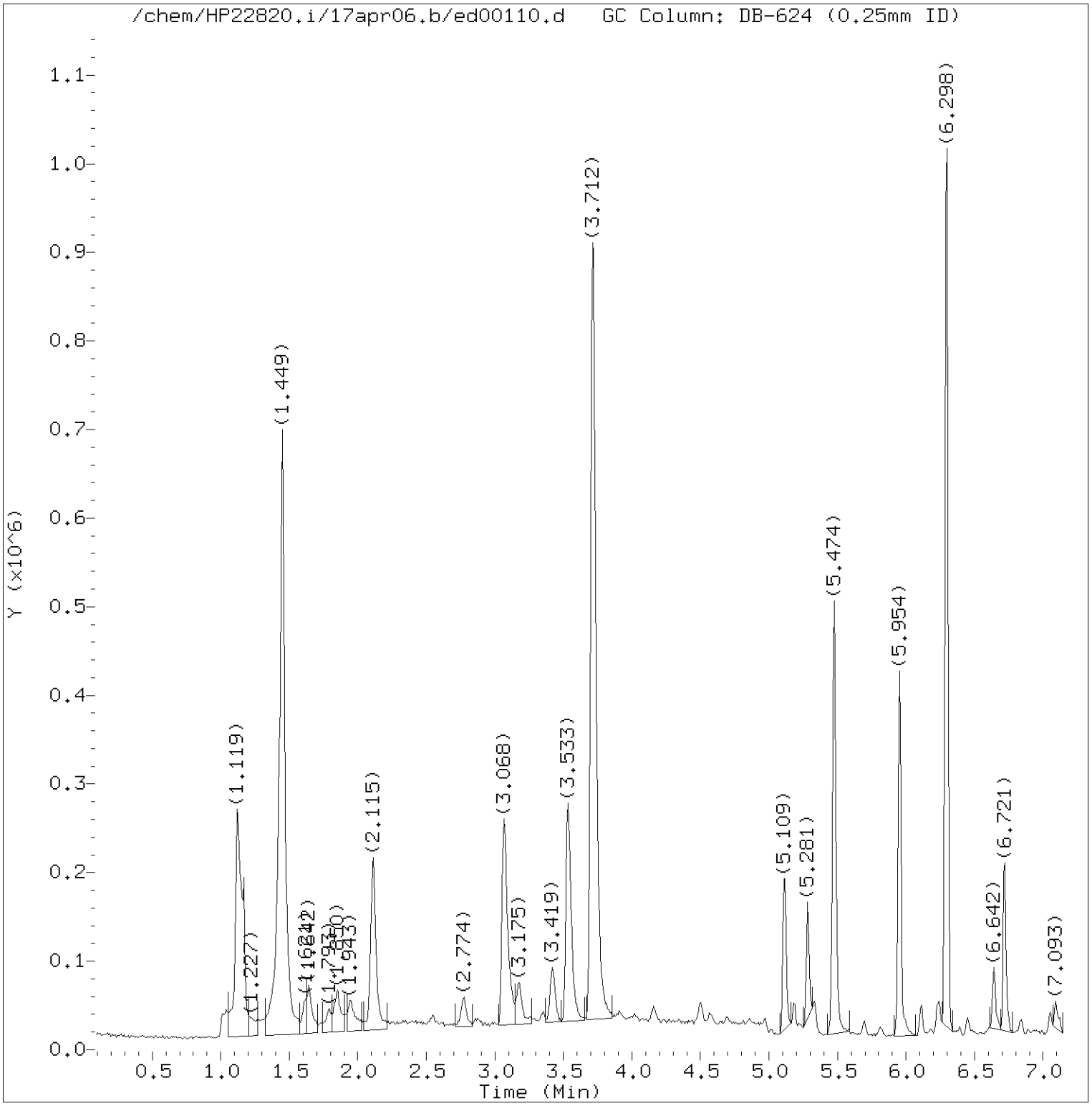
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 27.6 psia Canister Pressure before dilution (Ya): 13.8 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)			Not Detected					0.2	1
75) m/p-Xylene	(3)			Not Detected					0.2	1
76) o-Xylene	(3)			Not Detected					0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)			Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

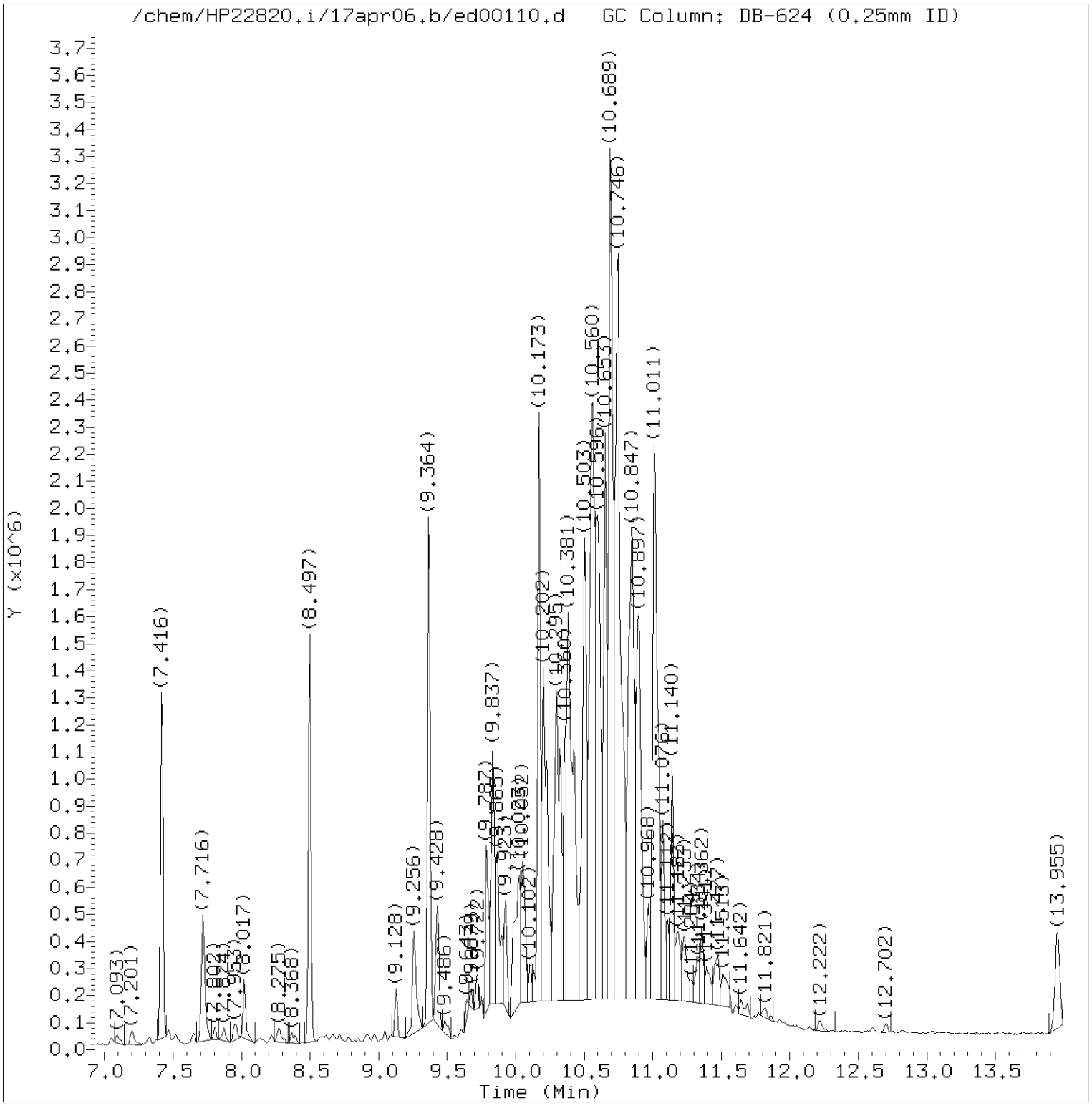
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKHAL Lab Sample ID: 8906228

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKHAL Lab Sample ID: 8906228

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

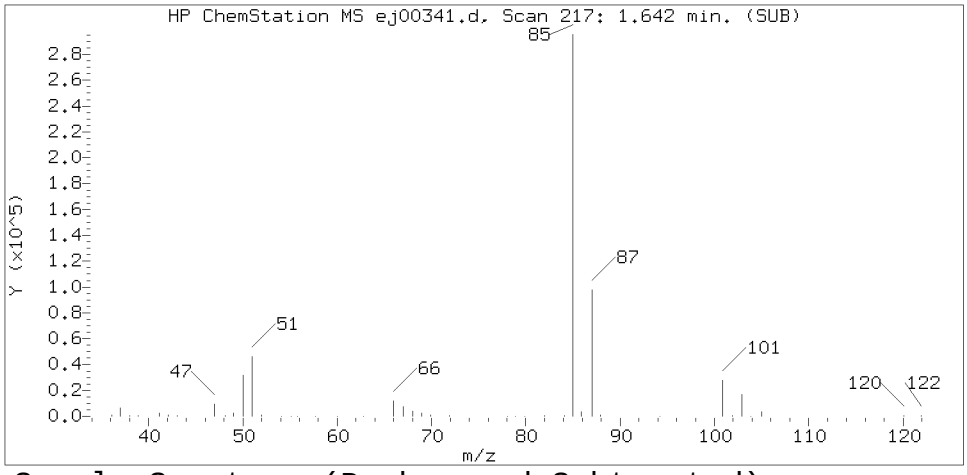
Sample Name: DKHAL Lab Sample ID: 8906228

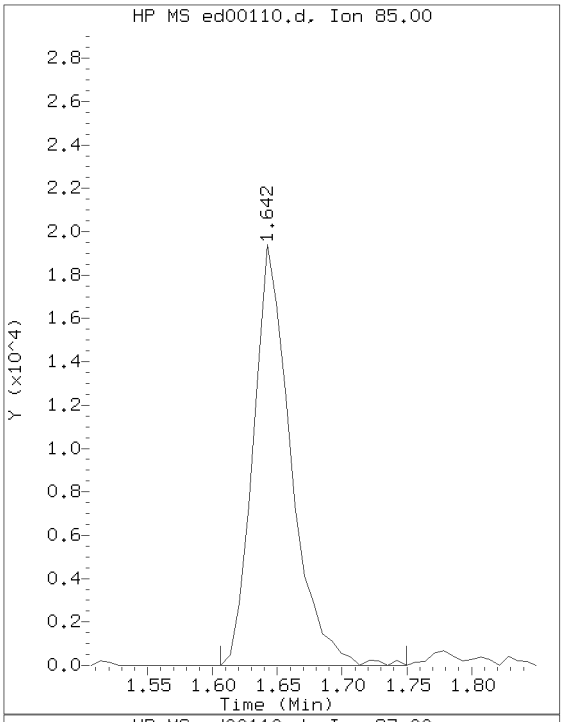
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.642	85	39143	0.844
12) Trichlorofluoromethane	(1)	2.774	101	28693	0.575
19) Acetone	(1)	3.533	43	434377	20.769
37) 2-Butanone	(1)	5.281	72	45785	4.782
40)*Bromochloromethane	(1)	5.474	130	184187	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	713903	10.000
61) Toluene	(3)	7.466	91	22440M	0.264
62) Octane	(3)	7.509	43	18074M	0.433
68) 2-Hexanone	(3)	7.946	43	31812	0.889
71)*Chlorobenzene-d5	(3)	8.497	117	704464	10.000

M = Compound was manually integrated.
* = Compound is an internal standard.

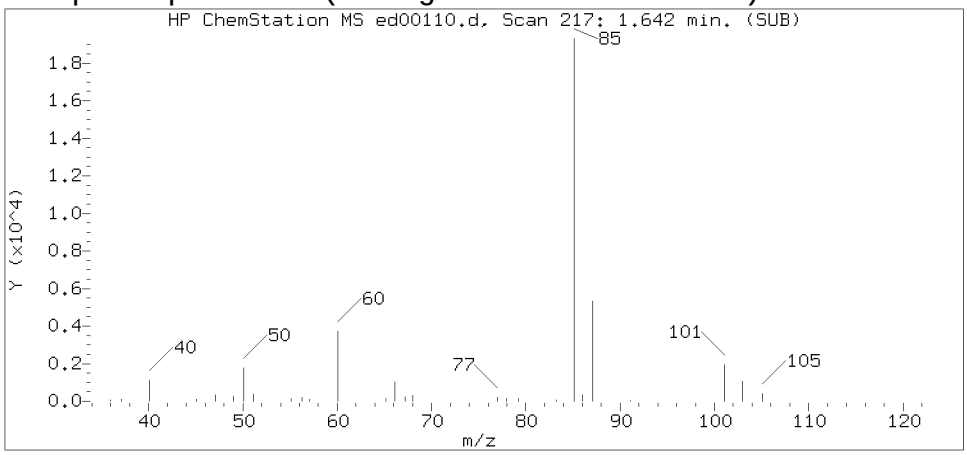
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

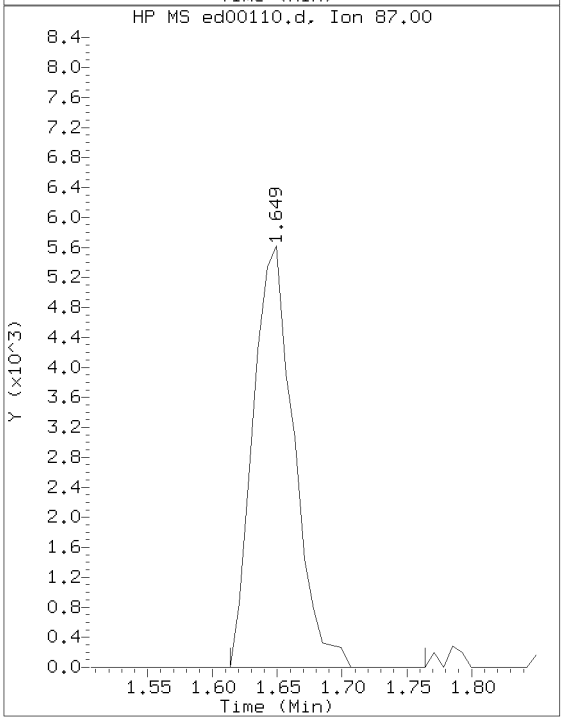
Reference Standard Spectrum for Dichlorodifluoromethane



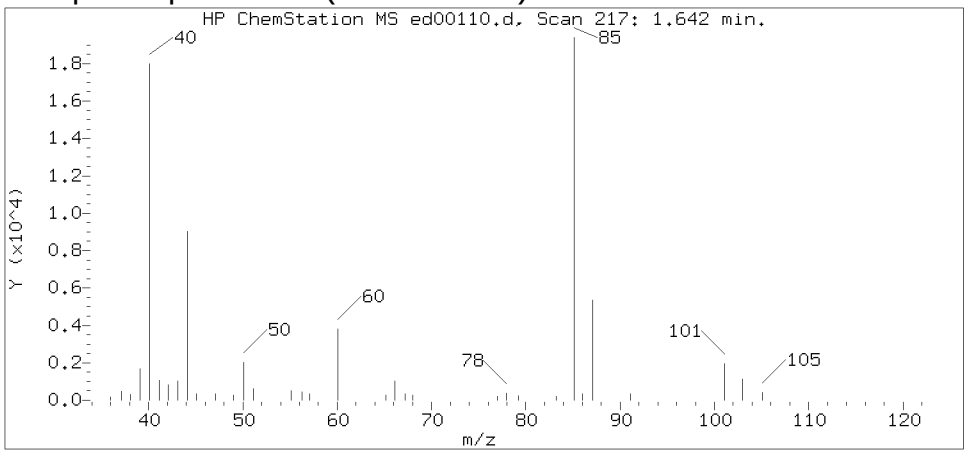


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

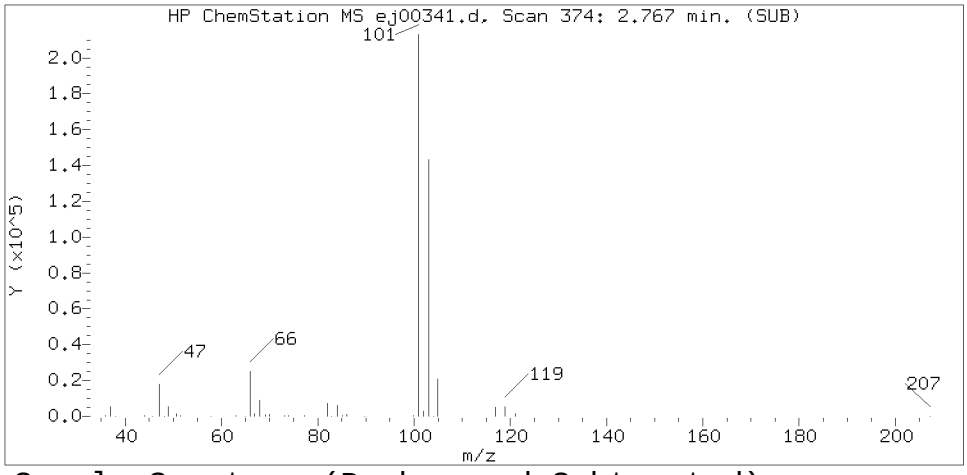
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

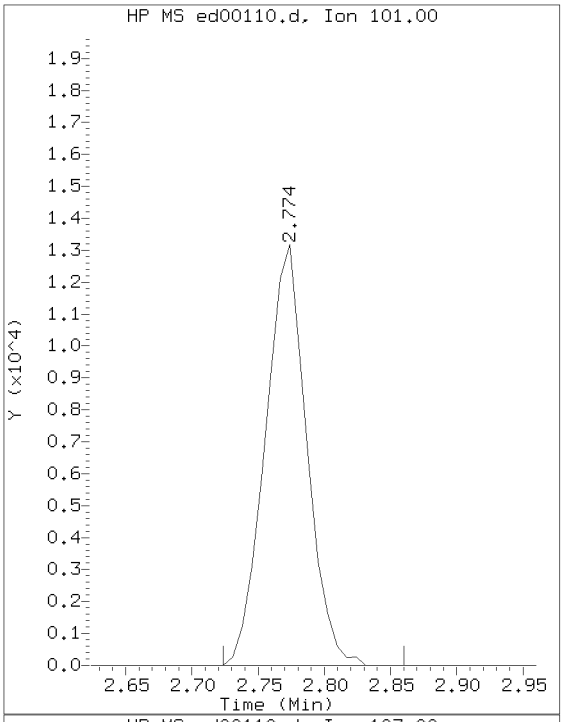
Sample Name: DKHAL Lab Sample ID: 8906228

Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 217
Retention Time (minutes): 1.642
Relative Retention Time : 0.00037
Quant Ion : 85.00
Area (flag) : 39143
Concentration (ppb(v)) : 0.8440

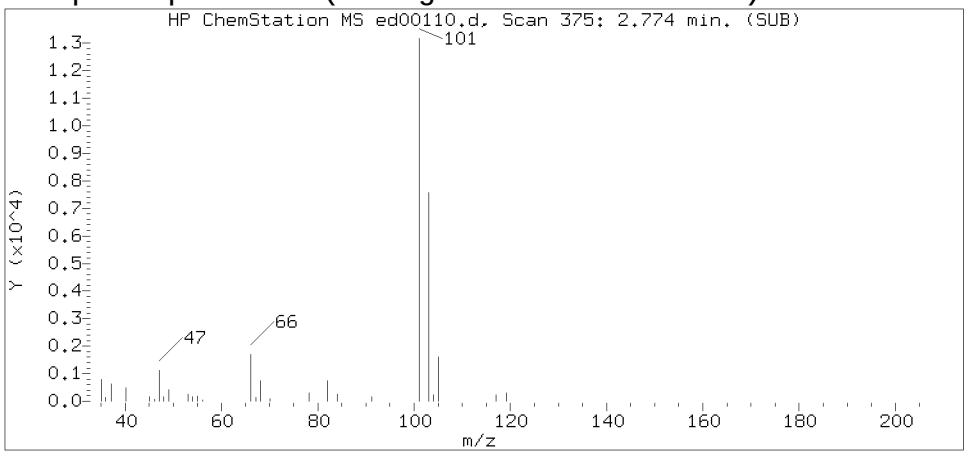
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

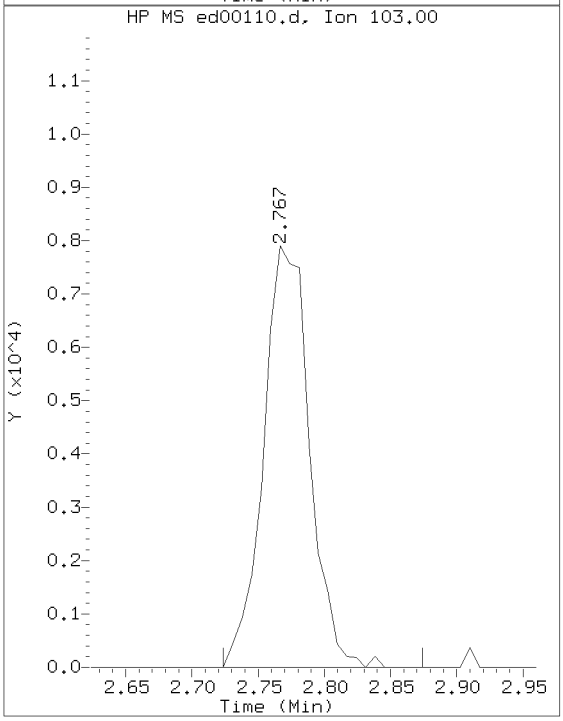
Reference Standard Spectrum for Trichlorofluoromethane



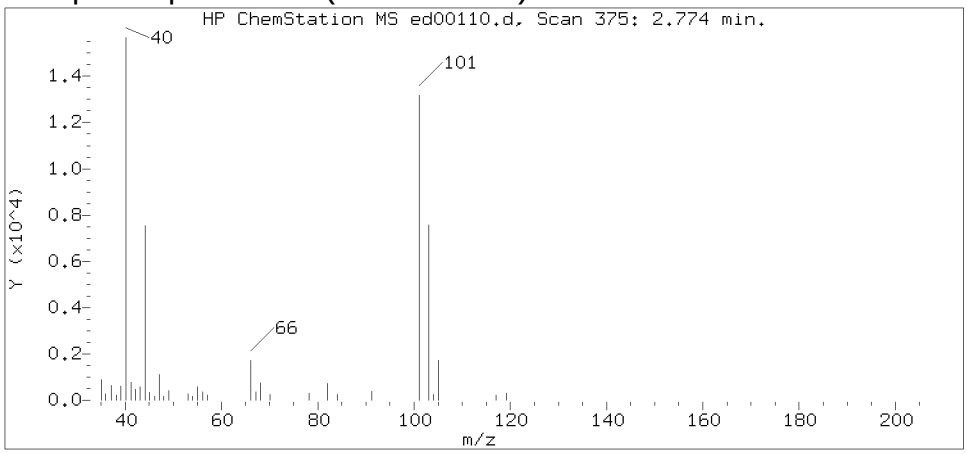


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

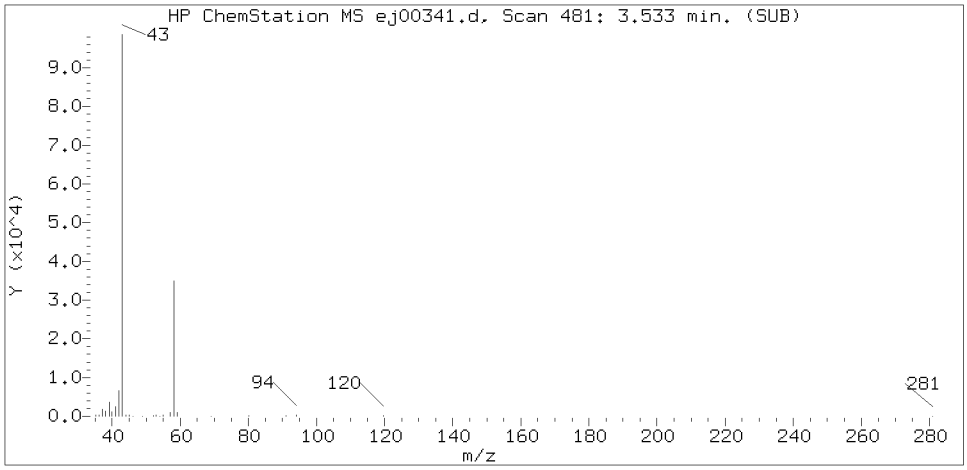
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

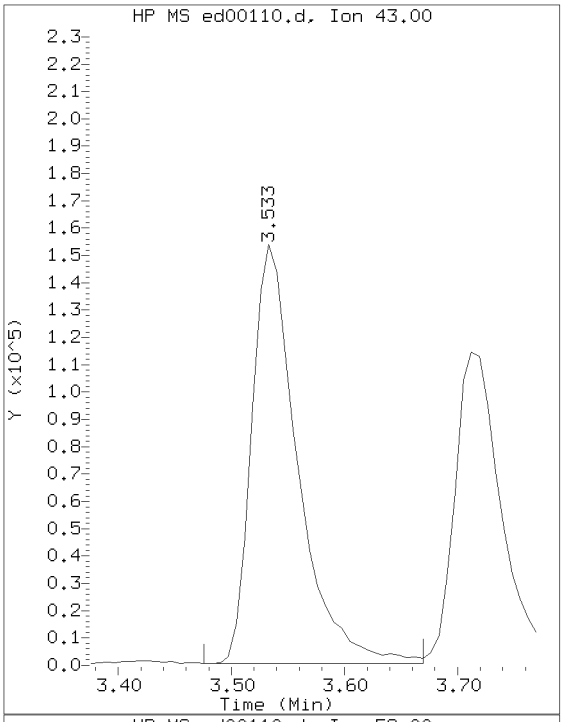
Sample Name: DKHAL Lab Sample ID: 8906228

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 375
Retention Time (minutes): 2.774
Relative Retention Time :-0.00066
Quant Ion : 101.00
Area (flag) : 28693
Concentration (ppb(v)) : 0.5750

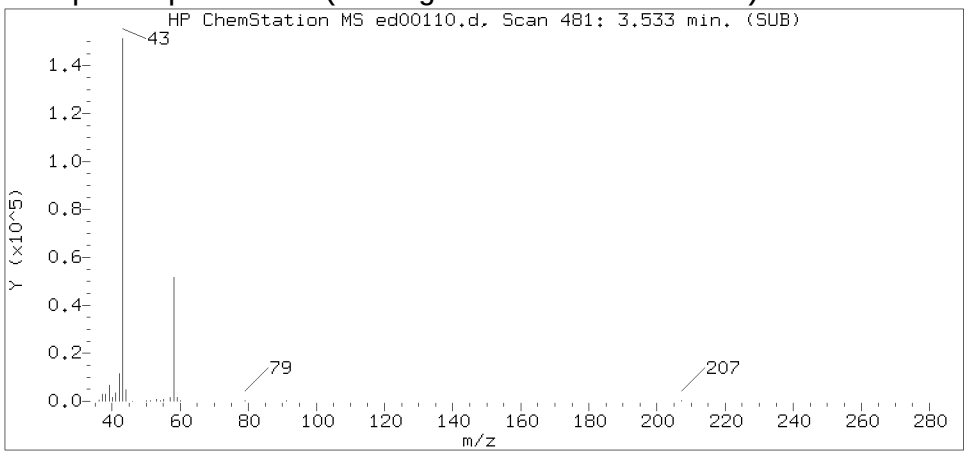
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

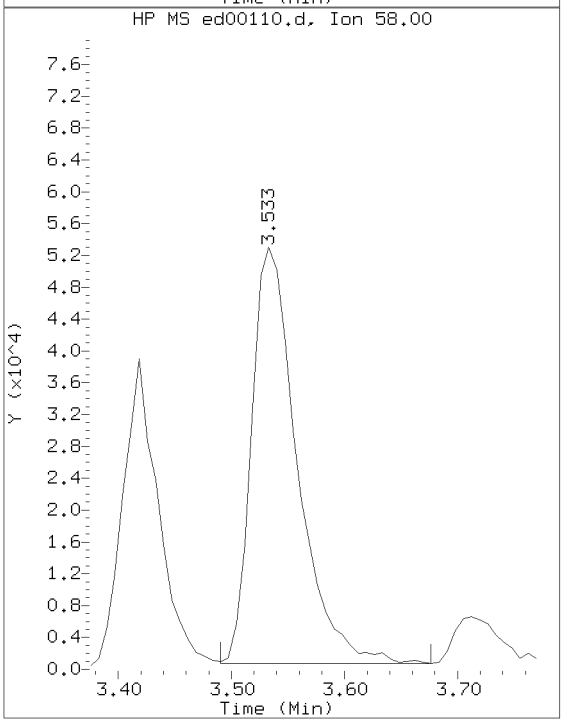
Reference Standard Spectrum for Acetone



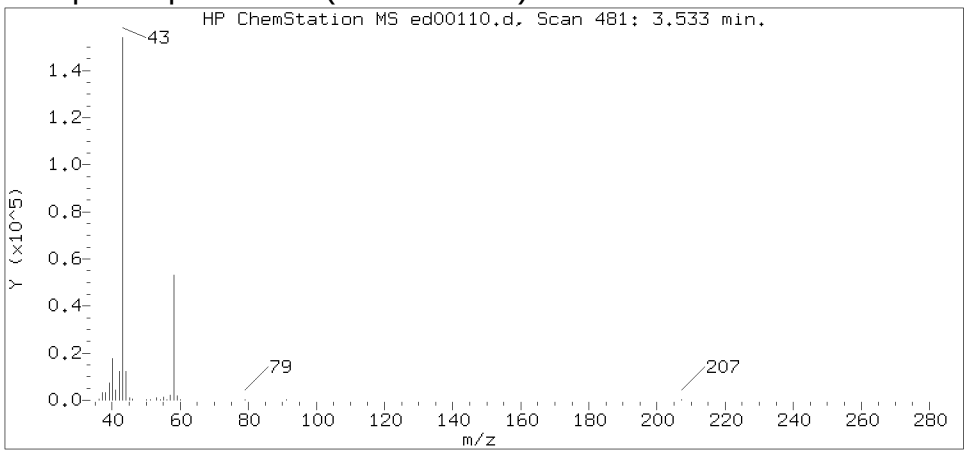


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

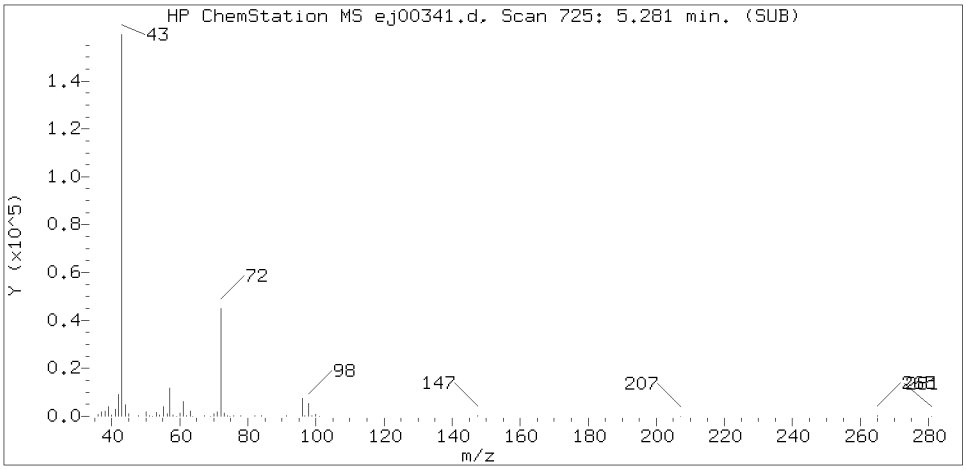
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

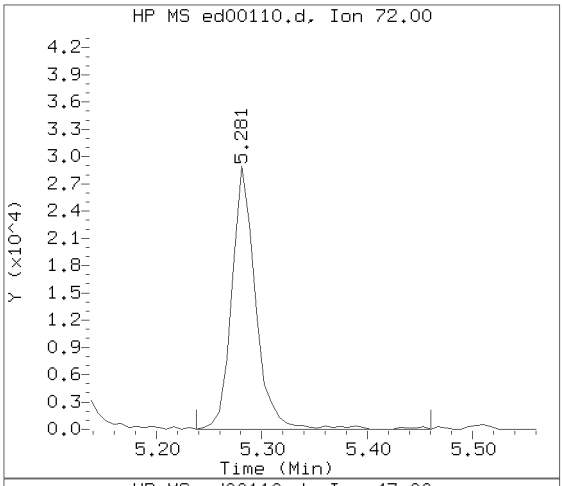
Sample Name: DKHAL Lab Sample ID: 8906228

Compound Number : 19
Compound Name : Acetone
Scan Number : 481
Retention Time (minutes): 3.533
Relative Retention Time : 0.00084
Quant Ion : 43.00
Area (flag) : 434377
Concentration (ppb(v)) : 20.7688

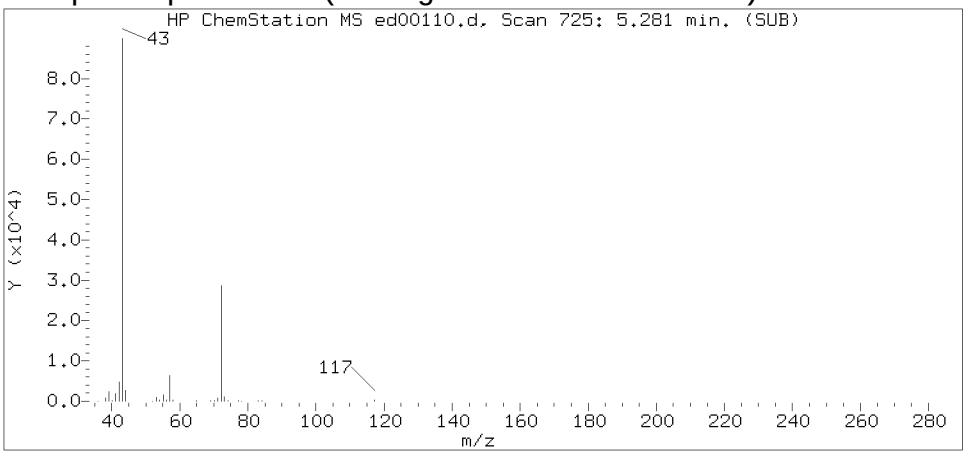
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

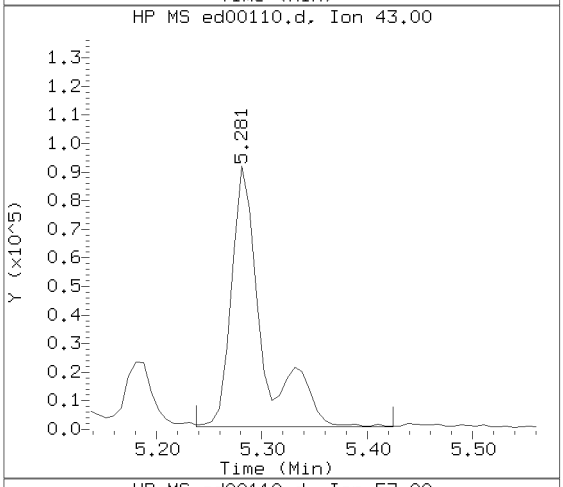
Reference Standard Spectrum for 2-Butanone



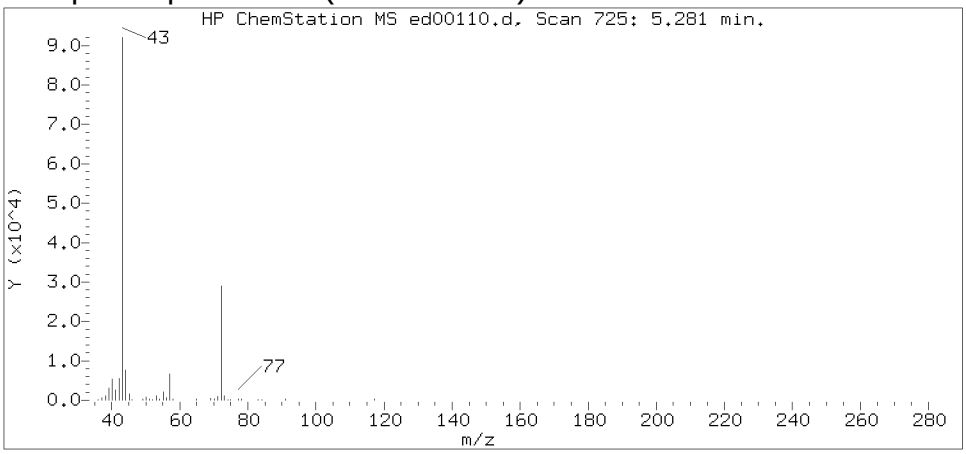


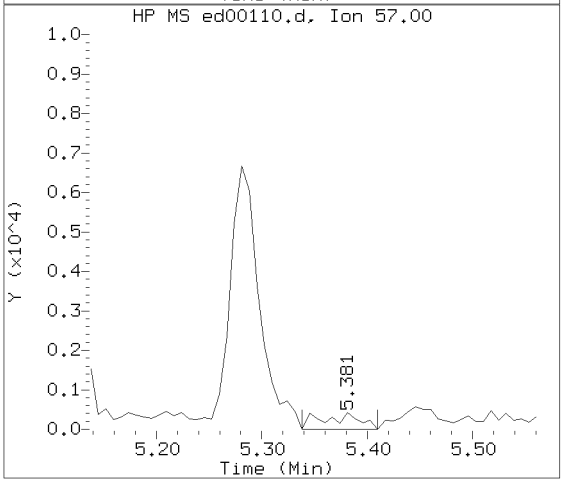
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

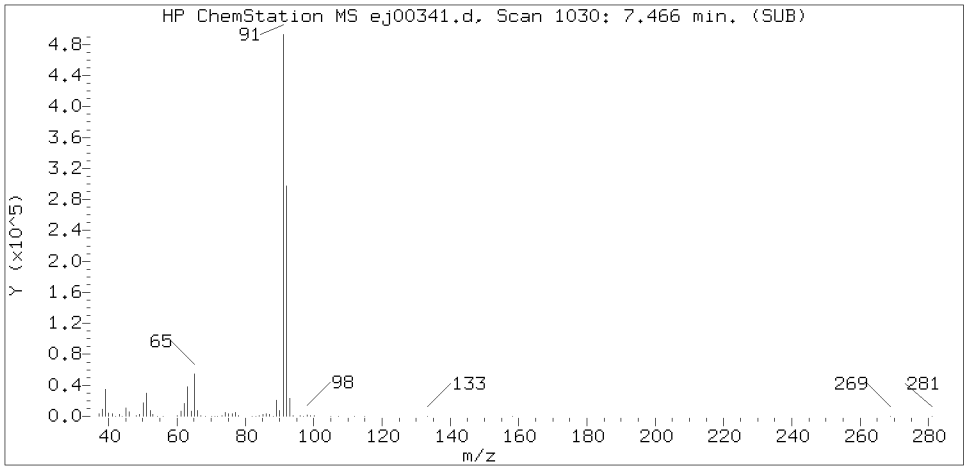
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

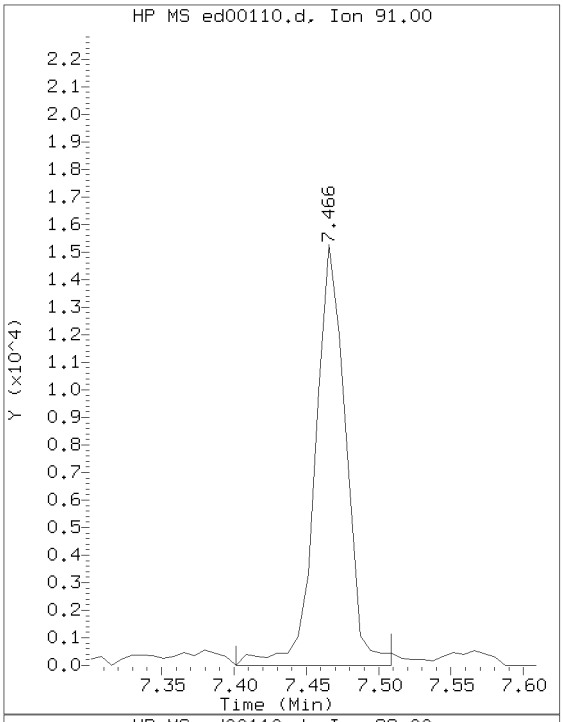
Sample Name: DKHAL Lab Sample ID: 8906228

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00126
Quant Ion : 72.00
Area (flag) : 45785
Concentration (ppb(v)) : 4.7821

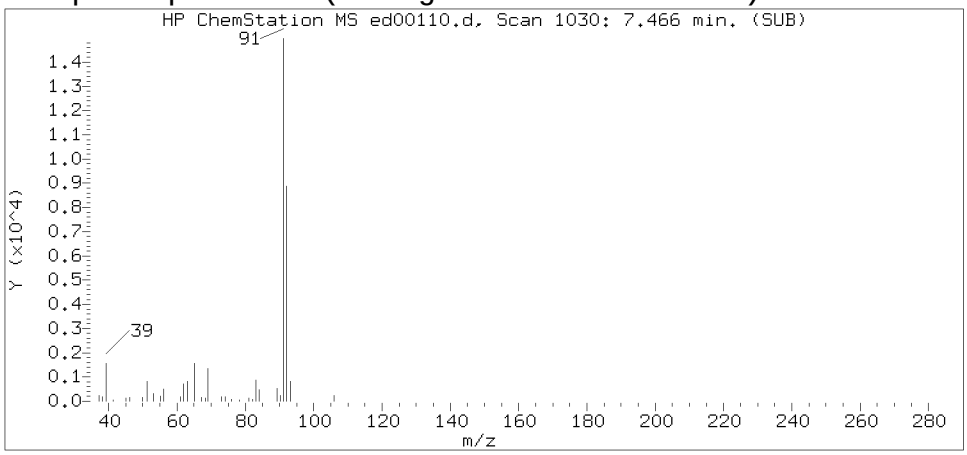
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

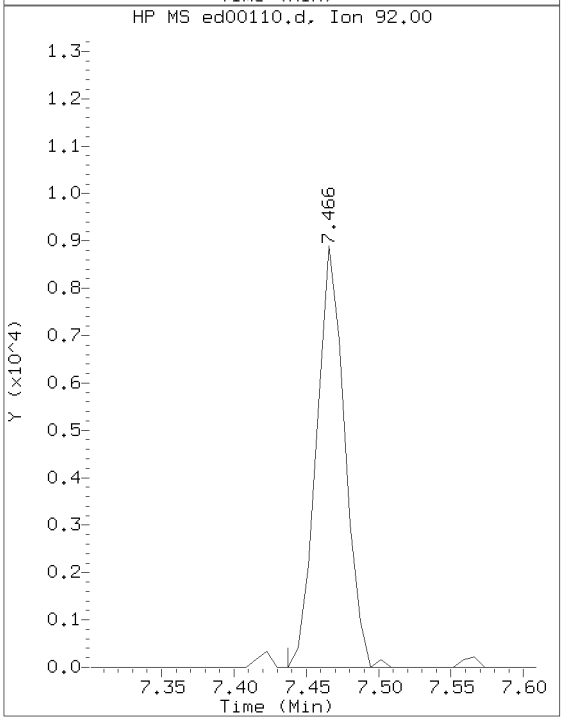
Reference Standard Spectrum for Toluene



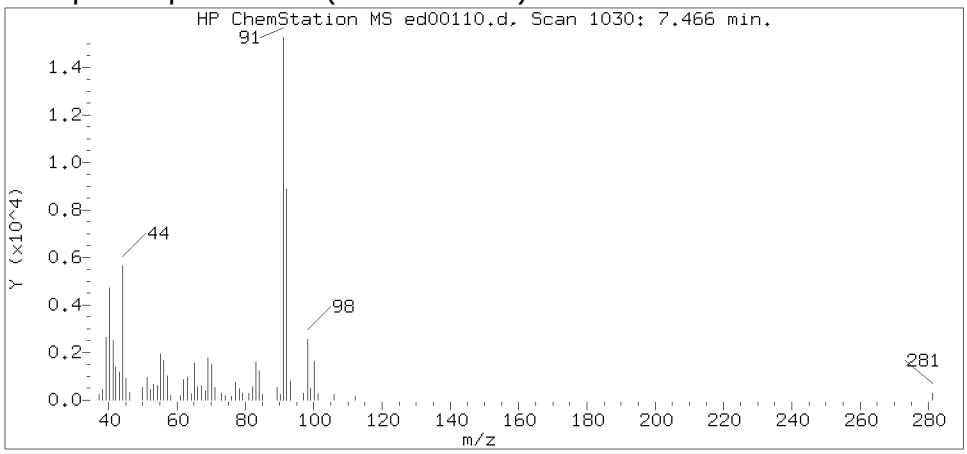


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

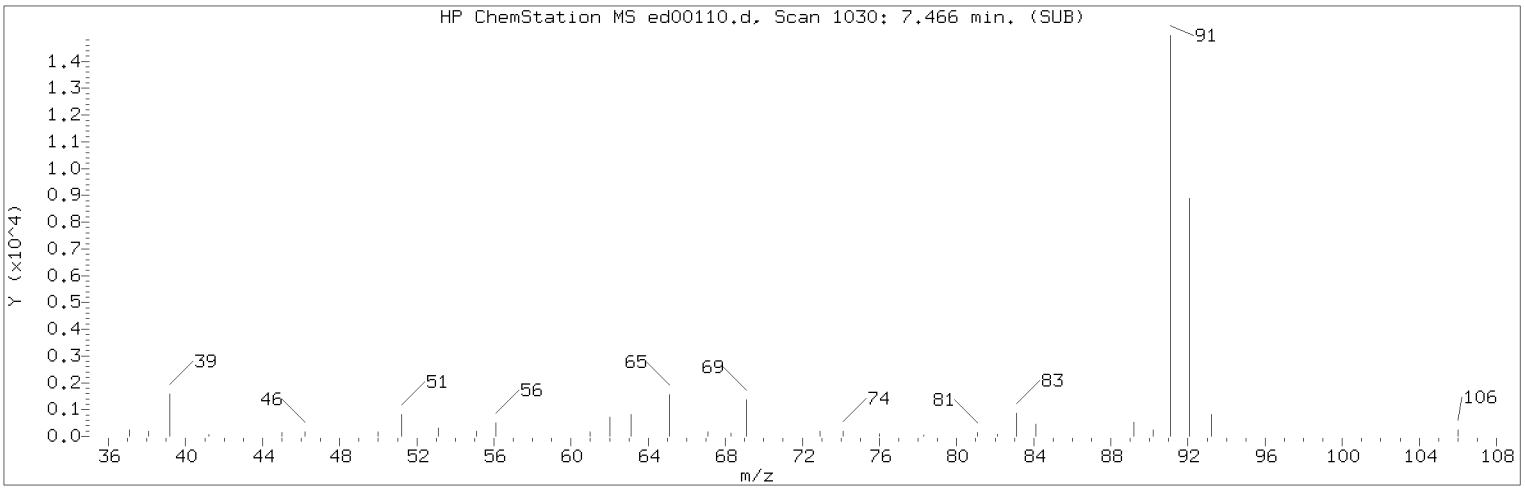
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKHAL Lab Sample ID: 8906228

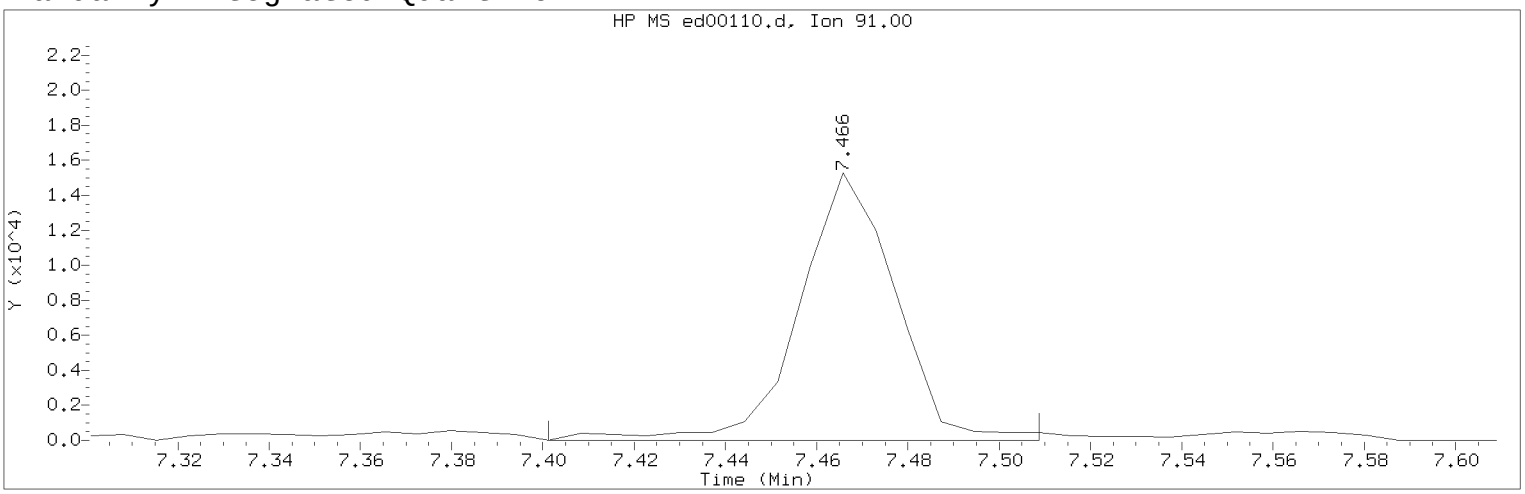
Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.466
Relative Retention Time :-0.00000
Quant Ion : 91.00
Area (flag) : 22440M
Concentration (ppb(v)) : 0.2639

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKHAL Lab Sample ID: 8906228

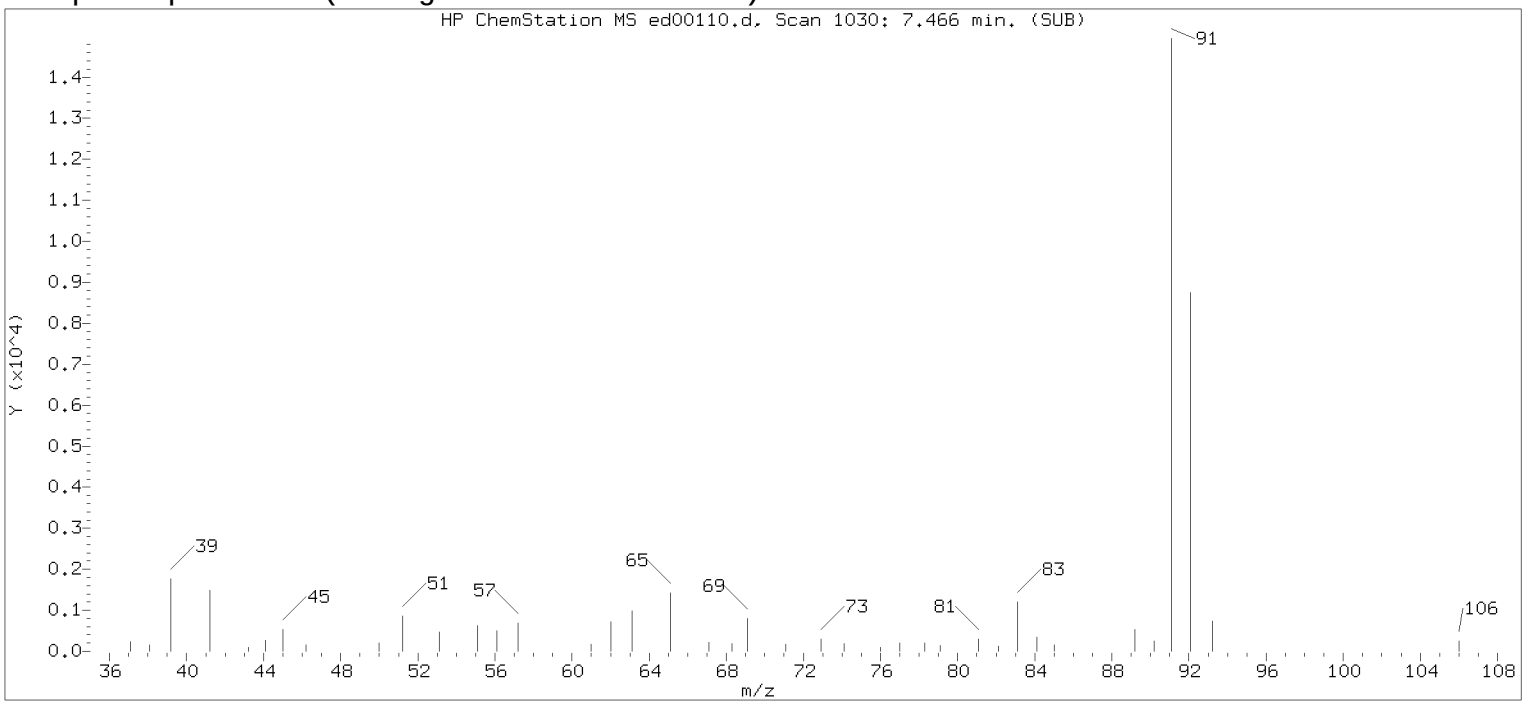
Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.466
Quant Ion : 91.00
Area (flag) : 22440M
Concentration (ppb(v)) : 0.2639
Integration start scan : 1020 Integration stop scan: 1035
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

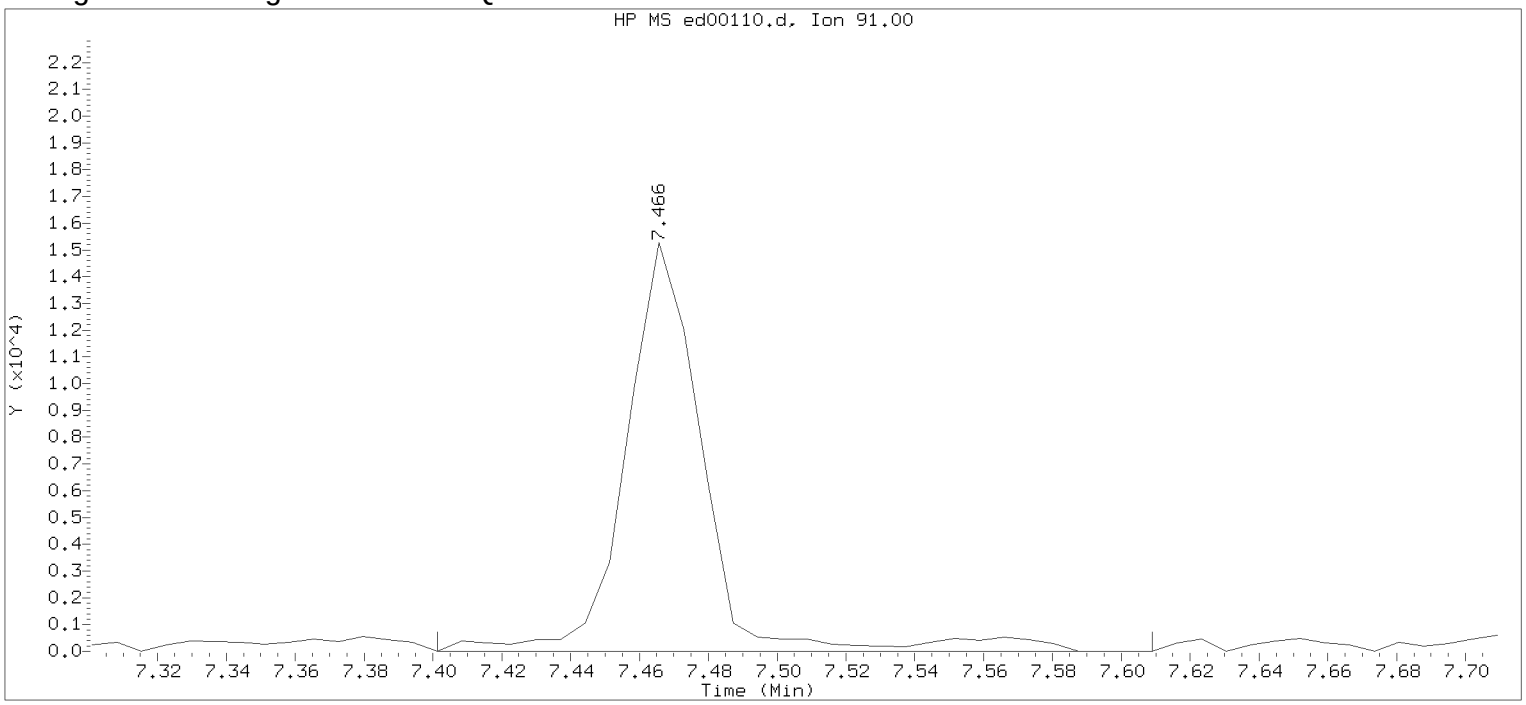
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

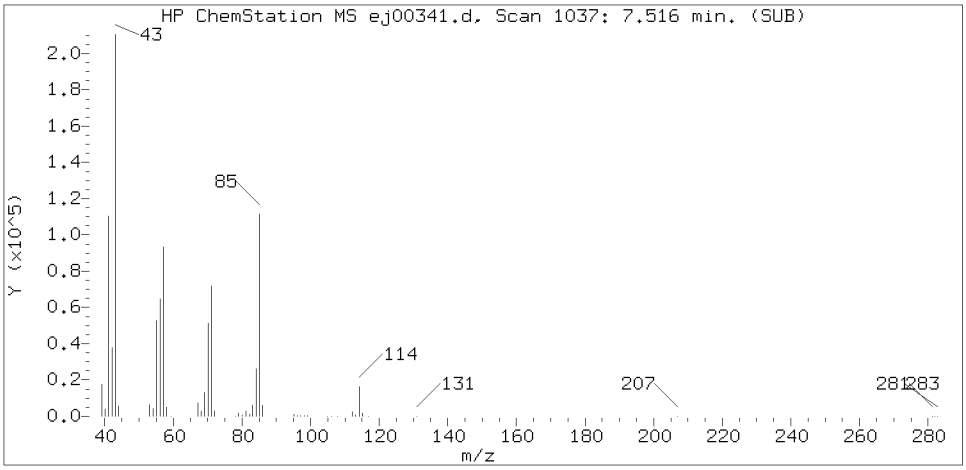
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 12:52 Unknown

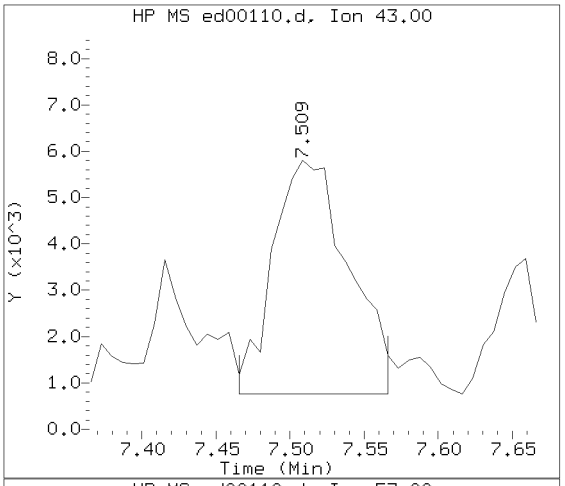
Sample Name: DKHAL Lab Sample ID: 8906228

Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.466
Quant Ion : 91.00
Area : 23850
Concentration (ppb(v)) : 0.2805
Integration start scan : 1020 Integration stop scan: 1049
Y at integration start : 0 Y at integration end: 0

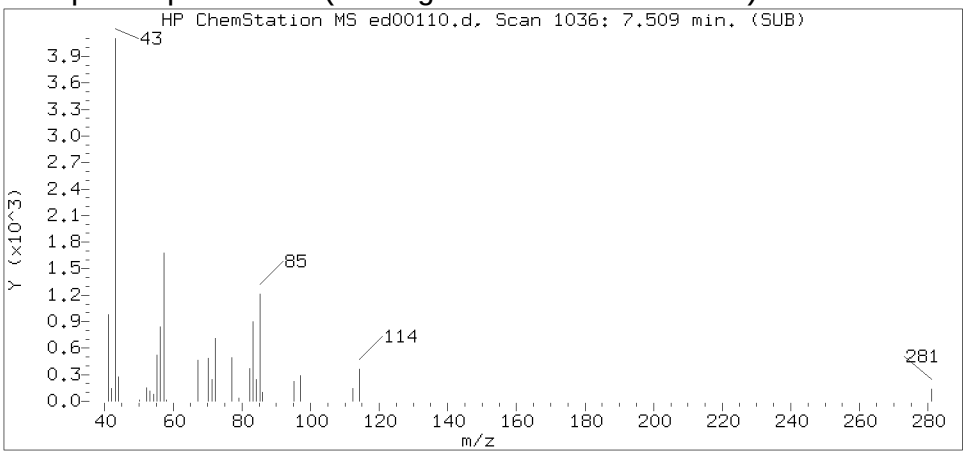
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

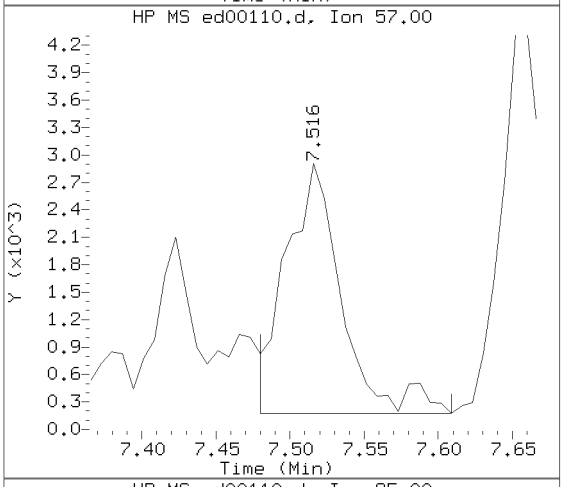
Reference Standard Spectrum for Octane



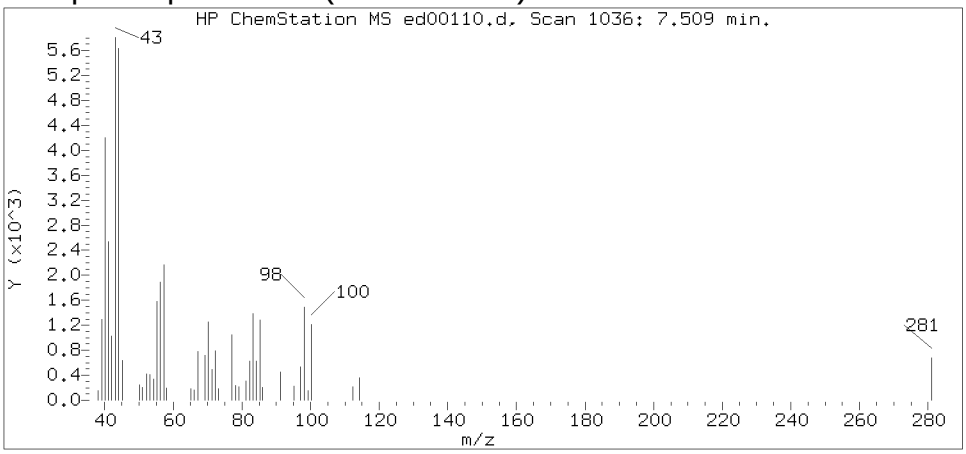


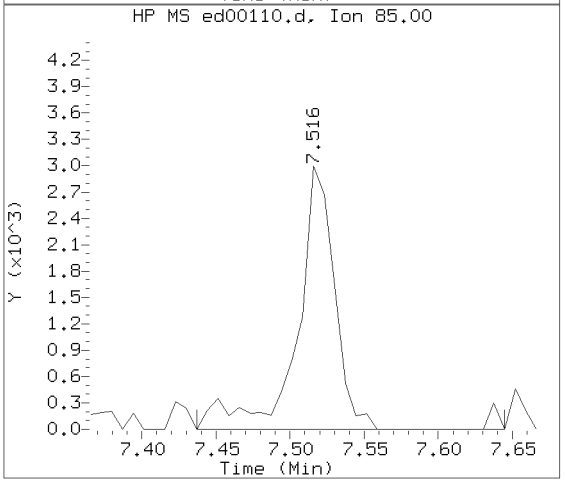
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

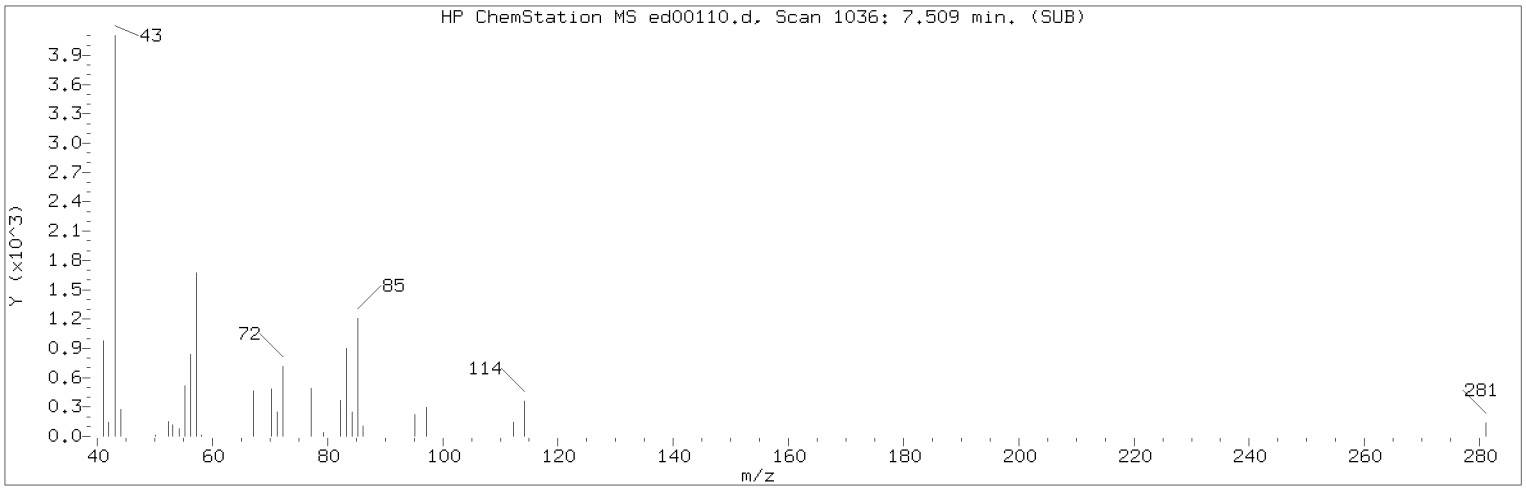
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKHAL Lab Sample ID: 8906228

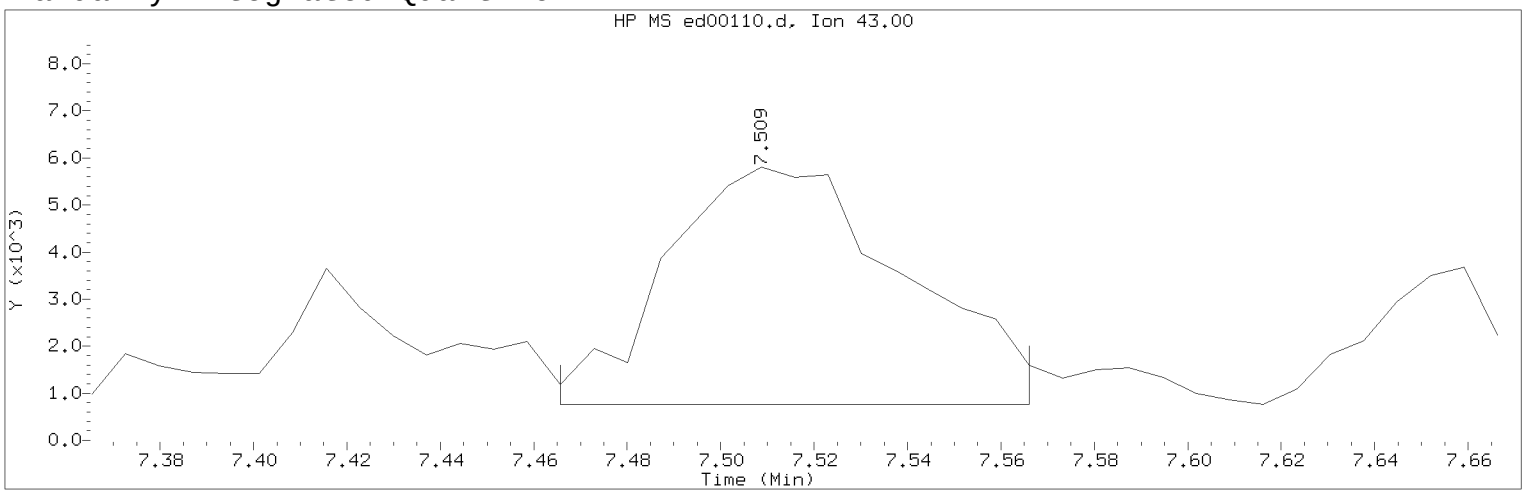
Compound Number : 62
Compound Name : Octane
Scan Number : 1036
Retention Time (minutes): 7.509
Relative Retention Time : 0.00084
Quant Ion : 43.00
Area (flag) : 18074M
Concentration (ppb(v)) : 0.4330

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKHAL Lab Sample ID: 8906228

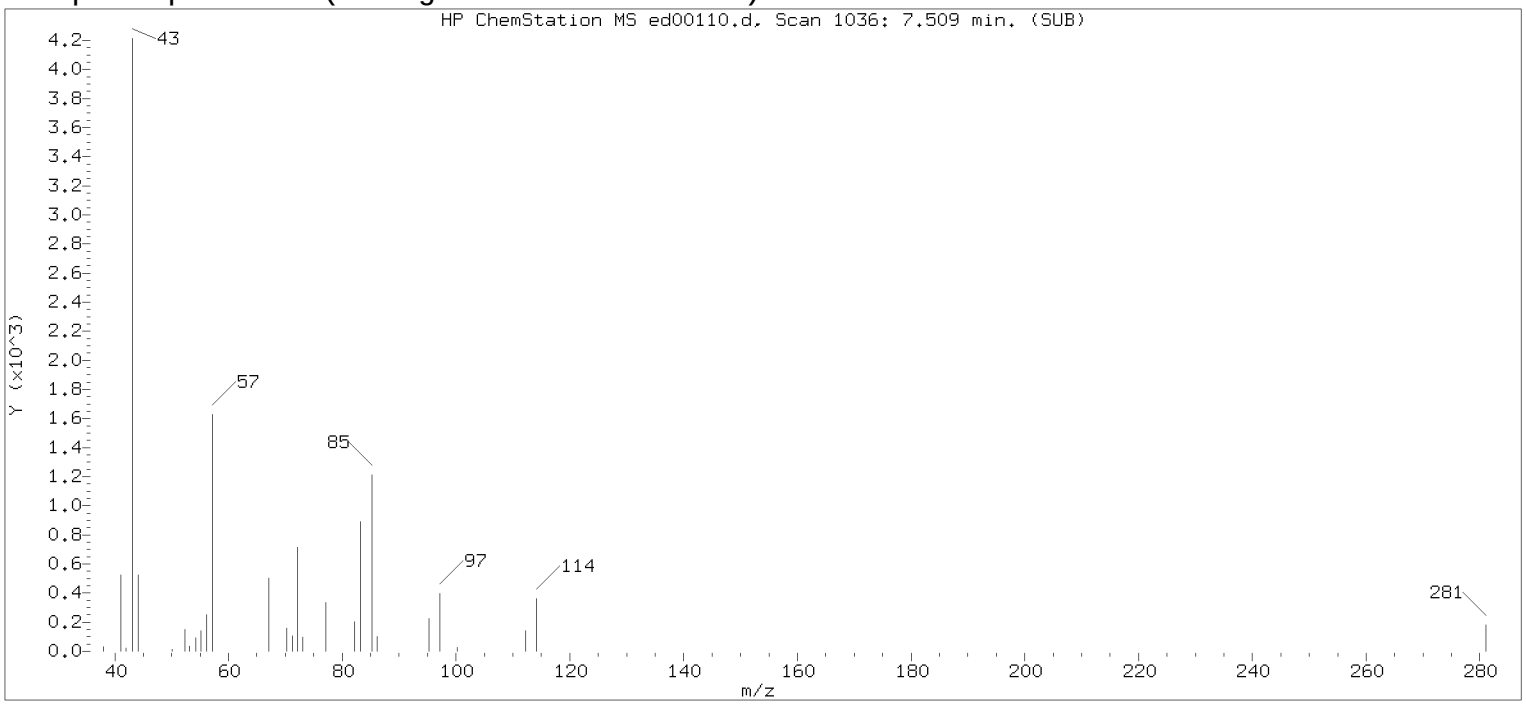
Compound Number : 62
Compound Name : Octane
Scan Number : 1036
Retention Time (minutes): 7.509
Quant Ion : 43.00
Area (flag) : 18074M
Concentration (ppb(v)) : 0.4330
Integration start scan : 1029 Integration stop scan: 1043
Y at integration start : 764 Y at integration end: 764

Reason for manual integration: improper integration

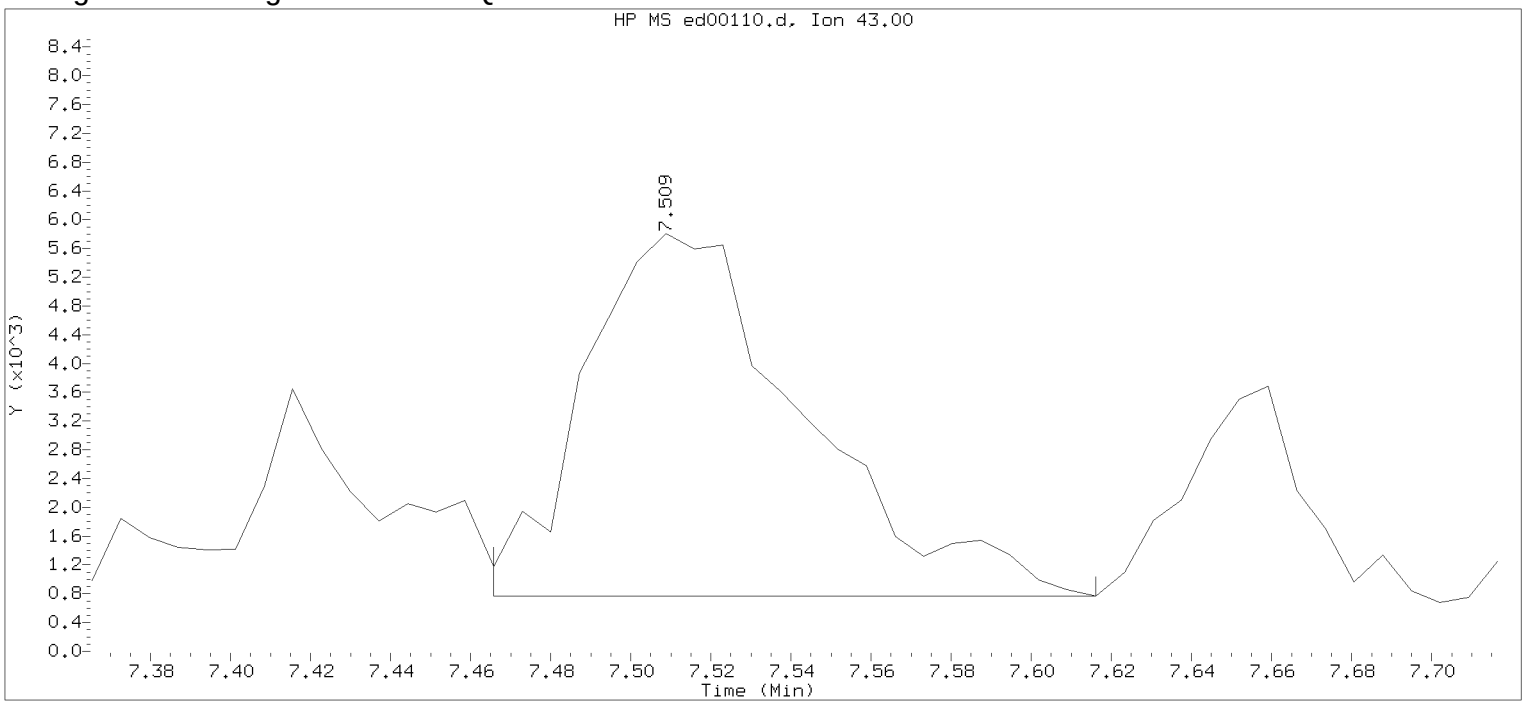
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

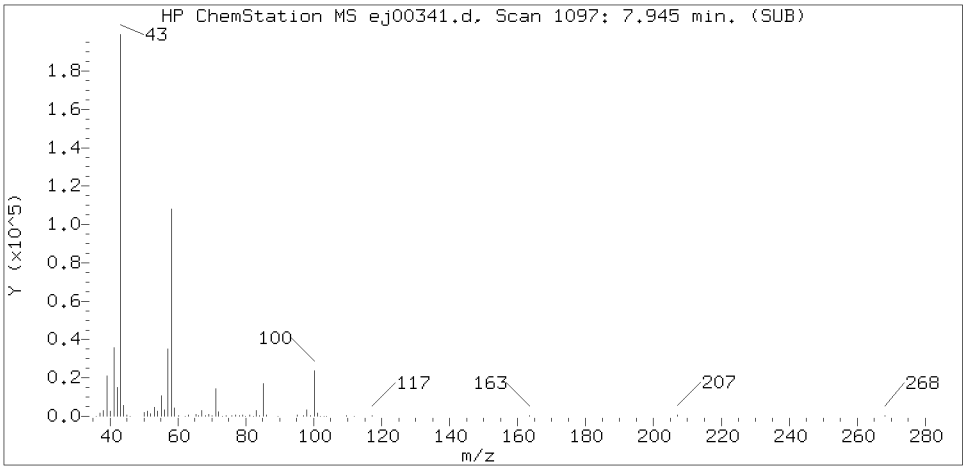
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 12:52 Unknown

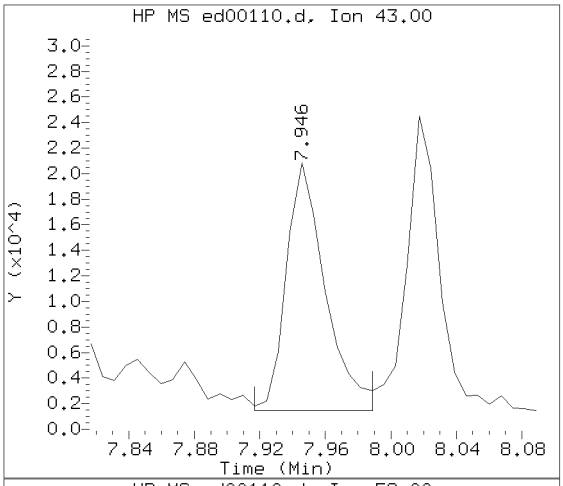
Sample Name: DKHAL Lab Sample ID: 8906228

Compound Number : 62
Compound Name : Octane
Scan Number : 1036
Retention Time (minutes): 7.509
Quant Ion : 43.00
Area : 19254
Concentration (ppb(v)) : 0.4612
Integration start scan : 1029 Integration stop scan: 1050
Y at integration start : 764 Y at integration end: 764

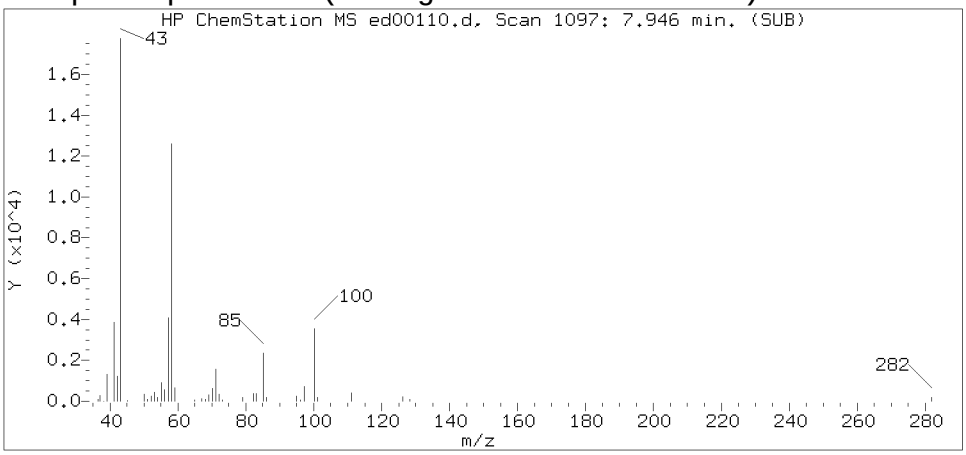
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

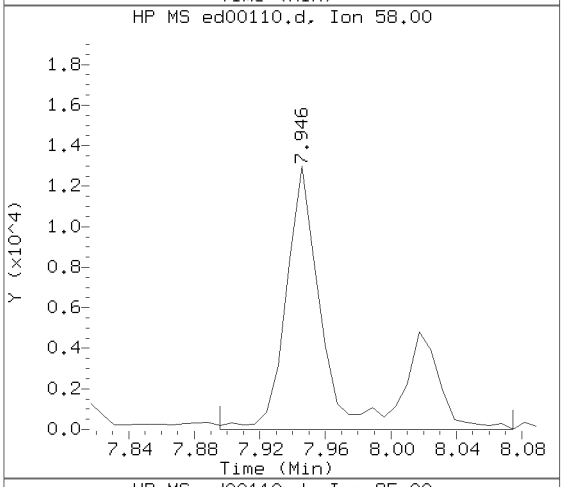
Reference Standard Spectrum for 2-Hexanone



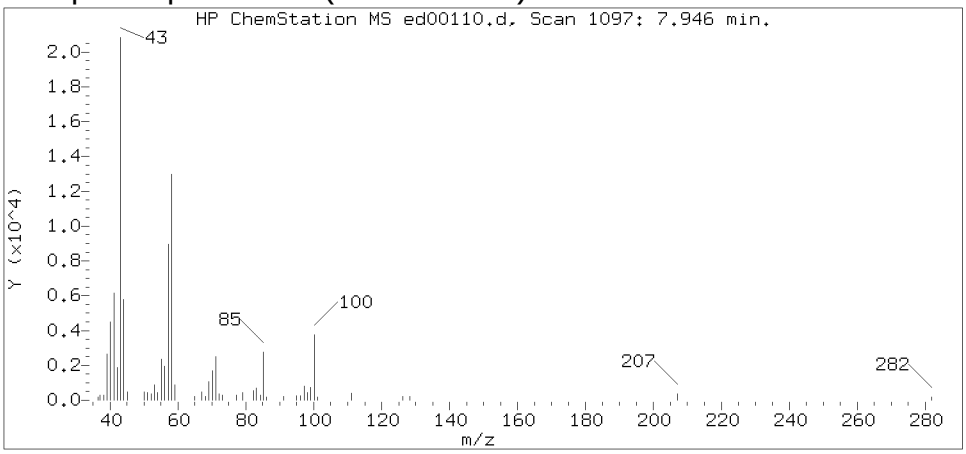


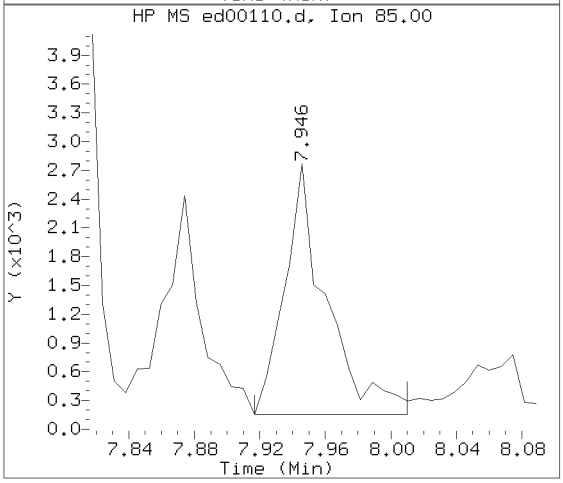
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00110.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 00:34 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKHAL Lab Sample ID: 8906228

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1097
Retention Time (minutes): 7.946
Relative Retention Time :-0.00000
Quant Ion : 43.00
Area (flag) : 31812
Concentration (ppb(v)) : 0.8886

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906229
Canister ID:	1445	Lab File ID:	ed00111.d
Pressure Received:	27.8 psia	Date Collected:	03/22/2017
Final Pressure:	13.9 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	01:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	3.1	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	1.5	J
109-66-0	Pentane	0.86	J
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	24	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	7.2	
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906229
Canister ID:	1445	Lab File ID:	ed00111.d
Pressure Received:	27.8 psia	Date Collected:	03/22/2017
Final Pressure:	13.9 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	01:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	0.75	U
111-65-9	Octane	0.93	U
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	2.0	U
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906229
Canister ID:	1445	Lab File ID:	ed00111.d
Pressure Received:	27.8 psia	Date Collected:	03/22/2017
Final Pressure:	13.9 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	01:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906229

Data file: /chem/HP22820.i/17apr06.b/ed00111.d Injection date and time: **07-APR-2017 01:18**
Data file Sample Info. Line: 8906229;400;E1709630AA;DKOUT;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 27.8 psia Canister Pressure before dilution (Ya): 13.9 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	195585 (-11)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	752750 (-9)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	747292 (-8)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	30665	0.623	0.62		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.774(-0.000)	101	14097	0.266	0.27		J	0.2	1
13) Pentane	(1)	2.860(0.001)	43	8075	0.291	0.29		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.533(0.000)	43	221984	9.995	10.00			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	24912	2.450	2.45			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)			Not Detected					0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)			Not Detected					0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906229

Data file: /chem/HP22820.i/17apr06.b/ed00111.d Injection date and time: **07-APR-2017 01:18**
Data file Sample Info. Line: 8906229;400;E1709630AA;DKOUT;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

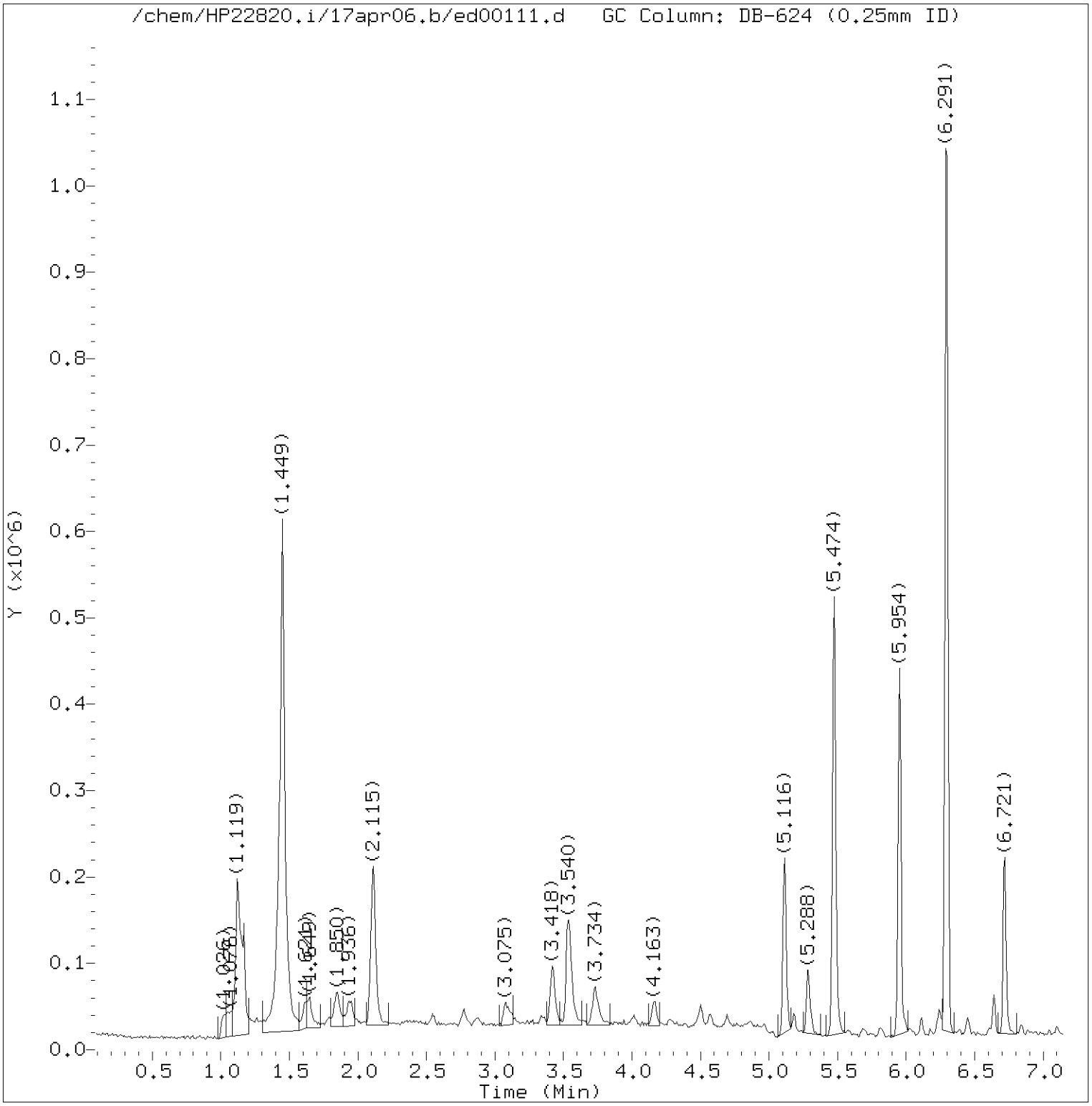
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 27.8 psia Canister Pressure before dilution (Ya): 13.9 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

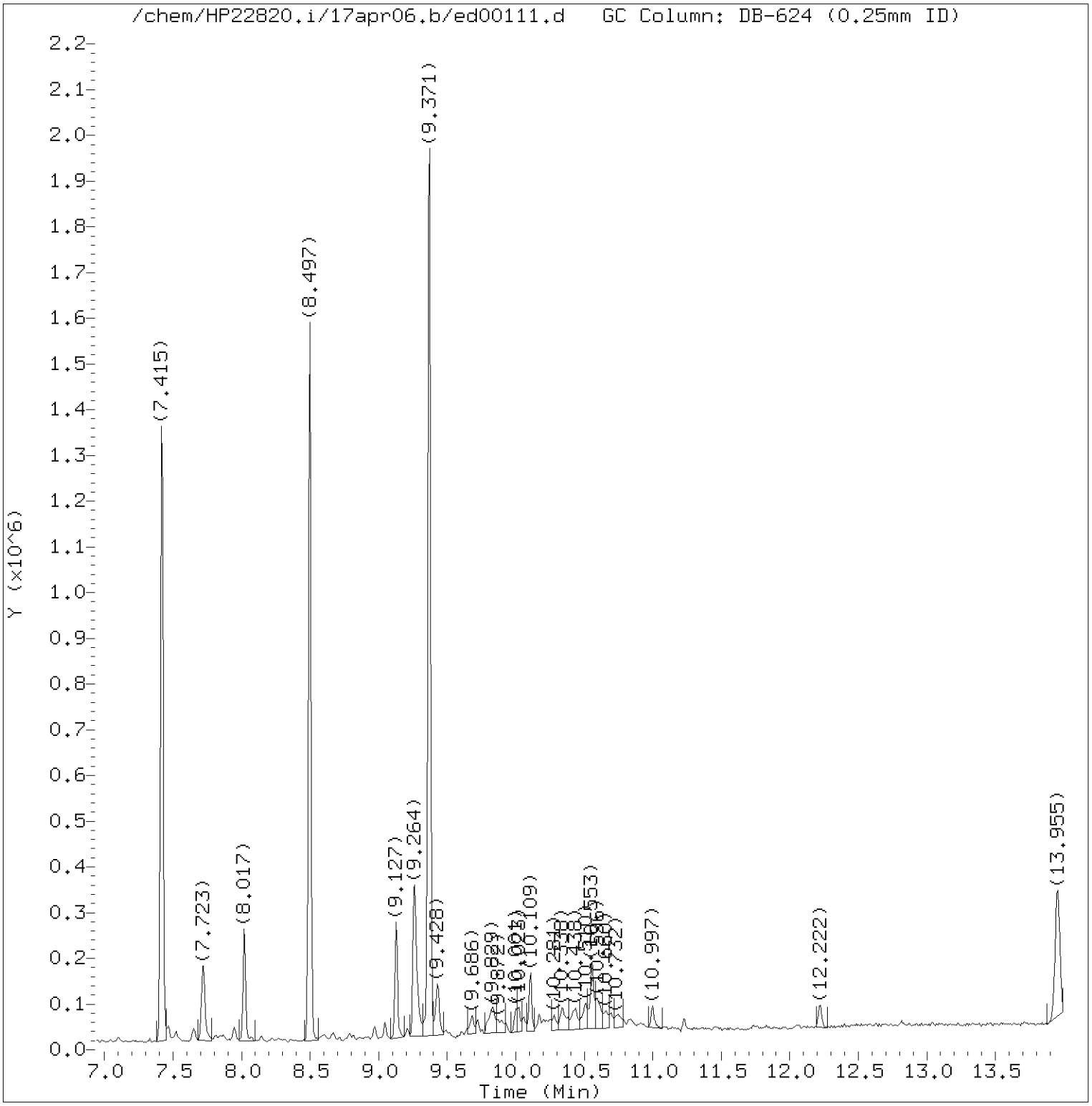
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKOUT Lab Sample ID: 8906229

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKOUT Lab Sample ID: 8906229

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

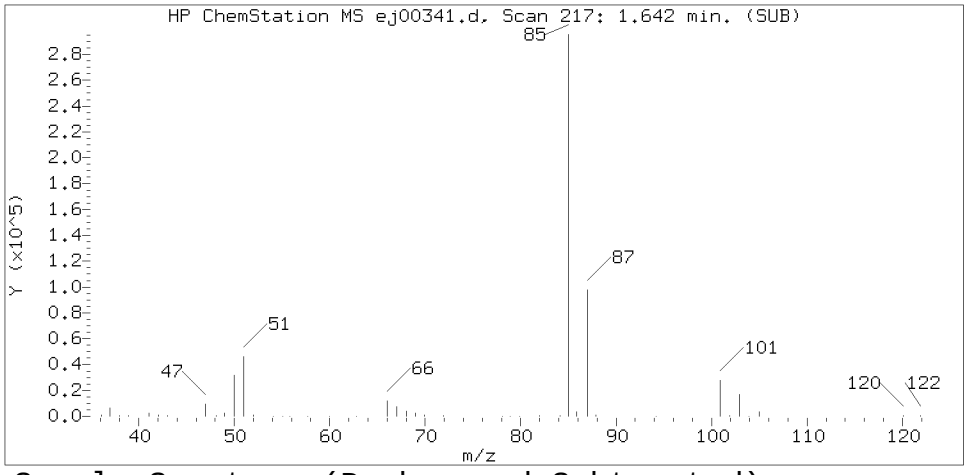
Sample Name: DKOUT Lab Sample ID: 8906229

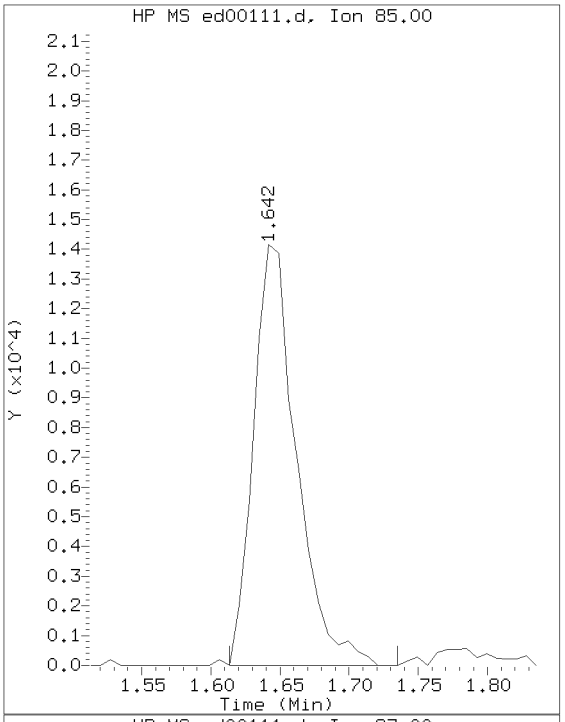
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.642	85	30665	0.623
12) Trichlorofluoromethane	(1)	2.774	101	14097	0.266
13) Pentane	(1)	2.860	43	8075	0.291
19) Acetone	(1)	3.533	43	221984	9.995
37) 2-Butanone	(1)	5.281	72	24912	2.450
40)*Bromochloromethane	(1)	5.474	130	195585	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	752750	10.000
71)*Chlorobenzene-d5	(3)	8.497	117	747292	10.000

* = Compound is an internal standard.

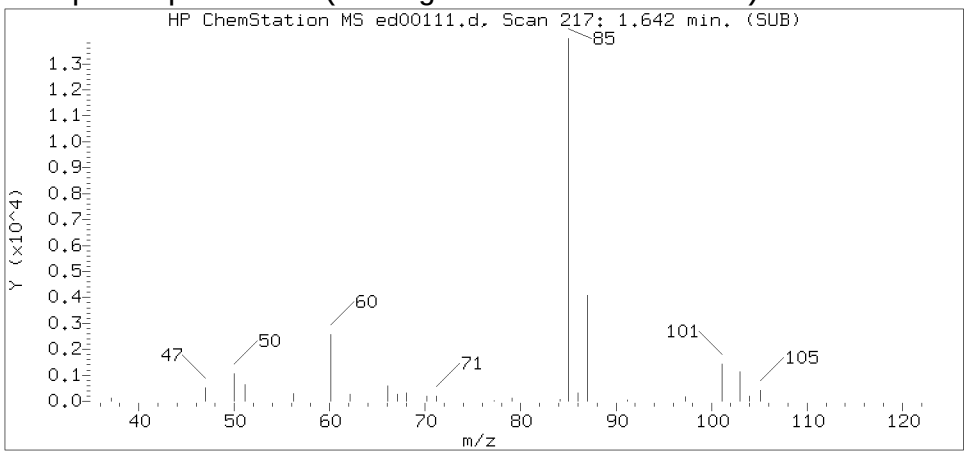
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

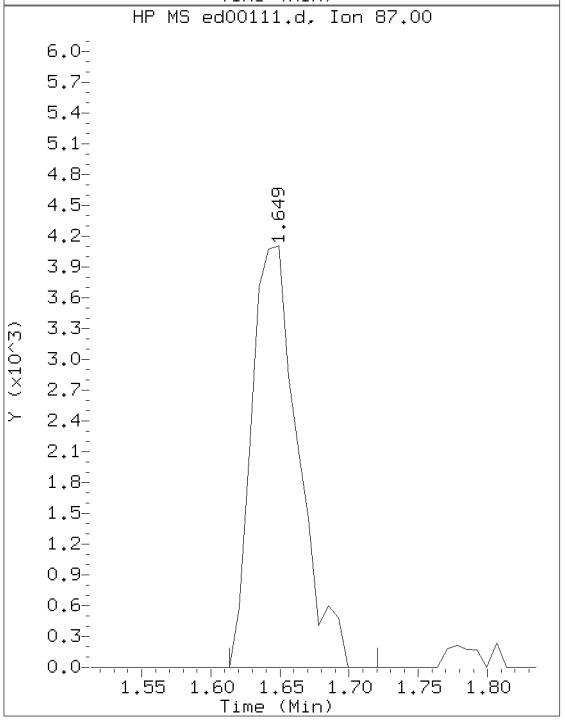
Reference Standard Spectrum for Dichlorodifluoromethane



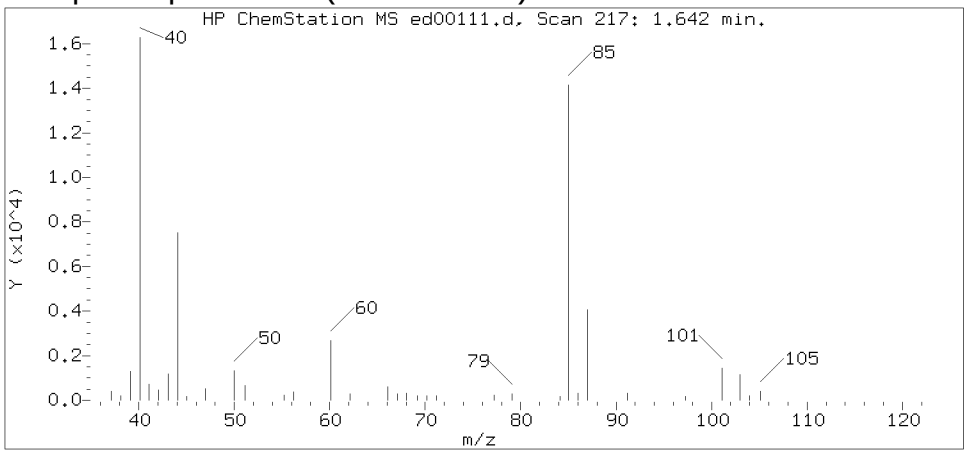


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

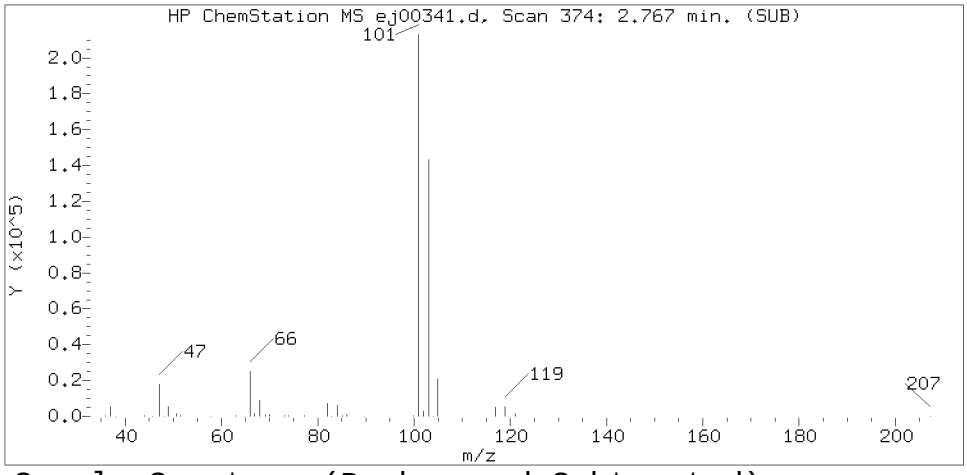
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

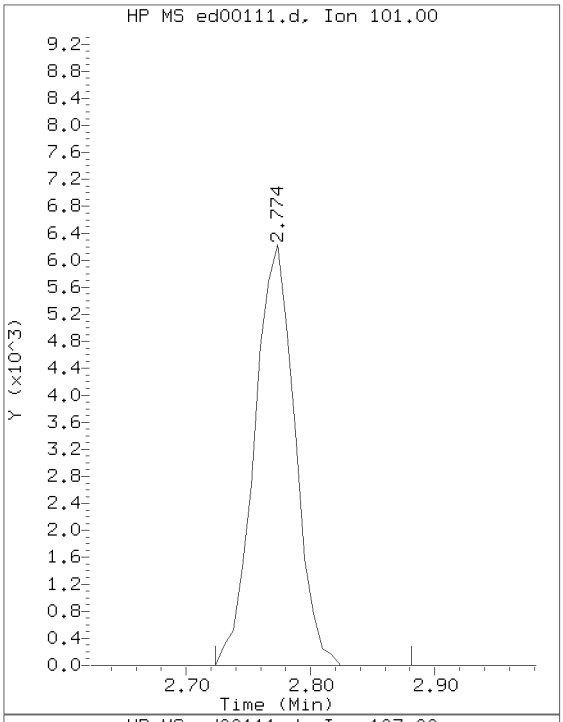
Sample Name: DKOUT Lab Sample ID: 8906229

Compound Number	: 2
Compound Name	: Dichlorodifluoromethane
Scan Number	: 217
Retention Time (minutes)	: 1.642
Relative Retention Time	: 0.00039
Quant Ion	: 85.00
Area (flag)	: 30665
Concentration (ppb(v))	: 0.6227

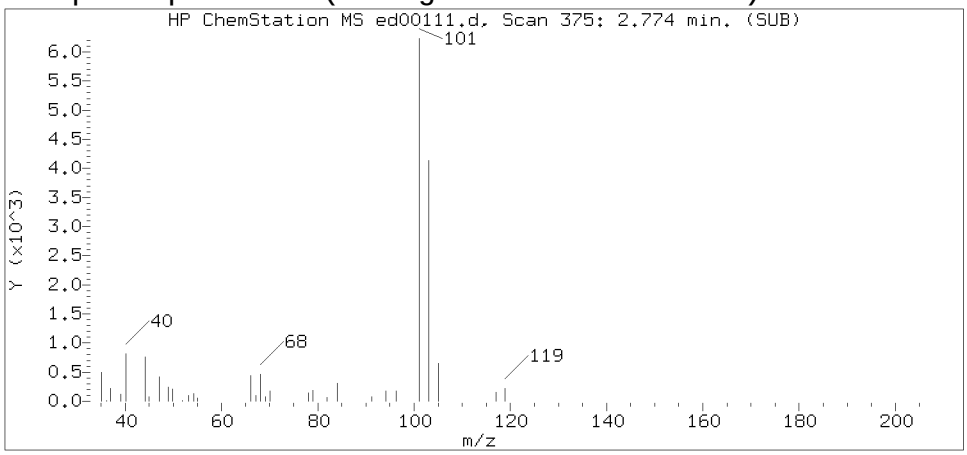
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

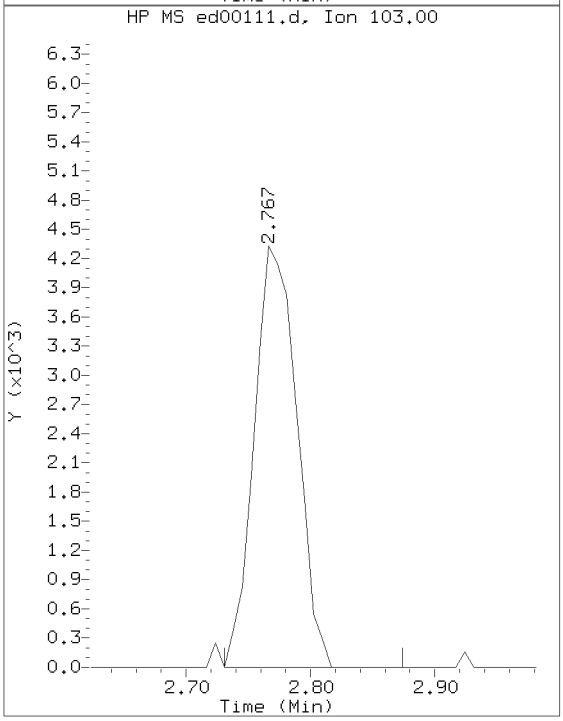
Reference Standard Spectrum for Trichlorofluoromethane



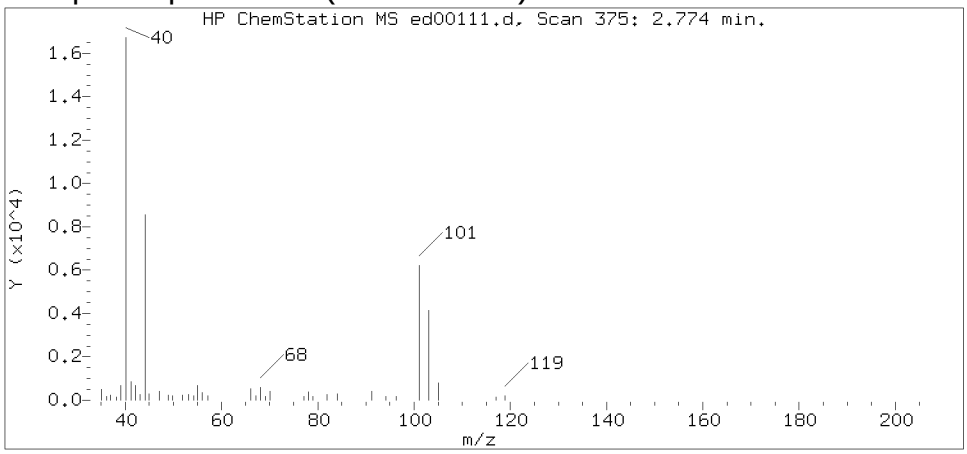


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

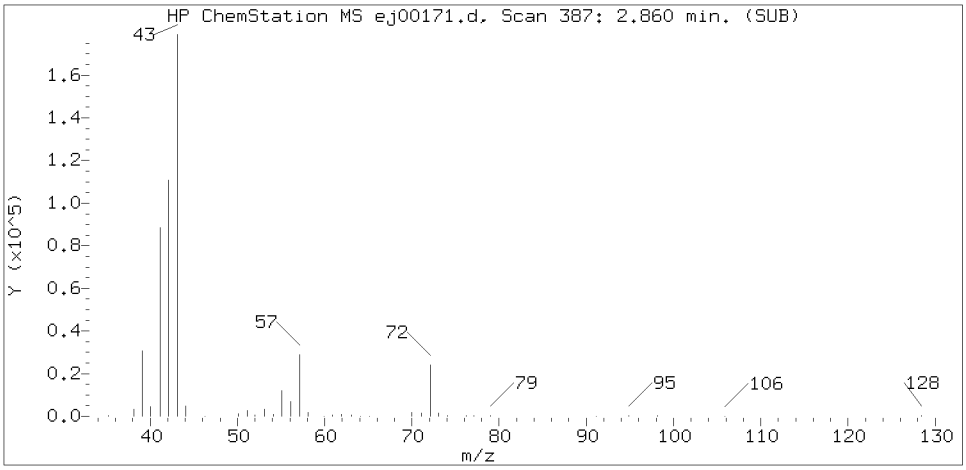
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

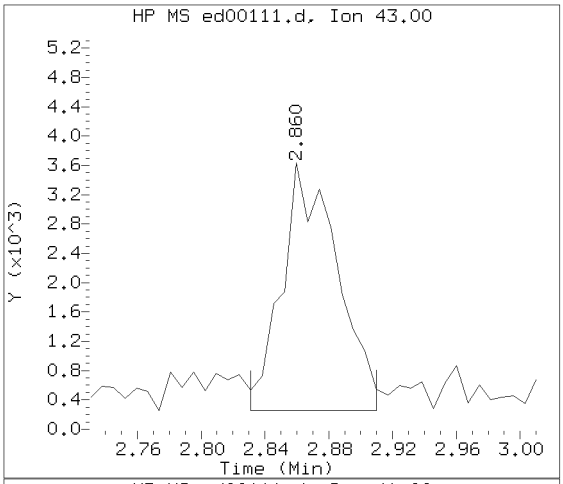
Sample Name: DKOUT Lab Sample ID: 8906229

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 375
Retention Time (minutes): 2.774
Relative Retention Time :-0.00065
Quant Ion : 101.00
Area (flag) : 14097
Concentration (ppb(v)) : 0.2660

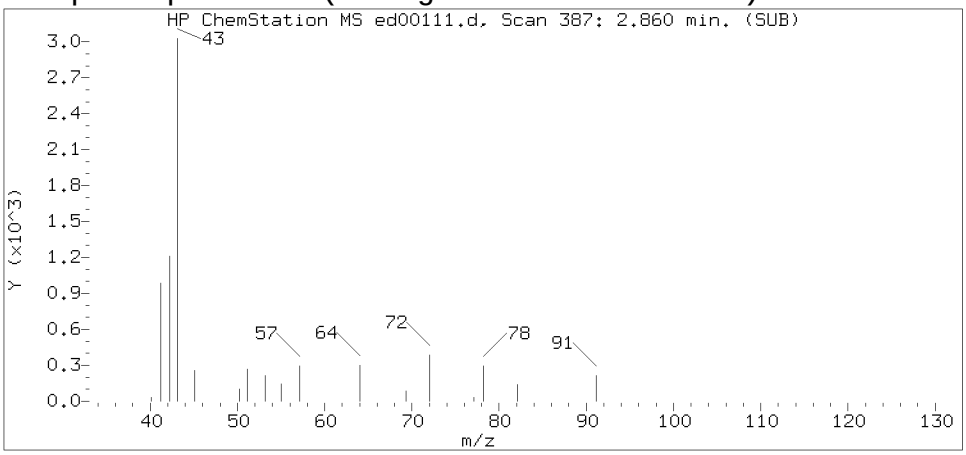
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

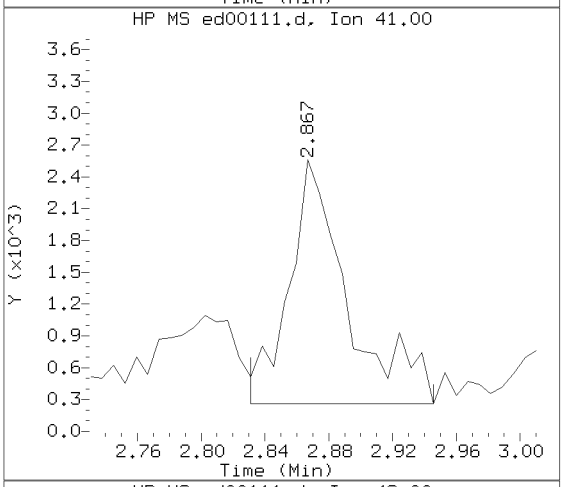
Reference Standard Spectrum for Pentane



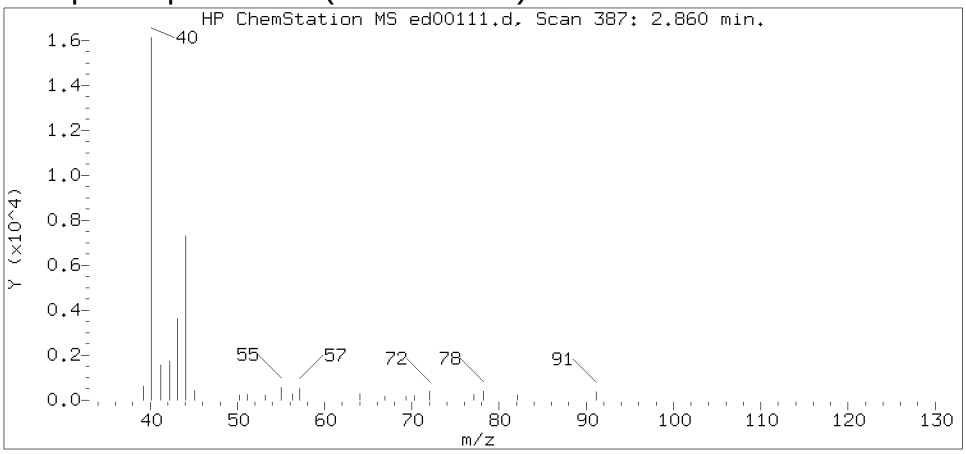


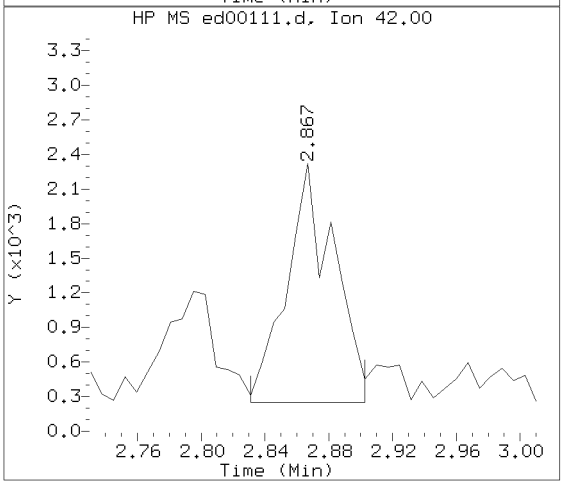
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

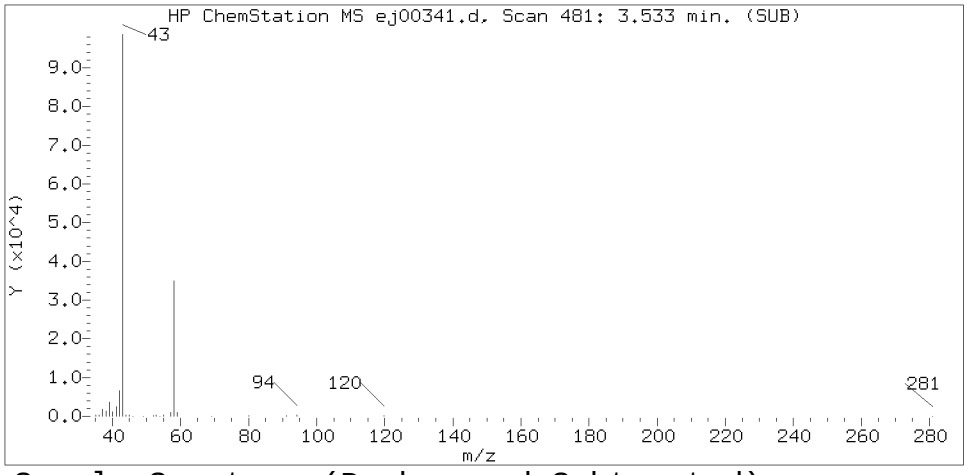
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

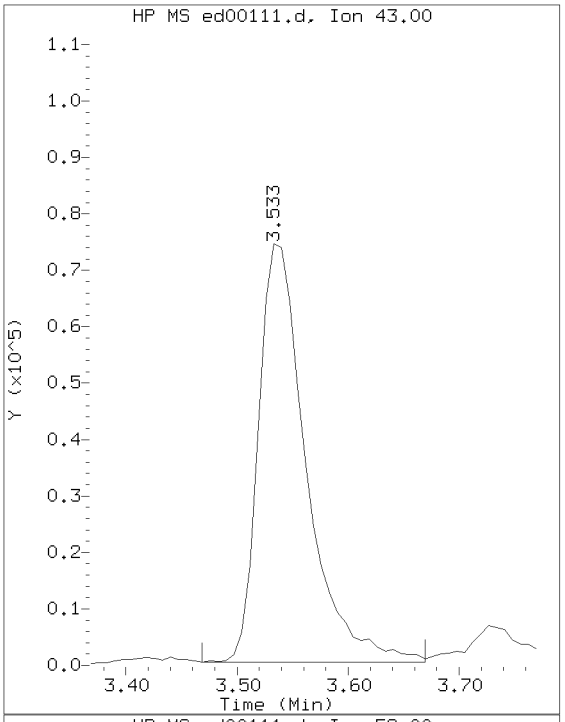
Sample Name: DKOUT Lab Sample ID: 8906229

Compound Number : 13
Compound Name : Pentane
Scan Number : 387
Retention Time (minutes): 2.860
Relative Retention Time : 0.00199
Quant Ion : 43.00
Area (flag) : 8075
Concentration (ppb(v)) : 0.2914

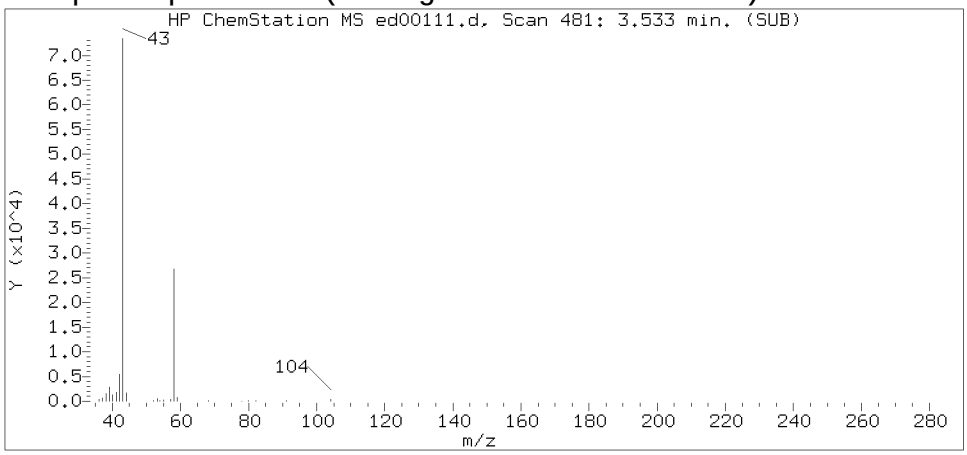
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

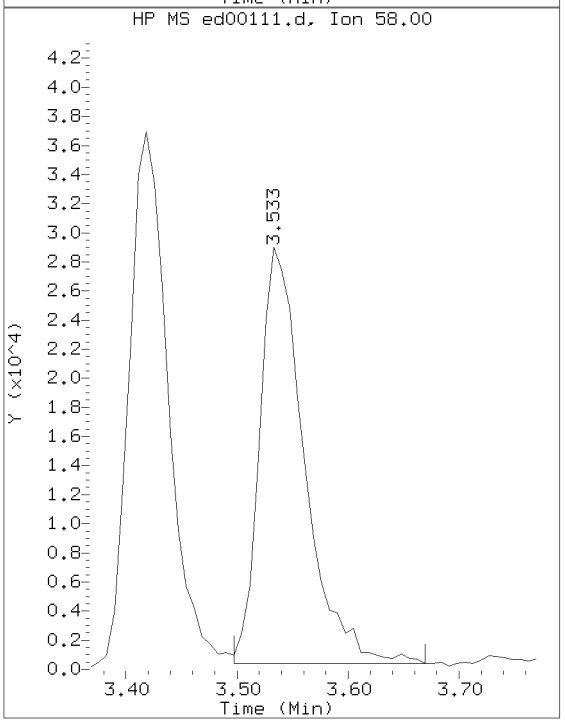
Reference Standard Spectrum for Acetone



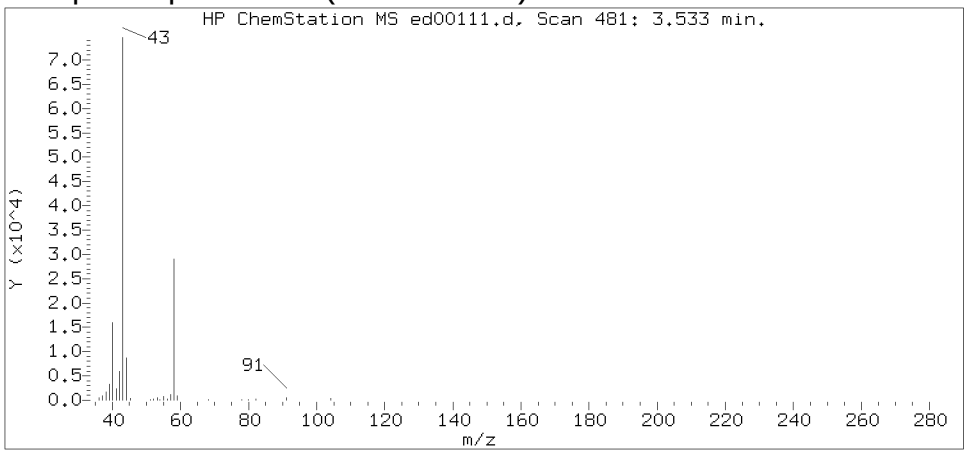


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

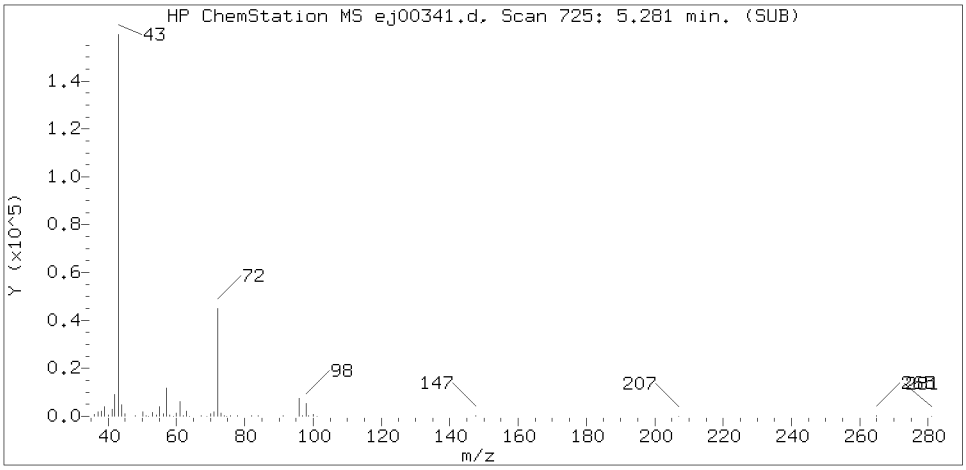
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

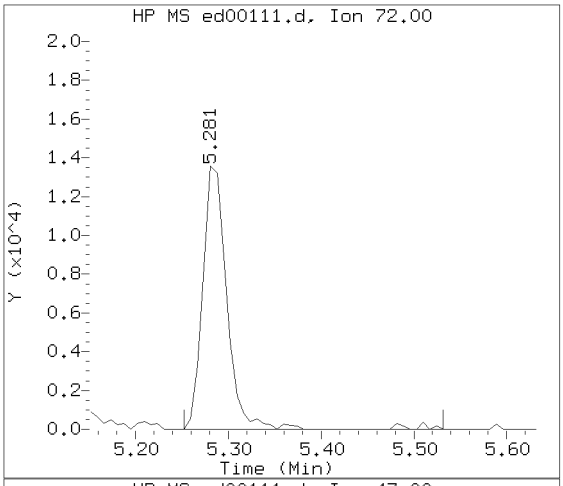
Sample Name: DKOUT Lab Sample ID: 8906229

Compound Number : 19
Compound Name : Acetone
Scan Number : 481
Retention Time (minutes): 3.533
Relative Retention Time : 0.00084
Quant Ion : 43.00
Area (flag) : 221984
Concentration (ppb(v)) : 9.9951

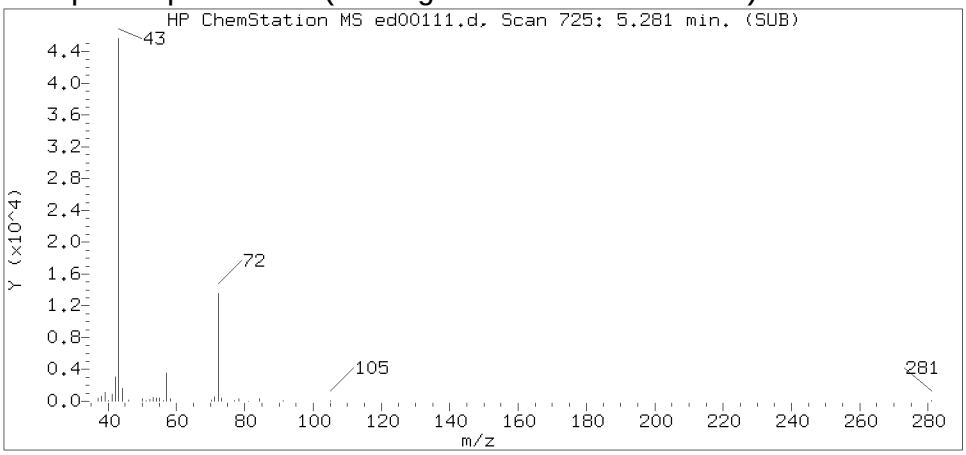
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

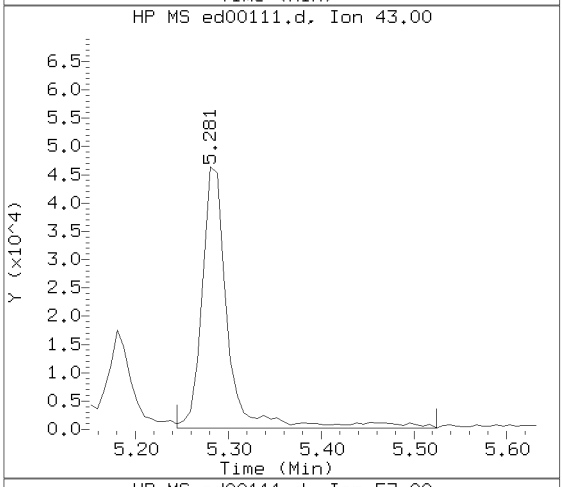
Reference Standard Spectrum for 2-Butanone



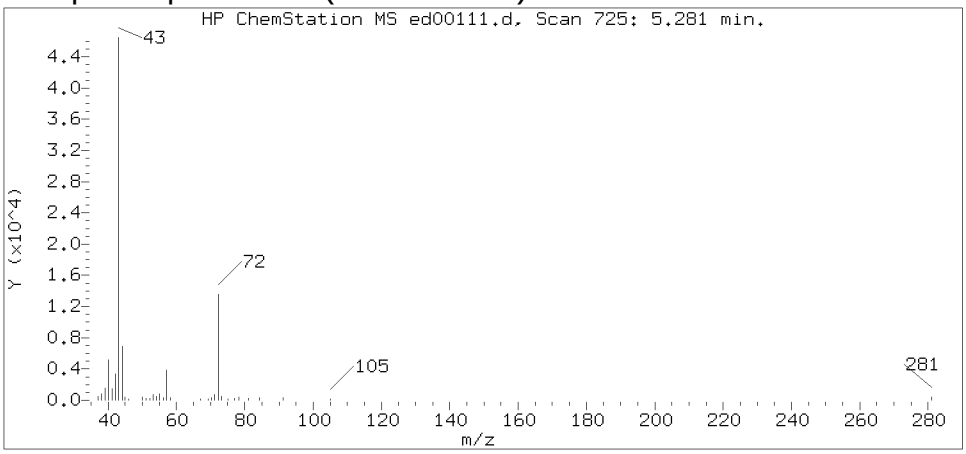


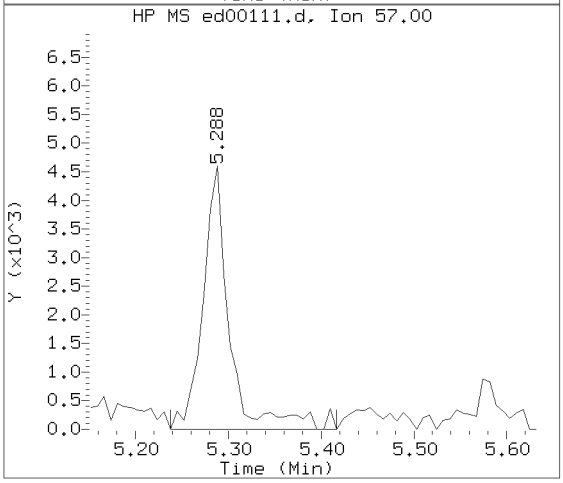
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00111.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 01:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKOUT Lab Sample ID: 8906229

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00126
Quant Ion : 72.00
Area (flag) : 24912
Concentration (ppb(v)) : 2.4503

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

eurofins | Lancaster Laboratories Environmental

FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906230
Canister ID:	1467	Lab File ID:	ed00112.d
Pressure Received:	25.3 psia	Date Collected:	03/22/2017
Final Pressure:	12.6 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	02:02
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	3.7	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	2.5	J
109-66-0	Pentane	0.72	J
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	34	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	6.7	
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906230
Canister ID:	1467	Lab File ID:	ed00112.d
Pressure Received:	25.3 psia	Date Collected:	03/22/2017
Final Pressure:	12.6 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	02:02
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	1.3	J
111-65-9	Octane	1.4	J
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	11	
591-78-6	2-Hexanone	2.0	U
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906230
Canister ID:	1467	Lab File ID:	ed00112.d
Pressure Received:	25.3 psia	Date Collected:	03/22/2017
Final Pressure:	12.6 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	02:02
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

DKACA

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906230

Data file: /chem/HP22820.i/17apr06.b/ed00112.d Injection date and time: **07-APR-2017 02:02**
Data file Sample Info. Line: 8906230;400;E1709630AA;DKACA;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.3 psia Canister Pressure before dilution (Ya): 12.6 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	197578 (-10)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	747228 (-10)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	736999 (-9)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	37677	0.757	0.76		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.767(0.000)	101	23454	0.438	0.44		J	0.2	1
13) Pentane	(1)	2.867(0.000)	43	6871	0.245	0.25		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.533(0.000)	43	321810	14.344	14.34			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	23401	2.278	2.28			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	7.466(-0.000)	91	30042	0.338	0.34		J	0.2	1
62) Octane	(3)	7.523(-0.000)	43	12629	0.289	0.29		J	0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	7.874(-0.000)	166	85823	1.639	1.64			0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00112.d Injection date and time: **07-APR-2017 02:02**
Data file Sample Info. Line: 8906230;400;E1709630AA;DKACA;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

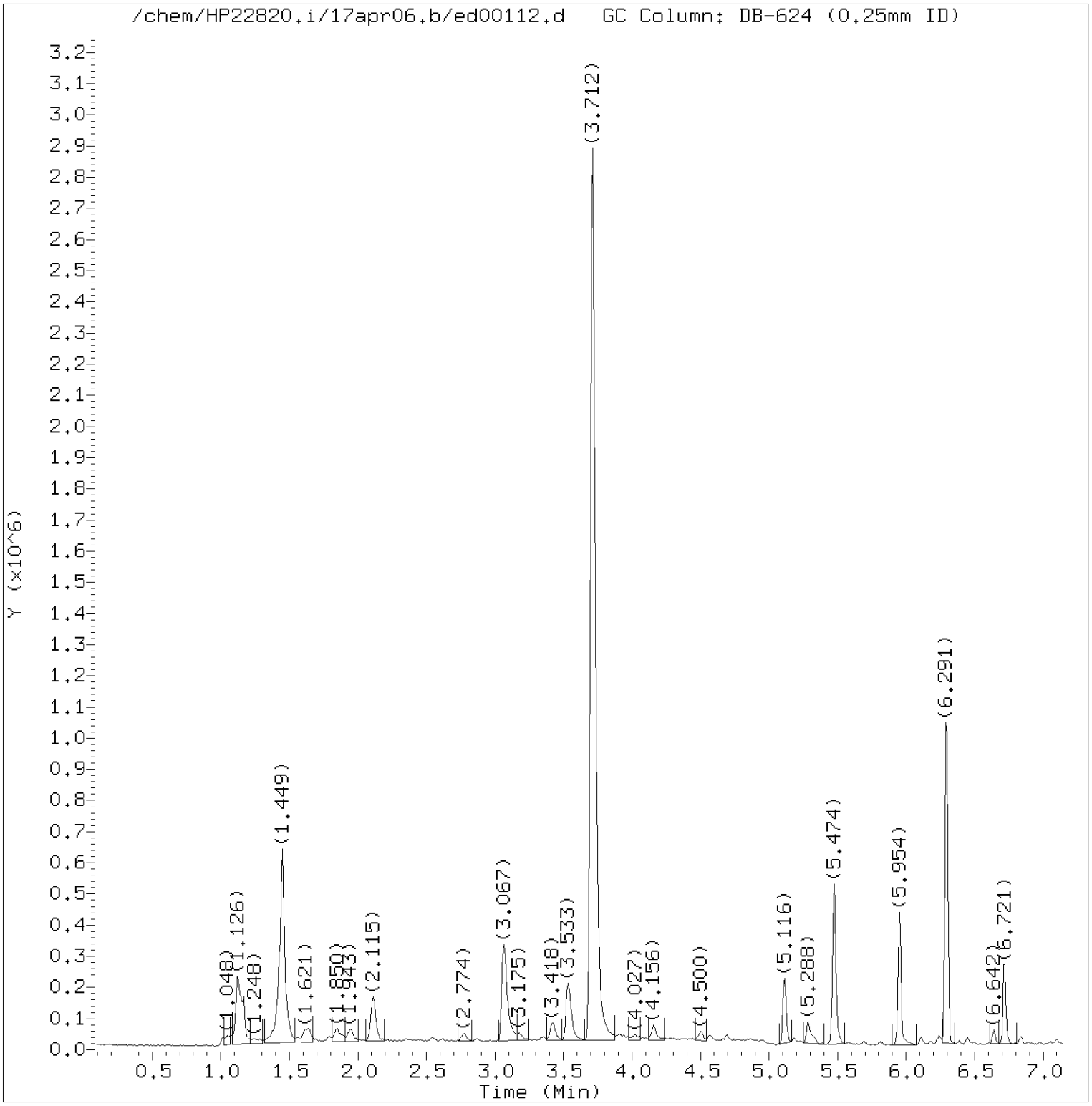
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.3 psia Canister Pressure before dilution (Ya): 12.6 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

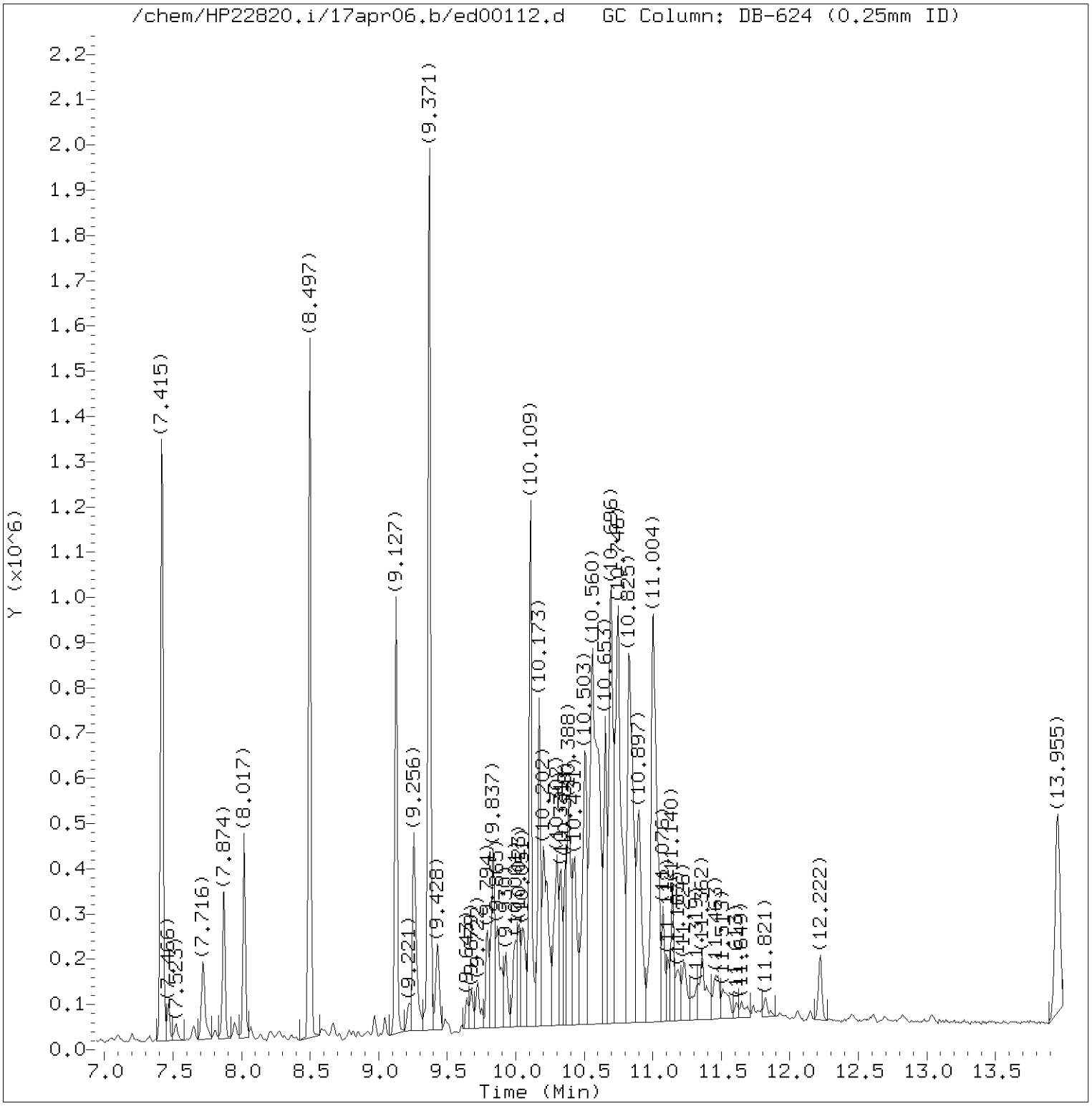
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKACA Lab Sample ID: 8906230

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKACA Lab Sample ID: 8906230

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

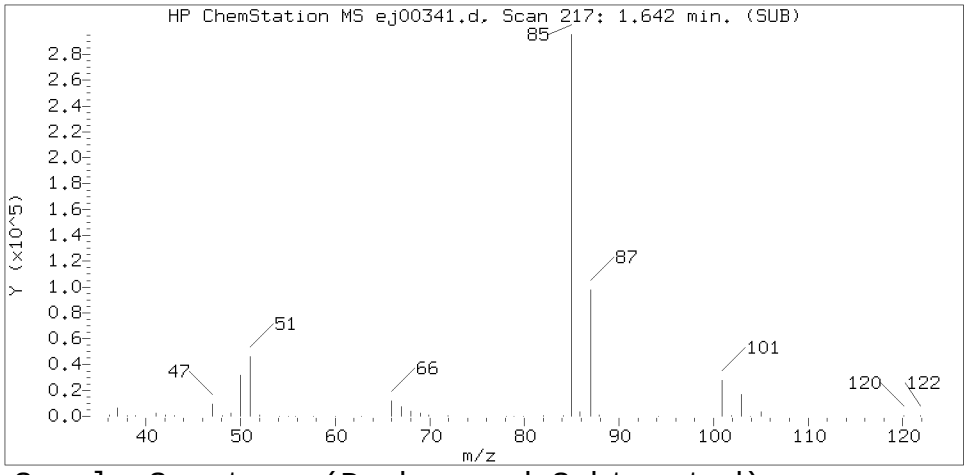
Sample Name: DKACA Lab Sample ID: 8906230

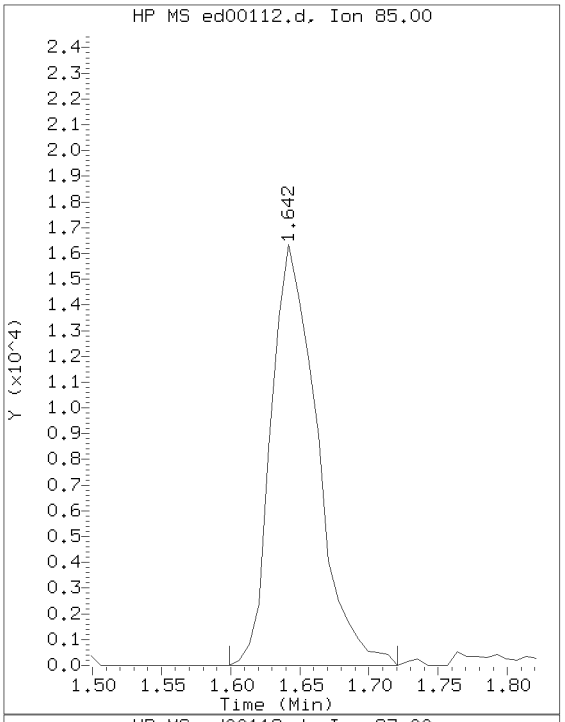
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.642	85	37677	0.757
12) Trichlorofluoromethane	(1)	2.767	101	23454	0.438
13) Pentane	(1)	2.867	43	6871	0.245
19) Acetone	(1)	3.533	43	321810	14.344
37) 2-Butanone	(1)	5.281	72	23401	2.278
40)*Bromochloromethane	(1)	5.474	130	197578	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	747228	10.000
61) Toluene	(3)	7.466	91	30042	0.338
62) Octane	(3)	7.523	43	12629	0.289
67) Tetrachloroethene	(3)	7.874	166	85823	1.639
71)*Chlorobenzene-d5	(3)	8.497	117	736999	10.000

* = Compound is an internal standard.

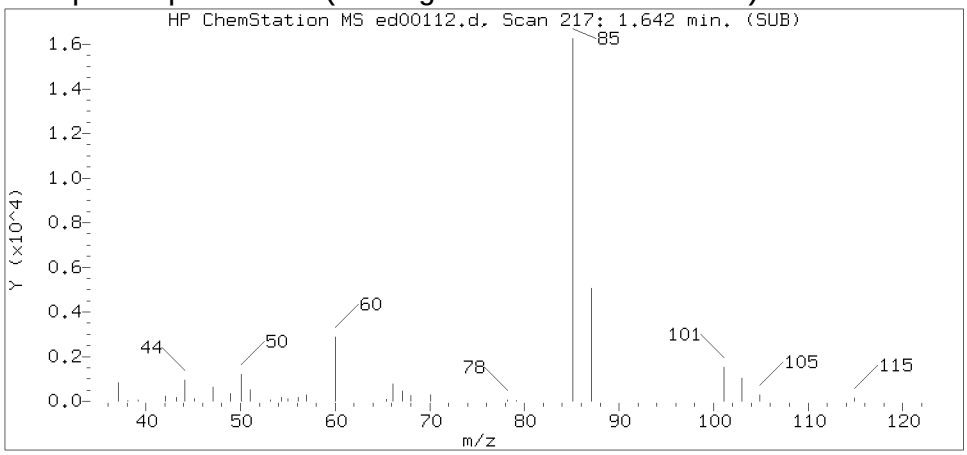
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

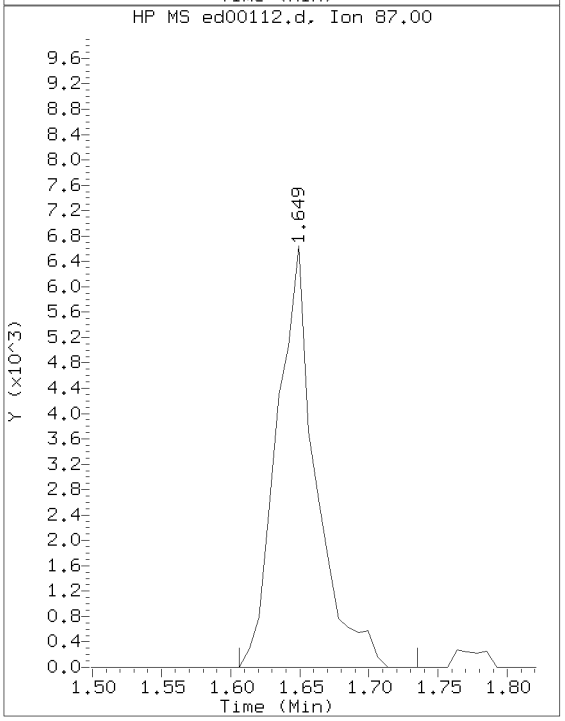
Reference Standard Spectrum for Dichlorodifluoromethane



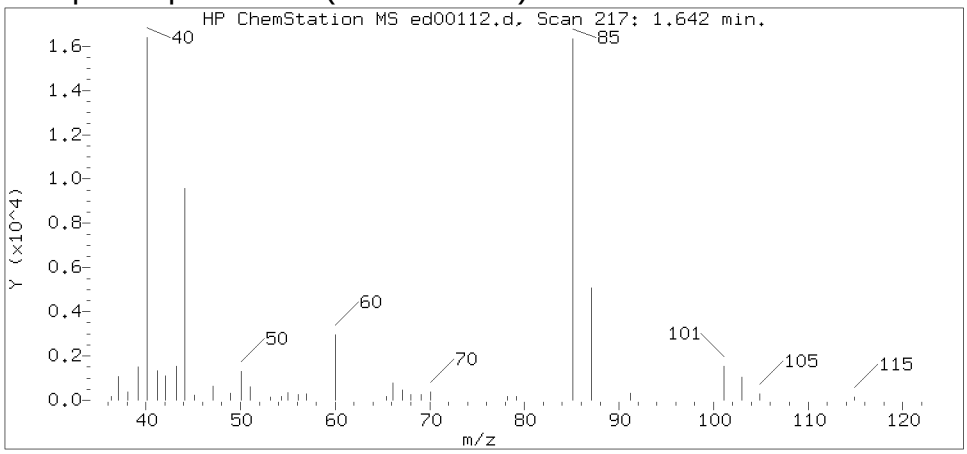


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

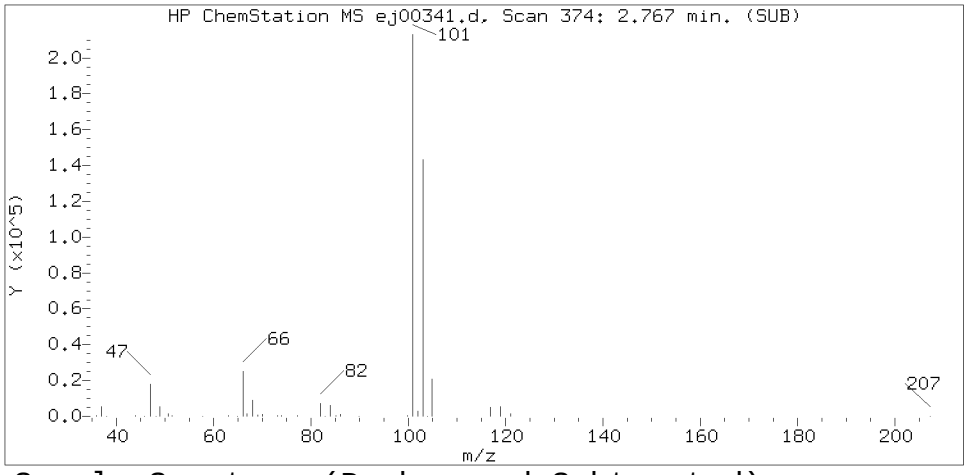
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

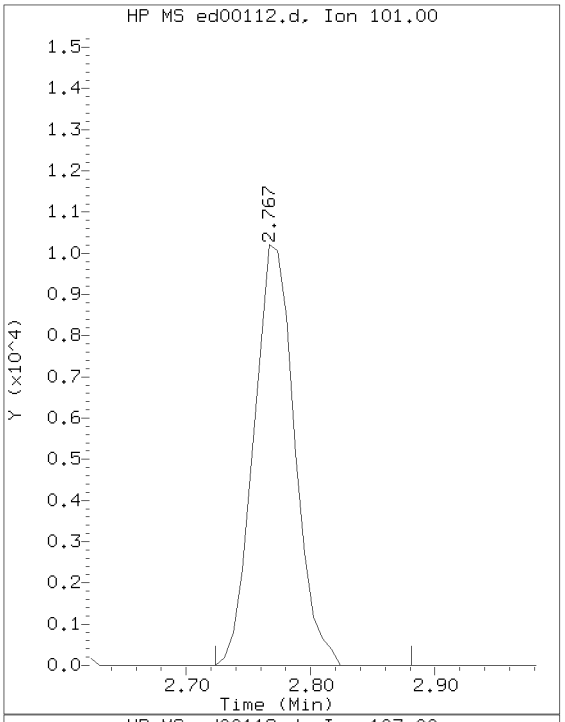
Sample Name: DKACA Lab Sample ID: 8906230

Compound Number	: 2
Compound Name	: Dichlorodifluoromethane
Scan Number	: 217
Retention Time (minutes)	: 1.642
Relative Retention Time	: 0.00039
Quant Ion	: 85.00
Area (flag)	: 37677
Concentration (ppb(v))	: 0.7573

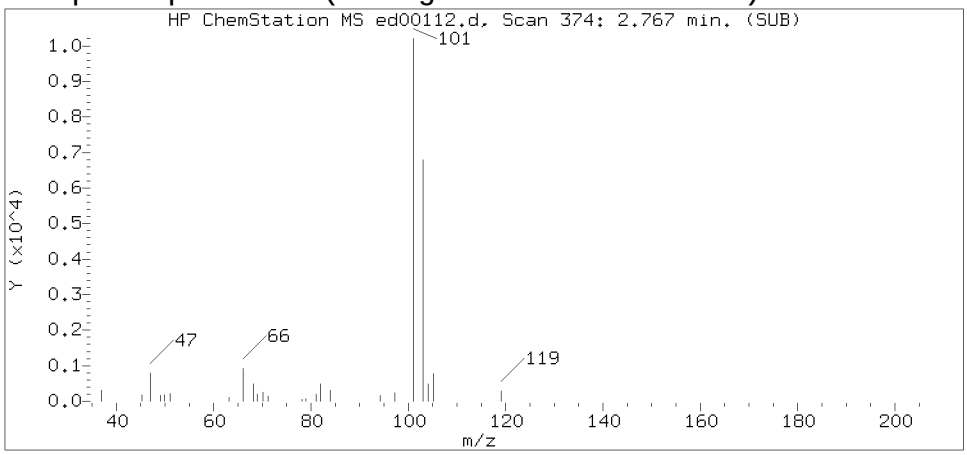
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

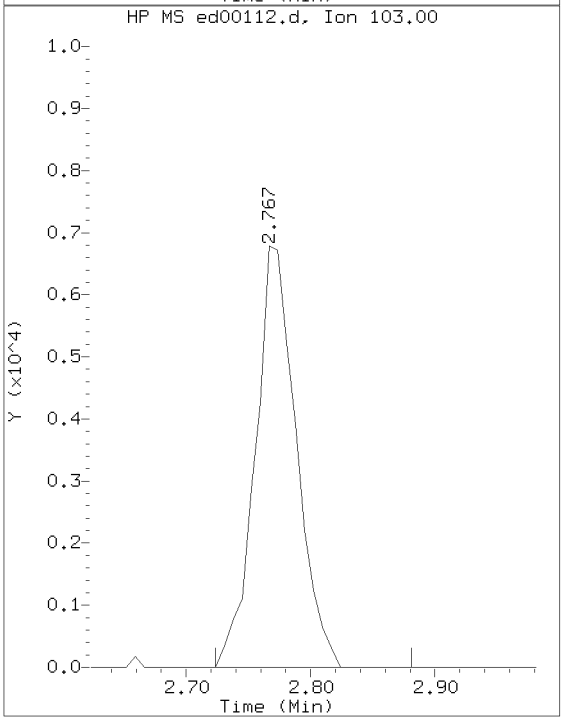
Reference Standard Spectrum for Trichlorofluoromethane



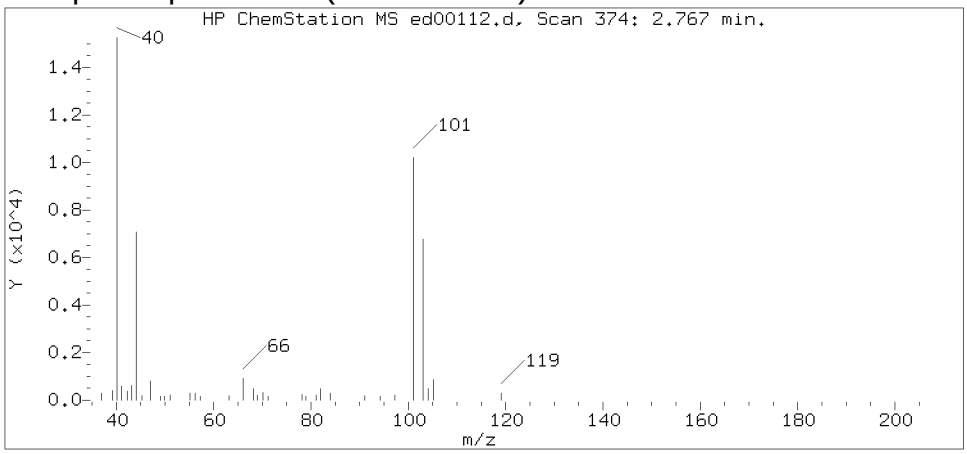


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

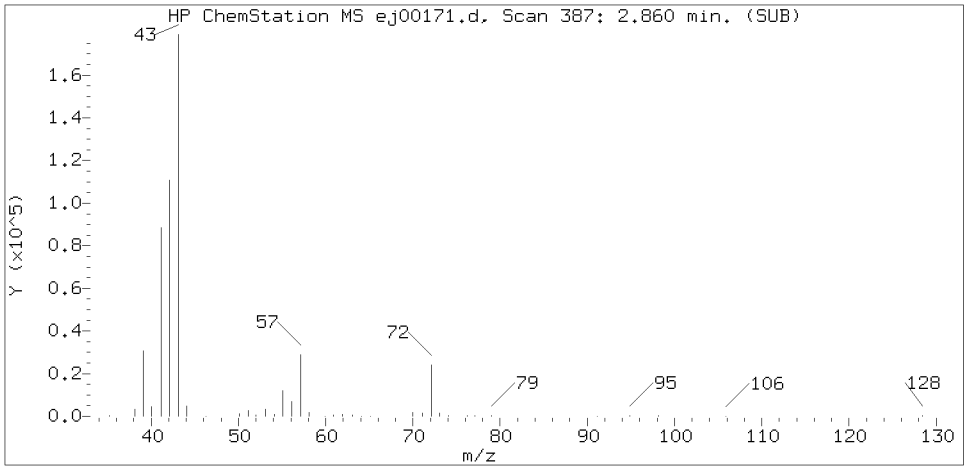
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

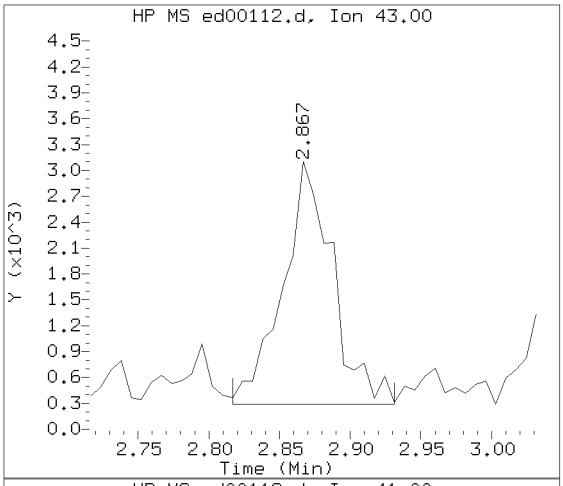
Sample Name: DKACA Lab Sample ID: 8906230

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 374
Retention Time (minutes): 2.767
Relative Retention Time : 0.00066
Quant Ion : 101.00
Area (flag) : 23454
Concentration (ppb(v)) : 0.4381

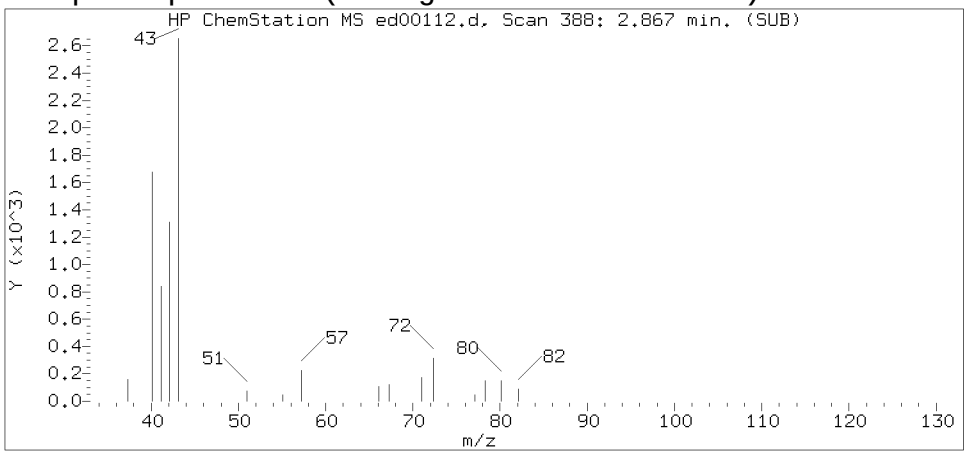
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

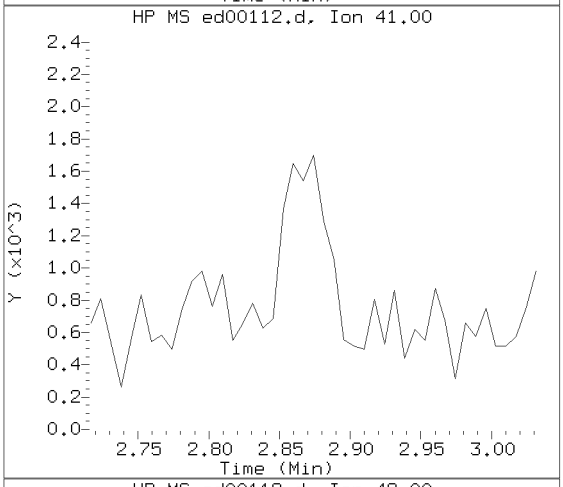
Reference Standard Spectrum for Pentane



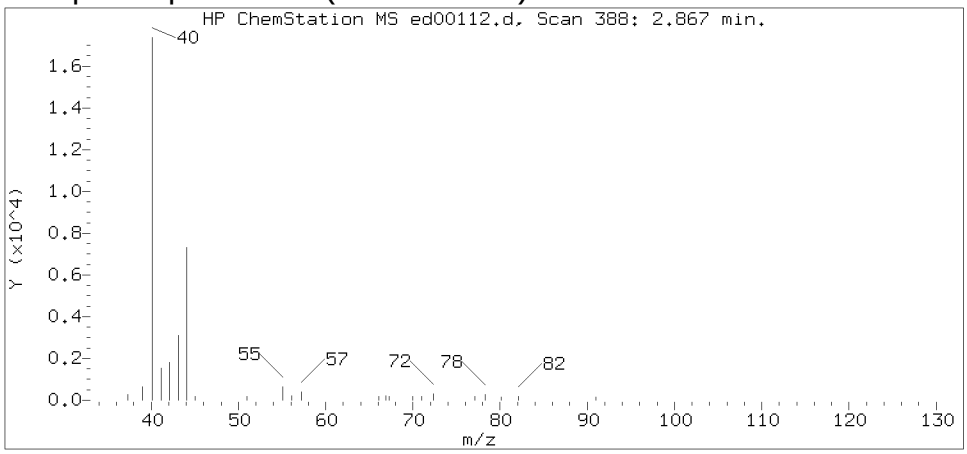


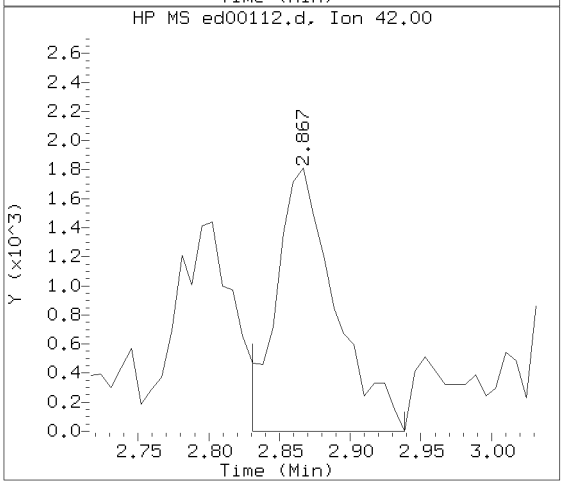
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

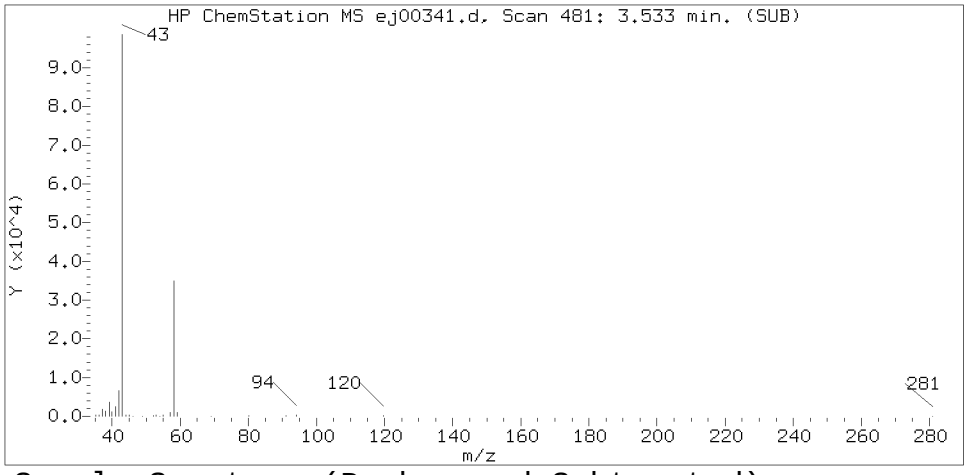
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

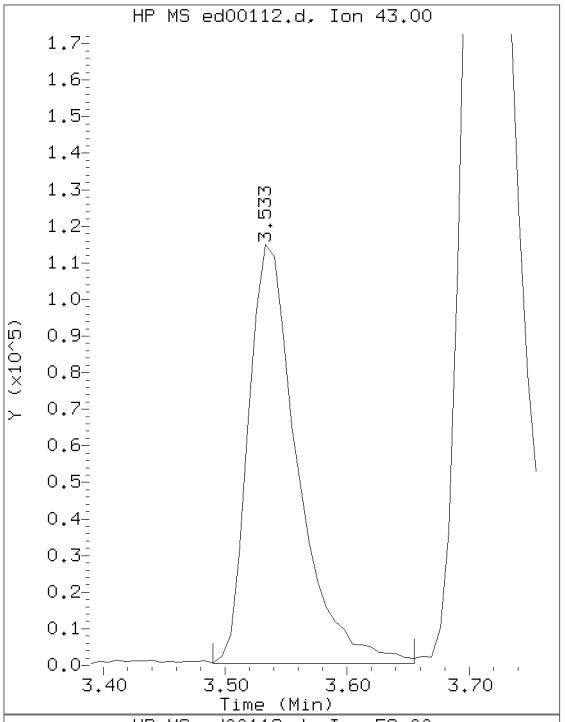
Sample Name: DKACA Lab Sample ID: 8906230

Compound Number : 13
Compound Name : Pentane
Scan Number : 388
Retention Time (minutes): 2.867
Relative Retention Time : 0.00069
Quant Ion : 43.00
Area (flag) : 6871
Concentration (ppb(v)) : 0.2455

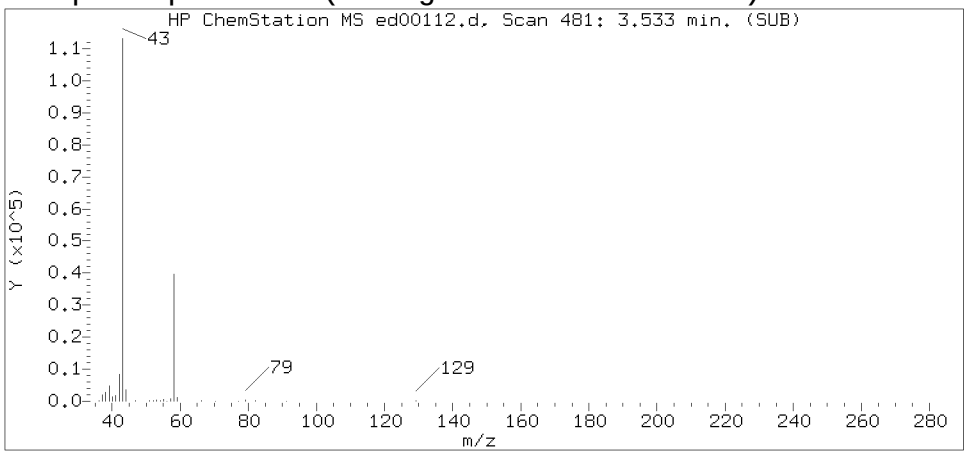
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

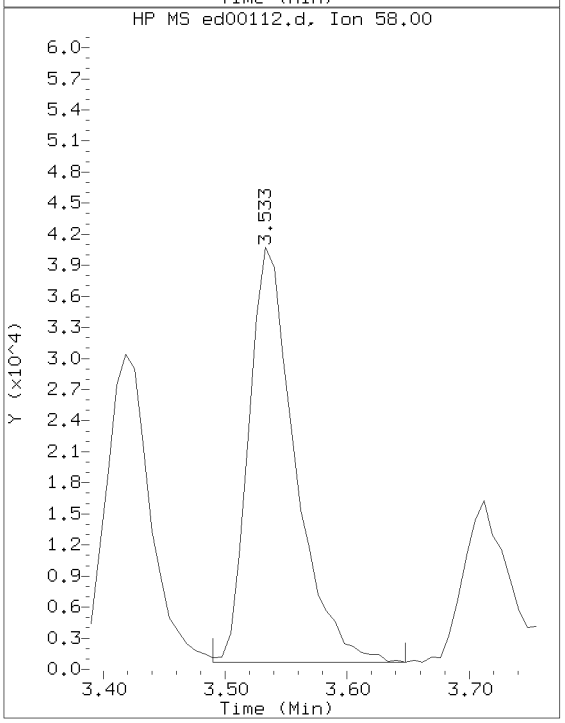
Reference Standard Spectrum for Acetone



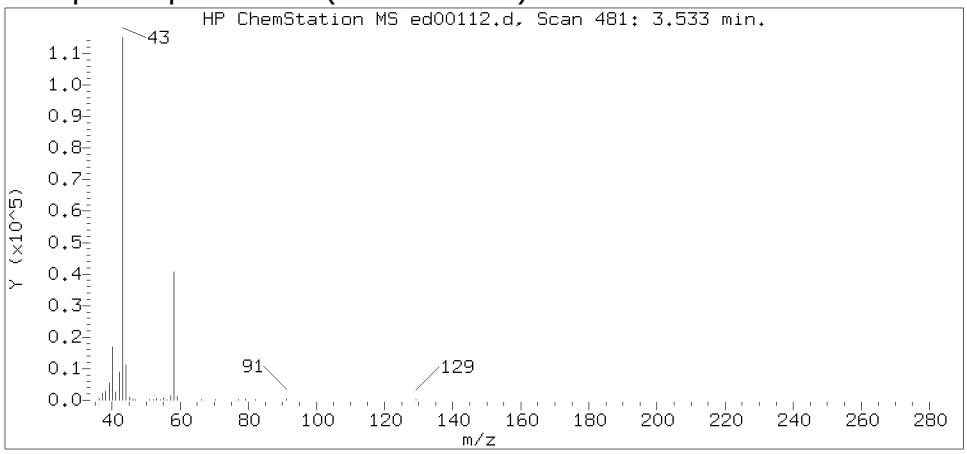


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

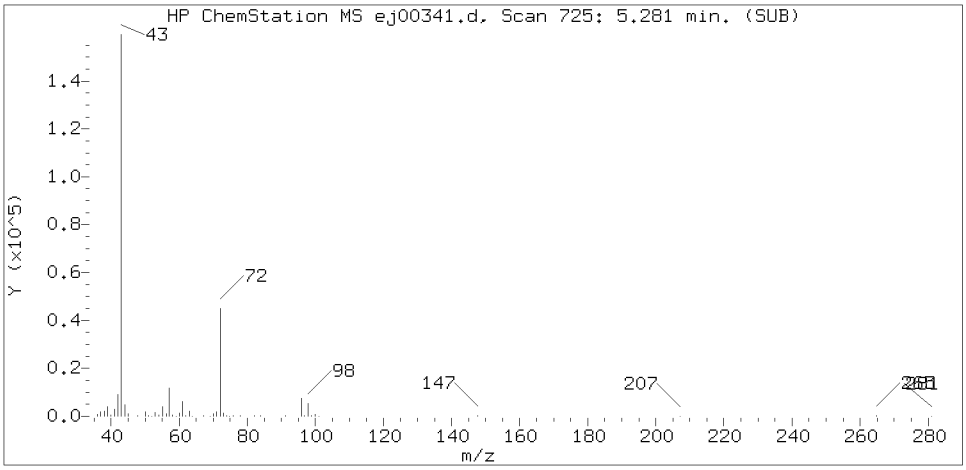
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

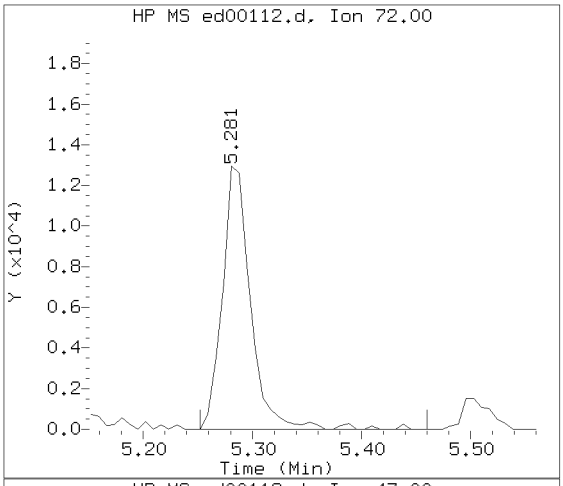
Sample Name: DKACA Lab Sample ID: 8906230

Compound Number : 19
Compound Name : Acetone
Scan Number : 481
Retention Time (minutes): 3.533
Relative Retention Time : 0.00084
Quant Ion : 43.00
Area (flag) : 321810
Concentration (ppb(v)) : 14.3438

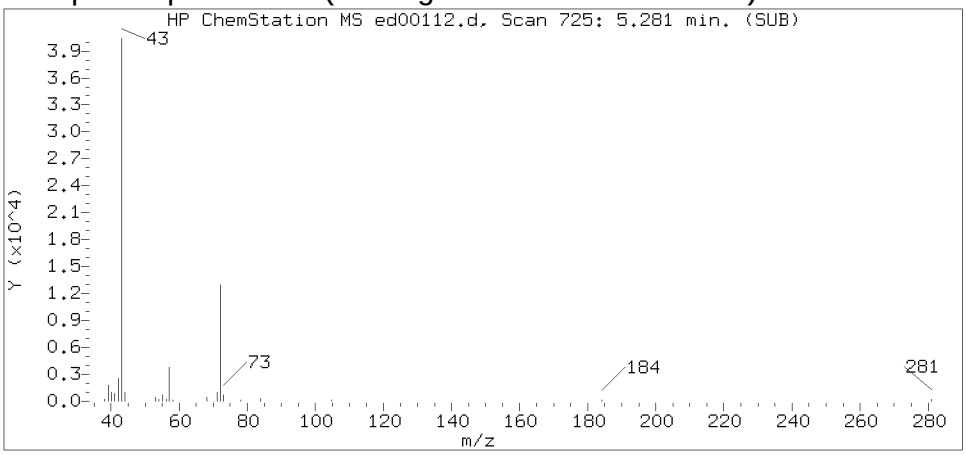
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

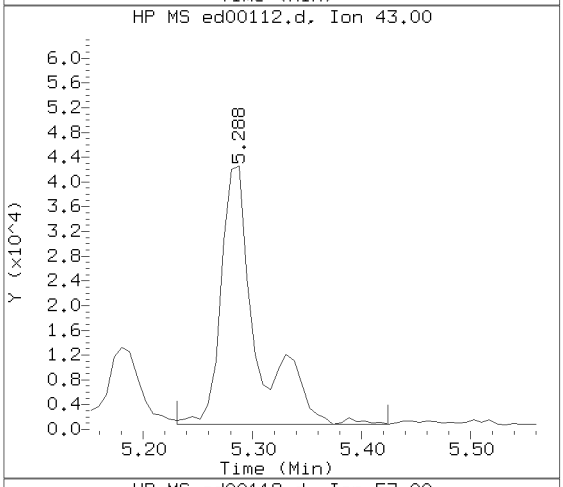
Reference Standard Spectrum for 2-Butanone



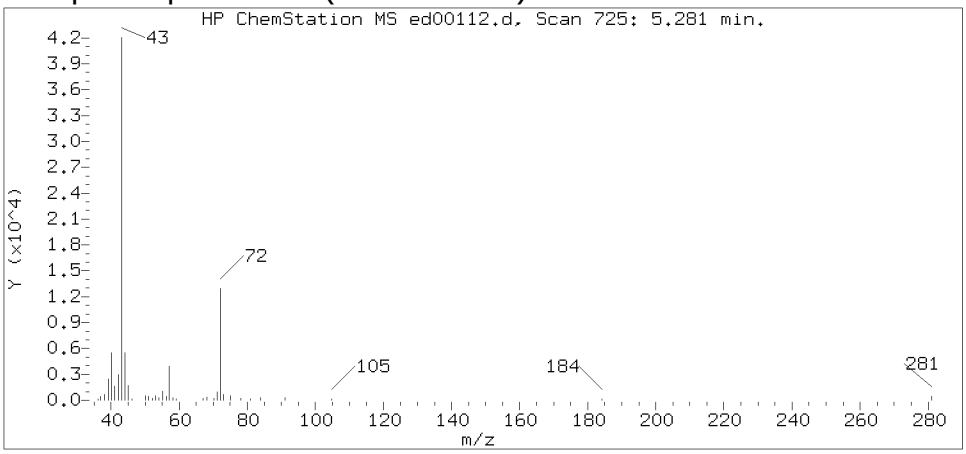


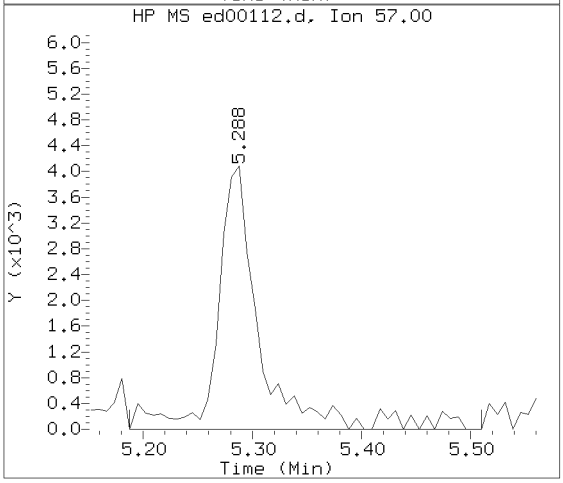
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

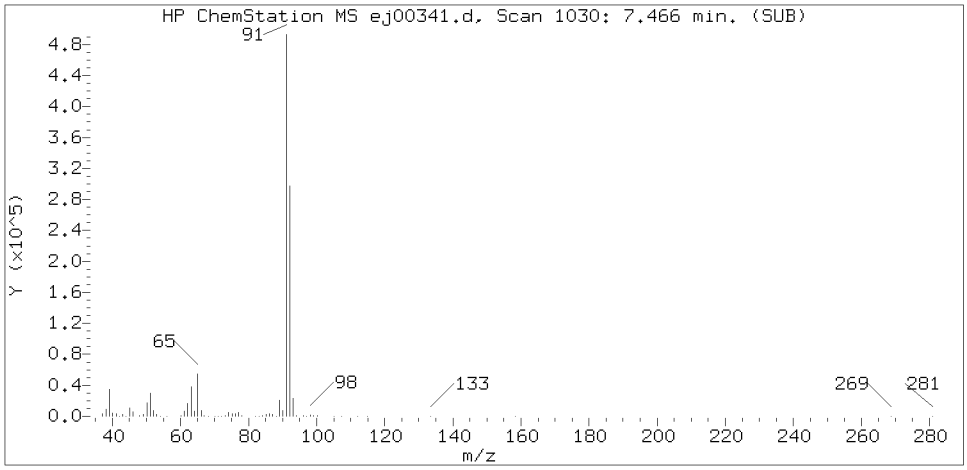
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

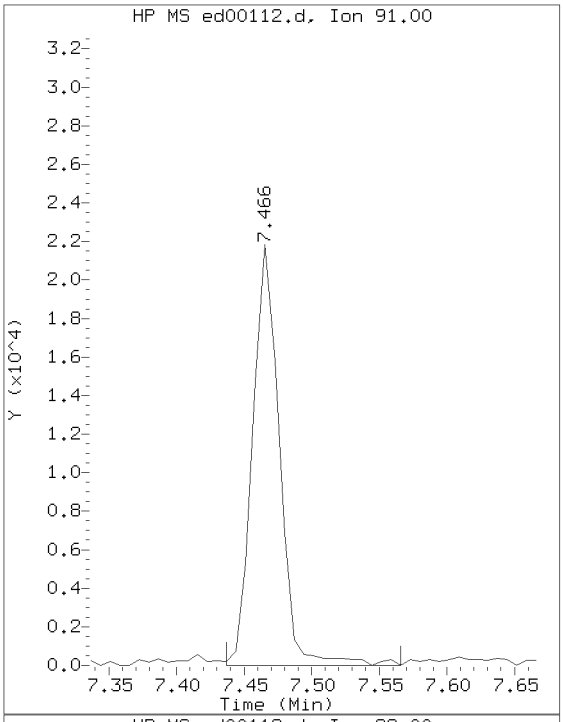
Sample Name: DKACA Lab Sample ID: 8906230

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00126
Quant Ion : 72.00
Area (flag) : 23401
Concentration (ppb(v)) : 2.2785

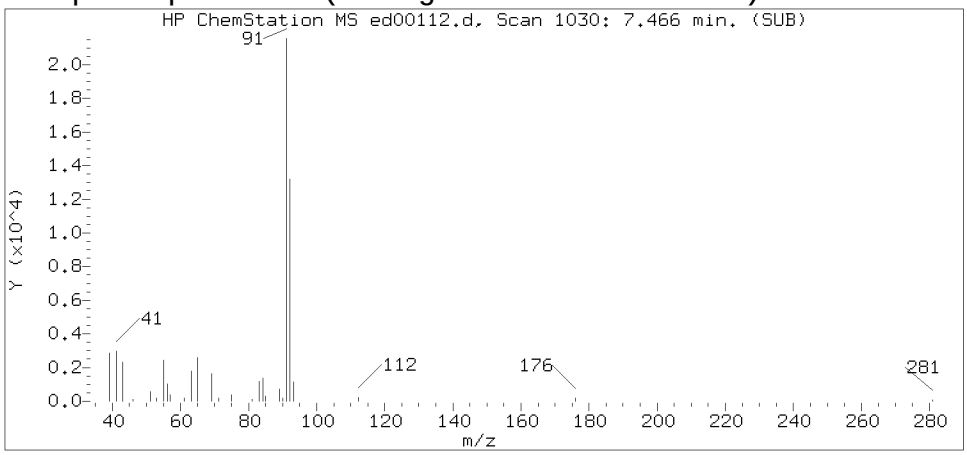
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

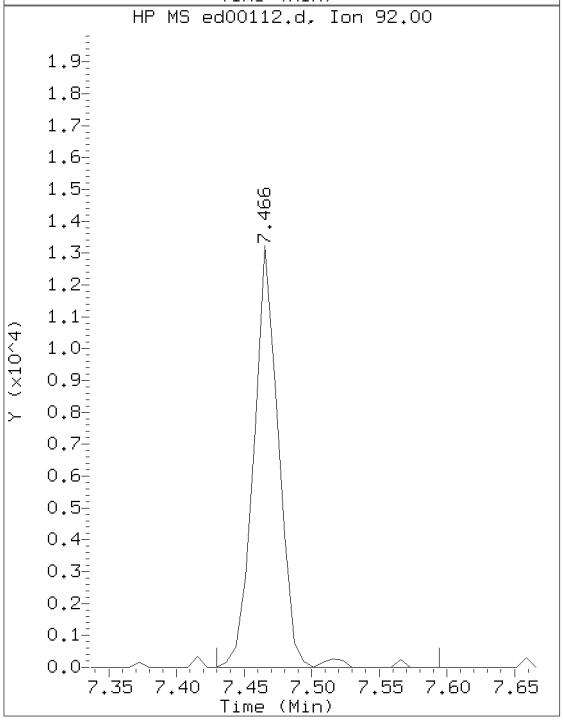
Reference Standard Spectrum for Toluene



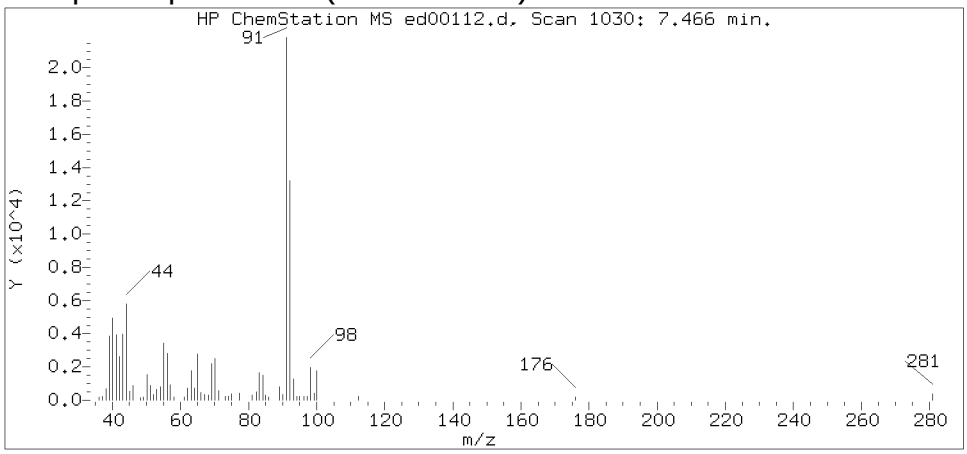


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

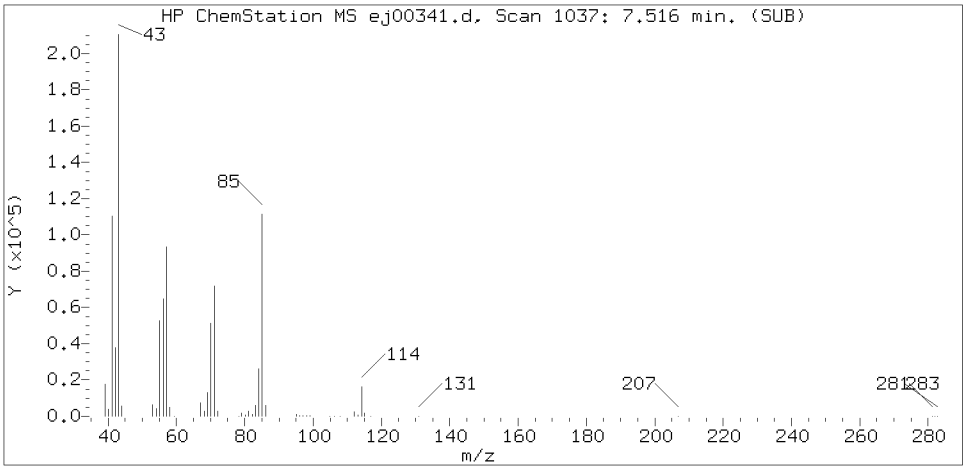
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

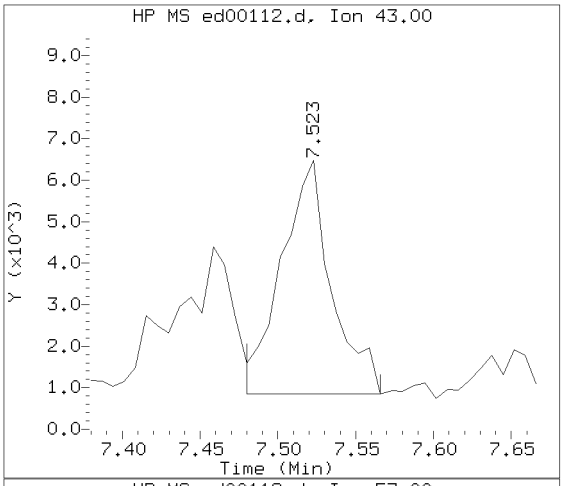
Sample Name: DKACA Lab Sample ID: 8906230

Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.466
Relative Retention Time :-0.00000
Quant Ion : 91.00
Area (flag) : 30042
Concentration (ppb(v)) : 0.3377

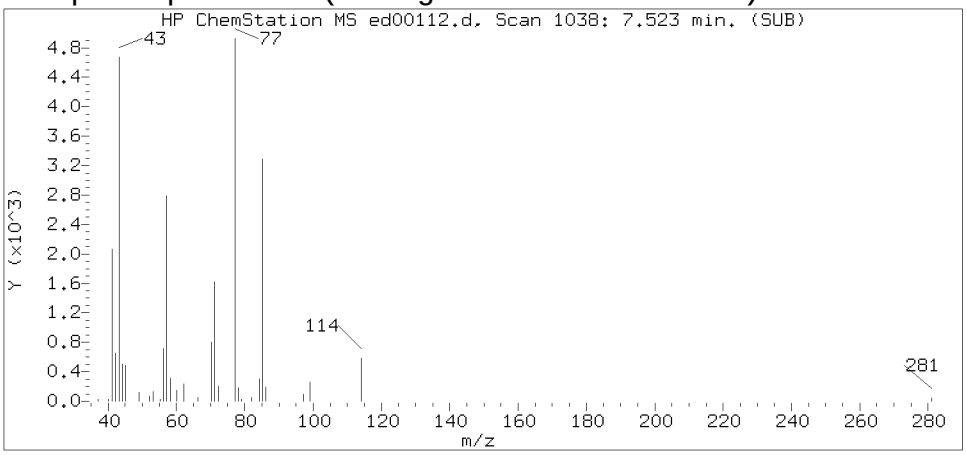
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

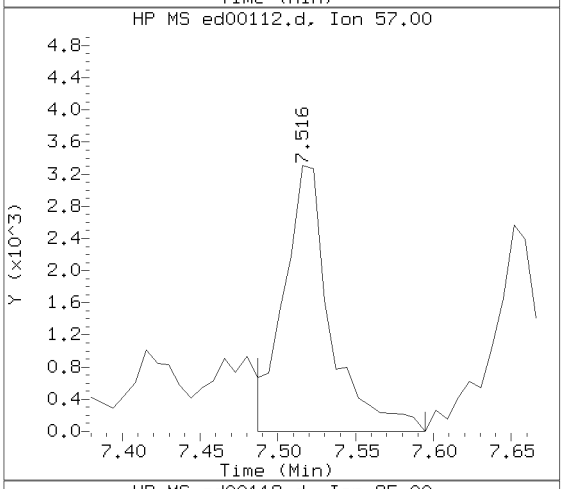
Reference Standard Spectrum for Octane



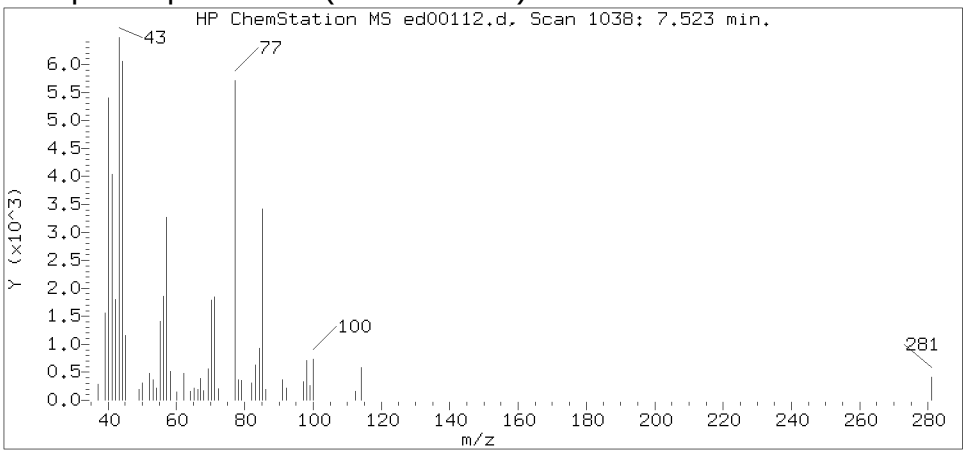


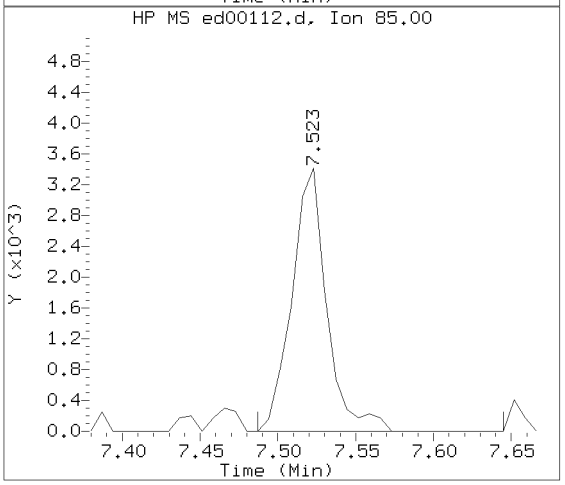
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

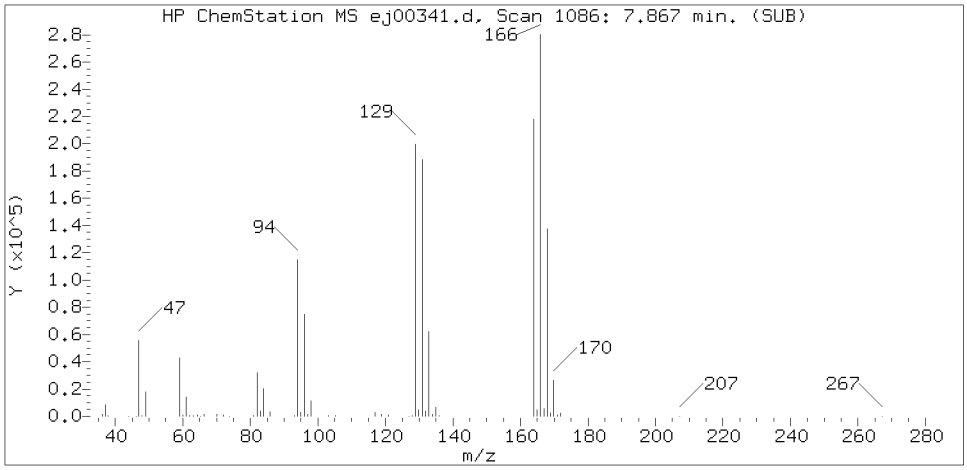
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

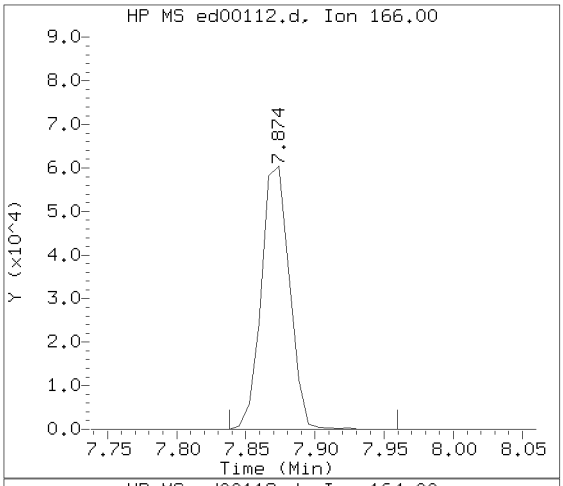
Sample Name: DKACA Lab Sample ID: 8906230

Compound Number : 62
Compound Name : Octane
Scan Number : 1038
Retention Time (minutes): 7.523
Relative Retention Time :-0.00084
Quant Ion : 43.00
Area (flag) : 12629
Concentration (ppb(v)) : 0.2892

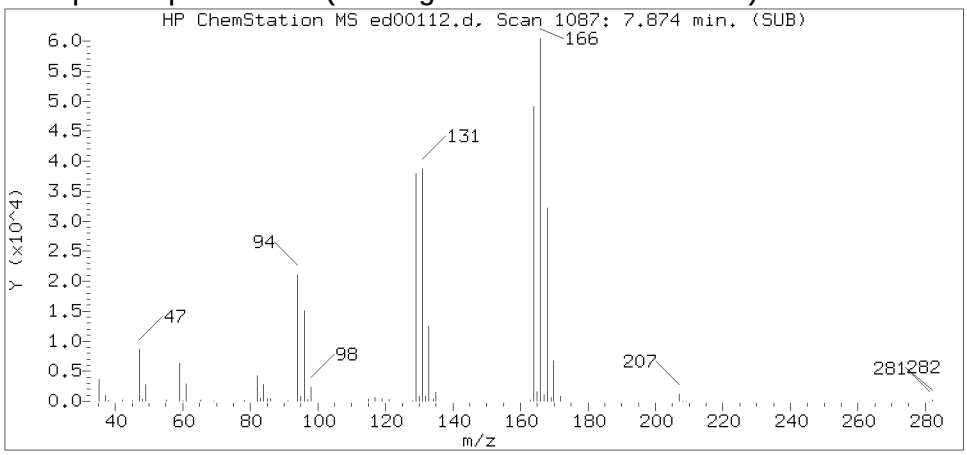
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

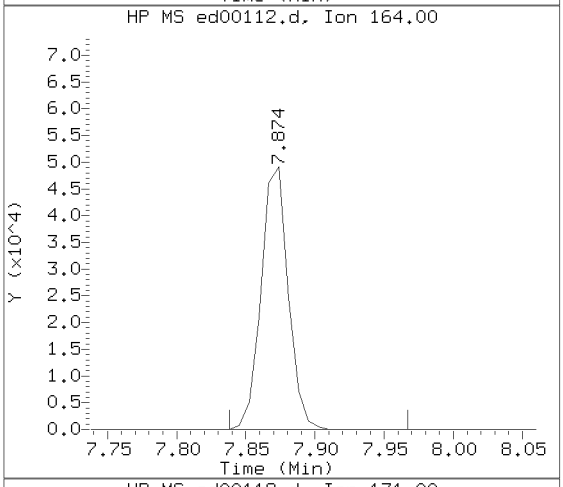
Reference Standard Spectrum for Tetrachloroethene



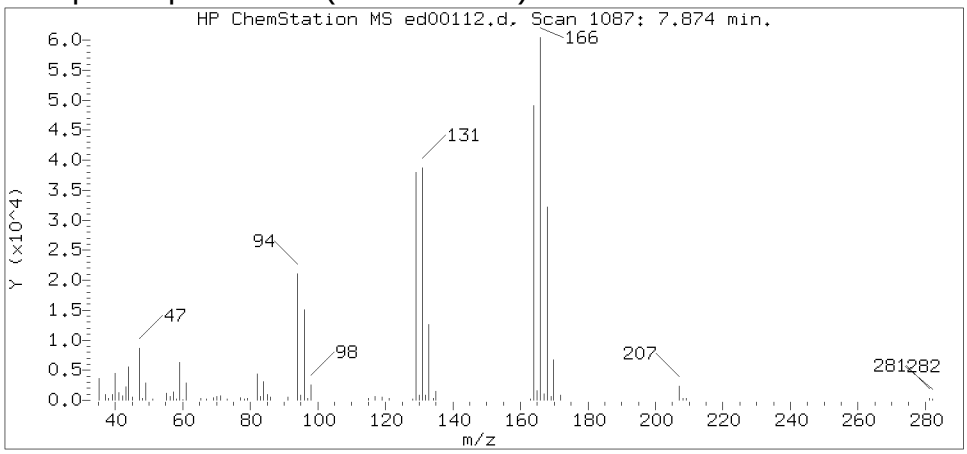


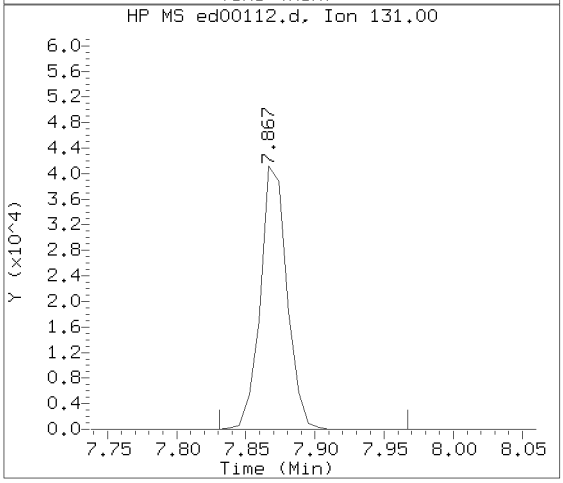
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00112.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:02 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:54 jeb07445

Sample Name: DKACA Lab Sample ID: 8906230

Compound Number : 67
Compound Name : Tetrachloroethene
Scan Number : 1087
Retention Time (minutes): 7.874
Relative Retention Time :-0.00000
Quant Ion : 166.00
Area (flag) : 85823
Concentration (ppb(v)) : 1.6388

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906231
Canister ID:	1522	Lab File ID:	ed00113.d
Pressure Received:	24.1 psia	Date Collected:	03/22/2017
Final Pressure:	12.0 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	02:46
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	3.8	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	2.4	J
109-66-0	Pentane	0.73	J
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	31	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	6.2	
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906231
Canister ID:	1522	Lab File ID:	ed00113.d
Pressure Received:	24.1 psia	Date Collected:	03/22/2017
Final Pressure:	12.0 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	02:46
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	1.4	J
111-65-9	Octane	1.1	J
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	12	
591-78-6	2-Hexanone	2.0	U
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906231
Canister ID:	1522	Lab File ID:	ed00113.d
Pressure Received:	24.1 psia	Date Collected:	03/22/2017
Final Pressure:	12.0 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	02:46
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

DKCPS

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906231

Data file: /chem/HP22820.i/17apr06.b/ed00113.d Injection date and time: **07-APR-2017 02:46**
Data file Sample Info. Line: 8906231;400;E1709630AA;DKCPS;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 24.1 psia Canister Pressure before dilution (Ya): 12.0 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	196703 (-11)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	758872 (-9)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	746698 (-8)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	38265	0.773	0.77		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.766(0.000)	101	23176	0.435	0.43		J	0.2	1
13) Pentane	(1)	2.867(0.000)	43	6927	0.249	0.25		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.540(-0.000)	43	287515	12.872	12.87			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	21366	2.090	2.09			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	7.466(0.000)	91	32787	0.364	0.36		J	0.2	1
62) Octane	(3)	7.523(-0.000)	43	10577	0.239	0.24		J	0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	7.874(0.000)	166	93133	1.755	1.76			0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00113.d Injection date and time: **07-APR-2017 02:46**
Data file Sample Info. Line: 8906231;400;E1709630AA;DKCPS;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

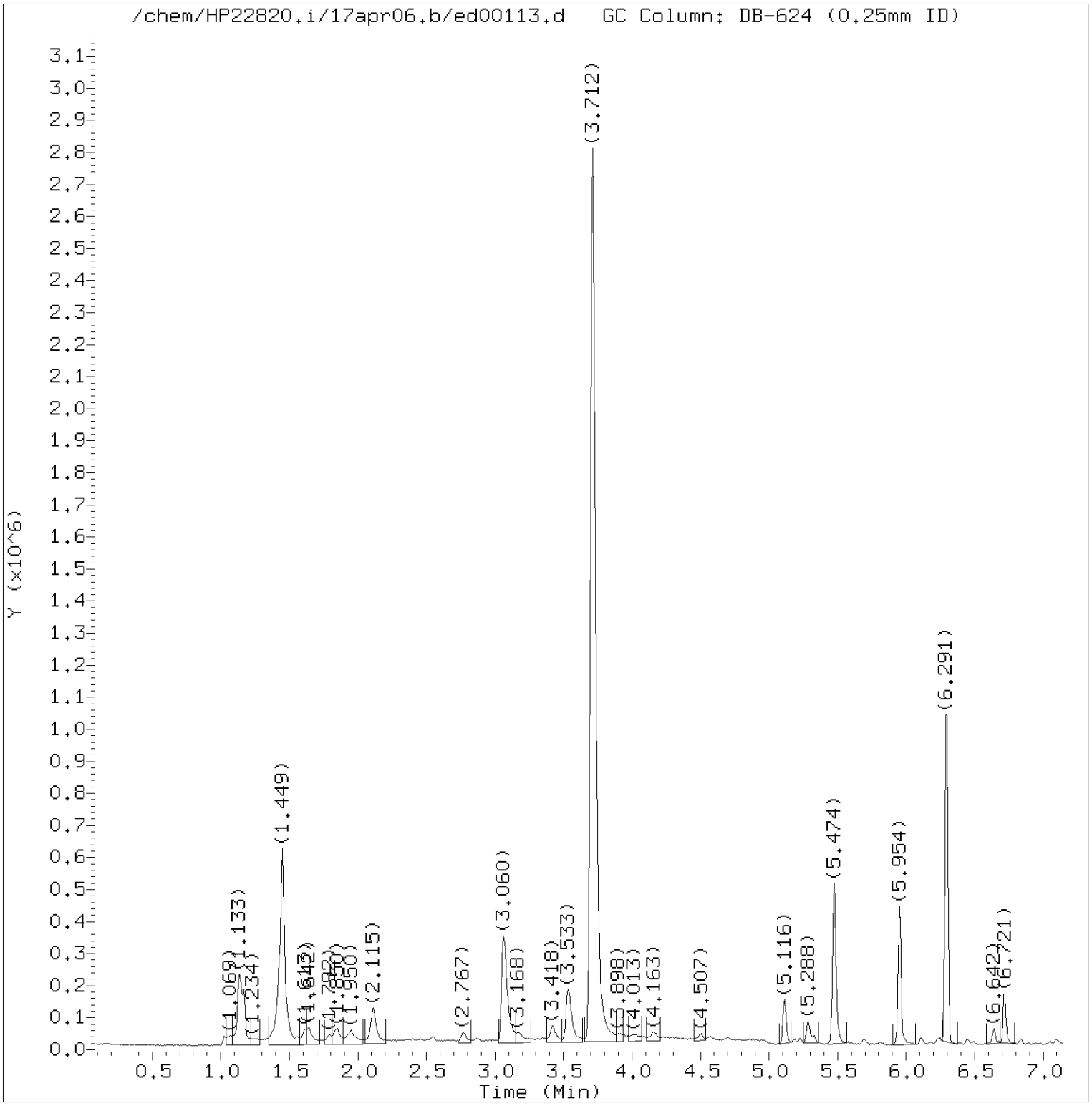
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 24.1 psia Canister Pressure before dilution (Ya): 12.0 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.2	1

Total number of targets = 62

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Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

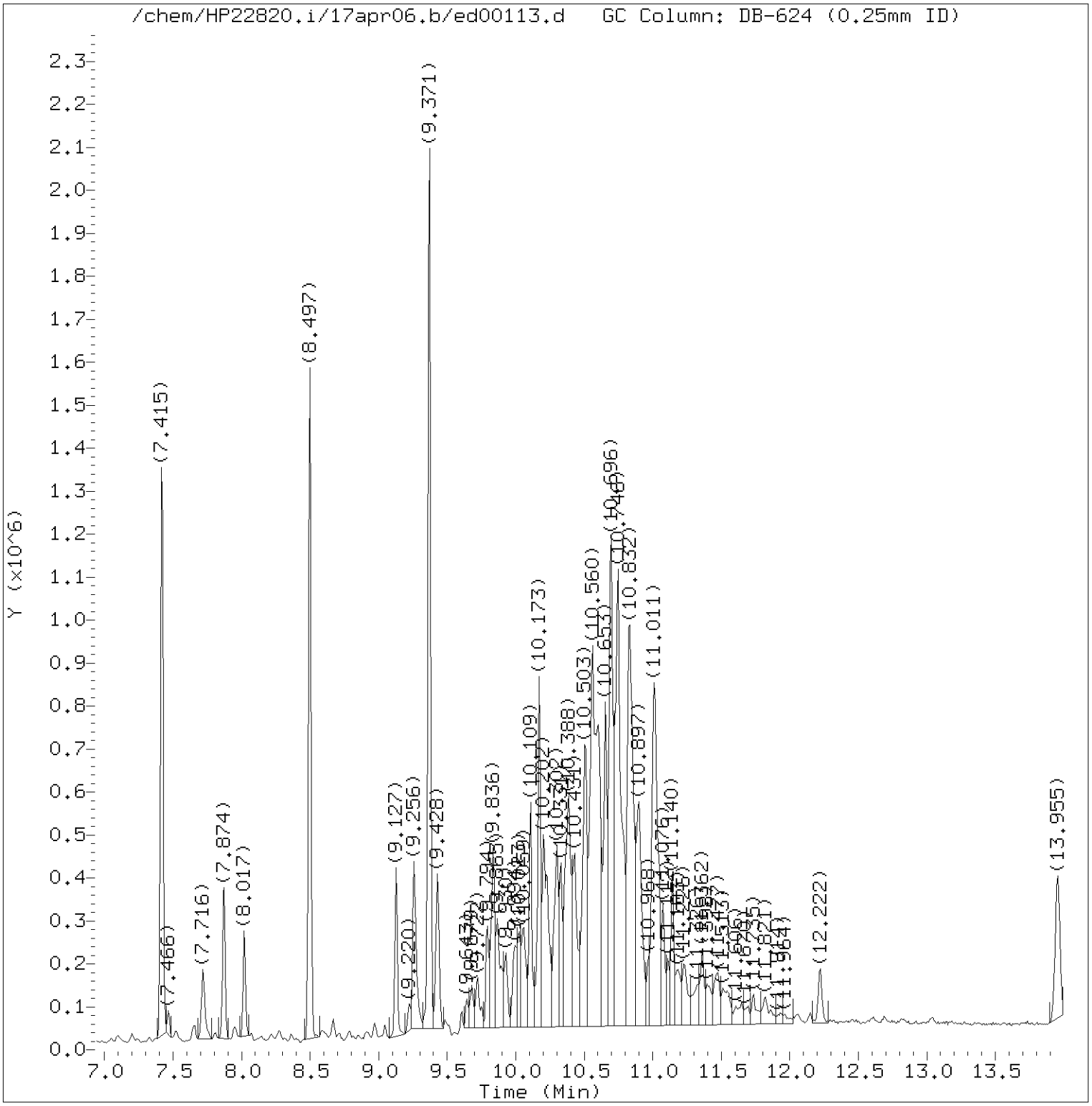
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

Sample Name: DKCPS Lab Sample ID: 8906231

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

Sample Name: DKCPS Lab Sample ID: 8906231

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

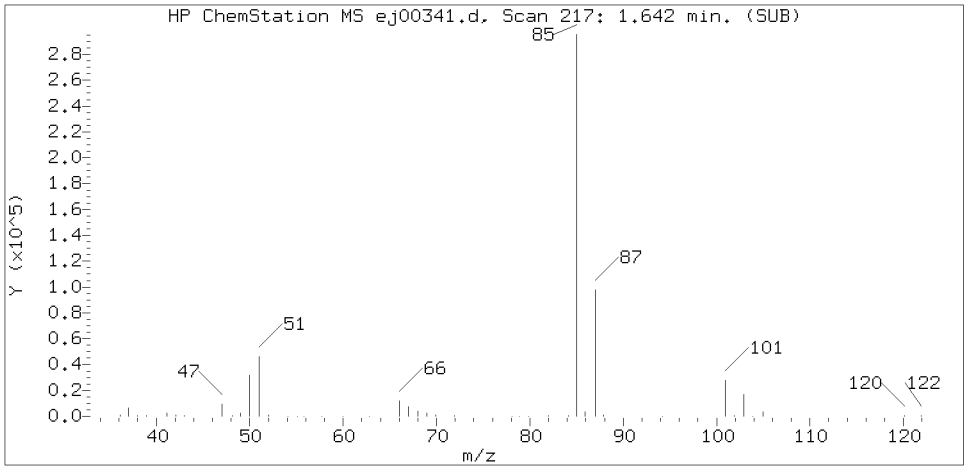
Sample Name: DKCPS Lab Sample ID: 8906231

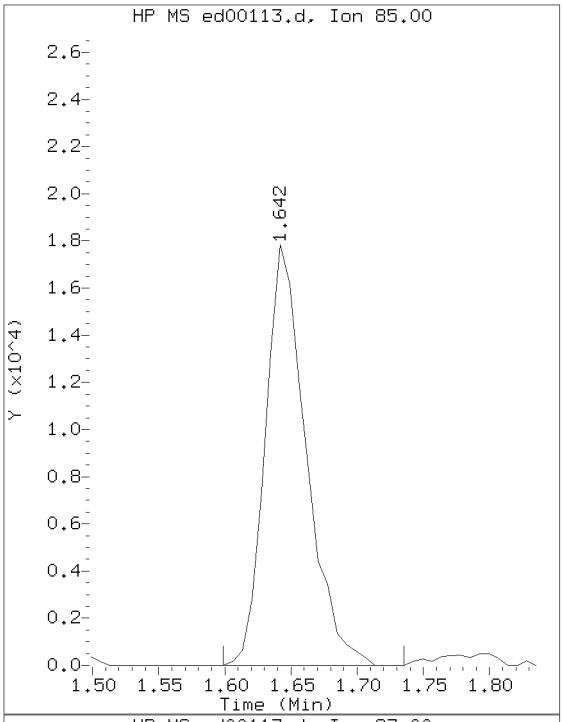
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.642	85	38265	0.773
12) Trichlorofluoromethane	(1)	2.767	101	23176	0.435
13) Pentane	(1)	2.867	43	6927	0.249
19) Acetone	(1)	3.540	43	287515	12.872
37) 2-Butanone	(1)	5.281	72	21366	2.090
40)*Bromochloromethane	(1)	5.474	130	196703	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	758872	10.000
61) Toluene	(3)	7.466	91	32787	0.364
62) Octane	(3)	7.523	43	10577	0.239
67) Tetrachloroethene	(3)	7.874	166	93133	1.755
71)*Chlorobenzene-d5	(3)	8.497	117	746698	10.000

* = Compound is an internal standard.

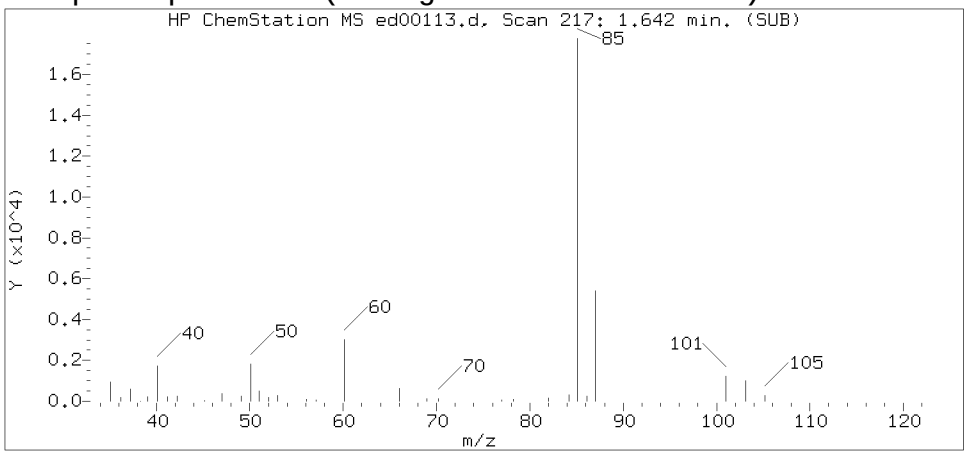
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

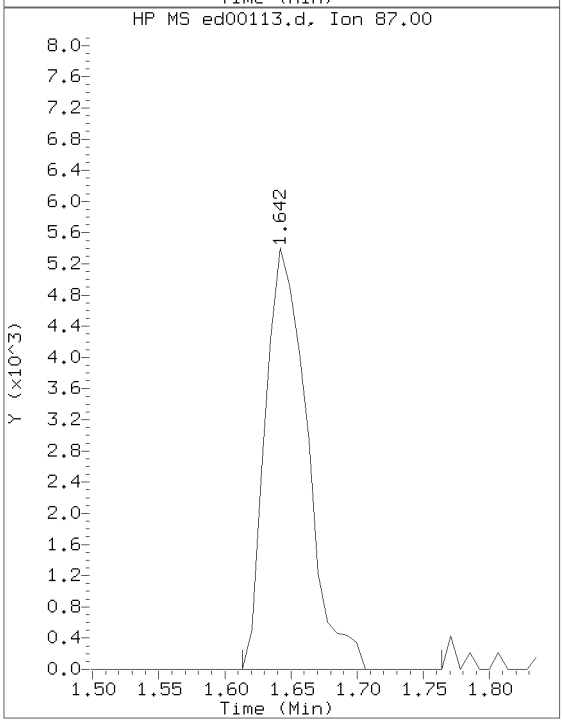
Reference Standard Spectrum for Dichlorodifluoromethane



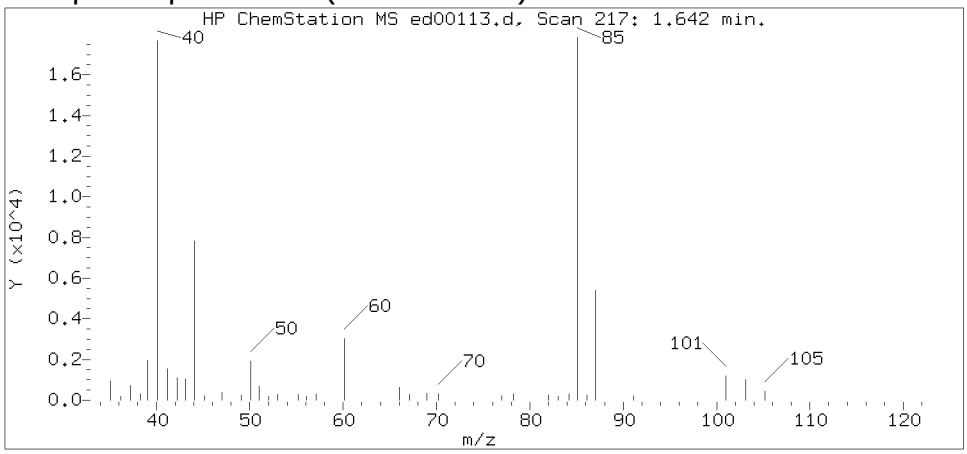


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

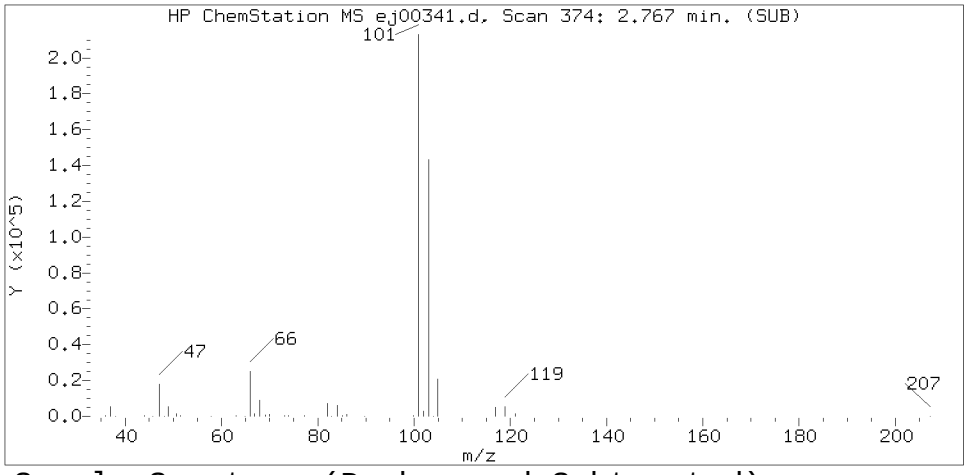
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

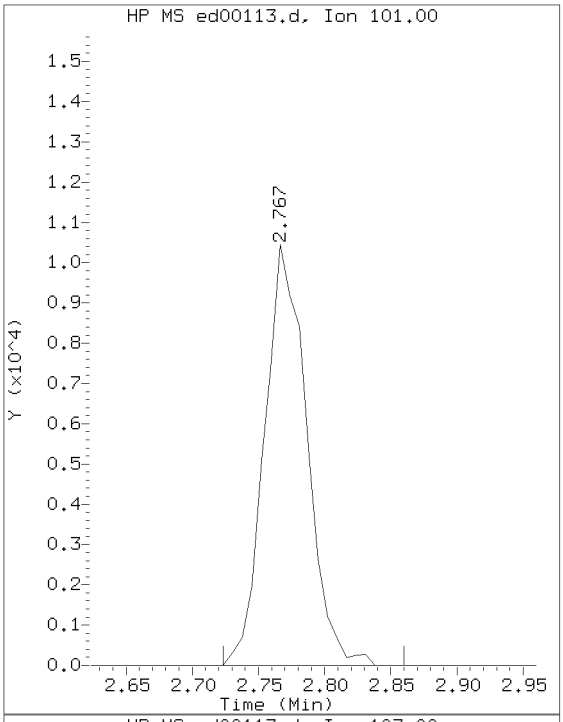
Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number	: 2
Compound Name	: Dichlorodifluoromethane
Scan Number	: 217
Retention Time (minutes)	: 1.642
Relative Retention Time	: 0.00040
Quant Ion	: 85.00
Area (flag)	: 38265
Concentration (ppb(v))	: 0.7726

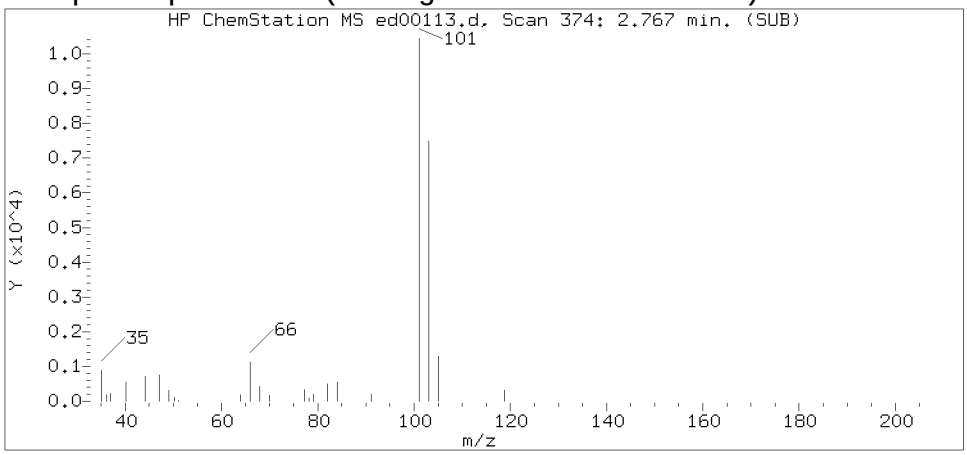
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

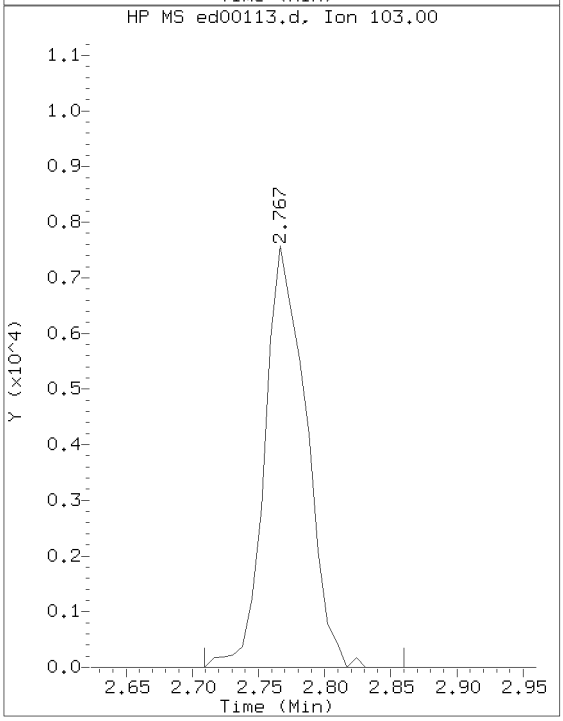
Reference Standard Spectrum for Trichlorofluoromethane



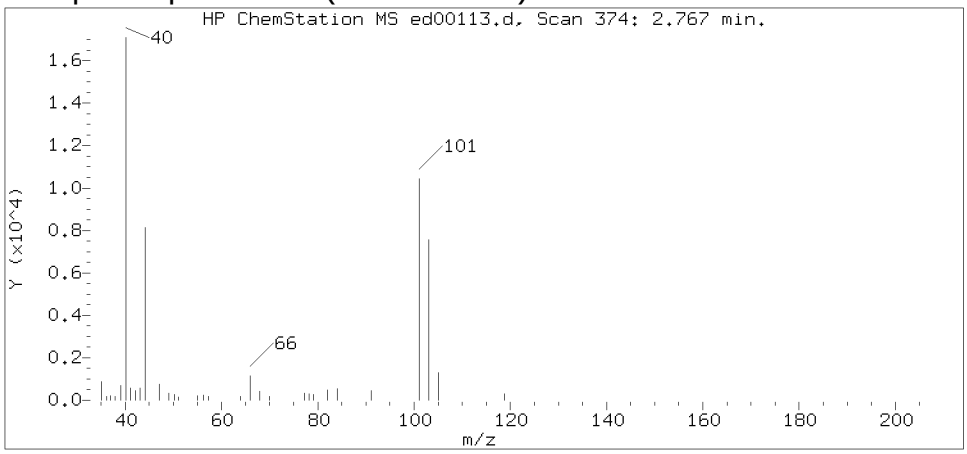


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

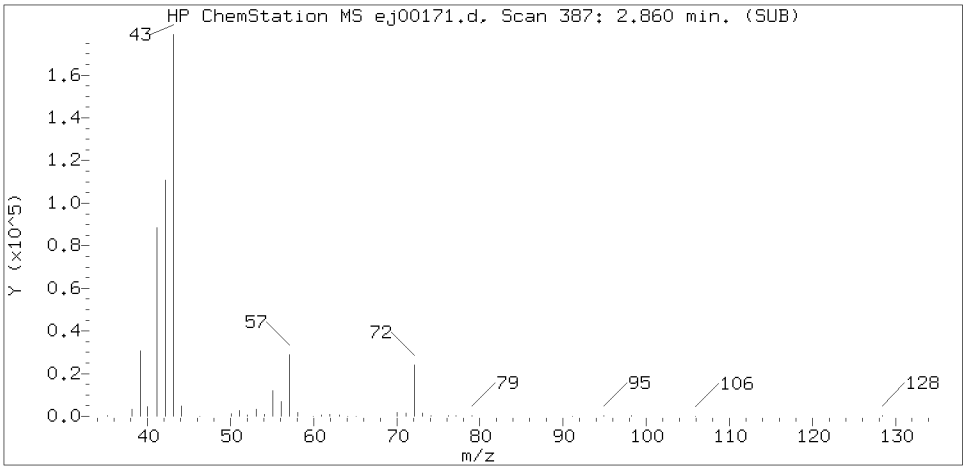
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

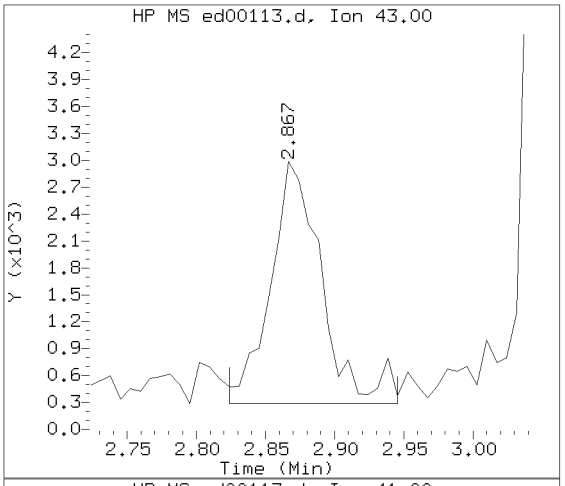
Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 374
Retention Time (minutes): 2.767
Relative Retention Time : 0.00067
Quant Ion : 101.00
Area (flag) : 23176
Concentration (ppb(v)) : 0.4349

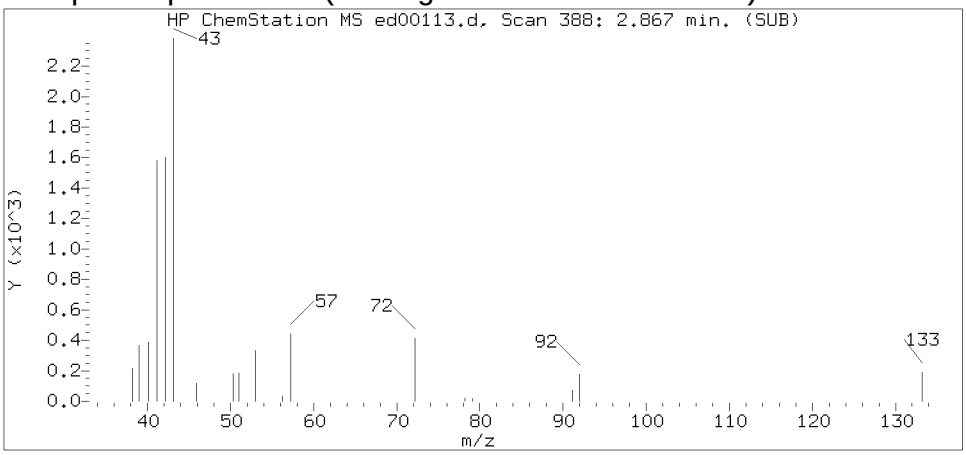
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

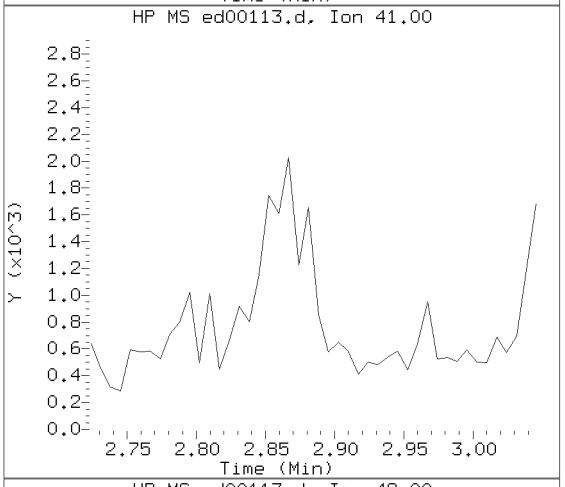
Reference Standard Spectrum for Pentane



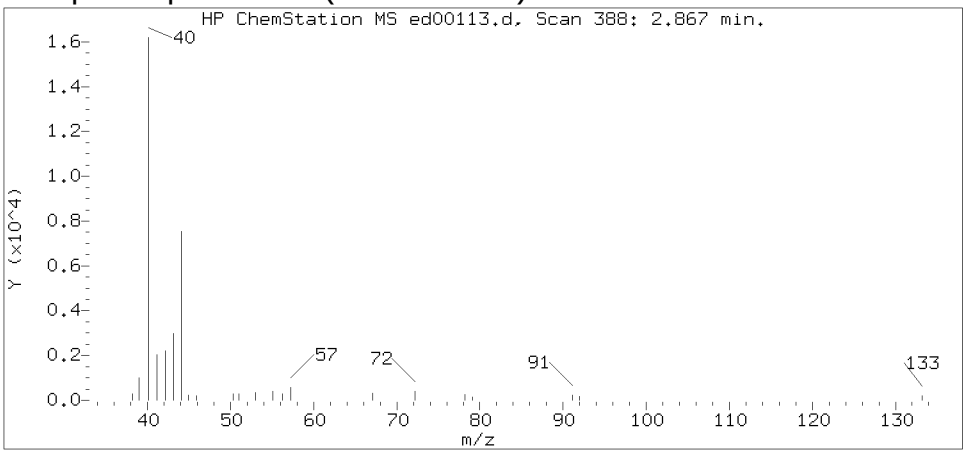


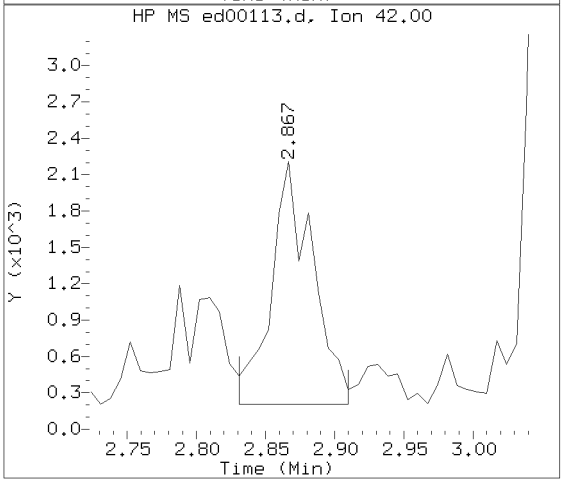
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

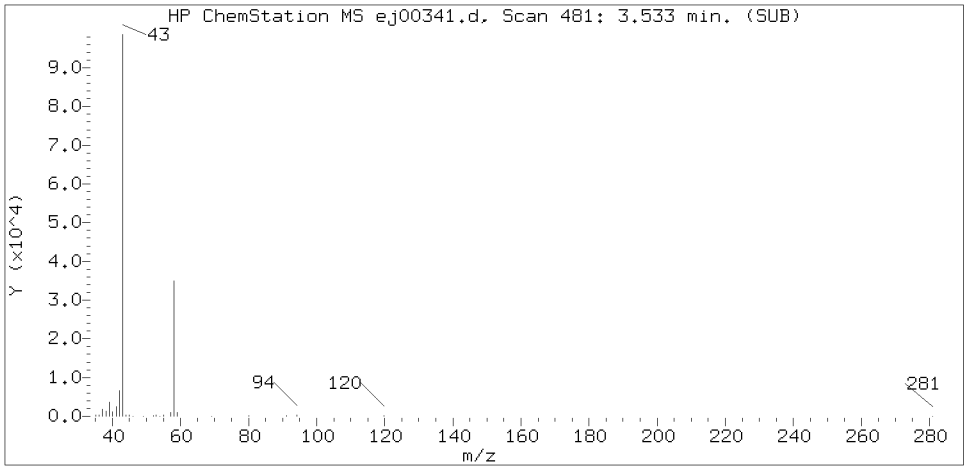
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

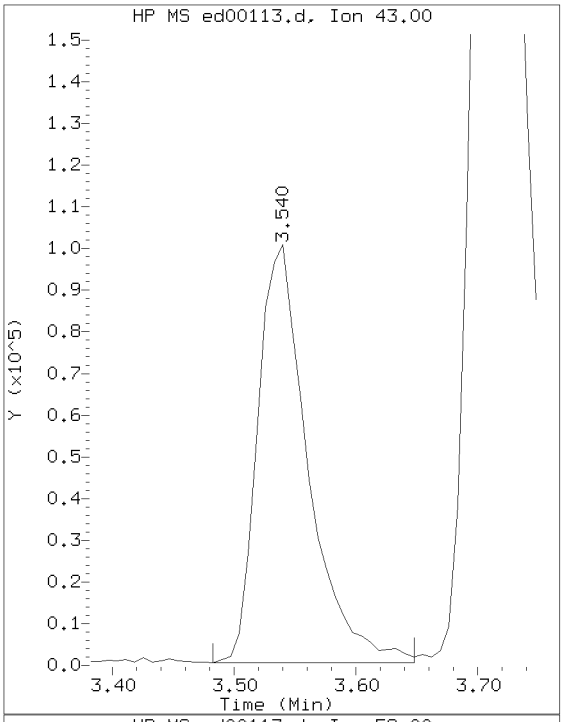
Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number : 13
Compound Name : Pentane
Scan Number : 388
Retention Time (minutes): 2.867
Relative Retention Time : 0.00069
Quant Ion : 43.00
Area (flag) : 6927
Concentration (ppb(v)) : 0.2486

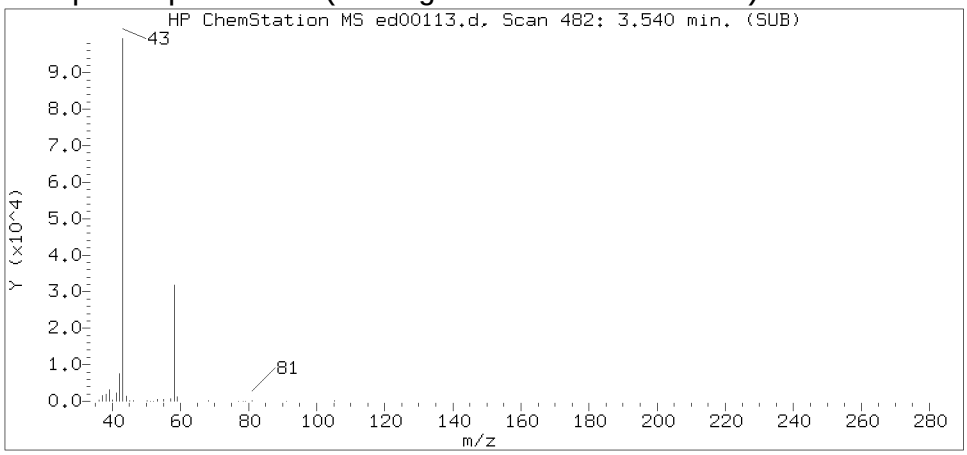
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

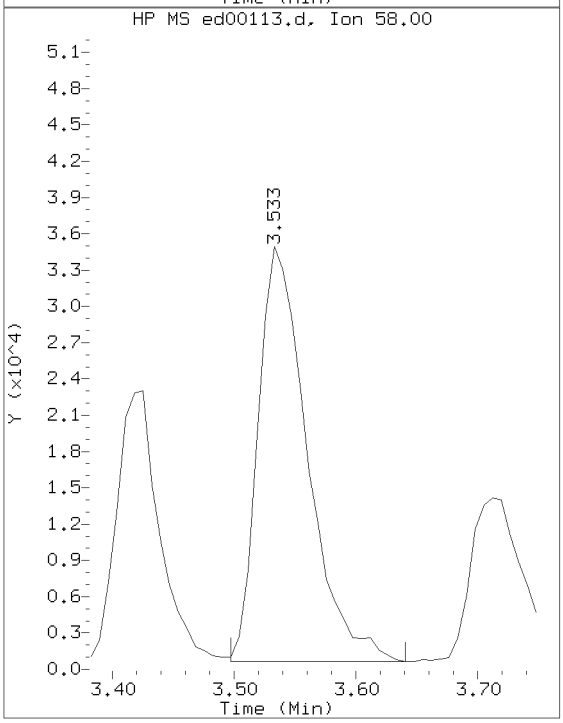
Reference Standard Spectrum for Acetone



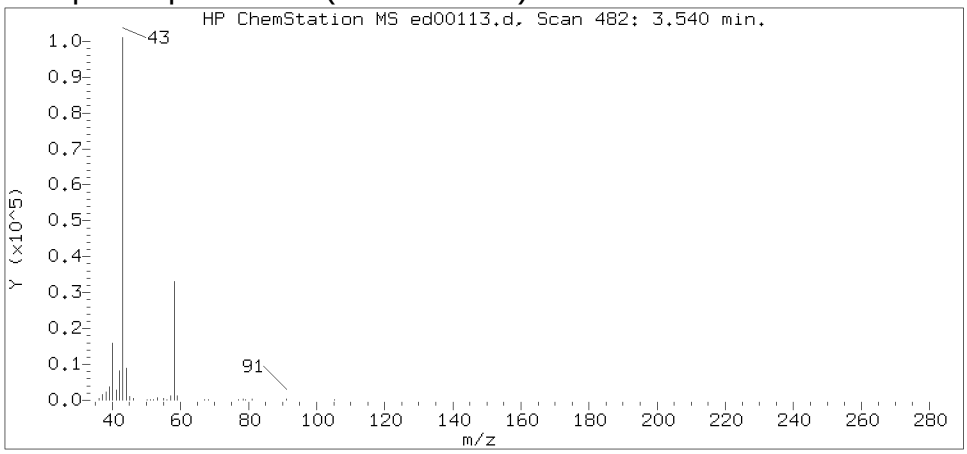


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

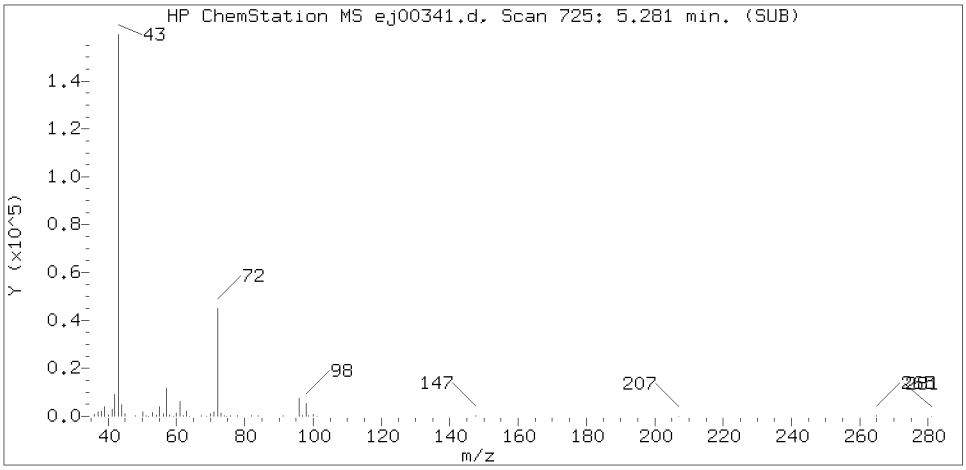
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

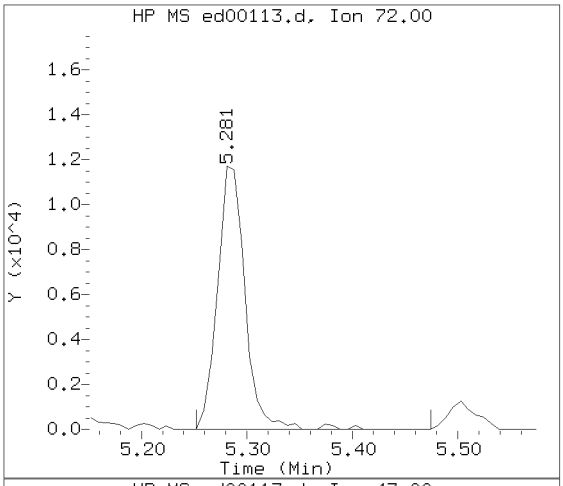
Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number : 19
Compound Name : Acetone
Scan Number : 482
Retention Time (minutes): 3.540
Relative Retention Time :-0.00046
Quant Ion : 43.00
Area (flag) : 287515
Concentration (ppb(v)) : 12.8722

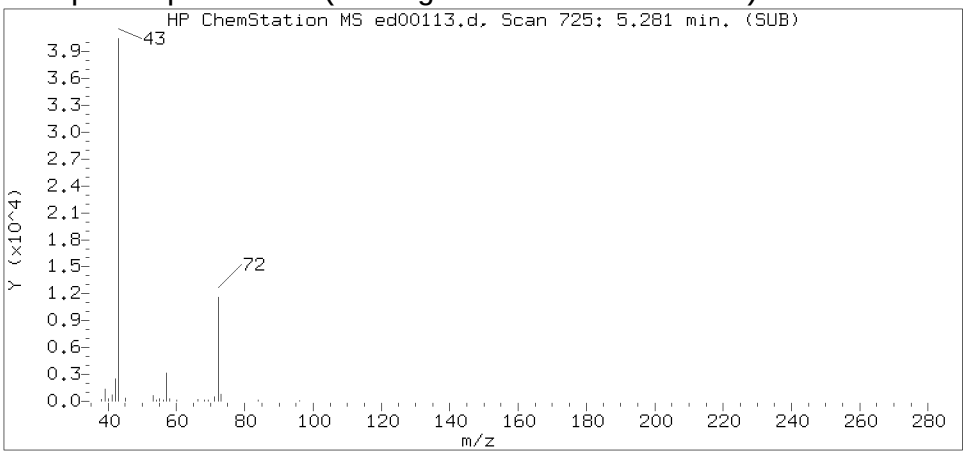
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

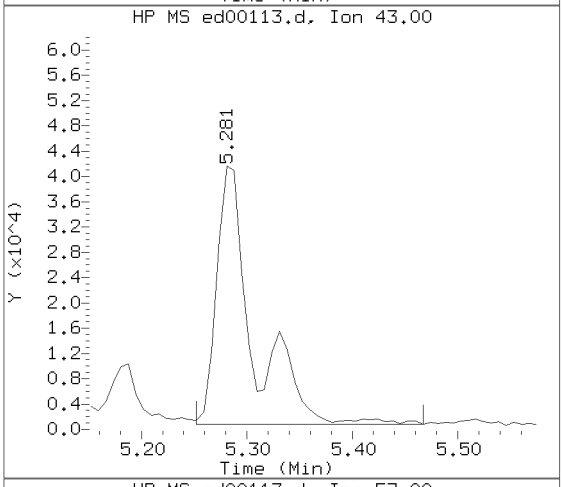
Reference Standard Spectrum for 2-Butanone



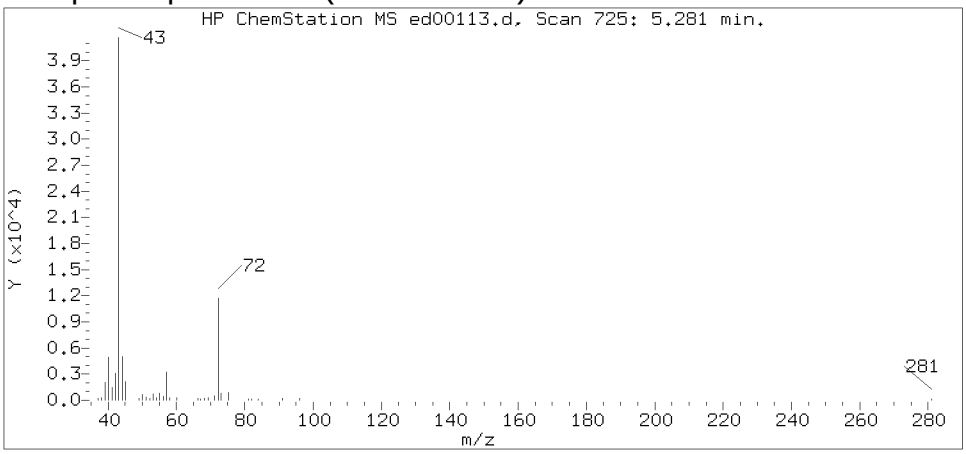


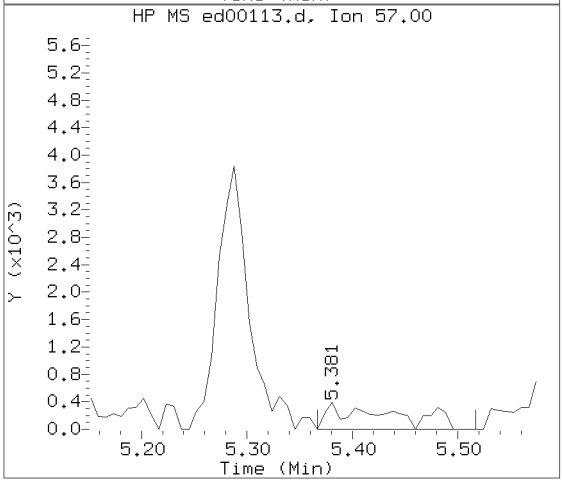
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

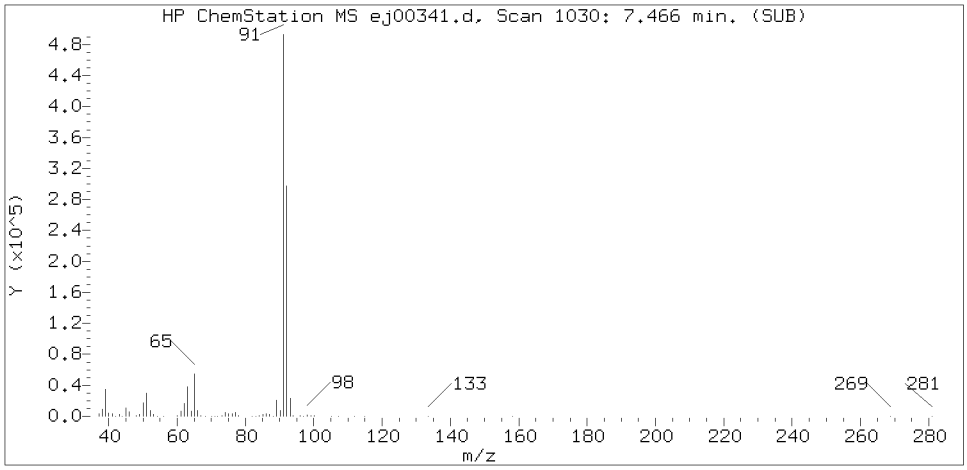
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

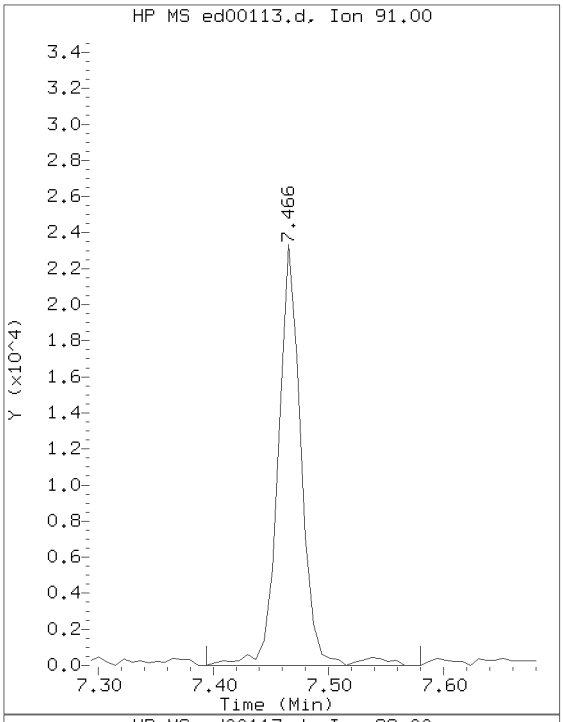
Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00126
Quant Ion : 72.00
Area (flag) : 21366
Concentration (ppb(v)) : 2.0896

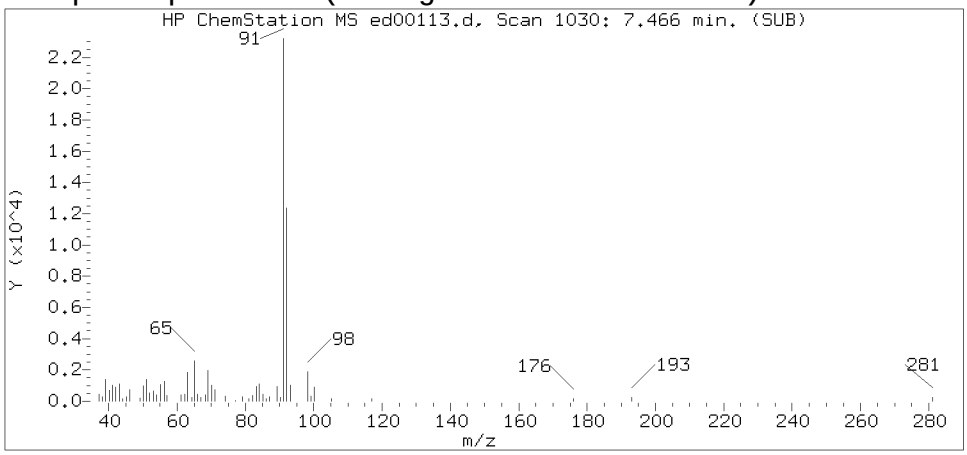
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

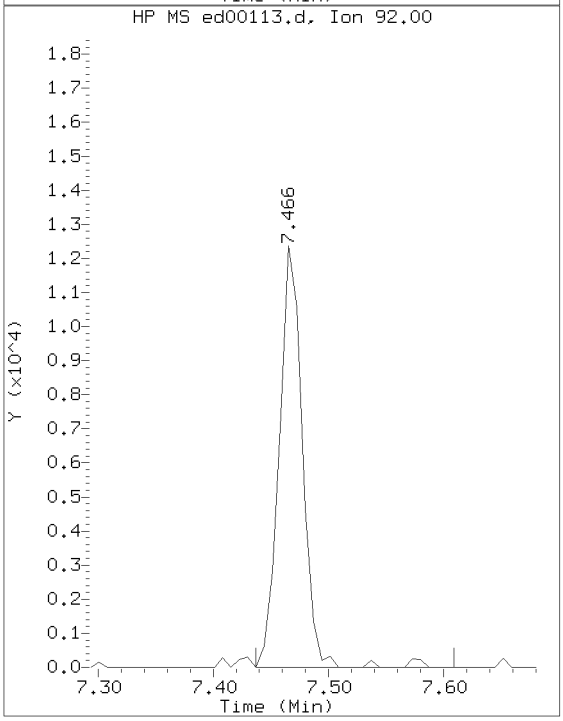
Reference Standard Spectrum for Toluene



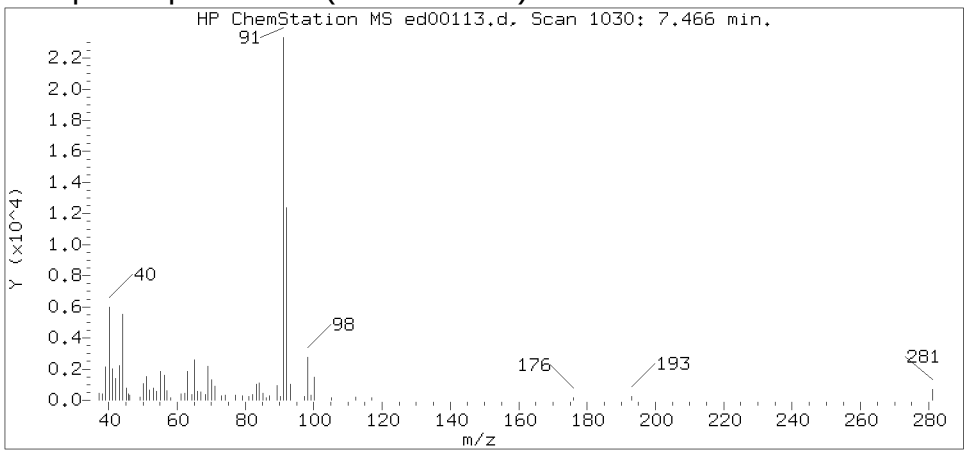


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

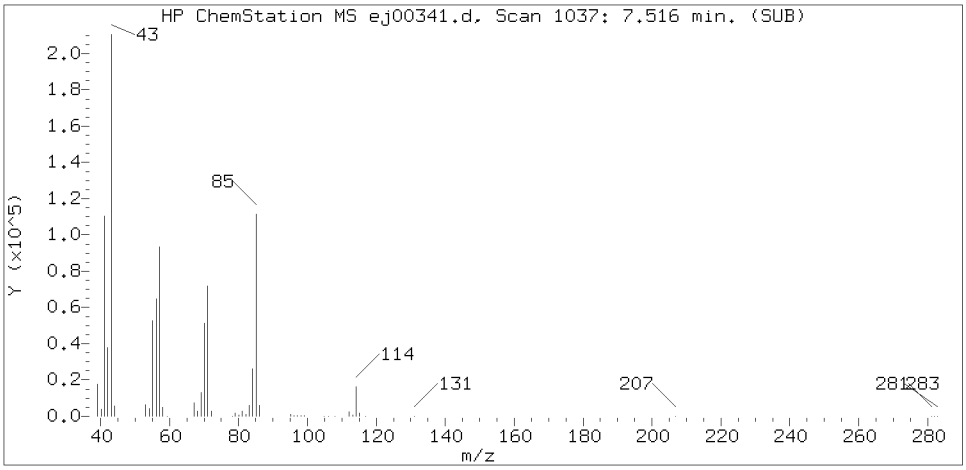
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

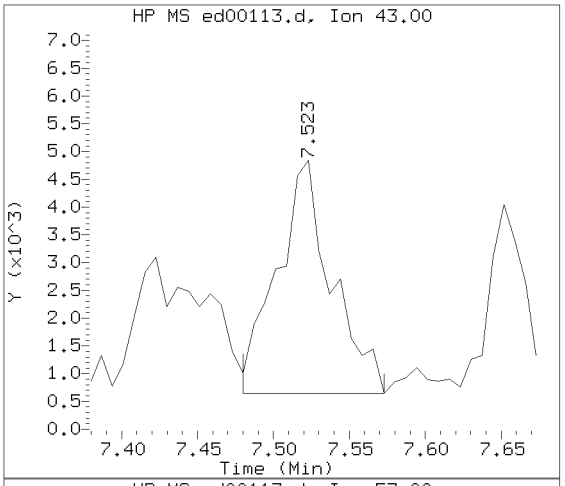
Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number	: 61
Compound Name	: Toluene
Scan Number	: 1030
Retention Time (minutes)	: 7.466
Relative Retention Time	: 0.00000
Quant Ion	: 91.00
Area (flag)	: 32787
Concentration (ppb(v))	: 0.3638

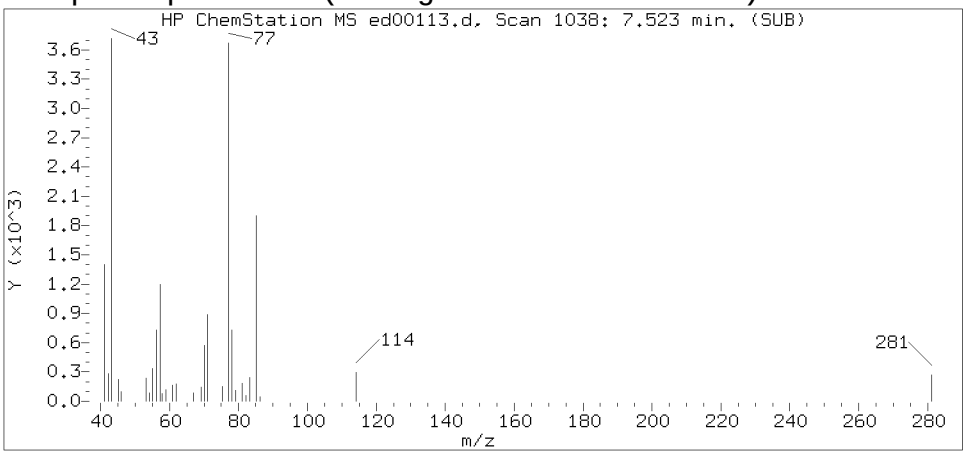
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

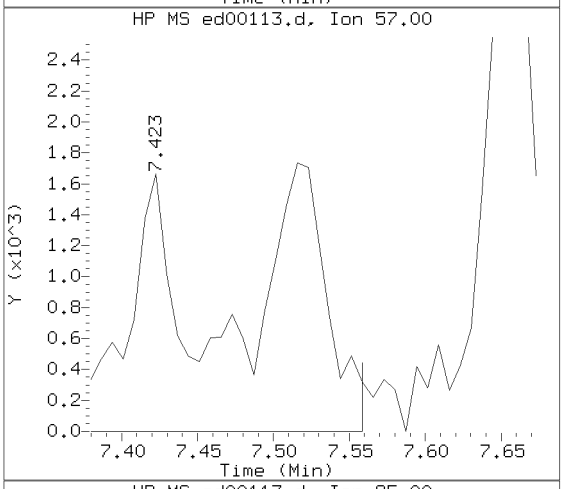
Reference Standard Spectrum for Octane



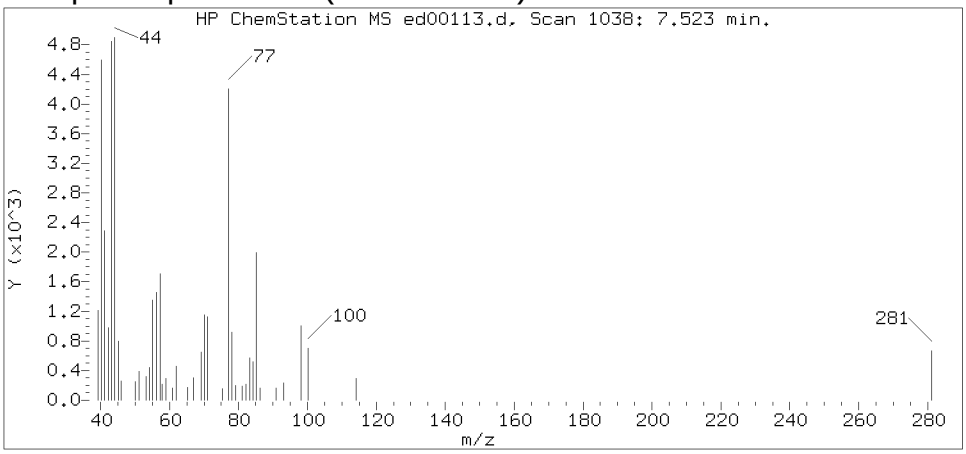


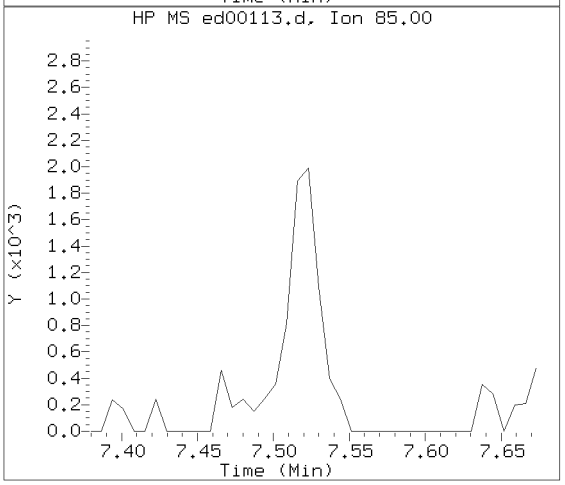
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

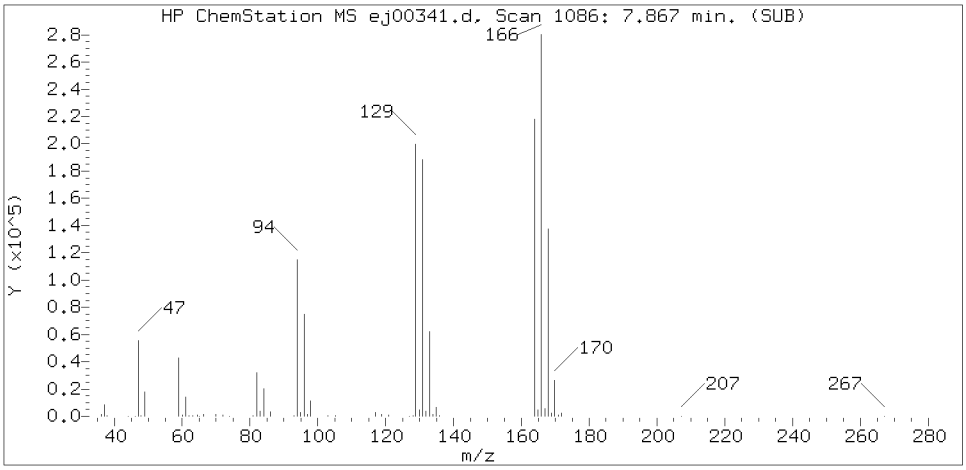
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

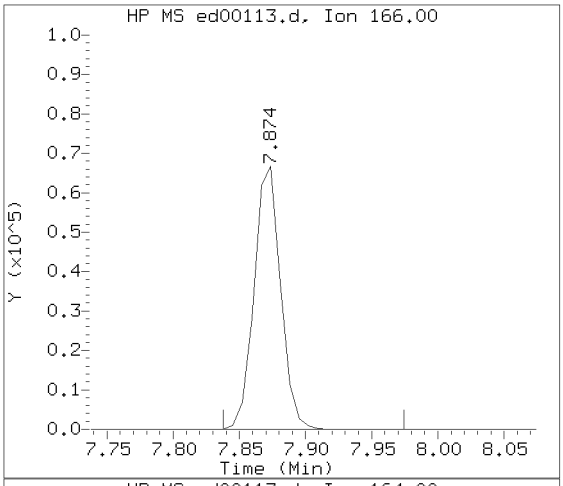
Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number : 62
Compound Name : Octane
Scan Number : 1038
Retention Time (minutes): 7.523
Relative Retention Time :-0.00084
Quant Ion : 43.00
Area (flag) : 10577
Concentration (ppb(v)) : 0.2390

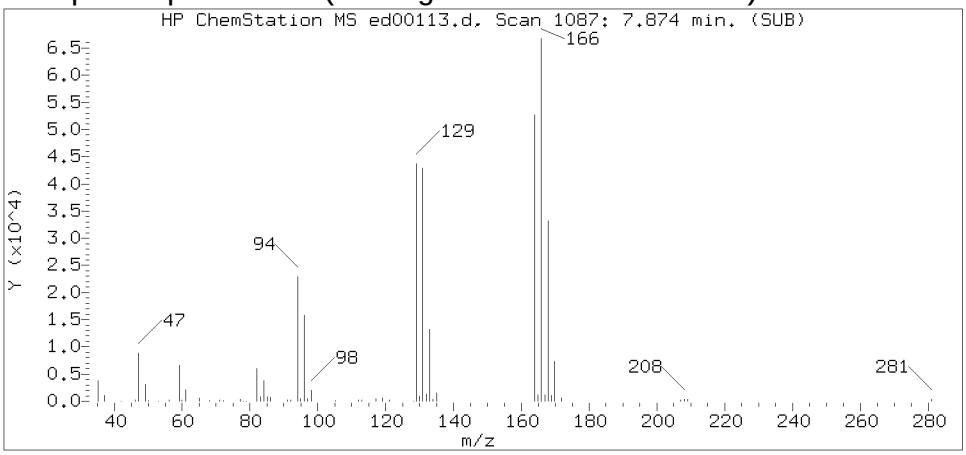
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

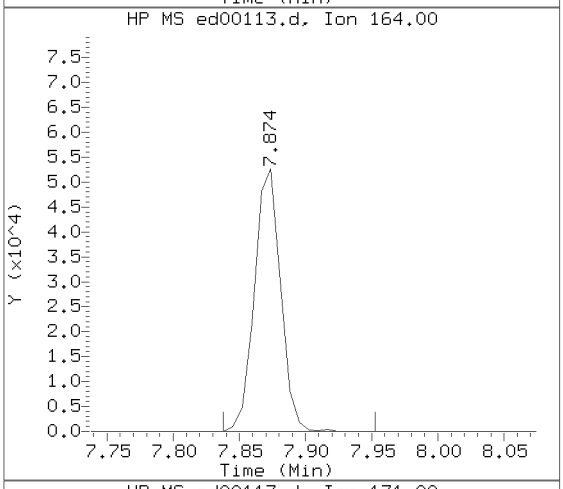
Reference Standard Spectrum for Tetrachloroethene



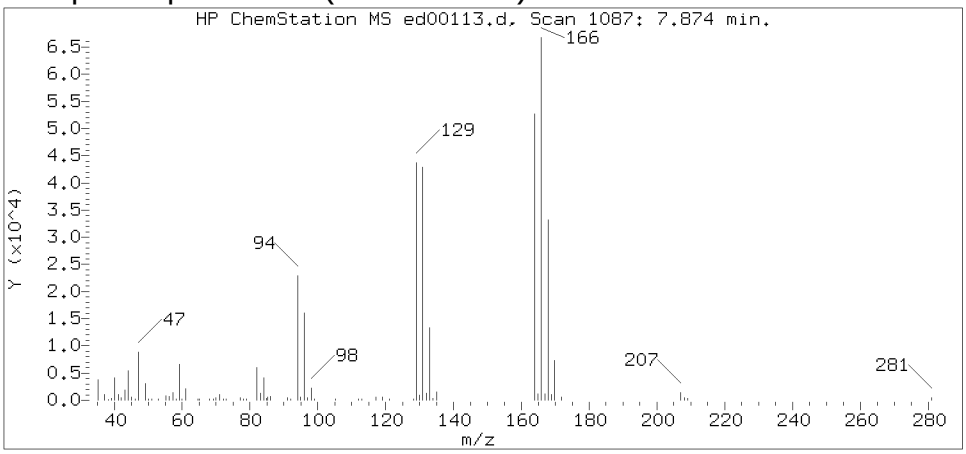


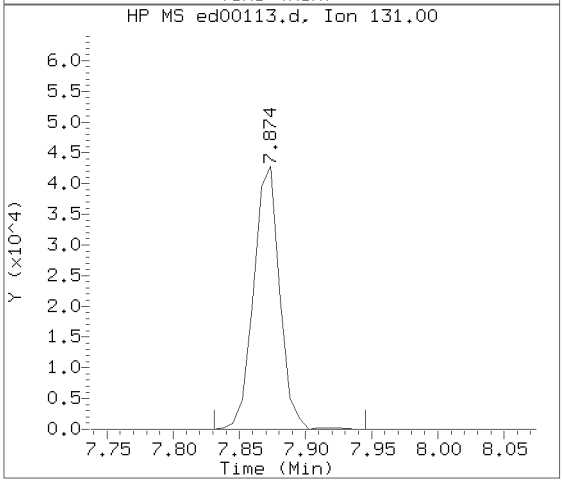
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00113.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 02:46 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:55 jeb07445

Sample Name: DKCPS Lab Sample ID: 8906231

Compound Number : 67
Compound Name : Tetrachloroethene
Scan Number : 1087
Retention Time (minutes): 7.874
Relative Retention Time : 0.00000
Quant Ion : 166.00
Area (flag) : 93133
Concentration (ppb(v)) : 1.7553

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906232
Canister ID:	1392	Lab File ID:	ed00114.d
Pressure Received:	25.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	03:30
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	4.1	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	2.8	J
109-66-0	Pentane	0.59	U
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	47	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	11	
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906232
Canister ID:	1392	Lab File ID:	ed00114.d
Pressure Received:	25.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	03:30
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	1.4	J
111-65-9	Octane	0.93	U
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	12	
591-78-6	2-Hexanone	2.3	J
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906232
Canister ID:	1392	Lab File ID:	ed00114.d
Pressure Received:	25.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	03:30
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8906232

Data file: /chem/HP22820.i/17apr06.b/ed00114.d Injection date and time: **07-APR-2017 03:30**
Data file Sample Info. Line: 8906232;400;E1709630AA;DKELA;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.7 psia Canister Pressure before dilution (Ya): 12.8 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	192343 (-13)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	752080 (-9)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	743521 (-9)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	40043	0.827	0.83		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.774(-0.000)	101	25745	0.494	0.49		J	0.2	1
13) Pentane	(1)			Not Detected					0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.533(0.000)	43	435571	19.943	19.94			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	35683	3.569	3.57			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	7.465(0.000)	91	33028	0.368	0.37		J	0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	7.874(0.000)	166	97325	1.842	1.84			0.2	1
68) 2-Hexanone	(3)	7.945(0.000)	43	20767	0.550	0.55		J	0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00114.d Injection date and time: **07-APR-2017 03:30**
Data file Sample Info. Line: 8906232;400;E1709630AA;DKELA;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

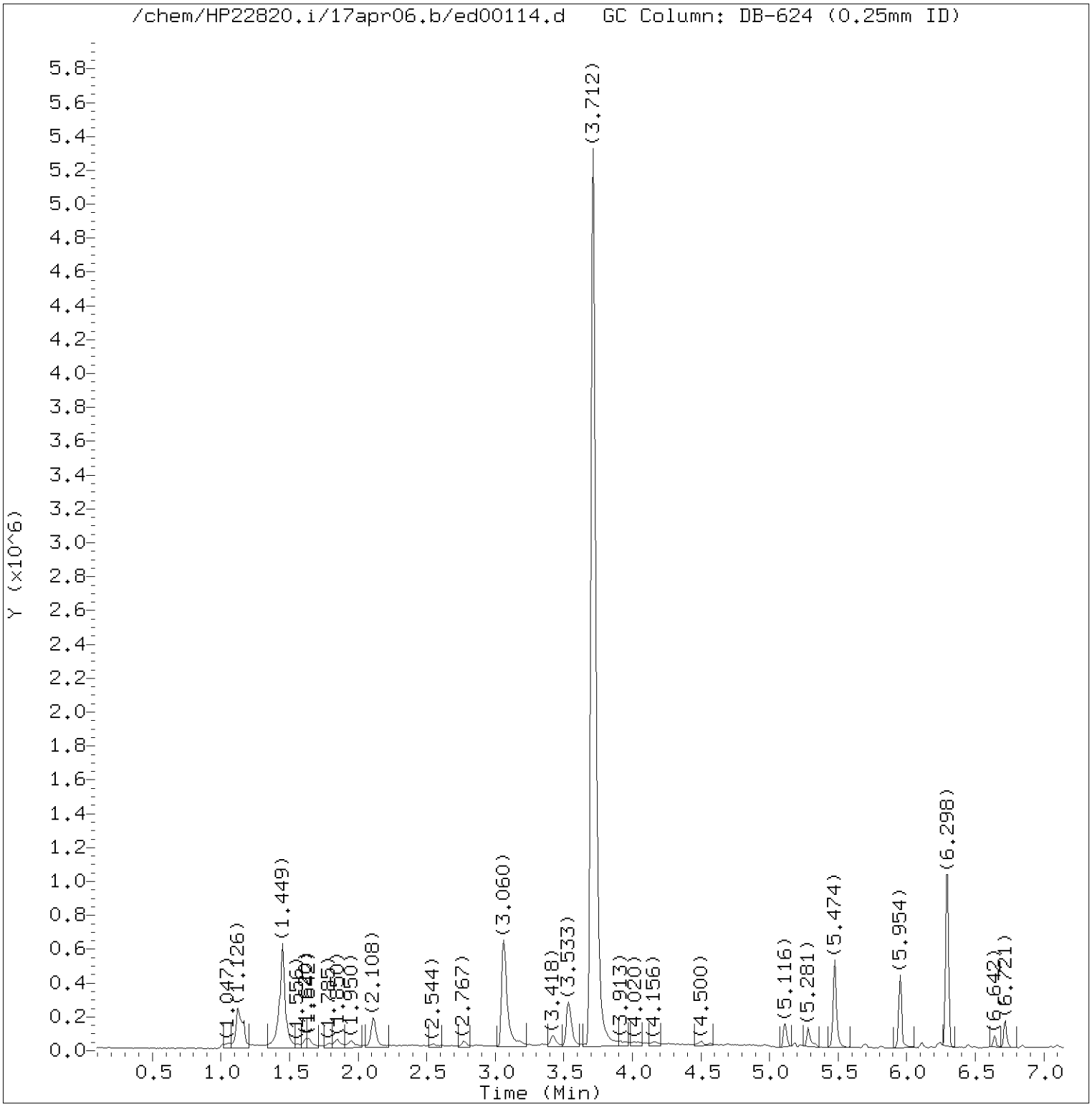
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.7 psia Canister Pressure before dilution (Ya): 12.8 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:10. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

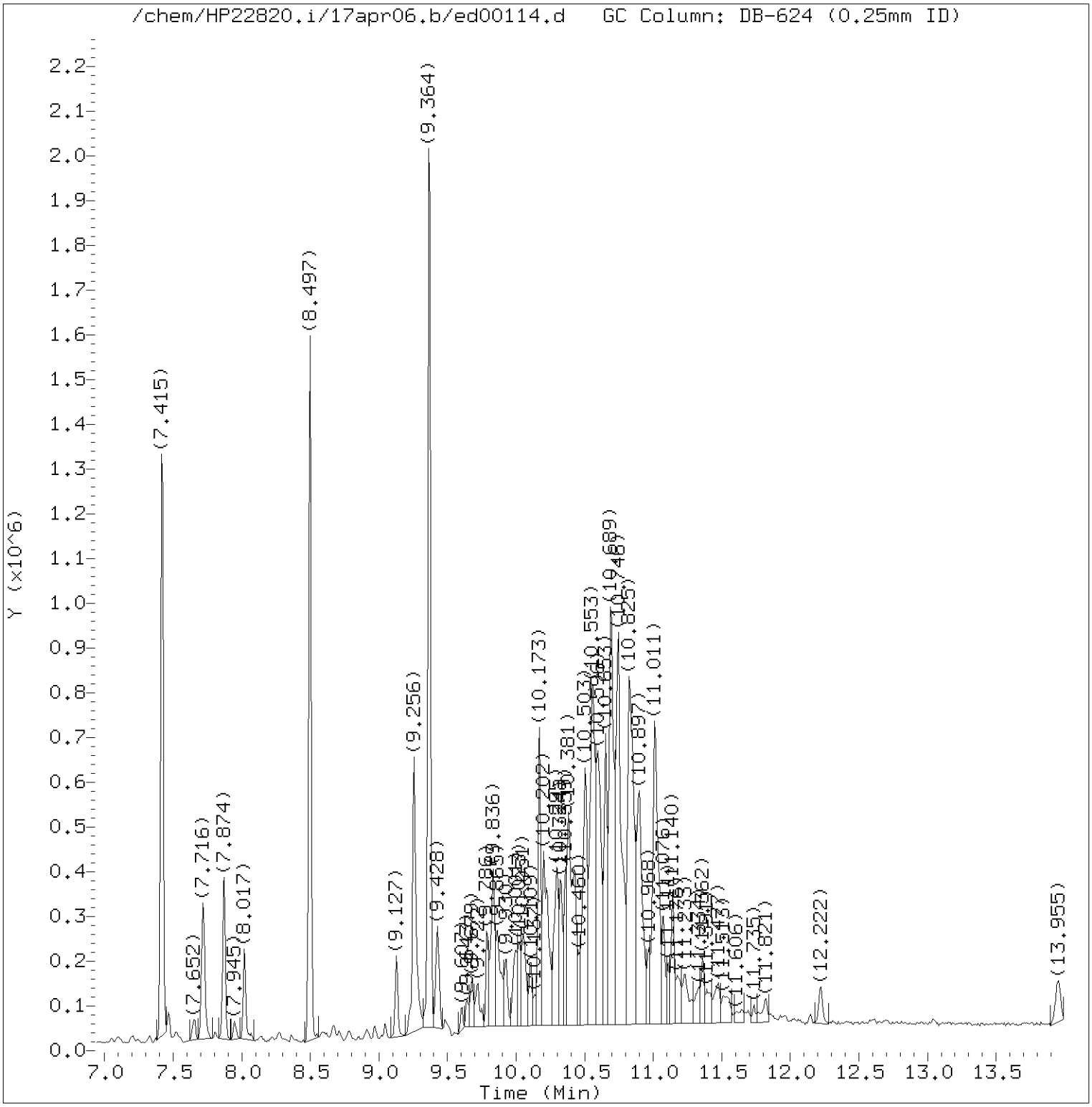
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

Sample Name: DKELA Lab Sample ID: 8906232

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

Sample Name: DKELA Lab Sample ID: 8906232

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

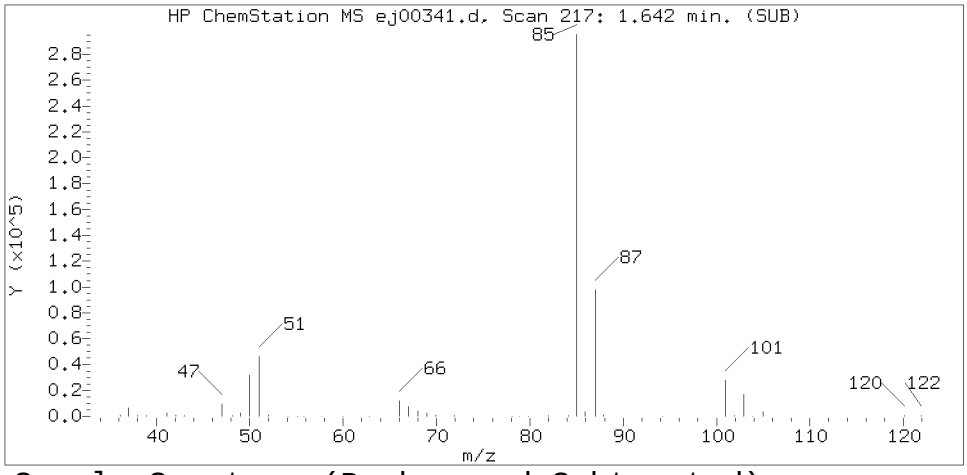
Sample Name: DKELA Lab Sample ID: 8906232

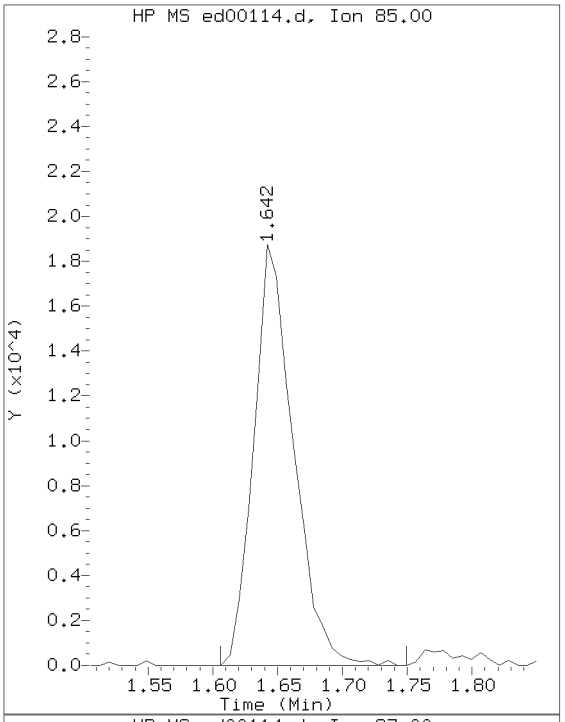
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.642	85	40043	0.827
12) Trichlorofluoromethane	(1)	2.774	101	25745	0.494
19) Acetone	(1)	3.533	43	435571	19.943
37) 2-Butanone	(1)	5.281	72	35683	3.569
40)*Bromochloromethane	(1)	5.474	130	192343	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	752080	10.000
61) Toluene	(3)	7.465	91	33028	0.368
67) Tetrachloroethene	(3)	7.874	166	97325	1.842
68) 2-Hexanone	(3)	7.945	43	20767	0.550
71)*Chlorobenzene-d5	(3)	8.497	117	743521	10.000

* = Compound is an internal standard.

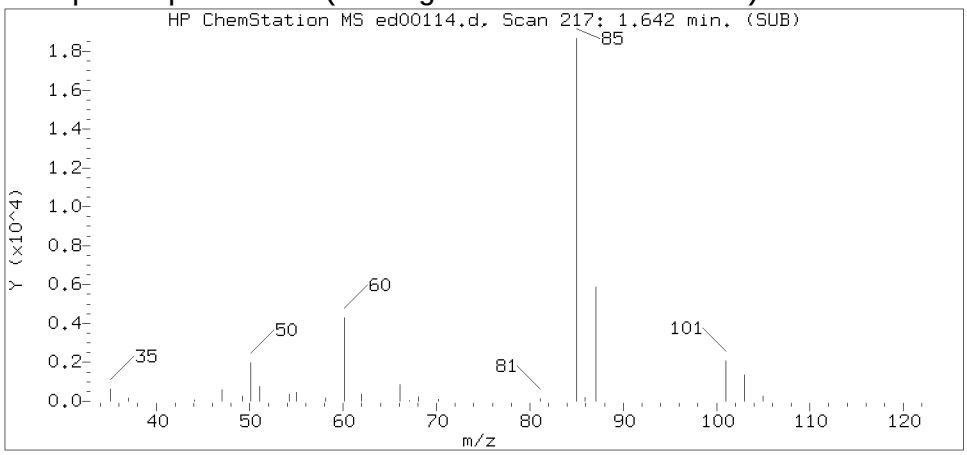
Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

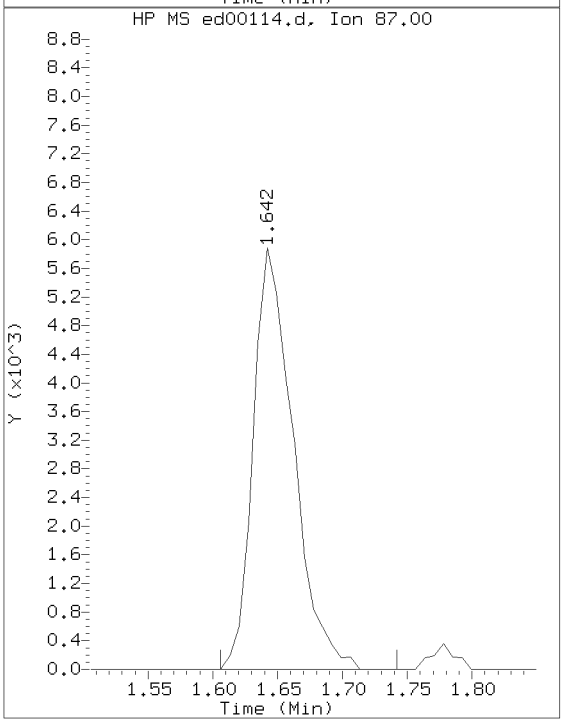
Reference Standard Spectrum for Dichlorodifluoromethane



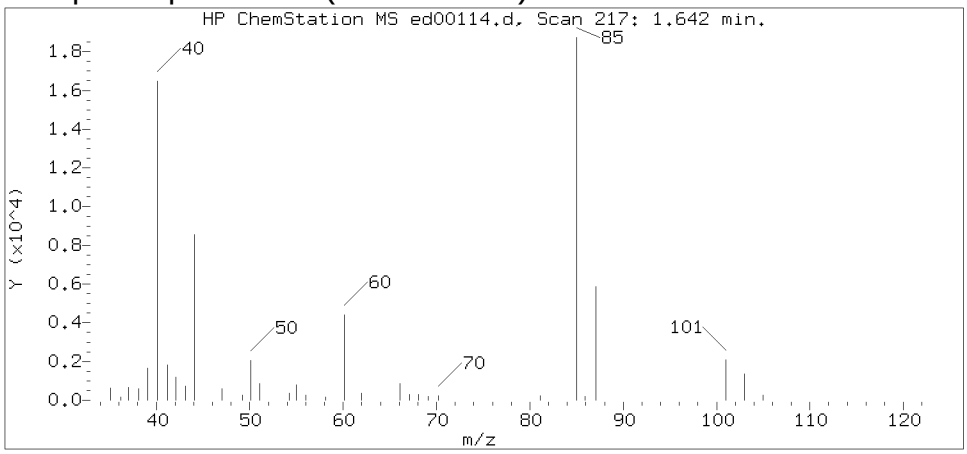


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

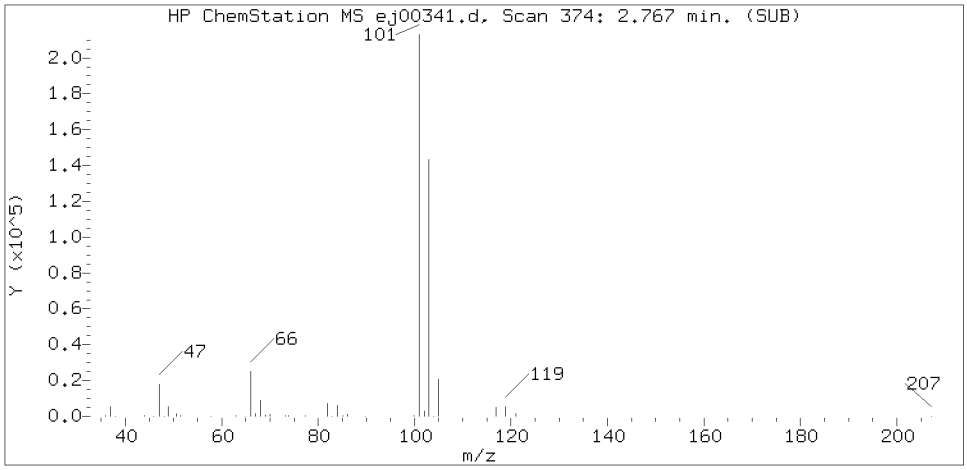
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

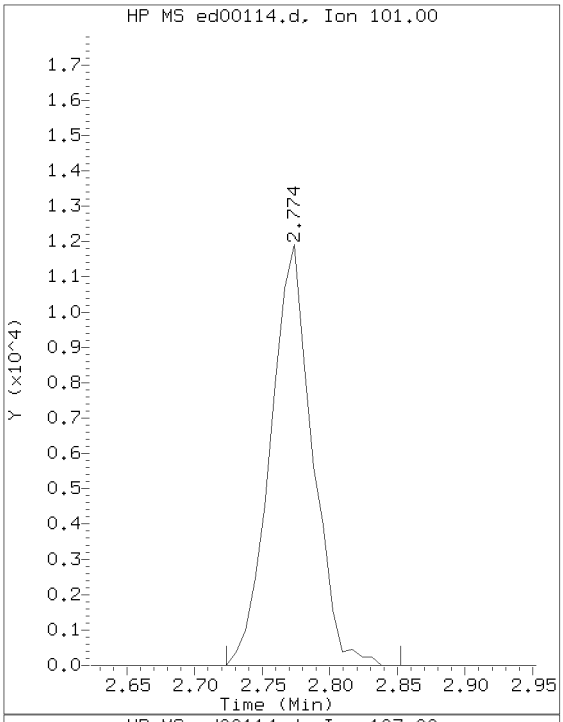
Sample Name: DKELA Lab Sample ID: 8906232

Compound Number	: 2
Compound Name	: Dichlorodifluoromethane
Scan Number	: 217
Retention Time (minutes)	: 1.642
Relative Retention Time	: 0.00041
Quant Ion	: 85.00
Area (flag)	: 40043
Concentration (ppb(v))	: 0.8268

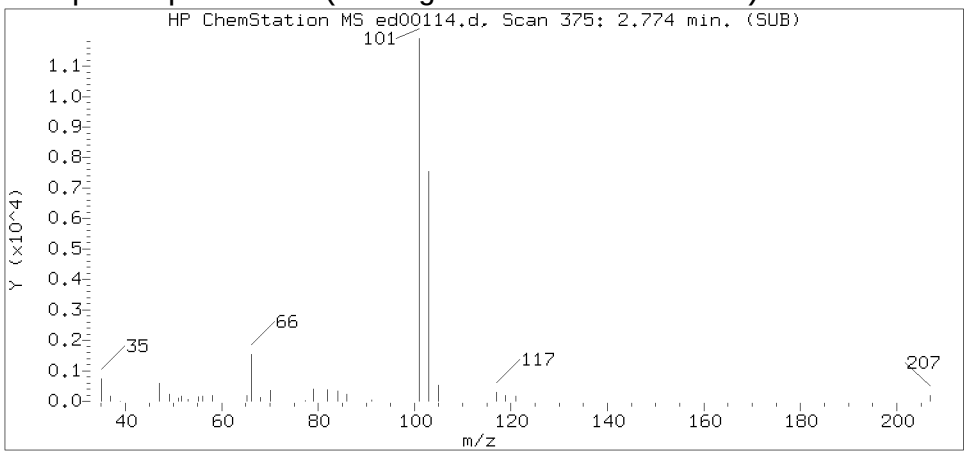
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

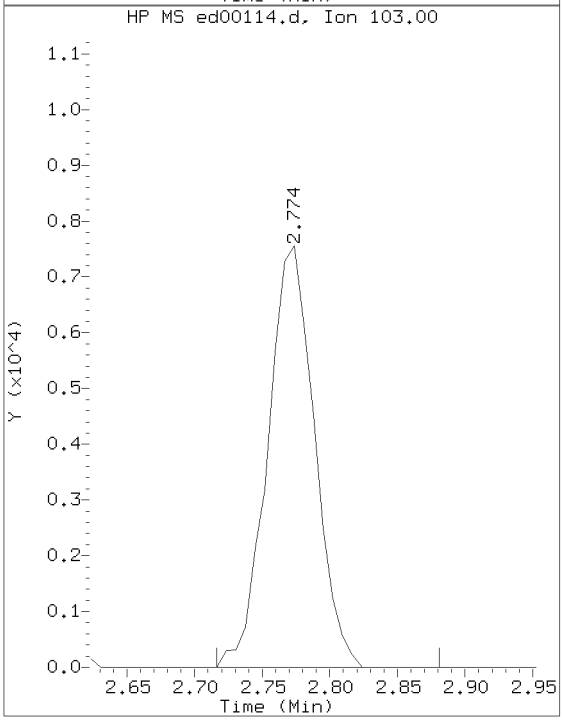
Reference Standard Spectrum for Trichlorofluoromethane



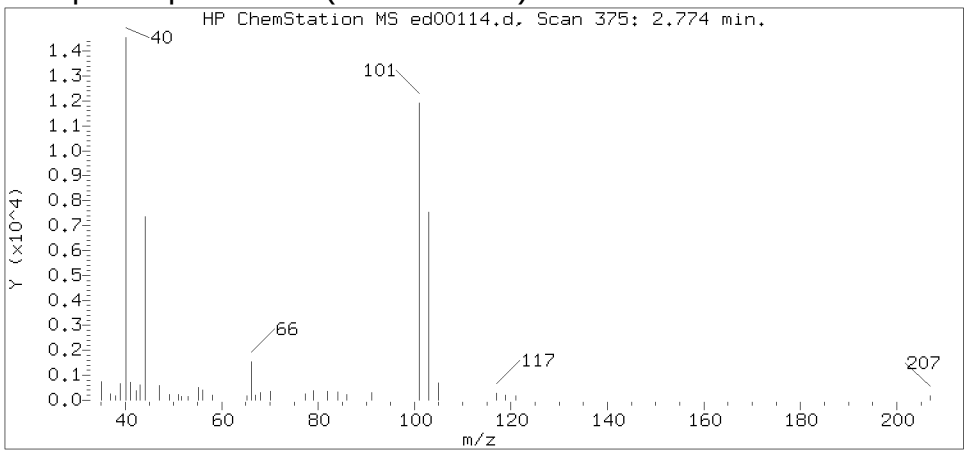


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

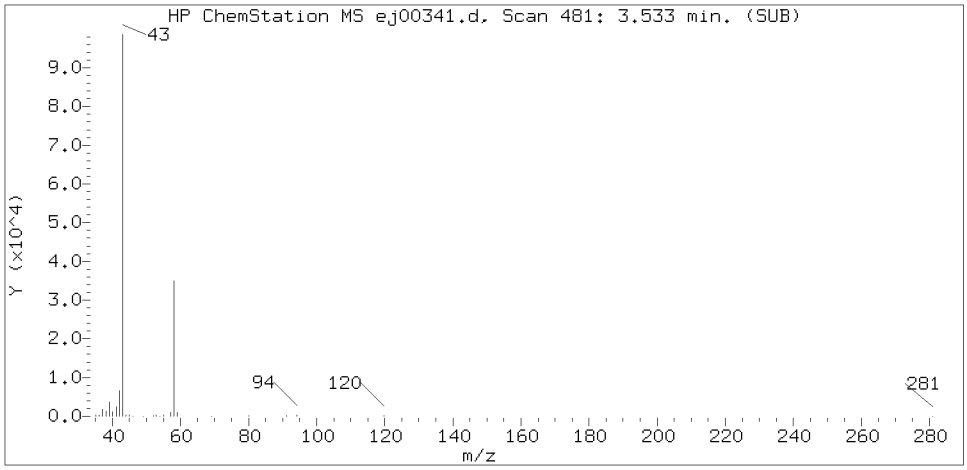
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

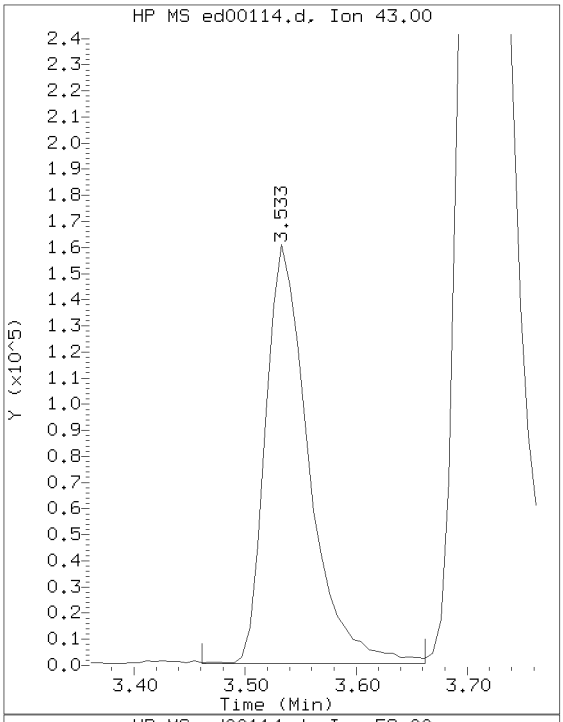
Sample Name: DKELA Lab Sample ID: 8906232

Compound Number : 12
Compound Name : Trichlorofluoromethane
Scan Number : 375
Retention Time (minutes): 2.774
Relative Retention Time :-0.00064
Quant Ion : 101.00
Area (flag) : 25745
Concentration (ppb(v)) : 0.4940

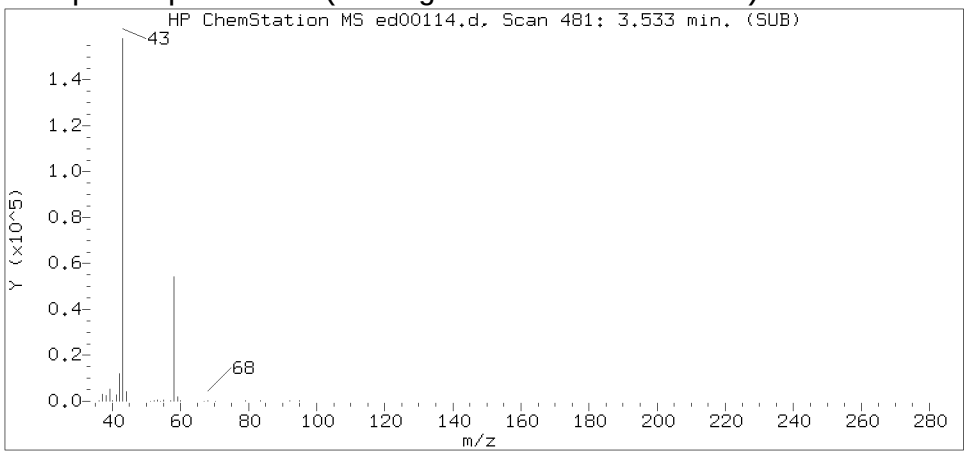
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

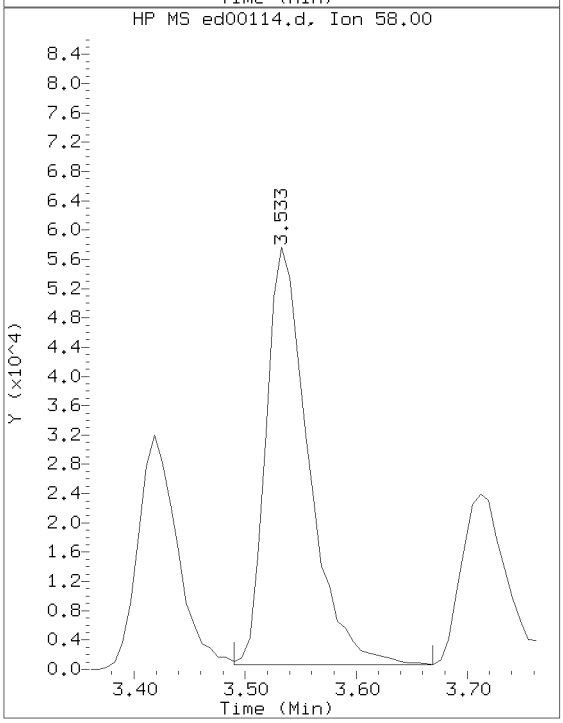
Reference Standard Spectrum for Acetone



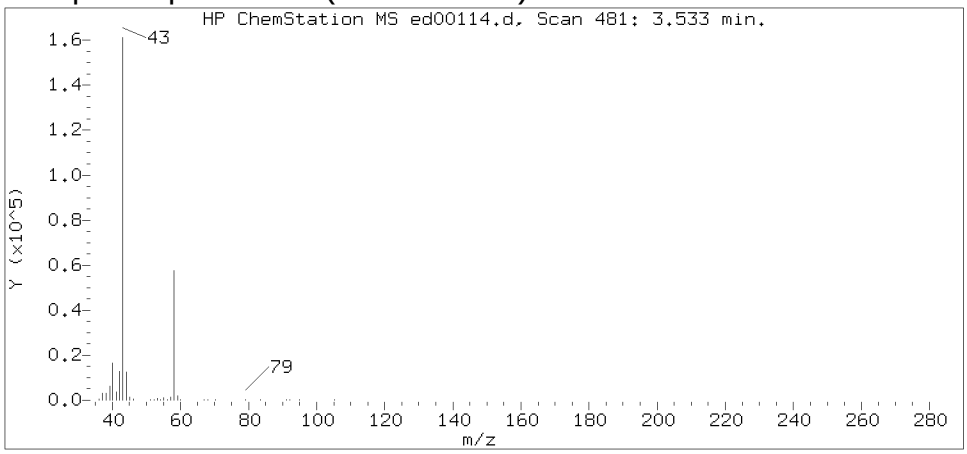


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

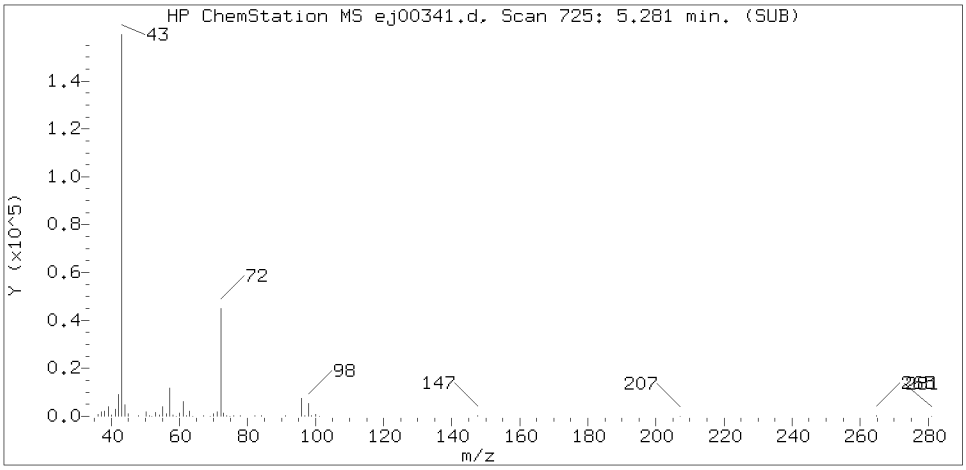
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

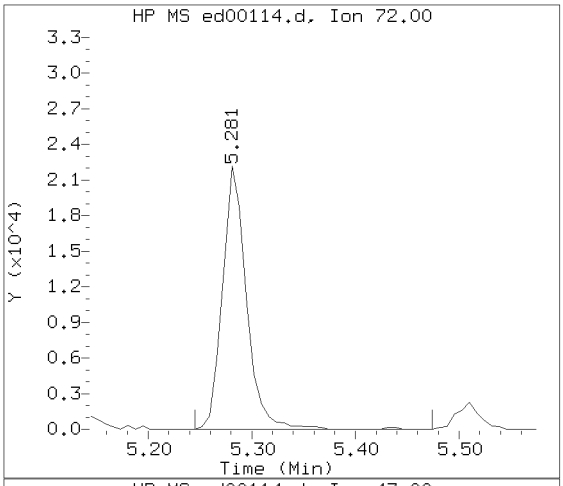
Sample Name: DKELA Lab Sample ID: 8906232

Compound Number : 19
Compound Name : Acetone
Scan Number : 481
Retention Time (minutes): 3.533
Relative Retention Time : 0.00085
Quant Ion : 43.00
Area (flag) : 435571
Concentration (ppb(v)) : 19.9428

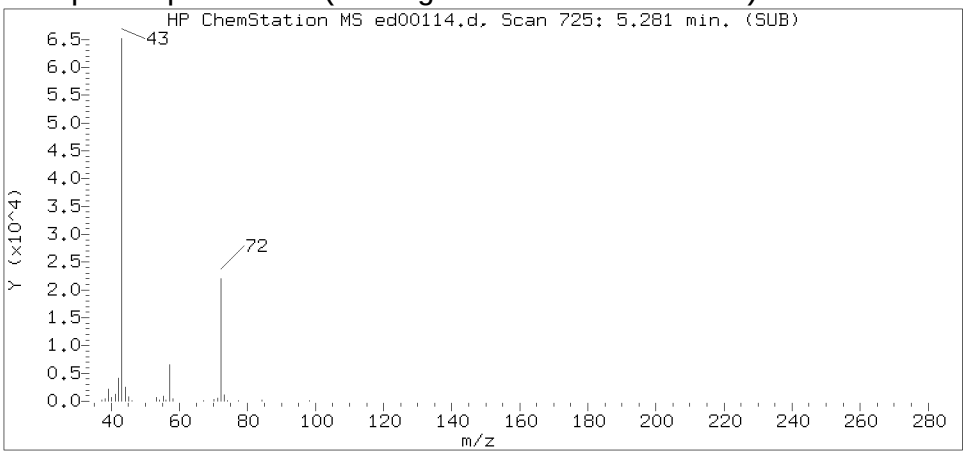
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

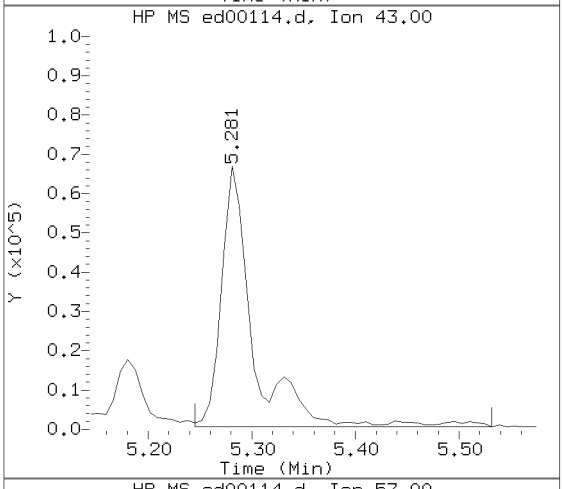
Reference Standard Spectrum for 2-Butanone



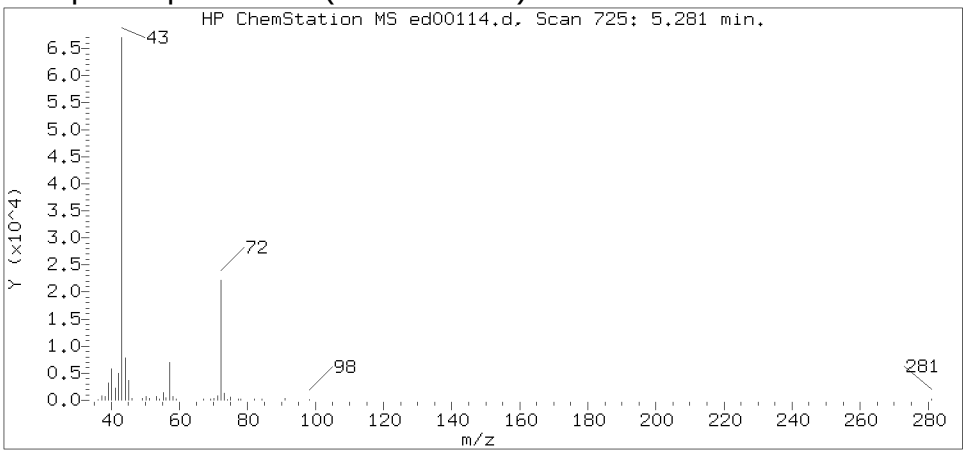


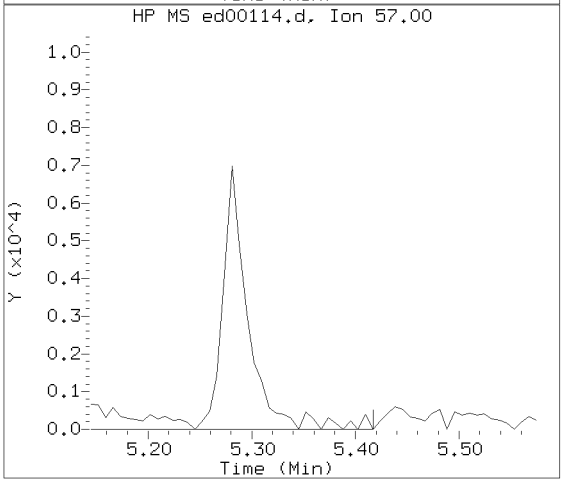
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

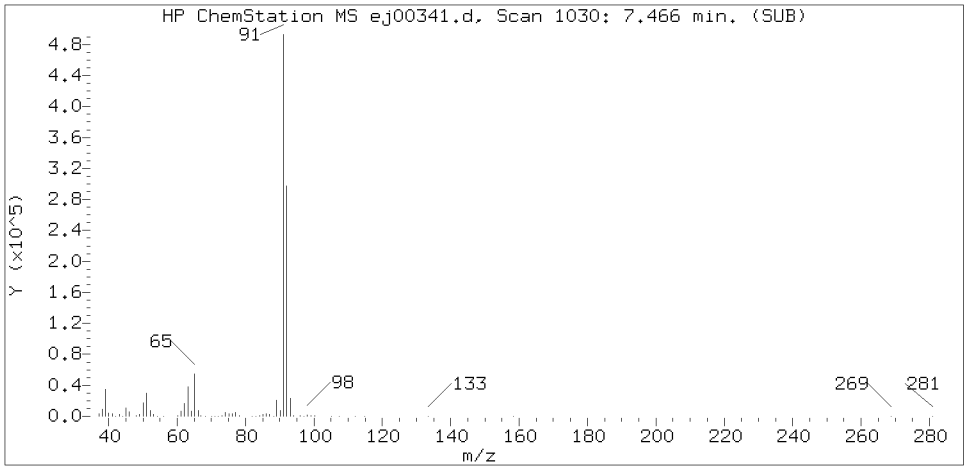
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

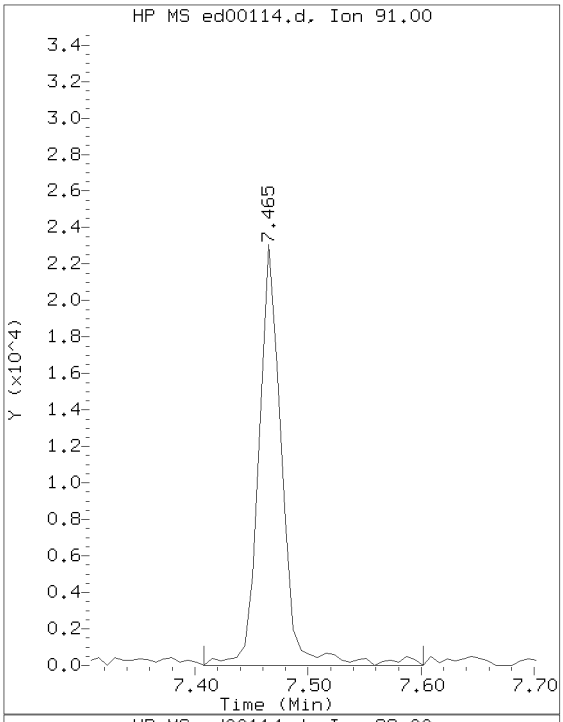
Sample Name: DKELA Lab Sample ID: 8906232

Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 725
Retention Time (minutes): 5.281
Relative Retention Time : 0.00127
Quant Ion : 72.00
Area (flag) : 35683
Concentration (ppb(v)) : 3.5689

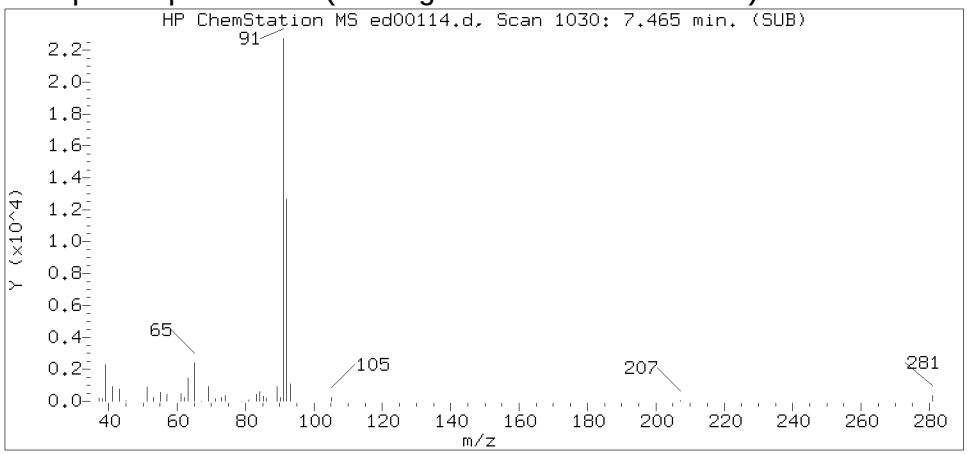
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

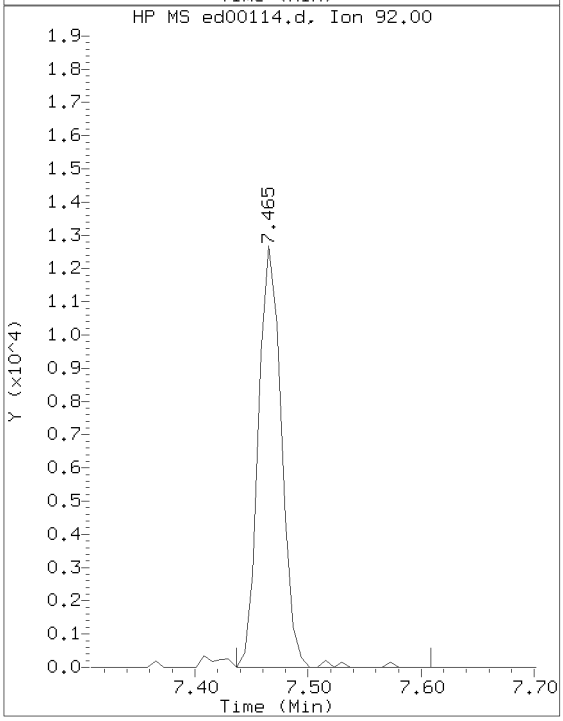
Reference Standard Spectrum for Toluene



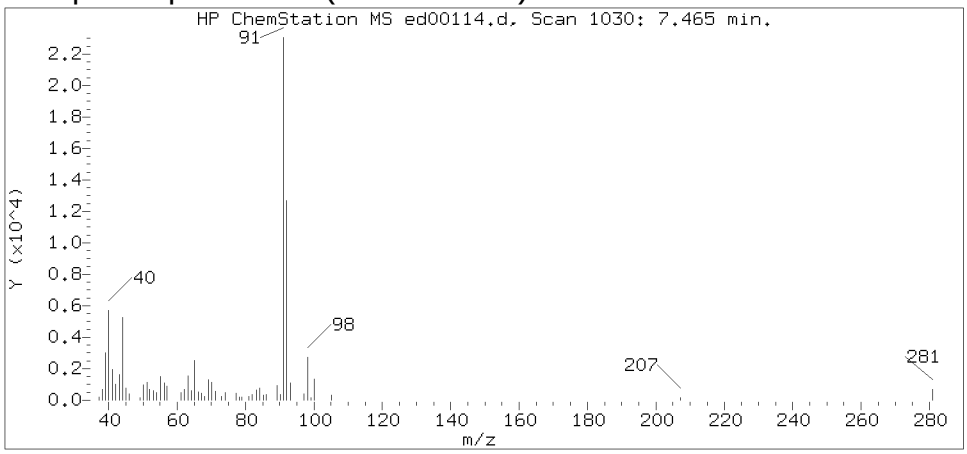


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

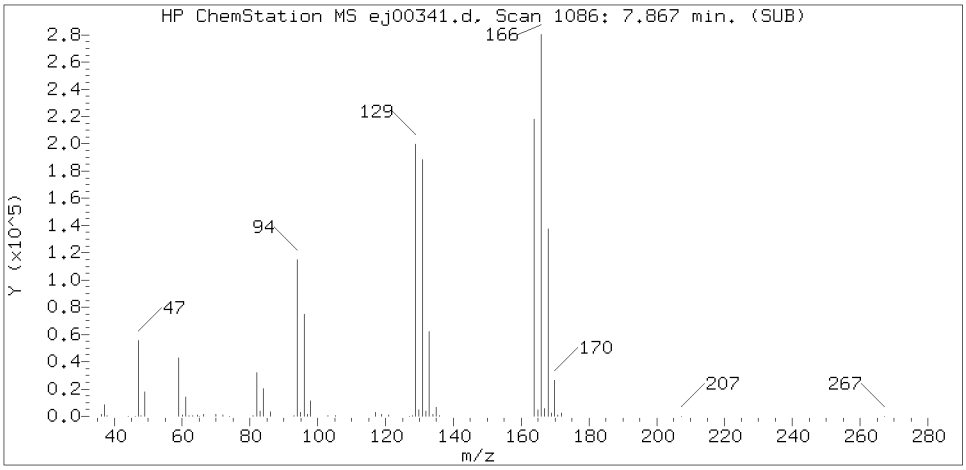
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

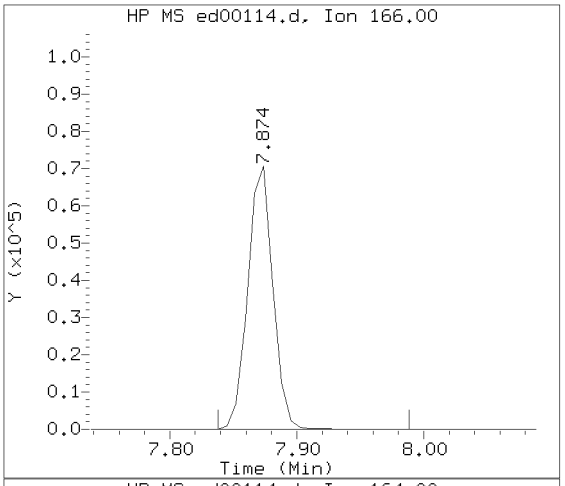
Sample Name: DKELA Lab Sample ID: 8906232

Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.465
Relative Retention Time : 0.00000
Quant Ion : 91.00
Area (flag) : 33028
Concentration (ppb(v)) : 0.3680

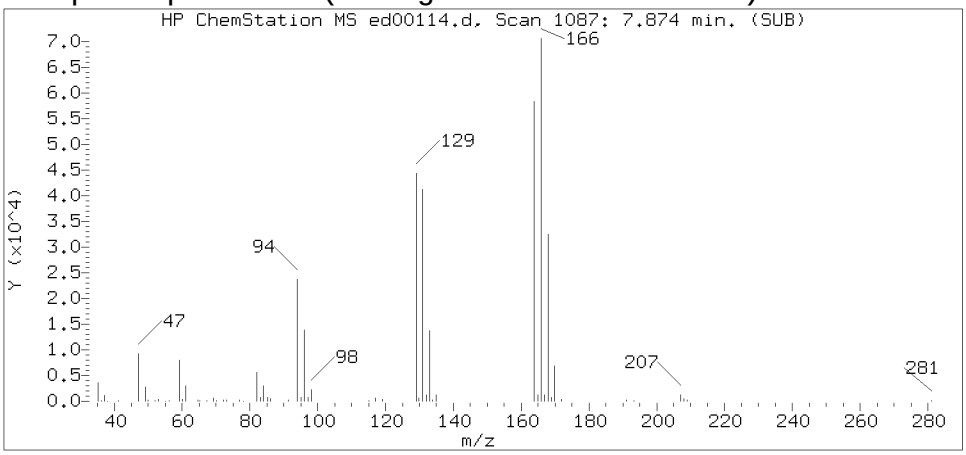
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

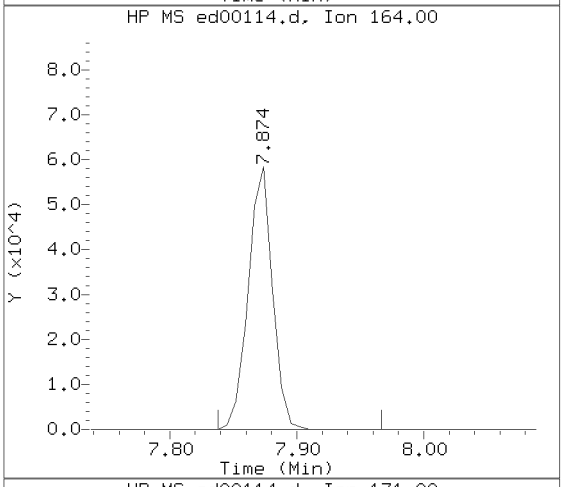
Reference Standard Spectrum for Tetrachloroethene



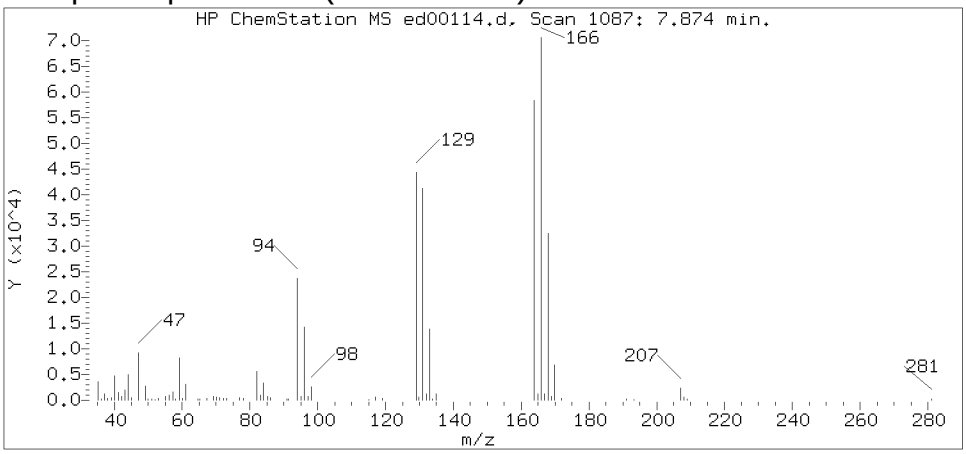


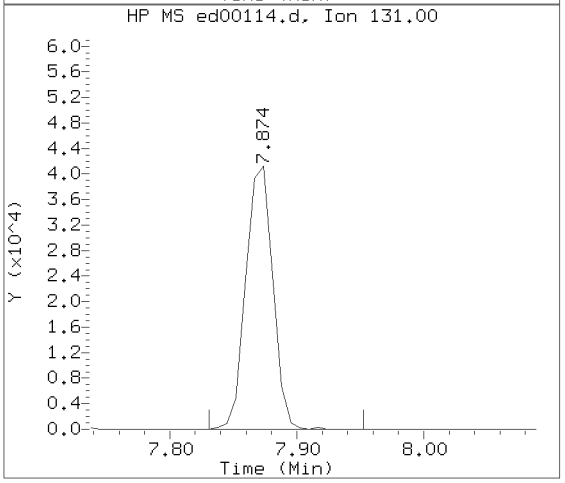
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

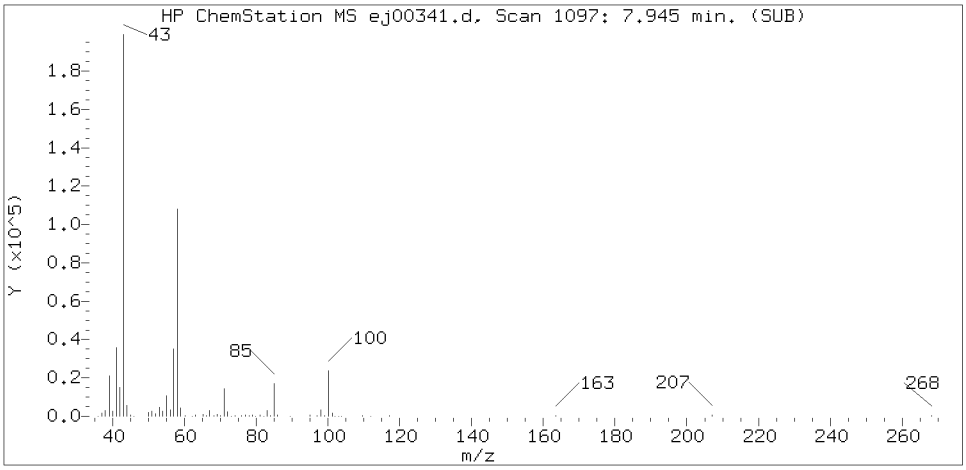
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

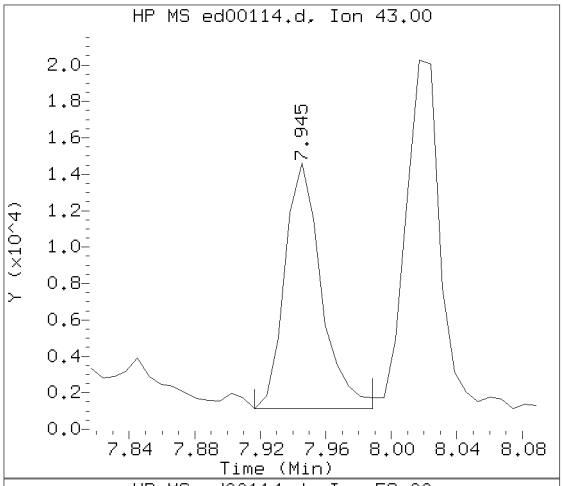
Sample Name: DKELA Lab Sample ID: 8906232

Compound Number : 67
Compound Name : Tetrachloroethene
Scan Number : 1087
Retention Time (minutes): 7.874
Relative Retention Time : 0.00000
Quant Ion : 166.00
Area (flag) : 97325
Concentration (ppb(v)) : 1.8422

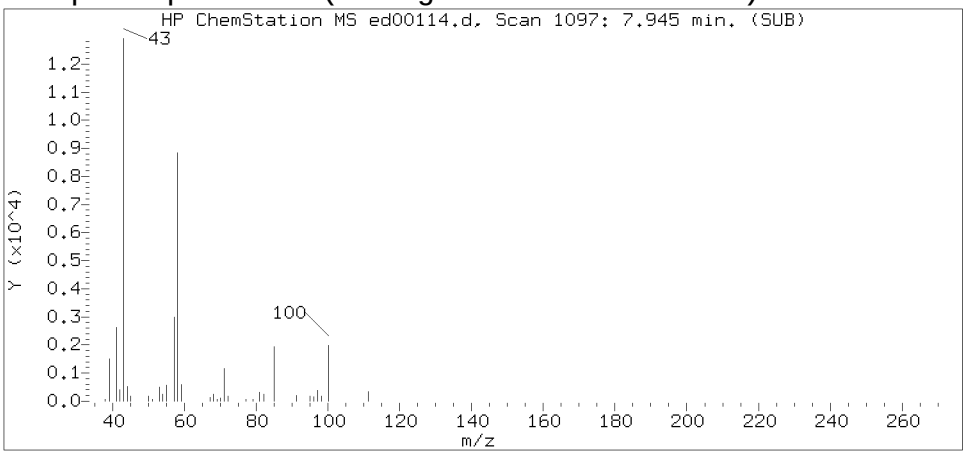
Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

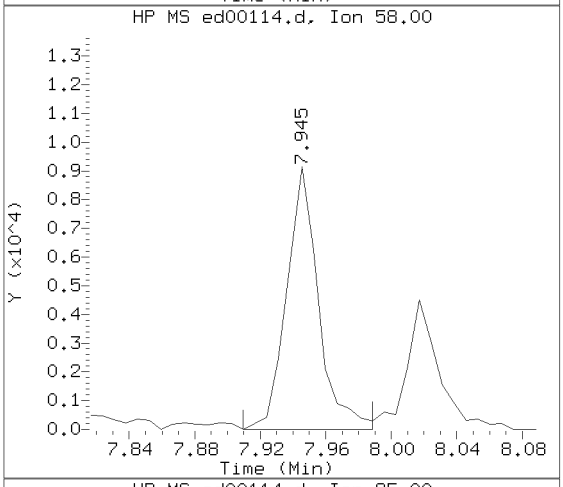
Reference Standard Spectrum for 2-Hexanone



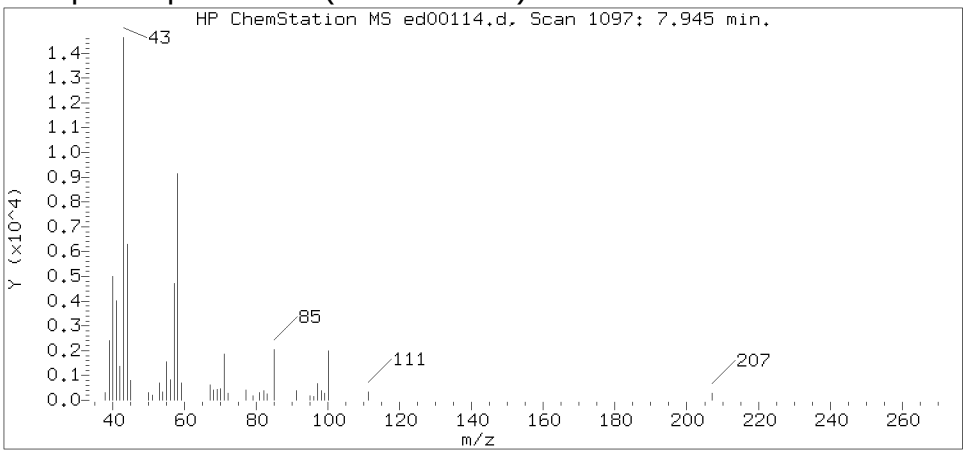


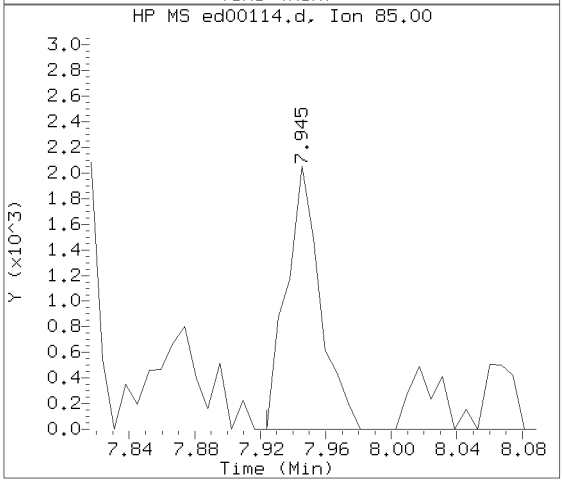
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP22820.i/17apr06.b/ed00114.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 03:30 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:56 jeb07445

Sample Name: DKELA Lab Sample ID: 8906232

Compound Number : 68
Compound Name : 2-Hexanone
Scan Number : 1097
Retention Time (minutes): 7.945
Relative Retention Time : 0.00000
Quant Ion : 43.00
Area (flag) : 20767
Concentration (ppb(v)) : 0.5496

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Standards Data

Volatile Organics in Air by GC/MS

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP22820 **HP #05**

Data Directory Path is - D:\data\17mar30\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jeb07445	EC00830.D	50NGBFB	03/30/2017	12:36		
jeb07445	EC00831.D	VSTD010	03/30/2017	13:19		
jeb07445	EC00832.D	VBLKE47	03/30/2017	14:41	E1708830AA	
jeb07445	EC00833.D	VBLKE47	03/30/2017	15:25	E1708830AA	
jeb07445	EC00840.D	50NGBFB	03/30/2017	16:00		
jeb07445	EC00842.D	VSTD0.20	03/30/2017	17:18		
jeb07445	EC00843.D	VSTD0.20	03/30/2017	17:52		
jeb07445	EC00844.D	VSTD0.50	03/30/2017	18:25		
jeb07445	EC00845.D	VSTD0.50	03/30/2017	18:59		
jeb07445	EC00846.D	VSTD001	03/30/2017	19:24		
jeb07445	EC00847.D	VSTD001	03/30/2017	19:49		
jeb07445	EC00848.D	VSTD002	03/30/2017	20:15		
jeb07445	EC00849.D	VSTD005	03/30/2017	20:42		
jeb07445	EC00850.D	VSTD010	03/30/2017	21:16		
jeb07445	EC00851.D	VSTD025	03/30/2017	21:43		
jeb07445	EC00852.D	VSTD070	03/30/2017	22:21		
jeb07445	EC00853.D	VBLKE48	03/30/2017	22:55	E1708930AA	
jeb07445	EC00854.D	VBLKE48	03/30/2017	23:28	E1708930AA	
jeb07445	EC00855.D	VBLKE48	03/31/2017	00:02	E1708930AA	
jeb07445	EC00856.D	VBLKE48	03/31/2017	00:36	E1708930AA	
jeb07445	EC00857.D	VBLKE48	03/31/2017	01:10	E1708930AA	
jeb07445	EC00858.D	LCSE48	03/31/2017	01:44	E1708930AA	
jeb07445	EC00859.D	LCSDE48	03/31/2017	02:17	E1708930AA	
jeb07445	EC00860.D	LCSE48	03/31/2017	02:51	E1708930AA	
jeb07445	EC00861.D	LCSDE48	03/31/2017	03:25	E1708930AA	
jeb07445	EC00862.D	mdlv0.5	03/31/2017	03:59	E1708930AA	
jeb07445	EC00863.D	mdlv0.2	03/31/2017	04:26	E1708930AA	
jeb07445	EC00864.D	cc927	03/31/2017	09:15	E1708930AA	
jeb07445	EC00865.D	fc1	03/31/2017	09:53	E1708930AA	
jeb07445	EC00866.D	8896789DL	03/31/2017	10:57	E1708930AA	
jeb07445	EC00867.D	8896790DL	03/31/2017	11:22	E1708930AA	
jeb07445	EC00868.D	8896791DL	03/31/2017	11:48	E1708930AA	
jeb07445	EC00869.D	8902732	03/31/2017	12:32	E1708930AA	
jeb07445	EC00870.D	8902733	03/31/2017	13:16	E1708930AA	
jeb07445	EC00871.D	8902733	03/31/2017	14:00	E1708930AA	
jeb07445	EC00872.D	LCSE48	03/31/2017	14:35	E1708930AA	

Lancaster Laboratories
Volatiles in Air
Runlog for Agilent GC/MS System HP22820 **HP #05**

Data Directory Path is - D:\data\17apr06\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
jeb07445	ED00090.D	50NGBFB	04/06/2017	12:29		
jeb07445	ED00091.D	VSTD010	04/06/2017	13:14		
jeb07445	ED00092.D	VBLKE54	04/06/2017	14:01	E1709630AA	
jeb07445	ED00093.D	LCSE55	04/06/2017	14:44	E1709630AA	
jeb07445	ED00094.D	LCSDE55	04/06/2017	15:18	E1709630AA	
jeb07445	ED00095.D	8901870DL2	04/06/2017	16:05	E1709430AA	
jeb07445	ED00096.D	8901871DL2	04/06/2017	16:30	E1709630AA	
jeb07445	ED00097.D	8901872DL2	04/06/2017	17:01	E1709630AA	
jeb07445	ED00098.D	8901873DL2	04/06/2017	17:27	E1709630BA	
jeb07445	ED00099.D	8901874DL2	04/06/2017	17:57	E1709630BA	
jeb07445	ED00100.D	8901875DL2	04/06/2017	18:23	E1709630BA	
jeb07445	ED00101.D	8901879DL2	04/06/2017	18:51	E1709630BA	
jeb07445	ED00102.D	8901880DL2	04/06/2017	19:16	E1709630BA	
jeb07445	ED00103.D	8901881DL2	04/06/2017	19:44	E1709630BA	
jeb07445	ED00104.D	8901882DL	04/06/2017	20:11	E1709630BA	
jeb07445	ED00105.D	8901883	04/06/2017	20:55	E1709630BA	
jeb07445	ED00106.D	8901883	04/06/2017	21:39	E1709630BA	
jeb07445	ED00107.D	8906225	04/06/2017	22:22	E1709630AA	
jeb07445	ED00108.D	8906226	04/06/2017	23:06	E1709630AA	
jeb07445	ED00109.D	8906227	04/06/2017	23:50	E1709630AA	
jeb07445	ED00110.D	8906228	04/07/2017	00:34	E1709630AA	
jeb07445	ED00111.D	8906229	04/07/2017	01:18	E1709630AA	
jeb07445	ED00112.D	8906230	04/07/2017	02:02	E1709630AA	
jeb07445	ED00113.D	8906231	04/07/2017	02:46	E1709630AA	
jeb07445	ED00114.D	8906232	04/07/2017	03:30	E1709630AA	
jeb07445	ED00115.D	8906232	04/07/2017	04:14	E1709630AA	
jeb07445	ED00116.D	8906384	04/07/2017	04:41	E1709630AA	
jeb07445	ED00117.D	cc980	04/07/2017	05:15	E1709630AA	
jeb07445	ED00118.D	cc1510	04/07/2017	05:49	E1709630AA	
jeb07445	ED00119.D	cc980	04/07/2017	09:11	E1709630AA	
jeb07445	ED00120.D	cc980	04/07/2017	09:57	E1709630AA	
jeb07445	ED00121.D	fc1	04/07/2017	10:46	E1709630AA	
jeb07445	ED00122.D	fc1	04/07/2017	11:22	E1709630AA	
jeb07445	ED00123.D	fc2	04/07/2017	12:02	E1709630AA	

Data File: /chem/HP22820.i/17mar30.b/ec00840.d

Page 1

Date : 30-MAR-2017 16:00

Client ID: 50NGBFB

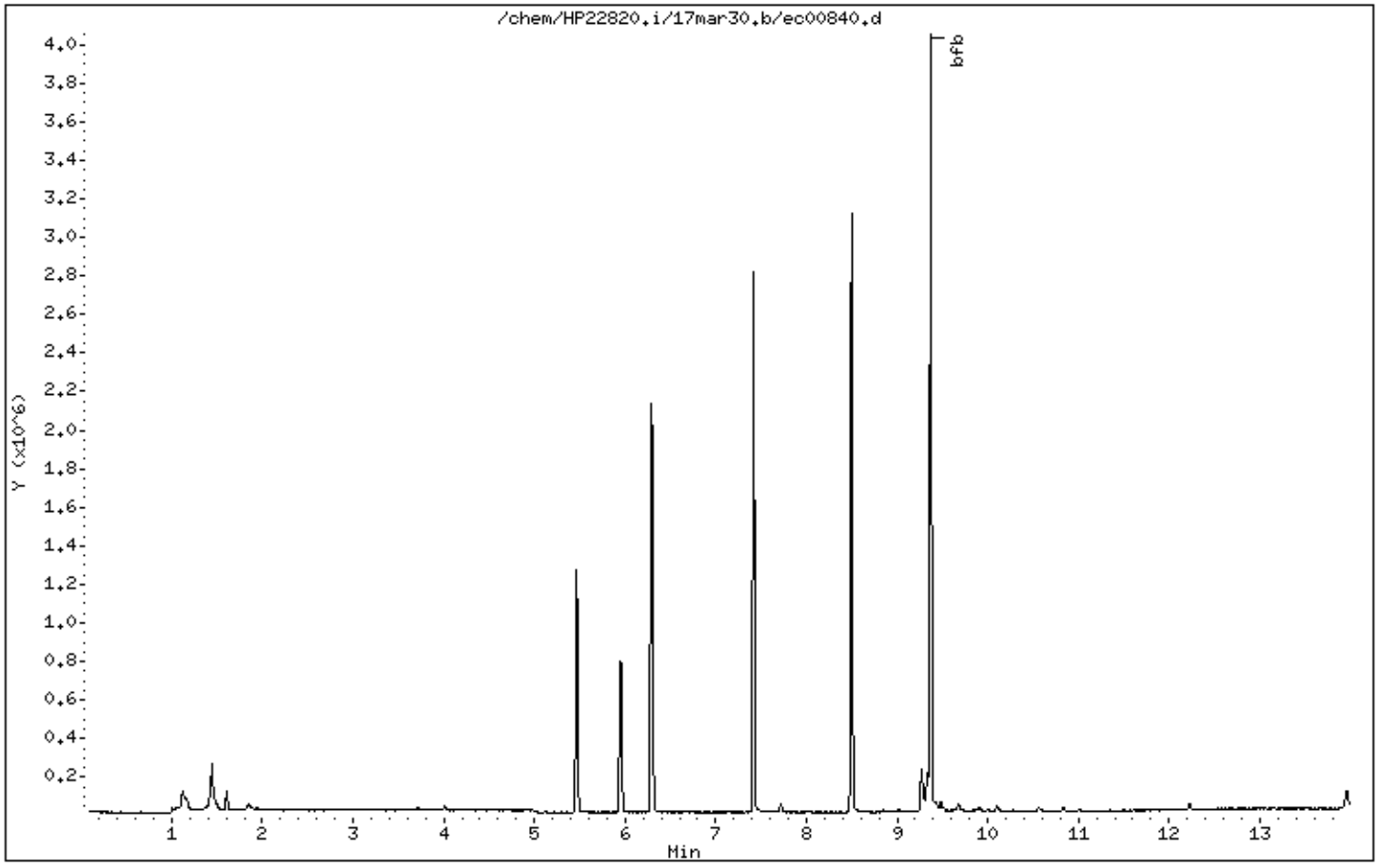
Instrument: HP22820.i

Sample Info: 50NGBFB;;;50NGBFB;;;;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Data File: /chem/HP22820.i/17mar30.b/ec00840.d

Date : 30-MAR-2017 16:00

Client ID: 50NGBFB

Instrument: HP22820.i

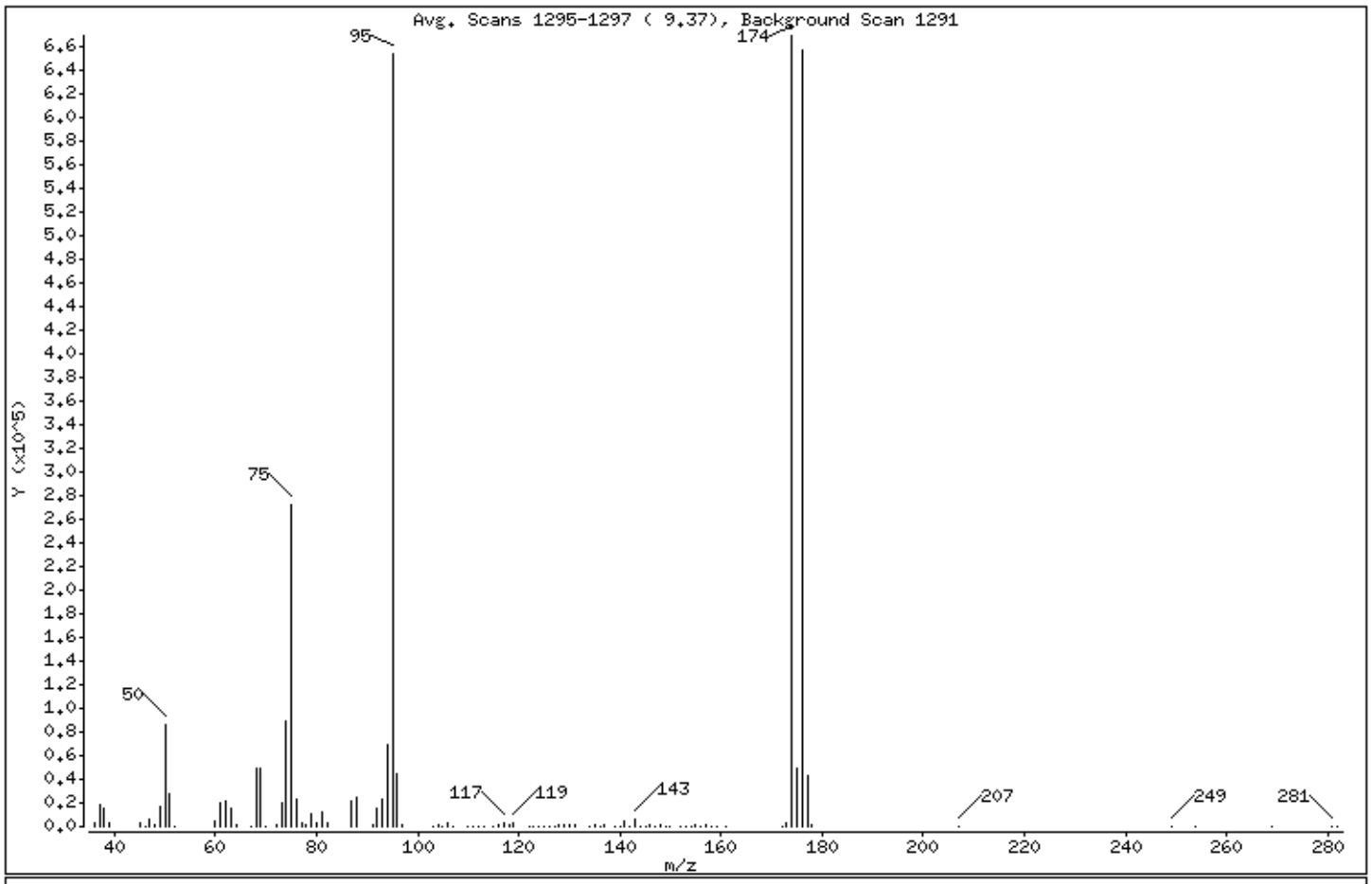
Sample Info: 50NGBFB;;;50NGBFB;;;;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	13.11
75	30.00 - 66.00% of mass 95	41.74
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.57 (0.56)
174	50.00 - 120.00% of mass 95	102.47
175	4.00 - 9.00% of mass 174	7.42 (7.24)
176	93.00 - 101.00% of mass 174	100.52 (98.10)
177	5.00 - 9.00% of mass 176	6.66 (6.63)

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Date : 30-MAR-2017 16:00

Client ID: 50NGBFB Instrument: HP22820.i

Sample Info: 50NGBFB;;;50NGBFB;;;;

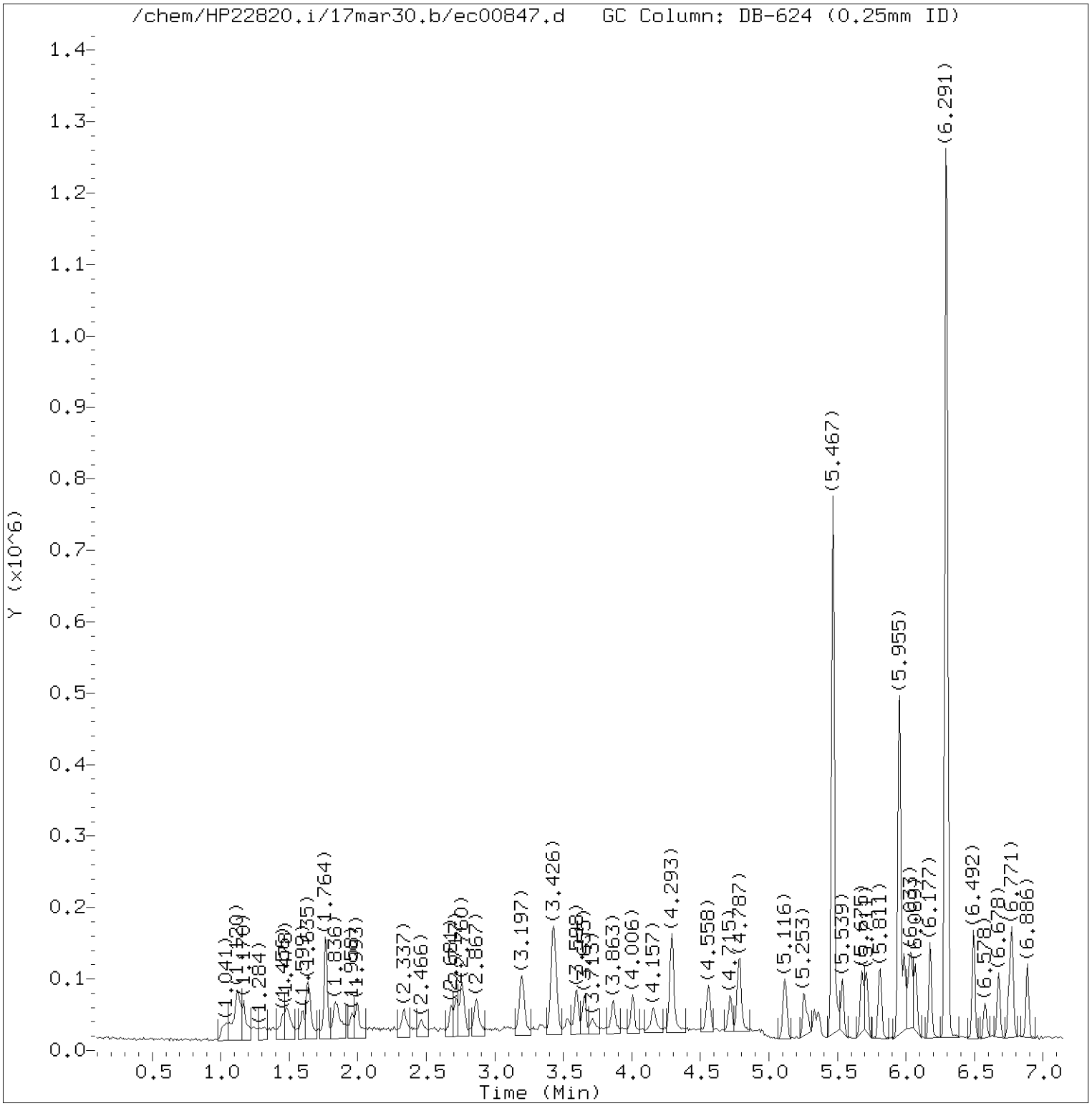
Operator: jeb07445

Column phase: DB-624 Column diameter: 0.25

Data File: ec00840.d
Spectrum: Avg. Scans 1295-1297 (9.37), Background Scan 1291
Location of Maximum: 174.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2744	77.00	3369	117.00	3687	148.00	1432
37.00	18144	78.00	1929	118.00	2145	149.00	553
38.00	15796	79.00	11355	119.00	2974	150.00	491
39.00	3701	80.00	3298	122.00	180	152.00	248
45.00	2471	81.00	12030	123.00	220	153.00	697
46.00	447	82.00	2384	124.00	361	154.00	703
47.00	6107	87.00	21872	125.00	140	155.00	1687
48.00	2094	88.00	24208	126.00	140	156.00	485
49.00	16808	91.00	1629	127.00	150	157.00	1155
50.00	85704	92.00	15161	128.00	1983	158.00	348
51.00	27816	93.00	23608	129.00	990	159.00	732
52.00	519	94.00	69176	130.00	2267	161.00	524
60.00	4070	95.00	653760	131.00	936	172.00	549
61.00	19608	96.00	44592	134.00	153	173.00	3744
62.00	21928	97.00	816	135.00	790	174.00	669888
63.00	15959	103.00	193	136.00	72	175.00	48528
64.00	1452	104.00	2268	137.00	925	176.00	657152
67.00	530	105.00	662	139.00	246	177.00	43544
68.00	49984	106.00	2412	140.00	394	178.00	1351
69.00	49976	107.00	446	141.00	4092	207.00	148
70.00	767	110.00	281	142.00	634	249.00	82
72.00	1599	111.00	426	143.00	5699	254.00	58
73.00	20368	112.00	265	144.00	457	269.00	65
74.00	89200	113.00	156	145.00	536	281.00	236
75.00	272896	115.00	698	146.00	930	282.00	157
76.00	23360	116.00	2027	147.00	552		

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818



Total Ion Chromatogram (TIC)

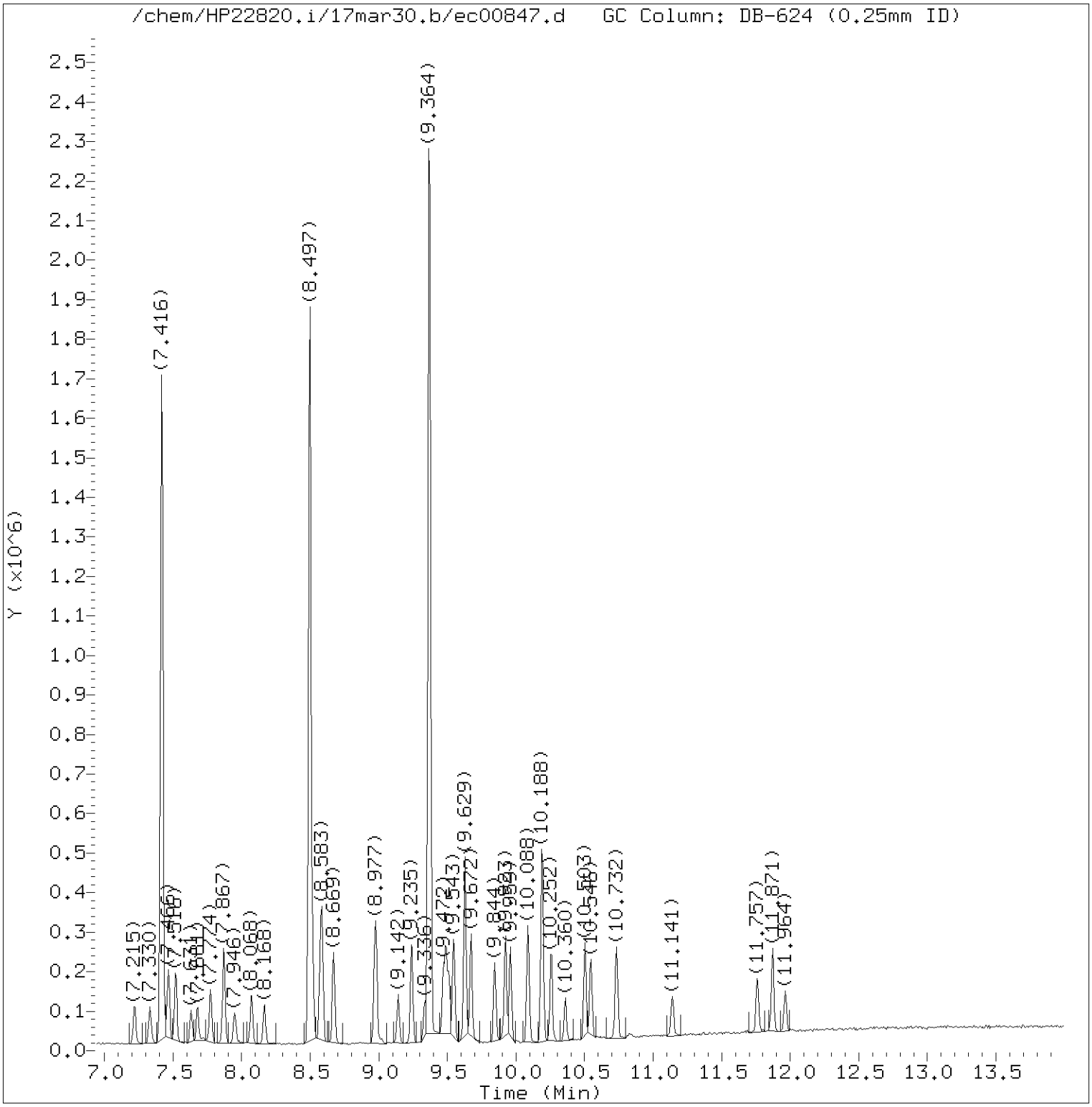
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD001 Lab Sample ID: VSTD001

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD001 Lab Sample ID: VSTD001

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.592	41	15784	1.000
2) Dichlorodifluoromethane	(1)	1.635	85	56196	1.000
3) Chlorodifluoromethane	(1)	1.650	51	31800	1.000
4) Freon 114	(1)	1.764	85	60143	1.000
5) Chloromethane	(1)	1.829	50	19025	1.000
6) Vinyl Chloride	(1)	1.958	62	20643	1.000
7) 1,3-Butadiene	(1)	1.993	54	16475	1.000
8) Bromomethane	(1)	2.337	94	22086	1.000
9) Chloroethane	(1)	2.466	64	12717	1.000
10) Bromoethene	(1)	2.681	106	24206	1.000
11) Dichlorofluoromethane	(1)	2.717	67	47172	1.000
12) Trichlorofluoromethane	(1)	2.760	101	64094	1.000
13) Pentane	(1)	2.867	43	33527	1.000
14) Ethanol	(1)	3.075	45	5893	1.000
15) Freon123a	(1)	3.197	67	49941	1.000
16) Acrolein	(1)	3.340	56	8217	1.000
17) 1,1-Dichloroethene	(1)	3.419	61	33198	1.000
18) Freon 113	(1)	3.433	103	40826	1.000
19) Acetone	(1)	3.526	43	25177	1.000
20) Methyl Iodide	(1)	3.598	142	68732	1.000
21) Carbon Disulfide	(1)	3.655	76	63642	1.000
22) Isopropanol	(1)	3.713	45	26324	1.130
24) 3-Chloropropene	(1)	3.863	76	11368	1.120
23) Acetonitrile	(1)	3.870	40	15181	1.000
25) Methylene Chloride	(1)	4.006	84	20828	1.120
26) tert-Butyl Alcohol	(1)	4.157	59	44398	1.120
29) Methyl t-Butyl Ether	(1)	4.293	73	71101	1.000
28) trans-1,2-Dichloroethene	(1)	4.293	61	30019	1.000
27) Acrylonitrile	(1)	4.300	53	17204	1.000
30) Hexane	(1)	4.558	57	37674	1.000
31) 1,1-Dichloroethane	(1)	4.715	63	41404	1.000
33) Di-Isopropyl Ether	(1)	4.780	45	69867	1.000
32) Vinyl Acetate	(1)	4.787	86	5251	1.130
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	70987	1.000
35) cis-1,2-Dichloroethene	(1)	5.253	61	27622	1.000
37) 2-Butanone	(1)	5.288	72	11380	1.000
38) Ethyl Acetate	(1)	5.331	70	7643	1.000
39) Methyl Acrylate	(1)	5.360	55	35326	1.000

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Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	249117	10.000
41) Tetrahydrofuran	(1)	5.503	42	20519	1.000
42) Chloroform	(1)	5.539	83	51294	1.000
43) 1,1,1-Trichloroethane	(1)	5.675	97	54285	1.000
44) Cyclohexane	(1)	5.711	56	37592	1.000
45) Carbon Tetrachloride	(1)	5.811	117	57681	1.000
46) Benzene	(2)	5.983	78	84008	1.000
47) 1,2-Dichloroethane	(2)	6.012	62	30378	1.000
48) Isooctane	(2)	6.033	57	115498	1.000
49) Tert-Amyl Methyl Ether	(2)	6.069	73	73582	1.000
50) Heptane	(2)	6.177	43	39873	1.000
51)*1,4-Difluorobenzene	(2)	6.291	114	933809	10.000
52) Trichloroethene	(2)	6.492	130	42035	1.000
53) Ethyl Acrylate	(2)	6.578	55	47022	1.000
36) 1,2-Dichloroethene (total)	(1)		61	57641	2.000
54) 1,2-Dichloropropane	(2)	6.678	63	29079	1.000
57) Methyl Methacrylate	(2)	6.750	69	28968	1.000
55) Dibromomethane	(2)	6.771	174	39521	1.000
56) 1,4-Dioxane	(2)	6.778	88	19671	1.000
58) Bromodichloromethane	(2)	6.886	83	52463	1.000
59) cis-1,3-Dichloropropene	(2)	7.222	75	48116	1.000
60) 4-Methyl-2-Pentanone	(2)	7.330	43	48346	1.000
61) Toluene	(3)	7.466	91	115158	1.000
62) Octane	(3)	7.516	43	56673	1.000
63) trans-1,3-Dichloropropene	(3)	7.631	75	40179	1.000
65) Ethyl Methacrylate	(3)	7.681	69	44680	1.000
66) 1,1,2-Trichloroethane	(3)	7.774	97	36020	1.000
67) Tetrachloroethene	(3)	7.867	166	64280	1.000
68) 2-Hexanone	(3)	7.946	43	46032	1.000
69) Dibromochloromethane	(3)	8.068	127	42915	1.000
70) 1,2-Dibromoethane	(3)	8.168	107	53916	1.000
71)*Chlorobenzene-d5	(3)	8.497	117	889701	10.000
72) Chlorobenzene	(3)	8.519	112	95484	1.000
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	43989	1.000
74) Ethylbenzene	(3)	8.583	91	140383	1.000
75) m/p-Xylene	(3)	8.669	91	112804	1.000
76) o-Xylene	(3)	8.970	91	108678	1.000
78) Styrene	(3)	8.985	104	76556	1.000

* = Compound is an internal standard.

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Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

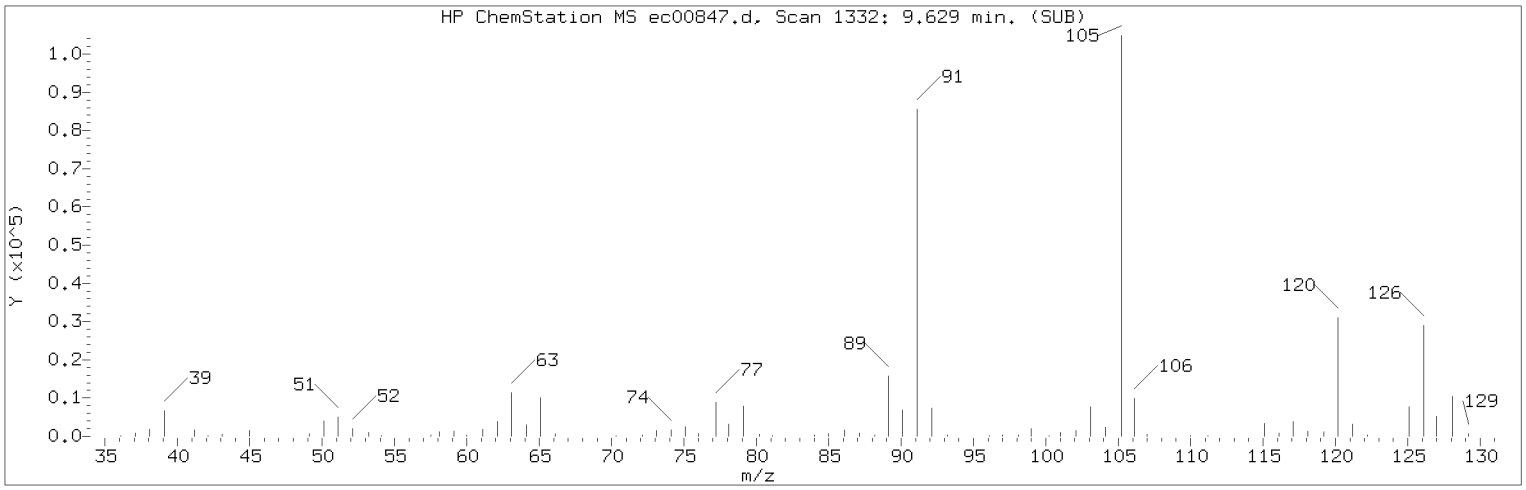
Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	49928	1.000
80) Cumene	(3)	9.235	105	148776	1.000
82) 1,1,2,2-Tetrachloroethane	(3)	9.472	83	67557	1.000
81) Bromobenzene	(3)	9.493	156	55306	1.000
83) 1,2,3-Trichloropropane	(3)	9.515	110	23849	1.000
84) n-Propylbenzene	(3)	9.550	120	45315	1.000
86) 4-Ethyltoluene	(3)	9.629	105	145102M	1.000
85) 2-Chlorotoluene	(3)	9.629	126	40099	1.000
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	120927M	1.000
88) Alpha Methyl Styrene	(3)	9.844	118	54700	1.000
89) tert-Butylbenzene	(3)	9.923	119	115882M	1.000
90) 1,2,4-Trimethylbenzene	(3)	9.959	105	113793	1.000
91) sec-Butylbenzene	(3)	10.088	105	163124	1.000
92) 1,3-Dichlorobenzene	(3)	10.188	146	87564	1.000
94) p-Isopropyltoluene	(3)	10.188	119	138263	1.000
93) 1,4-Dichlorobenzene	(3)	10.260	146	87873	1.000
95) Benzyl Chloride	(3)	10.360	91	69254	1.000
97) n-Butylbenzene	(3)	10.503	91	115136	1.000
96) 1,2-Dichlorobenzene	(3)	10.546	146	77542	1.000
98) Hexachloroethane	(3)	10.732	117	28147	1.000
99) 1,2-Dibromo-3-chloropropane	(3)	11.141	157	25178	1.000
100) 1,2,4-Trichlorobenzene	(3)	11.764	180	42899	1.000
101) Hexachlorobutadiene	(3)	11.871	225	37459	1.000
102) Naphthalene	(3)	11.964	128	74350	1.000
64) 1,3-Dichloropropene (total)	(3)		75	88295	2.000
77) Xylene (total)	(3)		91	221482	2.000

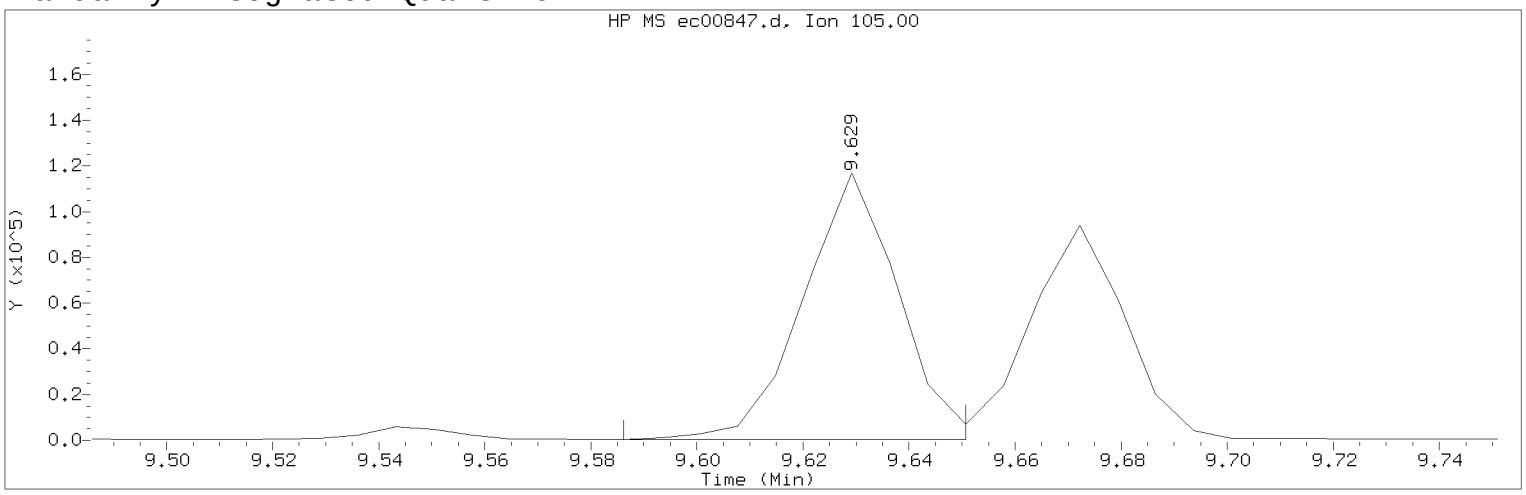
M = Compound was manually integrated.

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on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD001 Lab Sample ID: VSTD001

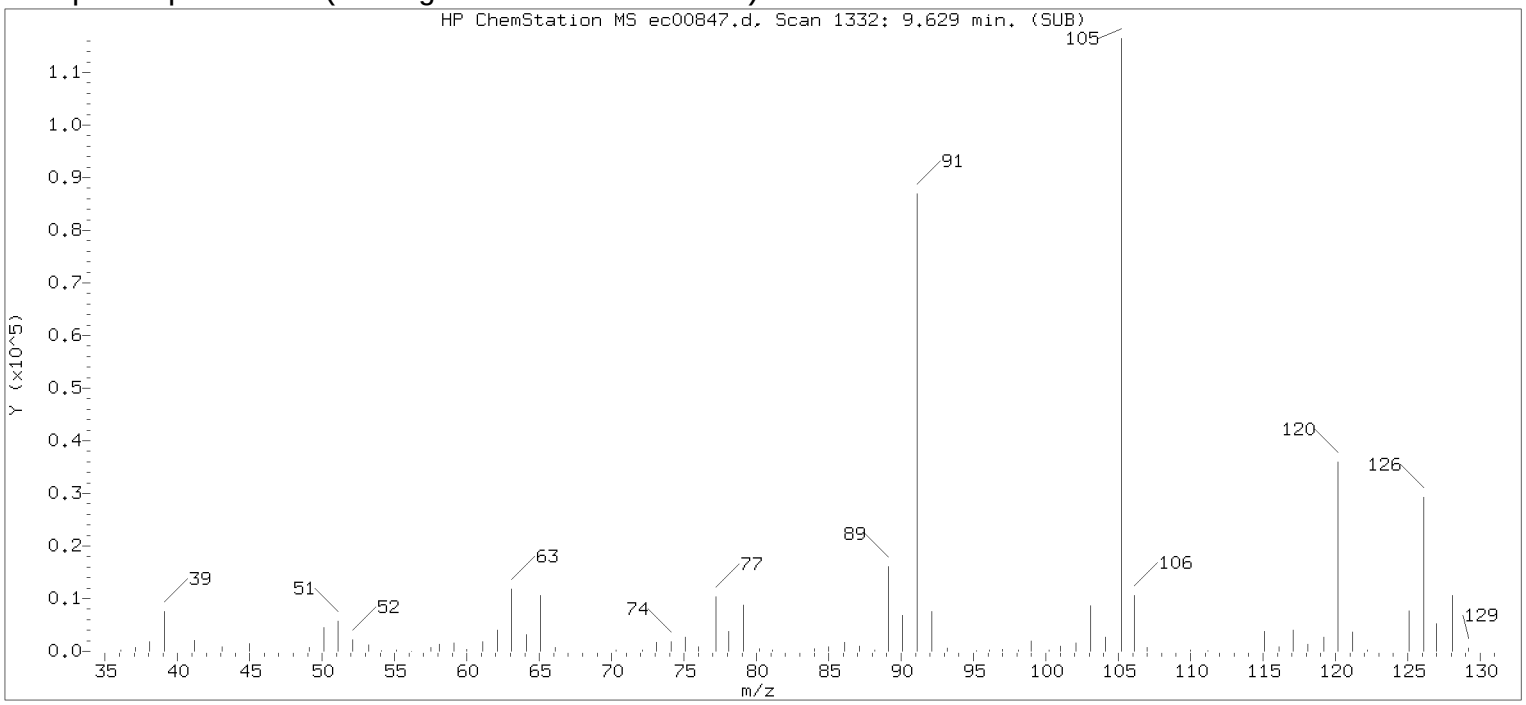
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 145102M
Concentration (ppb(v)) : 1.0000
Integration start scan : 1325 Integration stop scan: 1334
Y at integration start : 276 Y at integration end: 276

Reason for manual integration: improper integration

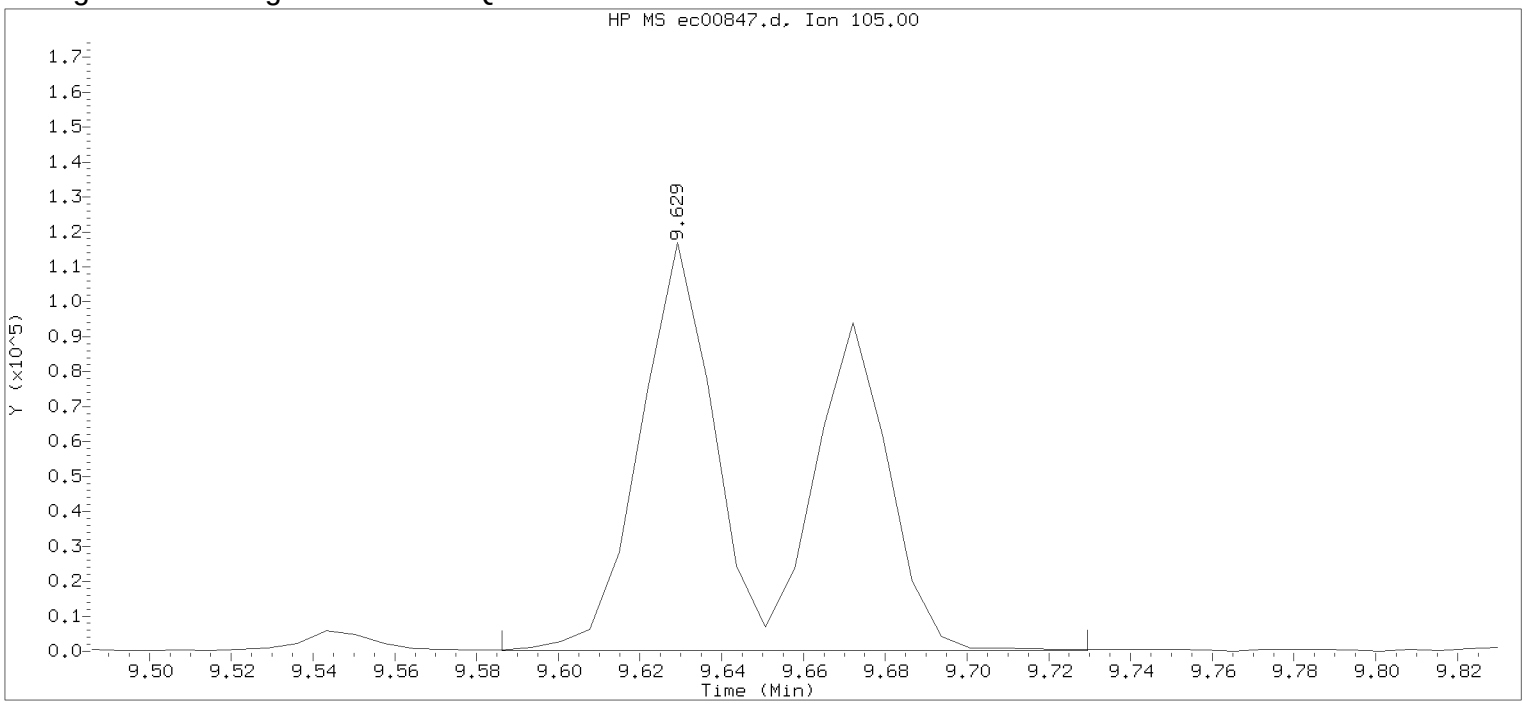
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

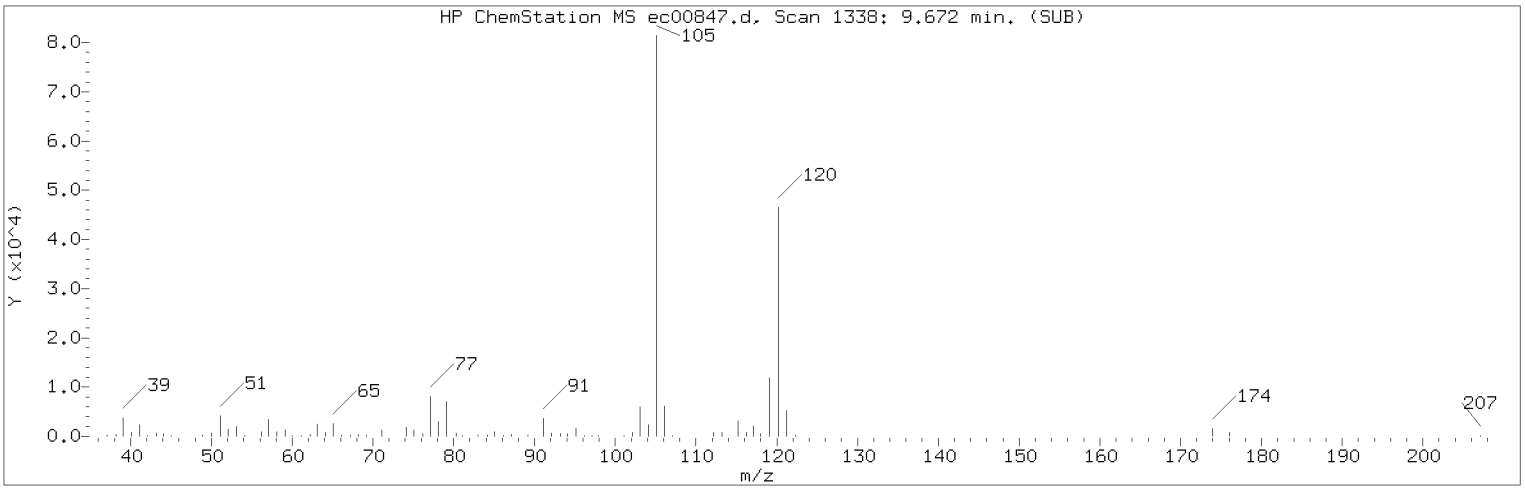
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 20:08 Unknown

Sample Name: VSTD001 Lab Sample ID: VSTD001

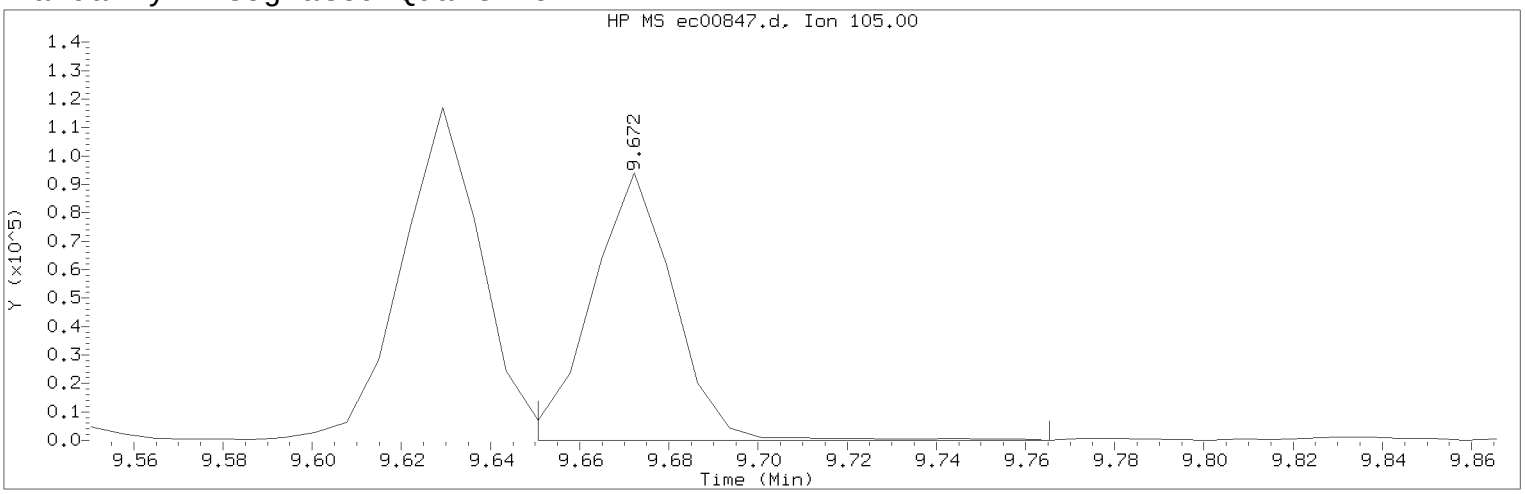
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 261751
Concentration (ppb(v)) : 1.3291
Integration start scan : 1325 Integration stop scan: 1345
Y at integration start : 161 Y at integration end: 161

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD001 Lab Sample ID: VSTD001

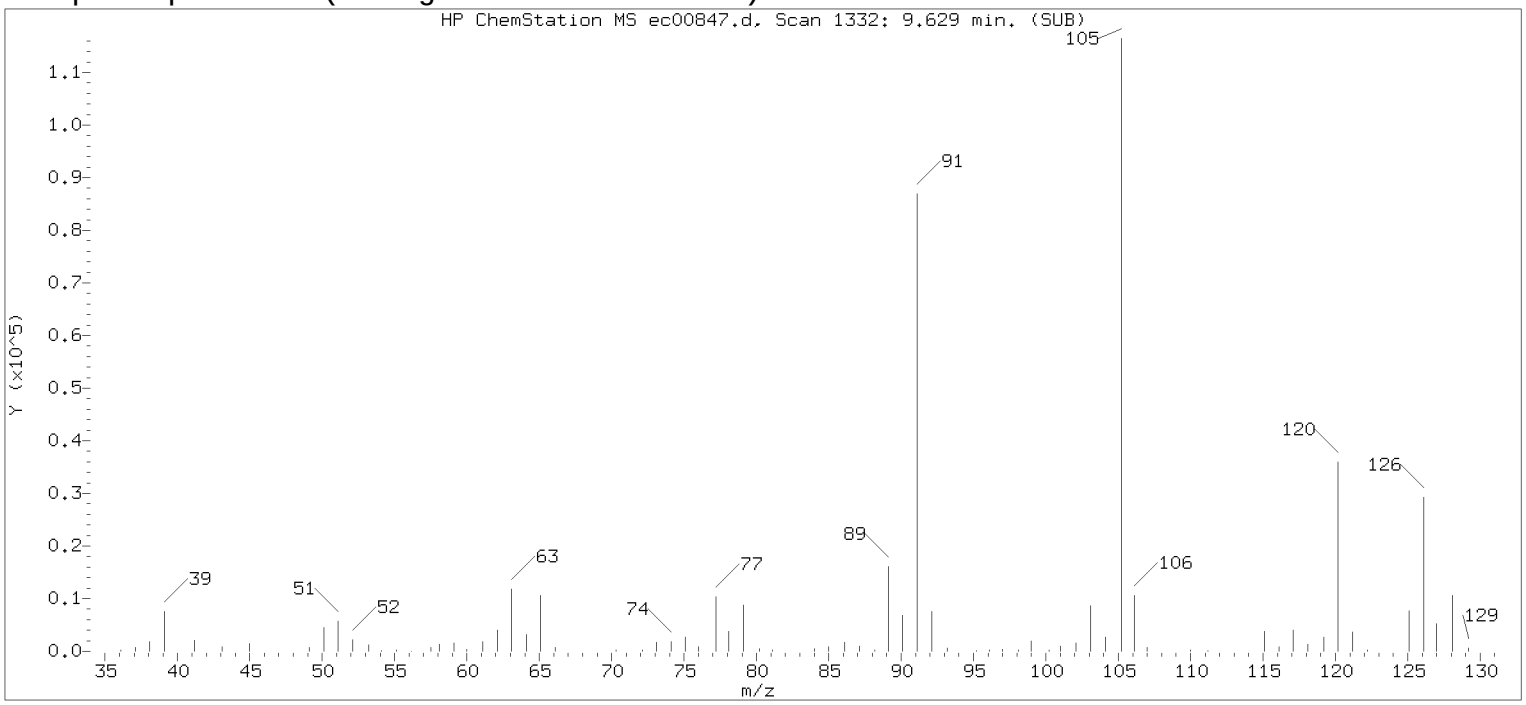
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 120927M
Concentration (ppb(v)) : 1.0000
Integration start scan : 1334 Integration stop scan: 1350
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

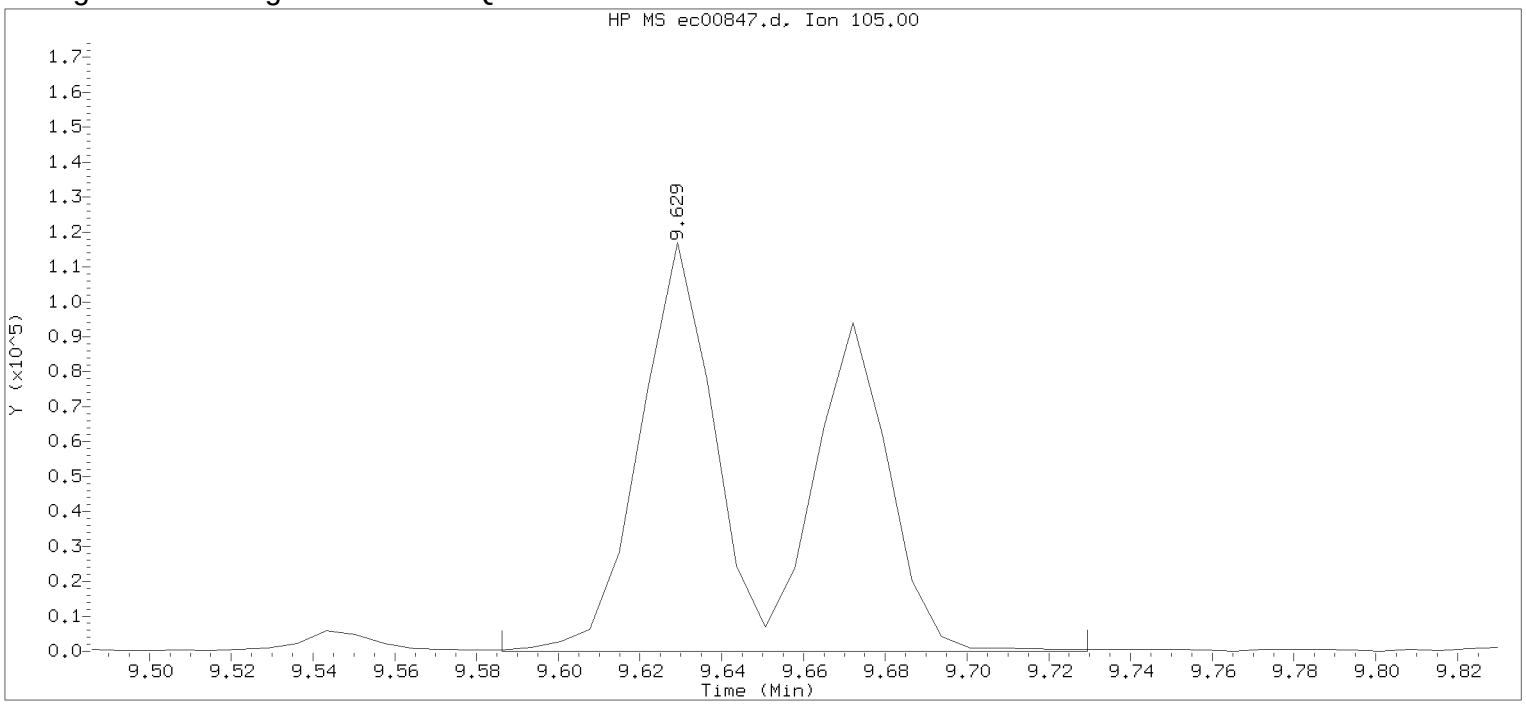
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

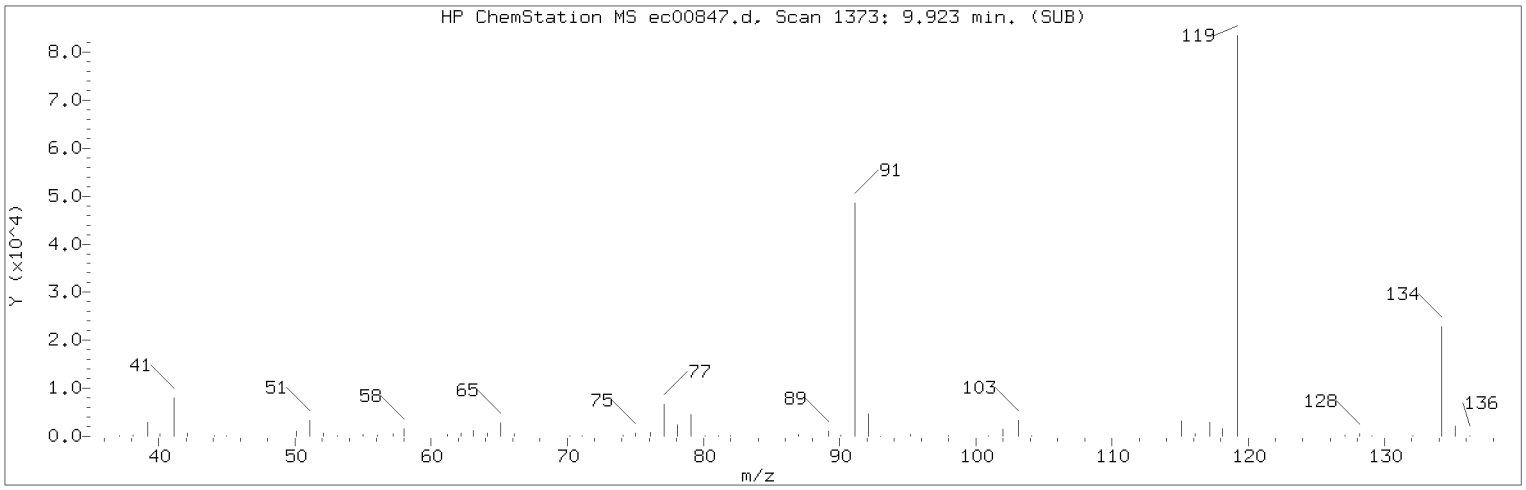
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 20:08 Unknown

Sample Name: VSTD001 Lab Sample ID: VSTD001

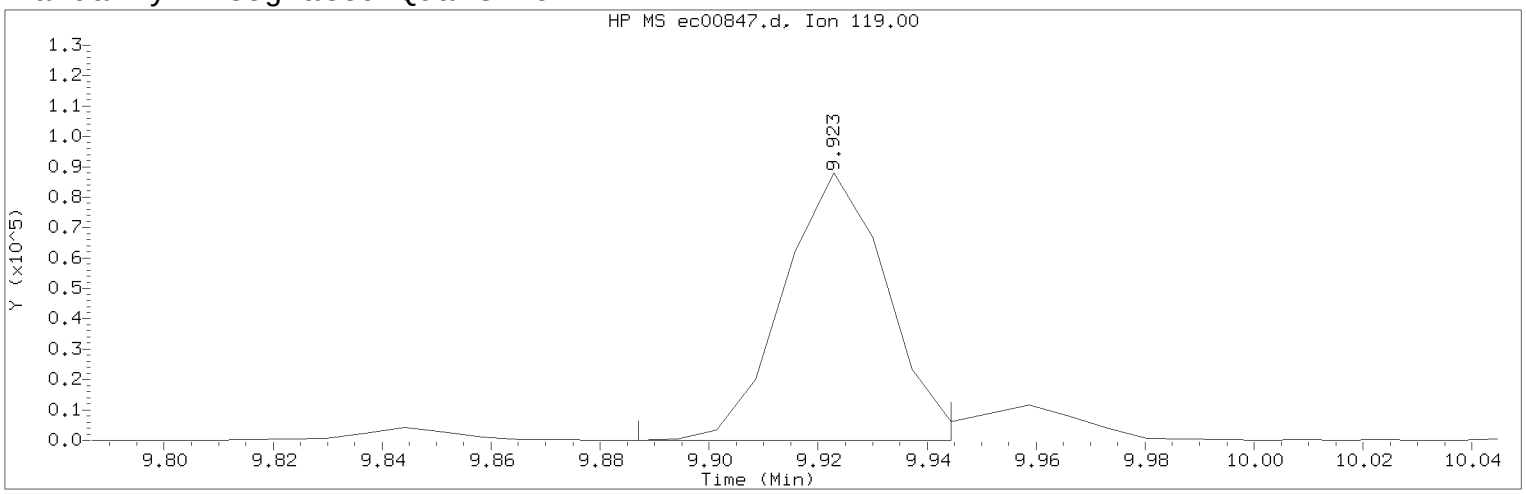
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 263135
Concentration (ppb(v)) : 1.6109
Integration start scan : 1325 Integration stop scan: 1345
Y at integration start : 0 Y at integration end: 0

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Target 3.5 esignature user ID: 218

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD001 Lab Sample ID: VSTD001

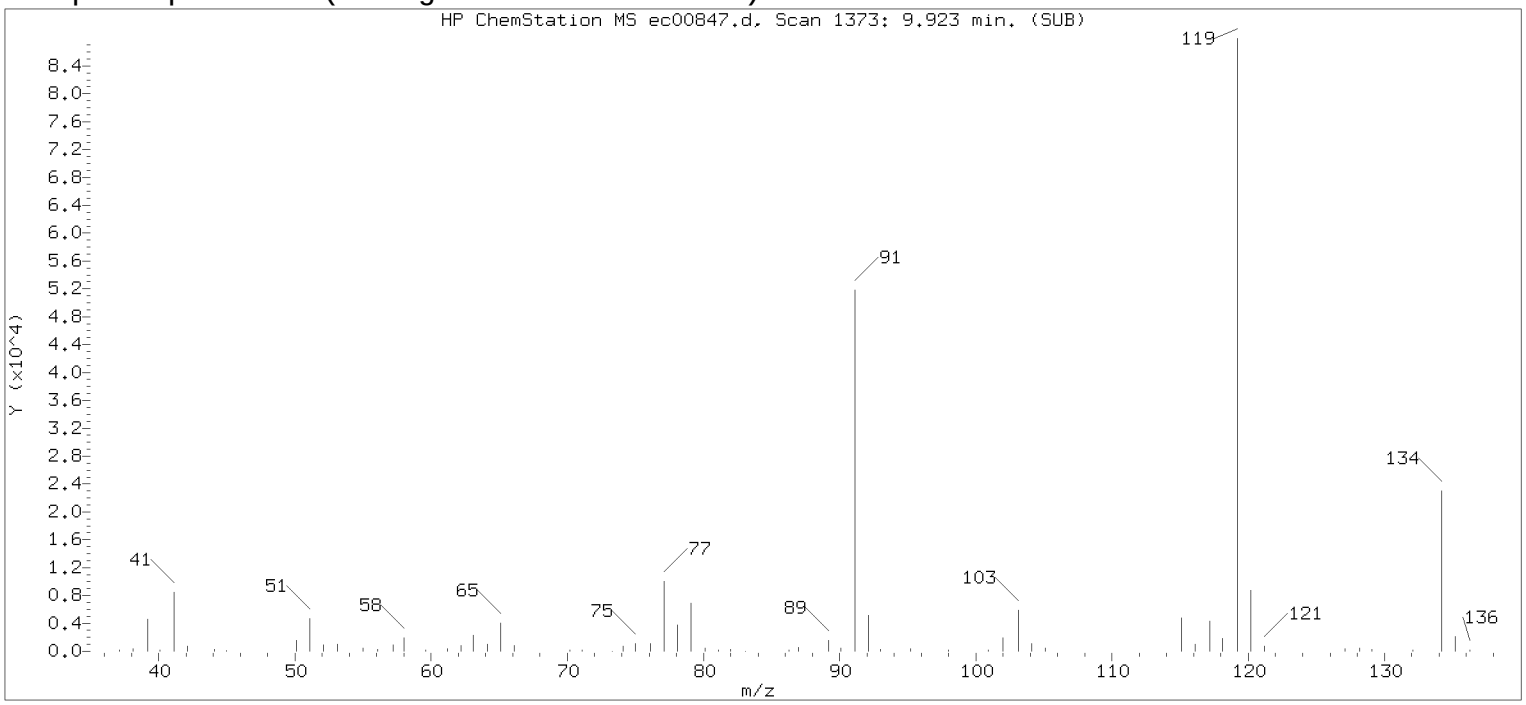
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area (flag) : 115882M
Concentration (ppb(v)) : 1.0000
Integration start scan : 1367 Integration stop scan: 1375
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

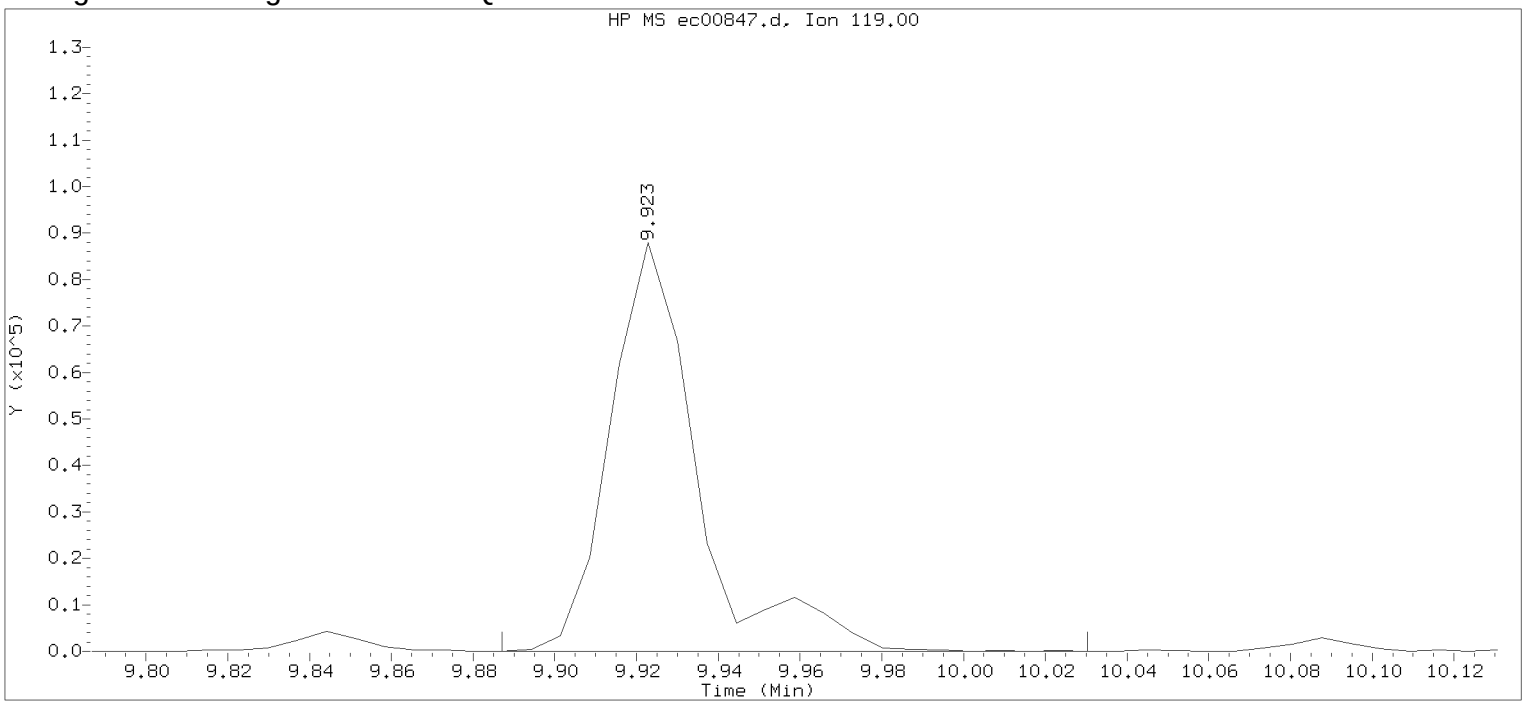
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



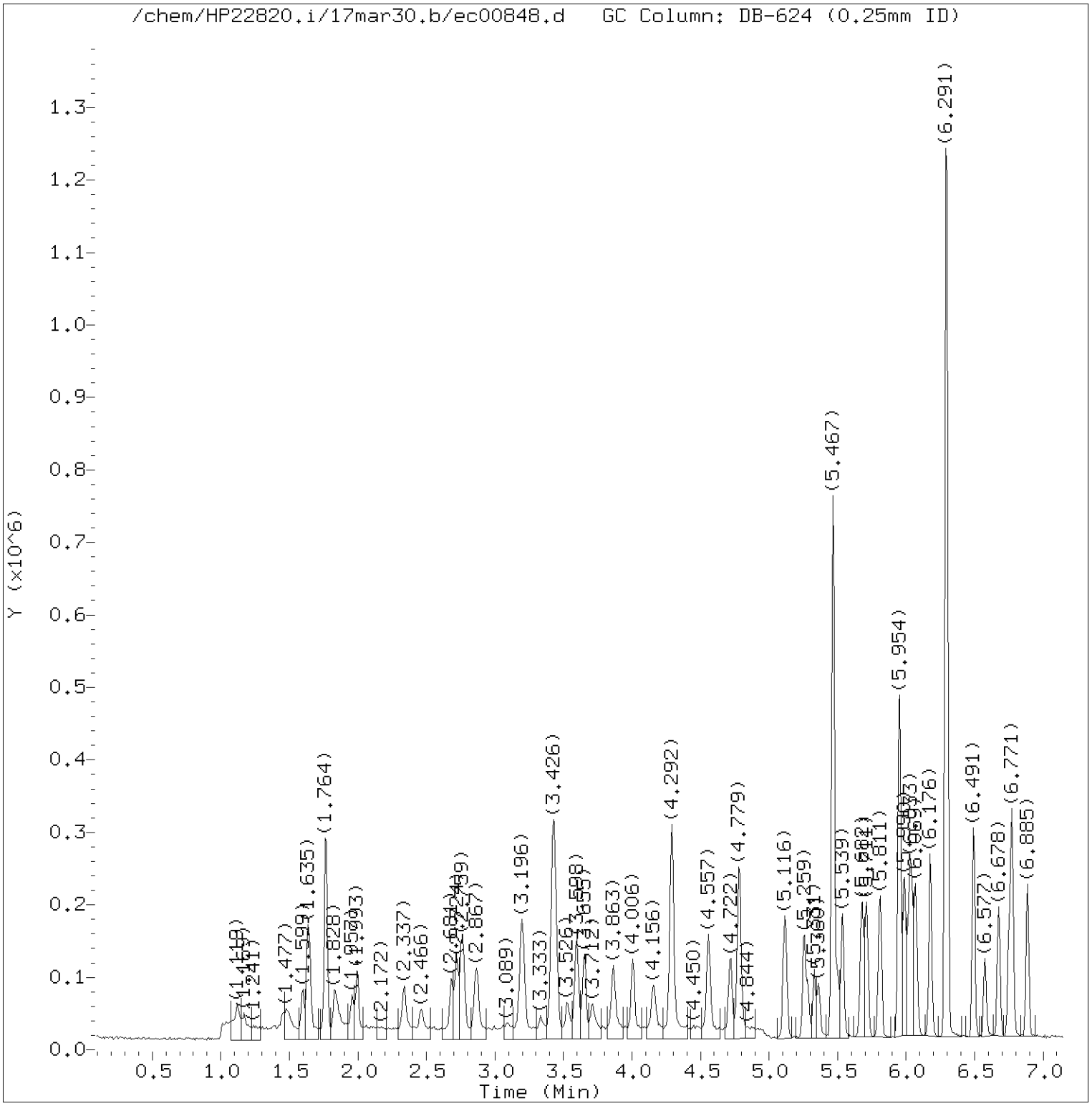
Data File: /chem/HP22820.i/17mar30.b/ec00847.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 19:49 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 20:08 Unknown

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area : 130583
Concentration (ppb(v)) : 0.7955
Integration start scan : 1367 Integration stop scan: 1387
Y at integration start : 0 Y at integration end: 0

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Target 3.5 esignature user ID: ADS



Total Ion Chromatogram (TIC)

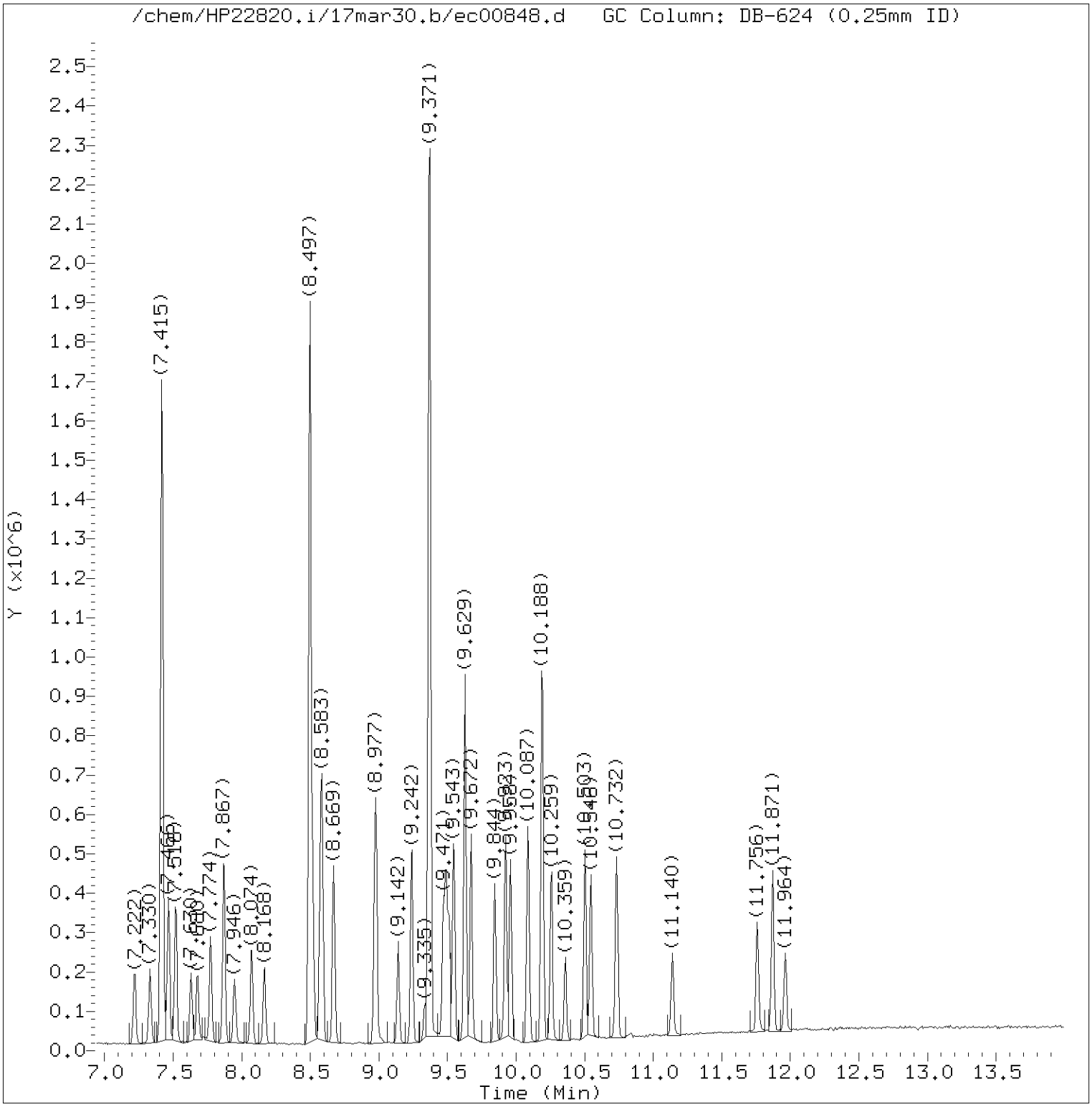
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD002 Lab Sample ID: VSTD002

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD002 Lab Sample ID: VSTD002

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.599	41	31088	1.991
2) Dichlorodifluoromethane	(1)	1.635	85	120148	2.073
3) Chlorodifluoromethane	(1)	1.649	51	62945	1.996
4) Freon 114	(1)	1.764	85	126027	2.053
5) Chloromethane	(1)	1.828	50	34224	1.900
6) Vinyl Chloride	(1)	1.957	62	46116	2.117
7) 1,3-Butadiene	(1)	1.993	54	34688	2.057
8) Bromomethane	(1)	2.344	94	46045	2.048
9) Chloroethane	(1)	2.459	64	24622	1.974
10) Bromoethene	(1)	2.681	106	49637	2.031
11) Dichlorofluoromethane	(1)	2.724	67	100382	2.068
12) Trichlorofluoromethane	(1)	2.767	101	128296	2.007
13) Pentane	(1)	2.867	43	68143	2.022
14) Ethanol	(1)	3.082	45	11445	1.977
15) Freon123a	(1)	3.196	67	97881	1.986
16) Acrolein	(1)	3.333	56	16745	2.025
17) 1,1-Dichloroethene	(1)	3.418	61	69675	2.054
18) Freon 113	(1)	3.440	103	78045	1.961
19) Acetone	(1)	3.533	43	56990	2.130
20) Methyl Iodide	(1)	3.598	142	153232	2.115
21) Carbon Disulfide	(1)	3.655	76	138425	2.090
22) Isopropanol	(1)	3.712	45	51597	2.244
24) 3-Chloropropene	(1)	3.863	76	23034	2.261
23) Acetonitrile	(1)	3.870	40	26130	1.856
25) Methylene Chloride	(1)	4.006	84	47056	2.383
26) tert-Butyl Alcohol	(1)	4.156	59	88905	2.248
28) trans-1,2-Dichloroethene	(1)	4.285	61	64676	2.080
29) Methyl t-Butyl Ether	(1)	4.292	73	142075	2.005
27) Acrylonitrile	(1)	4.300	53	37101	2.081
30) Hexane	(1)	4.557	57	68412	1.910
31) 1,1-Dichloroethane	(1)	4.722	63	85889	2.043
32) Vinyl Acetate	(1)	4.779	86	13048	2.511
33) Di-Isopropyl Ether	(1)	4.779	45	136510	1.983
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	140174	1.993
35) cis-1,2-Dichloroethene	(1)	5.259	61	62676	2.132
37) 2-Butanone	(1)	5.288	72	24575	2.083
38) Ethyl Acetate	(1)	5.331	70	13577	1.888
39) Methyl Acrylate	(1)	5.360	55	72324	2.029

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on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	247599	10.000
41) Tetrahydrofuran	(1)	5.503	42	47140	2.144
42) Chloroform	(1)	5.539	83	108516	2.062
43) 1,1,1-Trichloroethane	(1)	5.675	97	109906	2.018
44) Cyclohexane	(1)	5.711	56	76096	2.018
45) Carbon Tetrachloride	(1)	5.811	117	112874	1.984
46) Benzene	(2)	5.990	78	167401	2.007
47) 1,2-Dichloroethane	(2)	6.011	62	61776	2.027
48) Isooctane	(2)	6.033	57	227432	1.995
49) Tert-Amyl Methyl Ether	(2)	6.069	73	151222	2.038
50) Heptane	(2)	6.176	43	78834	1.999
51)*1,4-Difluorobenzene	(2)	6.298	114	923863	10.000
52) Trichloroethene	(2)	6.491	130	84486	2.016
53) Ethyl Acrylate	(2)	6.577	55	92677	1.996
36) 1,2-Dichloroethene (total)	(1)		61	127352	4.213
54) 1,2-Dichloropropane	(2)	6.678	63	58440	2.016
57) Methyl Methacrylate	(2)	6.749	69	53899	1.939
55) Dibromomethane	(2)	6.771	174	84685	2.080
56) 1,4-Dioxane	(2)	6.778	88	38657	1.993
58) Bromodichloromethane	(2)	6.885	83	106099	2.022
59) cis-1,3-Dichloropropene	(2)	7.215	75	91313	1.958
60) 4-Methyl-2-Pentanone	(2)	7.330	43	96474	2.008
61) Toluene	(3)	7.466	91	218635	1.941
62) Octane	(3)	7.516	43	104521	1.912
63) trans-1,3-Dichloropropene	(3)	7.630	75	78142	1.965
65) Ethyl Methacrylate	(3)	7.673	69	82961	1.919
66) 1,1,2-Trichloroethane	(3)	7.774	97	69590	1.958
67) Tetrachloroethene	(3)	7.874	166	125734	1.971
68) 2-Hexanone	(3)	7.946	43	85523	1.919
69) Dibromochloromethane	(3)	8.074	127	84358	1.976
70) 1,2-Dibromoethane	(3)	8.168	107	107322	1.988
71)*Chlorobenzene-d5	(3)	8.497	117	896034	10.000
72) Chlorobenzene	(3)	8.519	112	184592	1.959
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	86539	1.976
74) Ethylbenzene	(3)	8.583	91	277008	1.979
75) m/p-Xylene	(3)	8.669	91	220187	1.969
76) o-Xylene	(3)	8.970	91	208558	1.952
78) Styrene	(3)	8.984	104	153536	1.996

* = Compound is an internal standard.

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Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

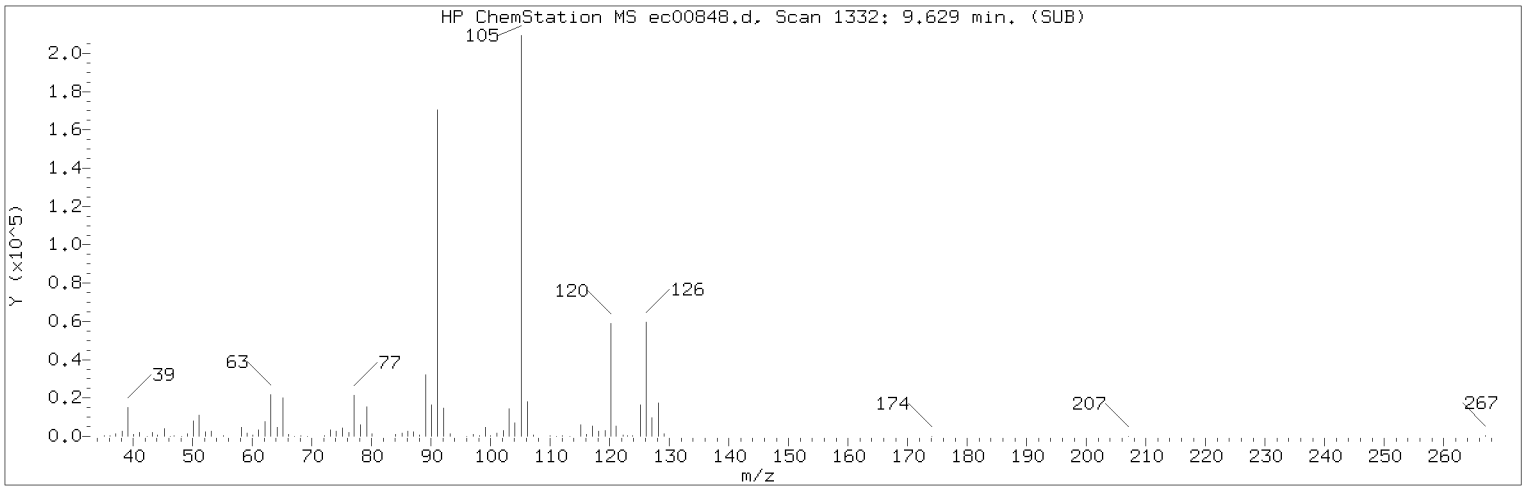
Sample Name: VSTD002 Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	99608	1.990
80) Cumene	(3)	9.242	105	291738	1.973
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	129954	1.954
81) Bromobenzene	(3)	9.493	156	108765	1.976
83) 1,2,3-Trichloropropane	(3)	9.514	110	44730	1.929
84) n-Propylbenzene	(3)	9.550	120	86428	1.945
86) 4-Ethyltoluene	(3)	9.629	105	278542M	1.952
85) 2-Chlorotoluene	(3)	9.629	126	78590	1.973
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	235970M	1.968
88) Alpha Methyl Styrene	(3)	9.844	118	107233	1.973
89) tert-Butylbenzene	(3)	9.923	119	235831M	2.010
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	221490	1.966
91) sec-Butylbenzene	(3)	10.087	105	327586	1.997
94) p-Isopropyltoluene	(3)	10.188	119	271260	1.974
92) 1,3-Dichlorobenzene	(3)	10.195	146	165909	1.939
93) 1,4-Dichlorobenzene	(3)	10.259	146	172430	1.974
95) Benzyl Chloride	(3)	10.359	91	129937	1.929
97) n-Butylbenzene	(3)	10.503	91	215605	1.927
96) 1,2-Dichlorobenzene	(3)	10.546	146	148019	1.946
98) Hexachloroethane	(3)	10.732	117	56637	1.999
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	51805	2.021
100) 1,2,4-Trichlorobenzene	(3)	11.756	180	81530	1.942
101) Hexachlorobutadiene	(3)	11.871	225	75185	1.996
102) Naphthalene	(3)	11.964	128	141761	1.945
64) 1,3-Dichloropropene (total)	(3)		75	169455	3.903
77) Xylene (total)	(3)		91	428745	3.921

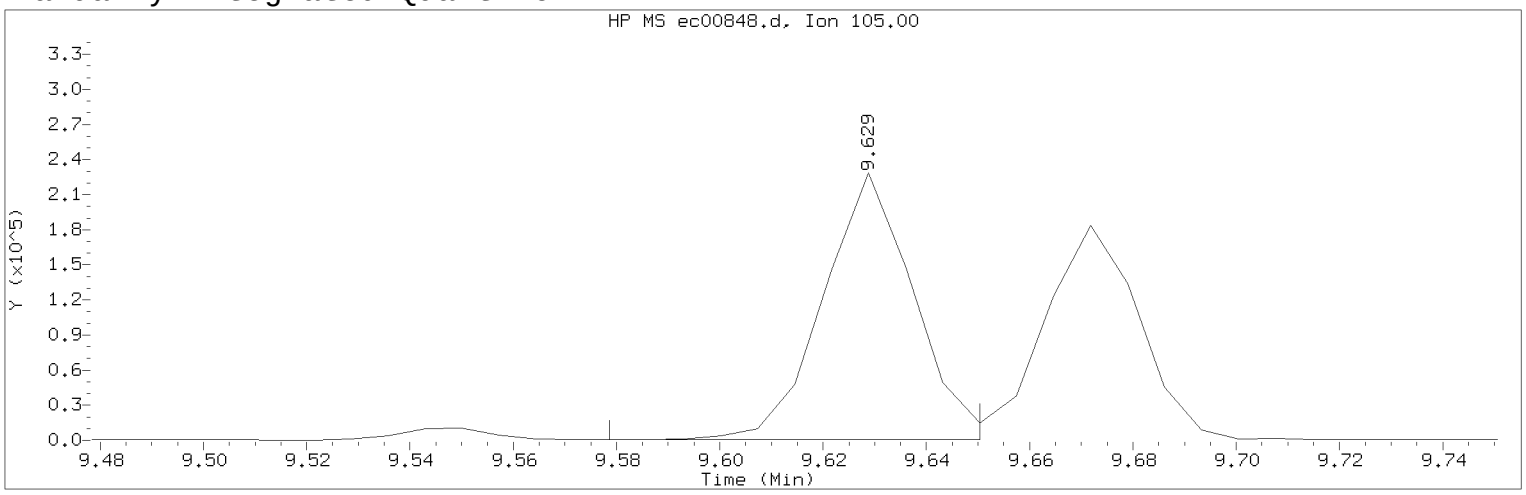
M = Compound was manually integrated.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD002 Lab Sample ID: VSTD002

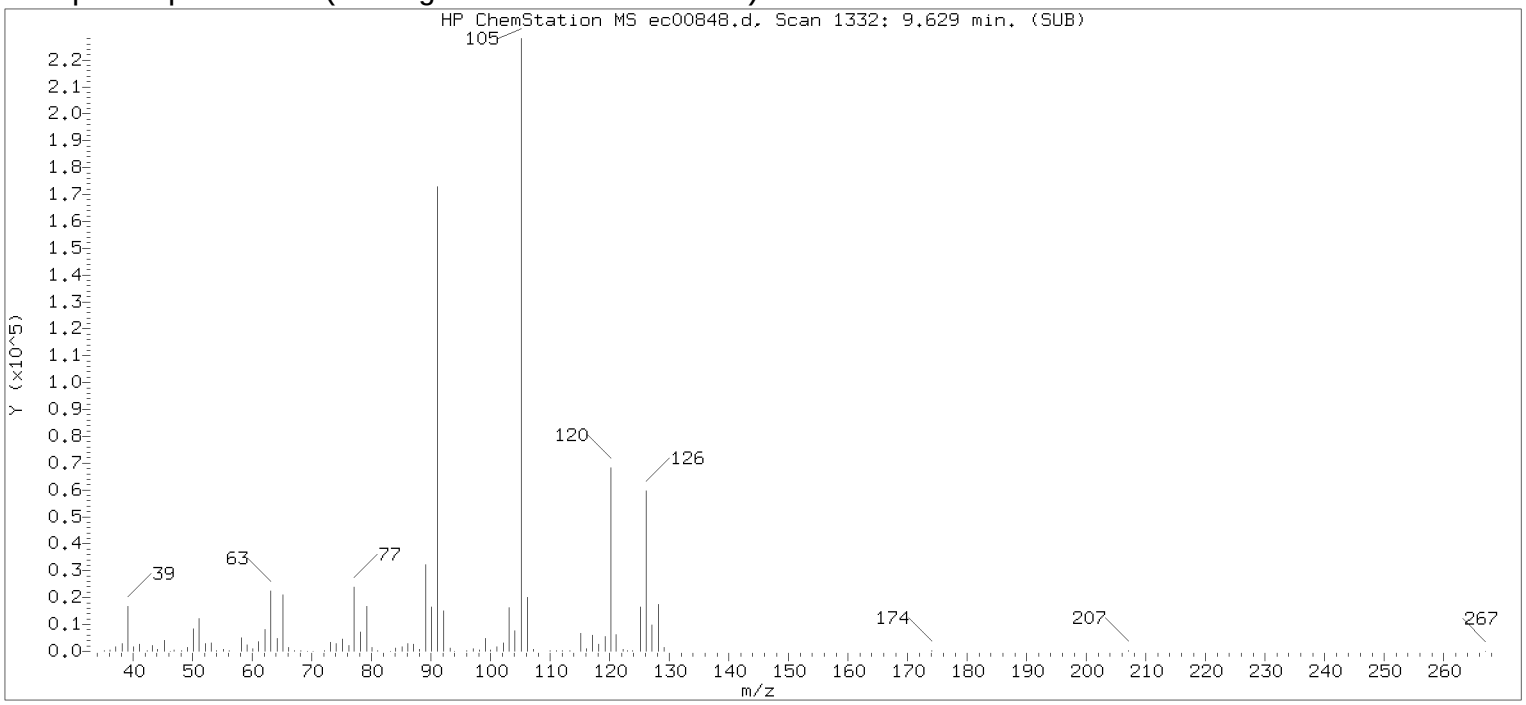
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 278542M
Concentration (ppb(v)) : 1.9519
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 335 Y at integration end: 335

Reason for manual integration: improper integration

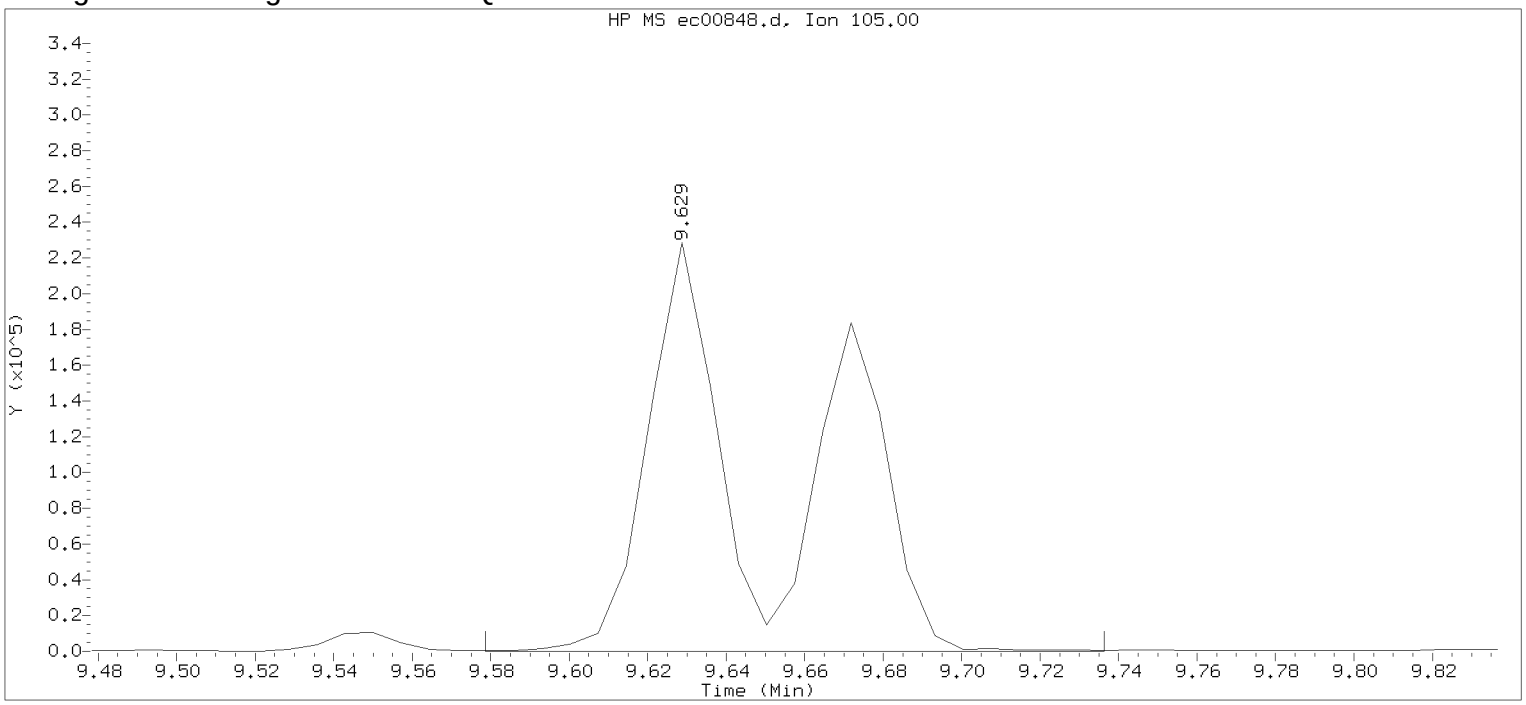
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

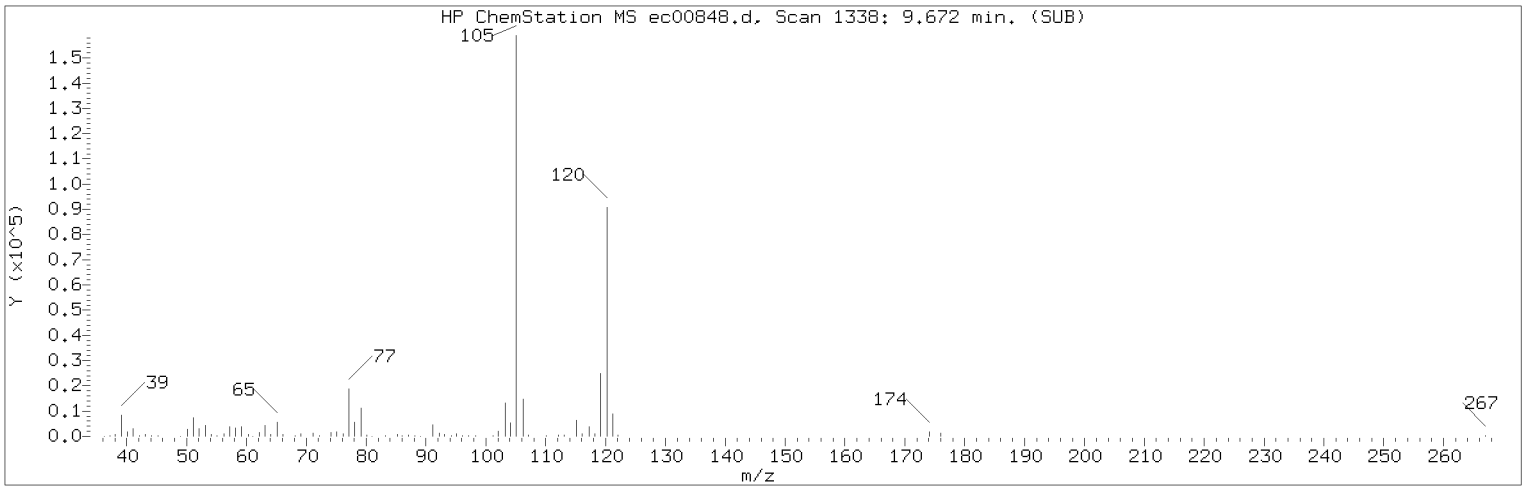
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 20:34 Unknown

Sample Name: VSTD002 Lab Sample ID: VSTD002

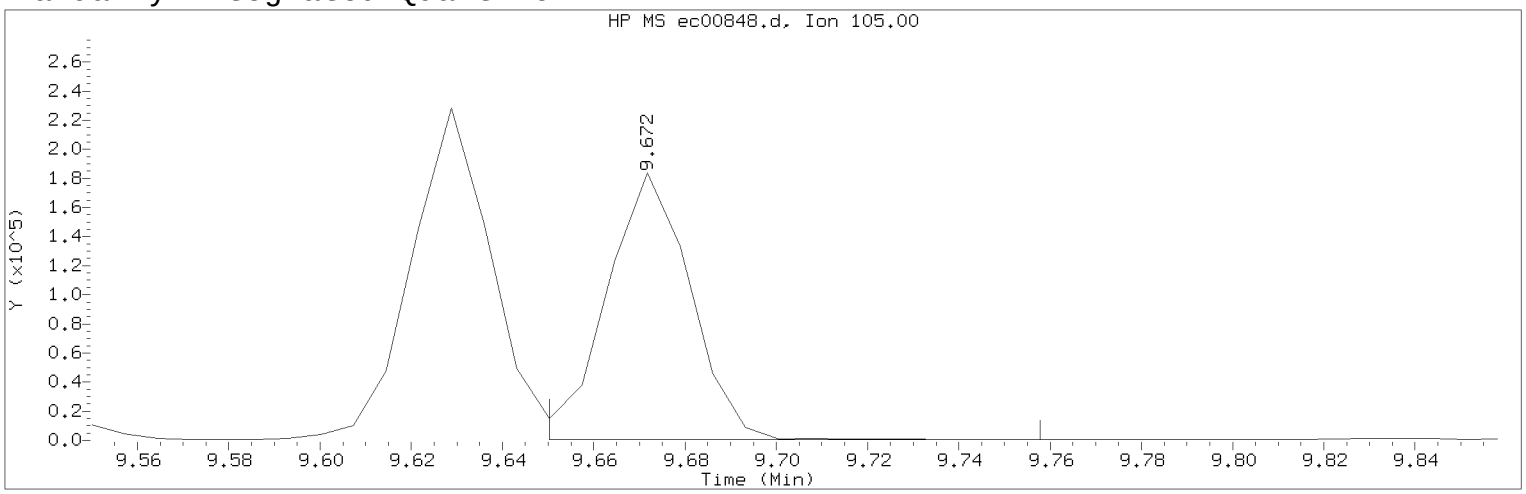
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 511377
Concentration (ppb(v)) : 2.5783
Integration start scan : 1324 Integration stop scan: 1346
Y at integration start : 0 Y at integration end: 0

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD002 Lab Sample ID: VSTD002

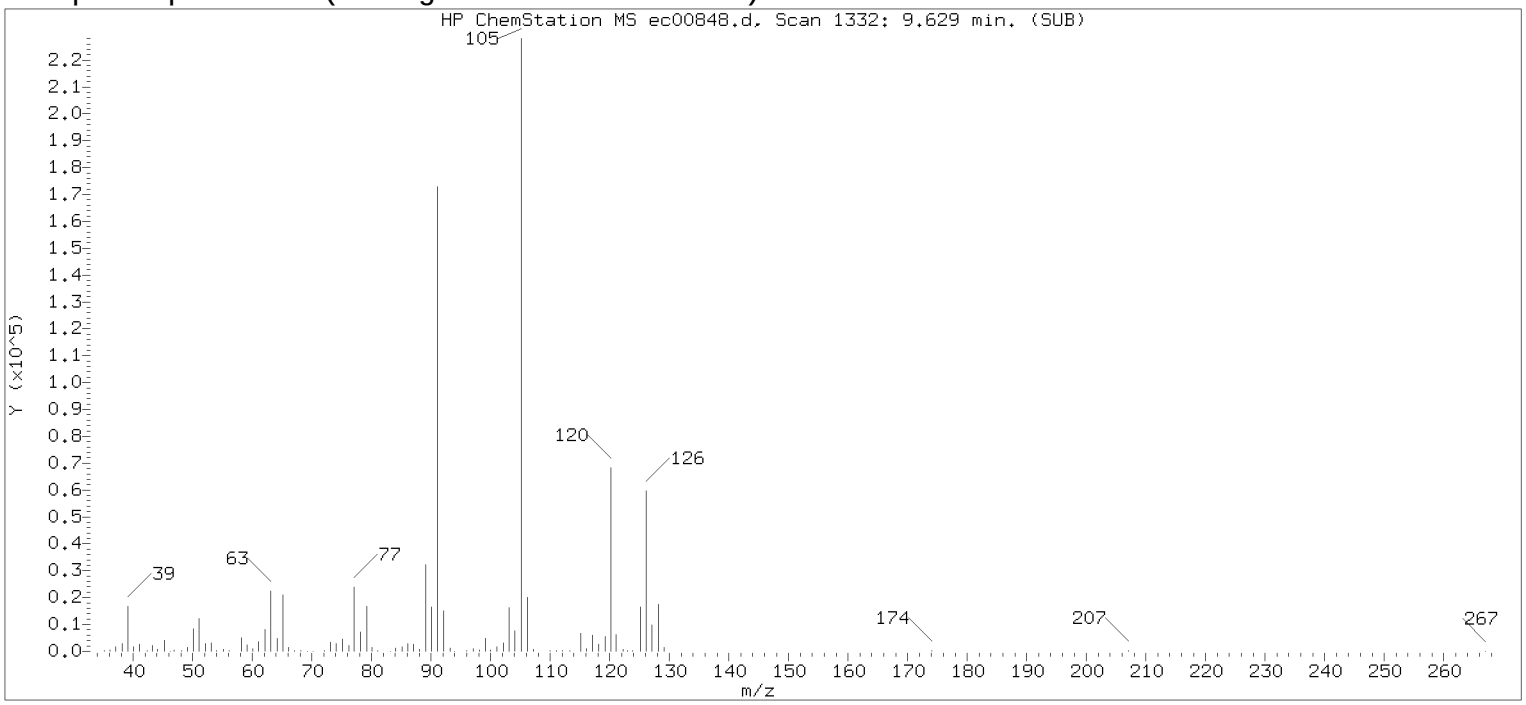
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 235970M
Concentration (ppb(v)) : 1.9683
Integration start scan : 1334 Integration stop scan: 1349
Y at integration start : 374 Y at integration end: 374

Reason for manual integration: improper integration

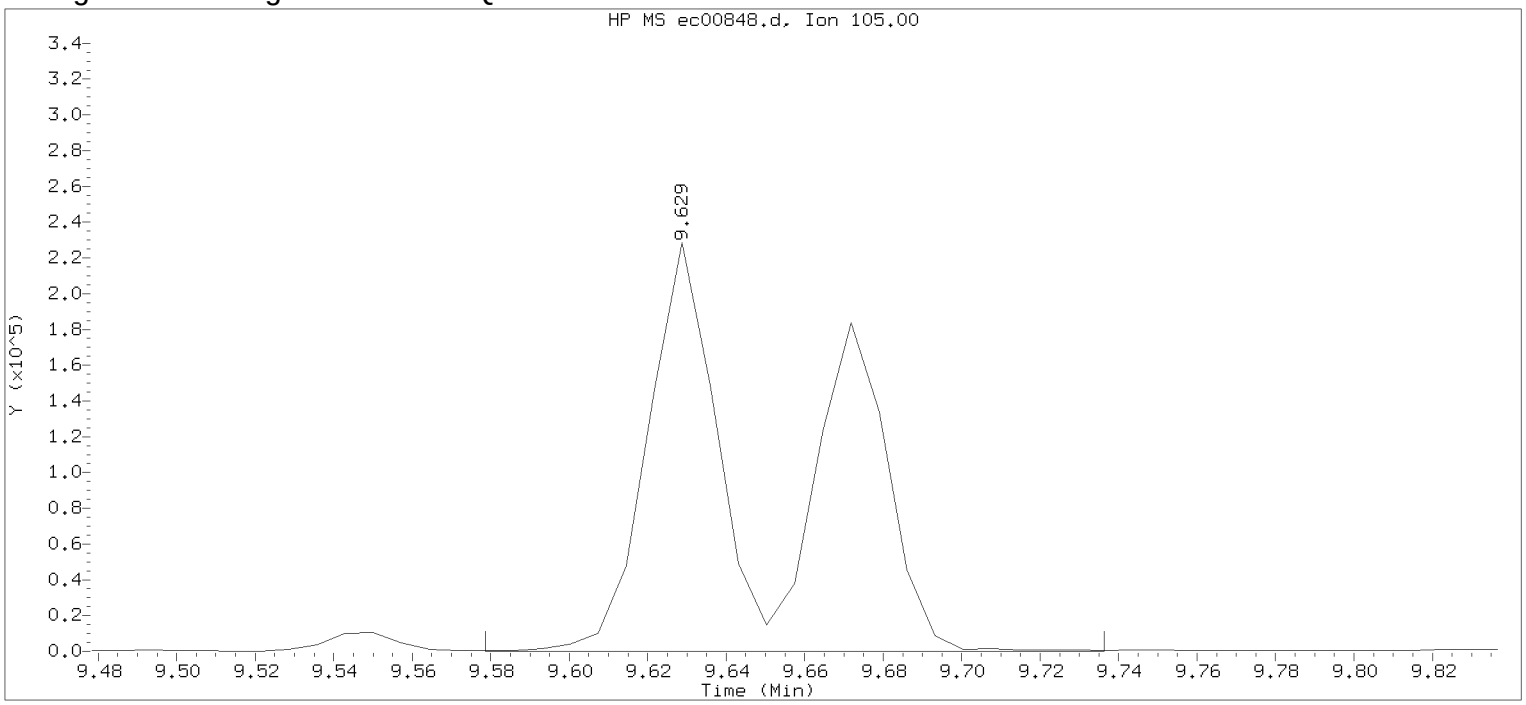
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

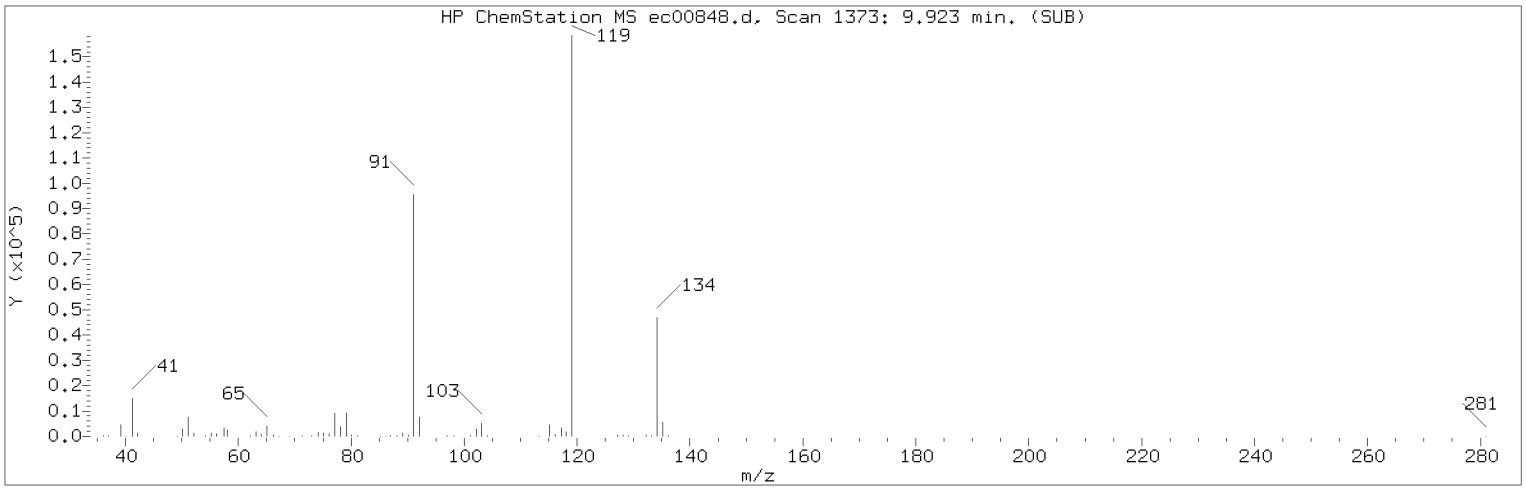
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 20:34 Unknown

Sample Name: VSTD002 Lab Sample ID: VSTD002

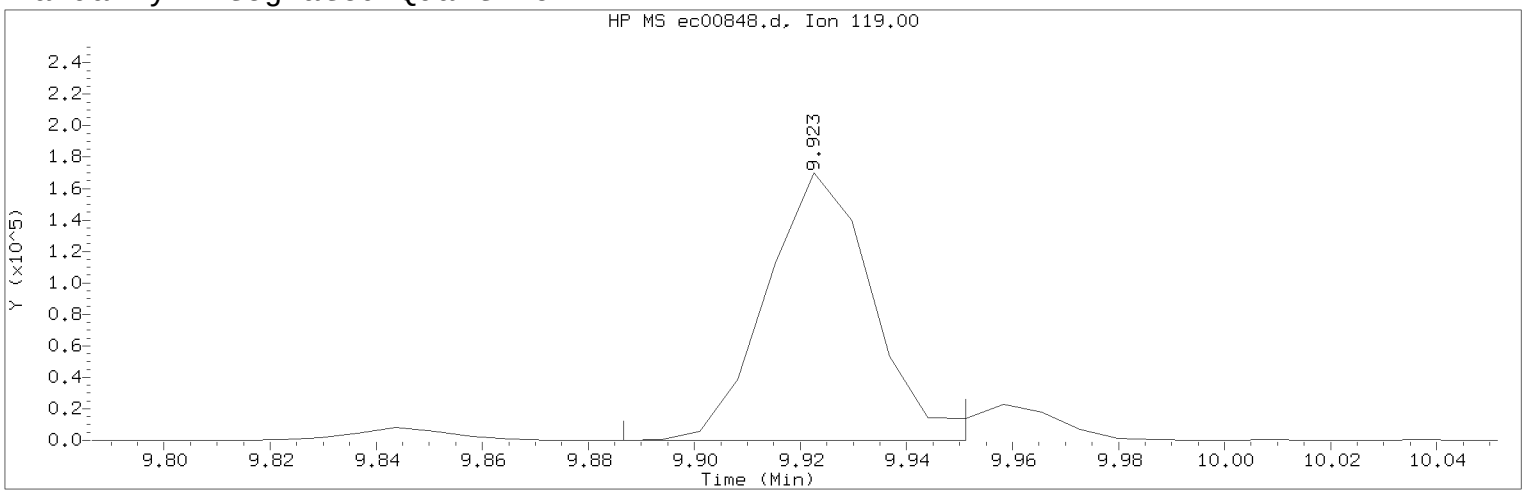
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 509978
Concentration (ppb(v)) : 3.1000
Integration start scan : 1324 Integration stop scan: 1346
Y at integration start : 151 Y at integration end: 151

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD002 Lab Sample ID: VSTD002

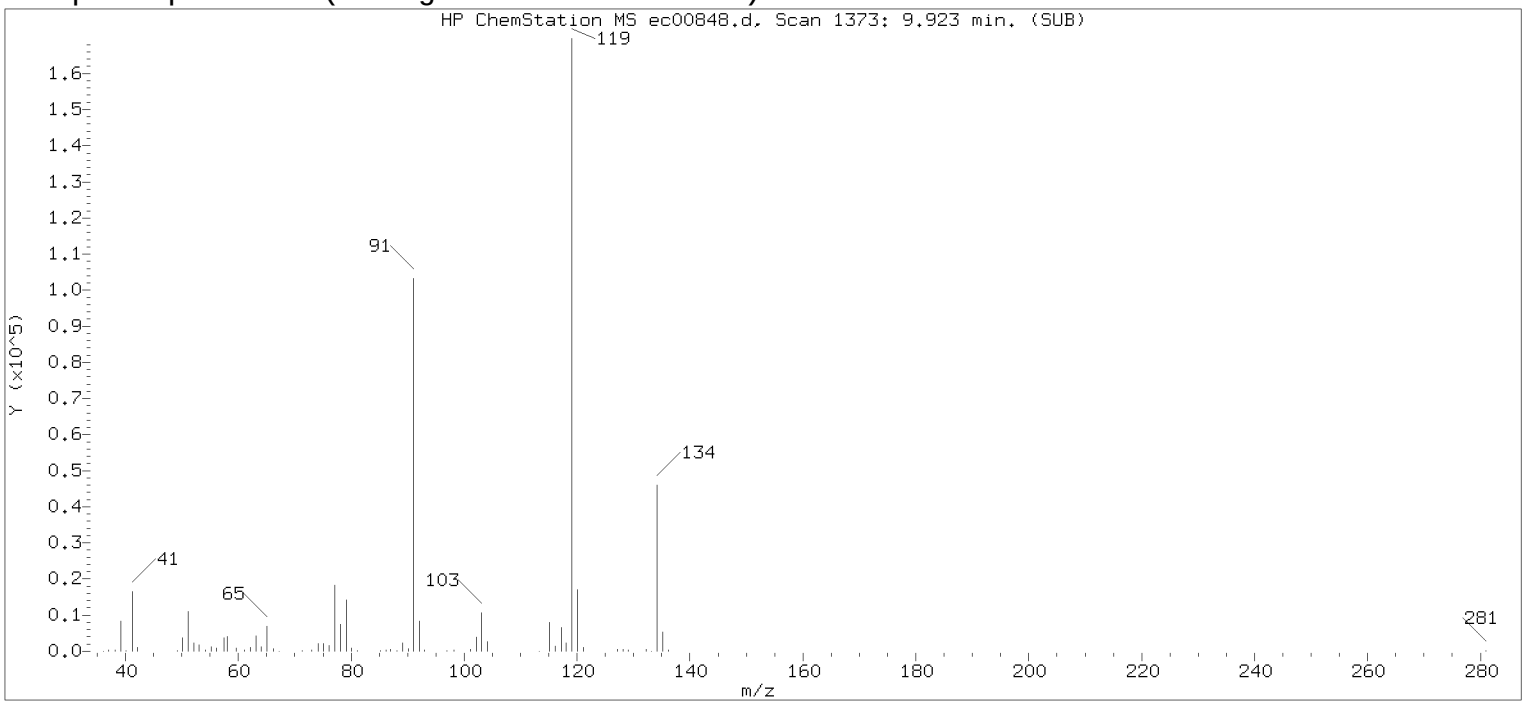
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area (flag) : 235831M
Concentration (ppb(v)) : 2.0103
Integration start scan : 1367 Integration stop scan: 1376
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

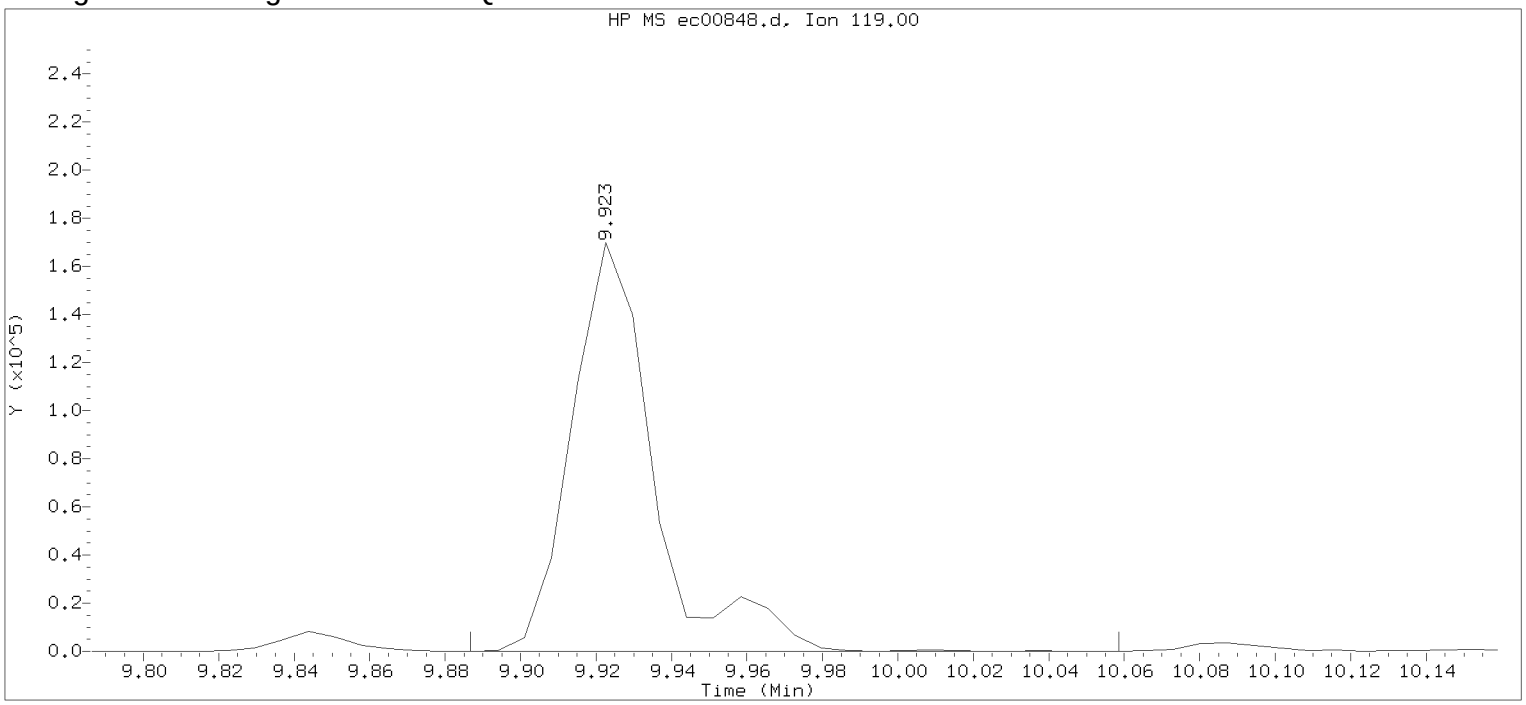
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



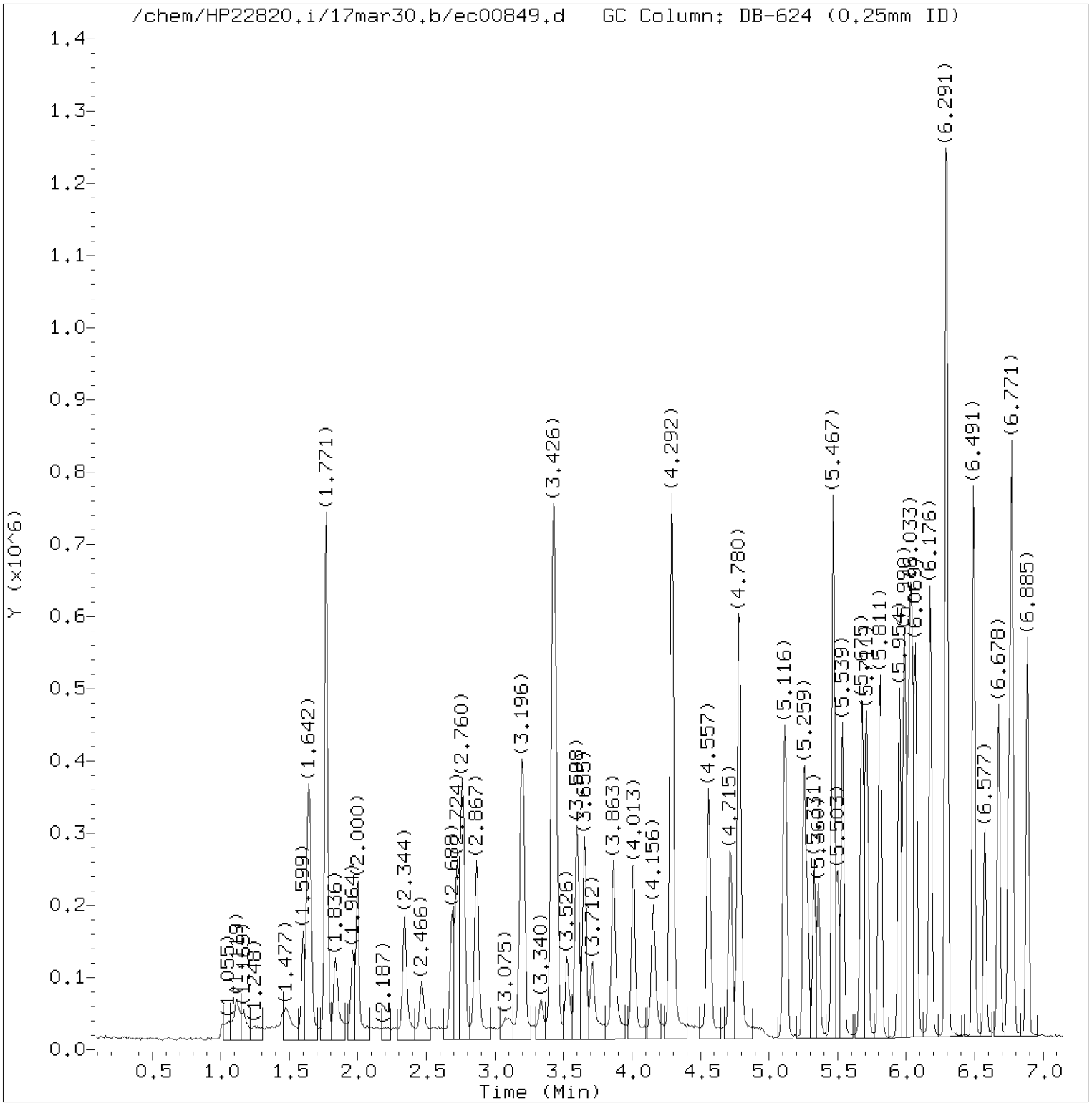
Data File: /chem/HP22820.i/17mar30.b/ec00848.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:15 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 20:34 Unknown

Sample Name: VSTD002 Lab Sample ID: VSTD002

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area : 257385
Concentration (ppb(v)) : 1.5568
Integration start scan : 1367 Integration stop scan: 1391
Y at integration start : 0 Y at integration end: 0

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Target 3.5 esignature user VER01a Page 232 of 407



Total Ion Chromatogram (TIC)

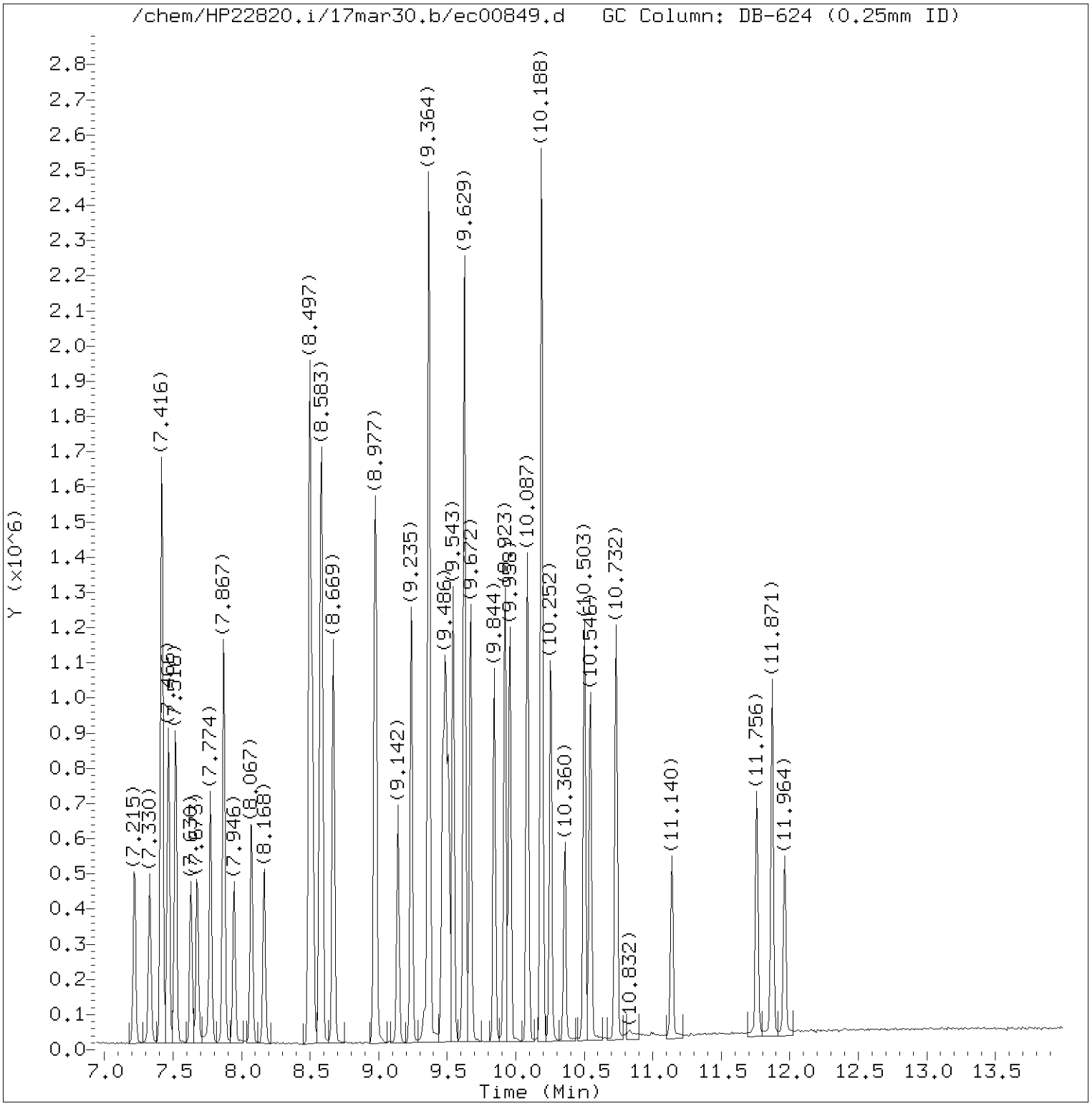
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

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on 03/31/2017 at 09:05.
Target 3.5 esignature user ID: ads07818



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.599	41	76692	5.058
2) Dichlorodifluoromethane	(1)	1.635	85	314043	5.392
3) Chlorodifluoromethane	(1)	1.656	51	159490	5.156
4) Freon 114	(1)	1.771	85	332469	5.391
5) Chloromethane	(1)	1.836	50	85097	4.929
6) Vinyl Chloride	(1)	1.964	62	119810	5.444
7) 1,3-Butadiene	(1)	2.000	54	84053	5.108
8) Bromomethane	(1)	2.344	94	121227	5.375
9) Chloroethane	(1)	2.466	64	65261	5.272
10) Bromoethene	(1)	2.688	106	130646	5.346
11) Dichlorofluoromethane	(1)	2.724	67	256427	5.305
12) Trichlorofluoromethane	(1)	2.767	101	336449	5.293
13) Pentane	(1)	2.867	43	177099	5.288
14) Ethanol	(1)	3.075	45	23643	4.459
15) Freon123a	(1)	3.196	67	243550	5.078
16) Acrolein	(1)	3.333	56	45842	5.472
17) 1,1-Dichloroethene	(1)	3.419	61	179880	5.319
18) Freon 113	(1)	3.433	103	191619	4.992
19) Acetone	(1)	3.526	43	138260	5.229
20) Methyl Iodide	(1)	3.598	142	359661	5.093
21) Carbon Disulfide	(1)	3.655	76	362429	5.427
22) Isopropanol	(1)	3.712	45	138247	6.023
24) 3-Chloropropene	(1)	3.863	76	59056	5.864
23) Acetonitrile	(1)	3.870	40	65884	4.898
25) Methylene Chloride	(1)	4.013	84	121605	6.097
26) tert-Butyl Alcohol	(1)	4.156	59	222792	5.755
28) trans-1,2-Dichloroethene	(1)	4.285	61	169923	5.423
29) Methyl t-Butyl Ether	(1)	4.292	73	363664	5.207
27) Acrylonitrile	(1)	4.300	53	91398	5.204
30) Hexane	(1)	4.557	57	179601	5.127
31) 1,1-Dichloroethane	(1)	4.715	63	218430	5.248
33) Di-Isopropyl Ether	(1)	4.780	45	343807	5.114
32) Vinyl Acetate	(1)	4.787	86	33461	6.292
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	364705	5.242
35) cis-1,2-Dichloroethene	(1)	5.252	61	163597	5.485
37) 2-Butanone	(1)	5.281	72	62356	5.307
38) Ethyl Acetate	(1)	5.331	70	34069	4.937
39) Methyl Acrylate	(1)	5.360	55	186448	5.272

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	239020	10.000
41) Tetrahydrofuran	(1)	5.503	42	112006	5.182
42) Chloroform	(1)	5.539	83	284332	5.383
43) 1,1,1-Trichloroethane	(1)	5.675	97	275017	5.152
44) Cyclohexane	(1)	5.711	56	185565	5.065
45) Carbon Tetrachloride	(1)	5.811	117	274789	5.003
46) Benzene	(2)	5.990	78	430049	5.100
47) 1,2-Dichloroethane	(2)	6.012	62	168242	5.333
48) Isooctane	(2)	6.040	57	588183	5.102
49) Tert-Amyl Methyl Ether	(2)	6.069	73	382938	5.103
50) Heptane	(2)	6.176	43	191327	4.897
51)*1,4-Difluorobenzene	(2)	6.298	114	924716	10.000
52) Trichloroethene	(2)	6.491	130	220118	5.162
53) Ethyl Acrylate	(2)	6.577	55	234127	5.025
36) 1,2-Dichloroethene (total)	(1)		61	333520	10.908
54) 1,2-Dichloropropane	(2)	6.678	63	146559	5.033
57) Methyl Methacrylate	(2)	6.749	69	135968	4.923
55) Dibromomethane	(2)	6.771	174	212568	5.141
56) 1,4-Dioxane	(2)	6.778	88	99499	5.083
58) Bromodichloromethane	(2)	6.885	83	269288	5.084
59) cis-1,3-Dichloropropene	(2)	7.215	75	238669	5.075
60) 4-Methyl-2-Pentanone	(2)	7.330	43	241536	5.016
61) Toluene	(3)	7.466	91	530640	4.770
62) Octane	(3)	7.516	43	271051	4.938
63) trans-1,3-Dichloropropene	(3)	7.630	75	199499	4.977
65) Ethyl Methacrylate	(3)	7.673	69	220439	5.031
66) 1,1,2-Trichloroethane	(3)	7.774	97	177113	4.955
67) Tetrachloroethene	(3)	7.867	166	314161	4.915
68) 2-Hexanone	(3)	7.946	43	219639	4.919
69) Dibromochloromethane	(3)	8.075	127	222647	5.106
70) 1,2-Dibromoethane	(3)	8.168	107	277709	5.061
71)*Chlorobenzene-d5	(3)	8.497	117	905228	10.000
72) Chlorobenzene	(3)	8.519	112	448091	4.801
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	220288	4.987
74) Ethylbenzene	(3)	8.583	91	684479	4.893
75) m/p-Xylene	(3)	8.669	91	536772	4.831
76) o-Xylene	(3)	8.970	91	514125	4.839
78) Styrene	(3)	8.984	104	388360	4.998

* = Compound is an internal standard.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

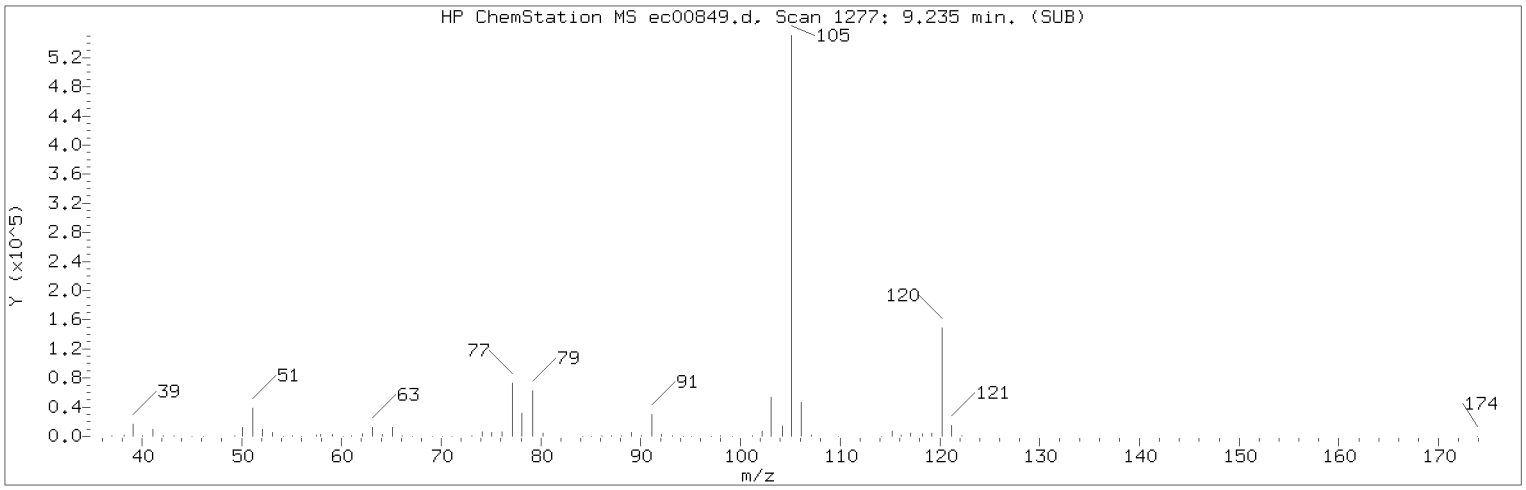
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	258074	5.069
80) Cumene	(3)	9.235	105	730828M	4.928
82) 1,1,2,2-Tetrachloroethane	(3)	9.464	83	327153	4.912
81) Bromobenzene	(3)	9.493	156	274076	4.952
83) 1,2,3-Trichloropropane	(3)	9.507	110	113483	4.895
84) n-Propylbenzene	(3)	9.543	120	213696	4.838
85) 2-Chlorotoluene	(3)	9.622	126	194225	4.882
86) 4-Ethyltoluene	(3)	9.629	105	715863M	4.977
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	576438M	4.837
88) Alpha Methyl Styrene	(3)	9.844	118	274494	4.999
89) tert-Butylbenzene	(3)	9.923	119	583814M	4.950
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	555899	4.922
91) sec-Butylbenzene	(3)	10.087	105	819430	4.963
92) 1,3-Dichlorobenzene	(3)	10.188	146	411991	4.841
94) p-Isopropyltoluene	(3)	10.188	119	682865	4.945
93) 1,4-Dichlorobenzene	(3)	10.252	146	416122	4.806
95) Benzyl Chloride	(3)	10.360	91	346539	5.061
97) n-Butylbenzene	(3)	10.503	91	562592	4.985
96) 1,2-Dichlorobenzene	(3)	10.546	146	370551	4.881
98) Hexachloroethane	(3)	10.732	117	151660	5.195
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	133687	5.108
100) 1,2,4-Trichlorobenzene	(3)	11.756	180	206393	4.910
101) Hexachlorobutadiene	(3)	11.871	225	183654	4.883
102) Naphthalene	(3)	11.964	128	362861	4.952
64) 1,3-Dichloropropene (total)	(3)		75	438168	9.994
77) Xylene (total)	(3)		91	1050897	9.669

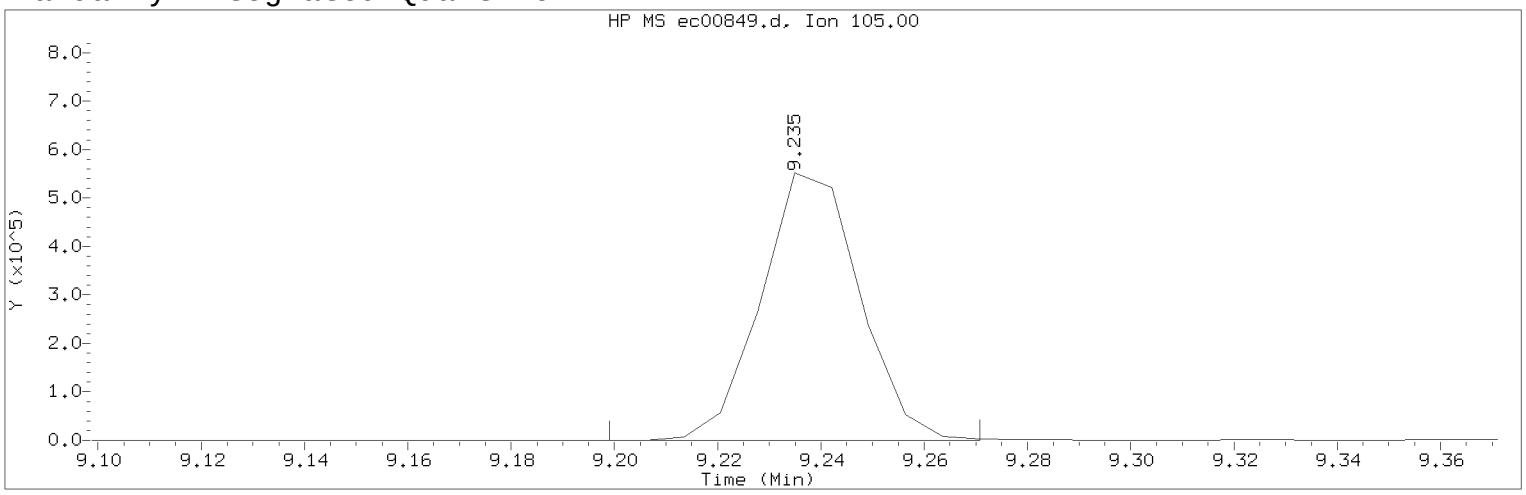
M = Compound was manually integrated.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

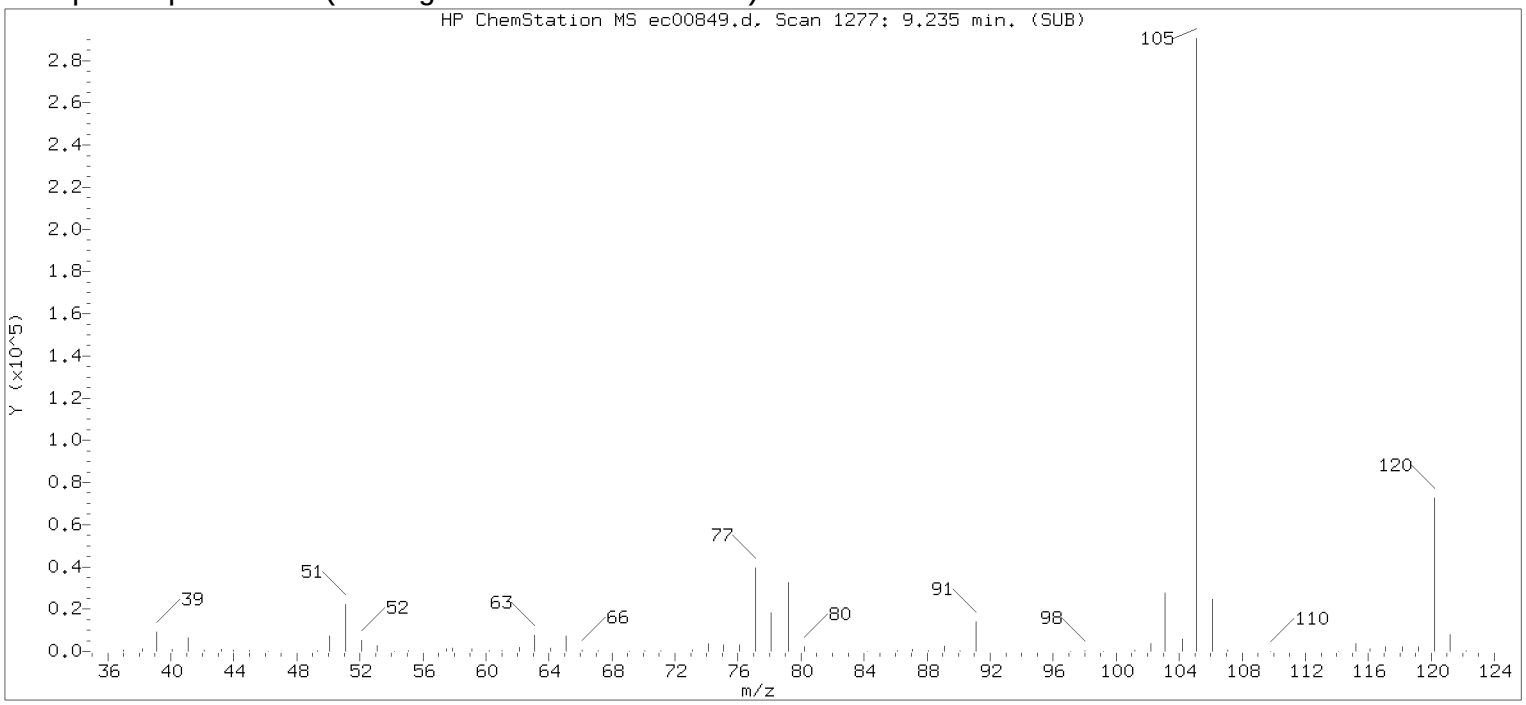
Compound Number : 80
Compound Name : Cumene
Scan Number : 1277
Retention Time (minutes): 9.235
Quant Ion : 105.00
Area (flag) : 730828M
Concentration (ppb(v)) : 4.9280
Integration start scan : 1271 Integration stop scan: 1281
Y at integration start : 152 Y at integration end: 152

Reason for manual integration: improper integration

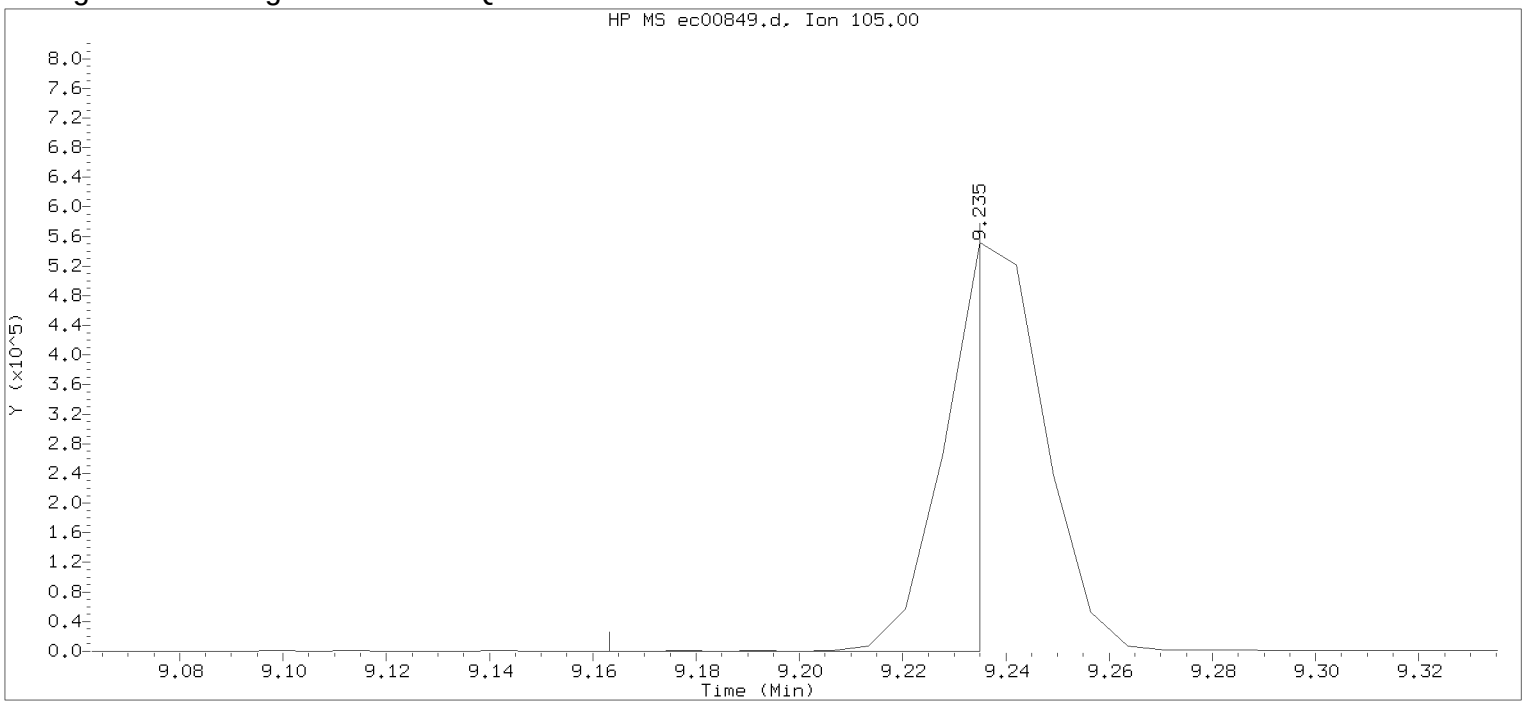
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

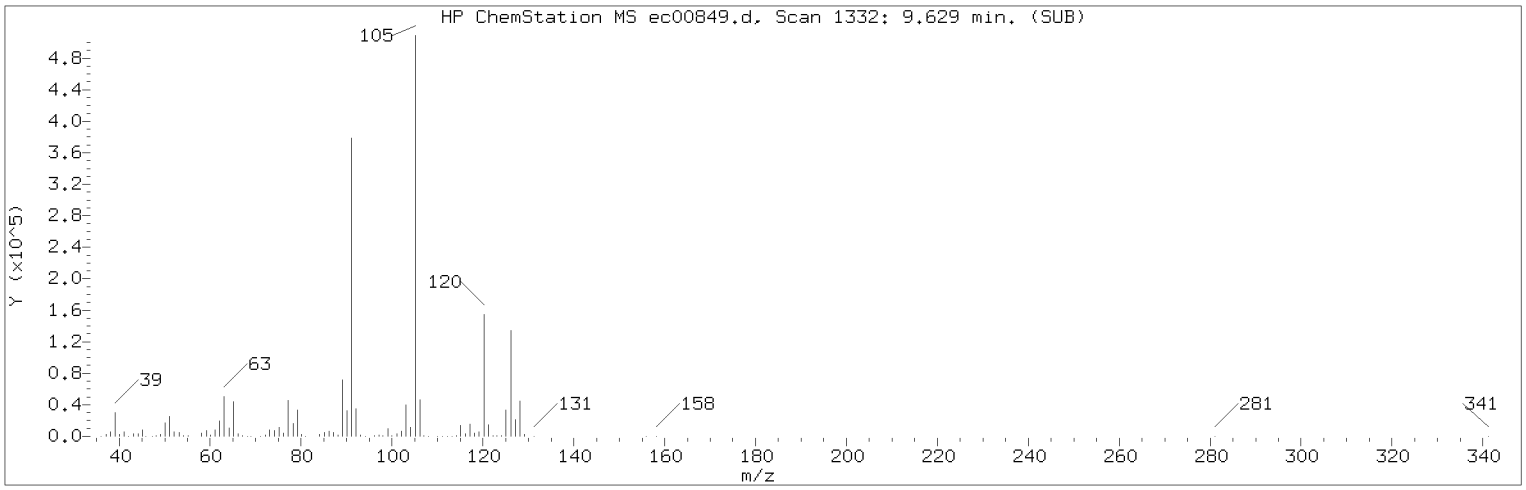
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 21:01 Unknown

Sample Name: VSTD005 Lab Sample ID: VSTD005

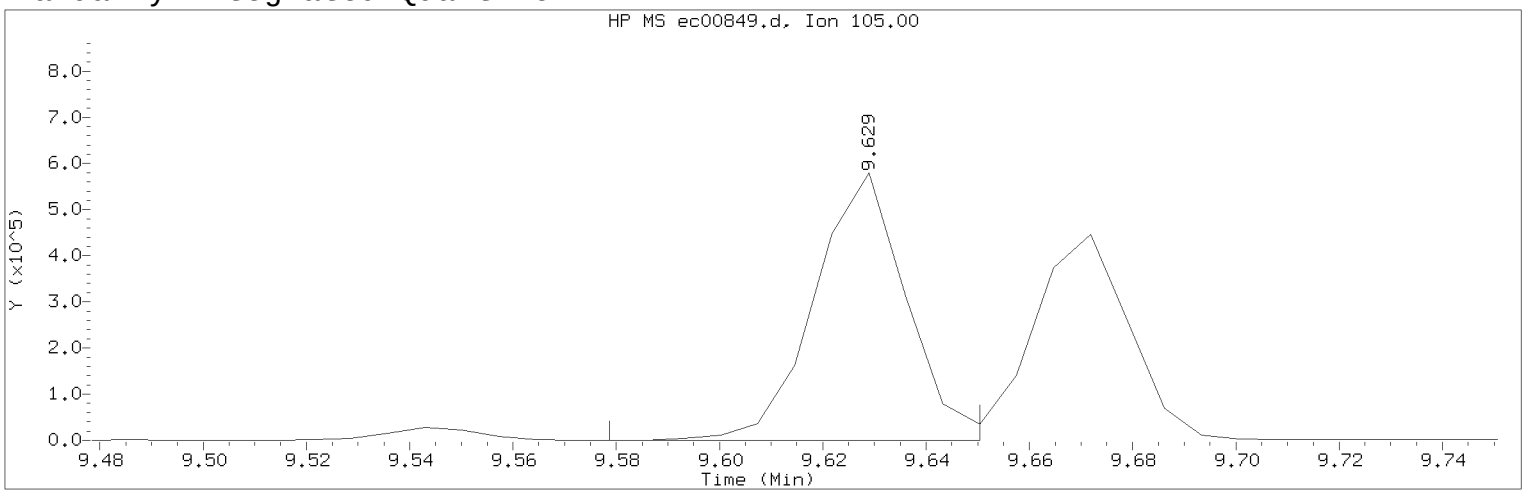
Compound Number : 80
Compound Name : Cumene
Scan Number : 1277
Retention Time (minutes): 9.235
Quant Ion : 105.00
Area : 260289
Concentration (ppb(v)) : 1.2779
Integration start scan : 1266 Integration stop scan: 1276
Y at integration start : 154 Y at integration end: 154

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

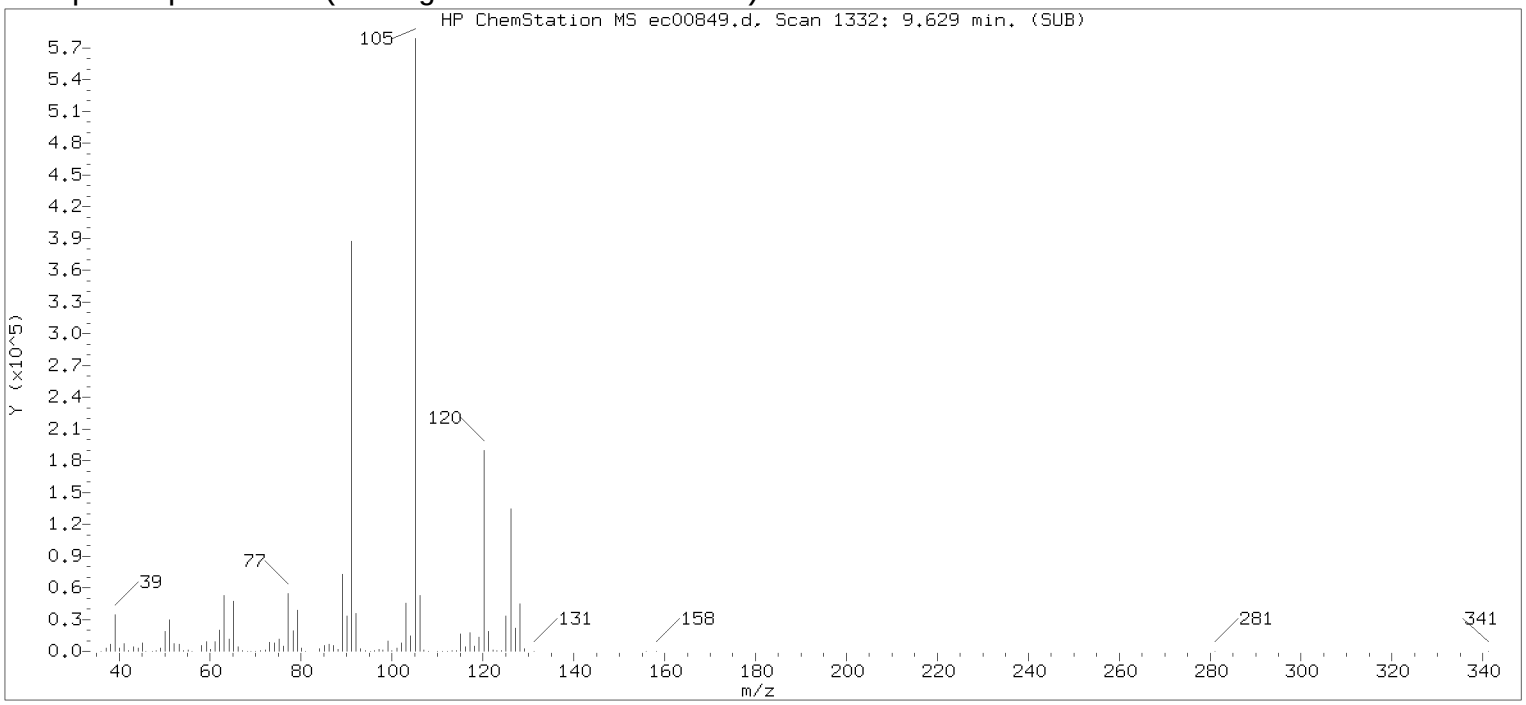
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 715863M
Concentration (ppb(v)) : 4.9770
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 288 Y at integration end: 288

Reason for manual integration: improper integration

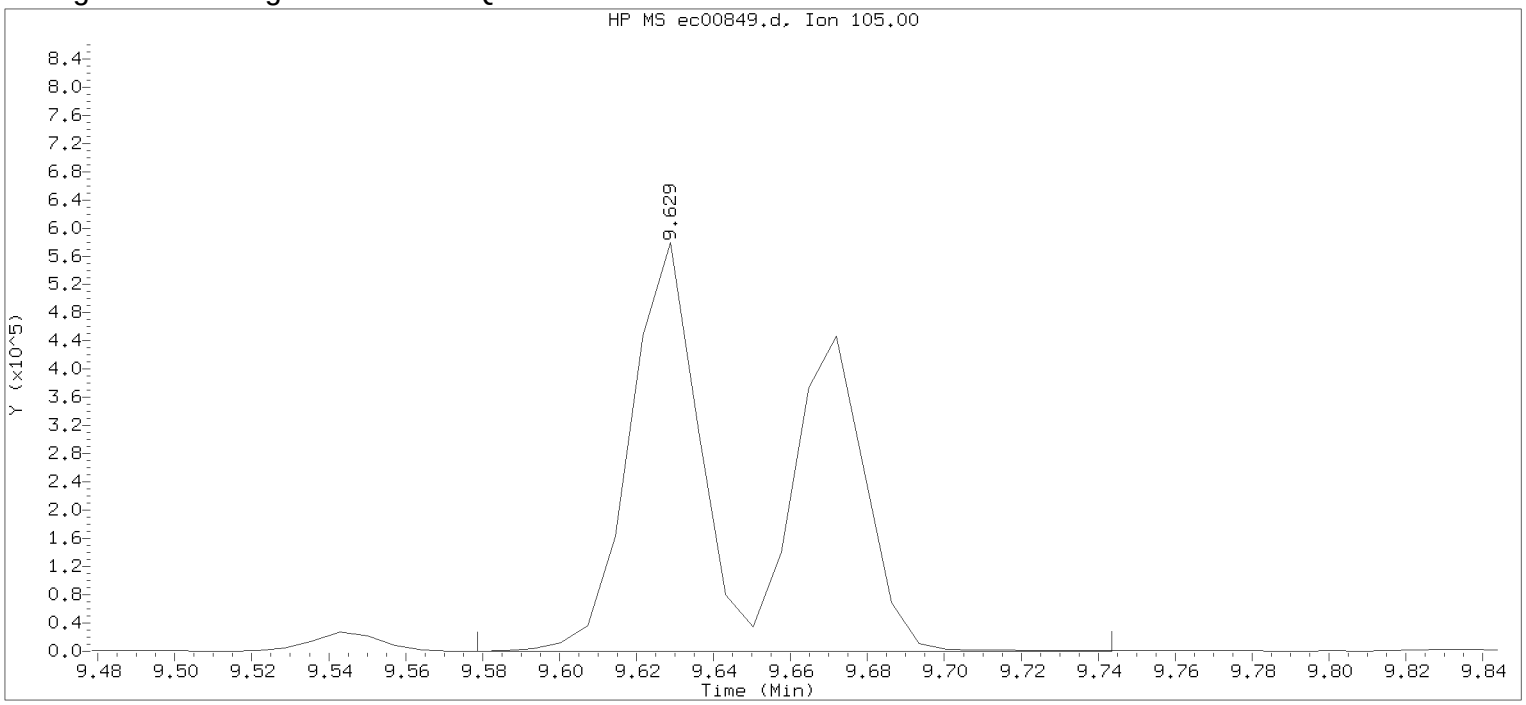
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

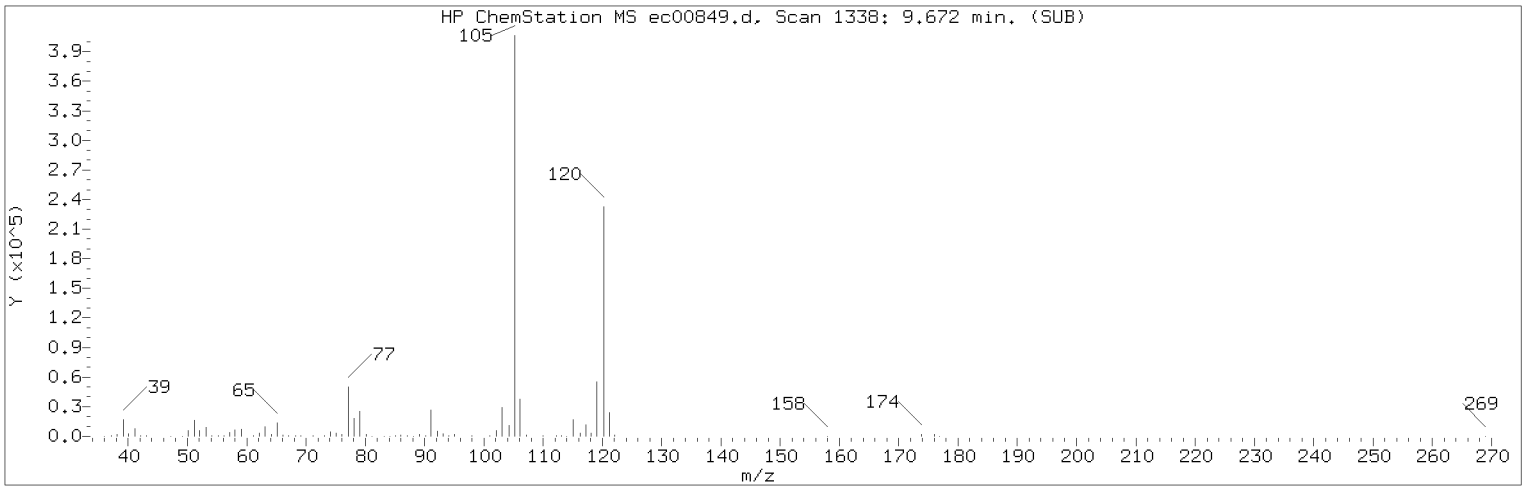
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 21:01 Unknown

Sample Name: VSTD005 Lab Sample ID: VSTD005

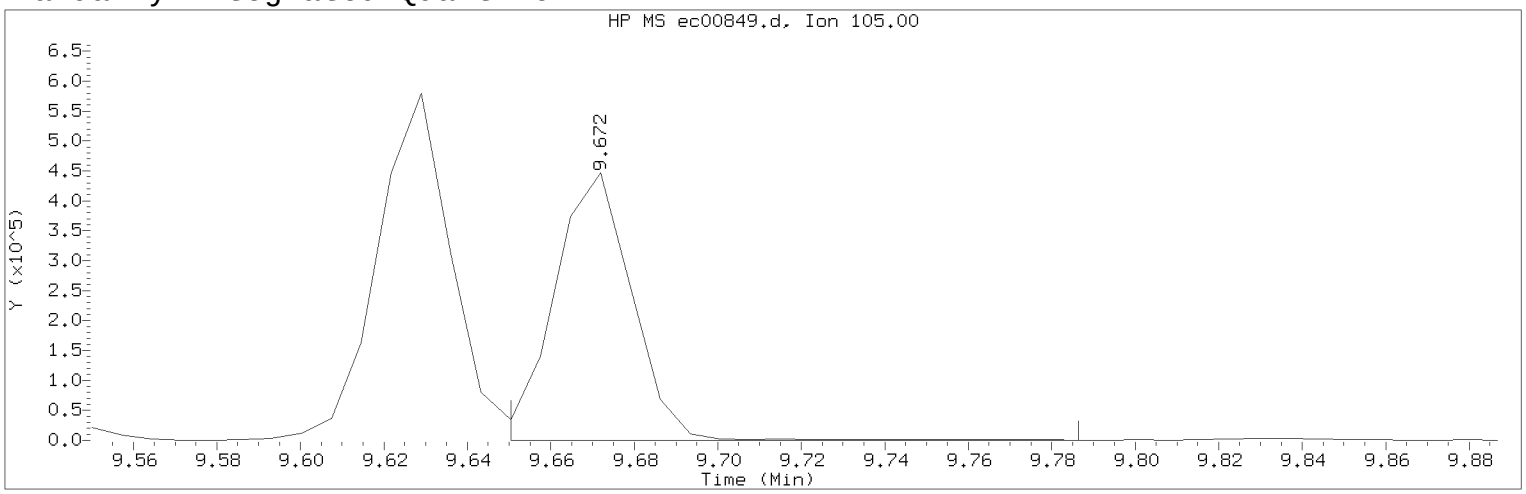
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 1277230
Concentration (ppb(v)) : 6.3743
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 227 Y at integration end: 227

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Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

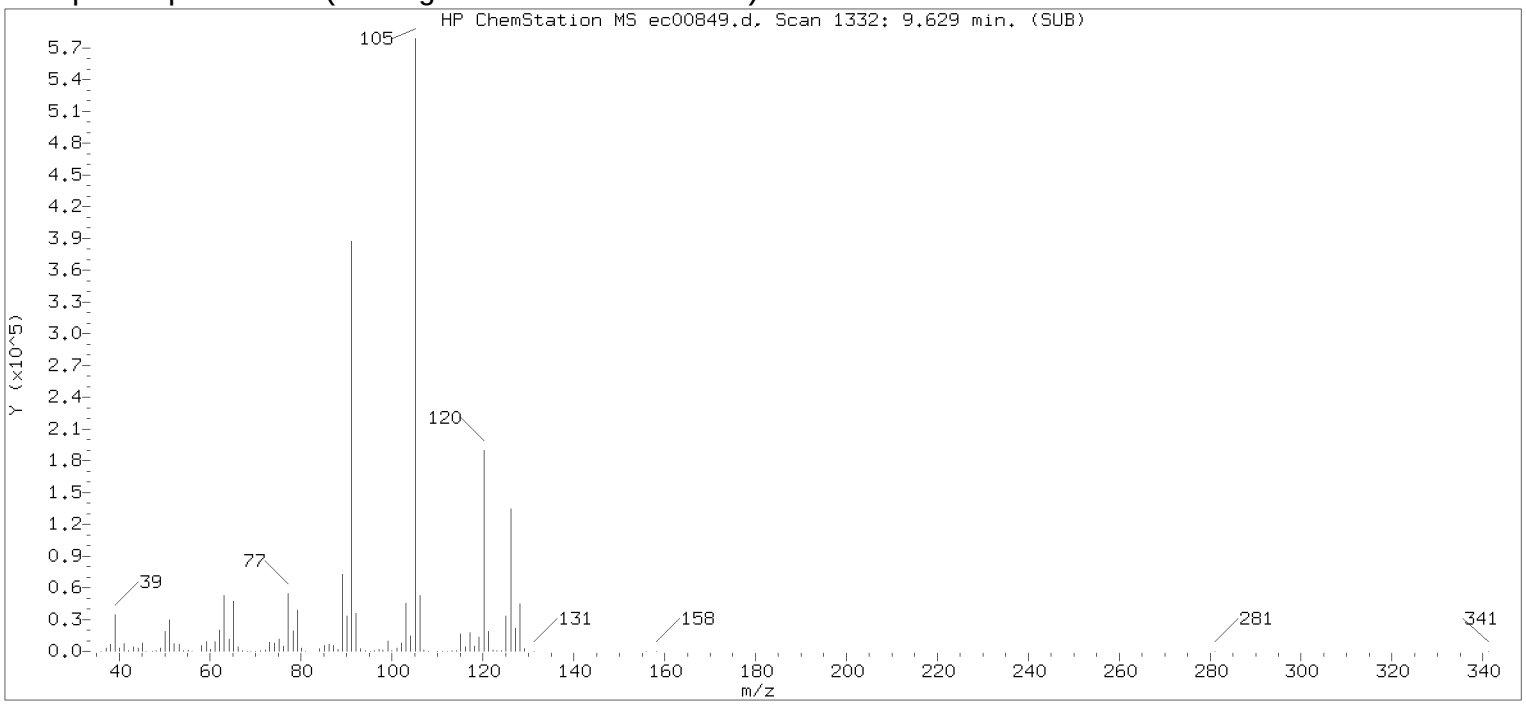
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 576438M
Concentration (ppb(v)) : 4.8370
Integration start scan : 1334 Integration stop scan: 1353
Y at integration start : 293 Y at integration end: 293

Reason for manual integration: improper integration

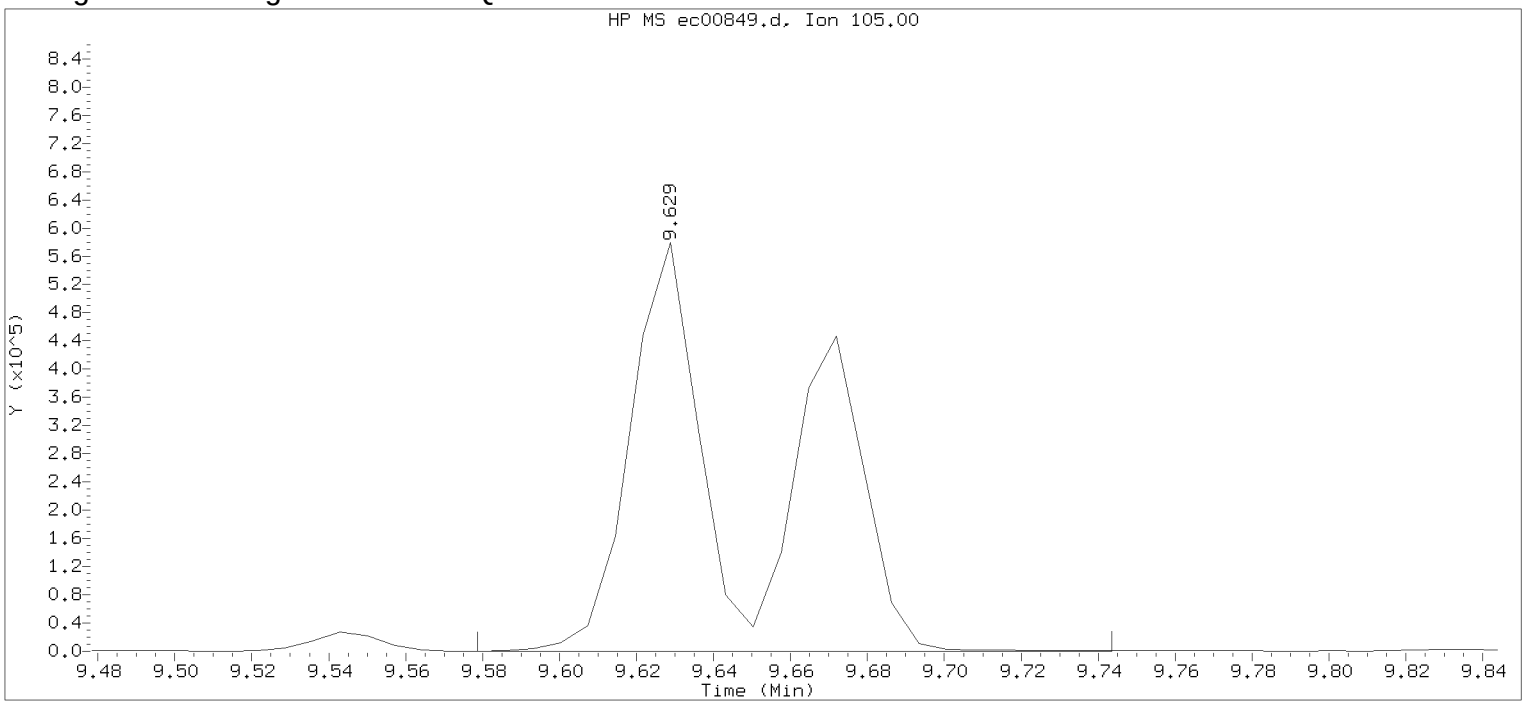
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

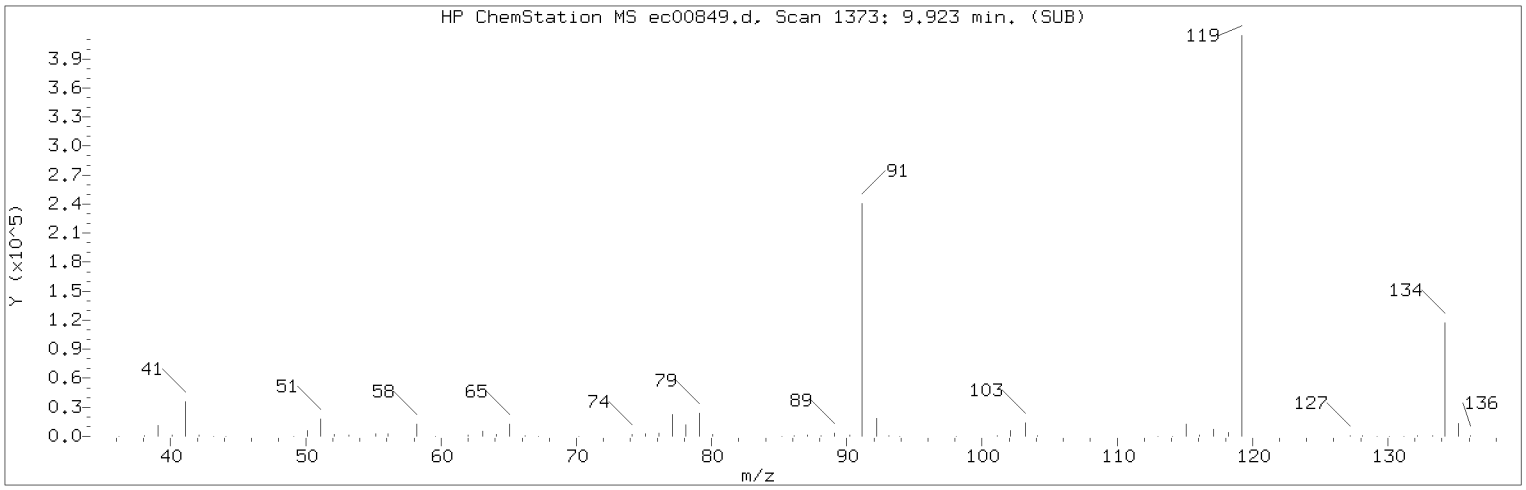
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 21:01 Unknown

Sample Name: VSTD005 Lab Sample ID: VSTD005

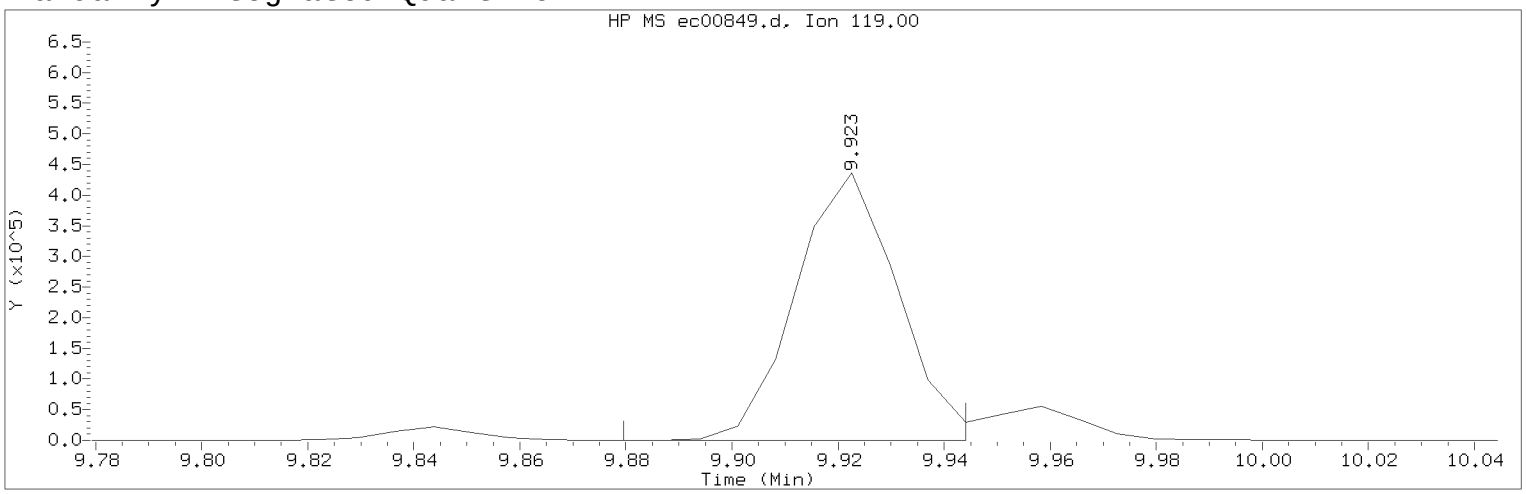
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 1276627
Concentration (ppb(v)) : 7.6815
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 288 Y at integration end: 288

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Target 3.5 esignature user ID: 07243

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD005 Lab Sample ID: VSTD005

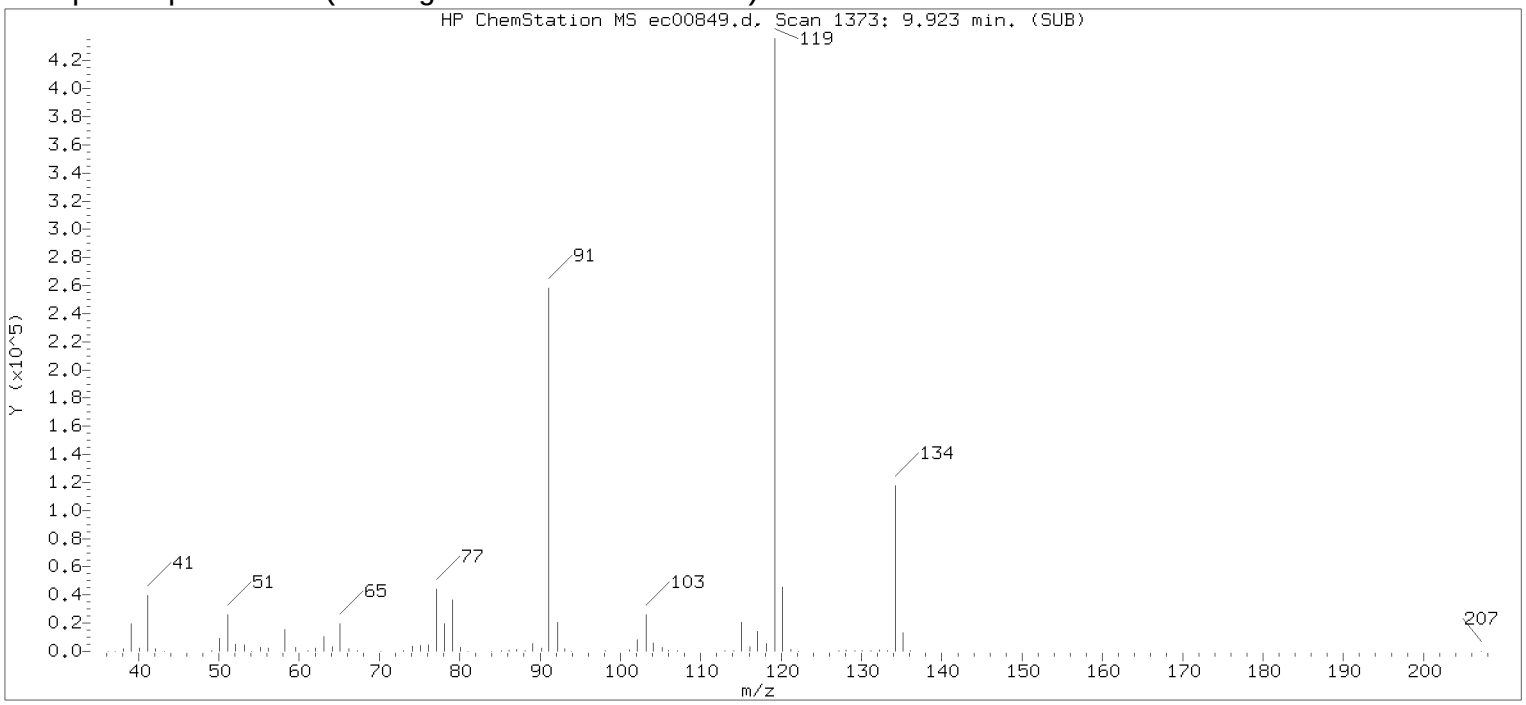
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area (flag) : 583814M
Concentration (ppb(v)) : 4.9505
Integration start scan : 1366 Integration stop scan: 1375
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

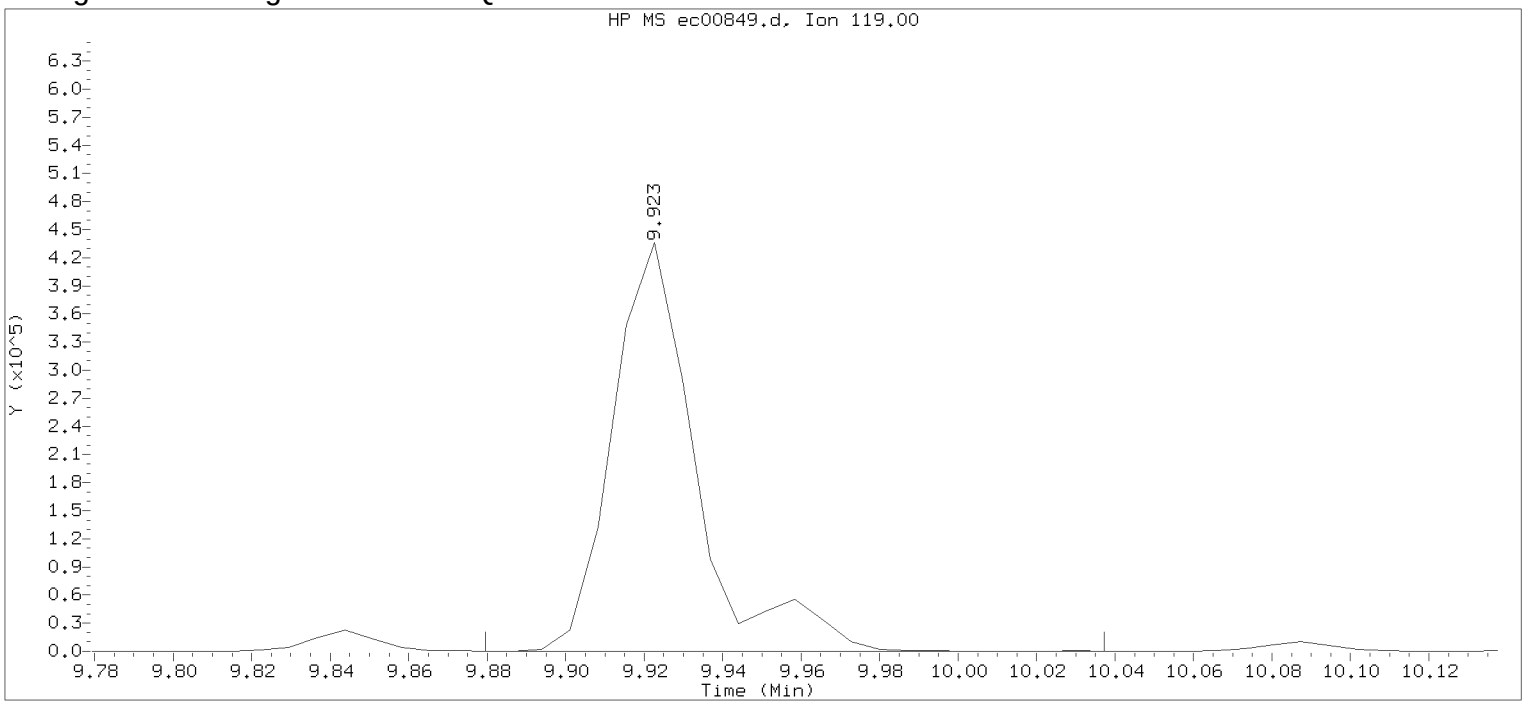
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



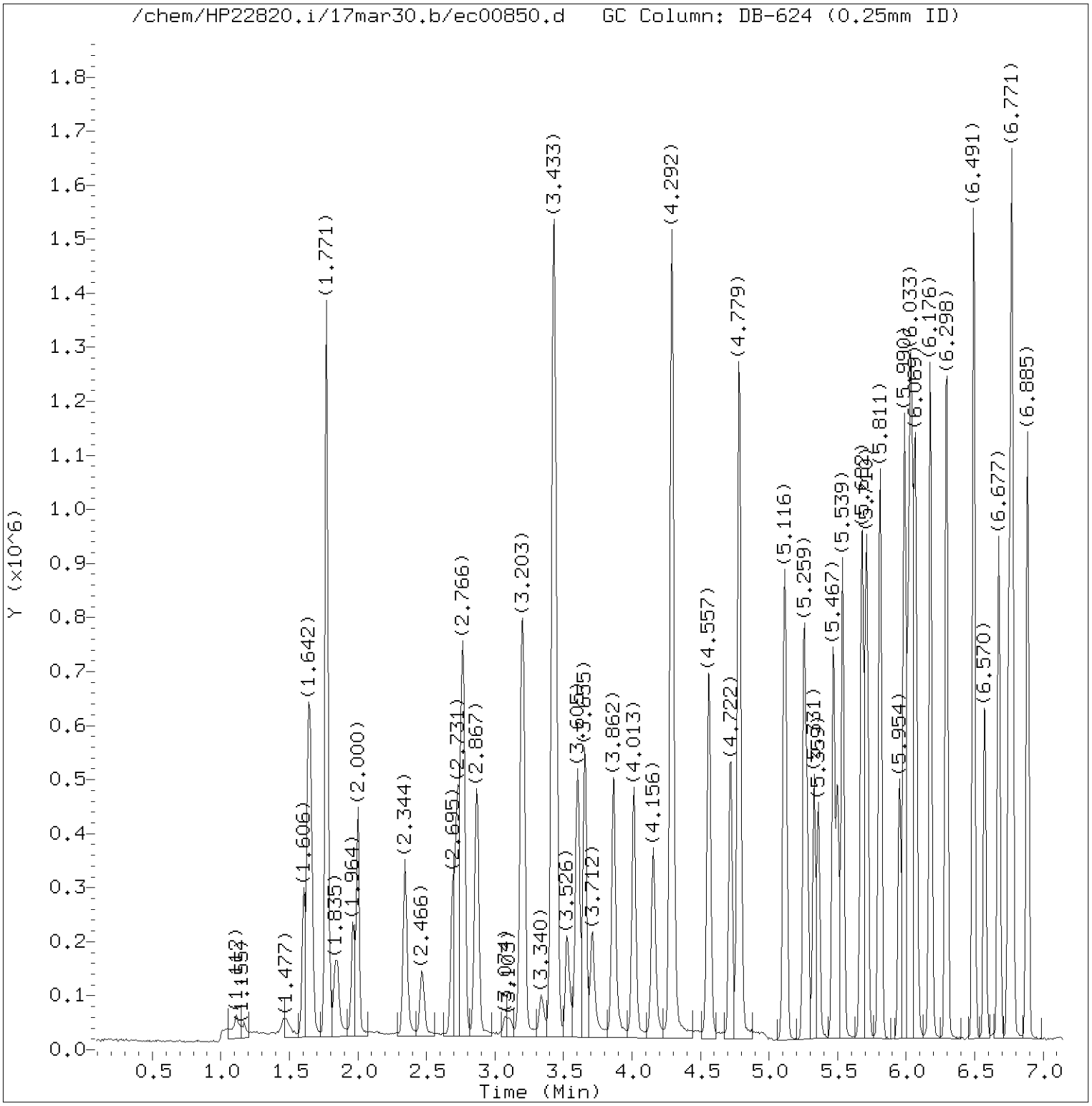
Data File: /chem/HP22820.i/17mar30.b/ec00849.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 20:42 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 21:01 Unknown

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area : 647088
Concentration (ppb(v)) : 3.8742
Integration start scan : 1366 Integration stop scan: 1388
Y at integration start : 0 Y at integration end: 0

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: 1 and password



Total Ion Chromatogram (TIC)

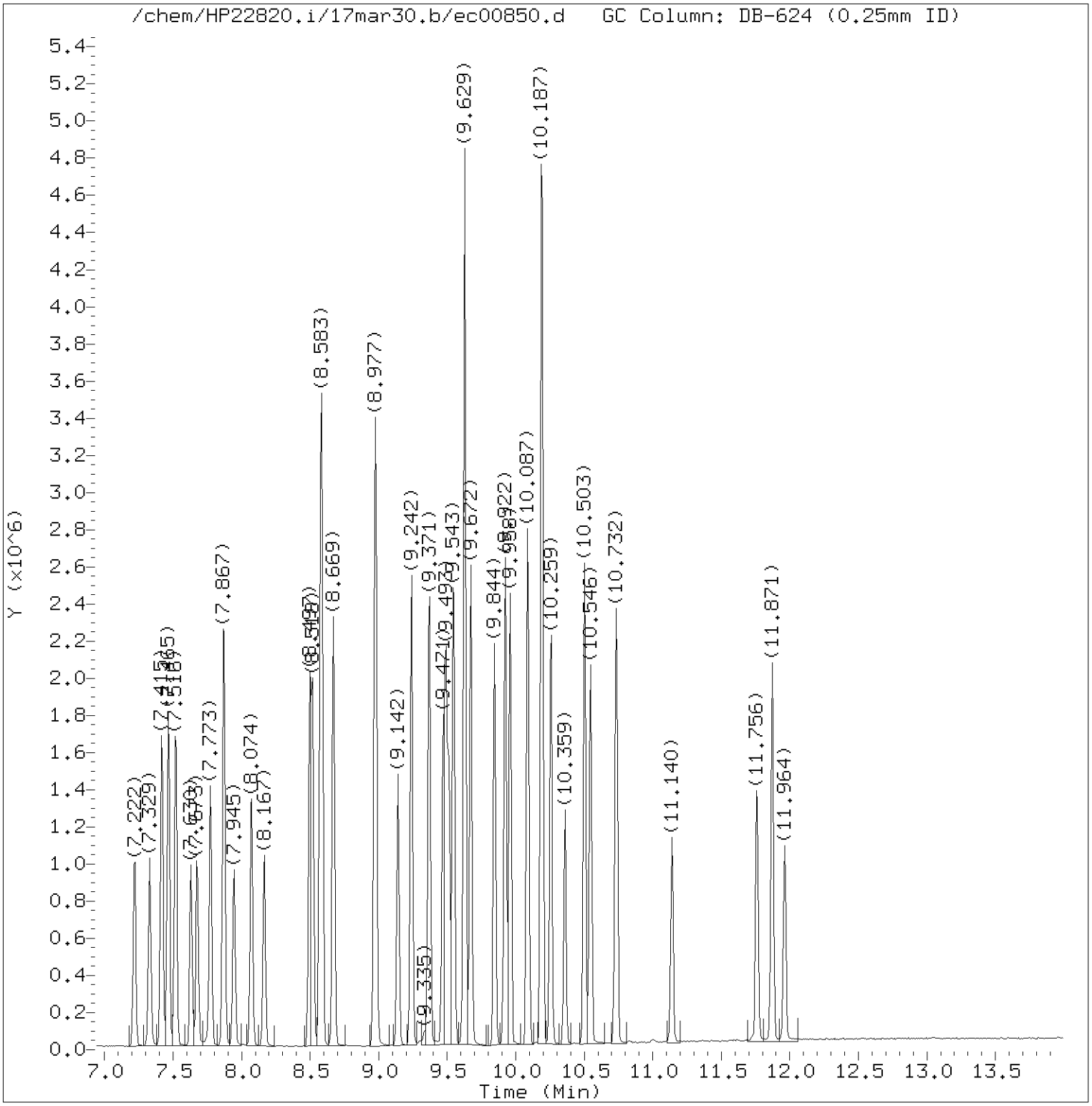
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.606	41	152338	9.813
2) Dichlorodifluoromethane	(1)	1.642	85	638741	10.477
3) Chlorodifluoromethane	(1)	1.663	51	326799	10.191
4) Freon 114	(1)	1.771	85	663034	10.323
5) Chloromethane	(1)	1.835	50	162305	9.330
6) Vinyl Chloride	(1)	1.964	62	239050	10.402
7) 1,3-Butadiene	(1)	2.000	54	171613	10.093
8) Bromomethane	(1)	2.344	94	254945	10.712
9) Chloroethane	(1)	2.466	64	132073	10.265
10) Bromoethene	(1)	2.688	106	264915	10.387
11) Dichlorofluoromethane	(1)	2.731	67	515474	10.262
12) Trichlorofluoromethane	(1)	2.766	101	679932	10.284
13) Pentane	(1)	2.867	43	356238	10.241
14) Ethanol	(1)	3.074	45	52079	9.647
15) Freon123a	(1)	3.203	67	498238	10.063
16) Acrolein	(1)	3.340	56	91551	10.449
17) 1,1-Dichloroethene	(1)	3.425	61	375878	10.580
18) Freon 113	(1)	3.433	103	392049	9.935
19) Acetone	(1)	3.526	43	281056	10.237
20) Methyl Iodide	(1)	3.605	142	676639	9.467
21) Carbon Disulfide	(1)	3.655	76	742195	10.579
22) Isopropanol	(1)	3.712	45	282426	11.776
24) 3-Chloropropene	(1)	3.862	76	125984	11.893
23) Acetonitrile	(1)	3.877	40	128910	9.468
25) Methylene Chloride	(1)	4.013	84	246173	11.775
26) tert-Butyl Alcohol	(1)	4.156	59	459942	11.448
28) trans-1,2-Dichloroethene	(1)	4.285	61	347923	10.572
29) Methyl t-Butyl Ether	(1)	4.292	73	729114	10.100
27) Acrylonitrile	(1)	4.299	53	183890	10.121
30) Hexane	(1)	4.557	57	360418	9.991
31) 1,1-Dichloroethane	(1)	4.722	63	451791	10.397
32) Vinyl Acetate	(1)	4.779	86	73660	12.836
33) Di-Isopropyl Ether	(1)	4.779	45	706644	10.152
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	736354	10.204
35) cis-1,2-Dichloroethene	(1)	5.252	61	330132	10.548
37) 2-Butanone	(1)	5.281	72	131254	10.619
38) Ethyl Acetate	(1)	5.331	70	64664	9.307
39) Methyl Acrylate	(1)	5.359	55	393997	10.599

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on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	246234	10.000
41) Tetrahydrofuran	(1)	5.496	42	237318	10.486
42) Chloroform	(1)	5.539	83	564424	10.277
43) 1,1,1-Trichloroethane	(1)	5.675	97	564732	10.201
44) Cyclohexane	(1)	5.710	56	375019	9.952
45) Carbon Tetrachloride	(1)	5.811	117	577754	10.157
46) Benzene	(2)	5.990	78	862808	10.257
47) 1,2-Dichloroethane	(2)	6.011	62	327011	10.356
48) Isooctane	(2)	6.033	57	1189789	10.323
49) Tert-Amyl Methyl Ether	(2)	6.069	73	780202	10.379
50) Heptane	(2)	6.176	43	382361	9.922
51)*1,4-Difluorobenzene	(2)	6.298	114	914576	10.000
52) Trichloroethene	(2)	6.491	130	441244	10.342
53) Ethyl Acrylate	(2)	6.570	55	498223	10.597
36) 1,2-Dichloroethene (total)	(1)		61	678055	21.121
54) 1,2-Dichloropropane	(2)	6.677	63	294842	10.177
57) Methyl Methacrylate	(2)	6.749	69	284545	10.310
55) Dibromomethane	(2)	6.771	174	438755	10.538
56) 1,4-Dioxane	(2)	6.778	88	203514	10.379
58) Bromodichloromethane	(2)	6.885	83	558835	10.492
59) cis-1,3-Dichloropropene	(2)	7.222	75	495967	10.489
60) 4-Methyl-2-Pentanone	(2)	7.329	43	491123	10.232
61) Toluene	(3)	7.465	91	1061070	9.595
62) Octane	(3)	7.516	43	521943	9.573
63) trans-1,3-Dichloropropene	(3)	7.630	75	419792	10.293
65) Ethyl Methacrylate	(3)	7.673	69	454779	10.224
66) 1,1,2-Trichloroethane	(3)	7.773	97	361306	10.025
67) Tetrachloroethene	(3)	7.874	166	636308	9.911
68) 2-Hexanone	(3)	7.945	43	440362	9.840
69) Dibromochloromethane	(3)	8.074	127	468520	10.491
70) 1,2-Dibromoethane	(3)	8.167	107	562682	10.133
71)*Chlorobenzene-d5	(3)	8.497	117	912023	10.000
72) Chlorobenzene	(3)	8.518	112	902606	9.696
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	461645	10.277
74) Ethylbenzene	(3)	8.583	91	1375320	9.818
75) m/p-Xylene	(3)	8.669	91	1096185	9.843
76) o-Xylene	(3)	8.970	91	1042344	9.802
78) Styrene	(3)	8.984	104	813108	10.287

* = Compound is an internal standard.

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Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

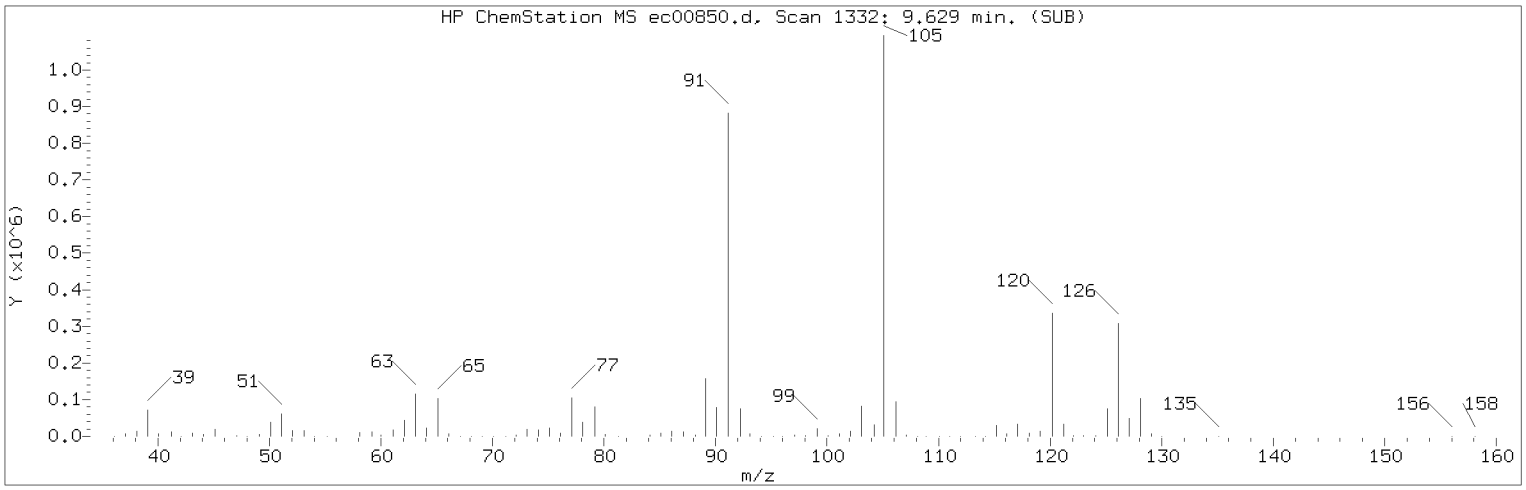
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	569294	10.802
80) Cumene	(3)	9.242	105	1479019	9.924
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	666953	9.954
81) Bromobenzene	(3)	9.493	156	546178	9.846
83) 1,2,3-Trichloropropane	(3)	9.514	110	219822	9.551
84) n-Propylbenzene	(3)	9.550	120	438547	9.891
86) 4-Ethyltoluene	(3)	9.629	105	1464275M	10.078
85) 2-Chlorotoluene	(3)	9.629	126	394792	9.887
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	1175855M	9.844
88) Alpha Methyl Styrene	(3)	9.844	118	579505	10.353
89) tert-Butylbenzene	(3)	9.922	119	1199095M	10.069
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	1123054	9.902
91) sec-Butylbenzene	(3)	10.087	105	1658638	9.978
92) 1,3-Dichlorobenzene	(3)	10.187	146	835108	9.804
94) p-Isopropyltoluene	(3)	10.187	119	1401018	10.052
93) 1,4-Dichlorobenzene	(3)	10.259	146	844810	9.762
95) Benzyl Chloride	(3)	10.359	91	733549	10.468
97) n-Butylbenzene	(3)	10.503	91	1150223	10.087
96) 1,2-Dichlorobenzene	(3)	10.546	146	746421	9.817
98) Hexachloroethane	(3)	10.732	117	338859	11.099
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	291210	10.762
100) 1,2,4-Trichlorobenzene	(3)	11.763	180	417370	9.891
101) Hexachlorobutadiene	(3)	11.871	225	374480	9.912
102) Naphthalene	(3)	11.964	128	766117	10.280
64) 1,3-Dichloropropene (total)	(3)		75	915759	20.543
77) Xylene (total)	(3)		91	2138529	19.646

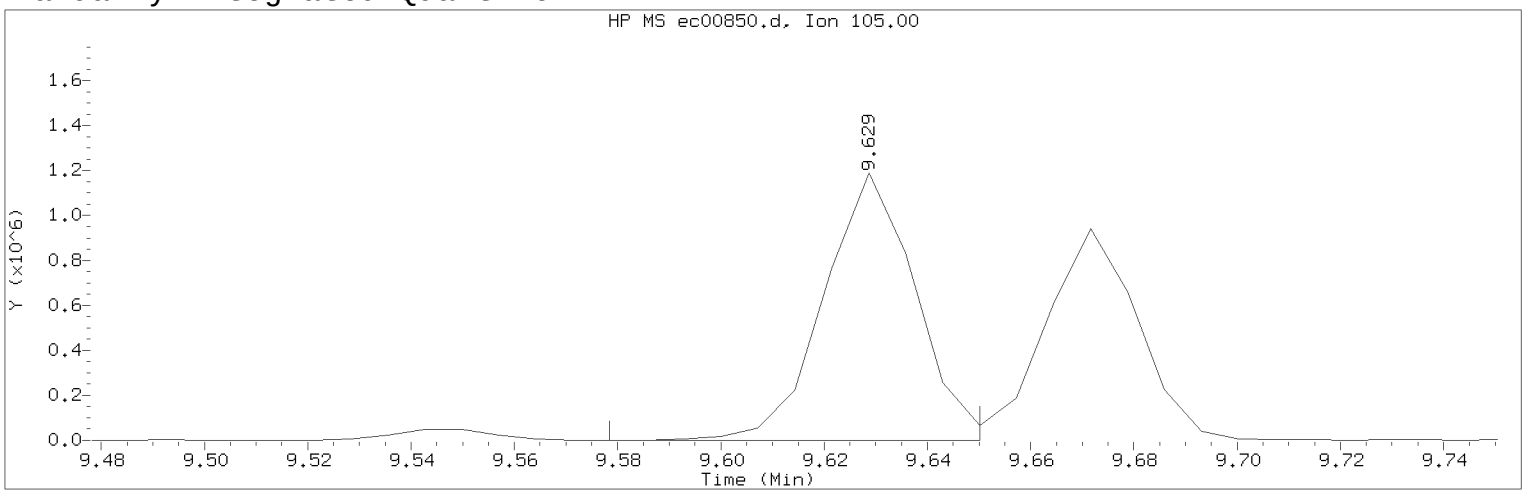
M = Compound was manually integrated.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD010 Lab Sample ID: VSTD010

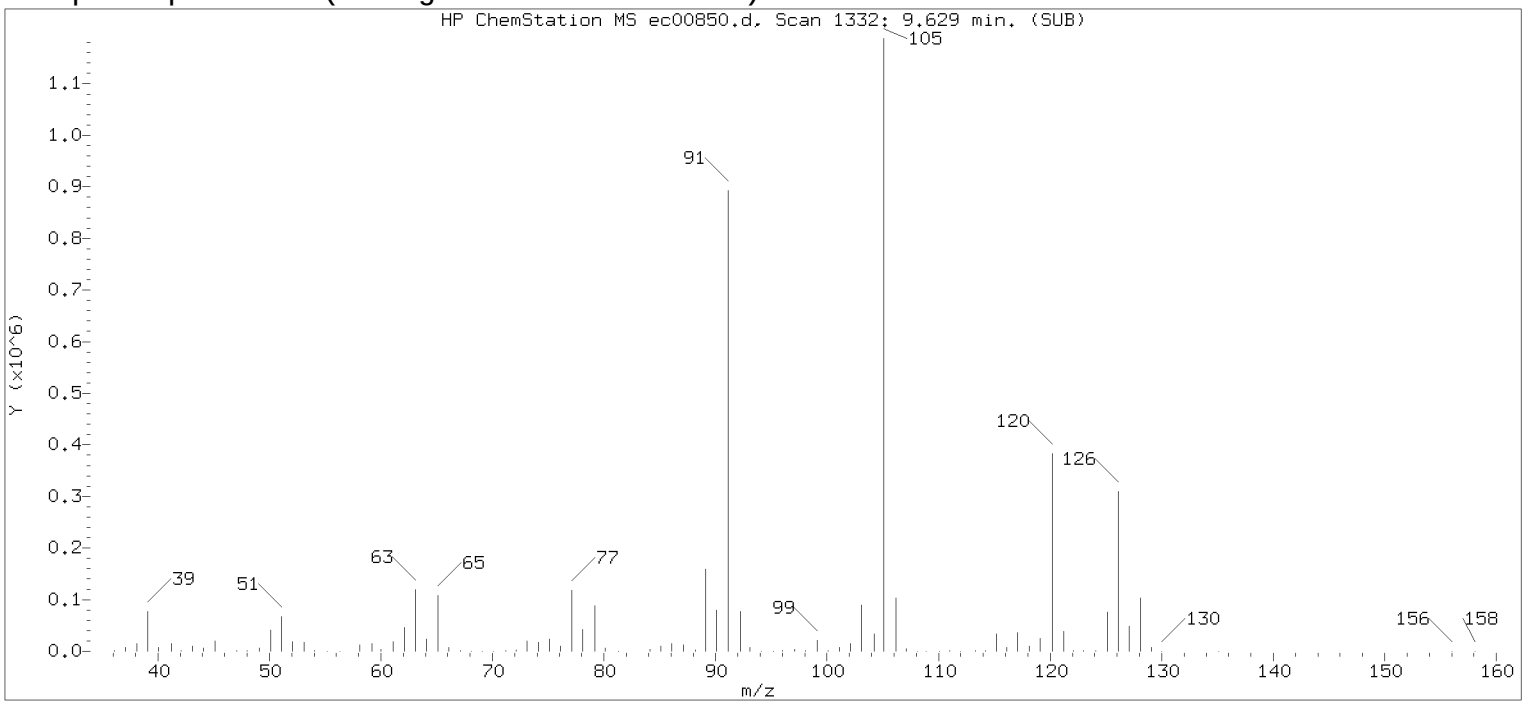
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 1464275M
Concentration (ppb(v)) : 10.0781
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 715 Y at integration end: 715

Reason for manual integration: improper integration

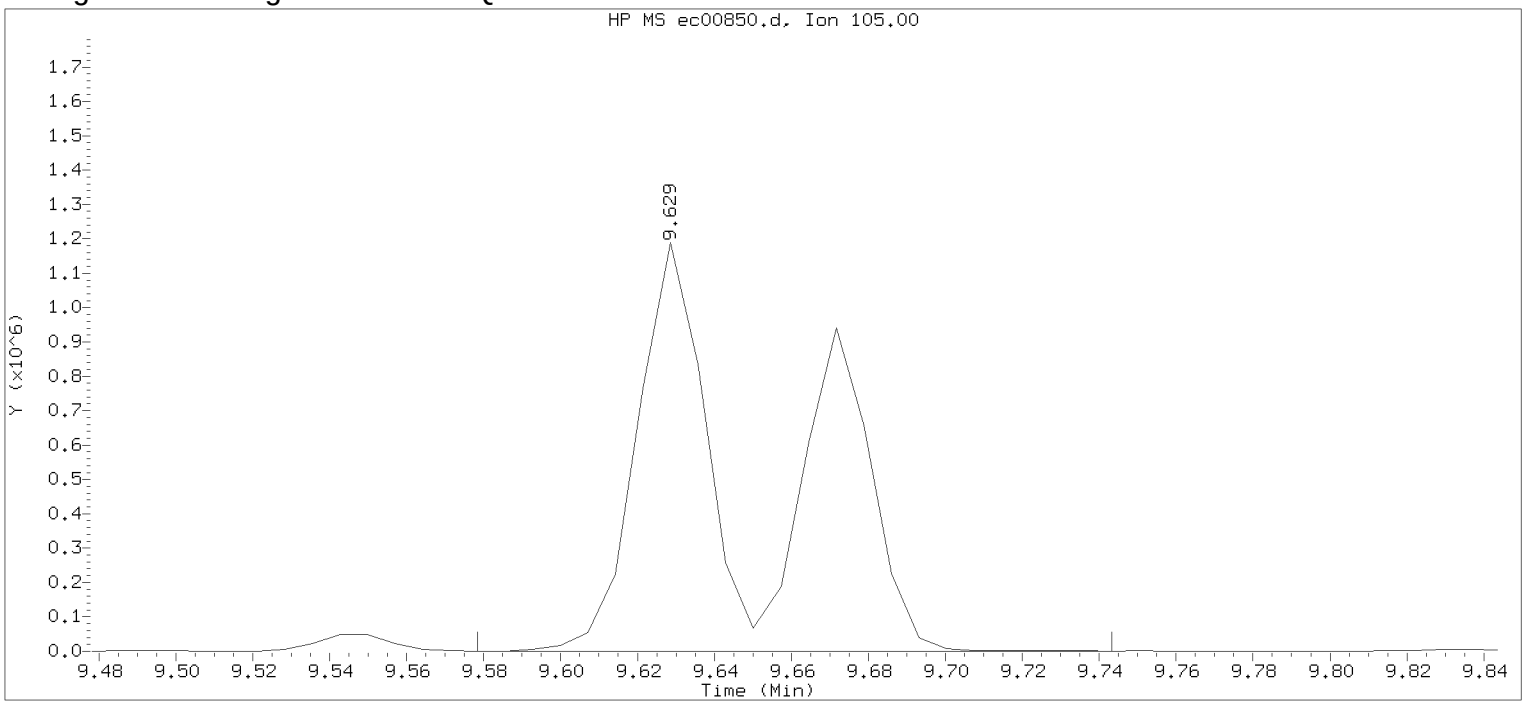
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

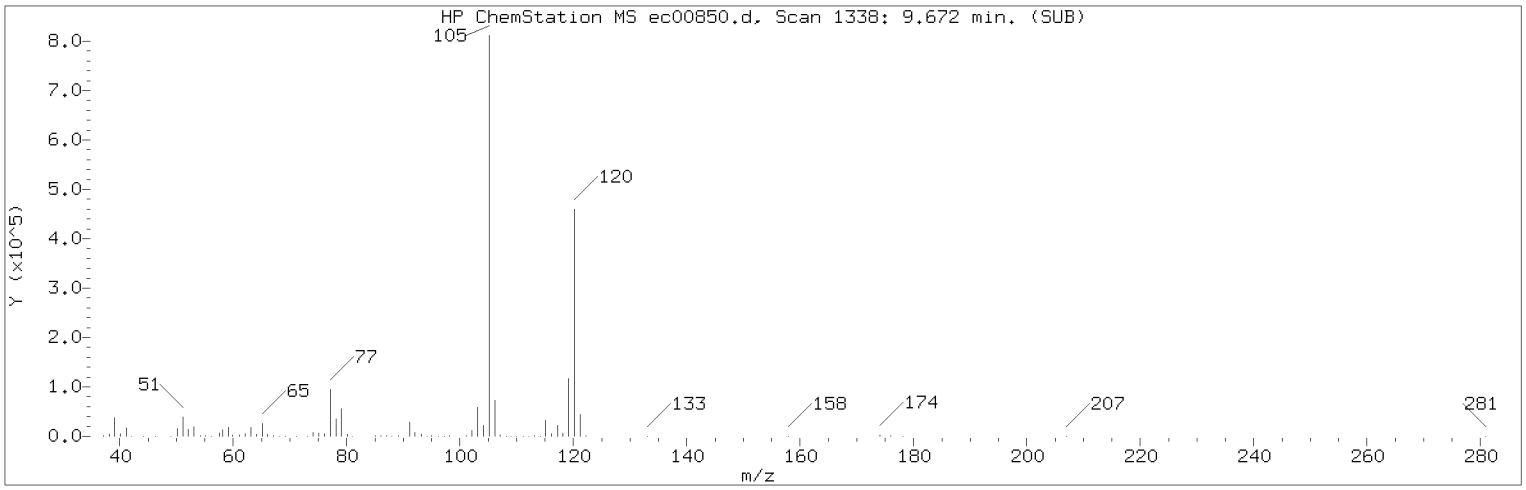
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
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Date, time and analyst ID of latest file update: 30-Mar-2017 21:35 Unknown

Sample Name: VSTD010 Lab Sample ID: VSTD010

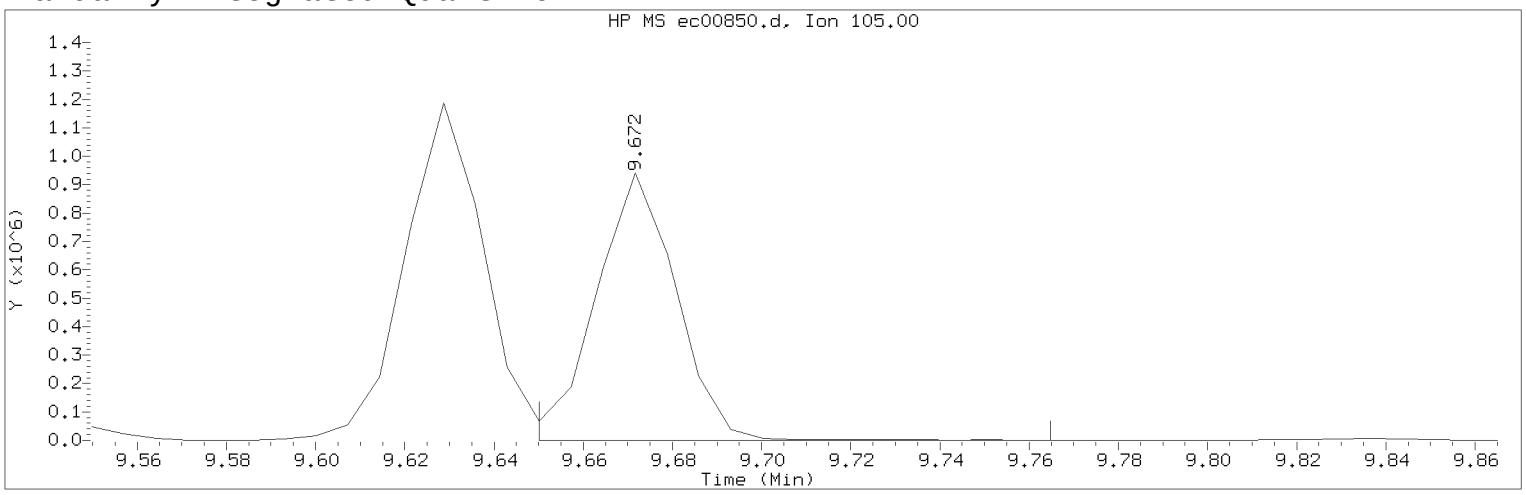
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 2613970
Concentration (ppb(v)) : 12.9483
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 387 Y at integration end: 387

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD010 Lab Sample ID: VSTD010

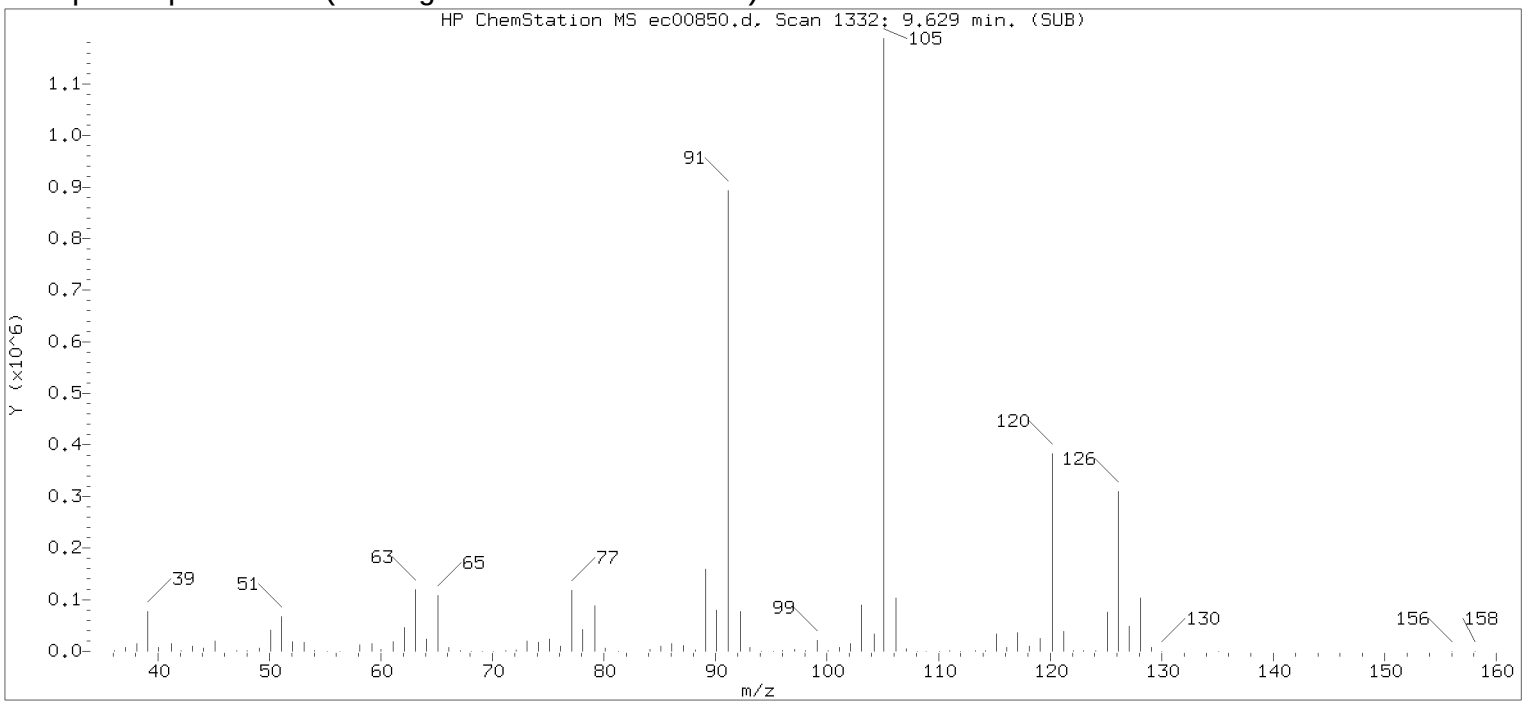
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 1175855M
Concentration (ppb(v)) : 9.8441
Integration start scan : 1334 Integration stop scan: 1350
Y at integration start : 640 Y at integration end: 640

Reason for manual integration: improper integration

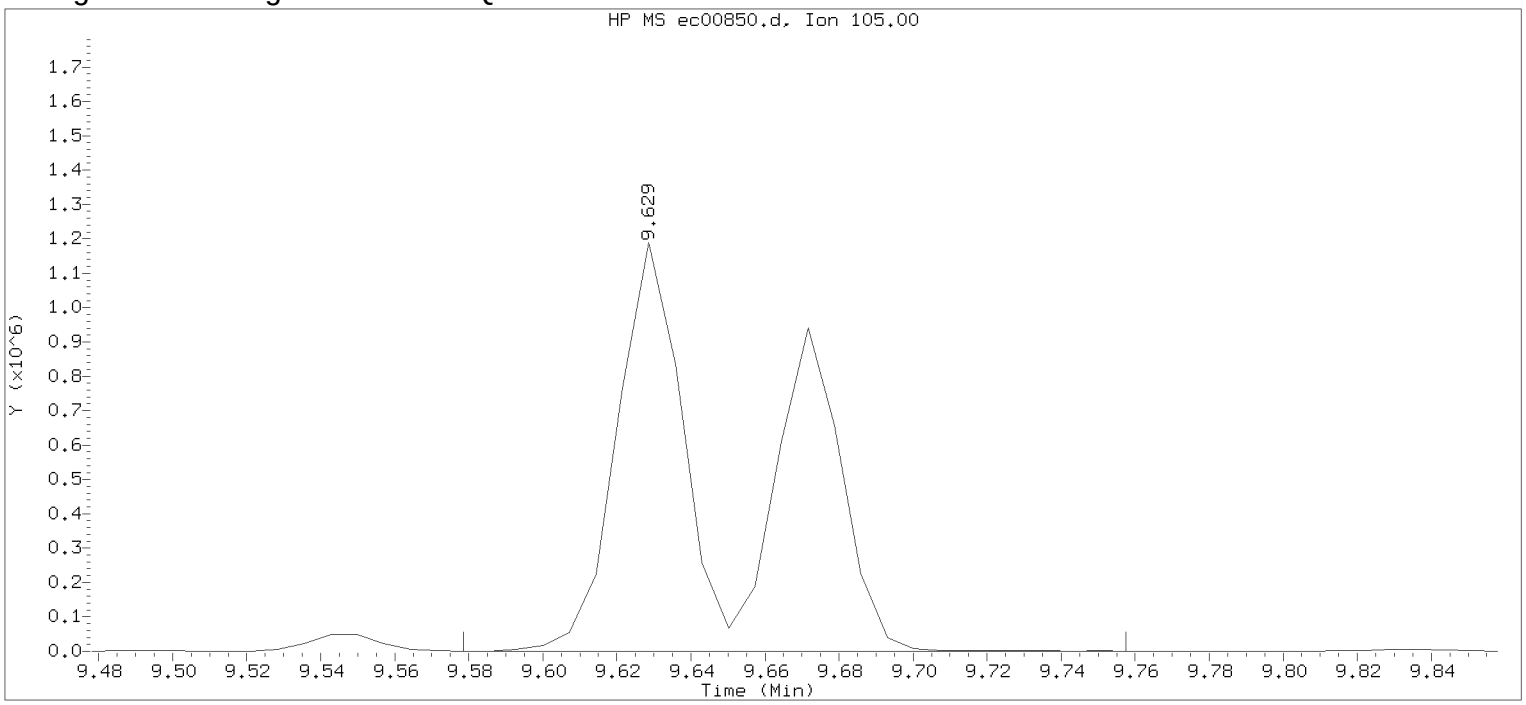
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

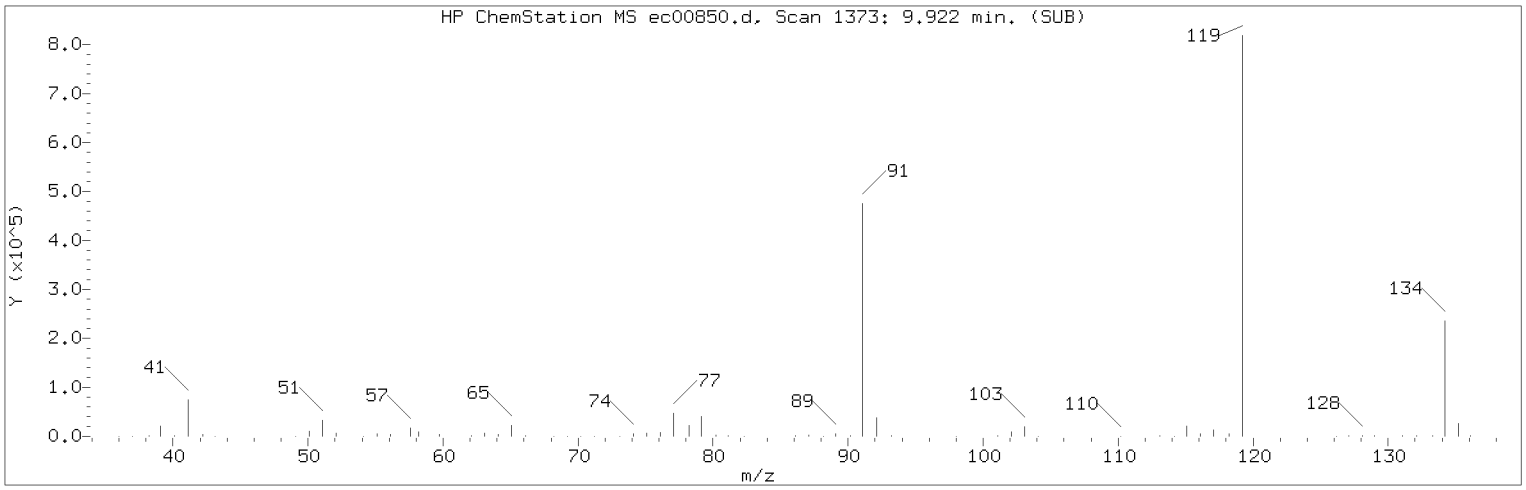
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 21:35 Unknown

Sample Name: VSTD010 Lab Sample ID: VSTD010

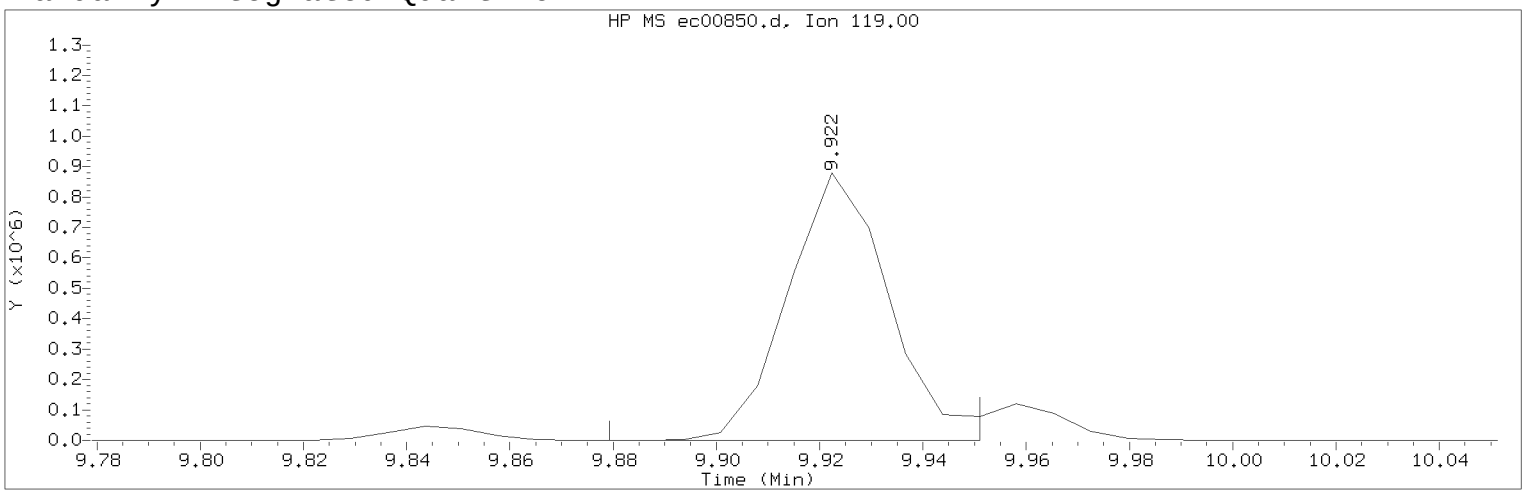
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 2611132
Concentration (ppb(v)) : 15.5942
Integration start scan : 1324 Integration stop scan: 1349
Y at integration start : 715 Y at integration end: 715

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD010 Lab Sample ID: VSTD010

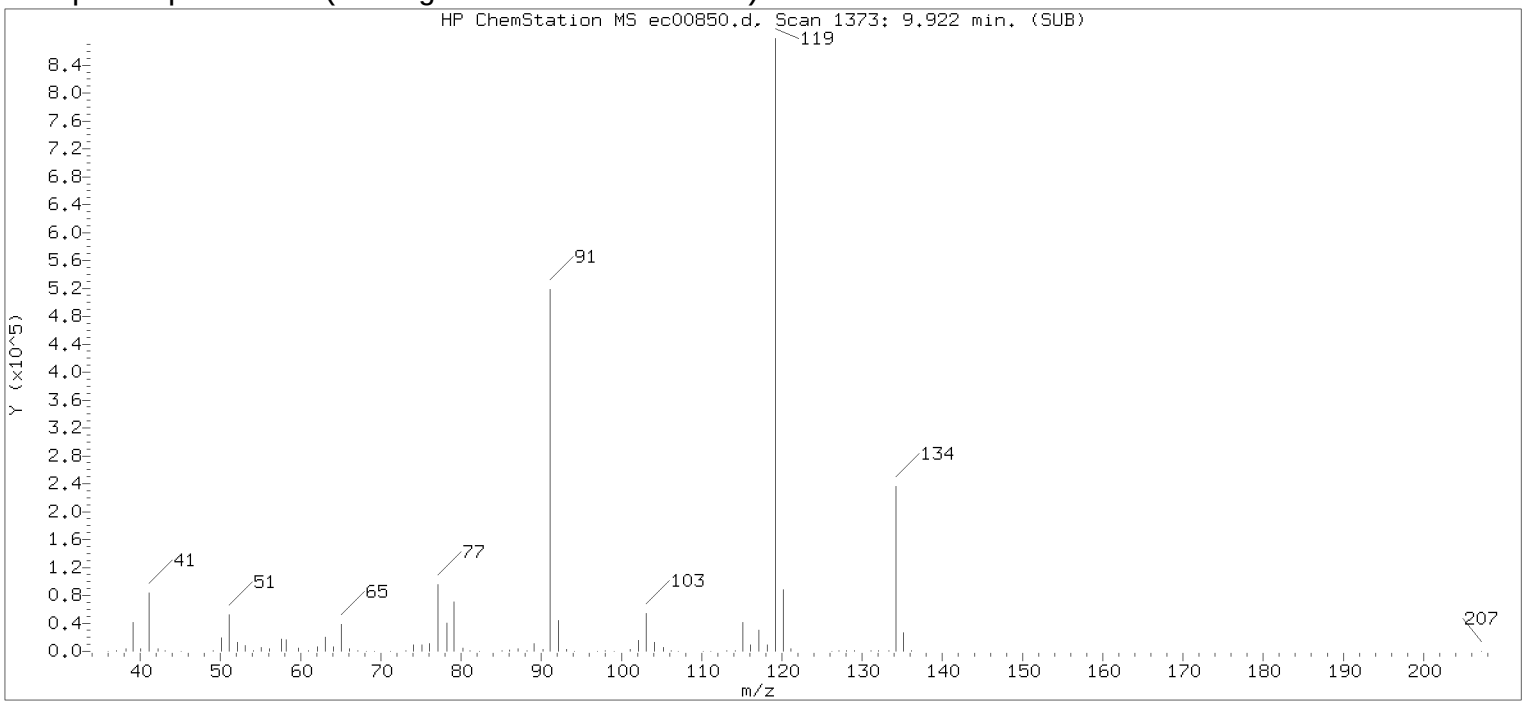
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area (flag) : 1199095M
Concentration (ppb(v)) : 10.0689
Integration start scan : 1366 Integration stop scan: 1376
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

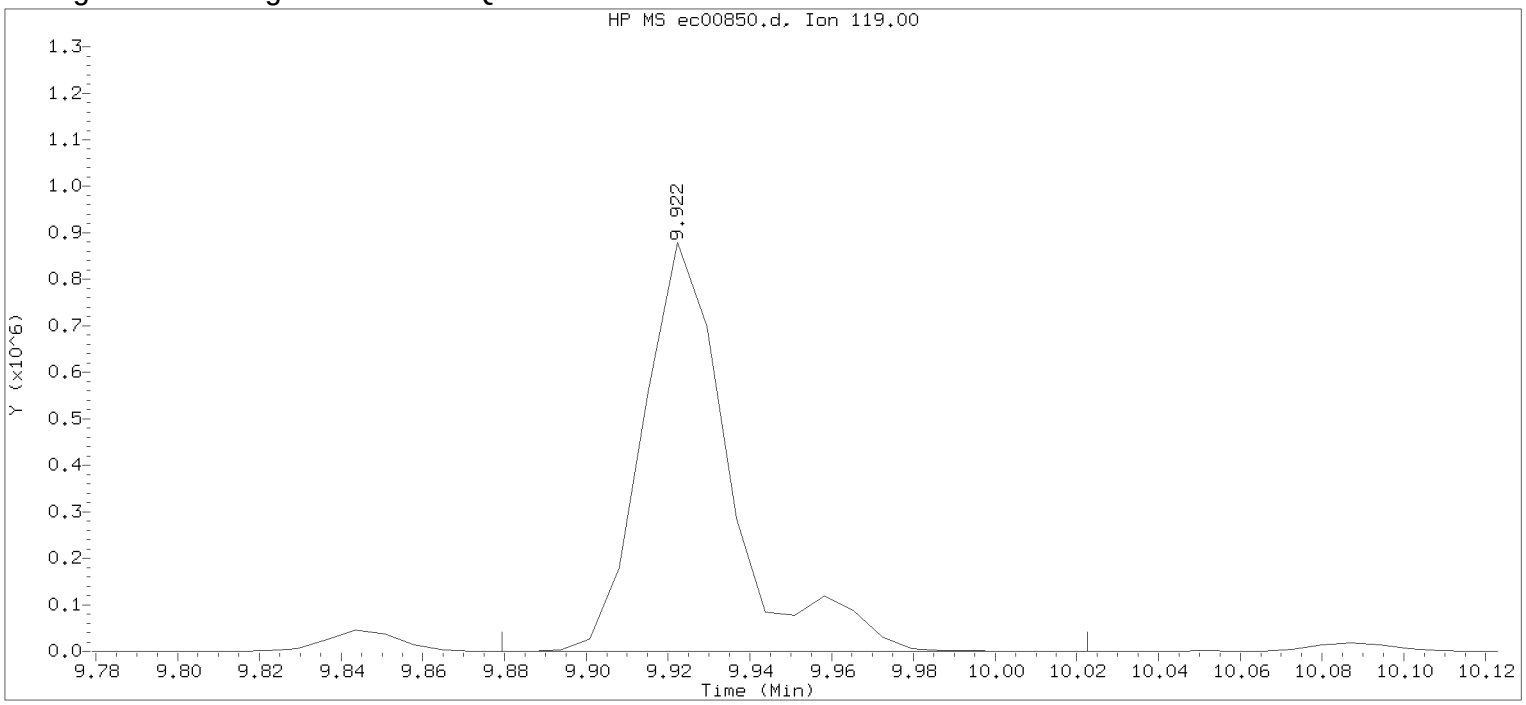
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



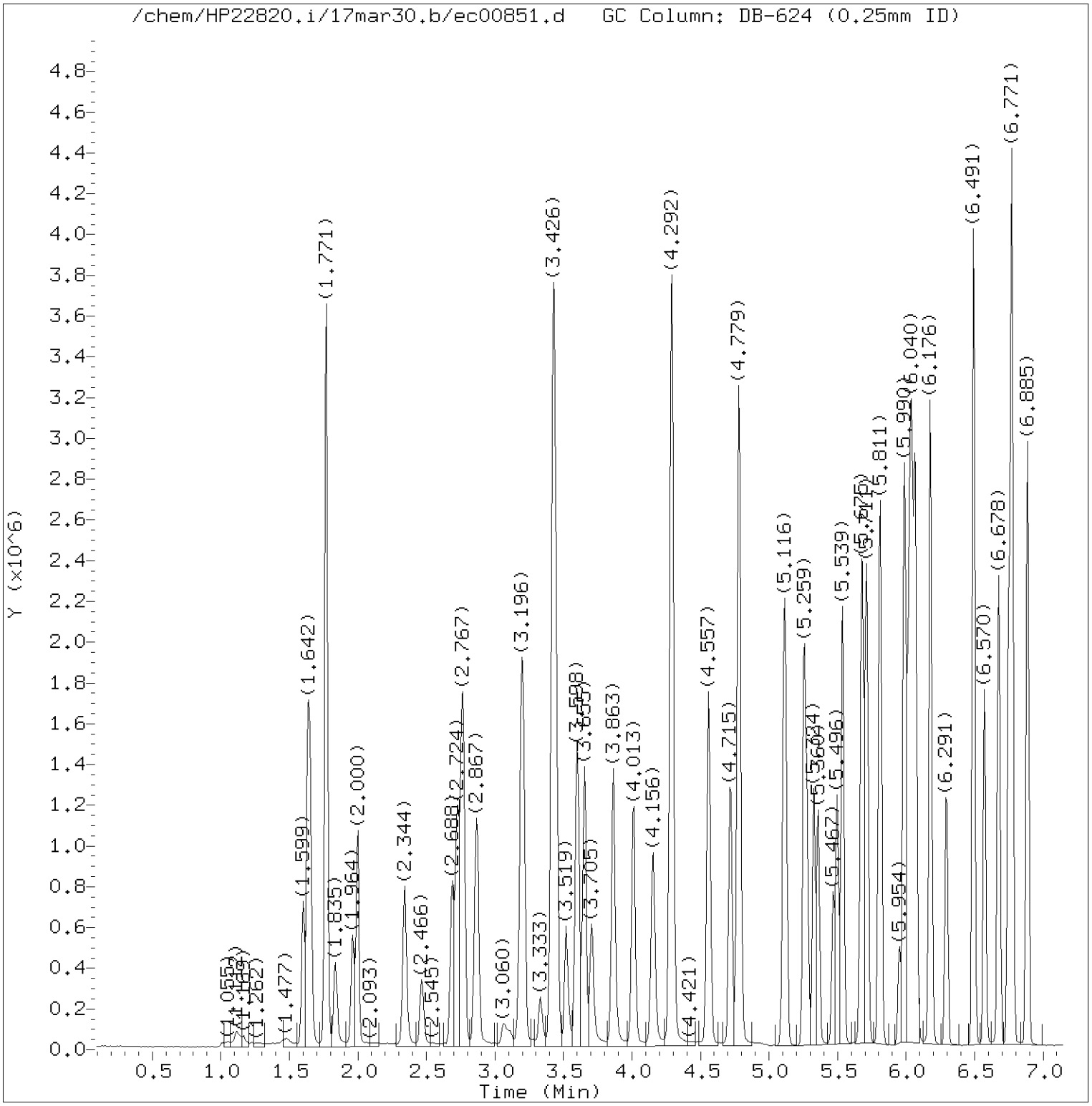
Data File: /chem/HP22820.i/17mar30.b/ec00850.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:16 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 21:35 Unknown

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area : 1305275
Concentration (ppb(v)) : 7.7567
Integration start scan : 1366 Integration stop scan: 1386
Y at integration start : 0 Y at integration end: 0

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: 1 and password



Total Ion Chromatogram (TIC)

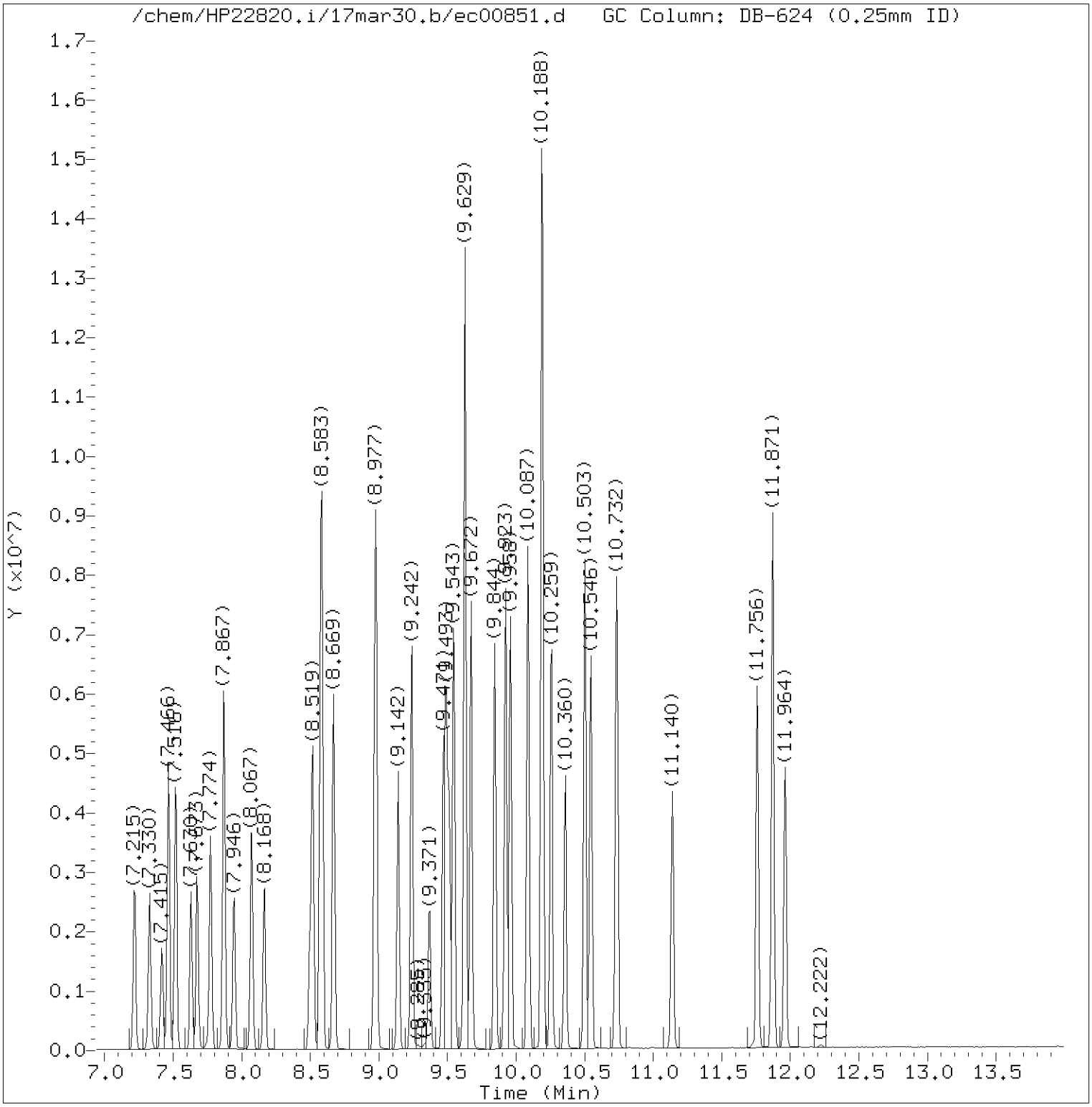
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.599	41	381198	24.656
2) Dichlorodifluoromethane	(1)	1.635	85	1586969	25.831
3) Chlorodifluoromethane	(1)	1.656	51	820291	25.475
4) Freon 114	(1)	1.771	85	1661589	25.704
5) Chloromethane	(1)	1.835	50	403083	23.527
6) Vinyl Chloride	(1)	1.964	62	594466	25.702
7) 1,3-Butadiene	(1)	2.000	54	431530	25.316
8) Bromomethane	(1)	2.344	94	600679	25.204
9) Chloroethane	(1)	2.466	64	327836	25.395
10) Bromoethene	(1)	2.688	106	664650	25.854
11) Dichlorofluoromethane	(1)	2.724	67	1298907	25.696
12) Trichlorofluoromethane	(1)	2.767	101	1683950	25.388
13) Pentane	(1)	2.867	43	865713	24.924
14) Ethanol	(1)	3.060	45	165594	29.356
15) Freon123a	(1)	3.196	67	1219603	24.719
16) Acrolein	(1)	3.333	56	232664	26.241
17) 1,1-Dichloroethene	(1)	3.419	61	924329	25.821
18) Freon 113	(1)	3.433	103	972901	24.736
19) Acetone	(1)	3.519	43	728238	26.219
20) Methyl Iodide	(1)	3.598	142	1968657	27.008
21) Carbon Disulfide	(1)	3.655	76	1848149	26.076
22) Isopropanol	(1)	3.705	45	801901	32.268
23) Acetonitrile	(1)	3.863	40	296339M	22.354
24) 3-Chloropropene	(1)	3.863	76	309021	28.945
25) Methylene Chloride	(1)	4.013	84	613308	29.074
26) tert-Butyl Alcohol	(1)	4.156	59	1241482	30.289
28) trans-1,2-Dichloroethene	(1)	4.285	61	861012	25.936
29) Methyl t-Butyl Ether	(1)	4.285	73	1824616	25.232
27) Acrylonitrile	(1)	4.292	53	491565	26.632
30) Hexane	(1)	4.557	57	902710	25.031
31) 1,1-Dichloroethane	(1)	4.715	63	1118813	25.607
32) Vinyl Acetate	(1)	4.779	86	193190	32.438
33) Di-Isopropyl Ether	(1)	4.779	45	1776923	25.433
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	1879583	25.844
35) cis-1,2-Dichloroethene	(1)	5.252	61	820325	25.973
37) 2-Butanone	(1)	5.281	72	338937	26.914
38) Ethyl Acetate	(1)	5.324	70	166663	24.196
39) Methyl Acrylate	(1)	5.360	55	1024931	27.029

M = Compound was manually integrated.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	246075	10.000
41) Tetrahydrofuran	(1)	5.496	42	597758	26.130
42) Chloroform	(1)	5.539	83	1403926	25.461
43) 1,1,1-Trichloroethane	(1)	5.675	97	1422677	25.569
44) Cyclohexane	(1)	5.711	56	959829	25.389
45) Carbon Tetrachloride	(1)	5.811	117	1494312	26.019
46) Benzene	(2)	5.990	78	2157504	25.526
47) 1,2-Dichloroethane	(2)	6.012	62	815617	25.670
48) Isooctane	(2)	6.033	57	3003655	25.853
49) Tert-Amyl Methyl Ether	(2)	6.069	73	2018675	26.473
50) Heptane	(2)	6.176	43	979661	25.346
51)*1,4-Difluorobenzene	(2)	6.298	114	914086	10.000
52) Trichloroethene	(2)	6.491	130	1131878	26.221
53) Ethyl Acrylate	(2)	6.570	55	1330450	27.582
36) 1,2-Dichloroethene (total)	(1)		61	1681337	51.909
54) 1,2-Dichloropropane	(2)	6.678	63	726402	25.070
57) Methyl Methacrylate	(2)	6.749	69	724086M	25.989
56) 1,4-Dioxane	(2)	6.771	88	543015	27.120
55) Dibromomethane	(2)	6.771	174	1135184	26.790
58) Bromodichloromethane	(2)	6.885	83	1476483	27.142
59) cis-1,3-Dichloropropene	(2)	7.215	75	1309679	27.125
60) 4-Methyl-2-Pentanone	(2)	7.330	43	1296666	26.598
61) Toluene	(3)	7.466	91	2732986	24.924
62) Octane	(3)	7.516	43	1355684	25.045
63) trans-1,3-Dichloropropene	(3)	7.630	75	1114101	26.983
65) Ethyl Methacrylate	(3)	7.673	69	1254552	27.666
66) 1,1,2-Trichloroethane	(3)	7.774	97	941334	26.046
67) Tetrachloroethene	(3)	7.874	166	1625392	25.408
68) 2-Hexanone	(3)	7.946	43	1234826	27.196
69) Dibromochloromethane	(3)	8.067	127	1305819	28.449
70) 1,2-Dibromoethane	(3)	8.168	107	1526914	27.123
71)*Chlorobenzene-d5	(3)	8.497	117	905013	10.000
72) Chlorobenzene	(3)	8.519	112	2401381	25.790
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	1278202	27.856
74) Ethylbenzene	(3)	8.583	91	3638907M	25.933
75) m/p-Xylene	(3)	8.669	91	2795070	25.233
76) o-Xylene	(3)	8.970	91	2791707	26.151
78) Styrene	(3)	8.984	104	2289083	28.238

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

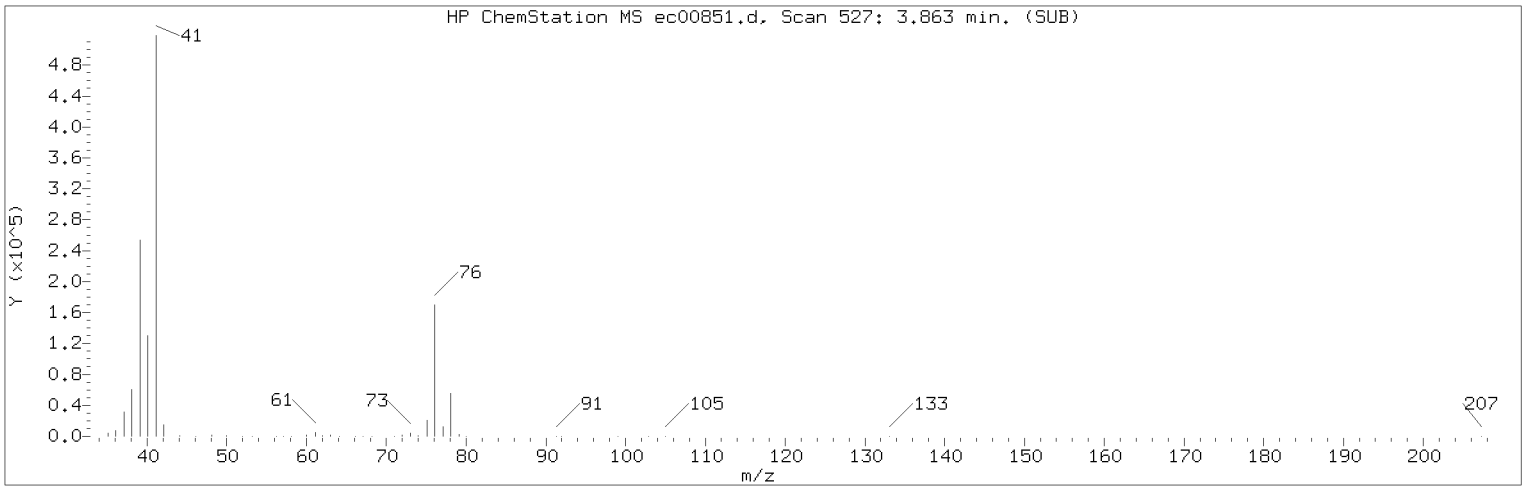
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	1802709	32.043
80) Cumene	(3)	9.242	105	4062324	26.936
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	1988409	28.777
81) Bromobenzene	(3)	9.493	156	1580336	27.882
83) 1,2,3-Trichloropropane	(3)	9.514	110	629848	27.021
84) n-Propylbenzene	(3)	9.550	120	1248820	27.636
86) 4-Ethyltoluene	(3)	9.629	105	4195556M	28.176
85) 2-Chlorotoluene	(3)	9.629	126	1133809	27.811
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	3408938M	27.920
88) Alpha Methyl Styrene	(3)	9.844	118	1813033	30.760
89) tert-Butylbenzene	(3)	9.923	119	3422002M	28.069
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	3378666	28.860
91) sec-Butylbenzene	(3)	10.087	105	4953541	28.869
92) 1,3-Dichlorobenzene	(3)	10.188	146	2618908	29.568
94) p-Isopropyltoluene	(3)	10.188	119	4380917	30.071
93) 1,4-Dichlorobenzene	(3)	10.259	146	2646045	29.444
95) Benzyl Chloride	(3)	10.360	91	2718279	35.131
97) n-Butylbenzene	(3)	10.503	91	3783548	31.322
96) 1,2-Dichlorobenzene	(3)	10.546	146	2446768	30.611
98) Hexachloroethane	(3)	10.732	117	1220633	35.899
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	1223427	39.127
100) 1,2,4-Trichlorobenzene	(3)	11.756	180	1806182	37.669
101) Hexachlorobutadiene	(3)	11.871	225	1634384	37.951
102) Naphthalene	(3)	11.964	128	3474330	39.956
64) 1,3-Dichloropropene (total)	(3)		75	2423780	53.763
77) Xylene (total)	(3)		91	5586777	51.367

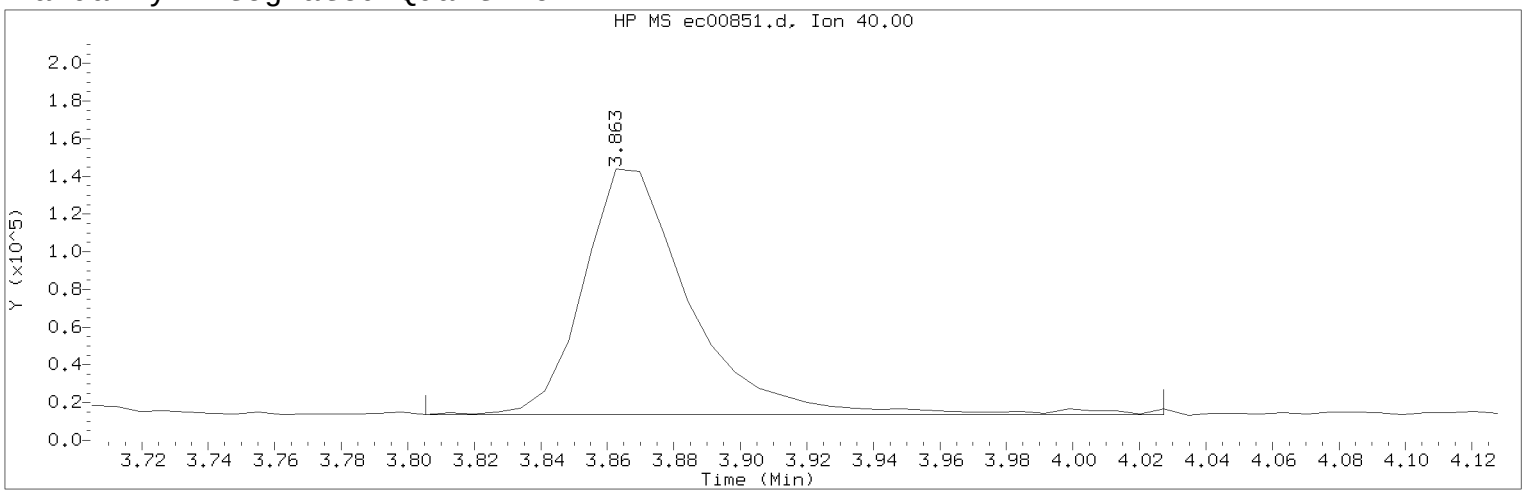
M = Compound was manually integrated.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

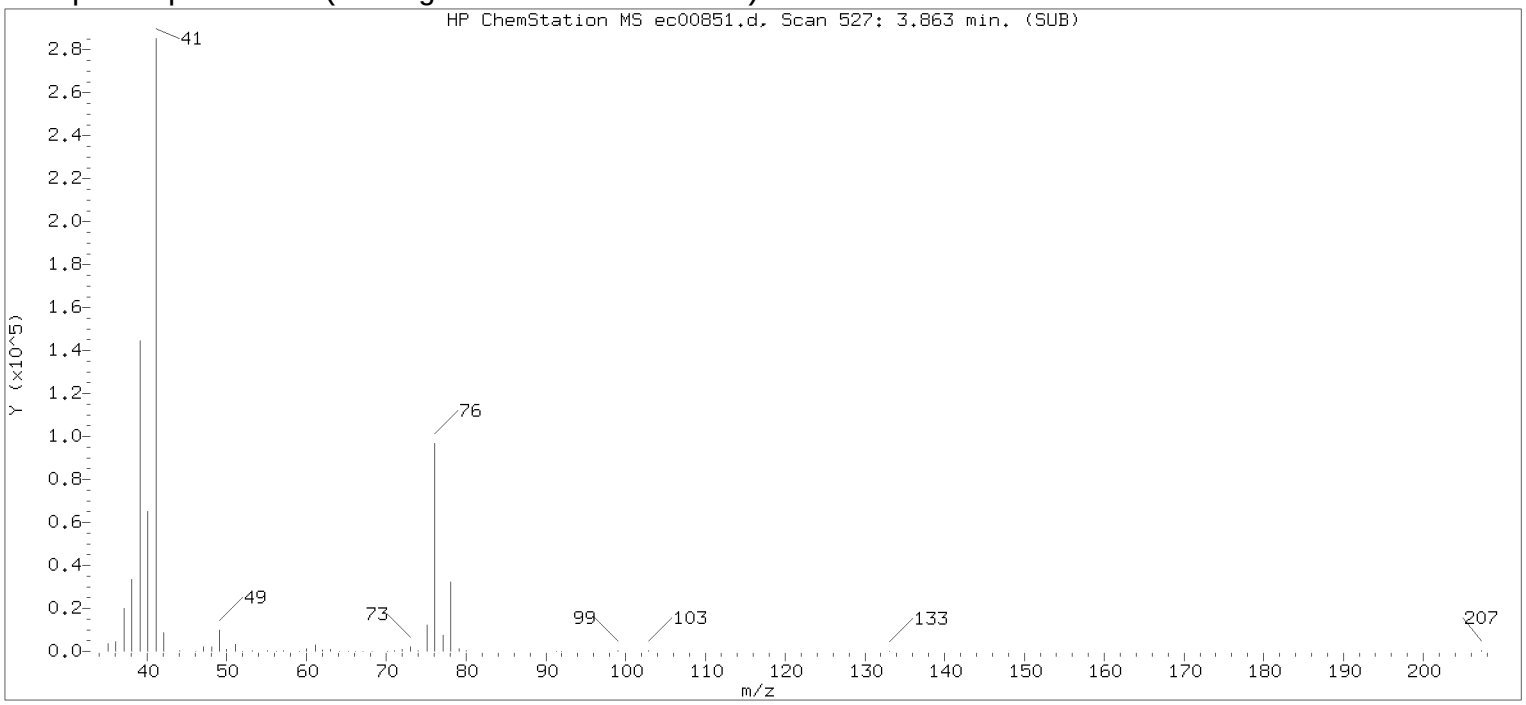
Compound Number : 23
Compound Name : Acetonitrile
Scan Number : 527
Retention Time (minutes): 3.863
Quant Ion : 40.00
Area (flag) : 296339M
Concentration (ppb(v)) : 22.3544
Integration start scan : 518 Integration stop scan: 549
Y at integration start : 13505 Y at integration end: 13505

Reason for manual integration: improper integration

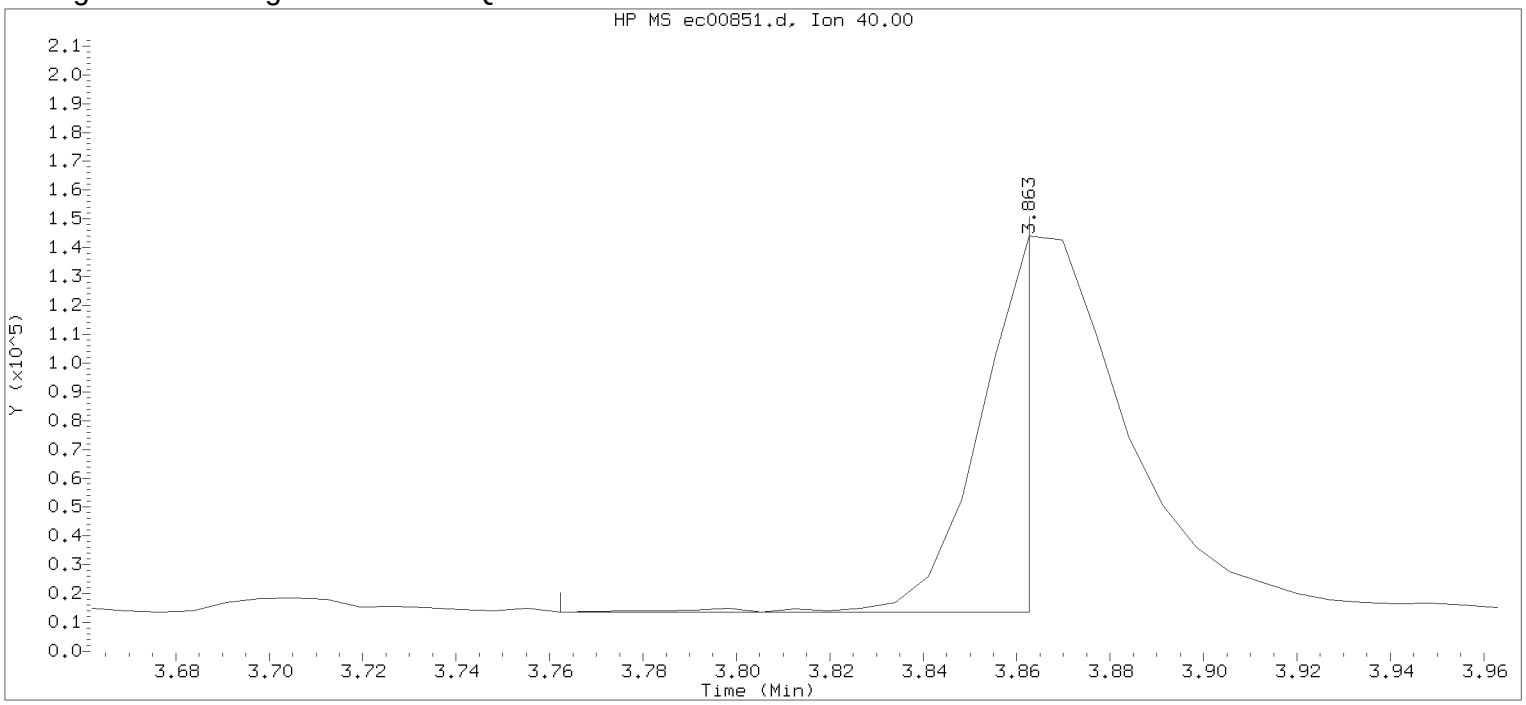
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

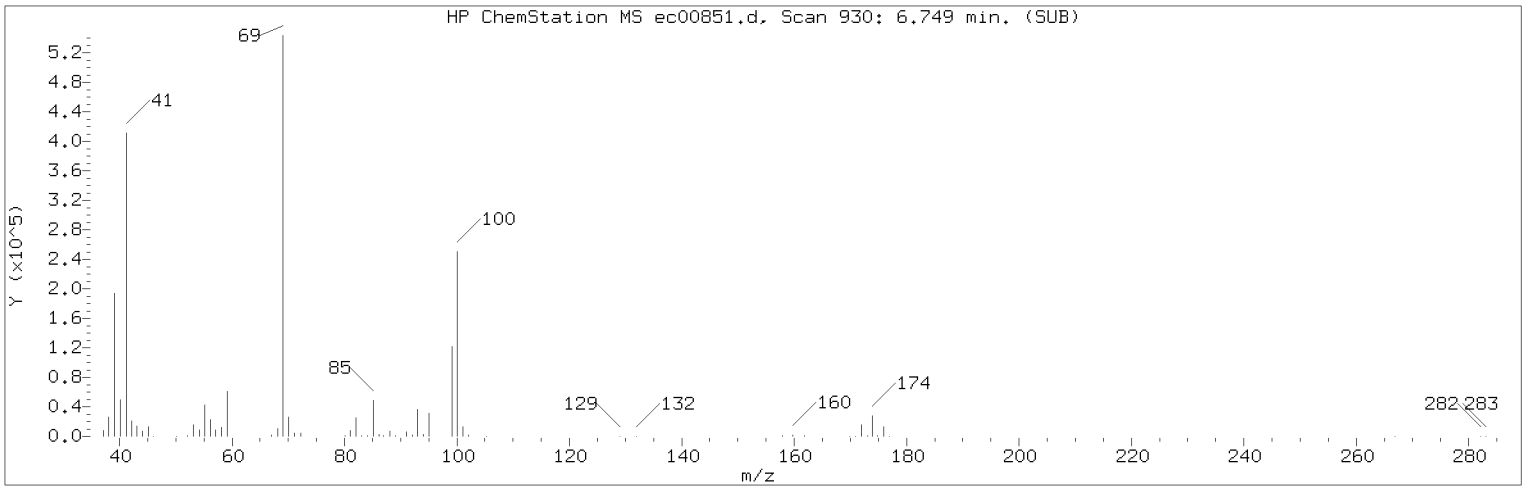
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:02 Unknown

Sample Name: VSTD025 Lab Sample ID: VSTD025

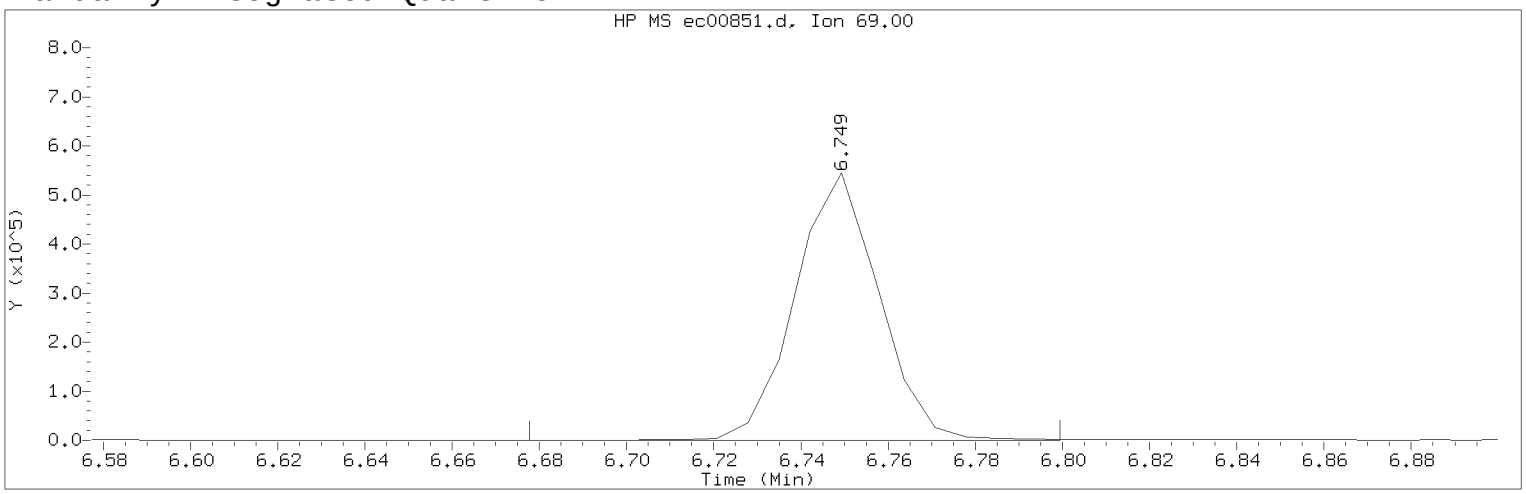
Compound Number : 23
Compound Name : Acetonitrile
Scan Number : 527
Retention Time (minutes): 3.863
Quant Ion : 40.00
Area : 92024
Concentration (ppb(v)) : 6.7877
Integration start scan : 512 Integration stop scan: 526
Y at integration start : 13650 Y at integration end: 13650

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ER01a

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

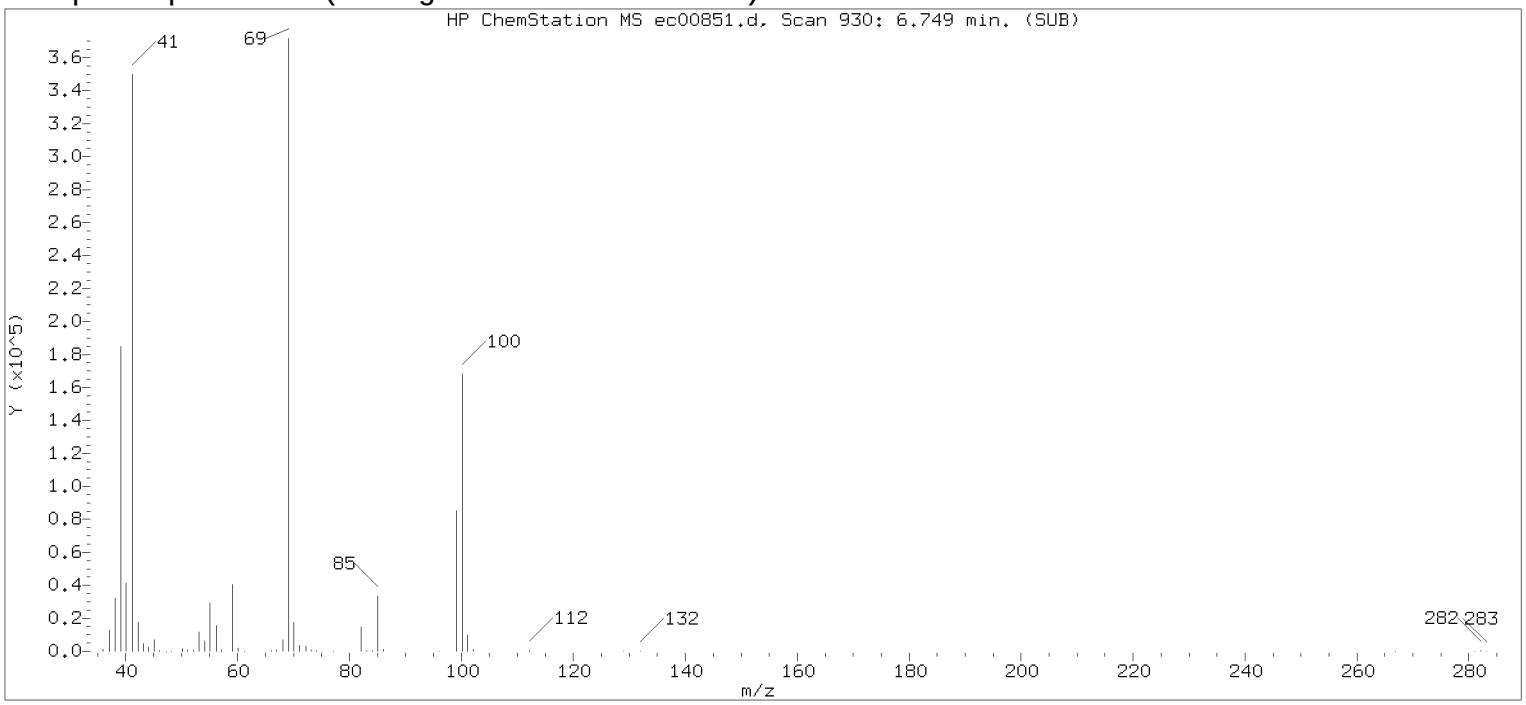
Compound Number : 57
Compound Name : Methyl Methacrylate
Scan Number : 930
Retention Time (minutes): 6.749
Quant Ion : 69.00
Area (flag) : 724086M
Concentration (ppb(v)) : 25.9894
Integration start scan : 919 Integration stop scan: 936
Y at integration start : 170 Y at integration end: 170

Reason for manual integration: improper integration

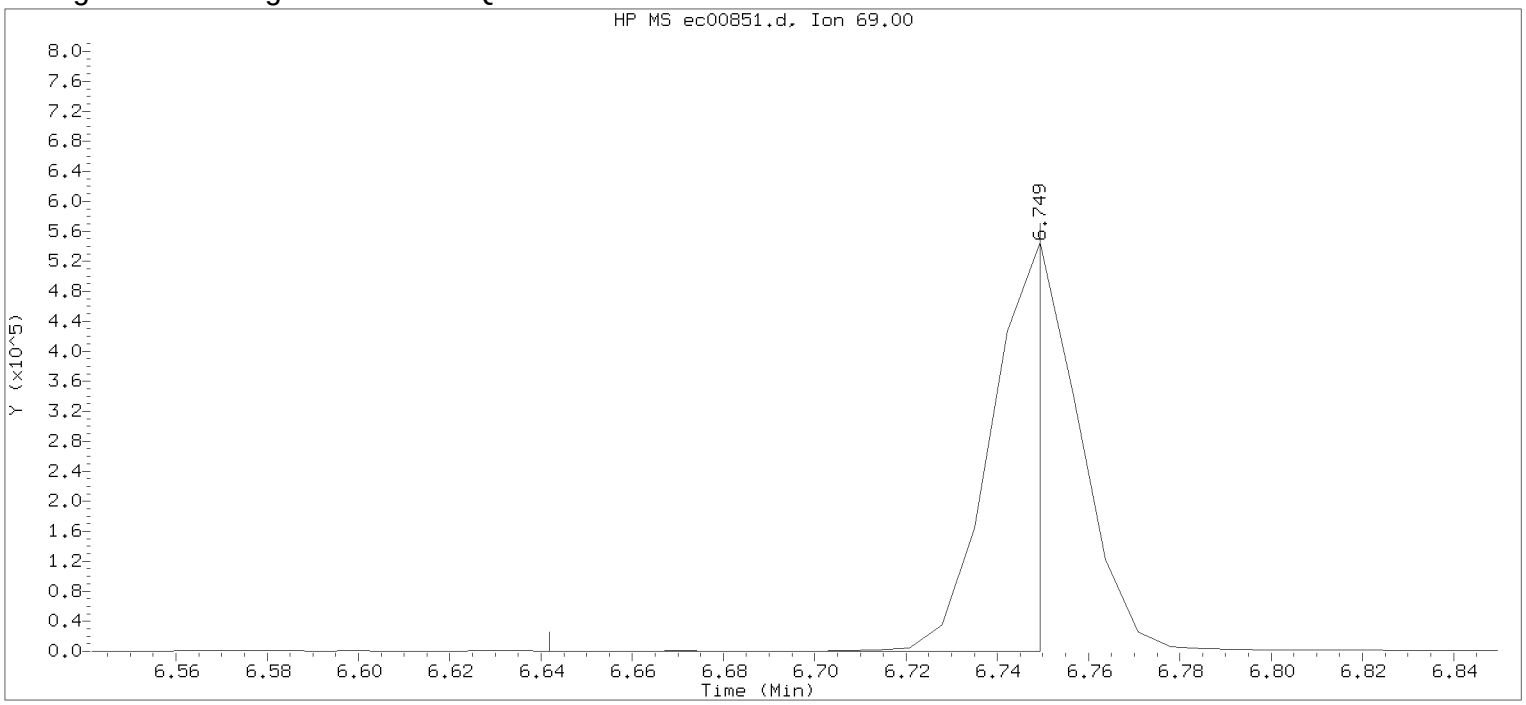
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

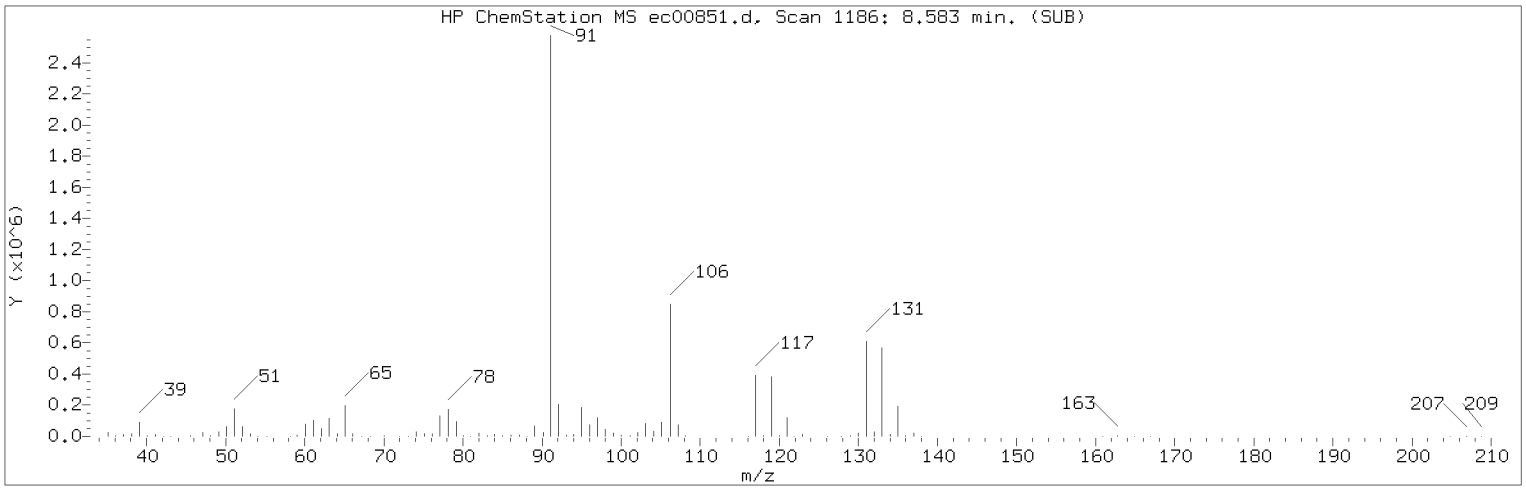
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:02 Unknown

Sample Name: VSTD025 Lab Sample ID: VSTD025

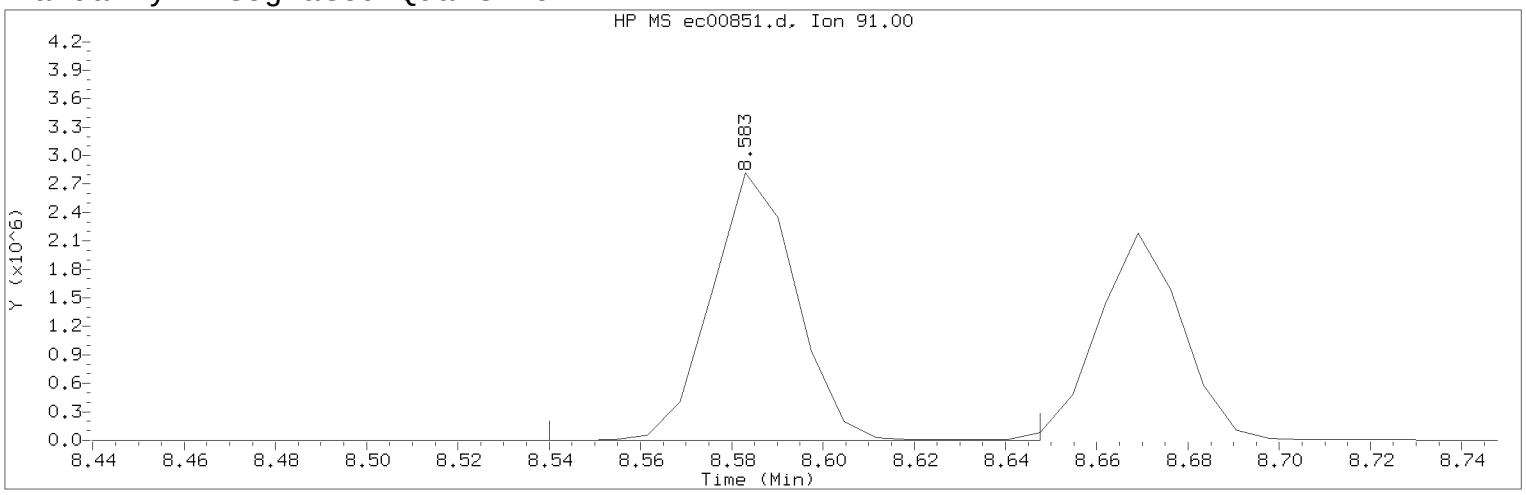
Compound Number : 57
Compound Name : Methyl Methacrylate
Scan Number : 930
Retention Time (minutes): 6.749
Quant Ion : 69.00
Area : 389528
Concentration (ppb(v)) : 10.4644
Integration start scan : 914 Integration stop scan: 929
Y at integration start : 221 Y at integration end: 221

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

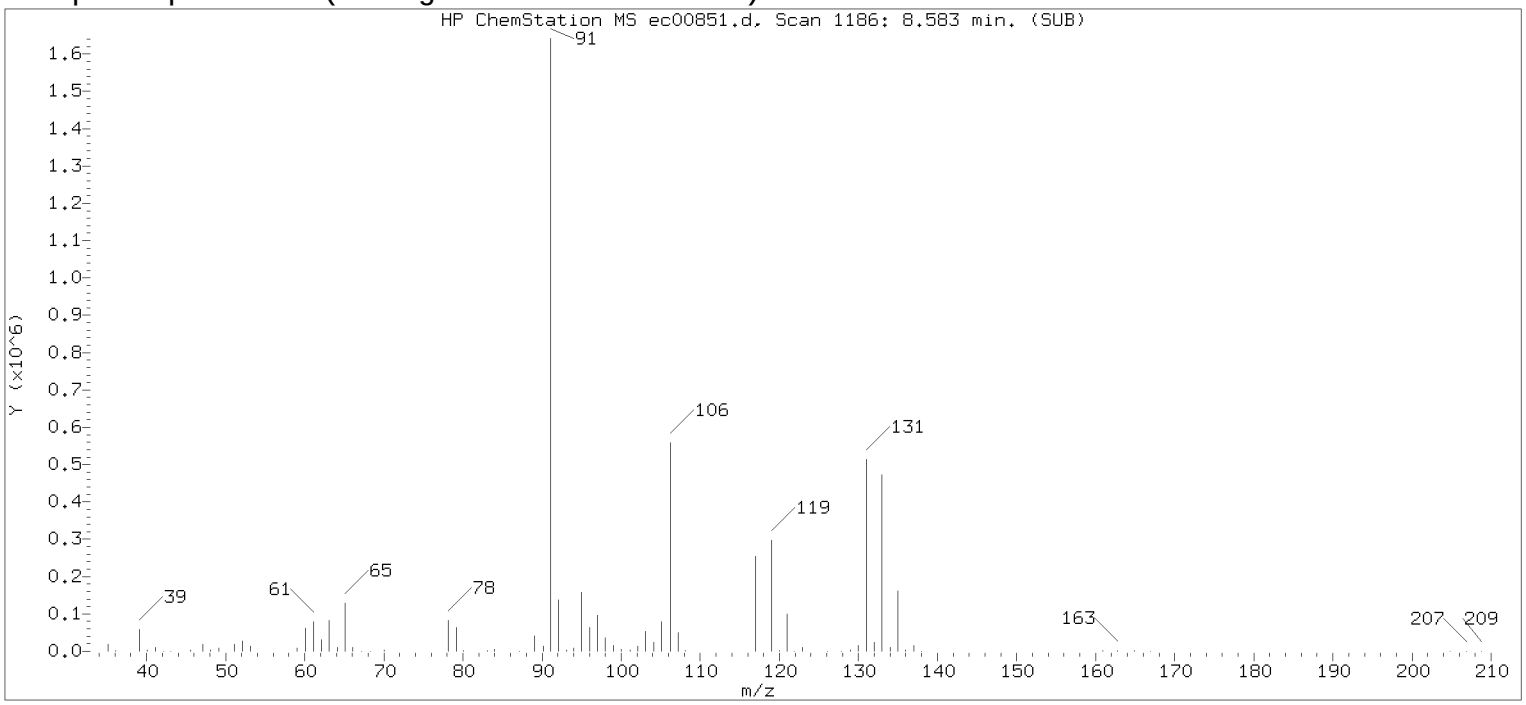
Compound Number : 74
Compound Name : Ethylbenzene
Scan Number : 1186
Retention Time (minutes): 8.583
Quant Ion : 91.00
Area (flag) : 3638907M
Concentration (ppb(v)) : 25.9335
Integration start scan : 1179 Integration stop scan: 1194
Y at integration start : 525 Y at integration end: 525

Reason for manual integration: improper integration

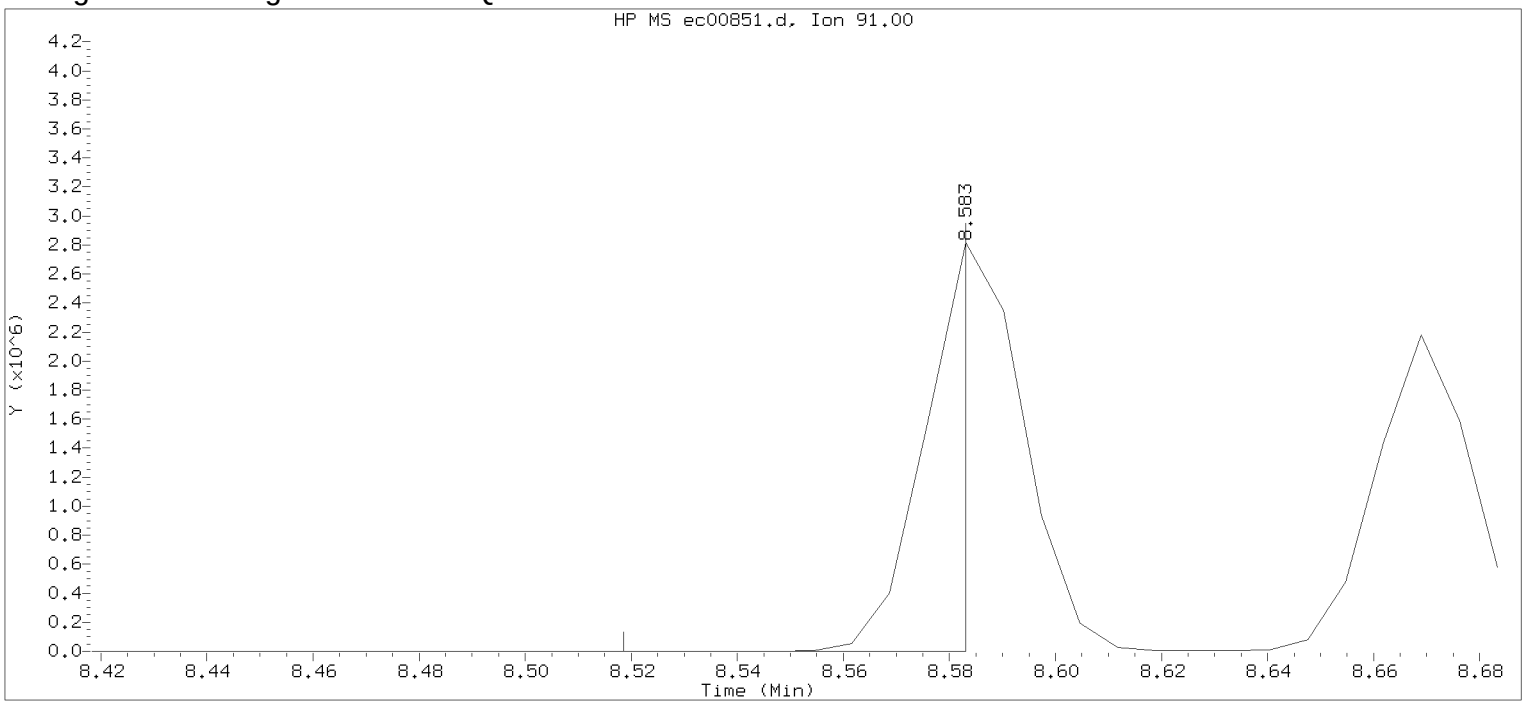
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

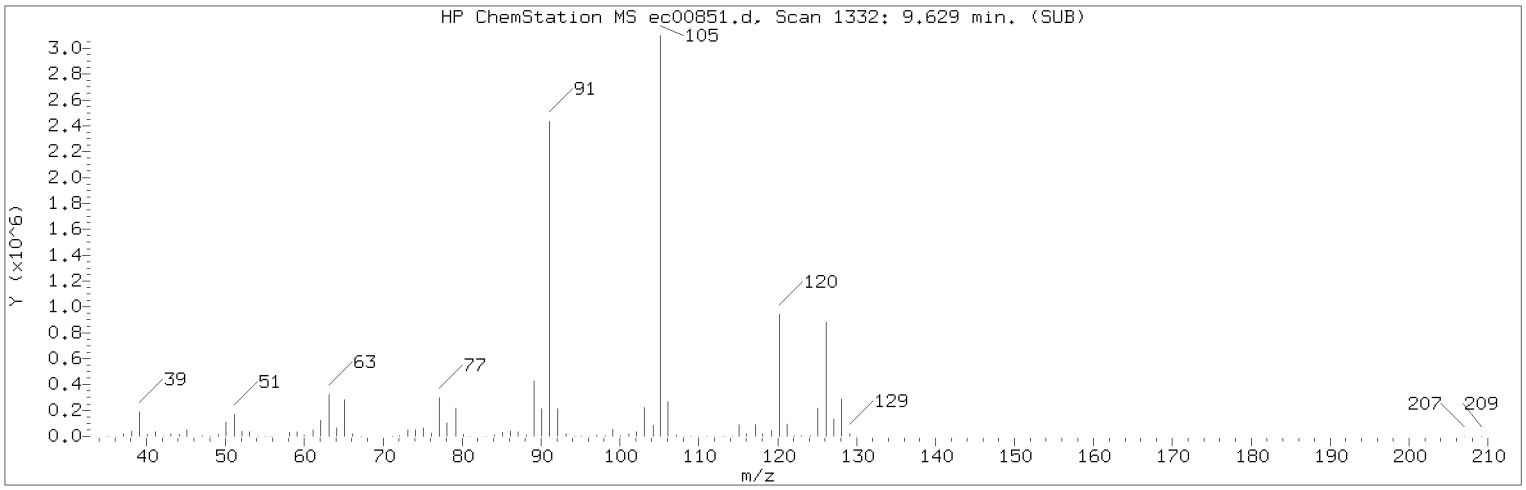
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:02 Unknown

Sample Name: VSTD025 Lab Sample ID: VSTD025

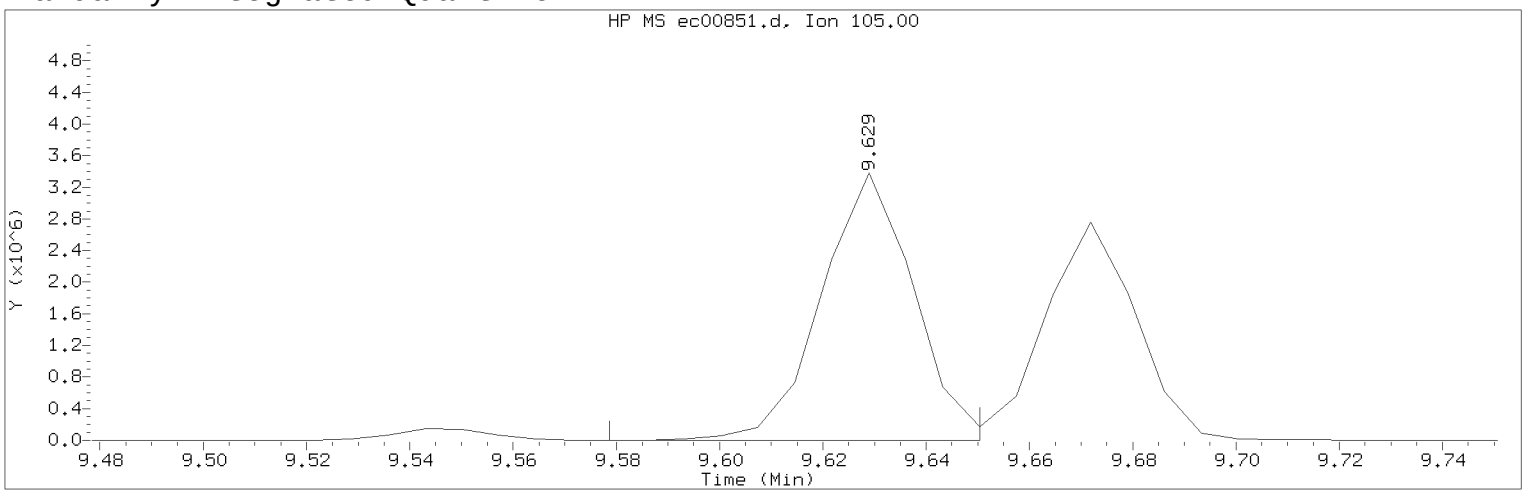
Compound Number : 74
Compound Name : Ethylbenzene
Scan Number : 1186
Retention Time (minutes): 8.583
Quant Ion : 91.00
Area : 1483652
Concentration (ppb(v)) : 8.4991
Integration start scan : 1176 Integration stop scan: 1185
Y at integration start : 575 Y at integration end: 575

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

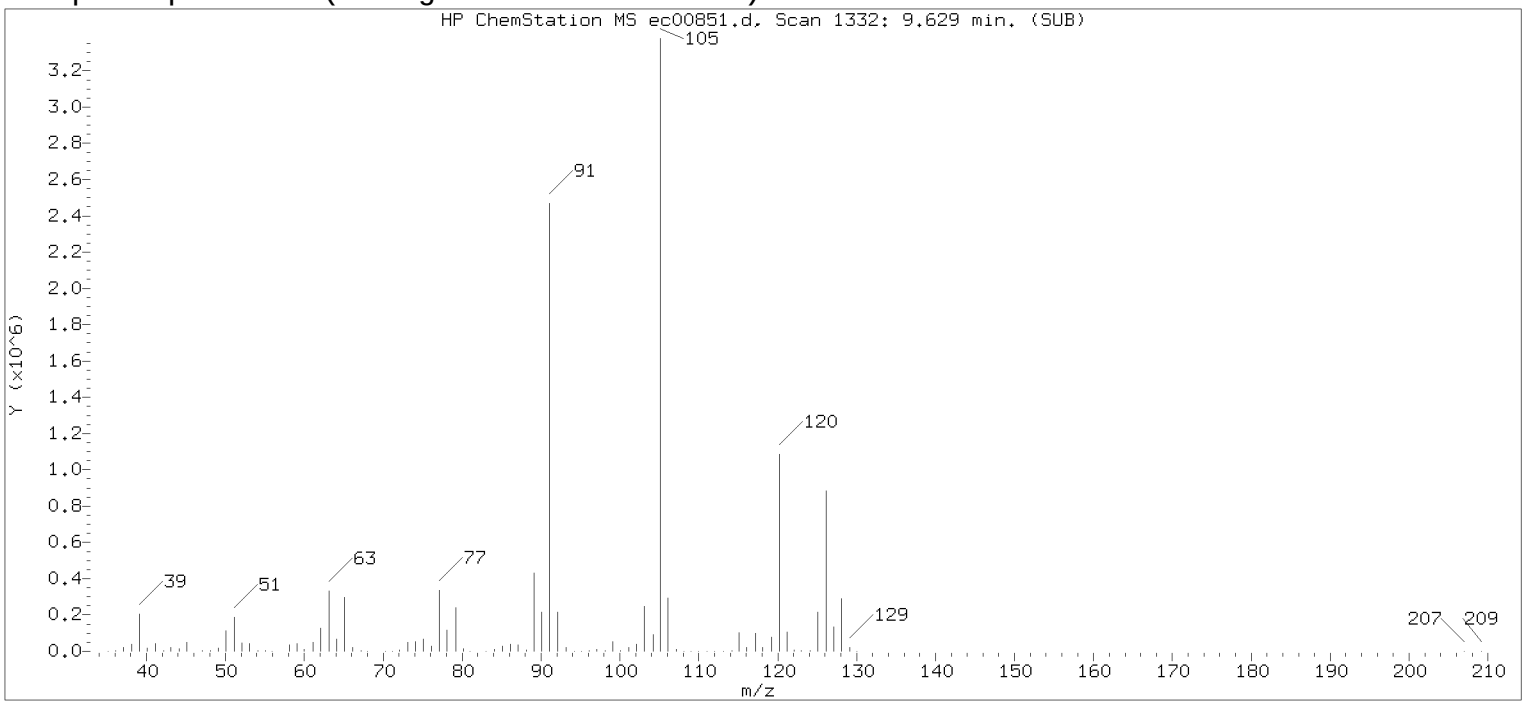
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 4195556M
Concentration (ppb(v)) : 28.1759
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 1381 Y at integration end: 1381

Reason for manual integration: improper integration

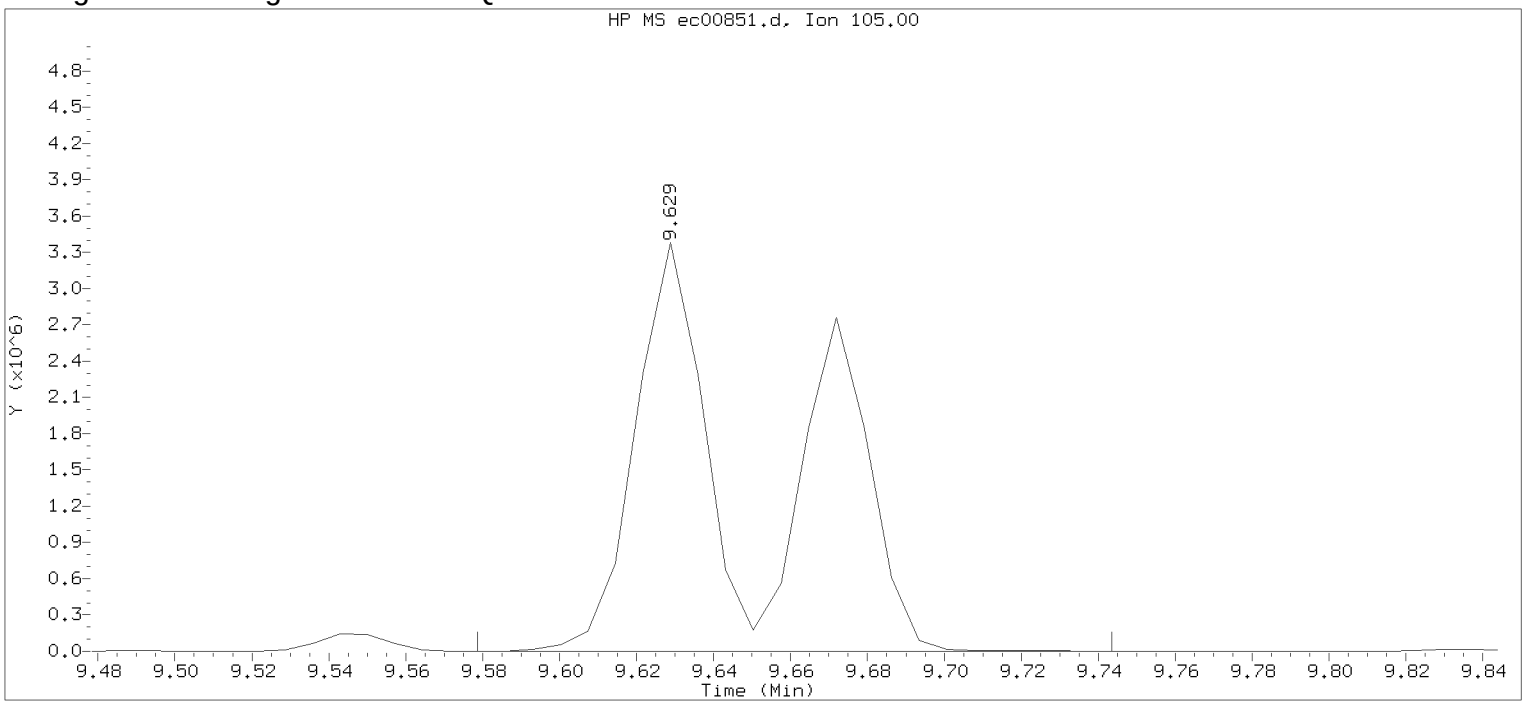
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

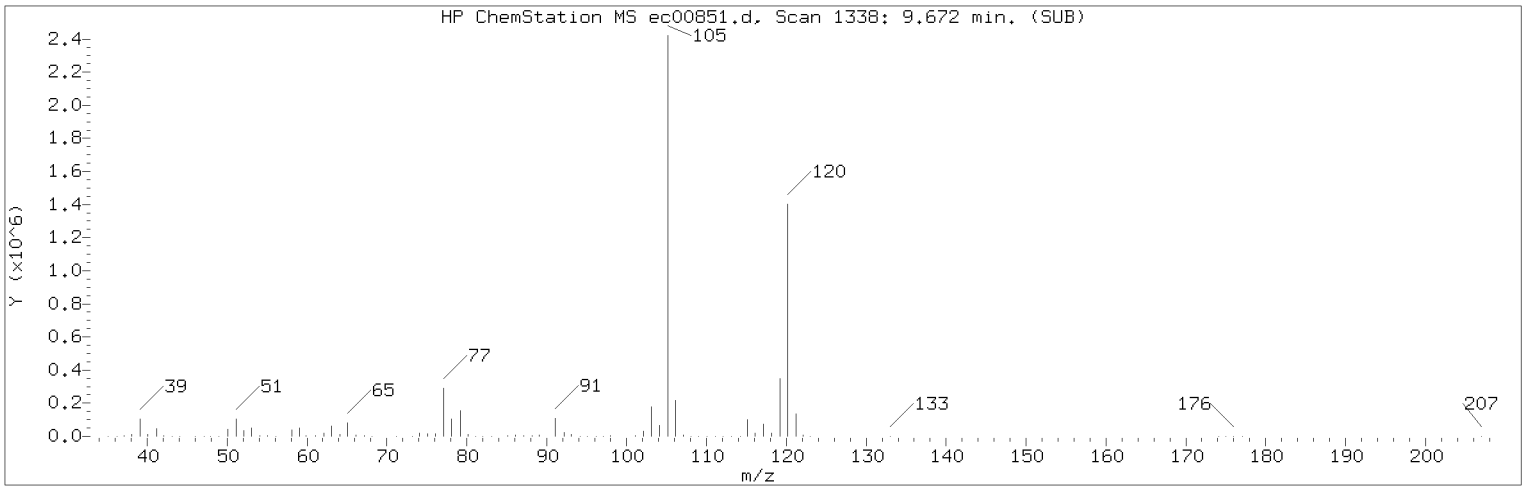
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:02 Unknown

Sample Name: VSTD025 Lab Sample ID: VSTD025

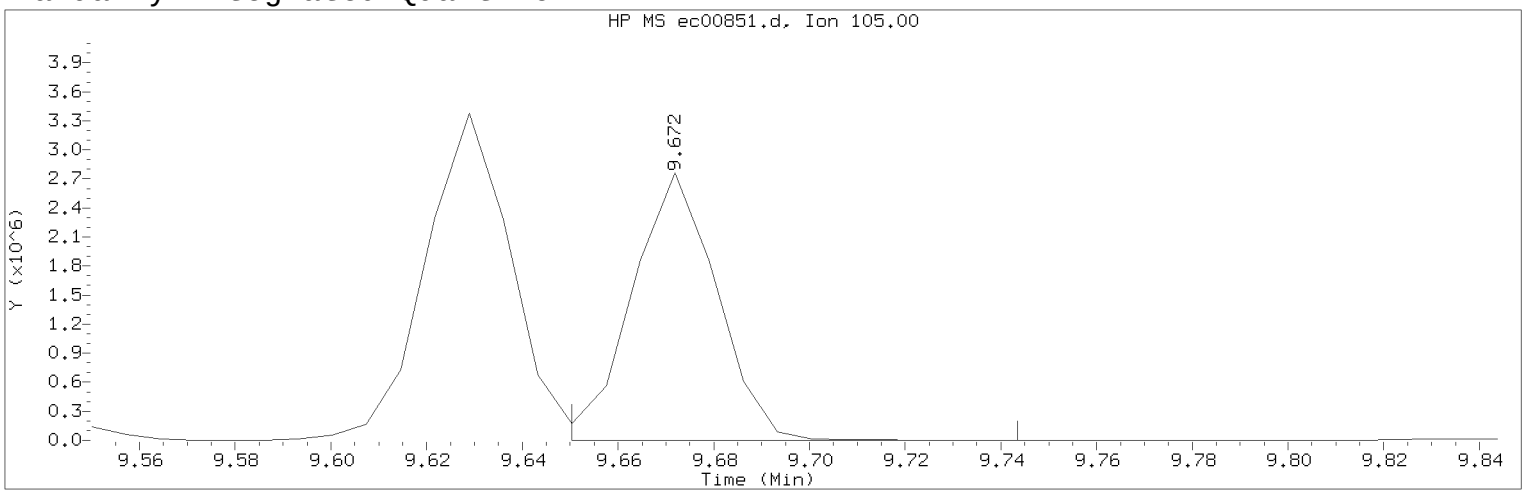
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 7540176
Concentration (ppb(v)) : 37.6397
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 642 Y at integration end: 642

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

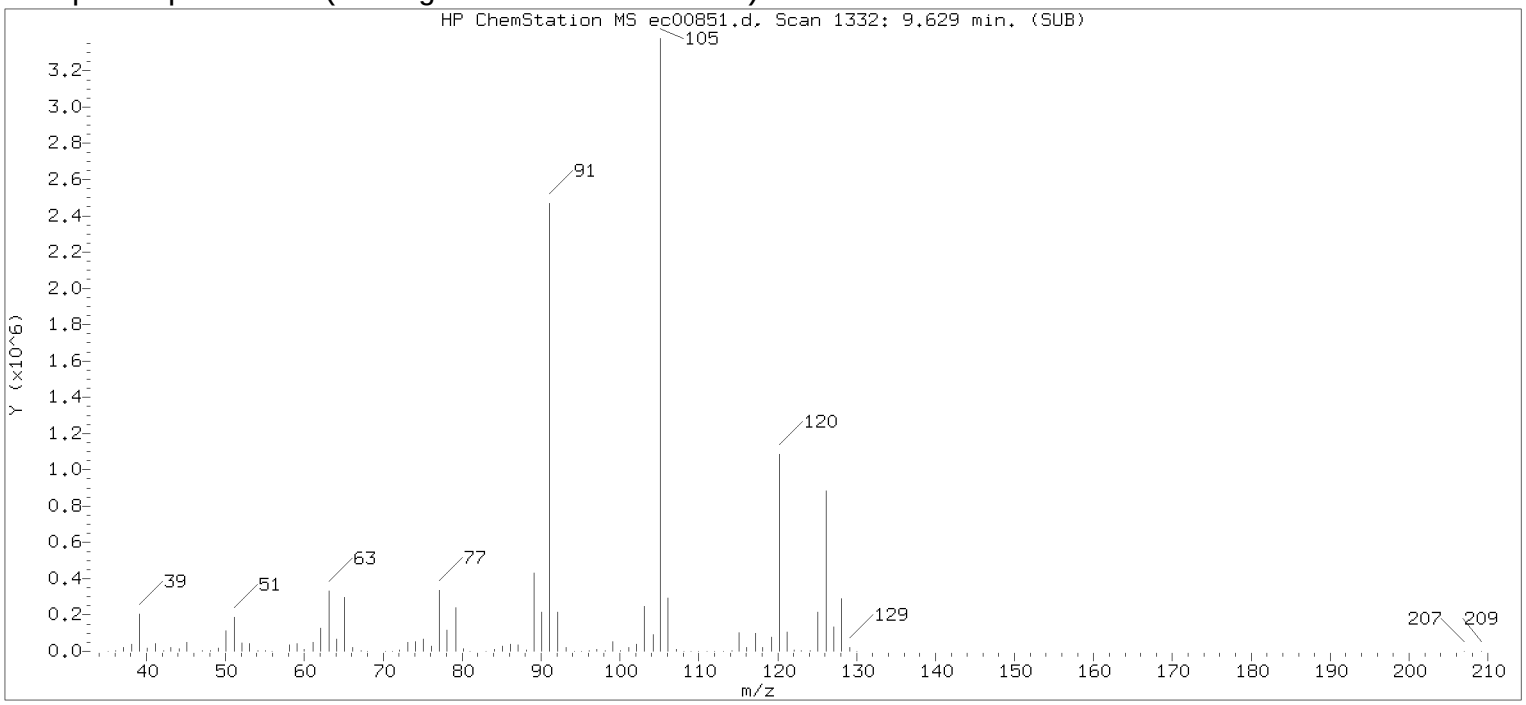
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 3408938M
Concentration (ppb(v)) : 27.9204
Integration start scan : 1334 Integration stop scan: 1347
Y at integration start : 1739 Y at integration end: 1739

Reason for manual integration: improper integration

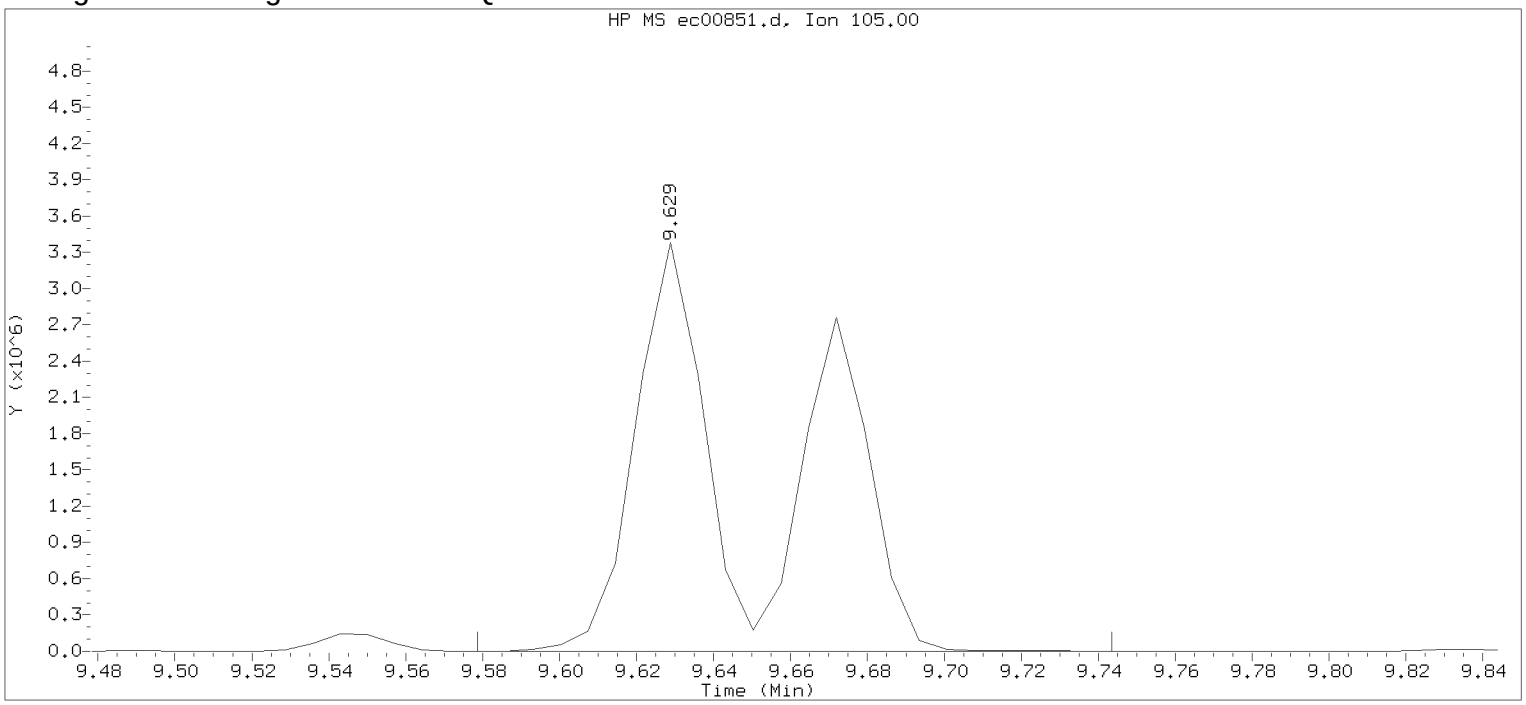
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

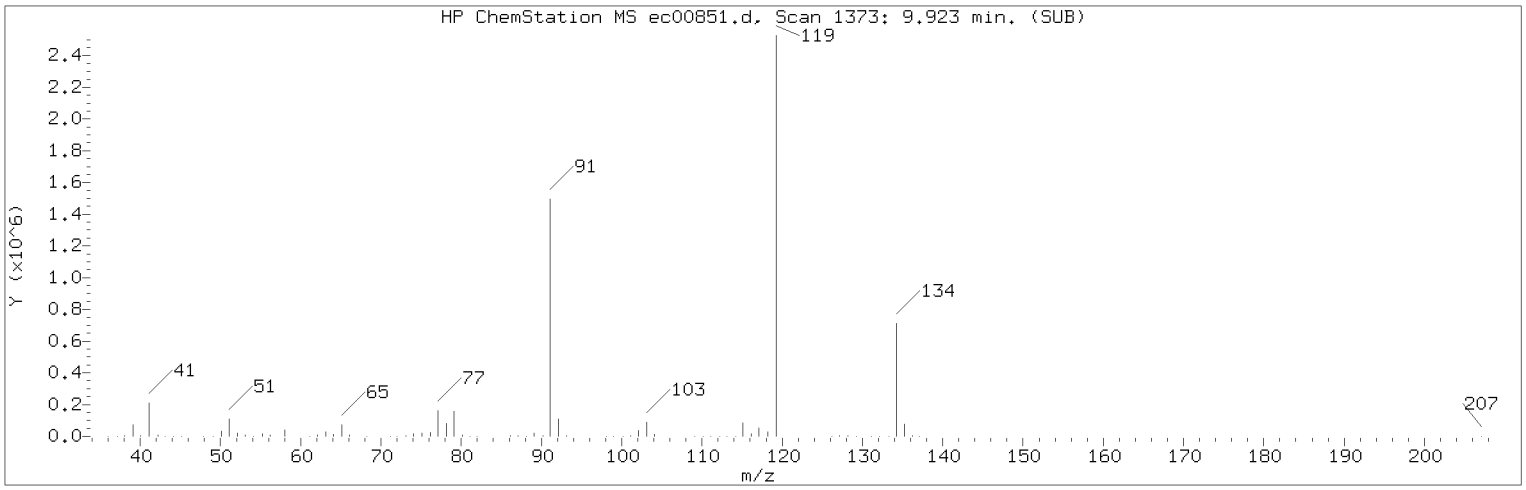
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:02 Unknown

Sample Name: VSTD025 Lab Sample ID: VSTD025

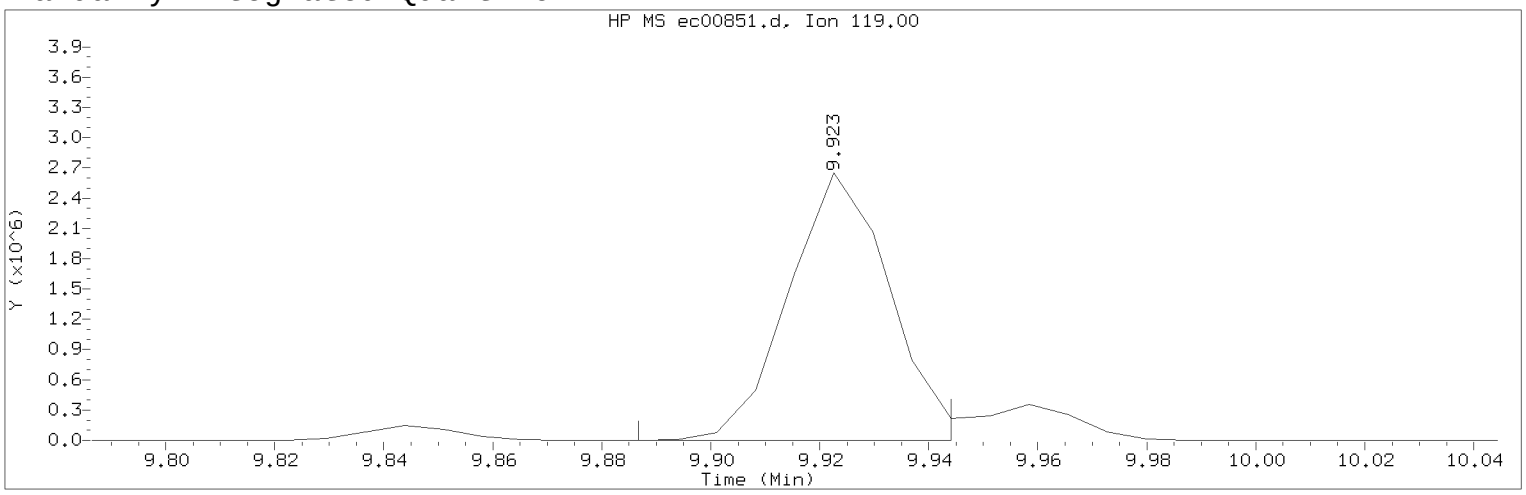
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 7532870
Concentration (ppb(v)) : 45.3362
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 1381 Y at integration end: 1381

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ER01a

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD025 Lab Sample ID: VSTD025

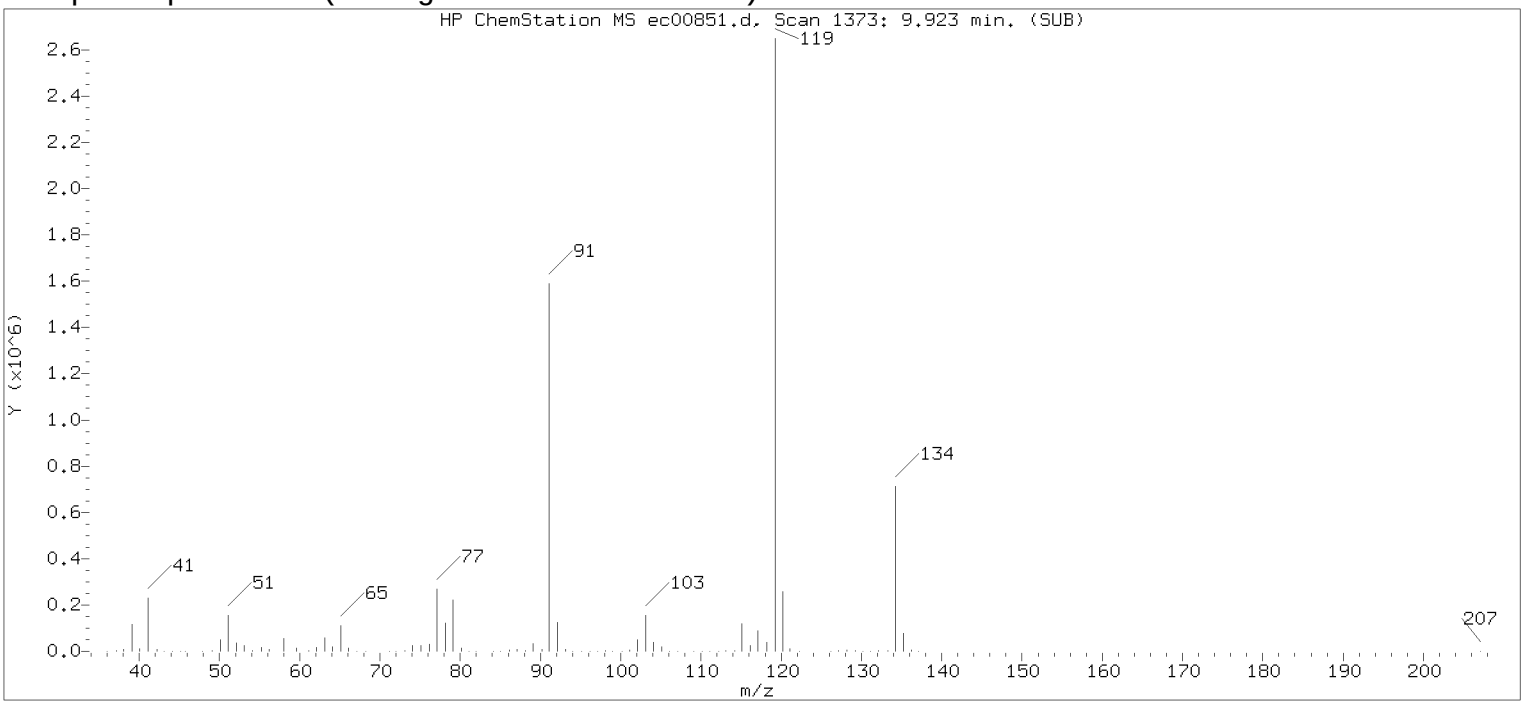
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area (flag) : 3422002M
Concentration (ppb(v)) : 28.0687
Integration start scan : 1367 Integration stop scan: 1375
Y at integration start : 354 Y at integration end: 354

Reason for manual integration: improper integration

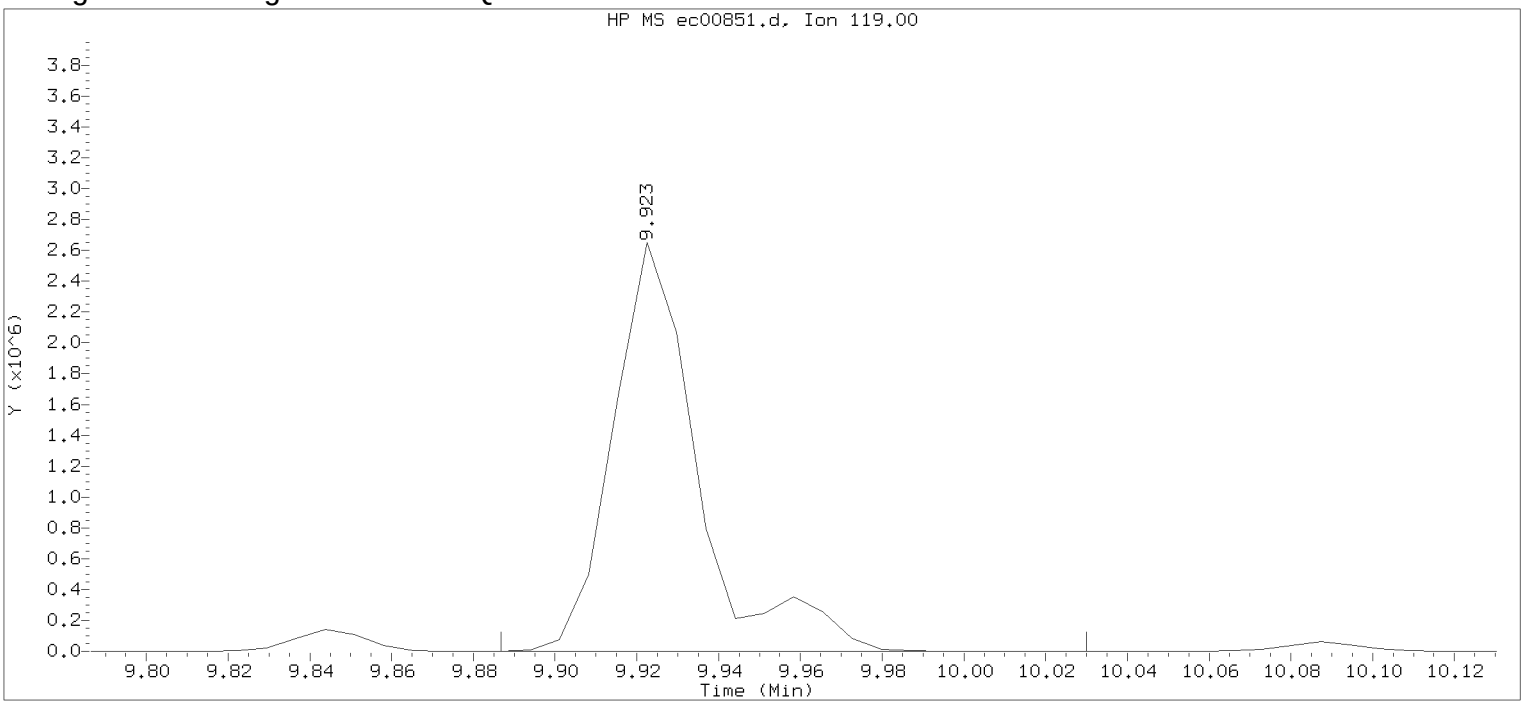
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



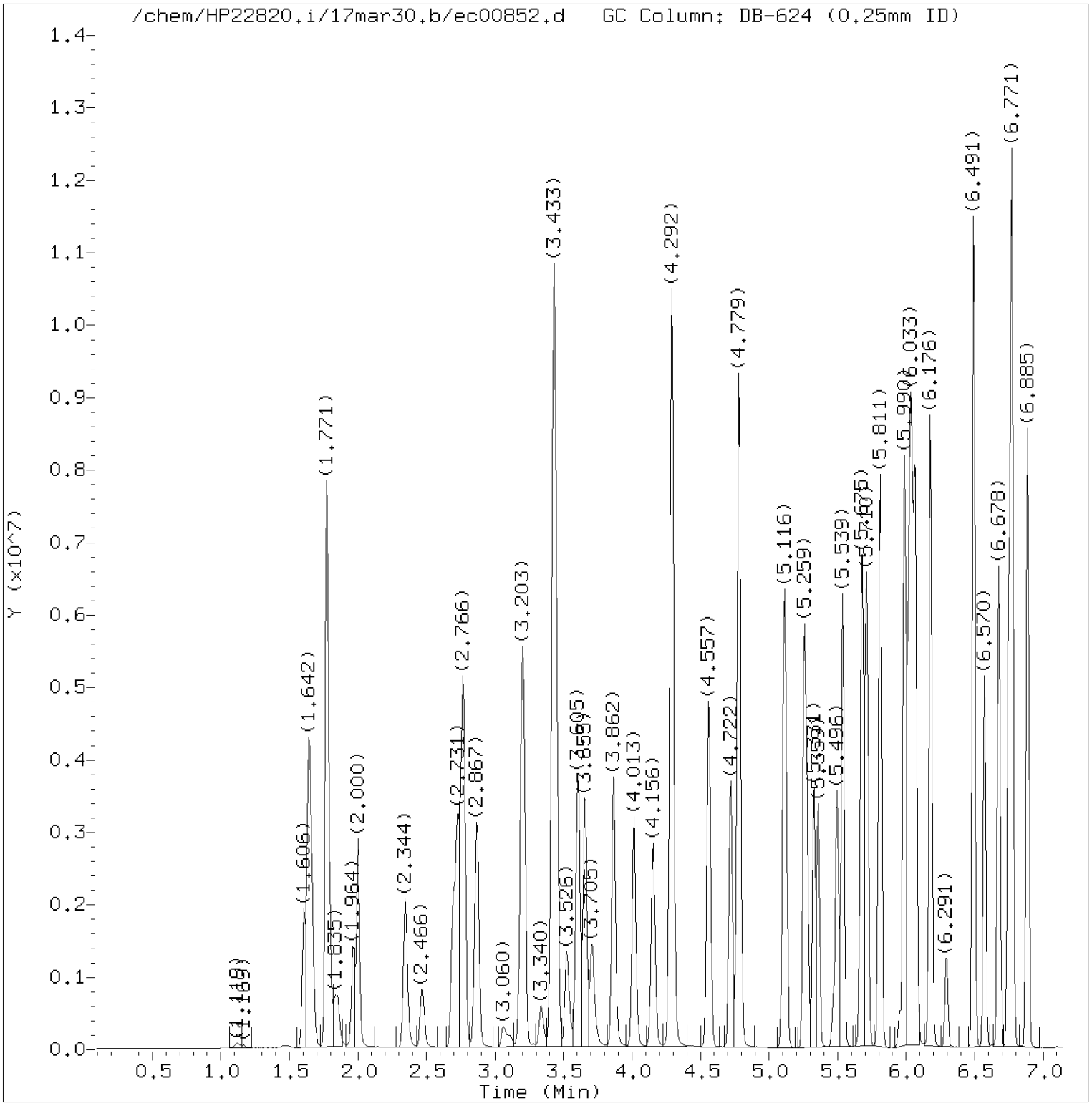
Data File: /chem/HP22820.i/17mar30.b/ec00851.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 21:43 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:02 Unknown

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.923
Quant Ion : 119.00
Area : 3833923
Concentration (ppb(v)) : 22.9598
Integration start scan : 1367 Integration stop scan: 1387
Y at integration start : 211 Y at integration end: 211

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: 1a07273



Total Ion Chromatogram (TIC)

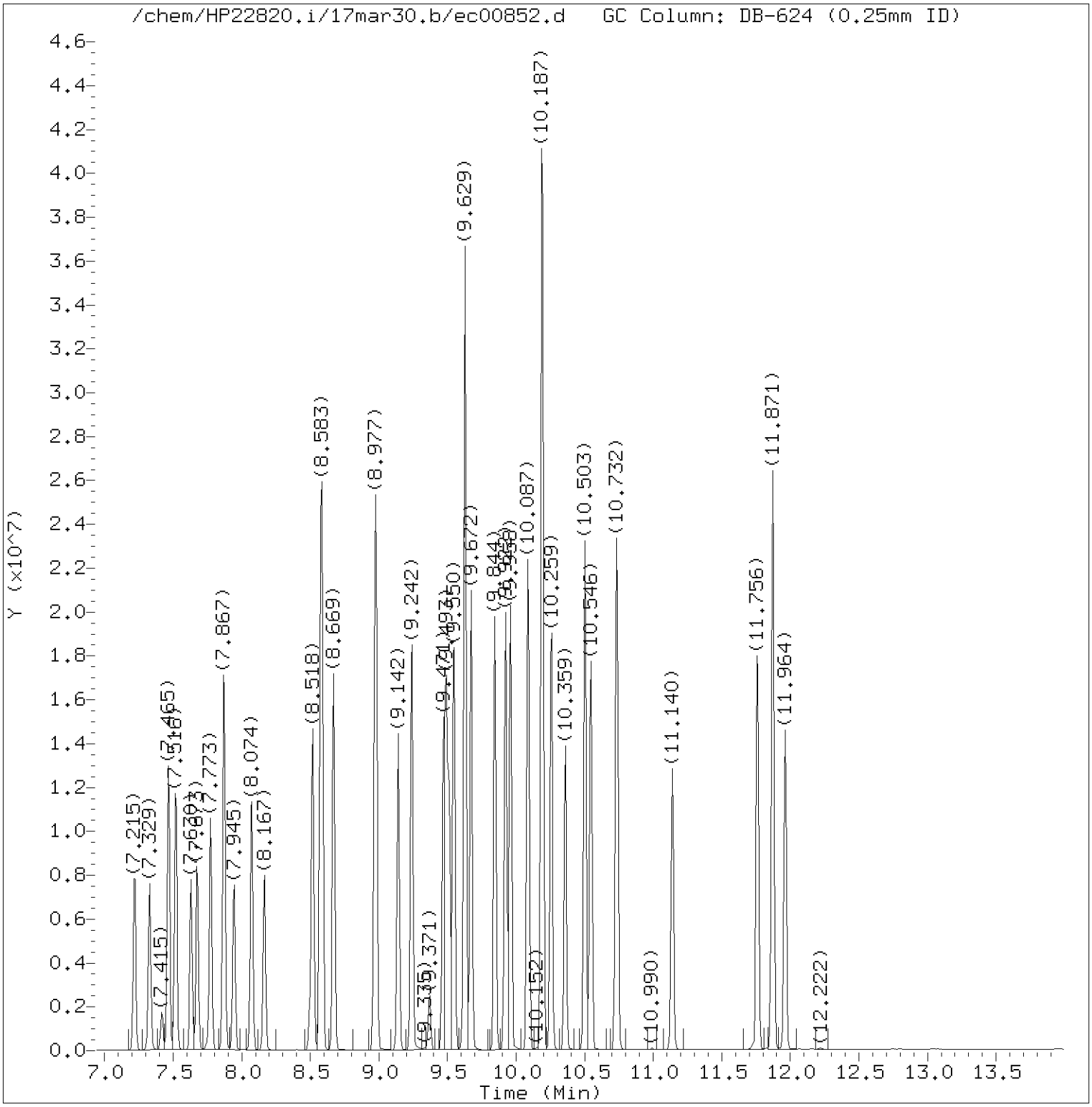
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.606	41	1083486	69.731
2) Dichlorodifluoromethane	(1)	1.642	85	4546918	72.960
3) Chlorodifluoromethane	(1)	1.663	51	2288980	70.563
4) Freon 114	(1)	1.771	85	4654876	71.324
5) Chloromethane	(1)	1.850	50	992142	59.331
6) Vinyl Chloride	(1)	1.964	62	1706825	72.787
7) 1,3-Butadiene	(1)	2.000	54	1238440	71.853
8) Bromomethane	(1)	2.344	94	1686321	70.291
9) Chloroethane	(1)	2.466	64	942862	72.167
10) Bromoethene	(1)	2.695	106	1910320	73.206
11) Dichlorofluoromethane	(1)	2.731	67	3683585	72.031
12) Trichlorofluoromethane	(1)	2.766	101	4813703	71.787
13) Pentane	(1)	2.867	43	2499730	71.289
14) Ethanol	(1)	3.060	45	486322M	82.625
15) Freon123a	(1)	3.203	67	3460260	69.774
16) Acrolein	(1)	3.340	56	674114	74.599
17) 1,1-Dichloroethene	(1)	3.425	61	2624622	72.396
18) Freon 113	(1)	3.440	103	2740449	69.394
19) Acetone	(1)	3.526	43	2026282	72.099
20) Methyl Iodide	(1)	3.605	142	5297392	71.870
21) Carbon Disulfide	(1)	3.662	76	5214192	72.602
22) Isopropanol	(1)	3.712	45	2240026	89.620
24) 3-Chloropropene	(1)	3.862	76	902992	83.088
23) Acetonitrile	(1)	3.870	40	804955	61.789
25) Methylene Chloride	(1)	4.013	84	1739127	81.353
26) tert-Butyl Alcohol	(1)	4.156	59	3682558	89.328
29) Methyl t-Butyl Ether	(1)	4.285	73	5166706	70.864
28) trans-1,2-Dichloroethene	(1)	4.292	61	2436389	72.456
27) Acrylonitrile	(1)	4.299	53	1361494	72.760
30) Hexane	(1)	4.557	57	2596998	71.326
31) 1,1-Dichloroethane	(1)	4.722	63	3189563	72.139
32) Vinyl Acetate	(1)	4.779	86	593203	99.031
33) Di-Isopropyl Ether	(1)	4.779	45	4992620	70.871
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	5376585	72.894
35) cis-1,2-Dichloroethene	(1)	5.259	61	2342547	73.091
37) 2-Butanone	(1)	5.281	72	970280	75.418
38) Ethyl Acetate	(1)	5.331	70	477206	69.066
39) Methyl Acrylate	(1)	5.359	55	2966342	76.364

M = Compound was manually integrated.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.474	130	247499	10.000
41) Tetrahydrofuran	(1)	5.496	42	1681059	72.533
42) Chloroform	(1)	5.539	83	3991222	71.632
43) 1,1,1-Trichloroethane	(1)	5.675	97	4077822	72.372
44) Cyclohexane	(1)	5.710	56	2713226	71.126
45) Carbon Tetrachloride	(1)	5.811	117	4354185	74.426
46) Benzene	(2)	5.990	78	6134768	71.154
47) 1,2-Dichloroethane	(2)	6.011	62	2334807	71.885
48) Isooctane	(2)	6.033	57	8476385	71.458
49) Tert-Amyl Methyl Ether	(2)	6.069	73	5719804	73.119
50) Heptane	(2)	6.176	43	2742161	69.816
51)*1,4-Difluorobenzene	(2)	6.298	114	929368	10.000
52) Trichloroethene	(2)	6.491	130	3299005	74.254
53) Ethyl Acrylate	(2)	6.570	55	3895740	77.691
36) 1,2-Dichloroethene (total)	(1)		61	4778936	145.547
54) 1,2-Dichloropropane	(2)	6.678	63	2078654	70.466
57) Methyl Methacrylate	(2)	6.749	69	2158887	75.103
56) 1,4-Dioxane	(2)	6.771	88	1553326	75.176
55) Dibromomethane	(2)	6.771	174	3290875	75.243
58) Bromodichloromethane	(2)	6.885	83	4254817	75.680
59) cis-1,3-Dichloropropene	(2)	7.215	75	3808056	76.199
60) 4-Methyl-2-Pentanone	(2)	7.329	43	3683411	73.558
61) Toluene	(3)	7.465	91	7638062	68.692
62) Octane	(3)	7.516	43	3642271	66.727
63) trans-1,3-Dichloropropene	(3)	7.630	75	3301381	76.989
65) Ethyl Methacrylate	(3)	7.673	69	3690725	79.964
66) 1,1,2-Trichloroethane	(3)	7.773	97	2729953	73.477
67) Tetrachloroethene	(3)	7.874	166	4700913	71.822
68) 2-Hexanone	(3)	7.945	43	3485568	74.461
69) Dibromochloromethane	(3)	8.074	127	3955787	81.815
70) 1,2-Dibromoethane	(3)	8.167	107	4399880	75.565
71)*Chlorobenzene-d5	(3)	8.497	117	921145	10.000
72) Chlorobenzene	(3)	8.518	112	6876033	72.114
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	3779722	78.876
74) Ethylbenzene	(3)	8.583	91	9855754	69.172
75) m/p-Xylene	(3)	8.669	91	7803622	69.345
76) o-Xylene	(3)	8.970	91	7777345	71.309
78) Styrene	(3)	8.984	104	6529073	79.133

* = Compound is an internal standard.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

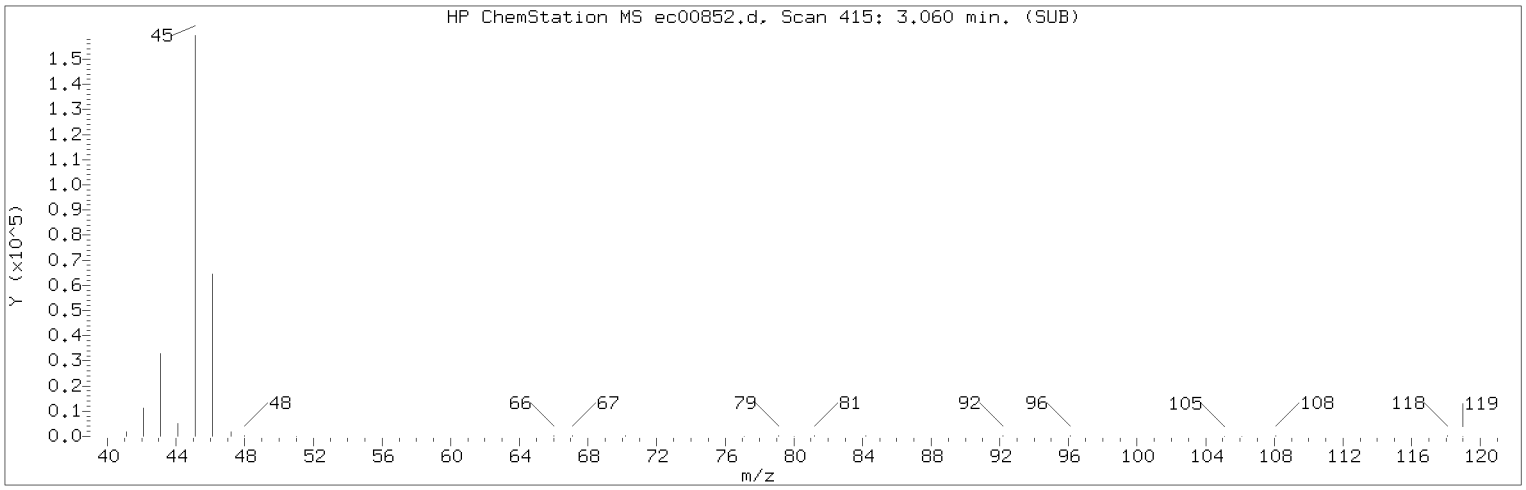
Sample Name: VSTD070 Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	5641711	92.259
80) Cumene	(3)	9.242	105	11128690	72.500
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	5606983	77.922
81) Bromobenzene	(3)	9.493	156	4499025	76.531
83) 1,2,3-Trichloropropane	(3)	9.514	110	1788858	74.443
84) n-Propylbenzene	(3)	9.550	120	3587093	76.535
86) 4-Ethyltoluene	(3)	9.629	105	11166738M	73.679
85) 2-Chlorotoluene	(3)	9.629	126	3215052	76.125
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	9410633M	74.708
88) Alpha Methyl Styrene	(3)	9.844	118	5359892	89.343
89) tert-Butylbenzene	(3)	9.922	119	8905299M	71.766
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	9336304	78.353
91) sec-Butylbenzene	(3)	10.087	105	12553804	71.881
92) 1,3-Dichlorobenzene	(3)	10.195	146	7312528	81.114
94) p-Isopropyltoluene	(3)	10.195	119	11746970	79.220
93) 1,4-Dichlorobenzene	(3)	10.259	146	7433213	81.264
95) Benzyl Chloride	(3)	10.359	91	8185516	103.936
97) n-Butylbenzene	(3)	10.503	91	10317863	83.921
96) 1,2-Dichlorobenzene	(3)	10.546	146	6884892	84.626
98) Hexachloroethane	(3)	10.732	117	3920123M	113.272
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	3719106	116.861
100) 1,2,4-Trichlorobenzene	(3)	11.763	180	5621362	115.184
101) Hexachlorobutadiene	(3)	11.871	225	5011219	114.323
102) Naphthalene	(3)	11.964	128	10287762	116.240
64) 1,3-Dichloropropene (total)	(3)		75	7109437	152.229
77) Xylene (total)	(3)		91	15580967	140.623

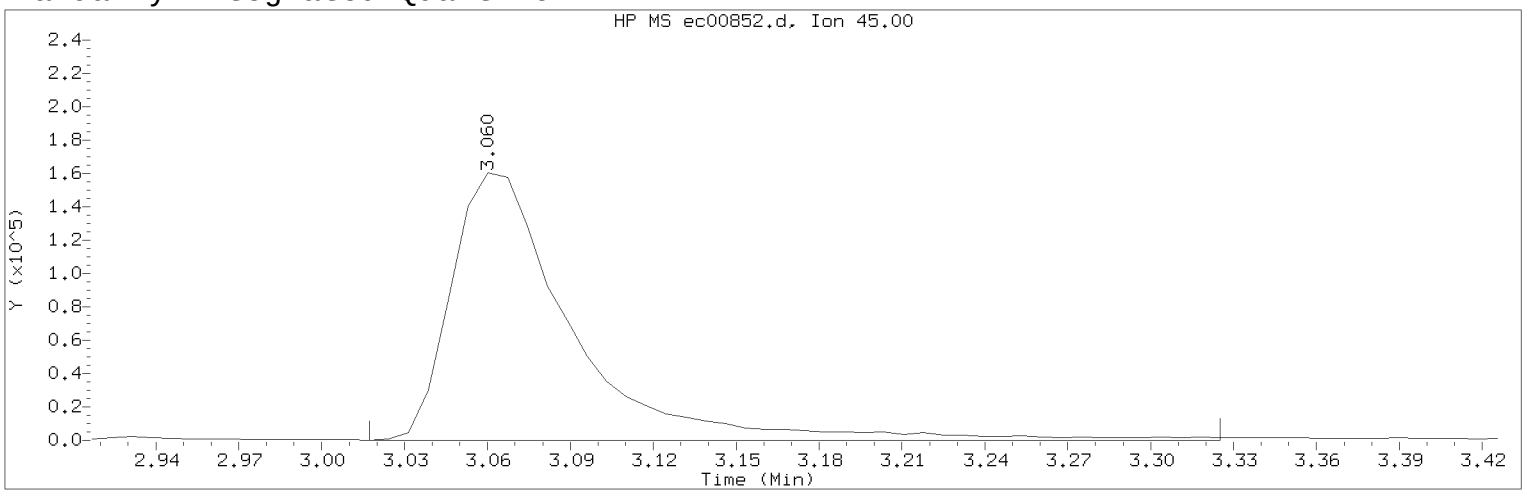
M = Compound was manually integrated.

Digitally signed by Alexander D. Sechrist
on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

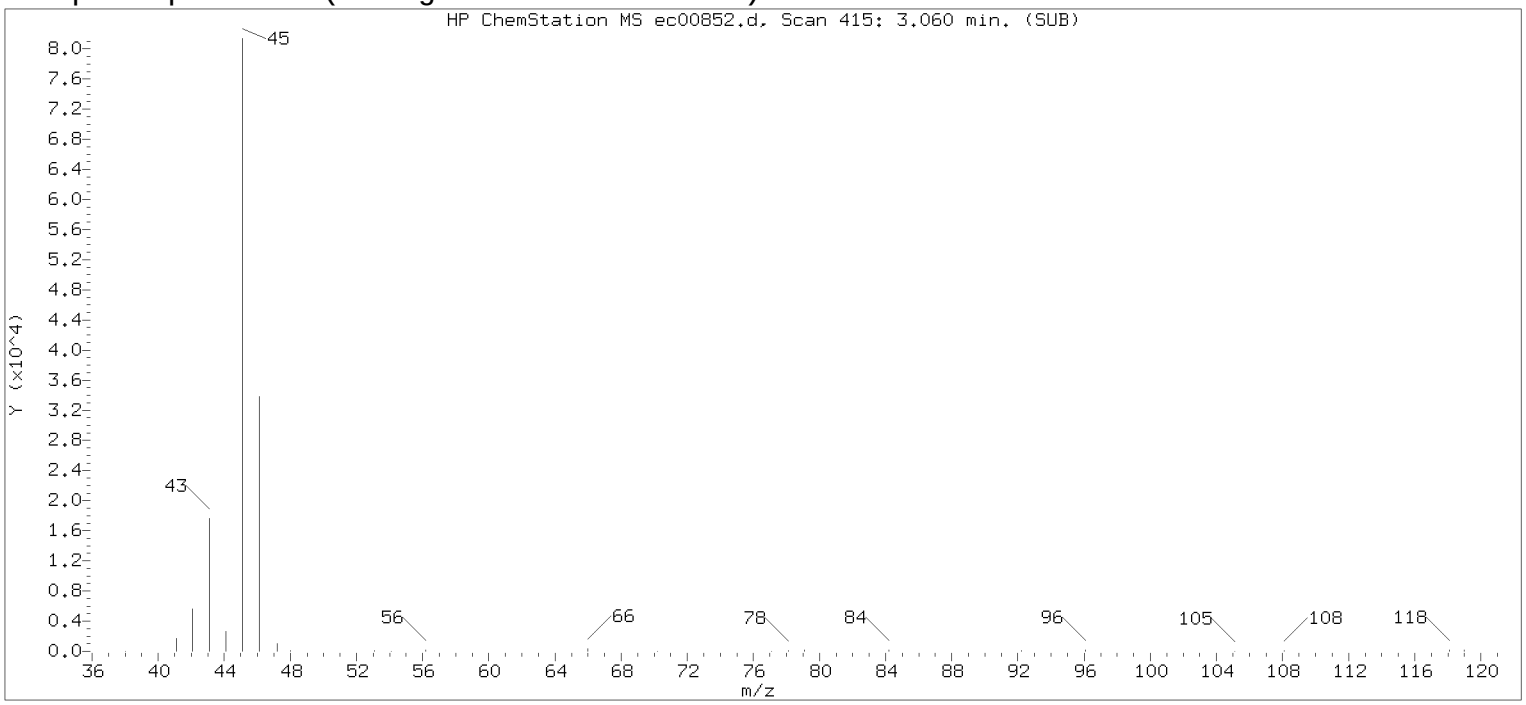
Compound Number : 14
Compound Name : Ethanol
Scan Number : 415
Retention Time (minutes): 3.060
Quant Ion : 45.00
Area (flag) : 486322M
Concentration (ppb(v)) : 82.6248
Integration start scan : 408 Integration stop scan: 451
Y at integration start : 160 Y at integration end: 160

Reason for manual integration: improper integration

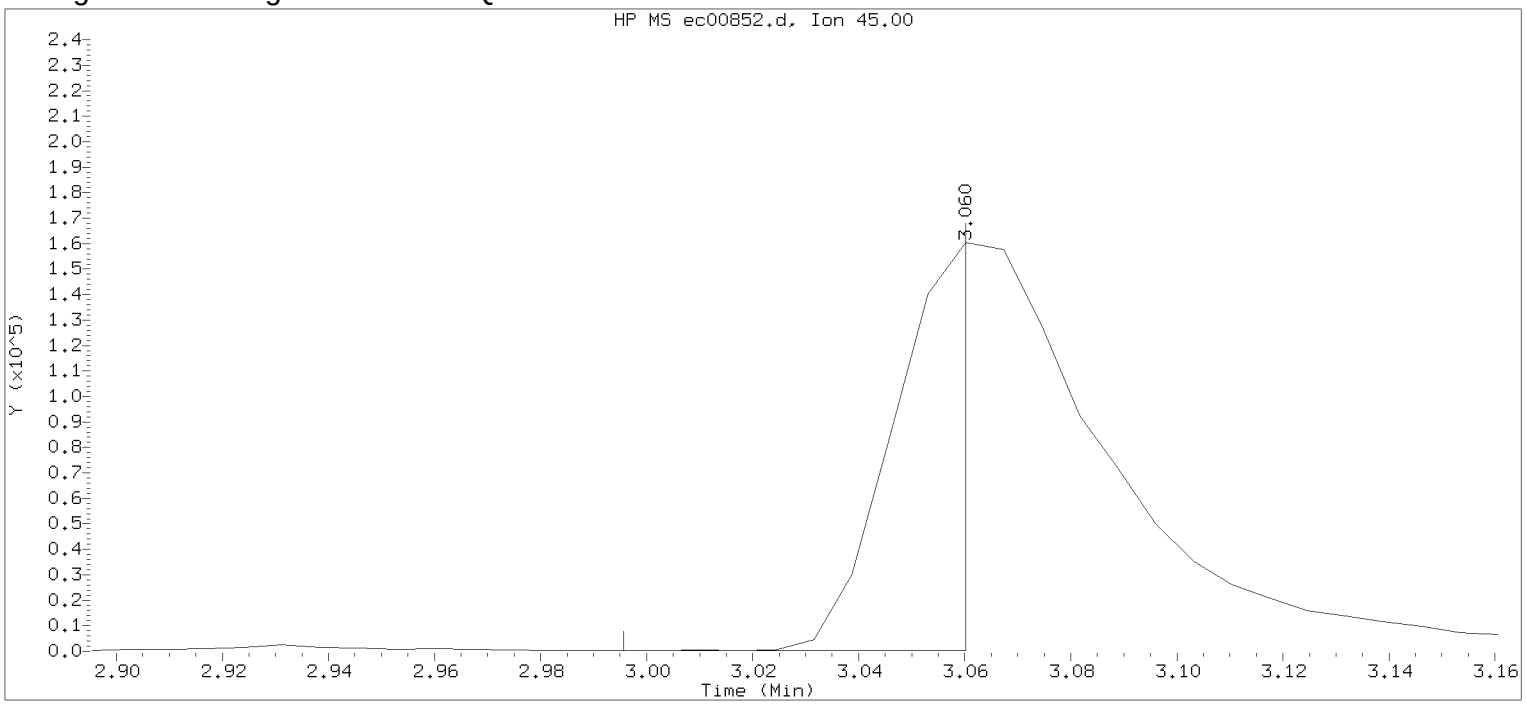
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

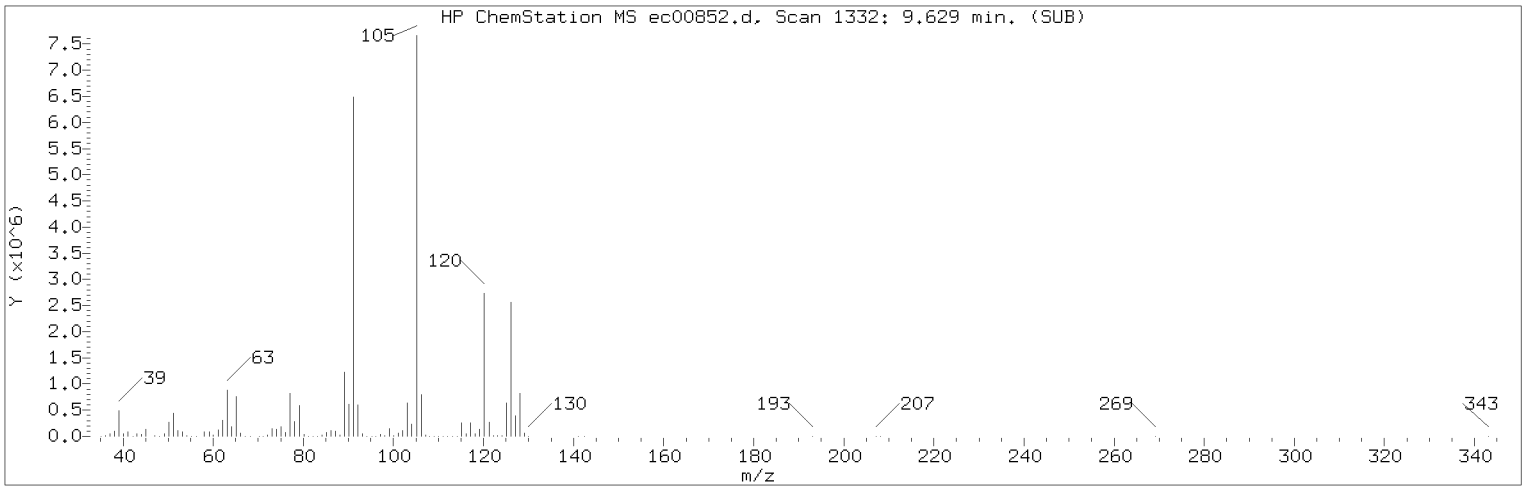
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:40 Unknown

Sample Name: VSTD070 Lab Sample ID: VSTD070

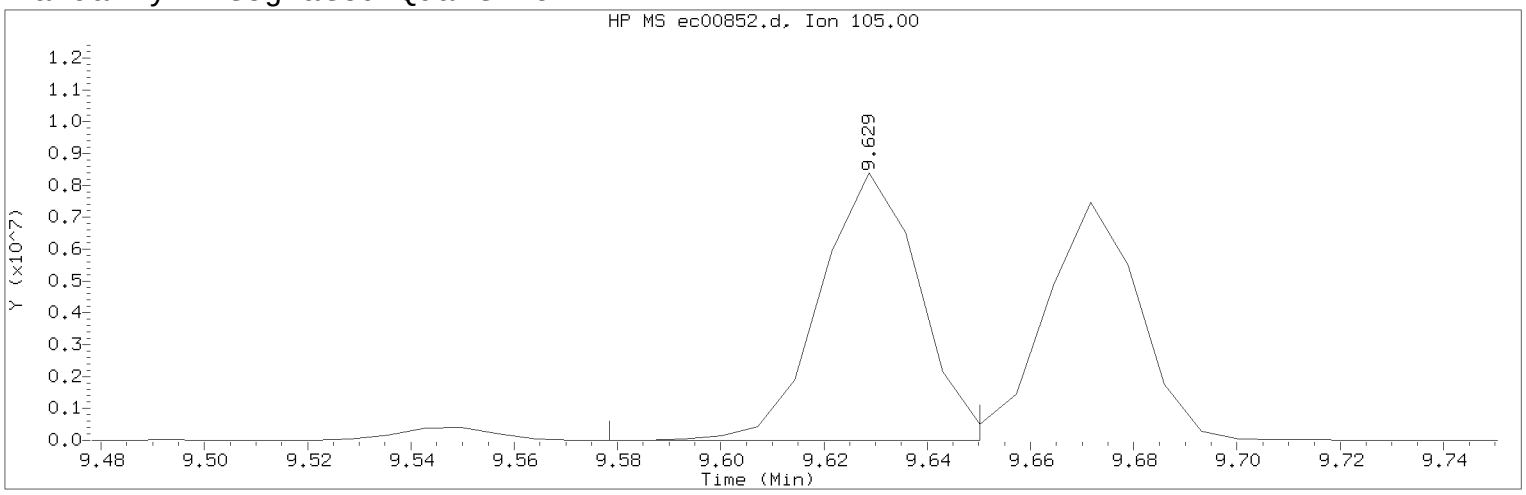
Compound Number : 14
Compound Name : Ethanol
Scan Number : 415
Retention Time (minutes): 3.060
Quant Ion : 45.00
Area : 145390
Concentration (ppb(v)) : 19.0085
Integration start scan : 405 Integration stop scan: 414
Y at integration start : 263 Y at integration end: 263

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

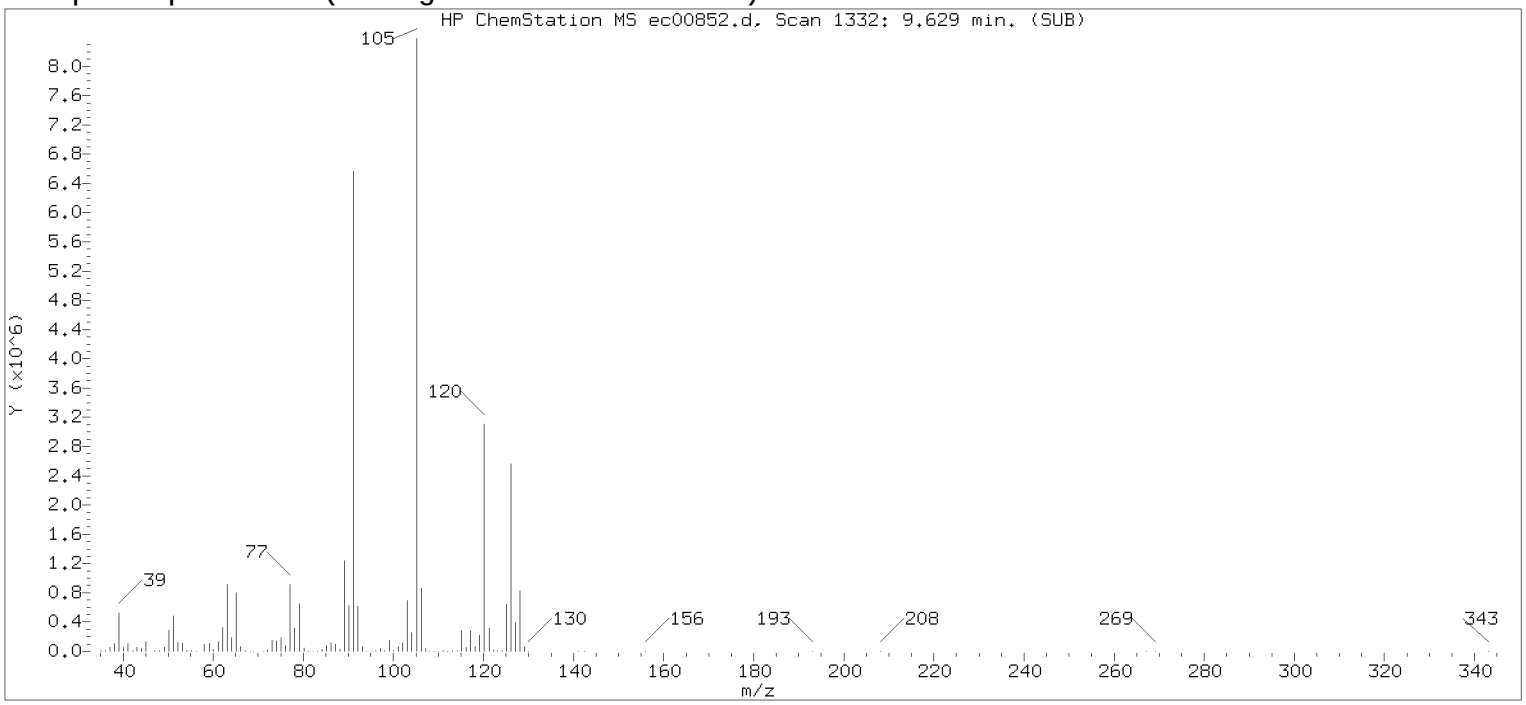
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 11166738M
Concentration (ppb(v)) : 73.6787
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 2674 Y at integration end: 2674

Reason for manual integration: improper integration

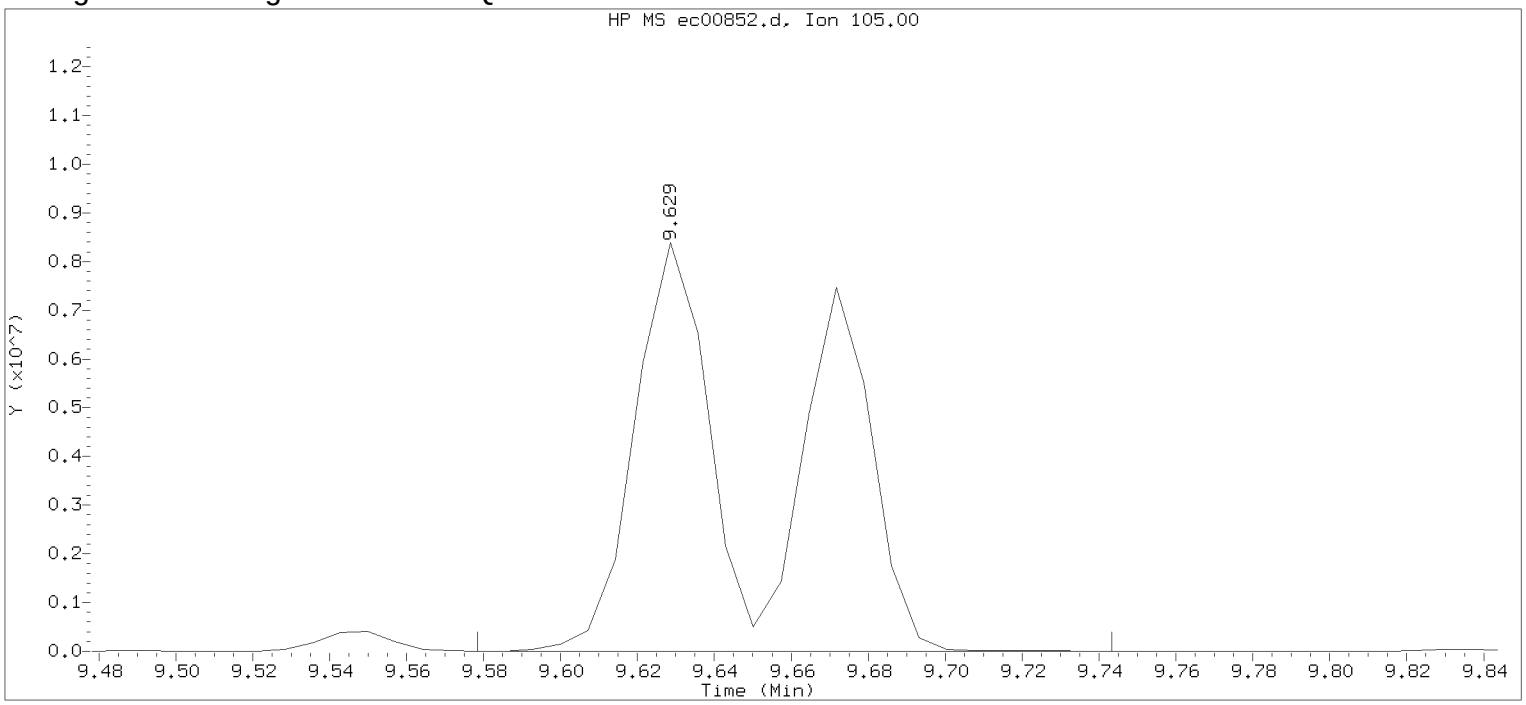
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

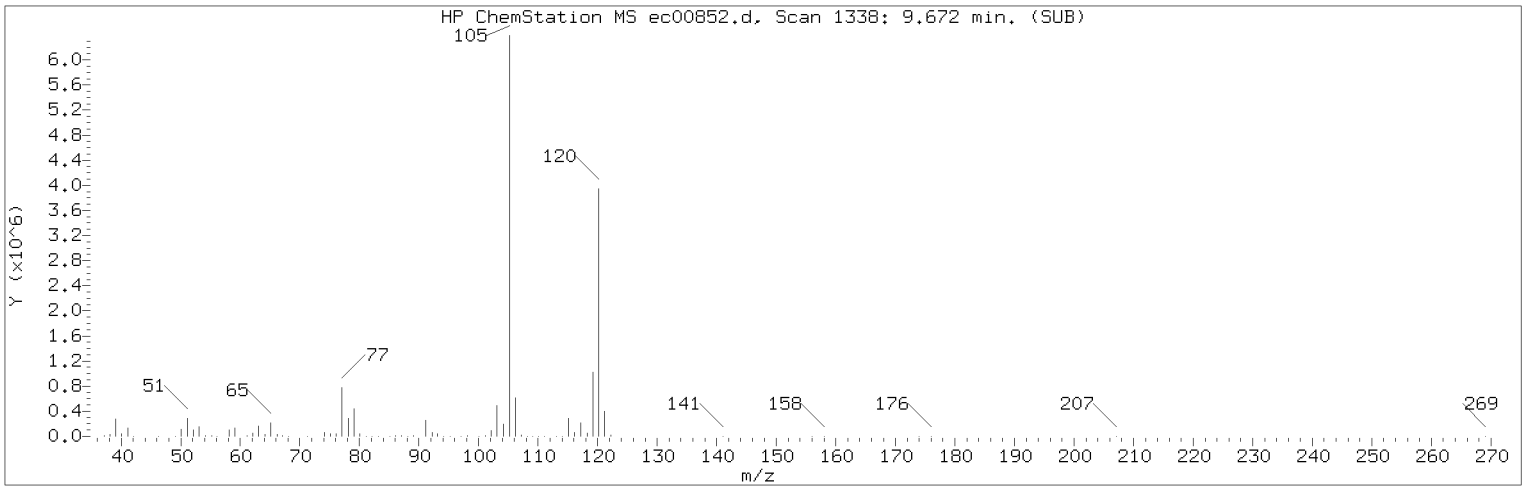
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:40 Unknown

Sample Name: VSTD070 Lab Sample ID: VSTD070

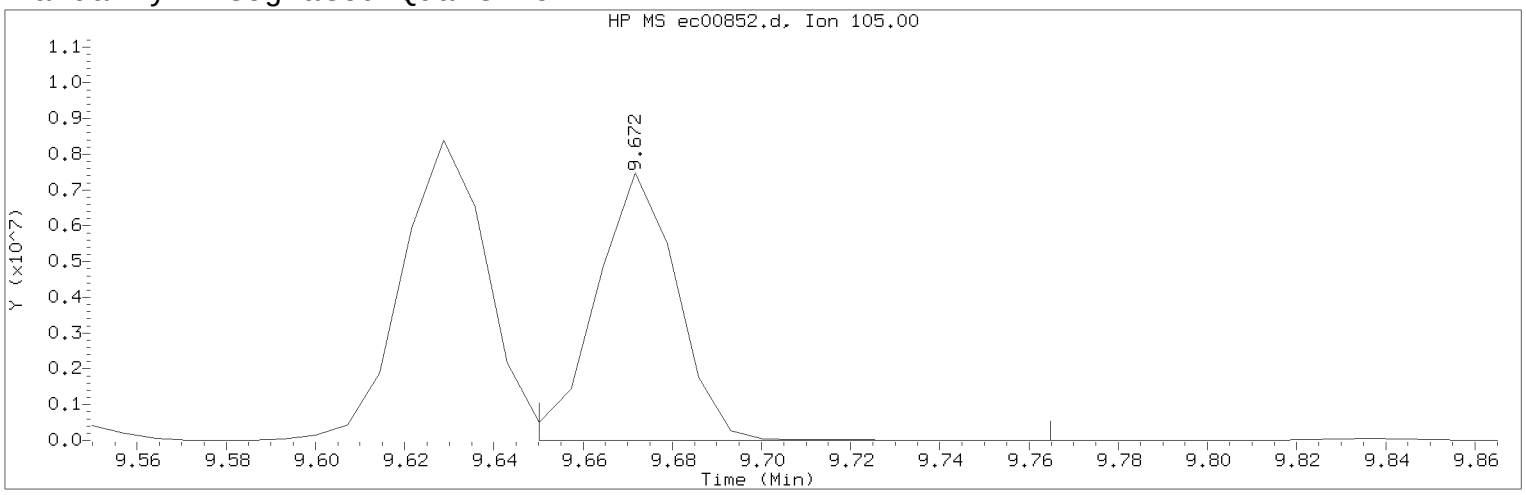
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 20371962
Concentration (ppb(v)) : 99.9136
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 1340 Y at integration end: 1340

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

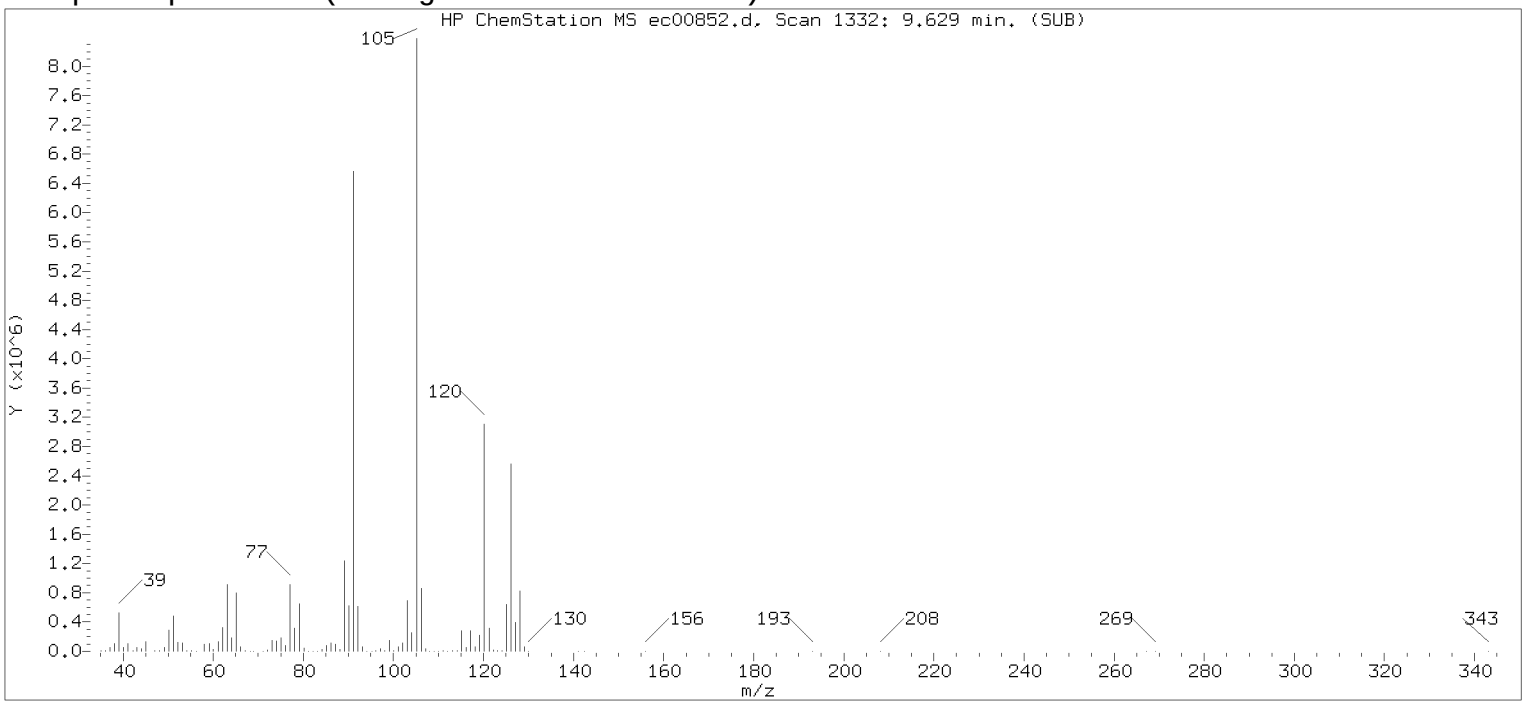
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 9410633M
Concentration (ppb(v)) : 74.7079
Integration start scan : 1334 Integration stop scan: 1350
Y at integration start : 2264 Y at integration end: 2264

Reason for manual integration: improper integration

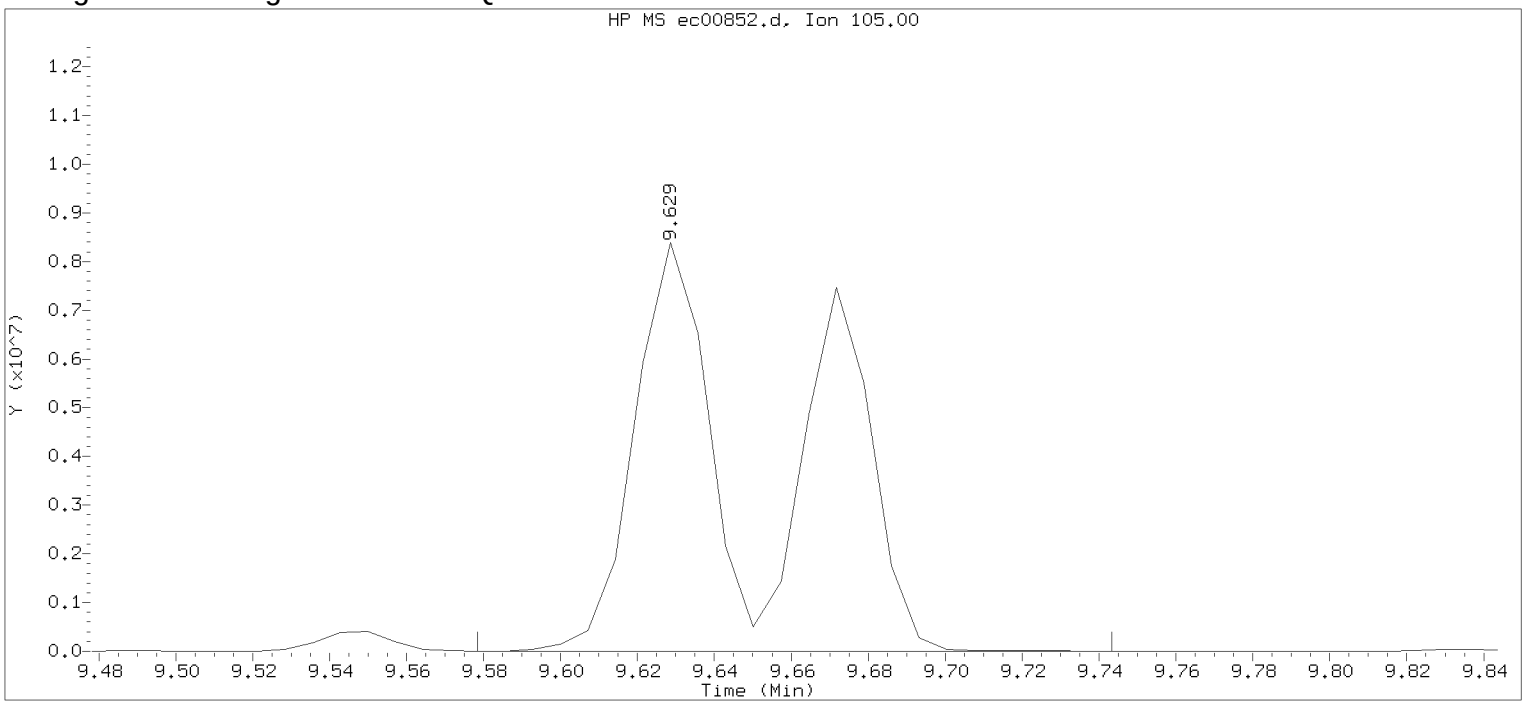
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

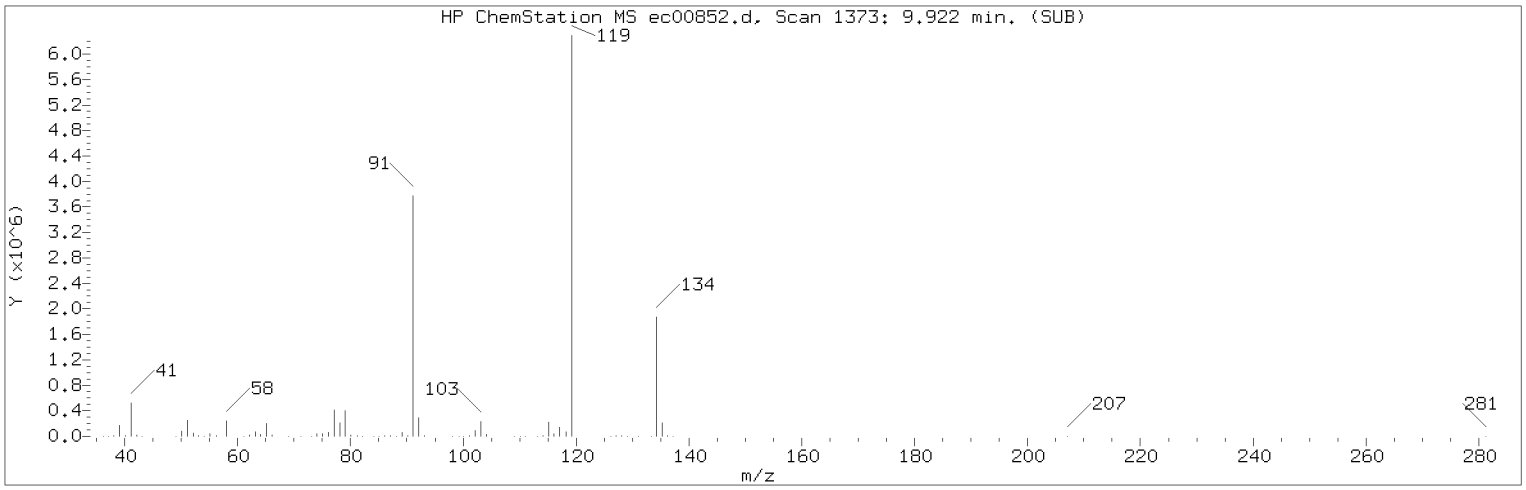
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:40 Unknown

Sample Name: VSTD070 Lab Sample ID: VSTD070

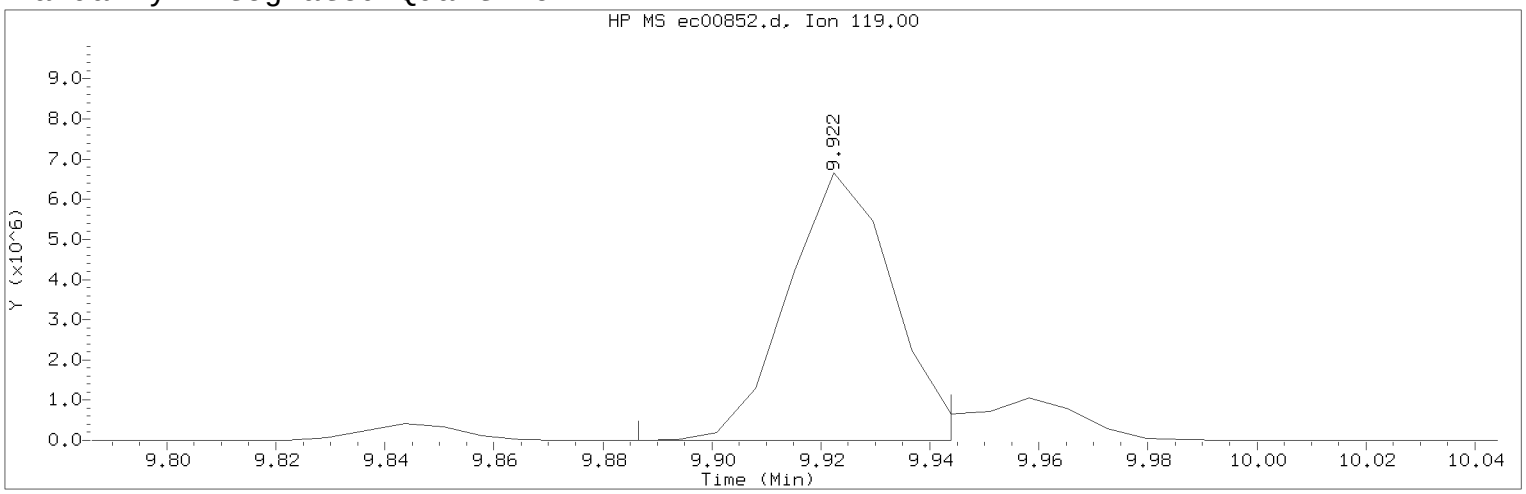
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 20358775
Concentration (ppb(v)) : 120.3824
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 2674 Y at integration end: 2674

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: 07284

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

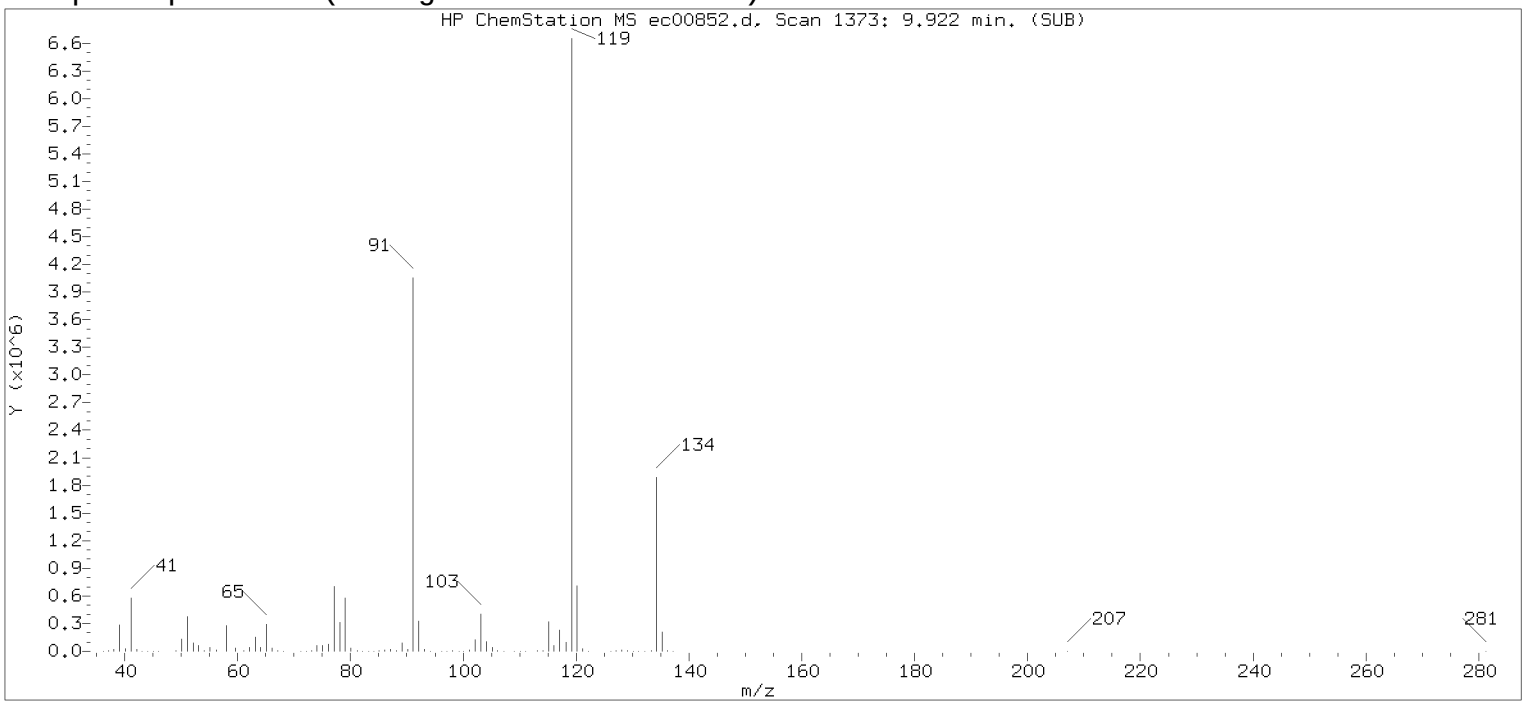
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area (flag) : 8905299M
Concentration (ppb(v)) : 71.7657
Integration start scan : 1367 Integration stop scan: 1375
Y at integration start : 1100 Y at integration end: 1100

Reason for manual integration: improper integration

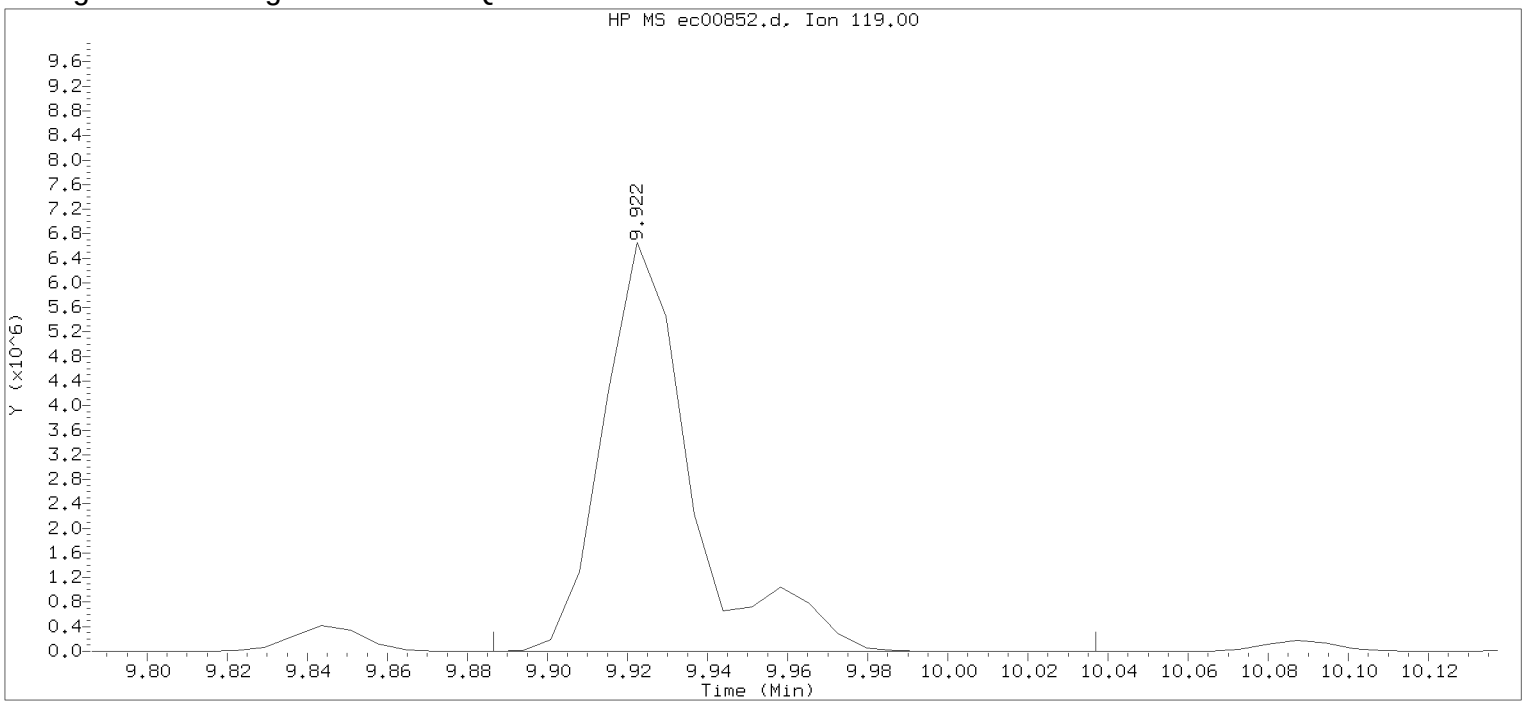
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

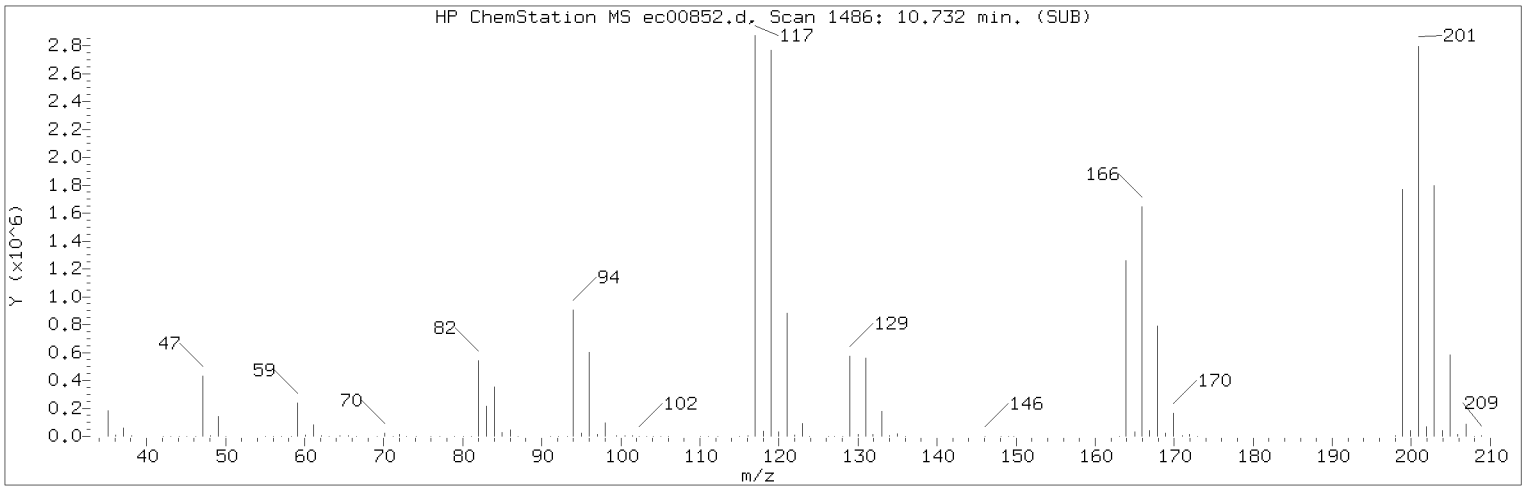
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
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Date, time and analyst ID of latest file update: 30-Mar-2017 22:40 Unknown

Sample Name: VSTD070 Lab Sample ID: VSTD070

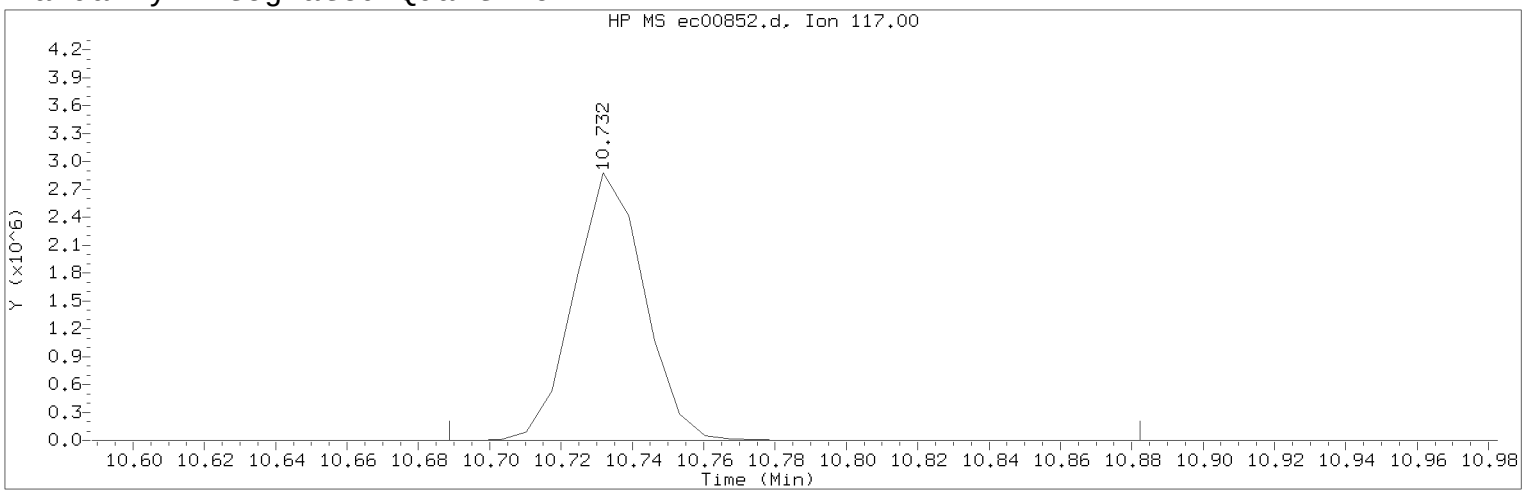
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area : 10161559
Concentration (ppb(v)) : 59.7876
Integration start scan : 1367 Integration stop scan: 1388
Y at integration start : 379 Y at integration end: 379

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: 1a07288

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:47
Date, time and analyst ID of latest file update: 31-Mar-2017 08:47 ads07818

Sample Name: VSTD070 Lab Sample ID: VSTD070

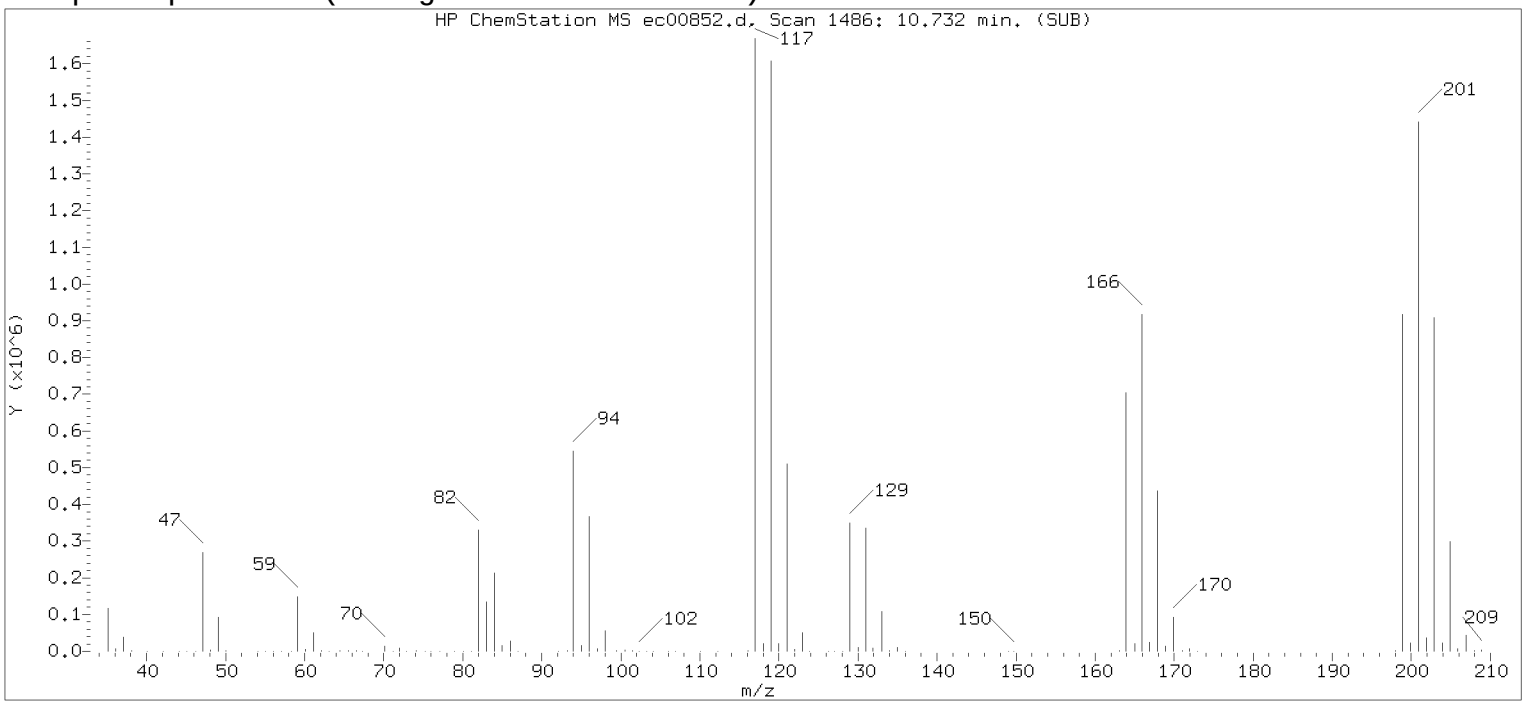
Compound Number : 98
Compound Name : Hexachloroethane
Scan Number : 1486
Retention Time (minutes): 10.732
Quant Ion : 117.00
Area (flag) : 3920123M
Concentration (ppb(v)) : 113.2724
Integration start scan : 1479 Integration stop scan: 1506
Y at integration start : 283 Y at integration end: 283

Reason for manual integration: improper integration

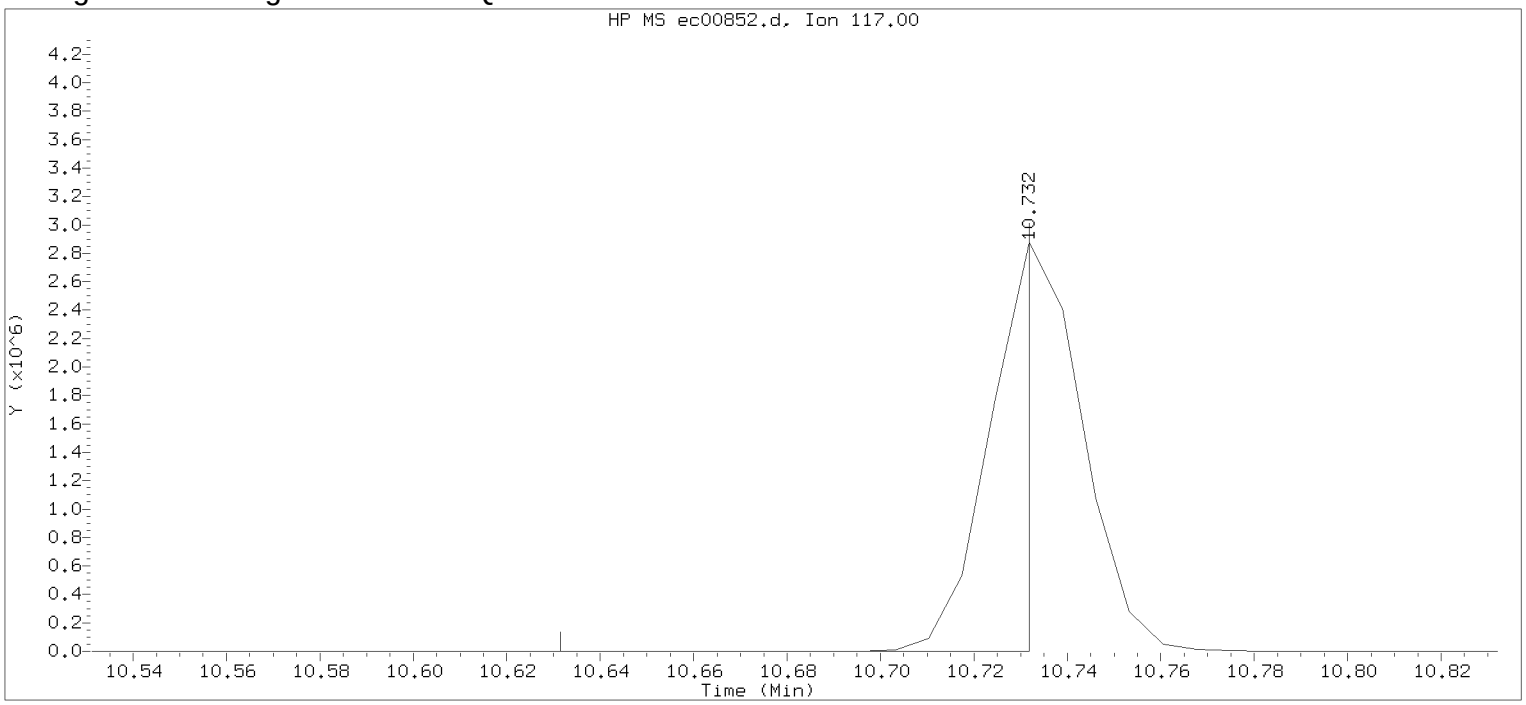
Analyst responsible for change: Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ads07818

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:12.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



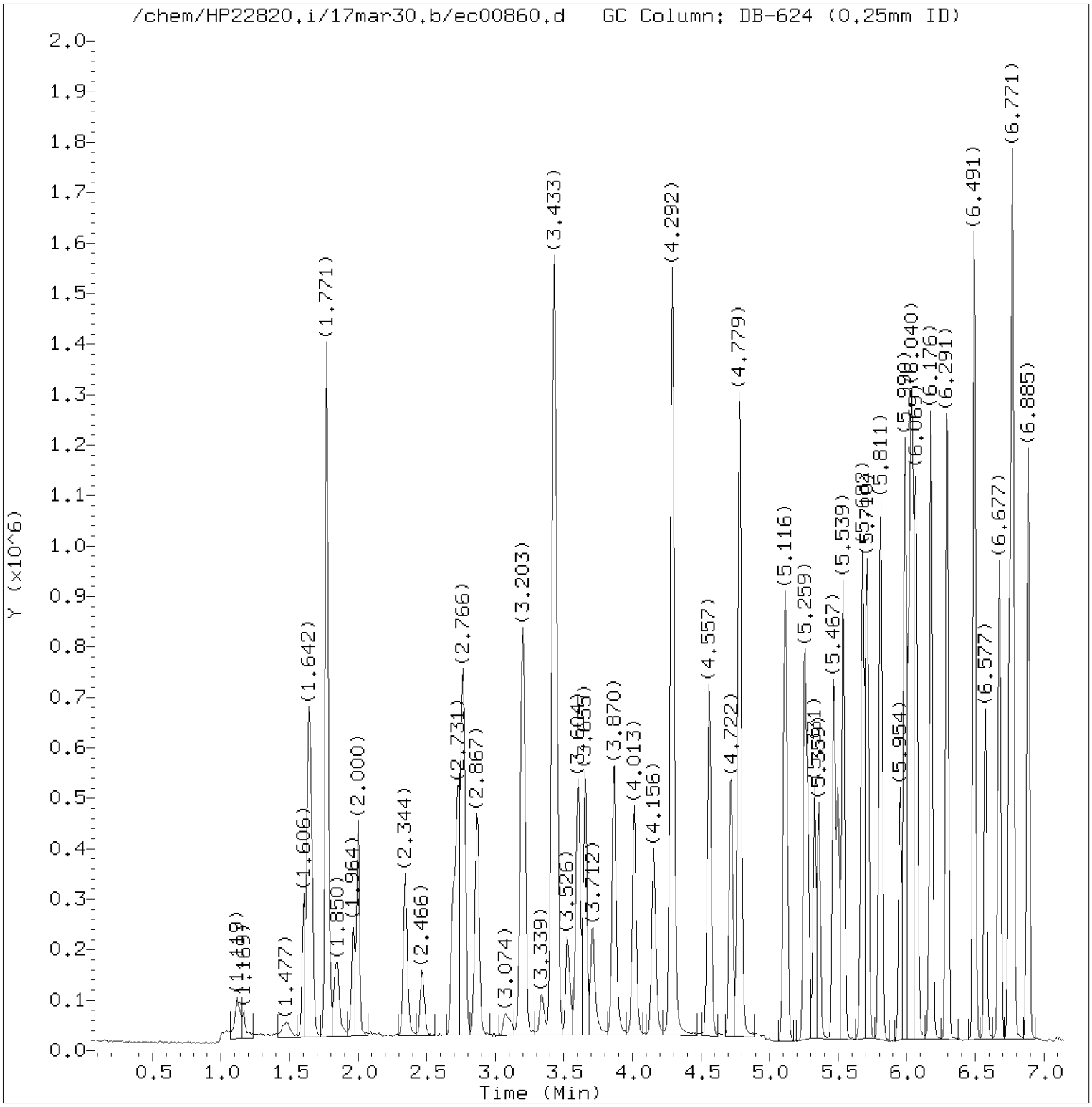
Data File: /chem/HP22820.i/17mar30.b/ec00852.d Instrument ID: HP22820.i
Injection date and time: 30-MAR-2017 22:21 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 30-Mar-2017 22:40 Unknown

Sample Name: VSTD070 Lab Sample ID: VSTD070

Compound Number : 98
Compound Name : Hexachloroethane
Scan Number : 1486
Retention Time (minutes): 10.732
Quant Ion : 117.00
Area : 1651418
Concentration (ppb(v)) : 25.3403
Integration start scan : 1471 Integration stop scan: 1485
Y at integration start : 327 Y at integration end: 327

Digitally signed by Alexander D. Sechrist on 03/31/2017 at 09:06.
Target 3.5 esignature user ID: ADS



Total Ion Chromatogram (TIC)

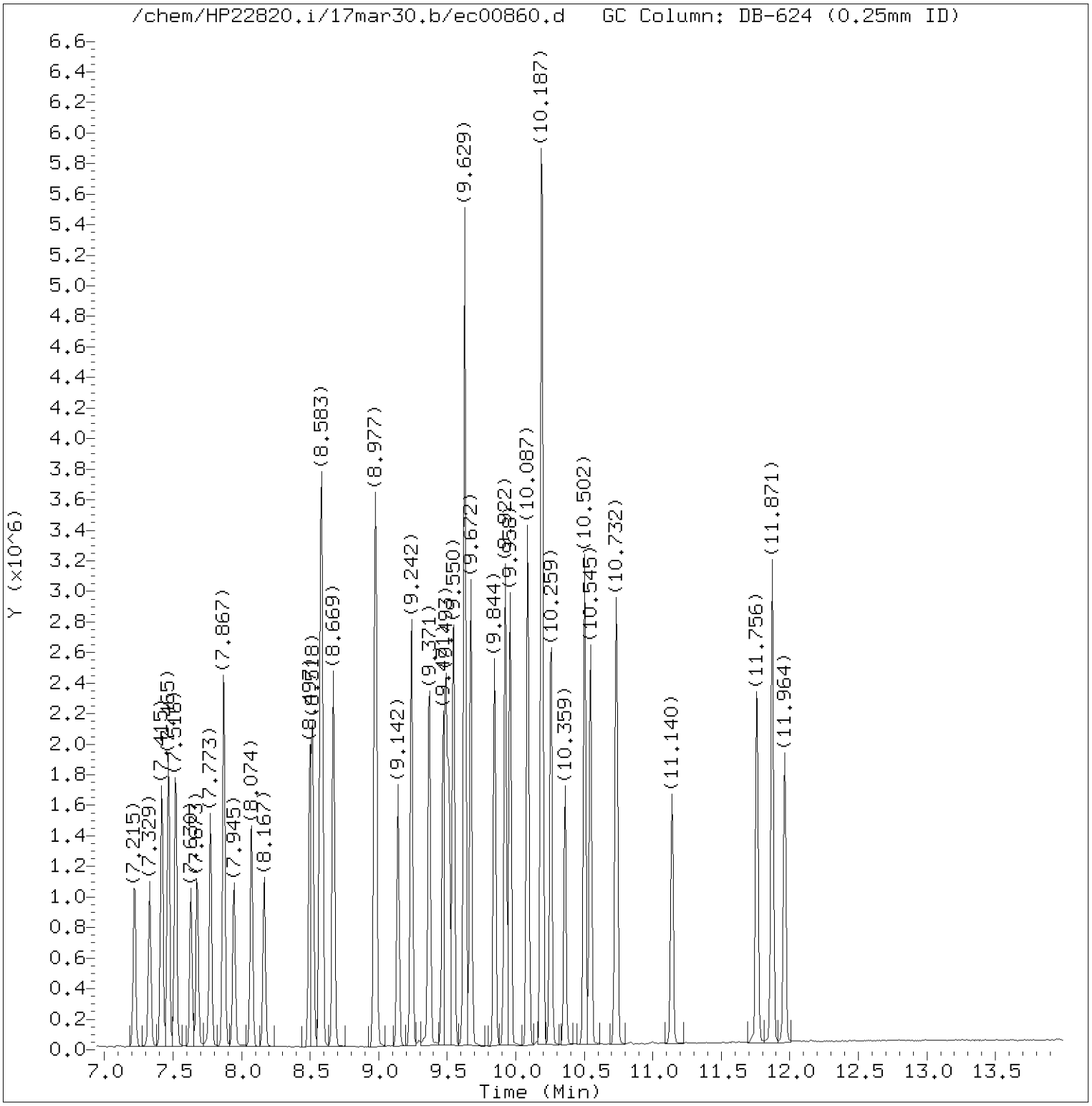
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

Sample Name: LCSE48 Lab Sample ID: LCSE48

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

Sample Name: LCSE48 Lab Sample ID: LCSE48

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

Sample Name: LCSE48 Lab Sample ID: LCSE48

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.606	41	151689	10.177
2) Dichlorodifluoromethane	(1)	1.642	85	646804	10.819
3) Chlorodifluoromethane	(1)	1.663	51	351141	11.284
4) Freon 114	(1)	1.771	85	679703	10.856
5) Chloromethane	(1)	1.835	50	169526	10.568
6) Vinyl Chloride	(1)	1.964	62	247664	11.010
7) 1,3-Butadiene	(1)	2.000	54	171894	10.396
8) Bromomethane	(1)	2.344	94	253798	11.028
9) Chloroethane	(1)	2.466	64	138374	11.041
10) Bromoethene	(1)	2.695	106	275482	11.005
11) Dichlorofluoromethane	(1)	2.723	67	547407	11.158
12) Trichlorofluoromethane	(1)	2.766	101	690508	10.734
13) Pentane	(1)	2.867	43	350516	10.420
14) Ethanol	(1)	3.067	45	74485	13.192
15) Freon123a	(1)	3.203	67	510454	10.730
16) Acrolein	(1)	3.339	56	99017	11.422
17) 1,1-Dichloroethene	(1)	3.425	61	379386	10.909
18) Freon 113	(1)	3.440	103	396762	10.473
19) Acetone	(1)	3.526	43	296083	10.982
20) Methyl Iodide	(1)	3.604	142	728187	10.298
21) Carbon Disulfide	(1)	3.655	76	724601	10.517
22) Isopropanol	(1)	3.712	45	330084	13.766
24) 3-Chloropropene	(1)	3.862	76	134901	12.939
23) Acetonitrile	(1)	3.870	40	140120	11.212
25) Methylene Chloride	(1)	4.013	84	246164	12.003
26) tert-Butyl Alcohol	(1)	4.156	59	489313	12.373
28) trans-1,2-Dichloroethene	(1)	4.292	61	346901	10.754
29) Methyl t-Butyl Ether	(1)	4.292	73	737242	10.540
27) Acrylonitrile	(1)	4.299	53	201213	11.209
30) Hexane	(1)	4.557	57	374808	10.731
31) 1,1-Dichloroethane	(1)	4.722	63	451202	10.638
32) Vinyl Acetate	(1)	4.779	86	78608	13.680
33) Di-Isopropyl Ether	(1)	4.779	45	728164	10.775
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	753124	10.644
35) cis-1,2-Dichloroethene	(1)	5.252	61	334111	10.867
37) 2-Butanone	(1)	5.281	72	138904	11.255
38) Ethyl Acetate	(1)	5.331	70	64560	9.740
39) Methyl Acrylate	(1)	5.359	55	412824	11.078

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

Sample Name: LCSE48 Lab Sample ID: LCSE48

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	237428	10.000
41) Tetrahydrofuran	(1)	5.496	42	241549	10.864
42) Chloroform	(1)	5.539	83	567639	10.620
43) 1,1,1-Trichloroethane	(1)	5.675	97	577311	10.681
44) Cyclohexane	(1)	5.710	56	391085	10.687
45) Carbon Tetrachloride	(1)	5.811	117	596801	10.634
46) Benzene	(2)	5.990	78	879569	10.339
47) 1,2-Dichloroethane	(2)	6.011	62	338528	10.563
48) Isooctane	(2)	6.040	57	1205804	10.302
49) Tert-Amyl Methyl Ether	(2)	6.069	73	800274	10.368
50) Heptane	(2)	6.176	43	394682	10.184
51)*1,4-Difluorobenzene	(2)	6.298	114	917008	10.000
52) Trichloroethene	(2)	6.491	130	462454	10.549
53) Ethyl Acrylate	(2)	6.570	55	533338	10.780
36) 1,2-Dichloroethene (total)	(1)		61	681012	21.621
54) 1,2-Dichloropropane	(2)	6.677	63	296039	10.171
57) Methyl Methacrylate	(2)	6.749	69	295726	10.426
55) Dibromomethane	(2)	6.771	174	456705	10.583
56) 1,4-Dioxane	(2)	6.778	88	220954	10.838
58) Bromodichloromethane	(2)	6.885	83	577174	10.405
59) cis-1,3-Dichloropropene	(2)	7.215	75	512864	10.401
60) 4-Methyl-2-Pentanone	(2)	7.329	43	524928	10.624
61) Toluene	(3)	7.465	91	1119317	10.383
62) Octane	(3)	7.516	43	551027	10.412
63) trans-1,3-Dichloropropene	(3)	7.630	75	438999	10.559
65) Ethyl Methacrylate	(3)	7.673	69	486963	10.882
66) 1,1,2-Trichloroethane	(3)	7.773	97	383645	10.650
67) Tetrachloroethene	(3)	7.874	166	654223	10.309
68) 2-Hexanone	(3)	7.945	43	518429	11.423
69) Dibromochloromethane	(3)	8.074	127	507155	10.819
70) 1,2-Dibromoethane	(3)	8.167	107	612800	10.855
71)*Chlorobenzene-d5	(3)	8.497	117	893081	10.000
72) Chlorobenzene	(3)	8.518	112	972256	10.517
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	504621	10.861
74) Ethylbenzene	(3)	8.583	91	1470933	10.648
75) m/p-Xylene	(3)	8.669	91	1152238	10.561
76) o-Xylene	(3)	8.970	91	1137525	10.757
78) Styrene	(3)	8.984	104	917904	11.475

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

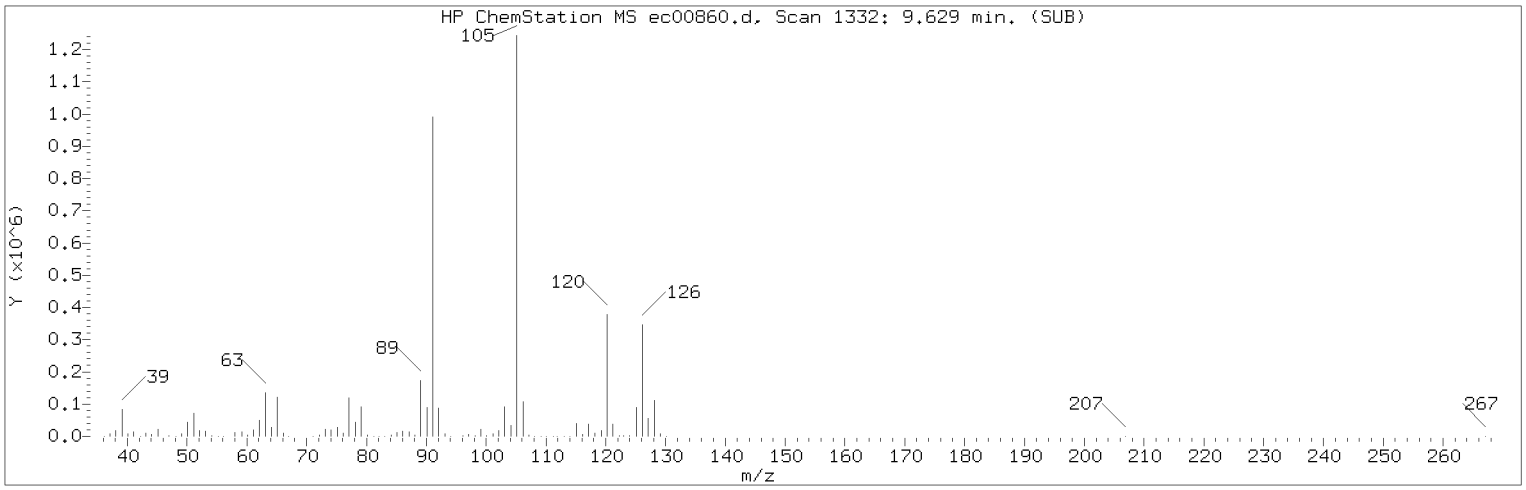
Sample Name: LCSE48 Lab Sample ID: LCSE48

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	661049	11.150
80) Cumene	(3)	9.242	105	1660263	11.156
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	796063	11.411
81) Bromobenzene	(3)	9.493	156	610996	10.720
83) 1,2,3-Trichloropropane	(3)	9.514	110	261609	11.229
84) n-Propylbenzene	(3)	9.550	120	481592	10.598
86) 4-Ethyltoluene	(3)	9.629	105	1659467M	11.293
85) 2-Chlorotoluene	(3)	9.629	126	456119	11.139
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	1383978M	11.332
88) Alpha Methyl Styrene	(3)	9.844	118	694473	11.940
89) tert-Butylbenzene	(3)	9.922	119	1367692M	11.368
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	1340171	11.601
91) sec-Butylbenzene	(3)	10.087	105	1957560	11.561
94) p-Isopropyltoluene	(3)	10.187	119	1698669	11.816
92) 1,3-Dichlorobenzene	(3)	10.194	146	1023257	11.707
93) 1,4-Dichlorobenzene	(3)	10.259	146	1029396	11.608
95) Benzyl Chloride	(3)	10.359	91	999948	13.096
97) n-Butylbenzene	(3)	10.502	91	1439340	12.075
96) 1,2-Dichlorobenzene	(3)	10.545	146	952270	12.073
98) Hexachloroethane	(3)	10.732	117	434588	12.952
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	458877	14.872
100) 1,2,4-Trichlorobenzene	(3)	11.763	180	700797	14.811
101) Hexachlorobutadiene	(3)	11.871	225	587278	13.819
102) Naphthalene	(3)	11.964	128	1376695	16.044
64) 1,3-Dichloropropene (total)	(3)		75	951863	20.960
77) Xylene (total)	(3)		91	2289763	21.318

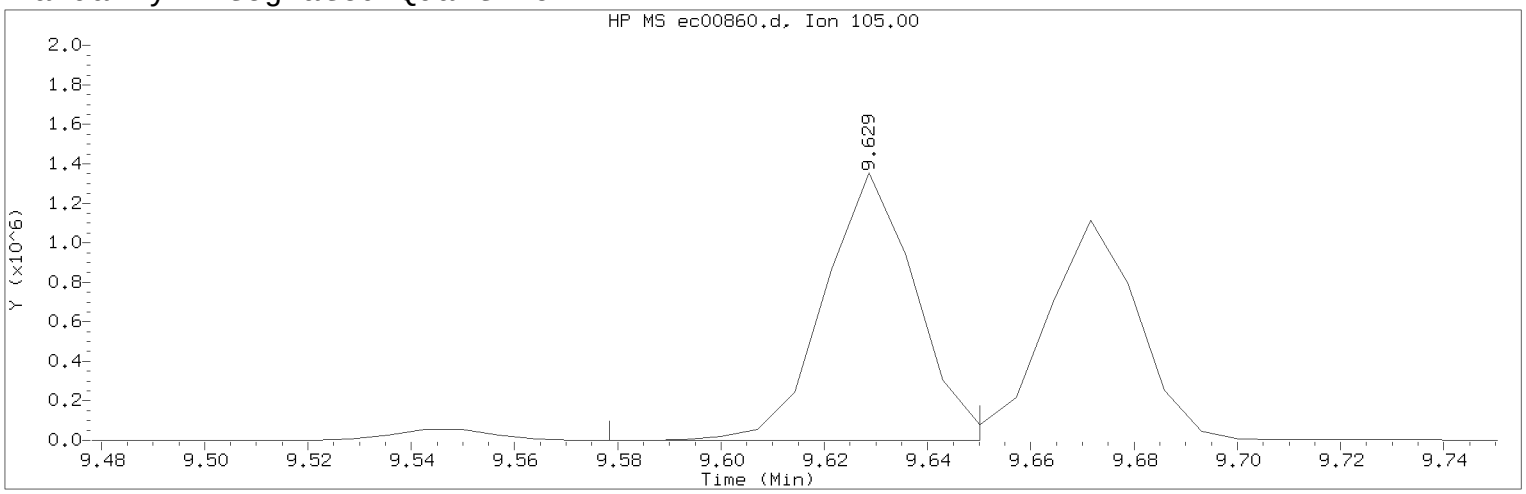
M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

Sample Name: LCSE48 Lab Sample ID: LCSE48

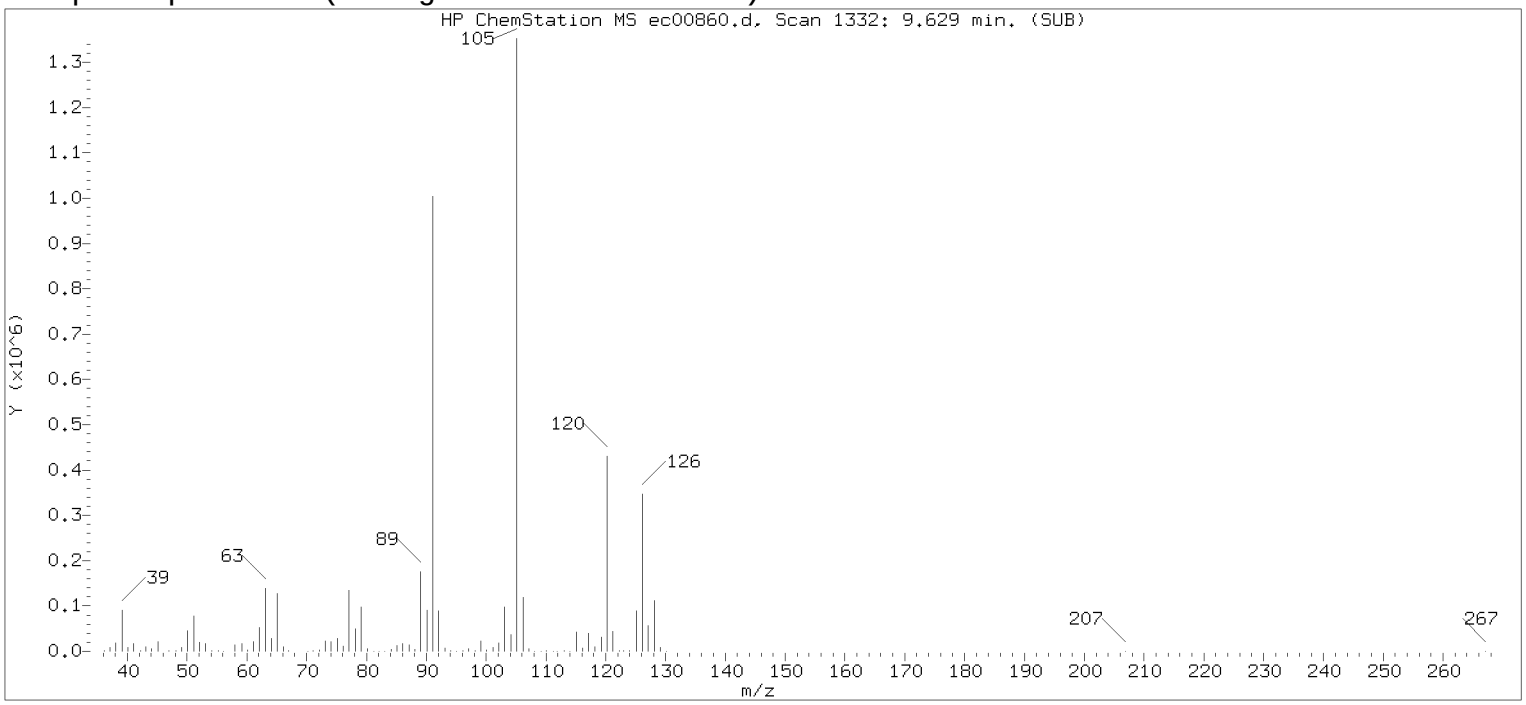
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 1659467M
Concentration (ppb(v)) : 11.2933
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 794 Y at integration end: 794

Reason for manual integration: improper integration

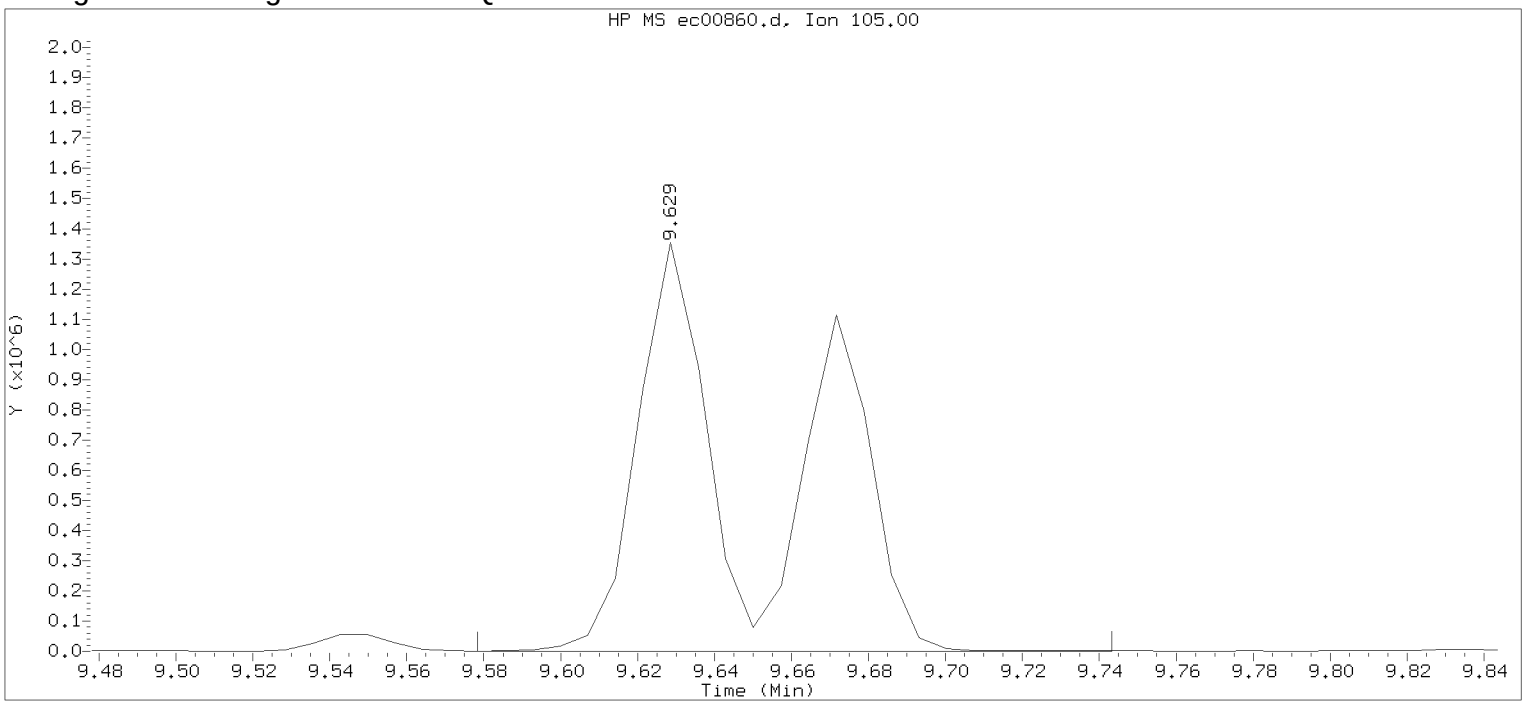
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:17.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

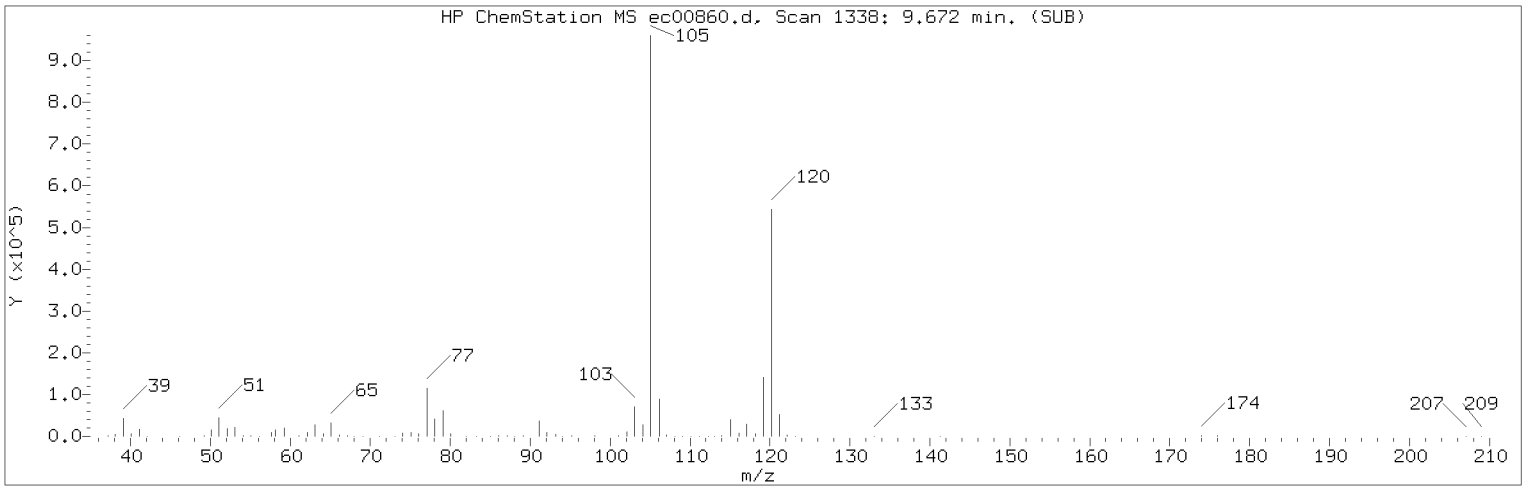
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 03:10 Unknown

Sample Name: LCSE48 Lab Sample ID: LCSE48

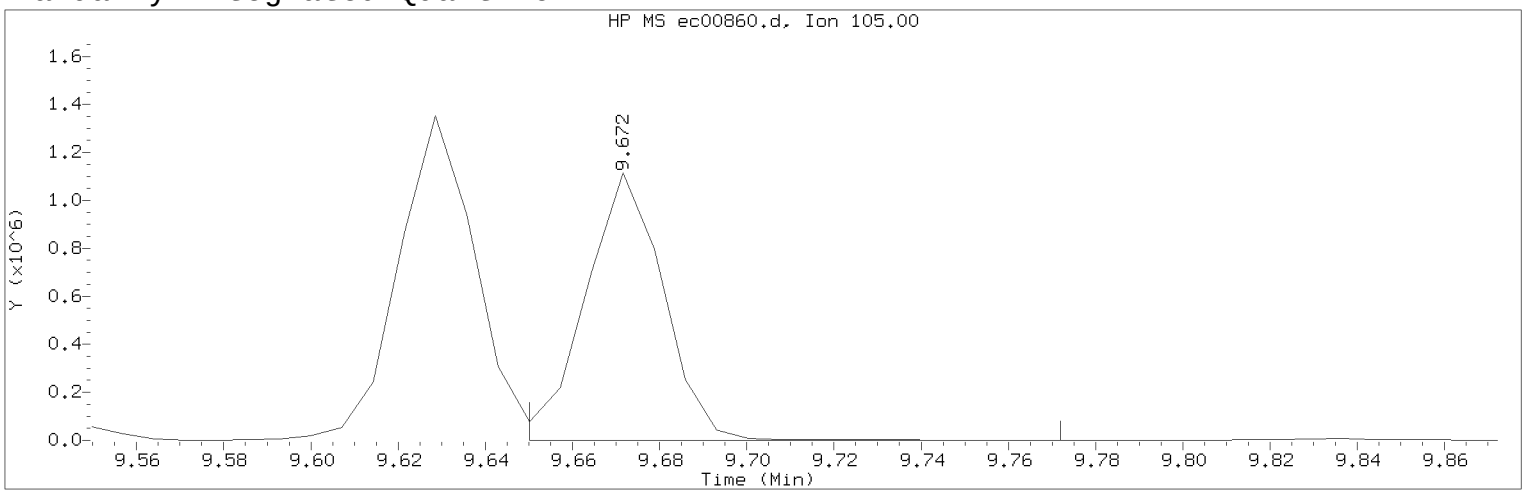
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 3008173
Concentration (ppb(v)) : 15.2171
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 791 Y at integration end: 791

Digitally signed by Jacob E. Bailey on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

Sample Name: LCSE48 Lab Sample ID: LCSE48

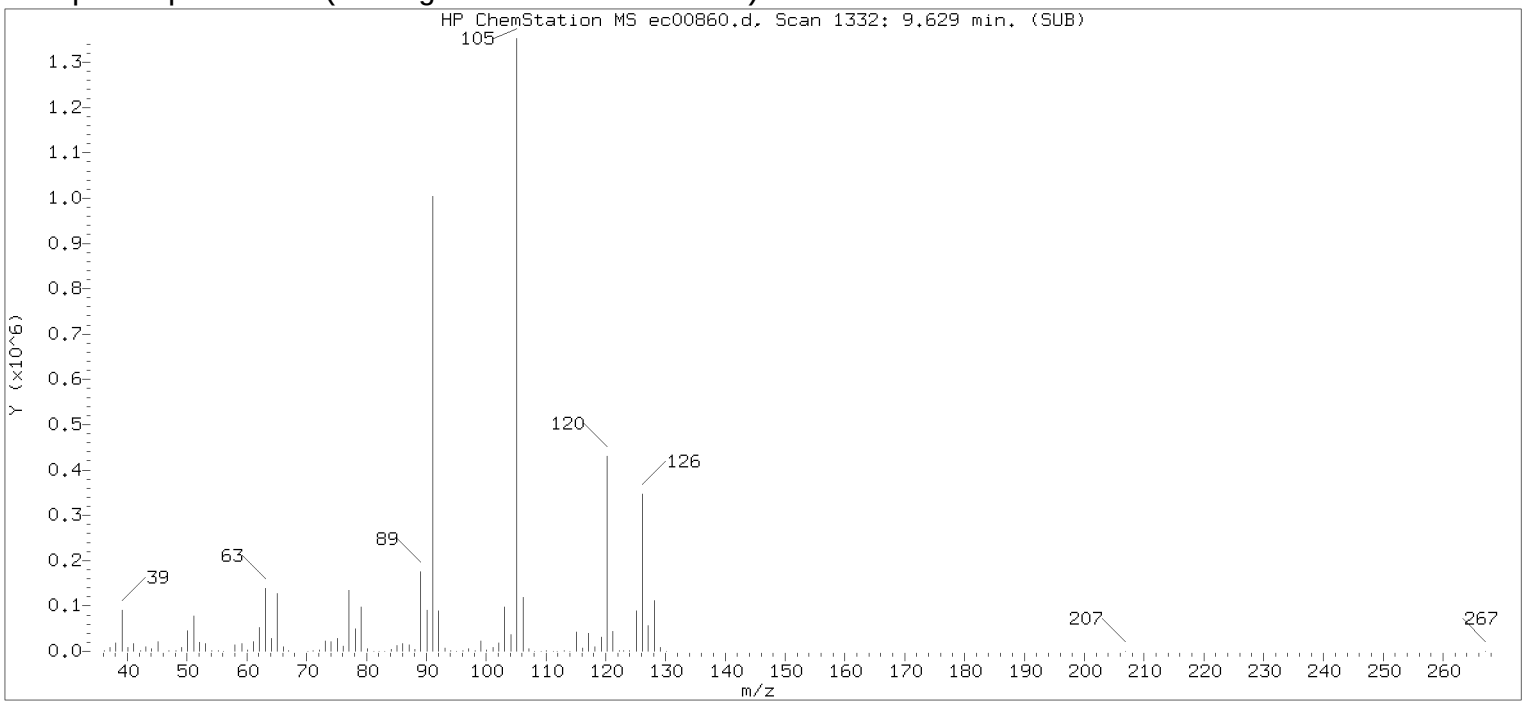
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 1383978M
Concentration (ppb(v)) : 11.3322
Integration start scan : 1334 Integration stop scan: 1351
Y at integration start : 527 Y at integration end: 527

Reason for manual integration: improper integration

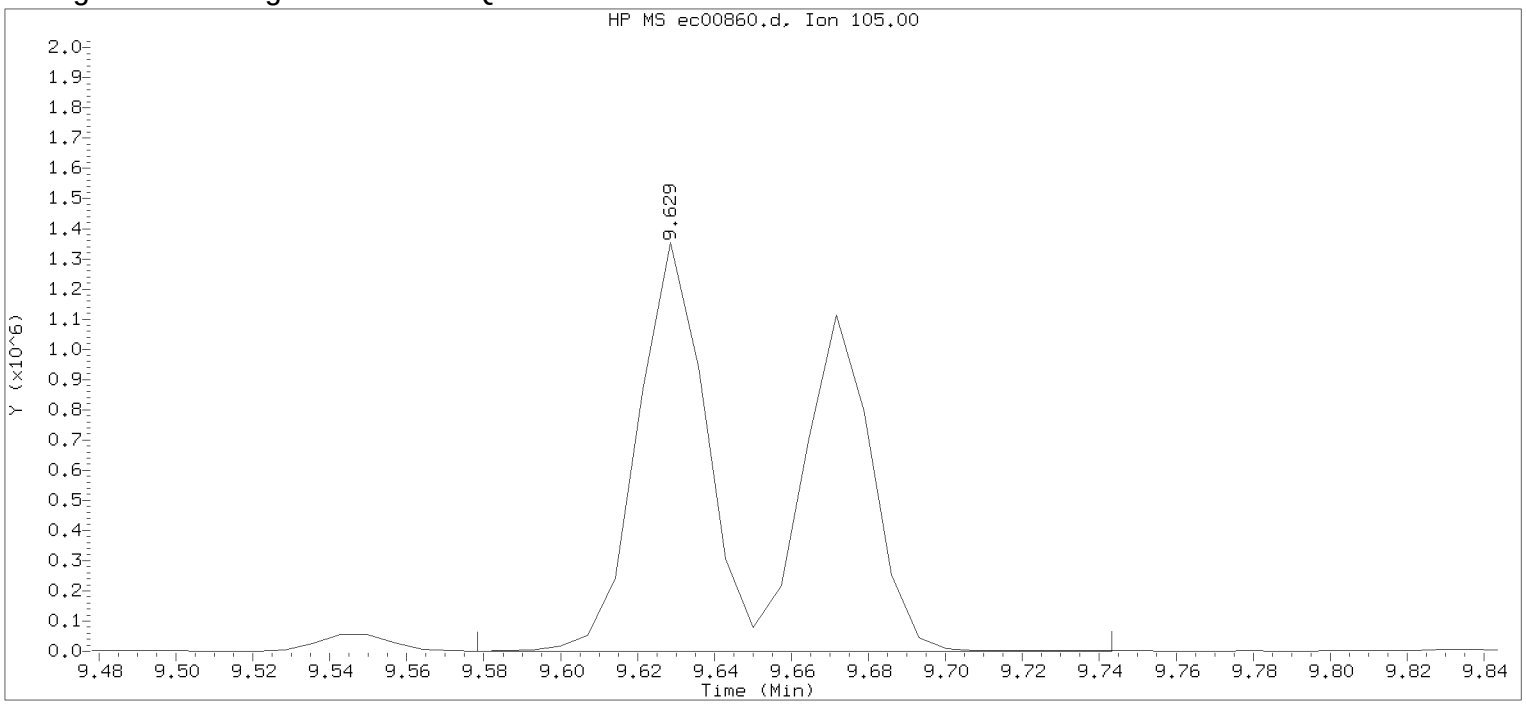
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:17.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

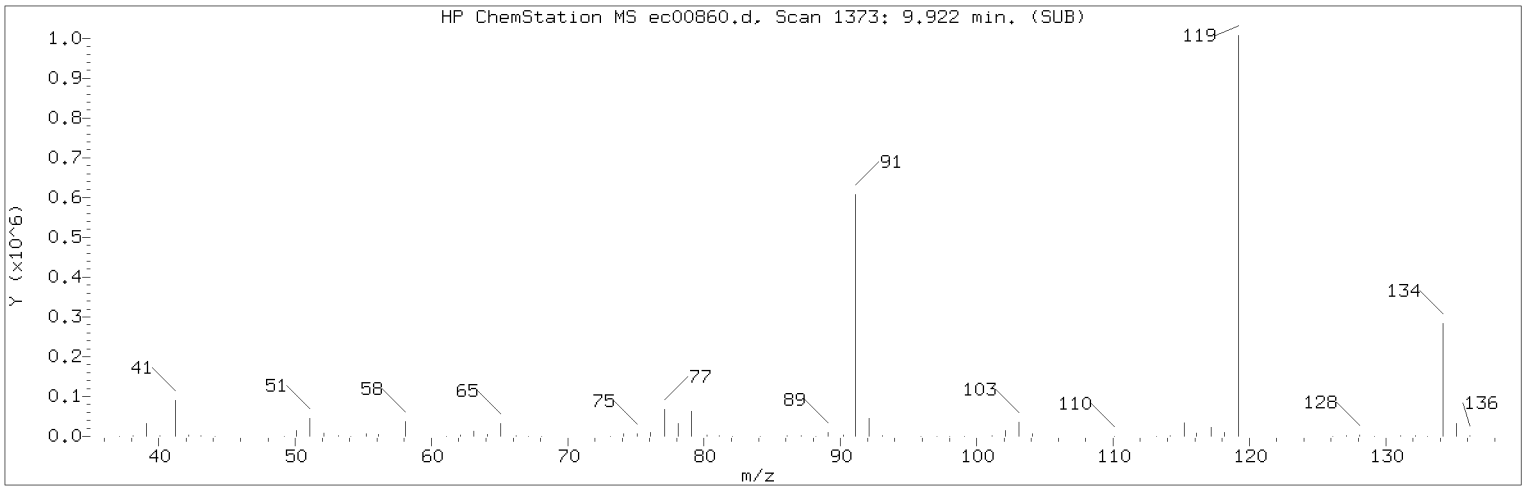
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
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Date, time and analyst ID of latest file update: 31-Mar-2017 03:10 Unknown

Sample Name: LCSE48 Lab Sample ID: LCSE48

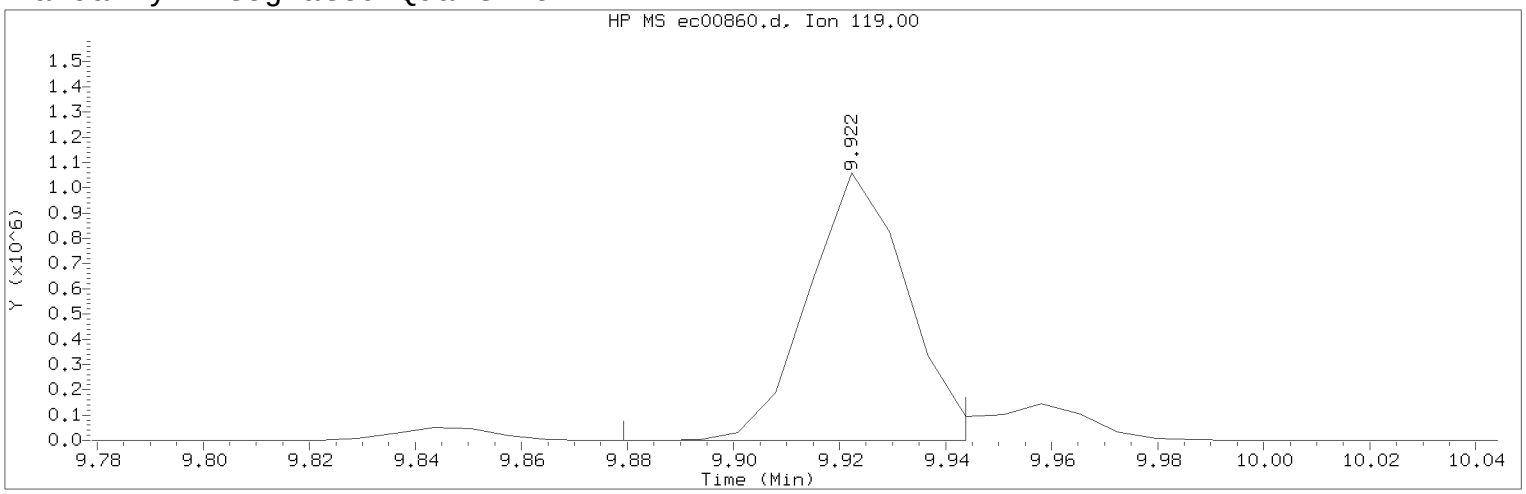
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 3008143
Concentration (ppb(v)) : 18.3462
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 794 Y at integration end: 794

Digitally signed by Jacob E. Bailey on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:06 jeb07445

Sample Name: LCSE48 Lab Sample ID: LCSE48

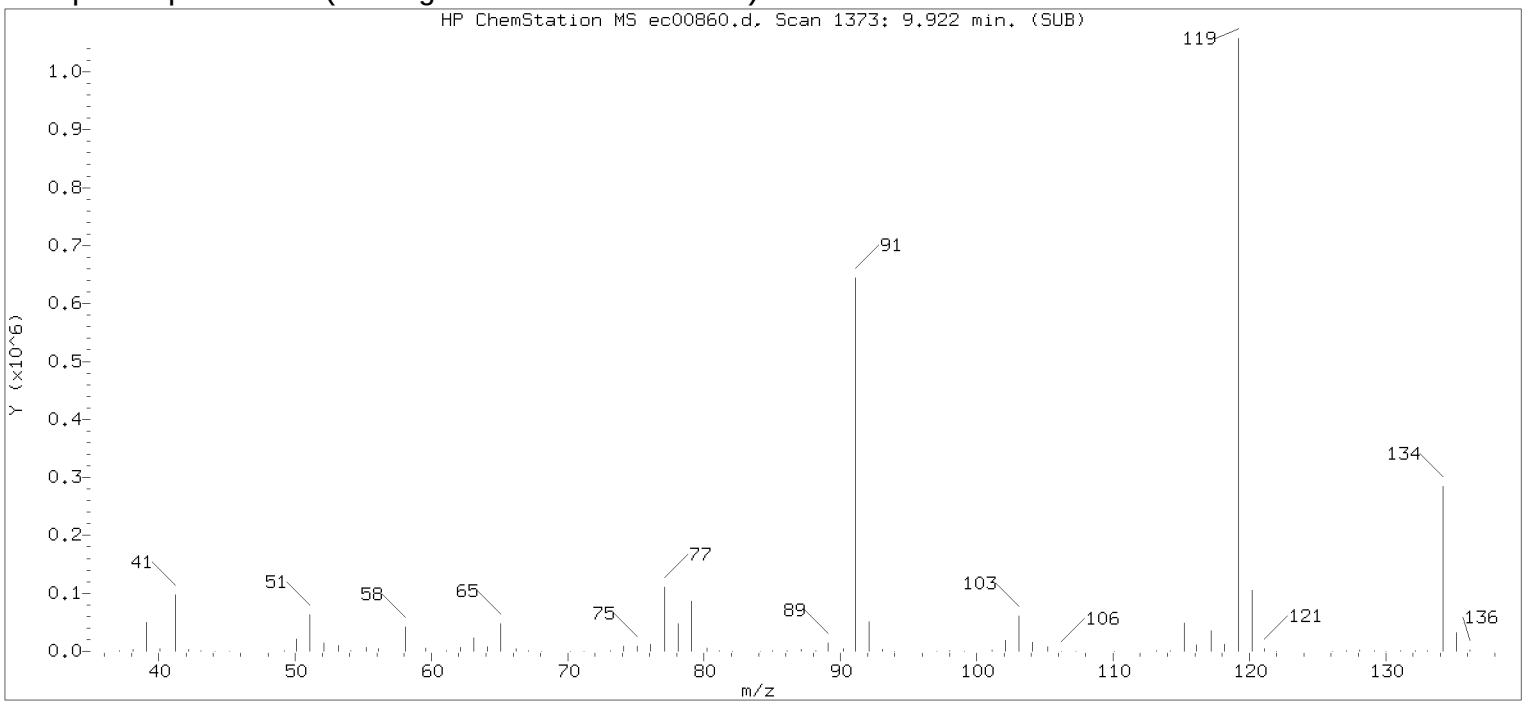
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area (flag) : 1367692M
Concentration (ppb(v)) : 11.3683
Integration start scan : 1366 Integration stop scan: 1375
Y at integration start : 200 Y at integration end: 200

Reason for manual integration: improper integration

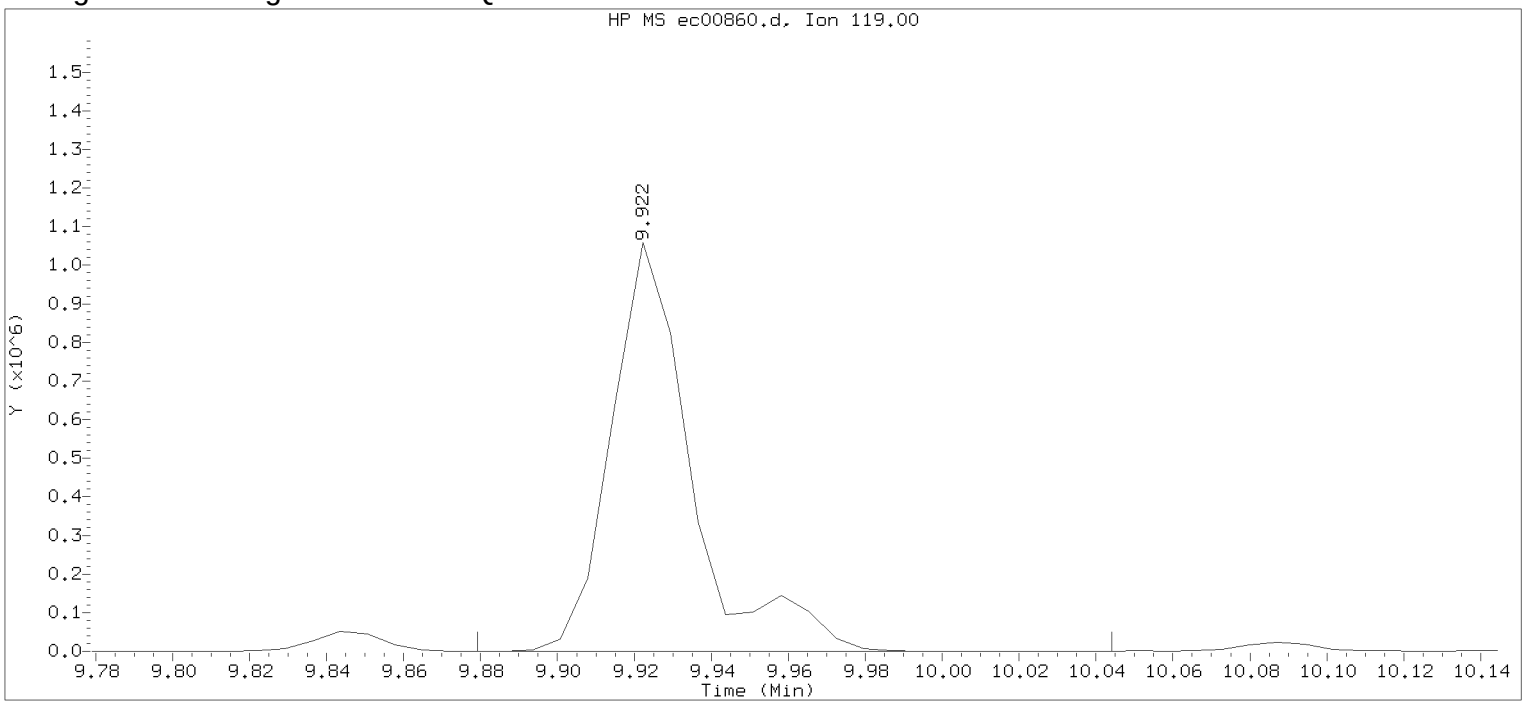
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:17.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



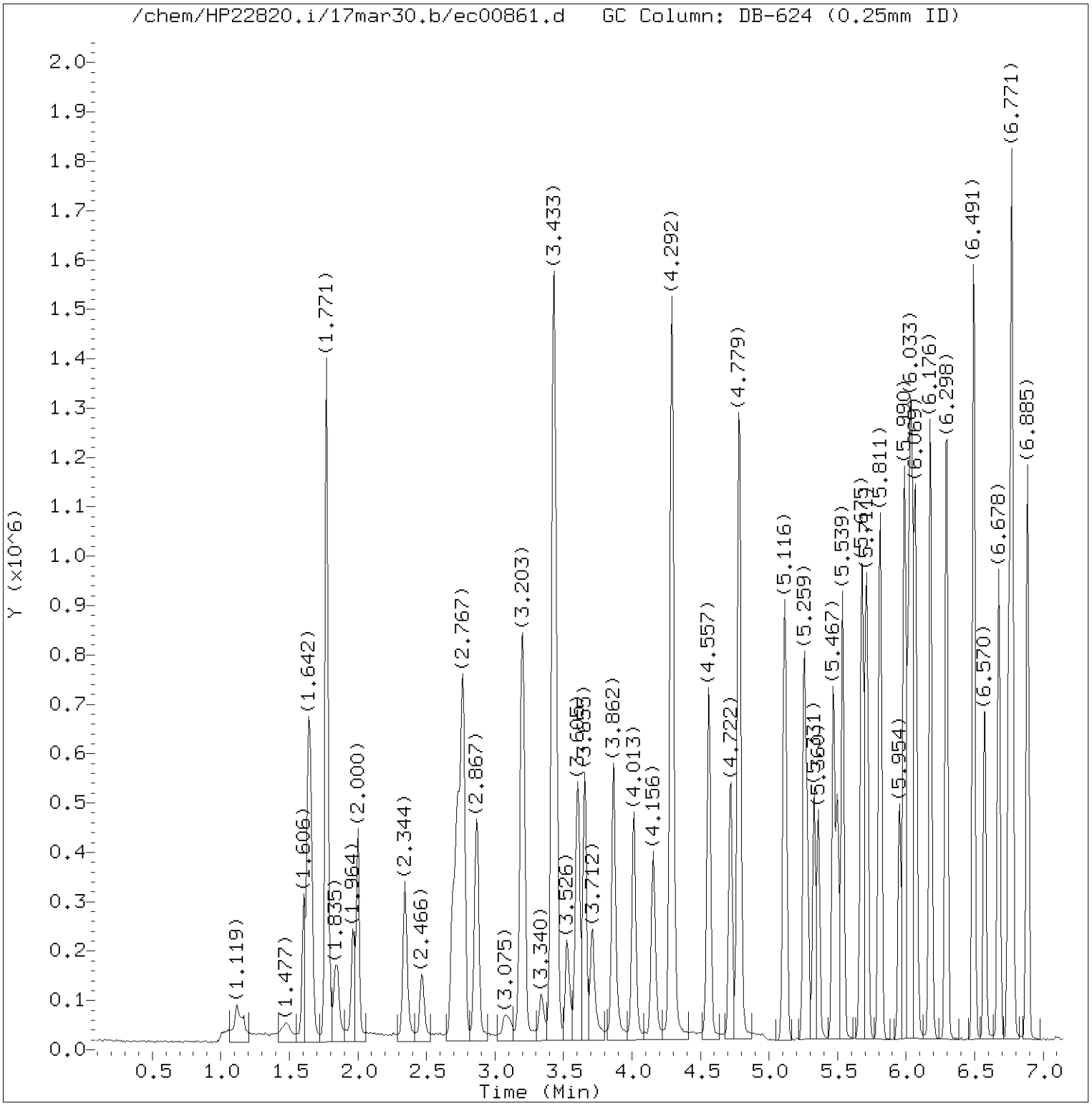
Data File: /chem/HP22820.i/17mar30.b/ec00860.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 02:51 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 03:10 Unknown

Sample Name: LCSE48 Lab Sample ID: LCSE48

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area : 1536136
Concentration (ppb(v)) : 9.3222
Integration start scan : 1366 Integration stop scan: 1389
Y at integration start : 169 Y at integration end: 169

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Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

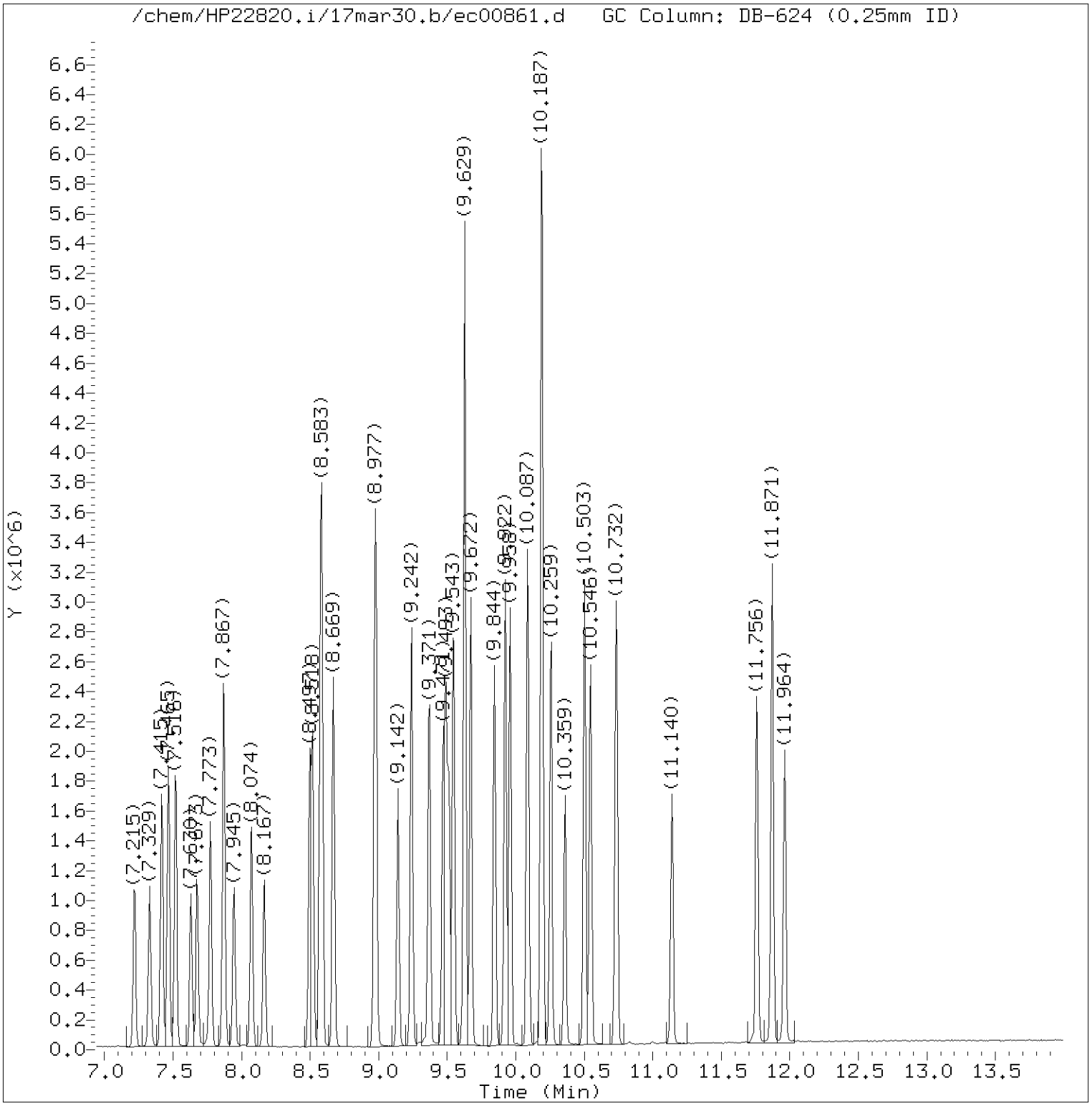
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.606	41	156640	10.323
2) Dichlorodifluoromethane	(1)	1.642	85	650845	10.694
3) Chlorodifluoromethane	(1)	1.663	51	352494	11.127
4) Freon 114	(1)	1.771	85	685627	10.757
5) Chloromethane	(1)	1.835	50	164529	10.075
6) Vinyl Chloride	(1)	1.964	62	249671	10.902
7) 1,3-Butadiene	(1)	2.000	54	171912	10.213
8) Bromomethane	(1)	2.344	94	255119	10.889
9) Chloroethane	(1)	2.466	64	138058	10.820
10) Bromoethene	(1)	2.695	106	279650	10.973
11) Dichlorofluoromethane	(1)	2.731	67	550535	11.024
12) Trichlorofluoromethane	(1)	2.767	101	690732	10.548
13) Pentane	(1)	2.867	43	345992	10.104
14) Ethanol	(1)	3.075	45	74728	13.000
15) Freon123a	(1)	3.196	67	518608	10.708
16) Acrolein	(1)	3.340	56	102515	11.616
17) 1,1-Dichloroethene	(1)	3.426	61	382958	10.817
18) Freon 113	(1)	3.433	103	395663	10.259
19) Acetone	(1)	3.526	43	290711	10.592
20) Methyl Iodide	(1)	3.605	142	738116	10.254
21) Carbon Disulfide	(1)	3.655	76	730582	10.416
22) Isopropanol	(1)	3.712	45	328408	13.454
24) 3-Chloropropene	(1)	3.862	76	134512	12.674
23) Acetonitrile	(1)	3.870	40	144393	11.349
25) Methylene Chloride	(1)	4.013	84	246415	11.803
26) tert-Butyl Alcohol	(1)	4.156	59	490441	12.182
28) trans-1,2-Dichloroethene	(1)	4.285	61	347693	10.588
29) Methyl t-Butyl Ether	(1)	4.292	73	739206	10.382
27) Acrylonitrile	(1)	4.299	53	201977	11.053
30) Hexane	(1)	4.557	57	372611	10.479
31) 1,1-Dichloroethane	(1)	4.722	63	454897	10.535
32) Vinyl Acetate	(1)	4.779	86	78452	13.411
33) Di-Isopropyl Ether	(1)	4.779	45	725393	10.544
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	750602	10.420
35) cis-1,2-Dichloroethene	(1)	5.259	61	334715	10.694
37) 2-Butanone	(1)	5.281	72	139656	11.115
38) Ethyl Acetate	(1)	5.331	70	68428	10.141
39) Methyl Acrylate	(1)	5.360	55	417123	10.996

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	241705	10.000
41) Tetrahydrofuran	(1)	5.496	42	248755	10.990
42) Chloroform	(1)	5.539	83	574013	10.549
43) 1,1,1-Trichloroethane	(1)	5.675	97	579815	10.537
44) Cyclohexane	(1)	5.711	56	393324	10.558
45) Carbon Tetrachloride	(1)	5.811	117	604837	10.586
46) Benzene	(2)	5.990	78	888012	10.546
47) 1,2-Dichloroethane	(2)	6.011	62	341657	10.771
48) Isooctane	(2)	6.033	57	1209783	10.443
49) Tert-Amyl Methyl Ether	(2)	6.069	73	796938	10.432
50) Heptane	(2)	6.176	43	396411	10.334
51)*1,4-Difluorobenzene	(2)	6.298	114	907620	10.000
52) Trichloroethene	(2)	6.491	130	465298	10.724
53) Ethyl Acrylate	(2)	6.570	55	546215	11.154
36) 1,2-Dichloroethene (total)	(1)		61	682408	21.282
54) 1,2-Dichloropropane	(2)	6.678	63	296337	10.286
57) Methyl Methacrylate	(2)	6.749	69	297913	10.612
55) Dibromomethane	(2)	6.771	174	456560	10.689
56) 1,4-Dioxane	(2)	6.778	88	226571	11.228
58) Bromodichloromethane	(2)	6.885	83	583428	10.626
59) cis-1,3-Dichloropropene	(2)	7.215	75	517561	10.604
60) 4-Methyl-2-Pentanone	(2)	7.329	43	534166	10.923
61) Toluene	(3)	7.465	91	1121222	10.408
62) Octane	(3)	7.516	43	554821	10.492
63) trans-1,3-Dichloropropene	(3)	7.630	75	442315	10.647
65) Ethyl Methacrylate	(3)	7.673	69	496760	11.110
66) 1,1,2-Trichloroethane	(3)	7.773	97	392661	10.909
67) Tetrachloroethene	(3)	7.874	166	658485	10.385
68) 2-Hexanone	(3)	7.945	43	510595	11.259
69) Dibromochloromethane	(3)	8.074	127	512202	10.935
70) 1,2-Dibromoethane	(3)	8.167	107	613250	10.871
71)*Chlorobenzene-d5	(3)	8.497	117	892402	10.000
72) Chlorobenzene	(3)	8.518	112	967068	10.469
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	500333	10.777
74) Ethylbenzene	(3)	8.583	91	1472994	10.671
75) m/p-Xylene	(3)	8.669	91	1163205	10.669
76) o-Xylene	(3)	8.970	91	1130524	10.699
78) Styrene	(3)	8.984	104	913863	11.433

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

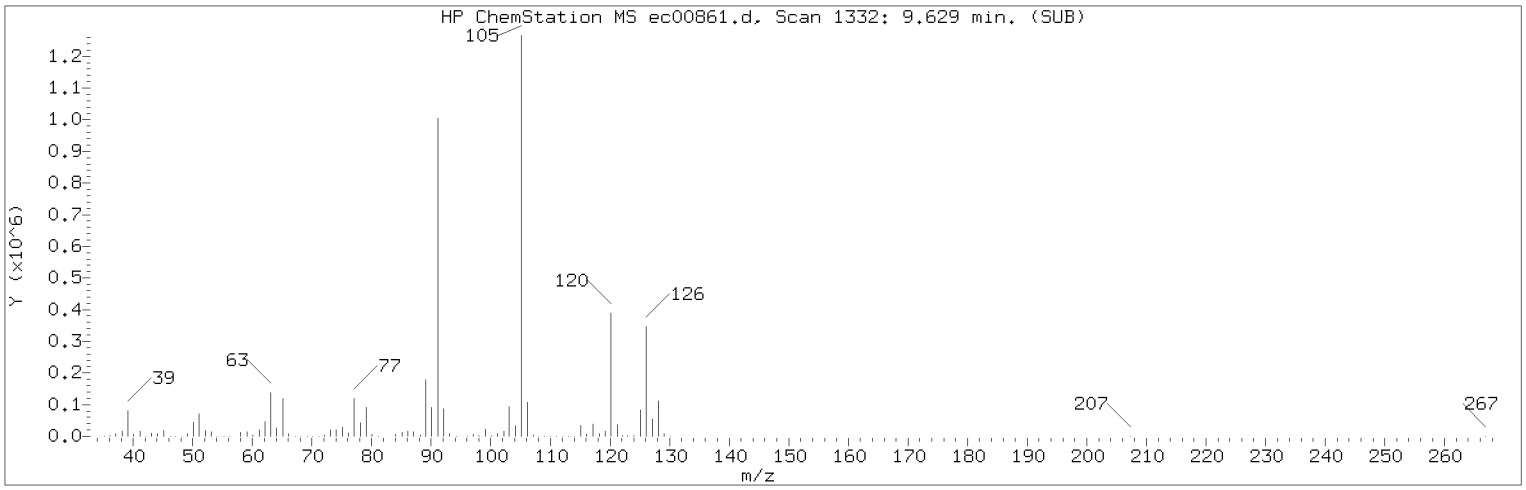
Sample Name: LCSDE48 Lab Sample ID: LCSDE48

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	669913	11.308
80) Cumene	(3)	9.242	105	1656011	11.136
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	790831	11.344
81) Bromobenzene	(3)	9.493	156	625365	10.980
83) 1,2,3-Trichloropropane	(3)	9.514	110	260701	11.198
84) n-Propylbenzene	(3)	9.550	120	481322	10.600
86) 4-Ethyltoluene	(3)	9.629	105	1665083M	11.340
85) 2-Chlorotoluene	(3)	9.629	126	451553	11.036
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	1379490M	11.304
88) Alpha Methyl Styrene	(3)	9.844	118	693864	11.938
89) tert-Butylbenzene	(3)	9.922	119	1385435M	11.525
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	1361300	11.792
91) sec-Butylbenzene	(3)	10.087	105	1984196	11.727
92) 1,3-Dichlorobenzene	(3)	10.187	146	1036588	11.869
94) p-Isopropyltoluene	(3)	10.187	119	1715471	11.941
93) 1,4-Dichlorobenzene	(3)	10.259	146	1038959	11.724
95) Benzyl Chloride	(3)	10.359	91	993142	13.017
97) n-Butylbenzene	(3)	10.503	91	1442586	12.111
96) 1,2-Dichlorobenzene	(3)	10.546	146	941419	11.944
98) Hexachloroethane	(3)	10.732	117	442185	13.189
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	455700	14.780
100) 1,2,4-Trichlorobenzene	(3)	11.756	180	712768	15.075
101) Hexachlorobutadiene	(3)	11.871	225	595048	14.012
102) Naphthalene	(3)	11.964	128	1394103	16.259
64) 1,3-Dichloropropene (total)	(3)		75	959876	21.252
77) Xylene (total)	(3)		91	2293729	21.369

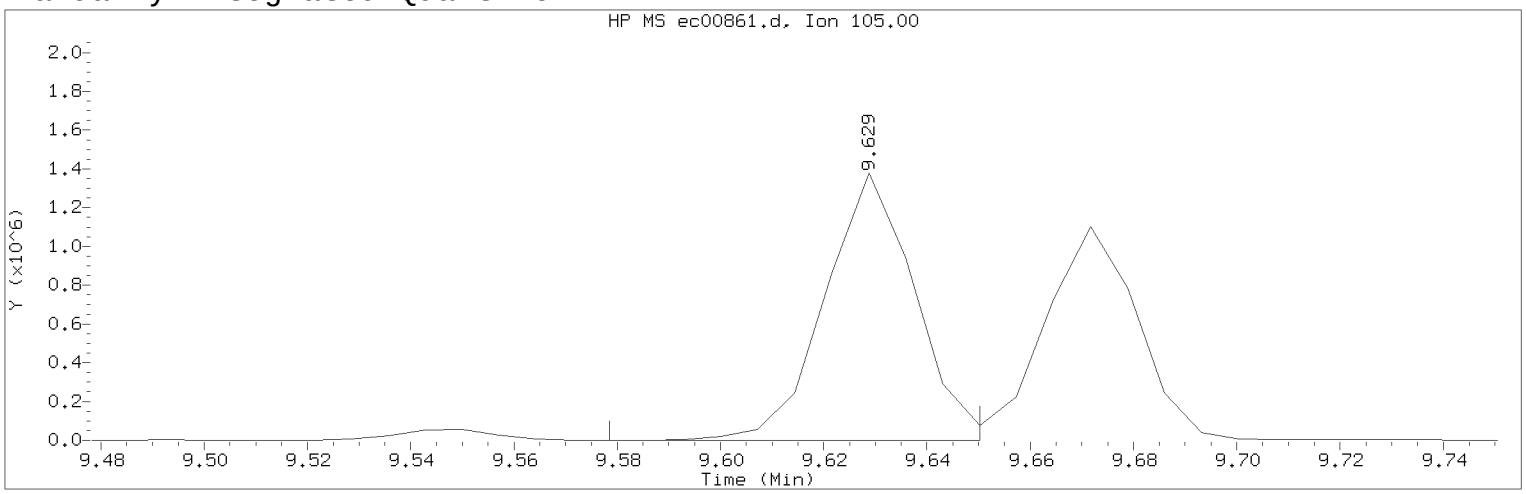
M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

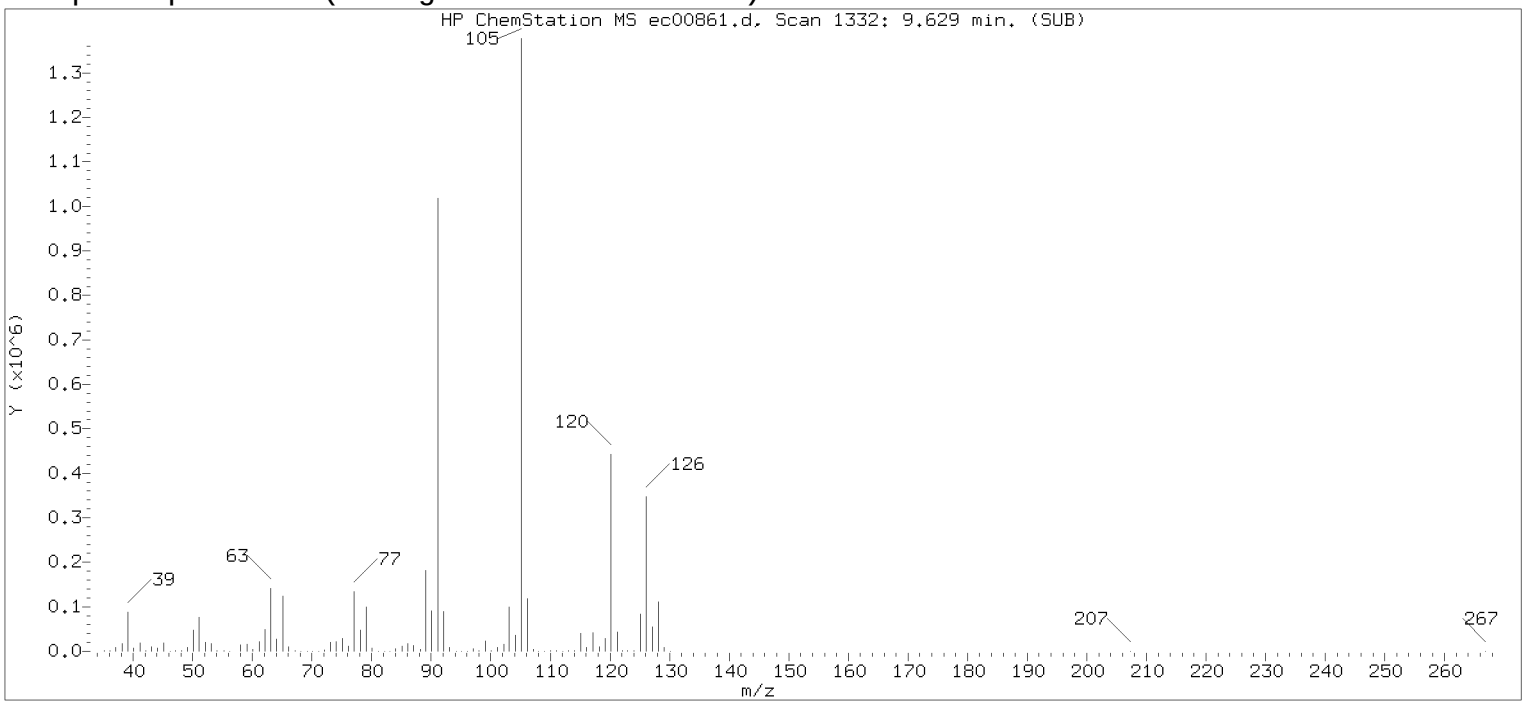
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 1665083M
Concentration (ppb(v)) : 11.3401
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 986 Y at integration end: 986

Reason for manual integration: improper integration

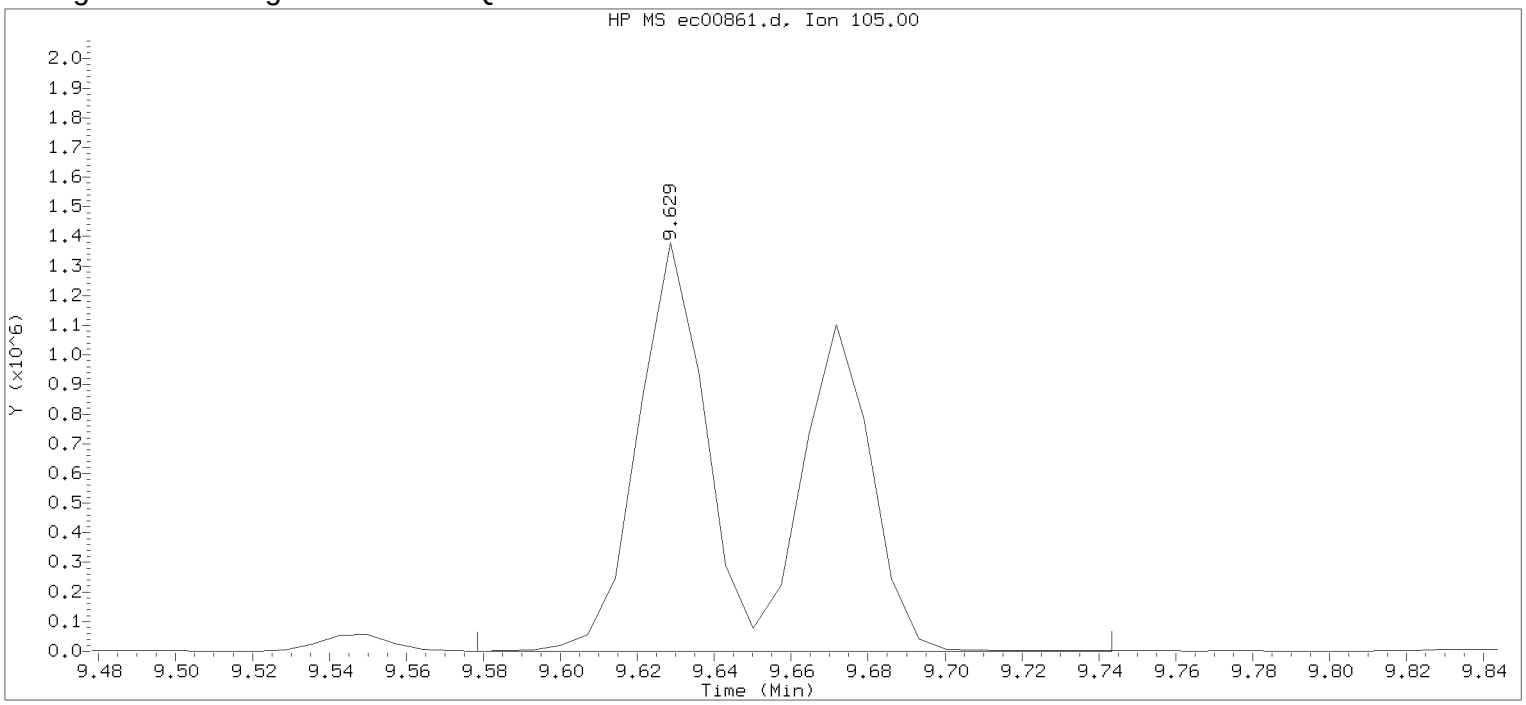
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:17.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

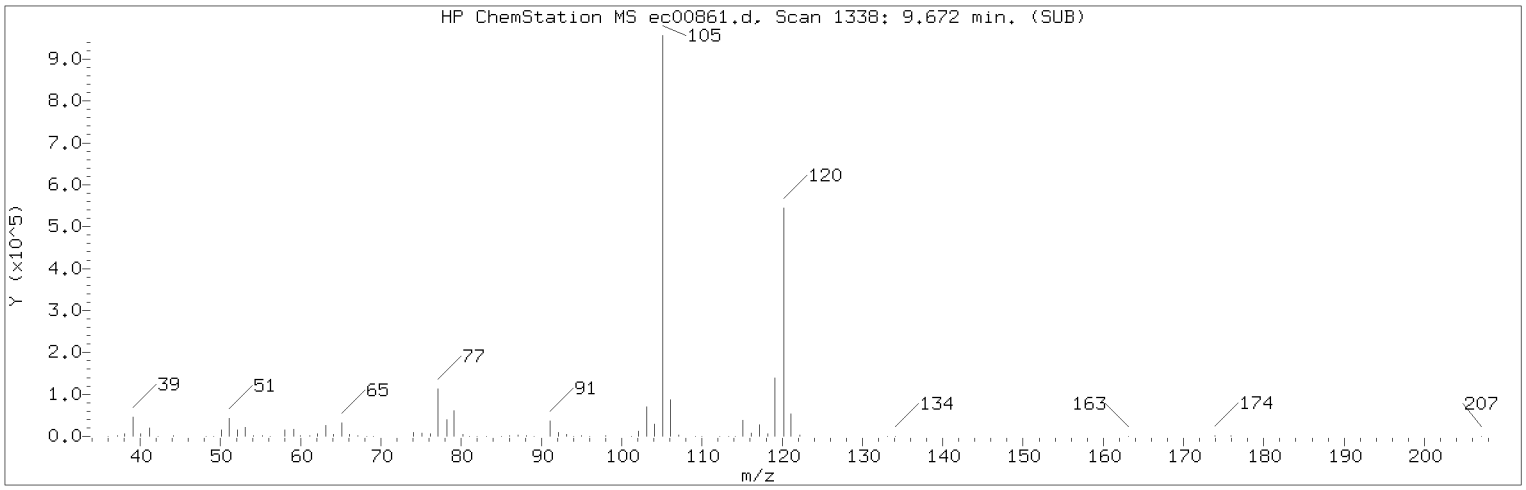
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 03:44 Unknown

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

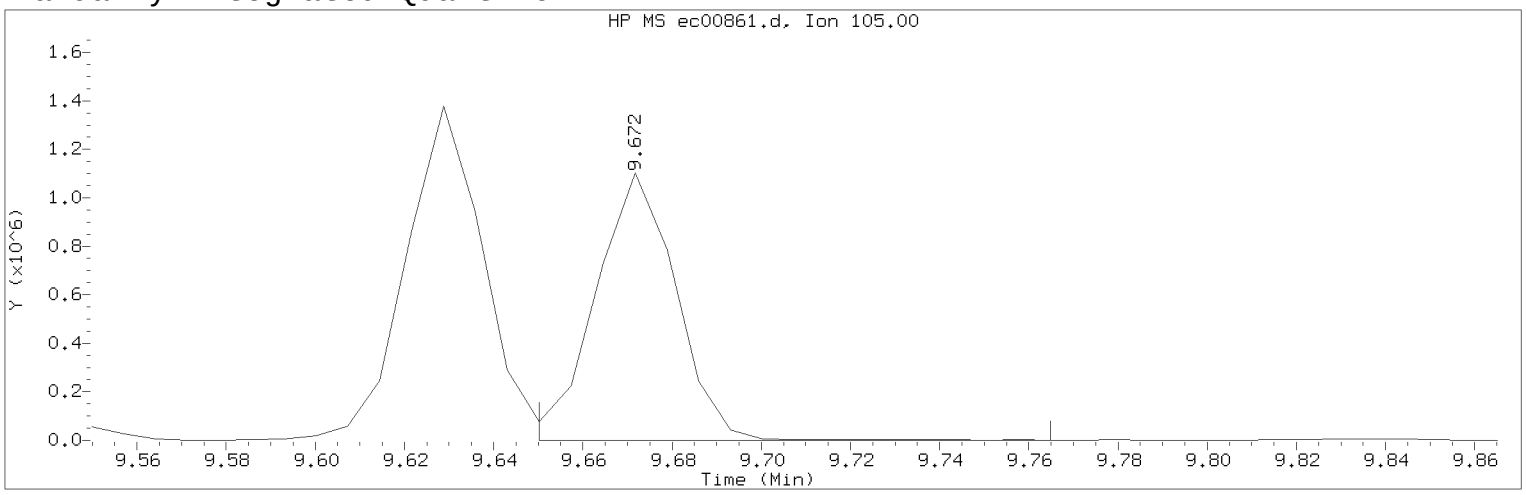
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 3011398
Concentration (ppb(v)) : 15.2450
Integration start scan : 1324 Integration stop scan: 1347
Y at integration start : 942 Y at integration end: 942

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Target 3.5 esignature userVER01jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

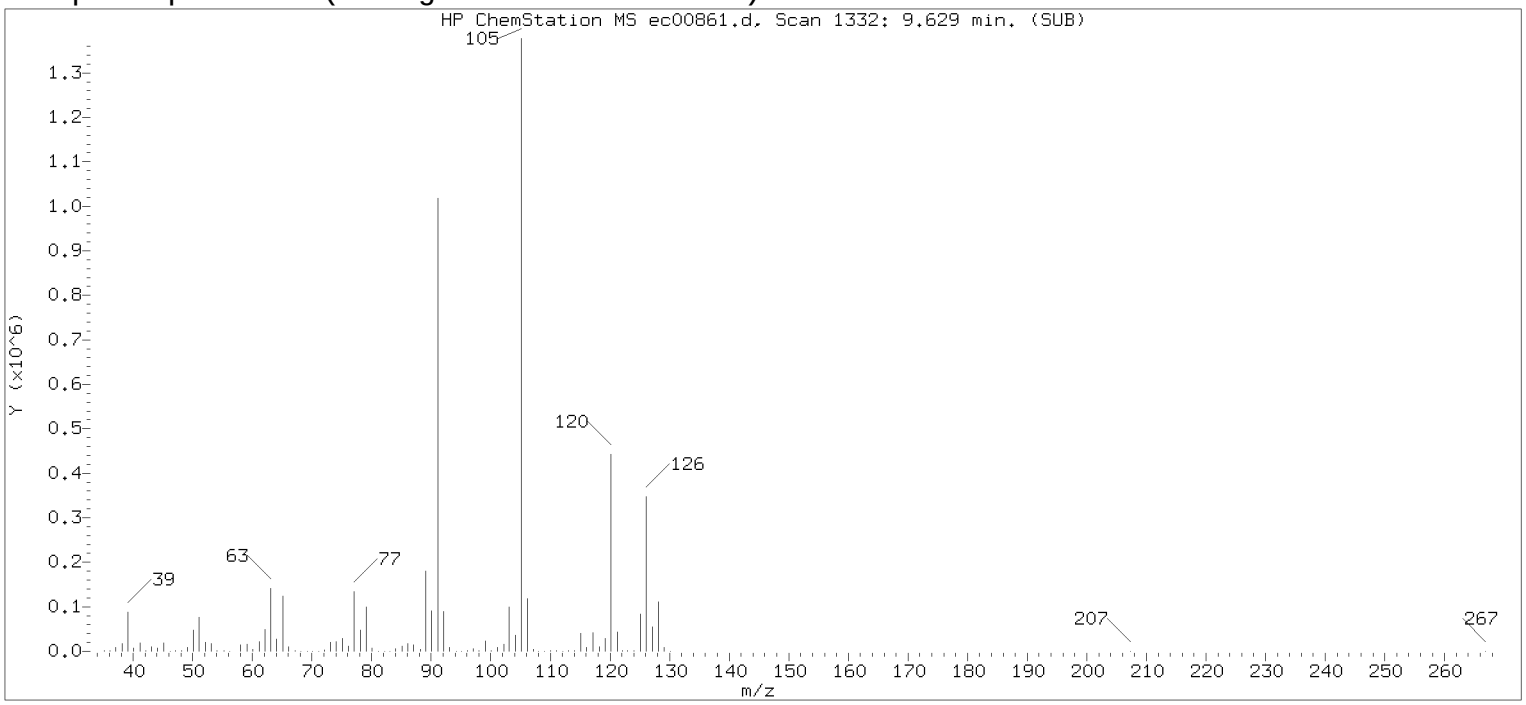
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 1379490M
Concentration (ppb(v)) : 11.3040
Integration start scan : 1334 Integration stop scan: 1350
Y at integration start : 948 Y at integration end: 948

Reason for manual integration: improper integration

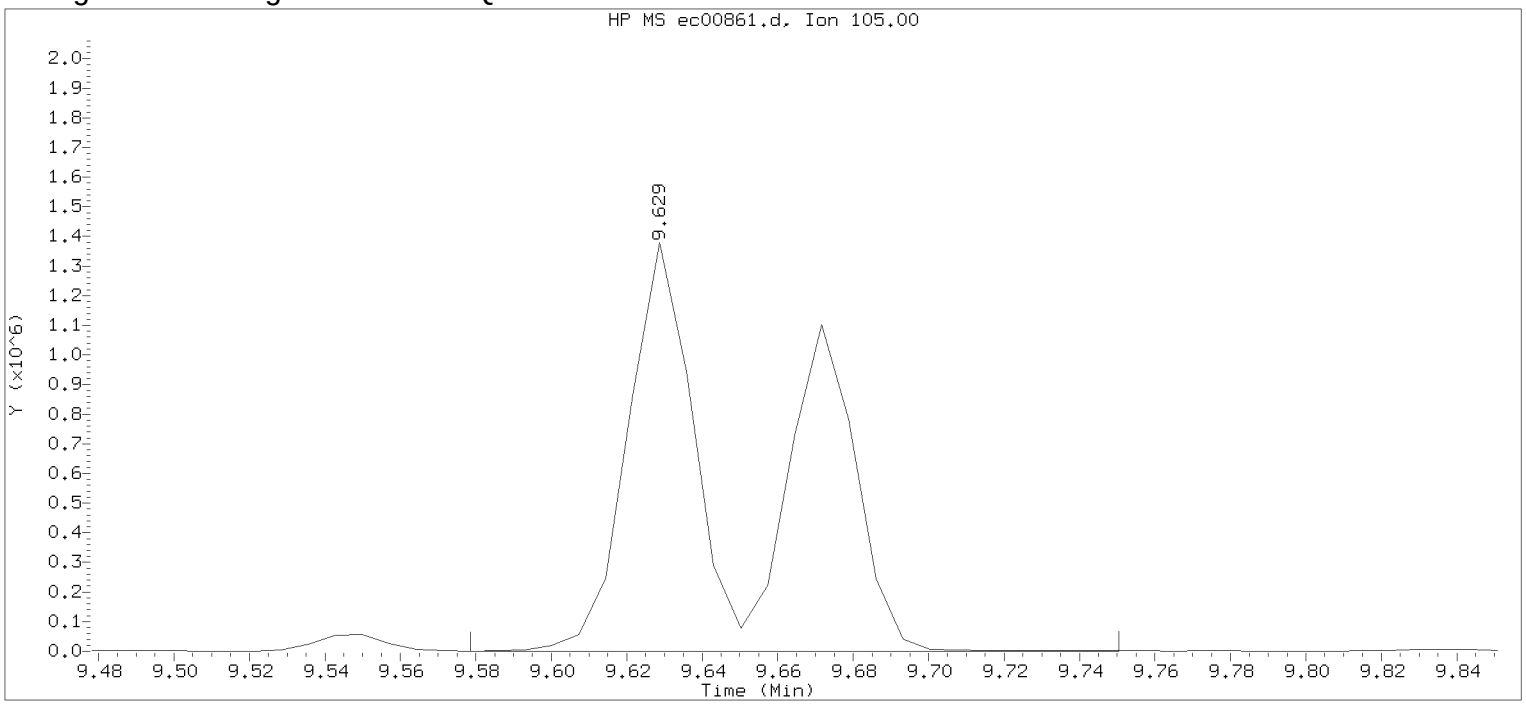
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:17.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

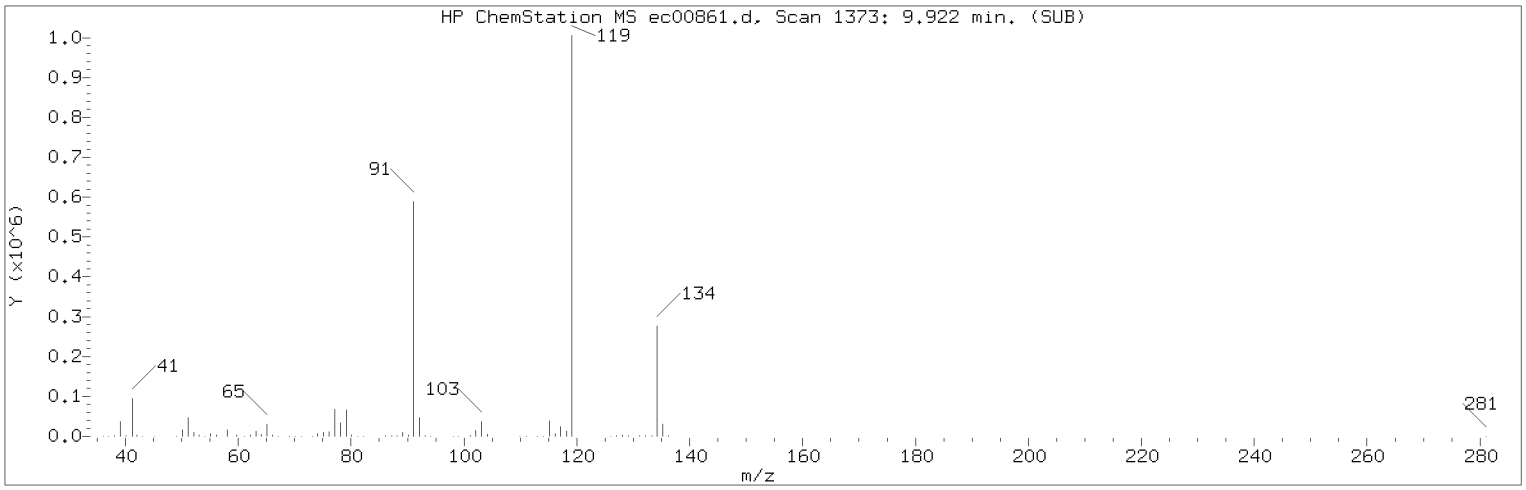
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
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Date, time and analyst ID of latest file update: 31-Mar-2017 03:44 Unknown

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

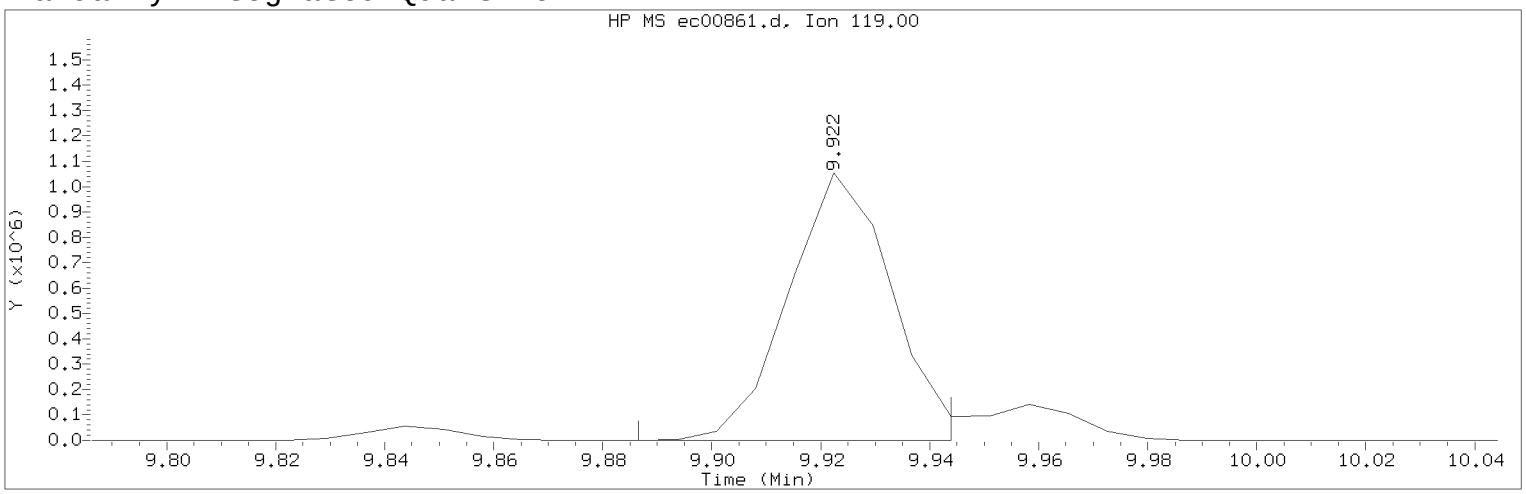
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 3011263
Concentration (ppb(v)) : 18.3792
Integration start scan : 1324 Integration stop scan: 1348
Y at integration start : 972 Y at integration end: 972

Digitally signed by Jacob E. Bailey on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00861.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 31-Mar-2017 15:07 jeb07445

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

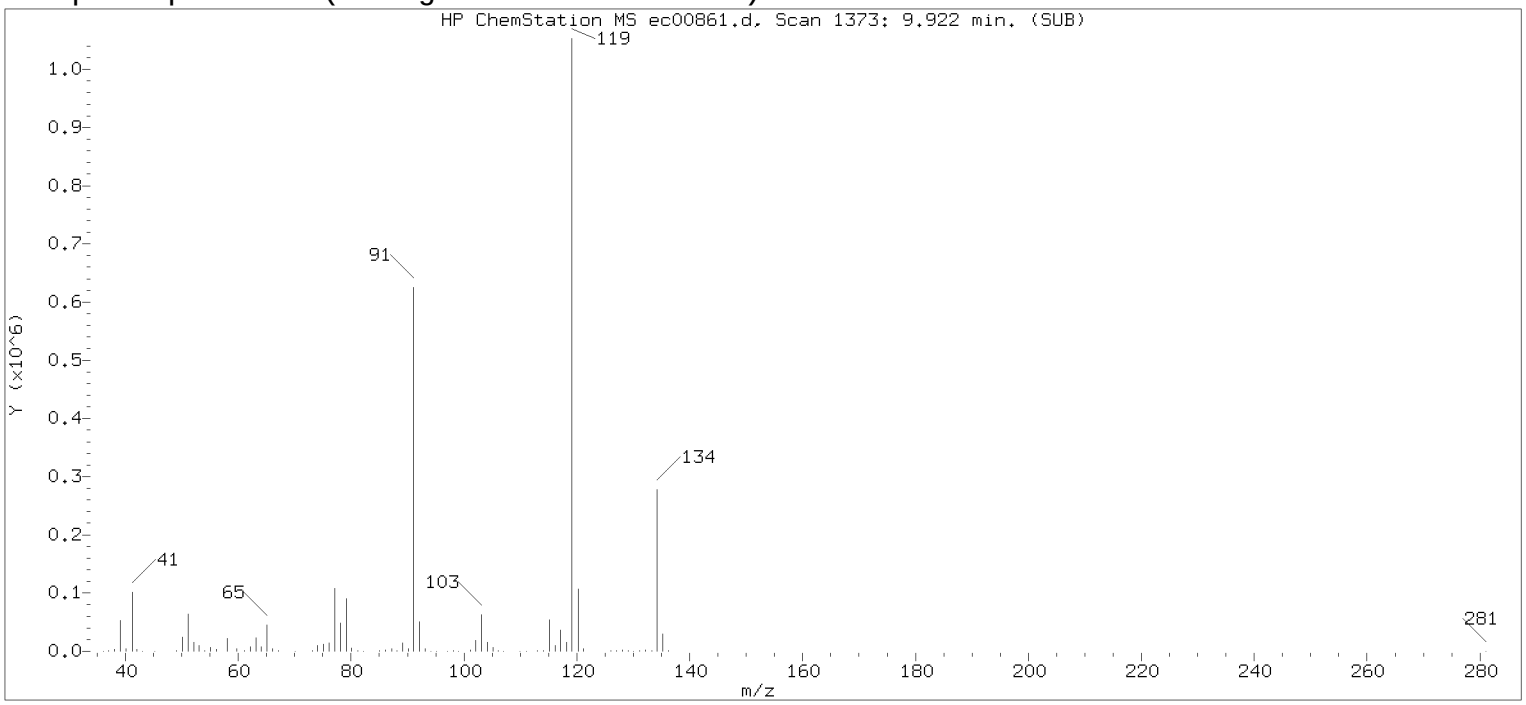
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area (flag) : 1385435M
Concentration (ppb(v)) : 11.5245
Integration start scan : 1367 Integration stop scan: 1375
Y at integration start : 348 Y at integration end: 348

Reason for manual integration: improper integration

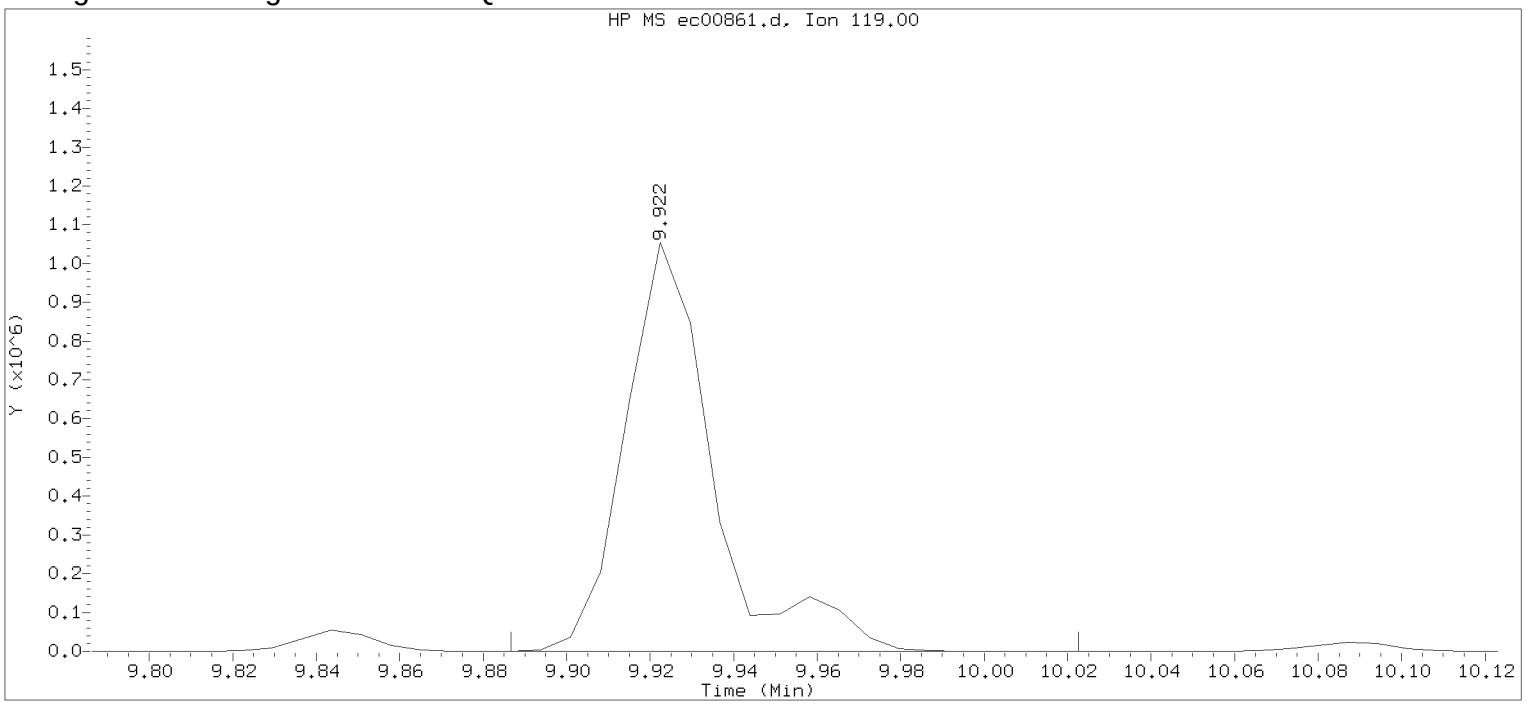
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 03/31/2017 at 15:08.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:17.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



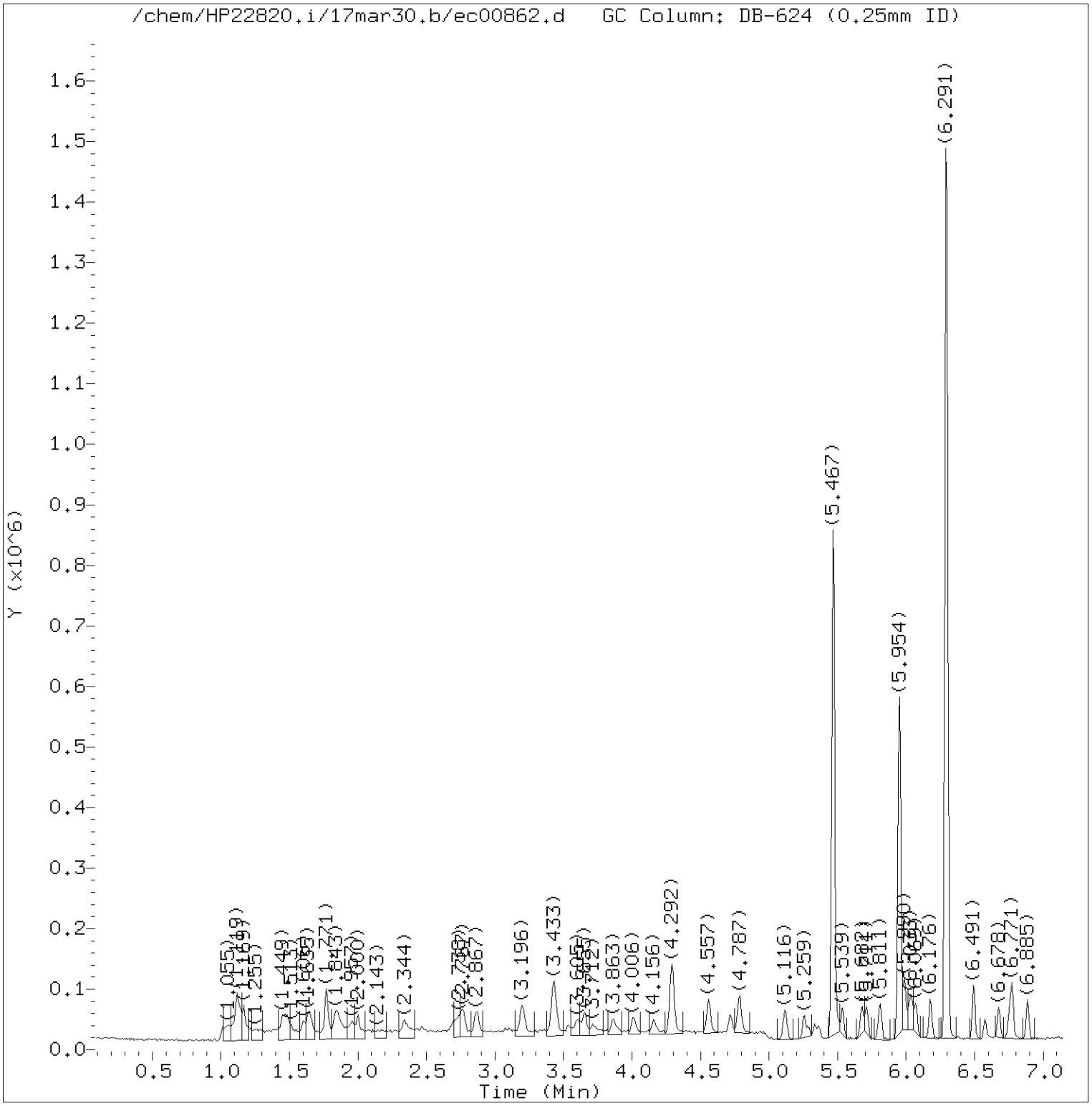
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Injection date and time: 31-MAR-2017 03:25 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 03:44 Unknown

Sample Name: LCSDE48 Lab Sample ID: LCSDE48

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area : 1553956
Concentration (ppb(v)) : 9.4375
Integration start scan : 1367 Integration stop scan: 1386
Y at integration start : 0 Y at integration end: 0

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Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

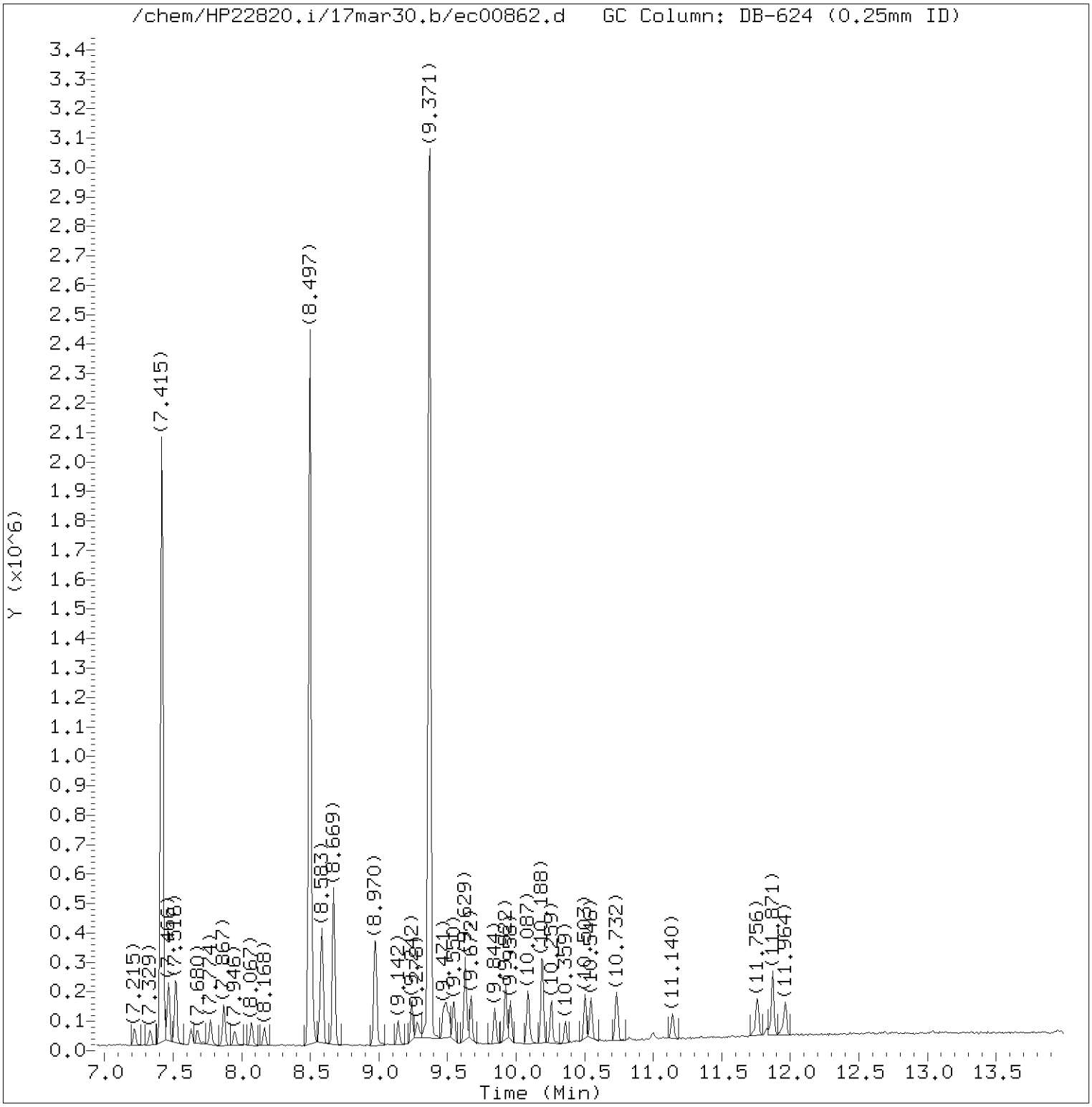
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.599	41	9257	0.514
2) Dichlorodifluoromethane	(1)	1.642	85	33774	0.468
3) Chlorodifluoromethane	(1)	1.656	51	17976	0.478
4) Freon 114	(1)	1.771	85	35613	0.471
5) Chloromethane	(1)	1.835	50	11687	0.603
6) Vinyl Chloride	(1)	1.964	62	11807	0.435
7) 1,3-Butadiene	(1)	2.000	54	8567	0.429
8) Bromomethane	(1)	2.337	94	20205	0.727
9) Chloroethane	(1)	2.473	64	6634	0.438
10) Bromoethene	(1)	2.695	106	13884	0.459
11) Dichlorofluoromethane	(1)	2.731	67	26740	0.451
12) Trichlorofluoromethane	(1)	2.759	101	36321	0.467
13) Pentane	(1)	2.874	43	27163	0.669
14) Ethanol	(1)	3.082	45	9215	1.351
15) Freon123a	(1)	3.204	67	30501	0.531
16) Acrolein	(1)	3.340	56	6203	0.592
17) 1,1-Dichloroethene	(1)	3.418	61	20262	0.482
18) Freon 113	(1)	3.433	103	21646	0.473
19) Acetone	(1)	3.540	43	22620	0.695
20) Methyl Iodide	(1)	3.605	142	41319	0.484
21) Carbon Disulfide	(1)	3.655	76	39685	0.477
22) Isopropanol	(1)	3.712	45	24502	0.846
24) 3-Chloropropene	(1)	3.863	76	6692	0.531
23) Acetonitrile	(1)	3.891	40	8658	0.574
25) Methylene Chloride	(1)	4.006	84	14303	0.577
26) tert-Butyl Alcohol	(1)	4.156	59	27842	0.583
28) trans-1,2-Dichloroethene	(1)	4.292	61	19333	0.496
29) Methyl t-Butyl Ether	(1)	4.292	73	83391	0.987
27) Acrylonitrile	(1)	4.314	53	10140	0.468
30) Hexane	(1)	4.557	57	30626	0.726
31) 1,1-Dichloroethane	(1)	4.722	63	26396	0.515
32) Vinyl Acetate	(1)	4.787	86	3914	0.564
33) Di-Isopropyl Ether	(1)	4.787	45	38328	0.470
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	40457	0.473
35) cis-1,2-Dichloroethene	(1)	5.259	61	17576	0.473
37) 2-Butanone	(1)	5.288	72	7749M	0.520
38) Ethyl Acetate	(1)	5.331	70	5581	0.697
39) Methyl Acrylate	(1)	5.360	55	21574	0.479

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	286790	10.000
41) Tetrahydrofuran	(1)	5.503	42	14453	0.538
42) Chloroform	(1)	5.539	83	31752	0.492
43) 1,1,1-Trichloroethane	(1)	5.675	97	31257	0.479
44) Cyclohexane	(1)	5.711	56	21939	0.496
45) Carbon Tetrachloride	(1)	5.811	117	32399	0.478
46) Benzene	(2)	5.990	78	76342	0.757
47) 1,2-Dichloroethane	(2)	6.011	62	18301	0.481
48) Isooctane	(2)	6.033	57	66168	0.477
49) Tert-Amyl Methyl Ether	(2)	6.076	73	43160	0.471
50) Heptane	(2)	6.176	43	22256	0.484
51)*1,4-Difluorobenzene	(2)	6.291	114	1087775	10.000
52) Trichloroethene	(2)	6.491	130	25061	0.482
53) Ethyl Acrylate	(2)	6.577	55	28226	0.481
36) 1,2-Dichloroethene (total)	(1)		61	36909	0.969
54) 1,2-Dichloropropane	(2)	6.678	63	16169	0.468
57) Methyl Methacrylate	(2)	6.749	69	18044	0.536
55) Dibromomethane	(2)	6.771	174	26103	0.510
56) 1,4-Dioxane	(2)	6.778	88	11114	0.460
58) Bromodichloromethane	(2)	6.885	83	31595	0.480
59) cis-1,3-Dichloropropene	(2)	7.222	75	26866	0.459
60) 4-Methyl-2-Pentanone	(2)	7.329	43	31623	0.540
61) Toluene	(3)	7.466	91	122833	0.879
62) Octane	(3)	7.516	43	66841	0.975
63) trans-1,3-Dichloropropene	(3)	7.630	75	23561	0.437
65) Ethyl Methacrylate	(3)	7.680	69	27519	0.475
66) 1,1,2-Trichloroethane	(3)	7.774	97	22324	0.478
67) Tetrachloroethene	(3)	7.874	166	36774	0.447
68) 2-Hexanone	(3)	7.946	43	29357	0.499
69) Dibromochloromethane	(3)	8.067	127	26450	0.435
70) 1,2-Dibromoethane	(3)	8.168	107	33028	0.451
71)*Chlorobenzene-d5	(3)	8.497	117	1157328	10.000
72) Chlorobenzene	(3)	8.519	112	53961	0.450
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	25300	0.420
74) Ethylbenzene	(3)	8.583	91	198634	1.110
75) m/p-Xylene	(3)	8.669	91	255398	1.806
76) o-Xylene	(3)	8.970	91	161405	1.178
78) Styrene	(3)	8.984	104	47248	0.456

* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

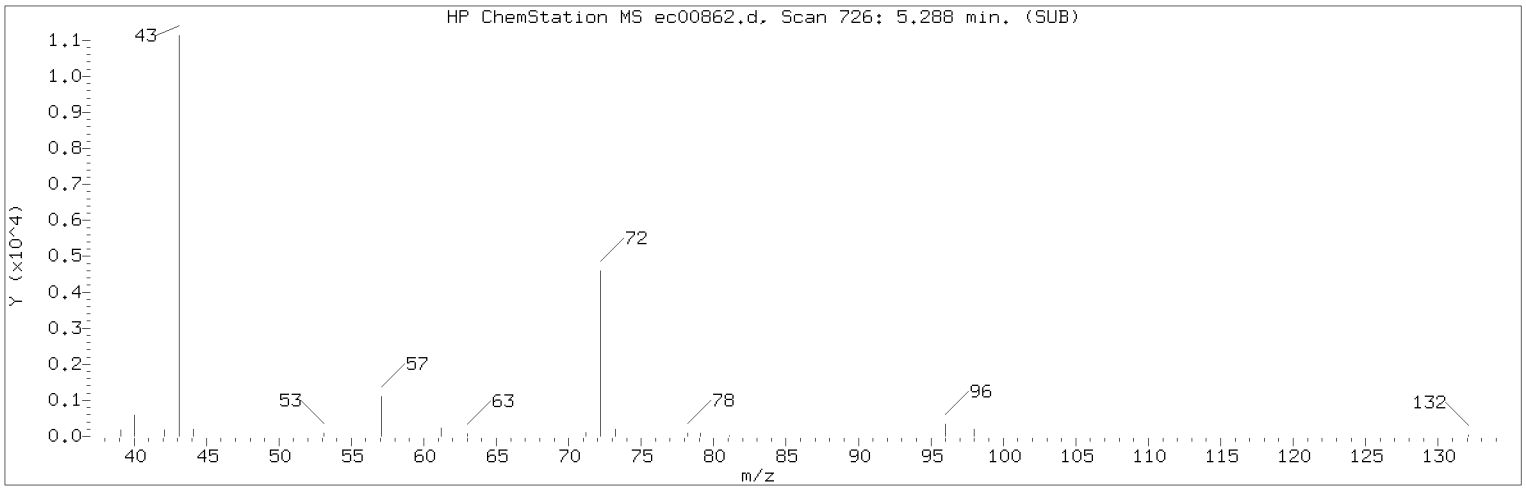
Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	30786	0.401
80) Cumene	(3)	9.242	105	88274	0.458
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	43364	0.480
81) Bromobenzene	(3)	9.493	156	33274	0.451
83) 1,2,3-Trichloropropane	(3)	9.514	110	13864	0.459
84) n-Propylbenzene	(3)	9.550	120	25740	0.437
86) 4-Ethyltoluene	(3)	9.629	105	80022M	0.420
85) 2-Chlorotoluene	(3)	9.629	126	22972	0.433
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	69730M	0.441
88) Alpha Methyl Styrene	(3)	9.844	118	31555	0.419
89) tert-Butylbenzene	(3)	9.922	119	102860	0.660
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	66982	0.447
91) sec-Butylbenzene	(3)	10.087	105	109101	0.497
92) 1,3-Dichlorobenzene	(3)	10.188	146	53936	0.476
94) p-Isopropyltoluene	(3)	10.188	119	84206	0.452
93) 1,4-Dichlorobenzene	(3)	10.259	146	56166	0.489
95) Benzyl Chloride	(3)	10.359	91	45576	0.461
97) n-Butylbenzene	(3)	10.503	91	72938	0.472
96) 1,2-Dichlorobenzene	(3)	10.546	146	51257	0.501
98) Hexachloroethane	(3)	10.732	117	23536	0.541
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	22768	0.569
100) 1,2,4-Trichlorobenzene	(3)	11.763	180	47466	0.774
101) Hexachlorobutadiene	(3)	11.871	225	41448	0.753
102) Naphthalene	(3)	11.964	128	103522	0.931
64) 1,3-Dichloropropene (total)	(3)		75	50427	0.897
77) Xylene (total)	(3)		91	416803	2.984

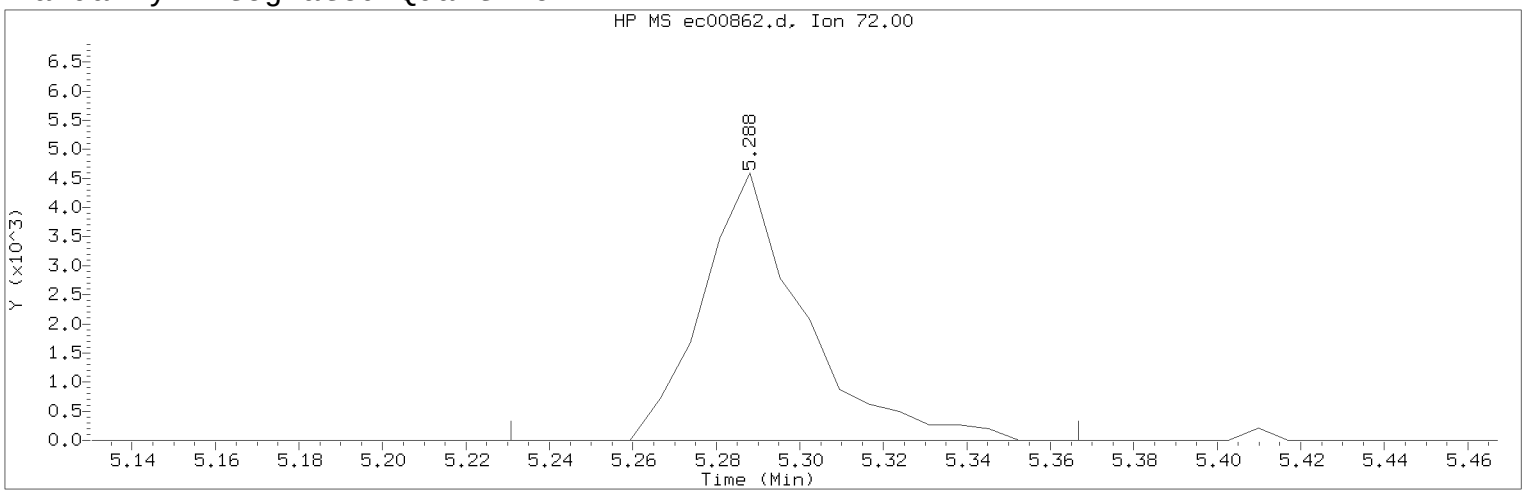
M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

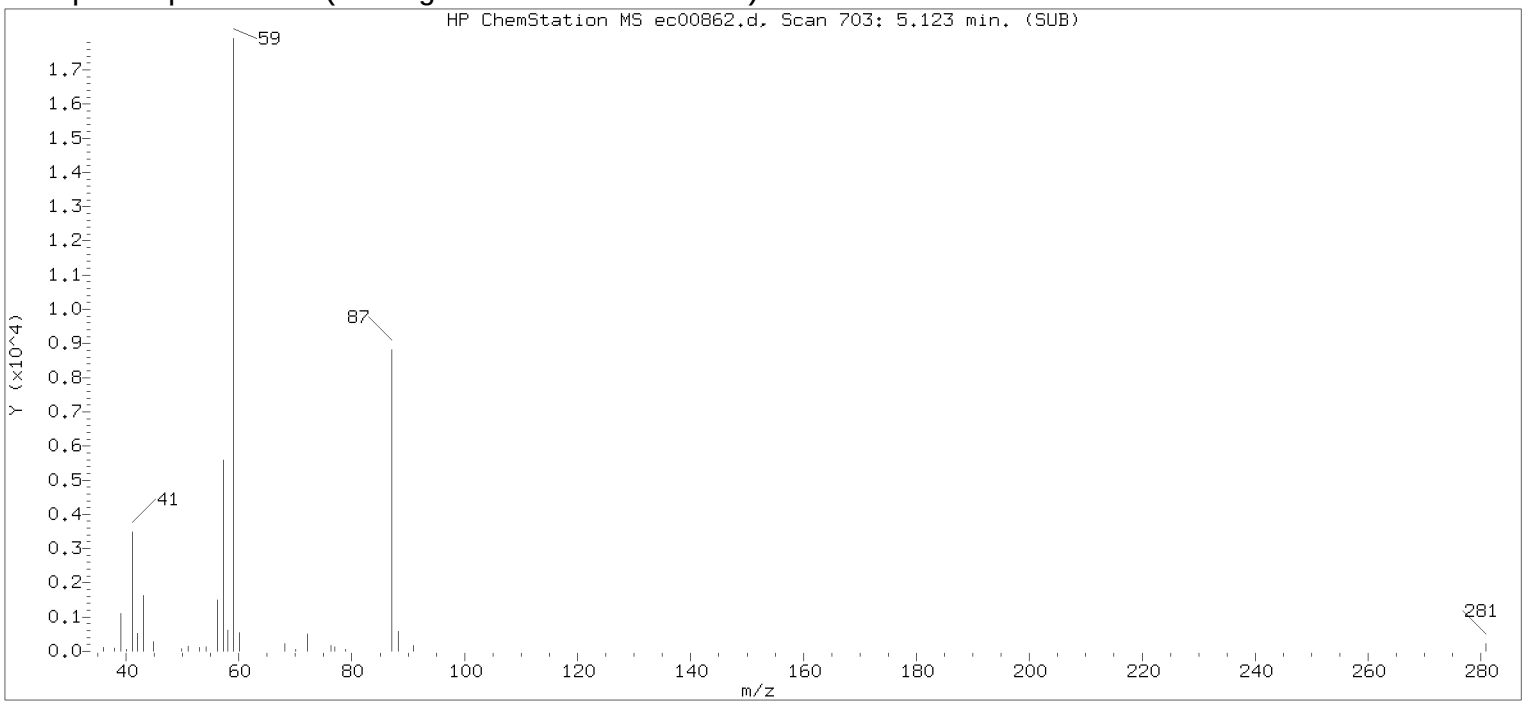
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 726
Retention Time (minutes): 5.288
Quant Ion : 72.00
Area (flag) : 7749M
Concentration (ppb(v)) : 0.5198
Integration start scan : 717 Integration stop scan: 736
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

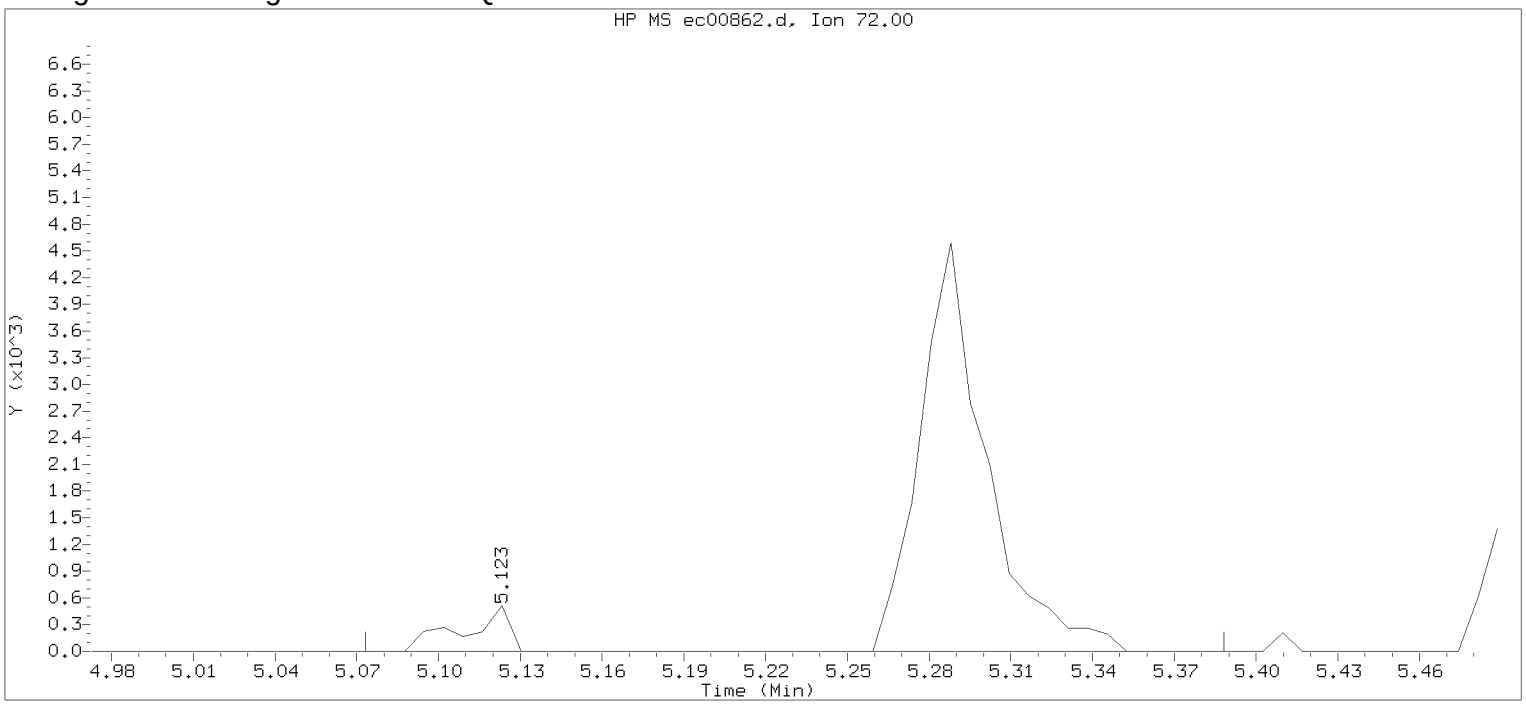
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

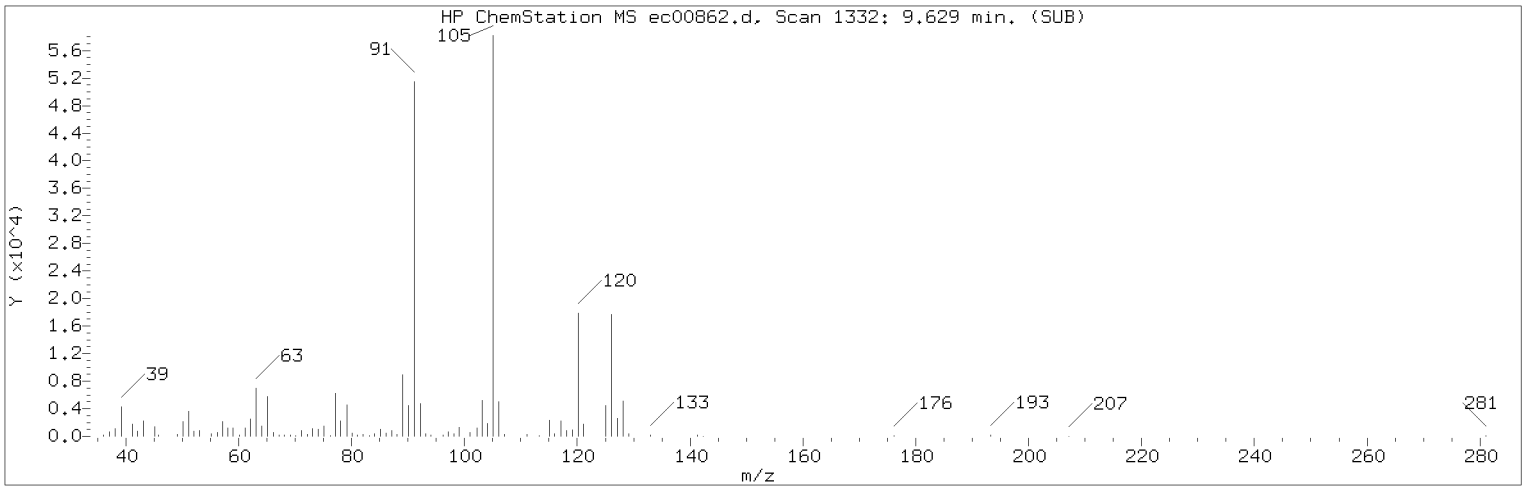
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:18 Unknown

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

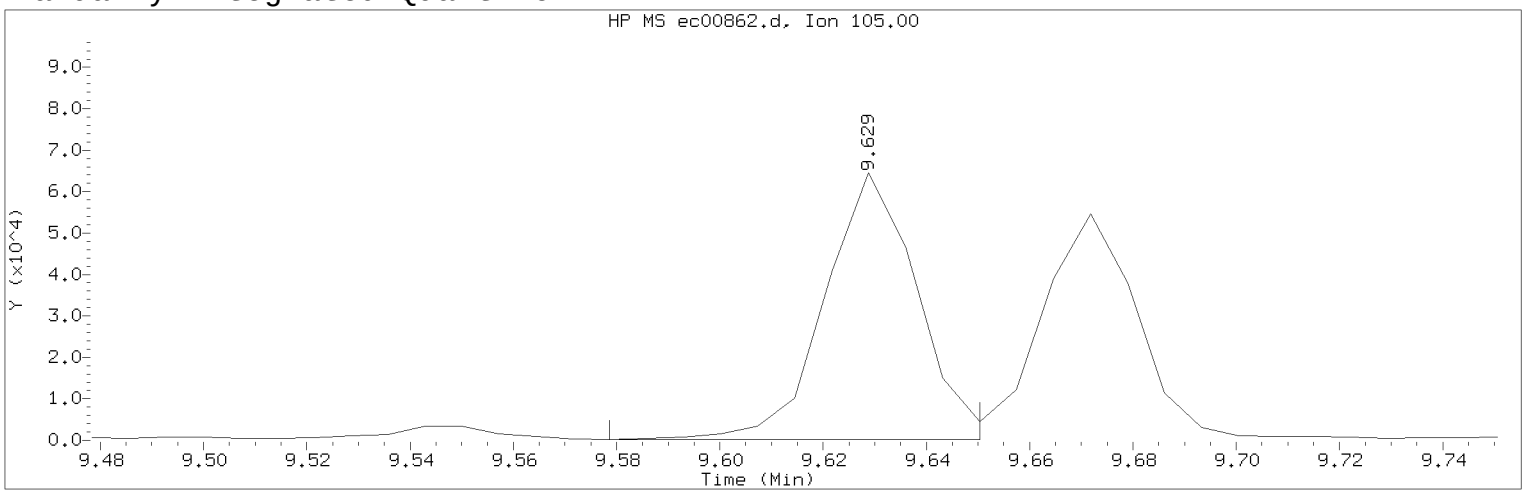
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 703
Retention Time (minutes): 5.123
Quant Ion : 72.00
Area : 8342
Concentration (ppb(v)) : 0.4216
Integration start scan : 695 Integration stop scan: 739
Y at integration start : 0 Y at integration end: 0

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Target 3.5 esignature user VER01jbs01317

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

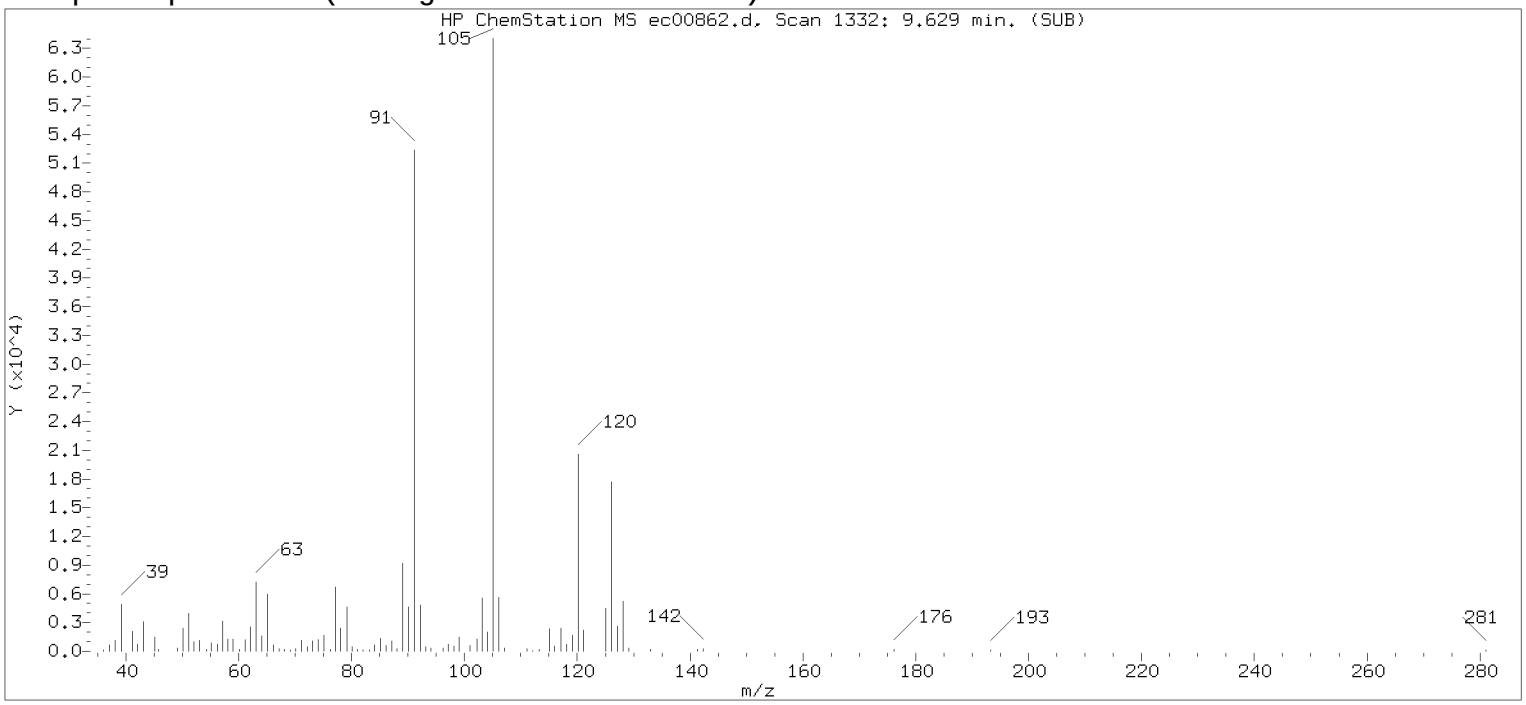
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 80022M
Concentration (ppb(v)) : 0.4202
Integration start scan : 1324 Integration stop scan: 1334
Y at integration start : 184 Y at integration end: 184

Reason for manual integration: improper integration

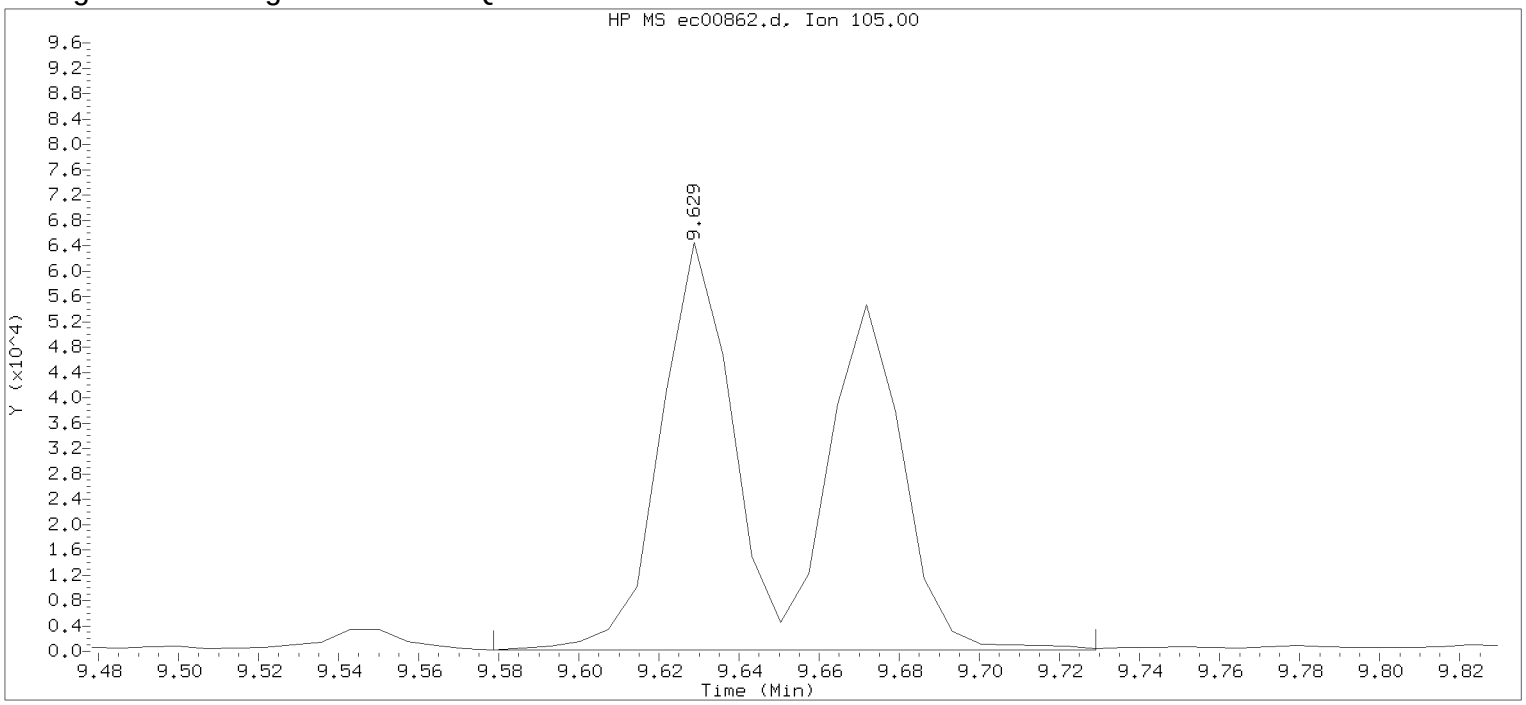
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

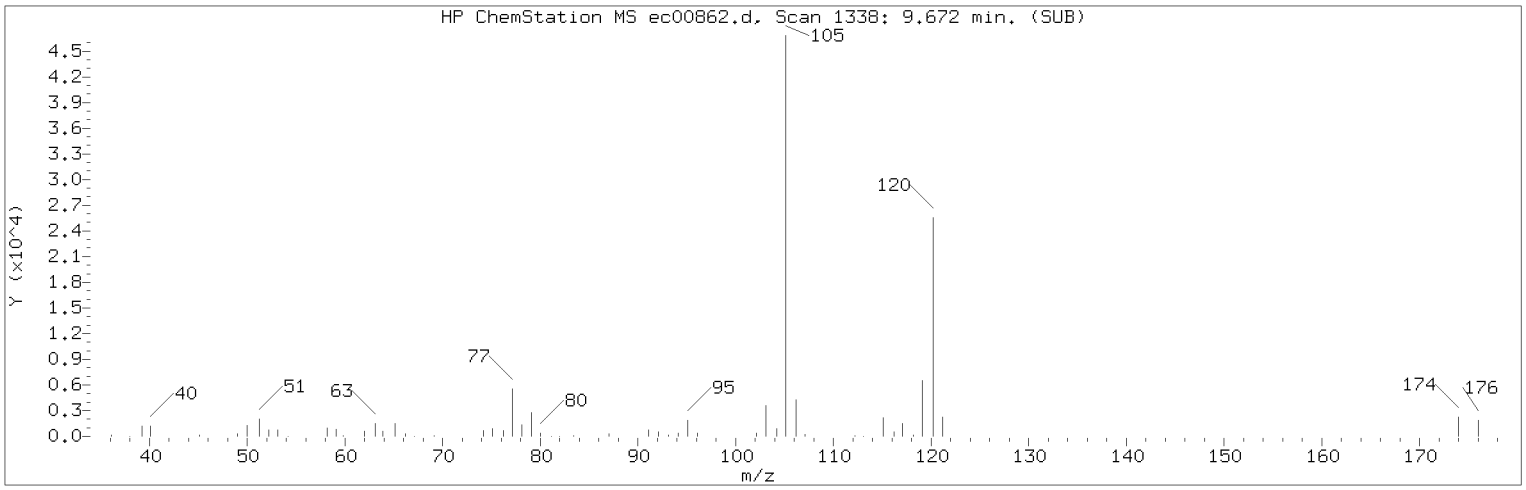
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:18 Unknown

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

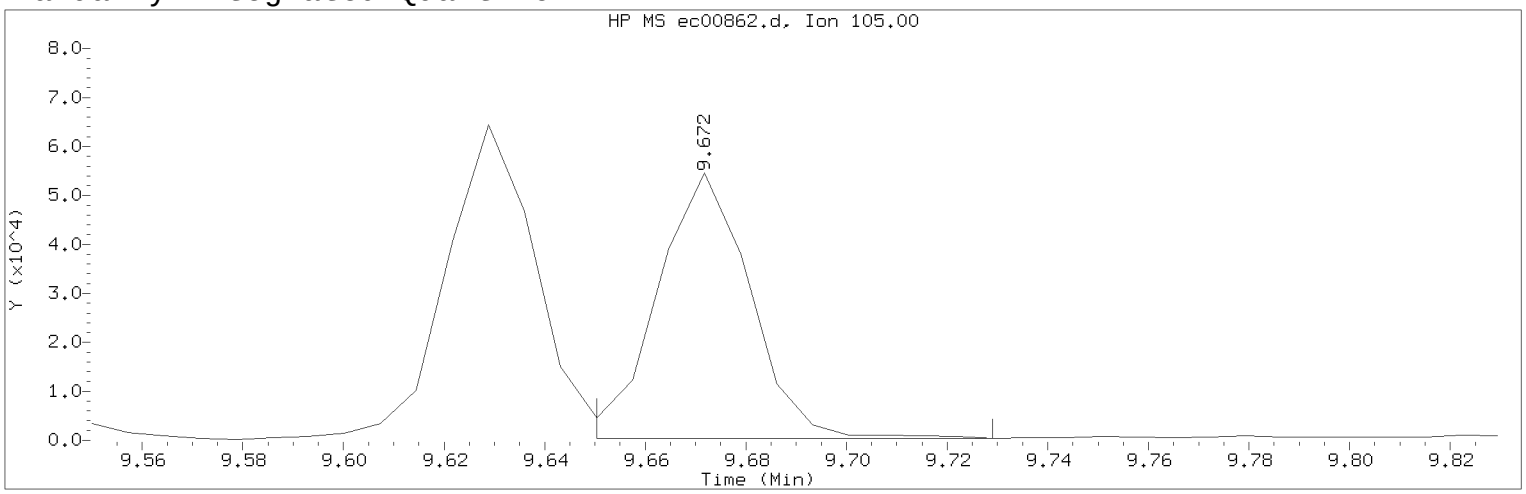
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 149012
Concentration (ppb(v)) : 0.5817
Integration start scan : 1324 Integration stop scan: 1345
Y at integration start : 184 Y at integration end: 184

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Target 3.5 esignature user ID: jbs1314

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

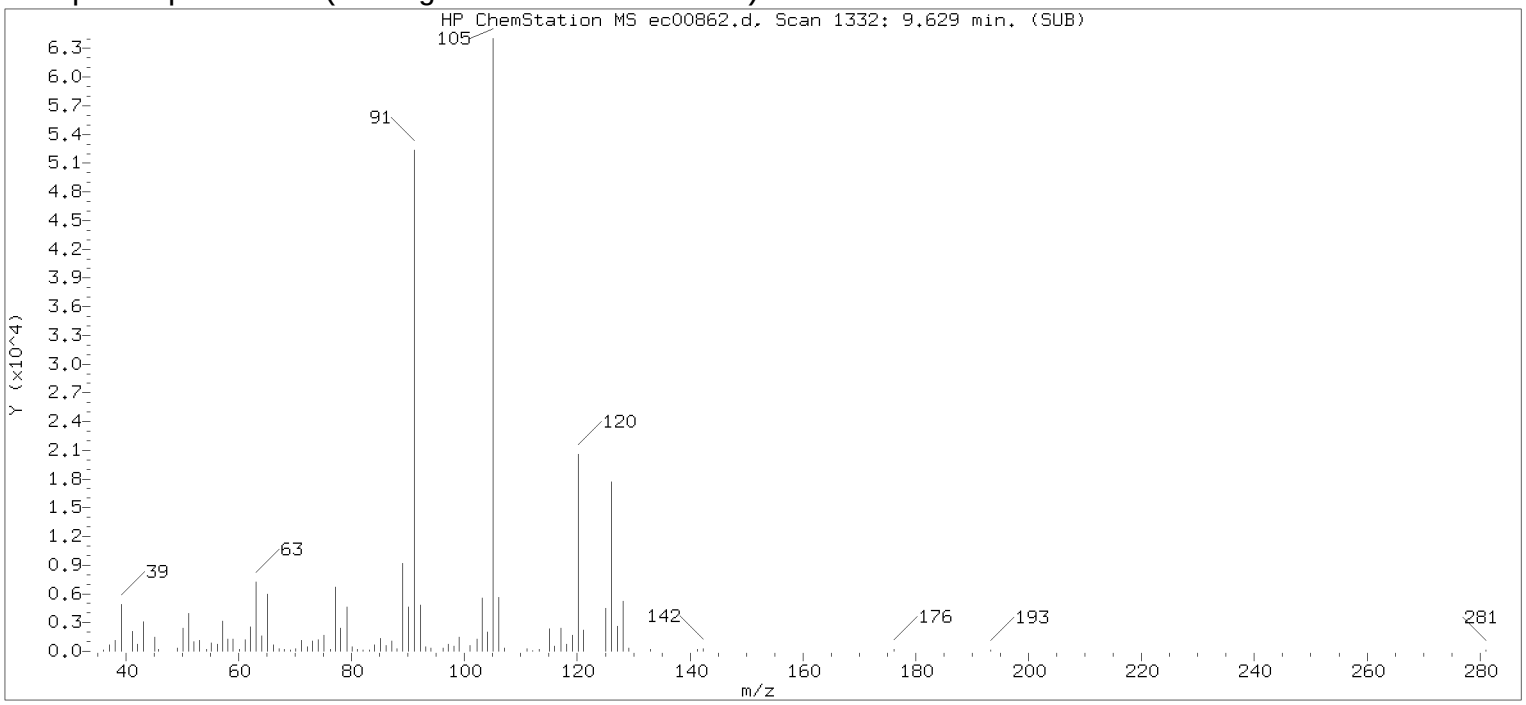
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 69730M
Concentration (ppb(v)) : 0.4406
Integration start scan : 1334 Integration stop scan: 1345
Y at integration start : 413 Y at integration end: 413

Reason for manual integration: improper integration

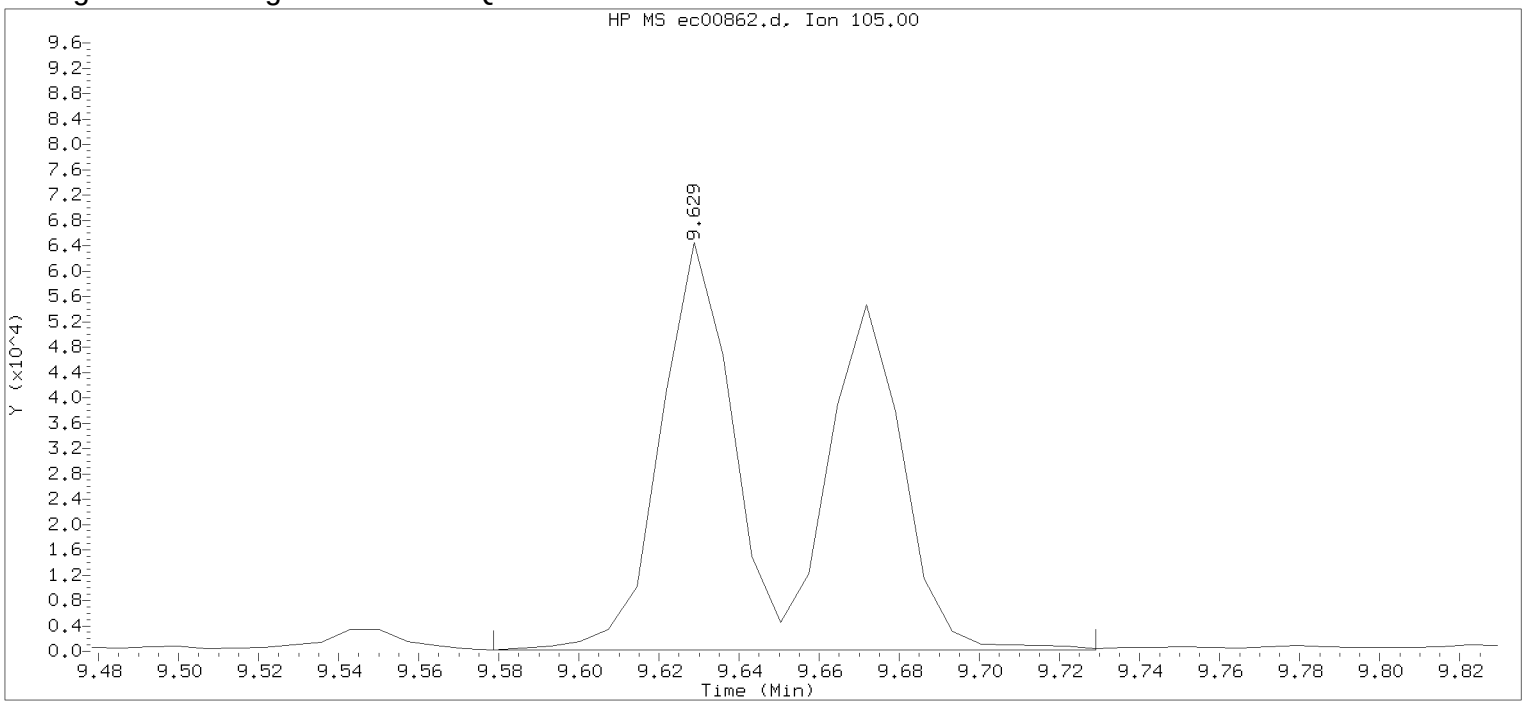
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



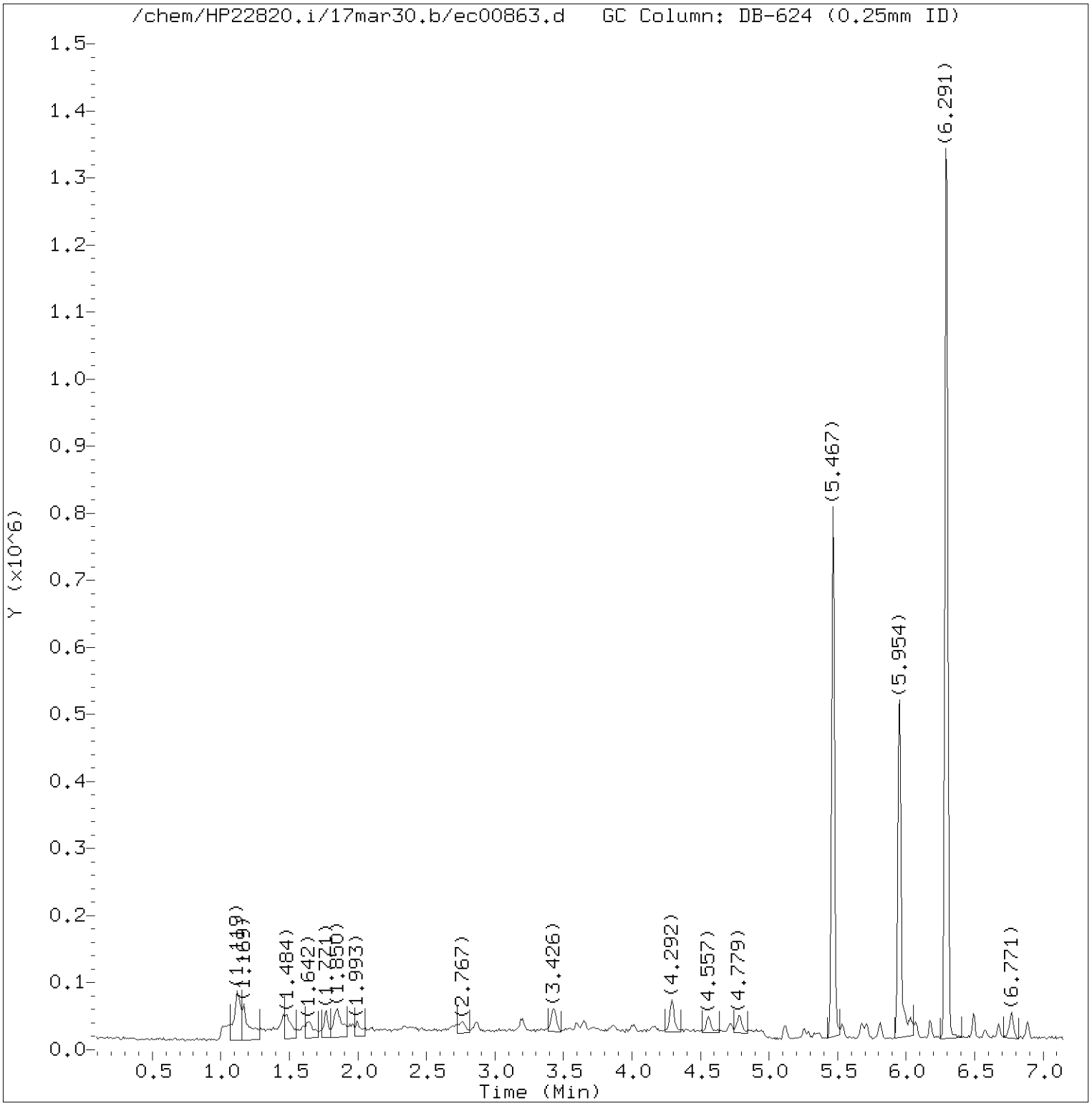
Data File: /chem/HP22820.i/17mar30.b/ec00862.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 03:59 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:18 Unknown

Sample Name: mdlv0.5 Lab Sample ID: mdlv0.5

Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 149012
Concentration (ppb(v)) : 0.7013
Integration start scan : 1324 Integration stop scan: 1345
Y at integration start : 184 Y at integration end: 184

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Target 3.5 esignature user ID: jbs1324



Total Ion Chromatogram (TIC)

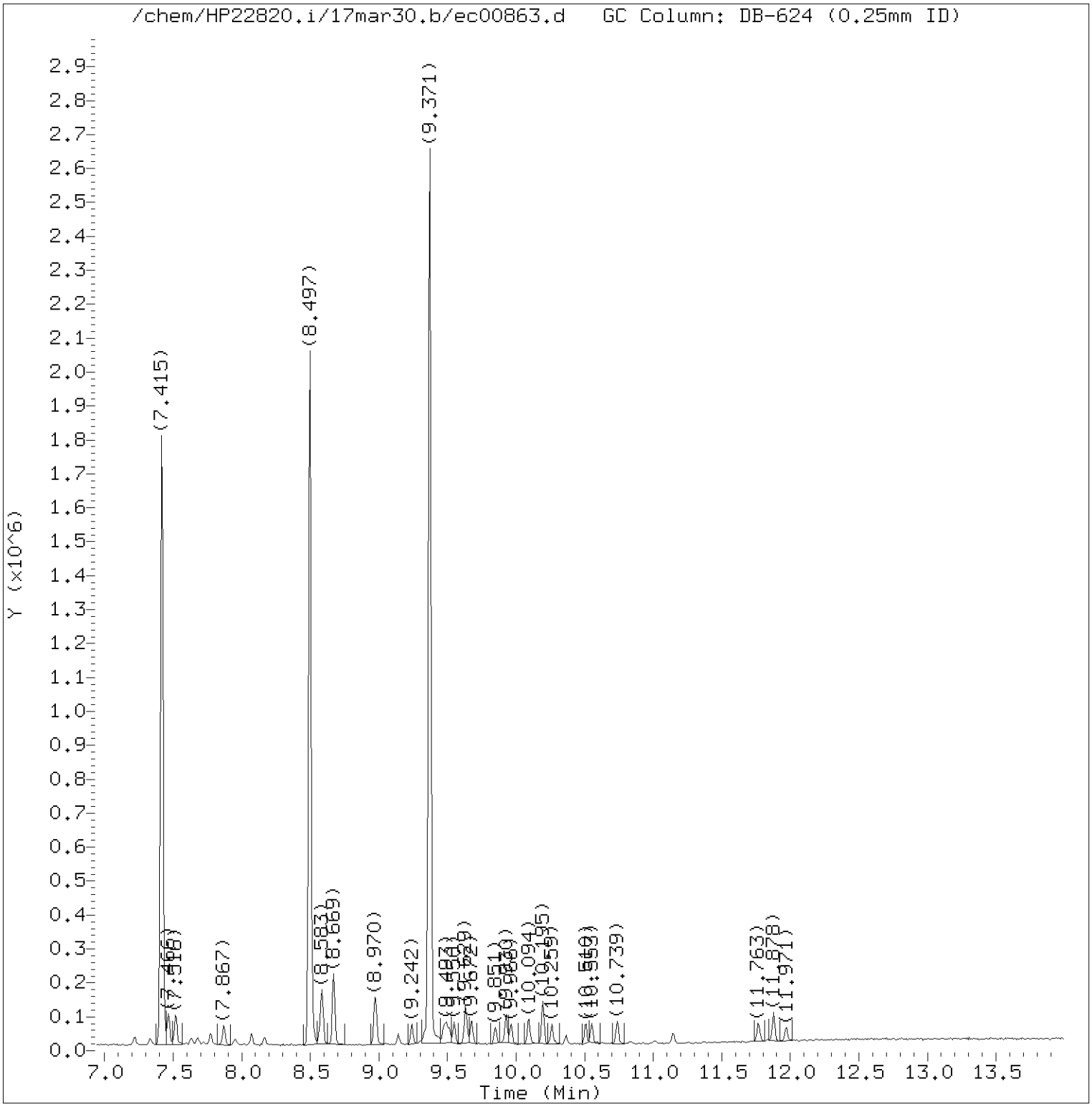
Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

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on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.599	41	3807M	0.235
2) Dichlorodifluoromethane	(1)	1.635	85	14325	0.220
3) Chlorodifluoromethane	(1)	1.649	51	7127	0.211
4) Freon 114	(1)	1.764	85	14445	0.212
5) Chloromethane	(1)	1.835	50	5179	0.297
6) Vinyl Chloride	(1)	1.957	62	4855	0.199
7) 1,3-Butadiene	(1)	1.993	54	4204	0.234
8) Bromomethane	(1)	2.337	94	7926	0.317
9) Chloroethane	(1)	2.459	64	2614M	0.192
10) Bromoethene	(1)	2.688	106	5862	0.215
11) Dichlorofluoromethane	(1)	2.724	67	10851	0.203
12) Trichlorofluoromethane	(1)	2.767	101	13208	0.189
13) Pentane	(1)	2.860	43	10793	0.295
15) Freon123a	(1)	3.196	67	12769	0.247
16) Acrolein	(1)	3.340	56	3831	0.407
17) 1,1-Dichloroethene	(1)	3.426	61	7500	0.198
18) Freon 113	(1)	3.440	103	9149	0.222
19) Acetone	(1)	3.540	43	9092	0.310
20) Methyl Iodide	(1)	3.598	142	18063	0.235
21) Carbon Disulfide	(1)	3.655	76	15157	0.202
22) Isopropanol	(1)	3.719	45	11222	0.431
23) Acetonitrile	(1)	3.834	40	15581	1.147
24) 3-Chloropropene	(1)	3.855	76	2669M	0.236
25) Methylene Chloride	(1)	4.013	84	5057	0.227
26) tert-Butyl Alcohol	(1)	4.149	59	9954	0.232
28) trans-1,2-Dichloroethene	(1)	4.292	61	7152	0.204
29) Methyl t-Butyl Ether	(1)	4.292	73	31661	0.416
27) Acrylonitrile	(1)	4.300	53	5860	0.300
30) Hexane	(1)	4.557	57	14377	0.379
31) 1,1-Dichloroethane	(1)	4.715	63	10160	0.220
32) Vinyl Acetate	(1)	4.758	86	1630	0.261
33) Di-Isopropyl Ether	(1)	4.787	45	17266	0.235
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	16186	0.210
35) cis-1,2-Dichloroethene	(1)	5.259	61	7444	0.223
37) 2-Butanone	(1)	5.288	72	2840M	0.212
38) Ethyl Acetate	(1)	5.331	70	1773M	0.246
39) Methyl Acrylate	(1)	5.367	55	9694	0.239
40)*Bromochloromethane	(1)	5.467	130	258082	10.000

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
41) Tetrahydrofuran	(1)	5.503	42	5907	0.244
42) Chloroform	(1)	5.532	83	12707	0.219
43) 1,1,1-Trichloroethane	(1)	5.675	97	13176	0.224
44) Cyclohexane	(1)	5.711	56	10424	0.262
45) Carbon Tetrachloride	(1)	5.811	117	12614	0.207
46) Benzene	(2)	5.983	78	30214	0.334
47) 1,2-Dichloroethane	(2)	6.012	62	8250M	0.242
48) Isooctane	(2)	6.033	57	27929	0.224
49) Tert-Amyl Methyl Ether	(2)	6.076	73	18267	0.222
50) Heptane	(2)	6.176	43	12586	0.305
51)*1,4-Difluorobenzene	(2)	6.291	114	975943	10.000
52) Trichloroethene	(2)	6.499	130	10133	0.217
53) Ethyl Acrylate	(2)	6.577	55	10739	0.204
36) 1,2-Dichloroethene (total)	(1)		61	14596	0.427
54) 1,2-Dichloropropane	(2)	6.678	63	7598	0.245
57) Methyl Methacrylate	(2)	6.749	69	7954	0.263
55) Dibromomethane	(2)	6.771	174	9204	0.200
56) 1,4-Dioxane	(2)	6.778	88	3760	0.173
58) Bromodichloromethane	(2)	6.885	83	13084	0.222
59) cis-1,3-Dichloropropene	(2)	7.222	75	11419	0.218
60) 4-Methyl-2-Pentanone	(2)	7.330	43	12376	0.235
61) Toluene	(3)	7.466	91	51282	0.433
62) Octane	(3)	7.516	43	26126	0.449
63) trans-1,3-Dichloropropene	(3)	7.638	75	8668	0.190
65) Ethyl Methacrylate	(3)	7.681	69	11436	0.233
66) 1,1,2-Trichloroethane	(3)	7.774	97	9391	0.237
67) Tetrachloroethene	(3)	7.867	166	15257	0.219
68) 2-Hexanone	(3)	7.946	43	12264	0.246
69) Dibromochloromethane	(3)	8.074	127	11347	0.220
70) 1,2-Dibromoethane	(3)	8.168	107	13047	0.210
71)*Chlorobenzene-d5	(3)	8.497	117	981598	10.000
72) Chlorobenzene	(3)	8.519	112	21344	0.210
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	10268	0.201
74) Ethylbenzene	(3)	8.583	91	80025	0.527
75) m/p-Xylene	(3)	8.669	91	100864	0.841
76) o-Xylene	(3)	8.970	91	64247	0.553
78) Styrene	(3)	8.984	104	18753	0.213
79) Bromoform	(3)	9.142	173	11834	0.182

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

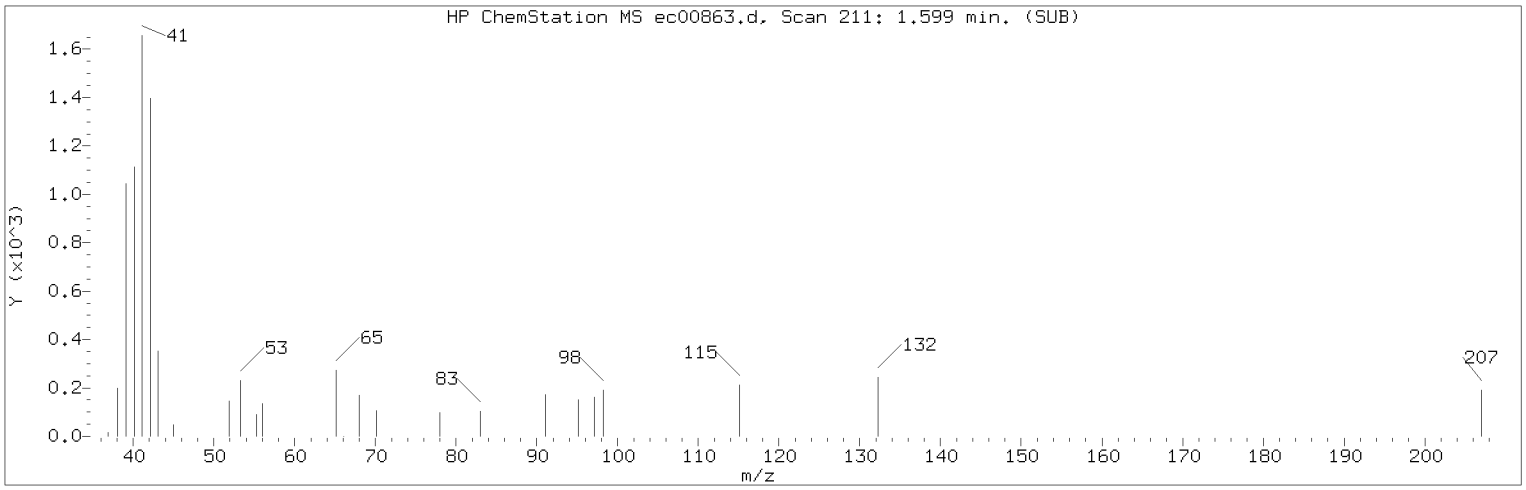
Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
80) Cumene	(3)	9.242	105	36156	0.221
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	17783	0.232
81) Bromobenzene	(3)	9.493	156	13195M	0.211
83) 1,2,3-Trichloropropane	(3)	9.514	110	6049	0.236
84) n-Propylbenzene	(3)	9.550	120	10255	0.205
86) 4-Ethyltoluene	(3)	9.629	105	35404M	0.219
85) 2-Chlorotoluene	(3)	9.629	126	9137	0.203
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	29234M	0.218
88) Alpha Methyl Styrene	(3)	9.851	118	12269	0.192
89) tert-Butylbenzene	(3)	9.930	119	45384	0.343
90) 1,2,4-Trimethylbenzene	(3)	9.966	105	26948	0.212
91) sec-Butylbenzene	(3)	10.094	105	41426	0.223
92) 1,3-Dichlorobenzene	(3)	10.195	146	22740	0.237
94) p-Isopropyltoluene	(3)	10.195	119	33056	0.209
93) 1,4-Dichlorobenzene	(3)	10.259	146	23139	0.237
95) Benzyl Chloride	(3)	10.367	91	19604	0.234
97) n-Butylbenzene	(3)	10.510	91	28994	0.221
96) 1,2-Dichlorobenzene	(3)	10.553	146	20498	0.236
98) Hexachloroethane	(3)	10.739	117	7988	0.217
99) 1,2-Dibromo-3-chloropropane	(3)	11.147	157	8477	0.250
100) 1,2,4-Trichlorobenzene	(3)	11.763	180	16162	0.311
101) Hexachlorobutadiene	(3)	11.878	225	14956	0.320
102) Naphthalene	(3)	11.971	128	32810	0.348
64) 1,3-Dichloropropene (total)	(3)		75	20087	0.407
77) Xylene (total)	(3)		91	165111	1.394

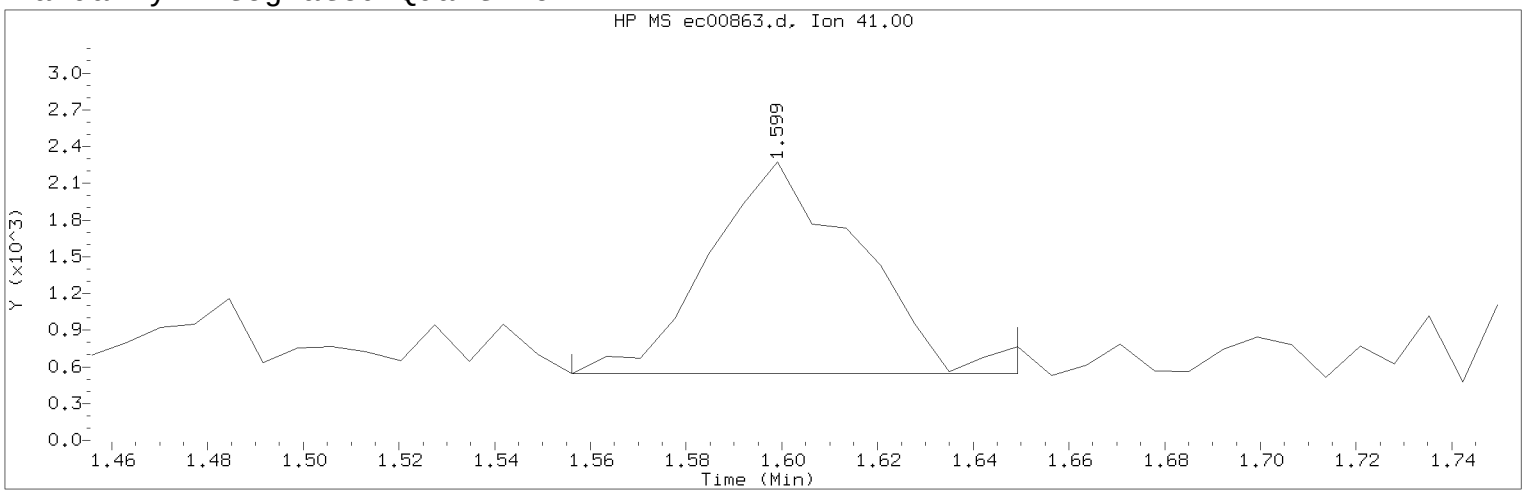
M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

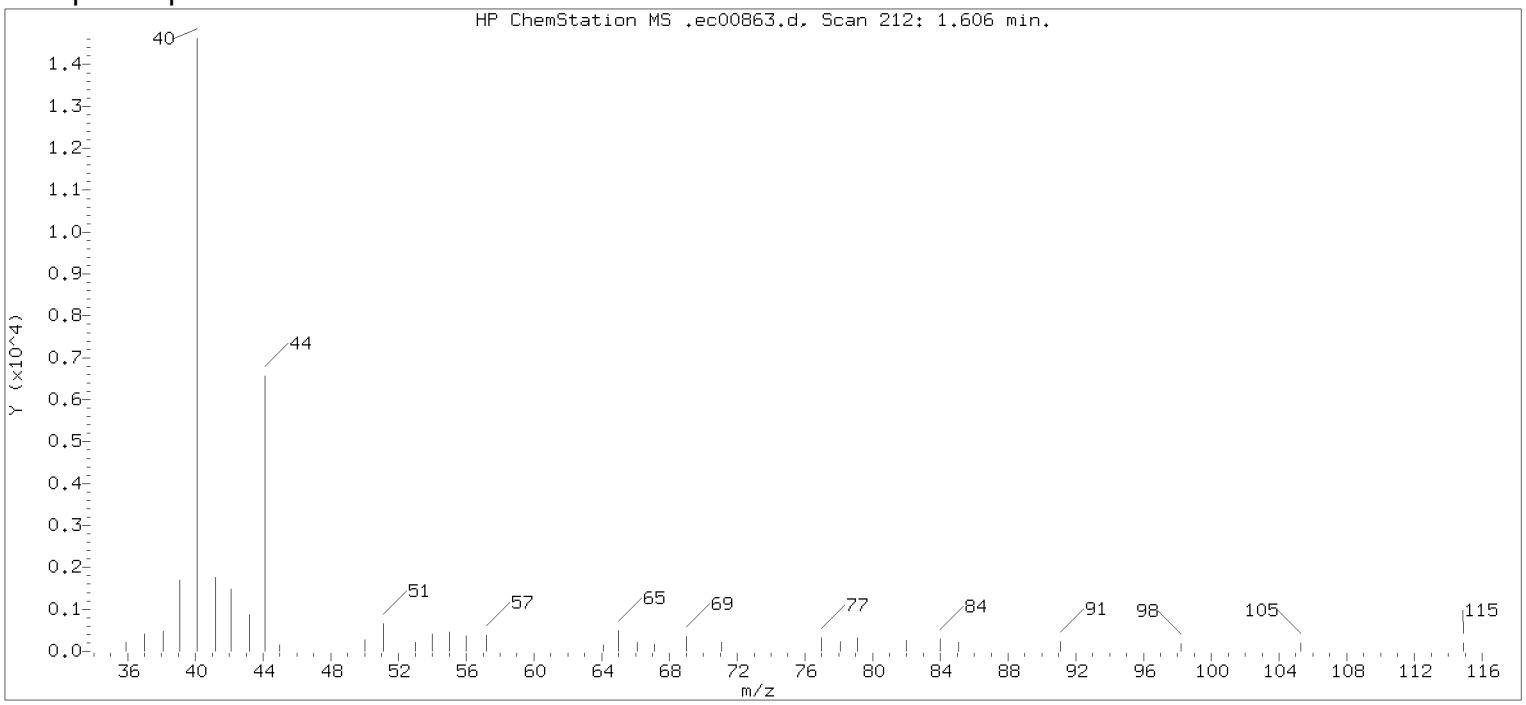
Compound Number : 1
Compound Name : Propene
Scan Number : 211
Retention Time (minutes): 1.599
Quant Ion : 41.00
Area (flag) : 3807M
Concentration (ppb(v)) : 0.2350
Integration start scan : 204 Integration stop scan: 217
Y at integration start : 547 Y at integration end: 547

Reason for manual integration: missed peak

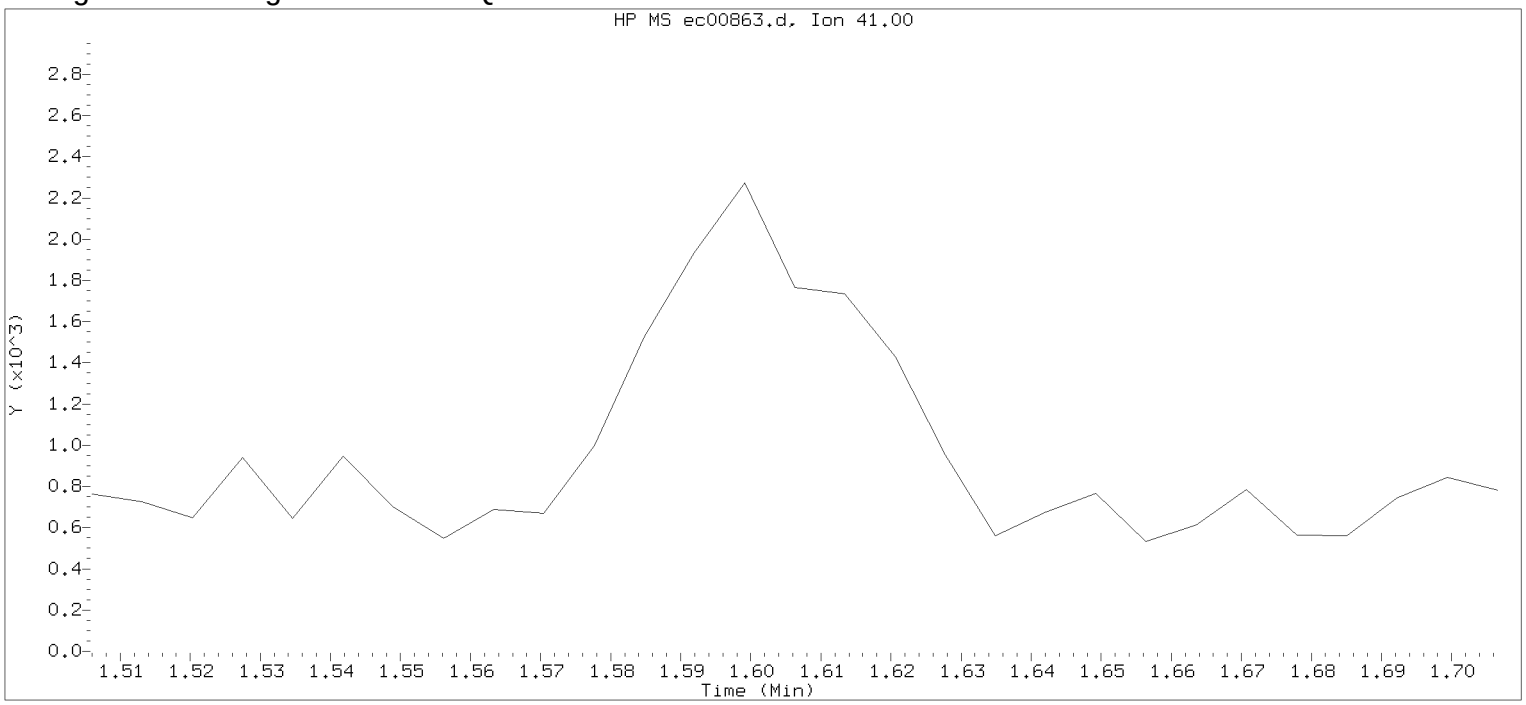
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

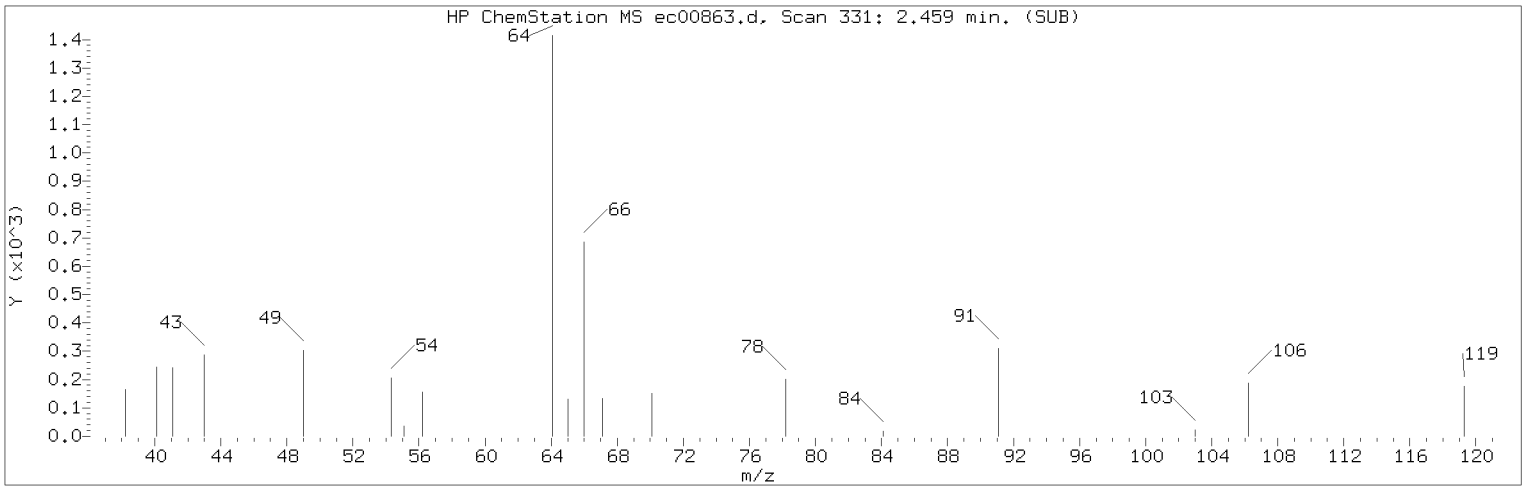
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

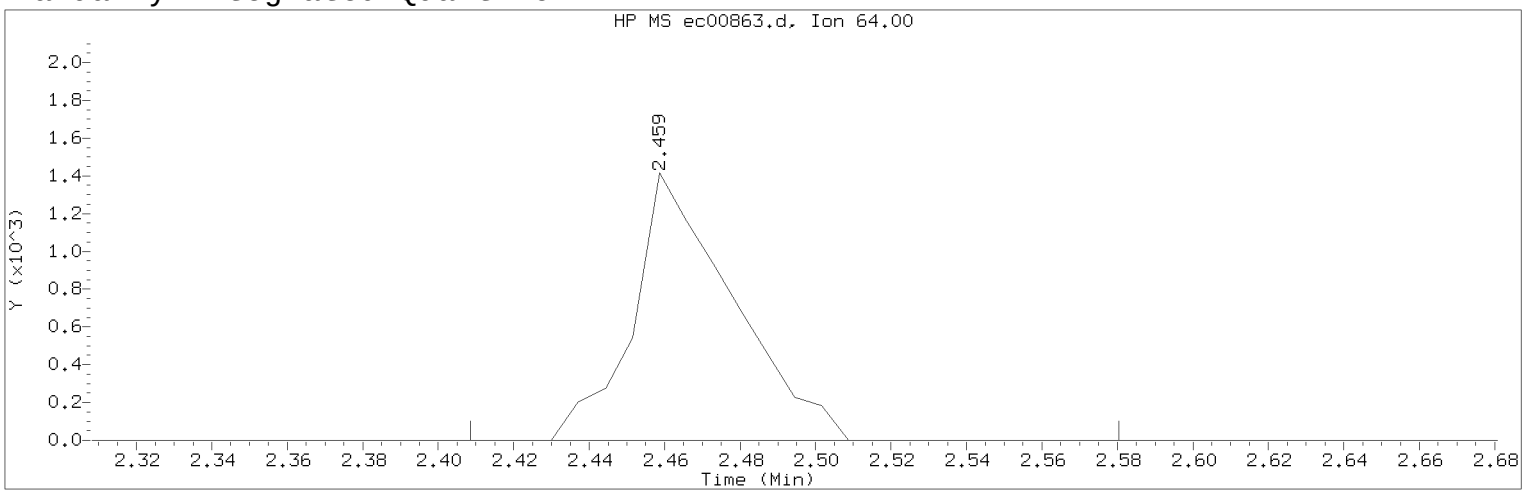
Compound Number : 1
Compound Name : Propene
Expected RT (minutes) : 1.606
Quant Ion : 41.00

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

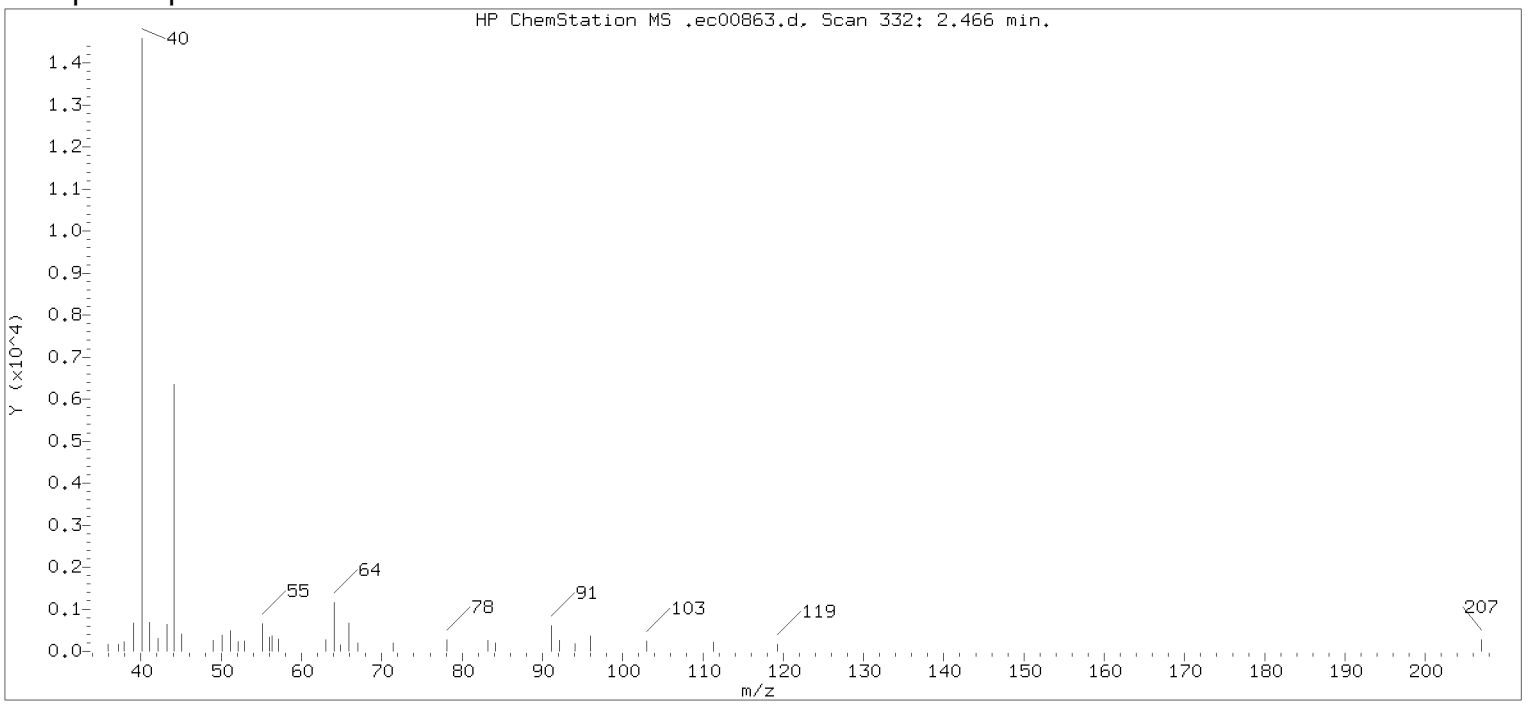
Compound Number : 9
Compound Name : Chloroethane
Scan Number : 331
Retention Time (minutes): 2.459
Quant Ion : 64.00
Area (flag) : 2614M
Concentration (ppb(v)) : 0.1919
Integration start scan : 323 Integration stop scan: 347
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

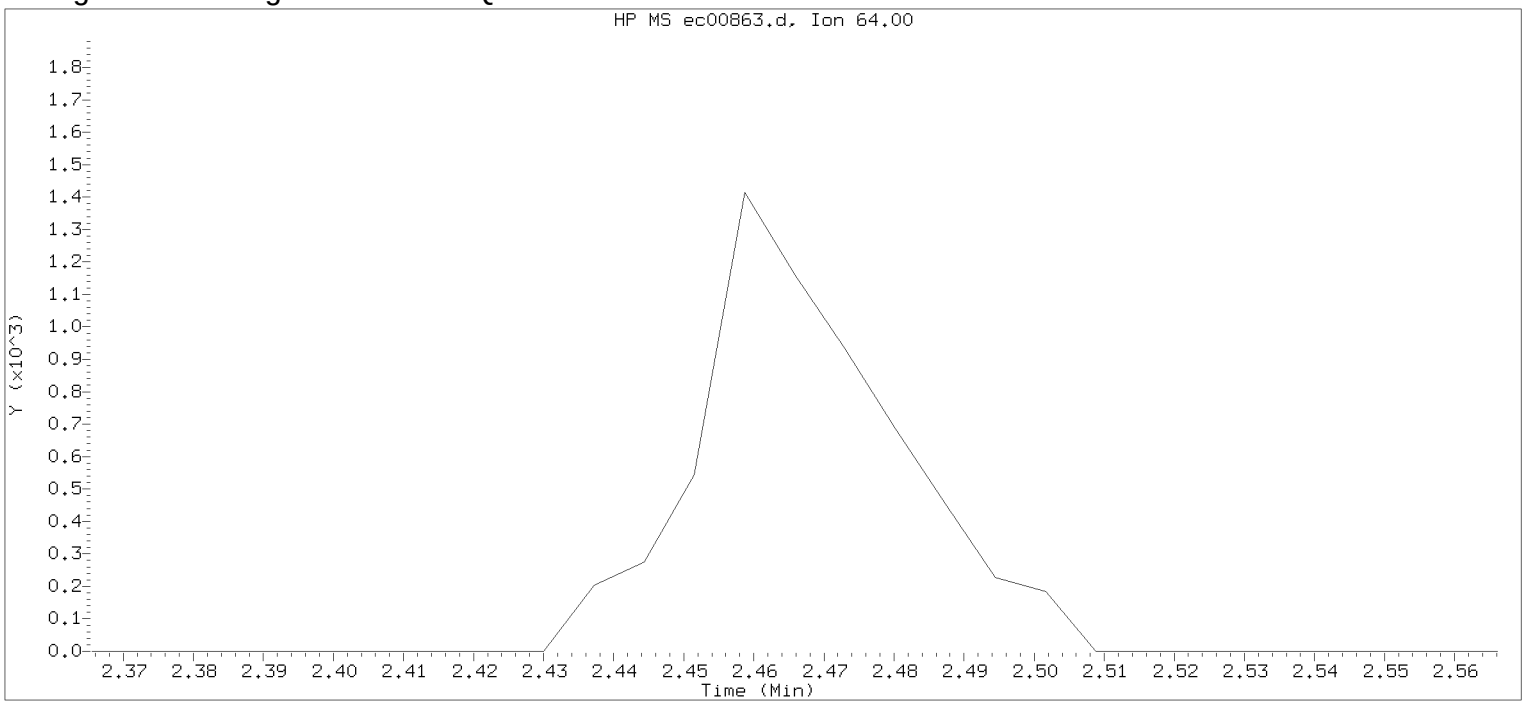
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

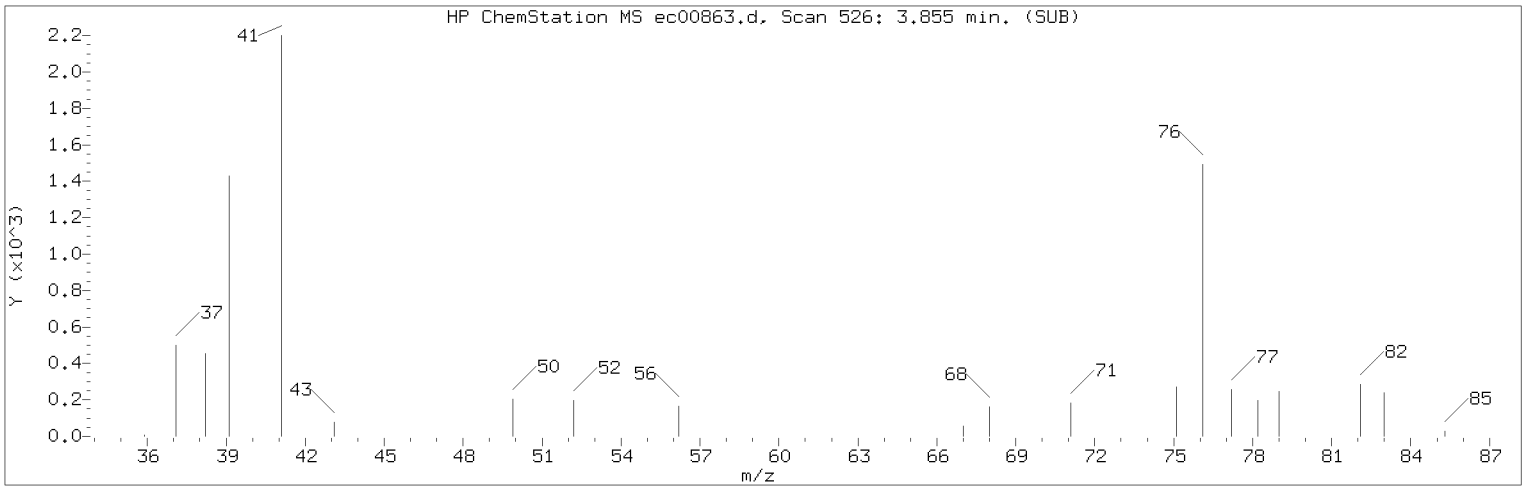
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

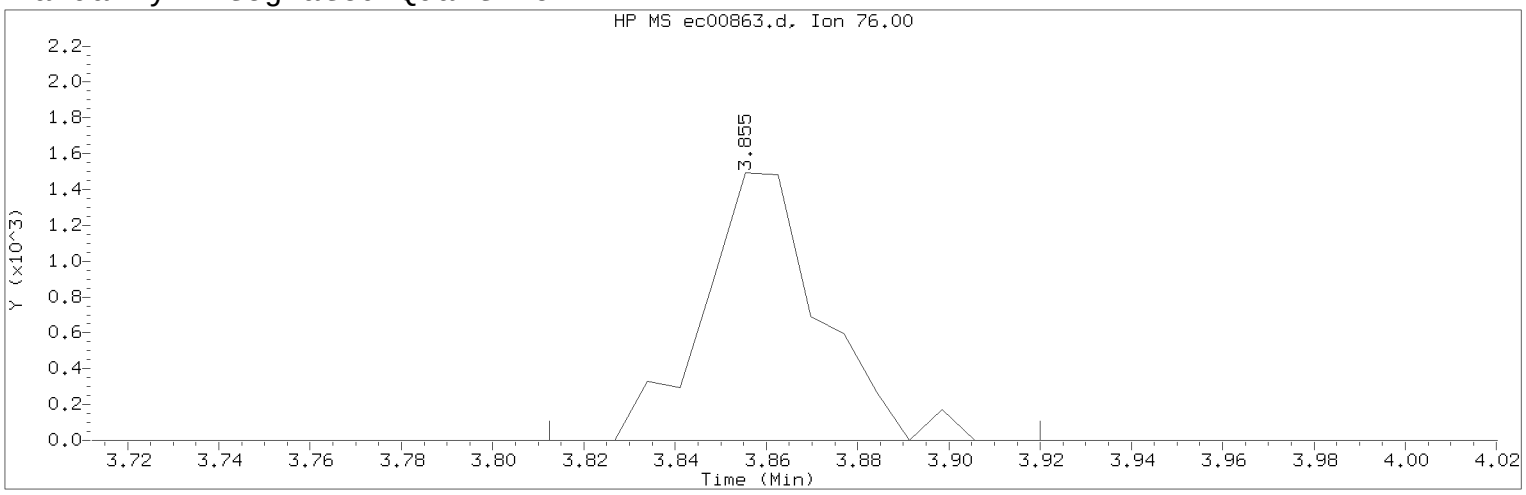
Compound Number : 9
Compound Name : Chloroethane
Expected RT (minutes) : 2.466
Quant Ion : 64.00

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

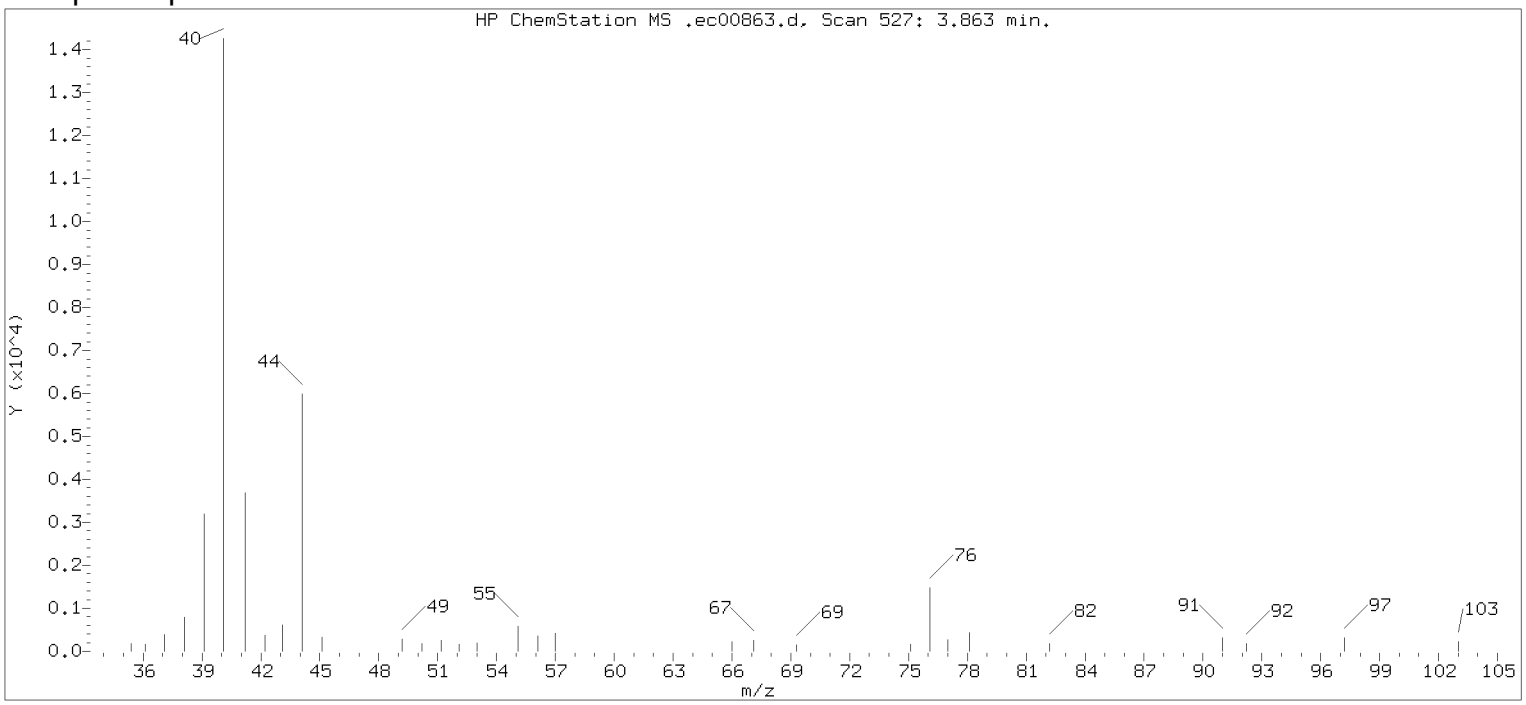
Compound Number : 24
Compound Name : 3-Chloropropene
Scan Number : 526
Retention Time (minutes): 3.855
Quant Ion : 76.00
Area (flag) : 2669M
Concentration (ppb(v)) : 0.2355
Integration start scan : 519 Integration stop scan: 534
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

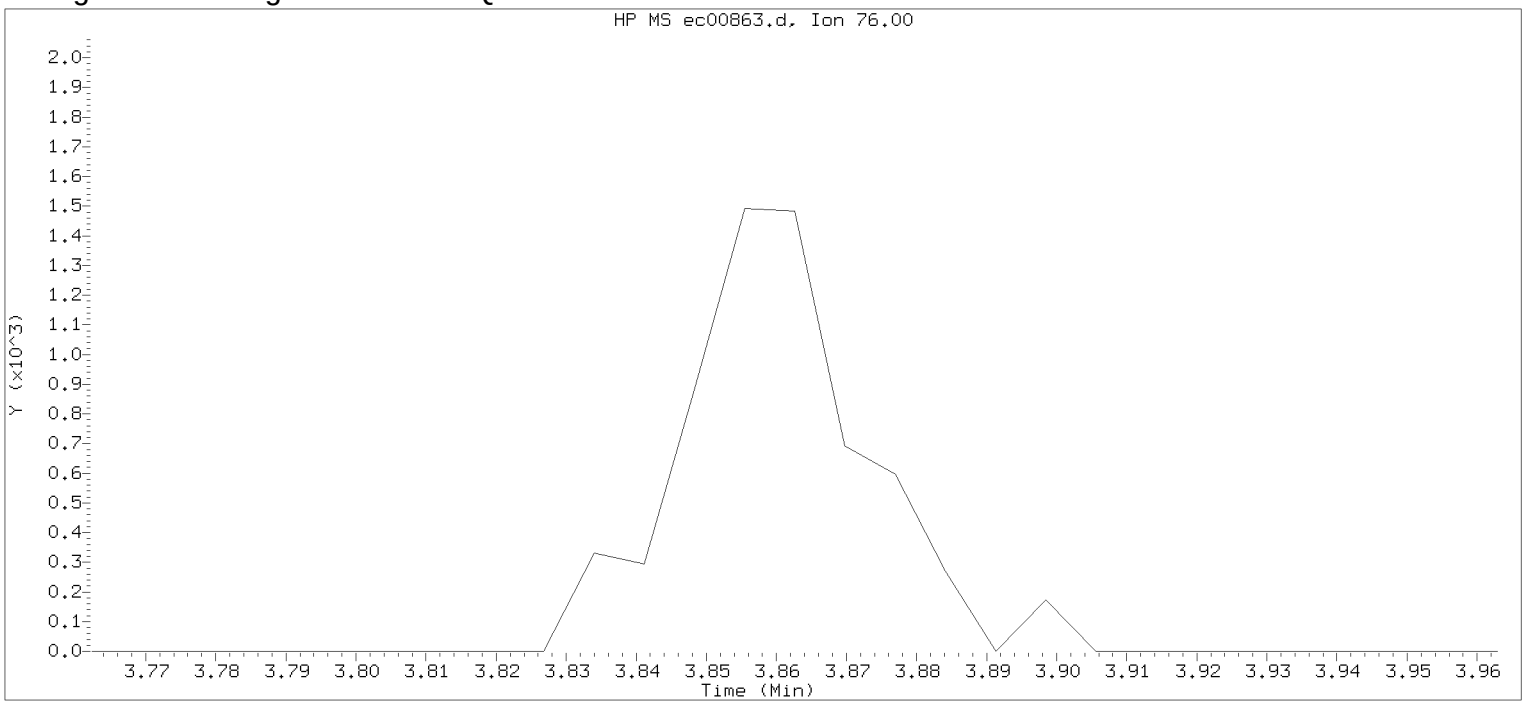
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

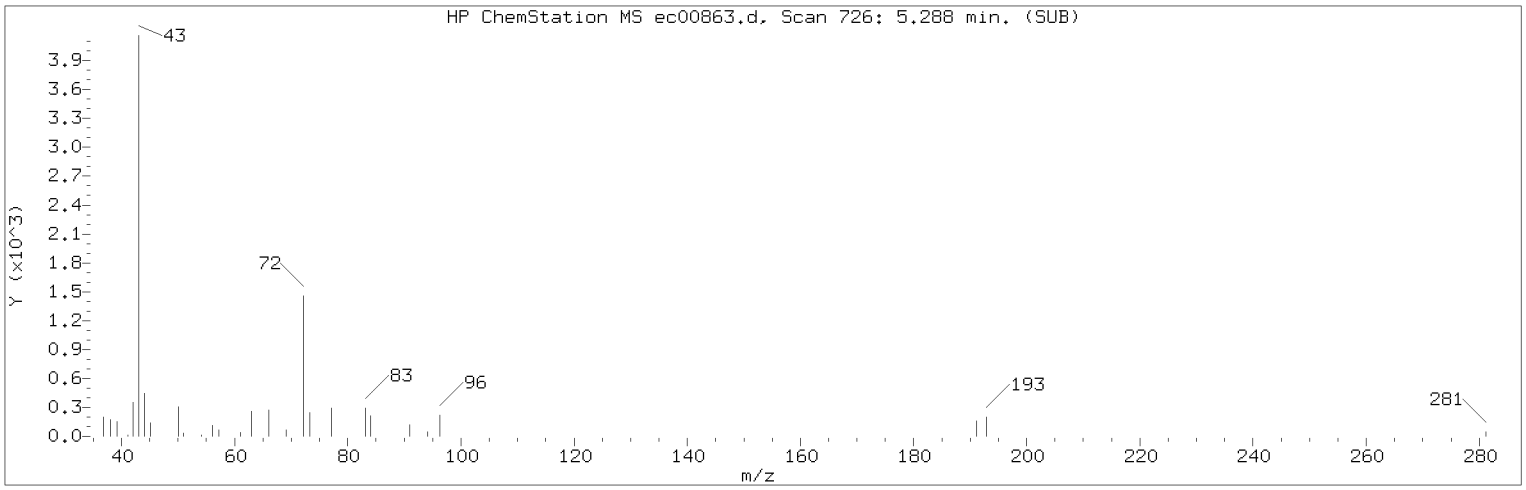
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

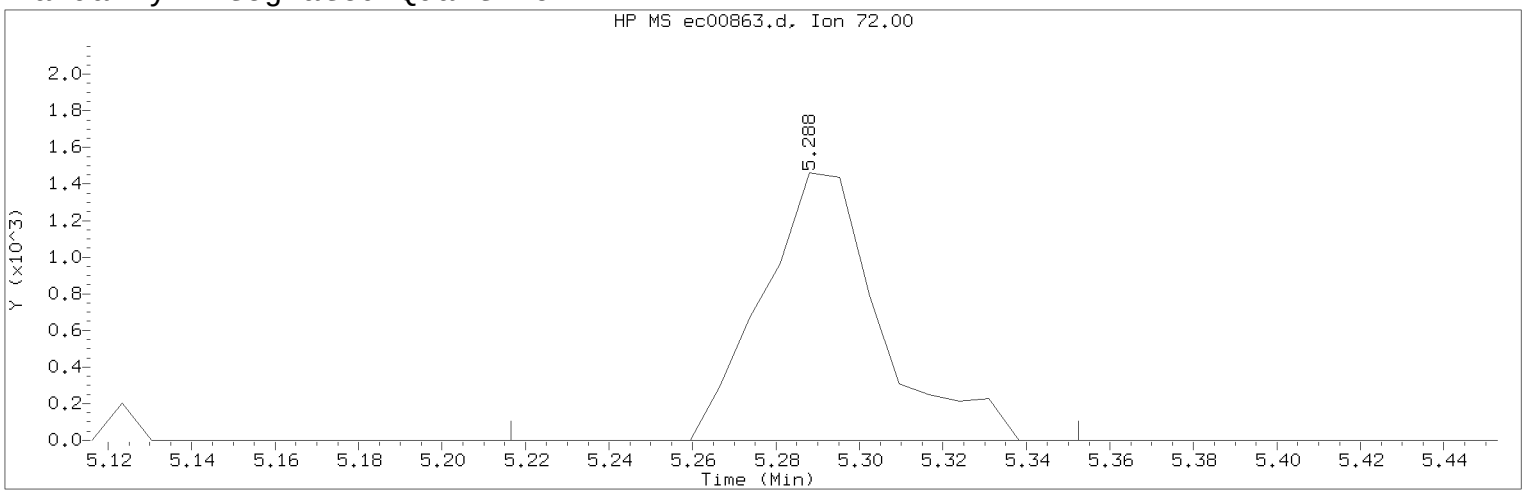
Compound Number : 24
Compound Name : 3-Chloropropene
Expected RT (minutes) : 3.862
Quant Ion : 76.00

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

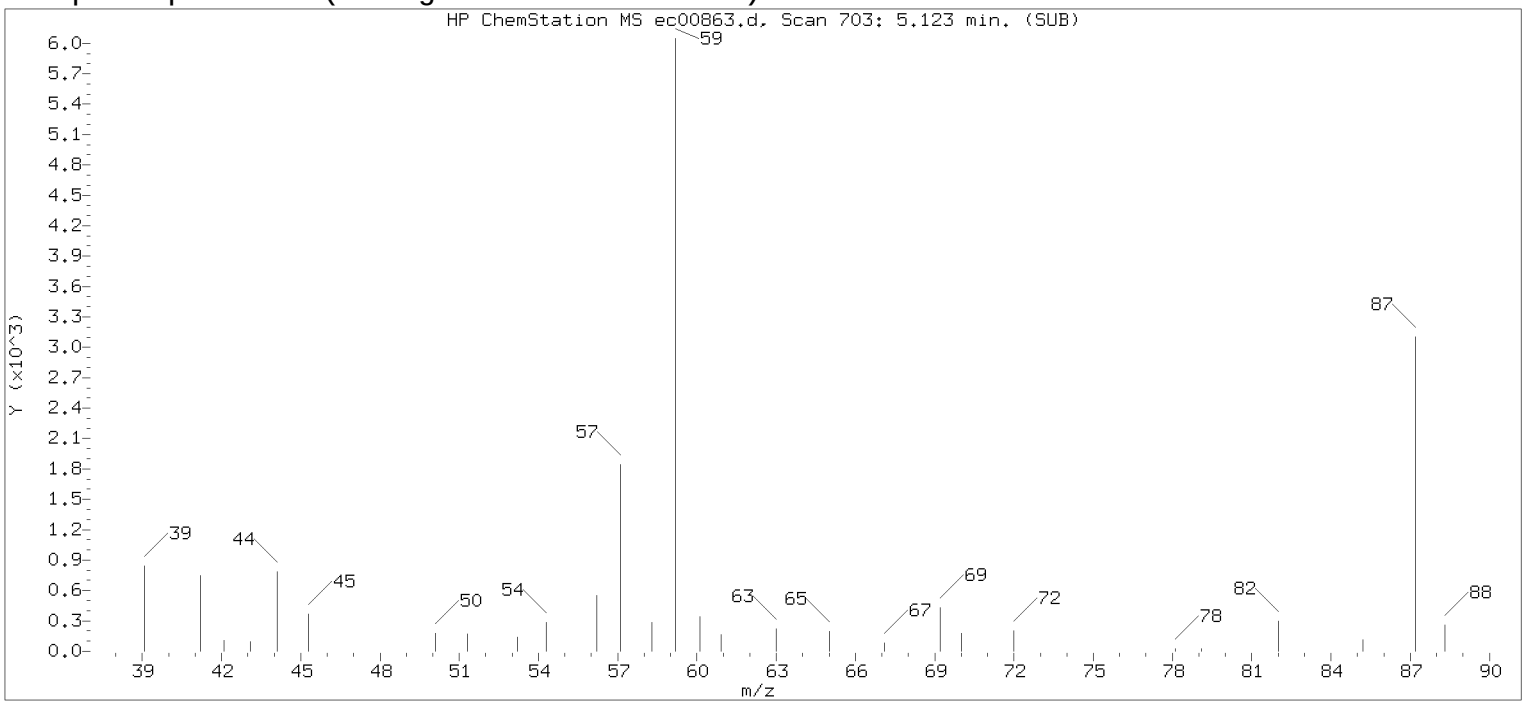
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 726
Retention Time (minutes): 5.288
Quant Ion : 72.00
Area (flag) : 2840M
Concentration (ppb(v)) : 0.2117
Integration start scan : 715 Integration stop scan: 734
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

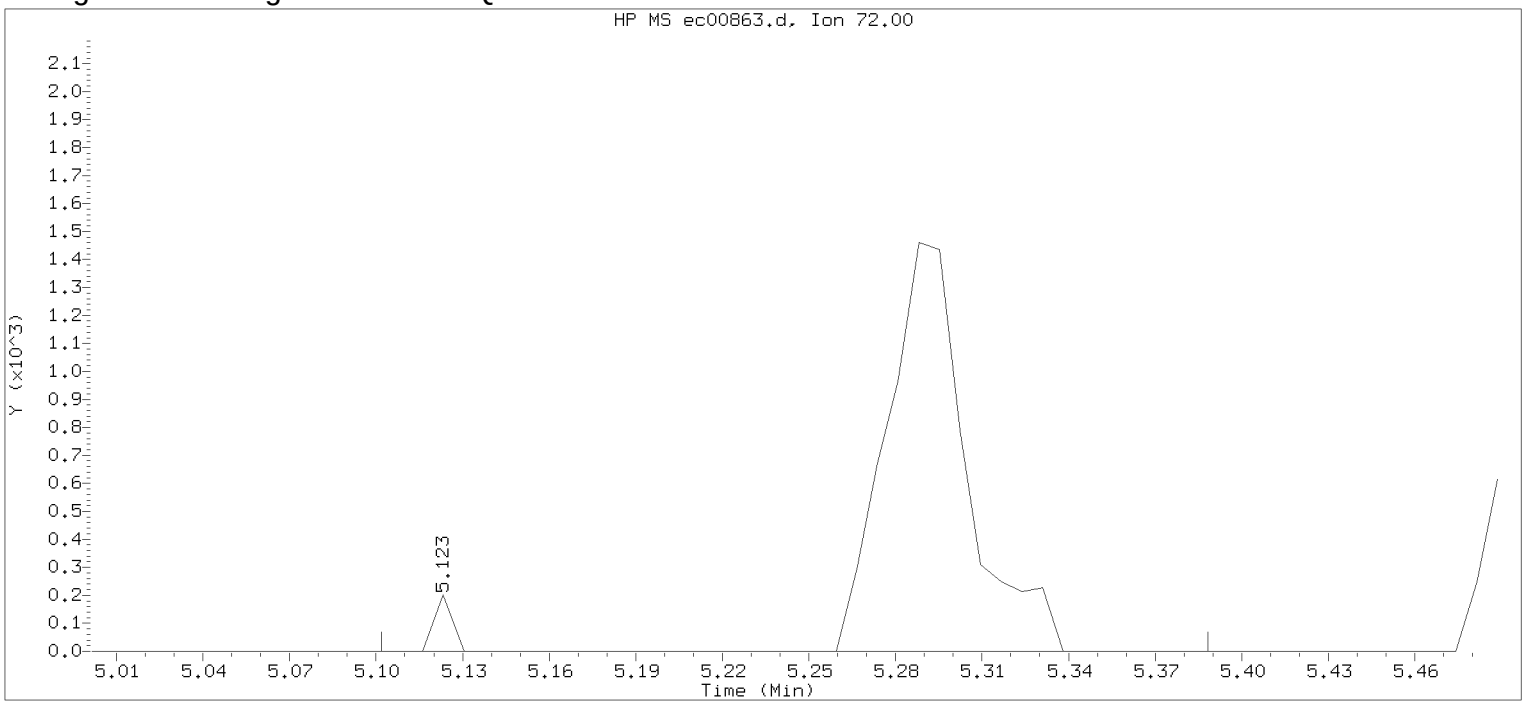
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

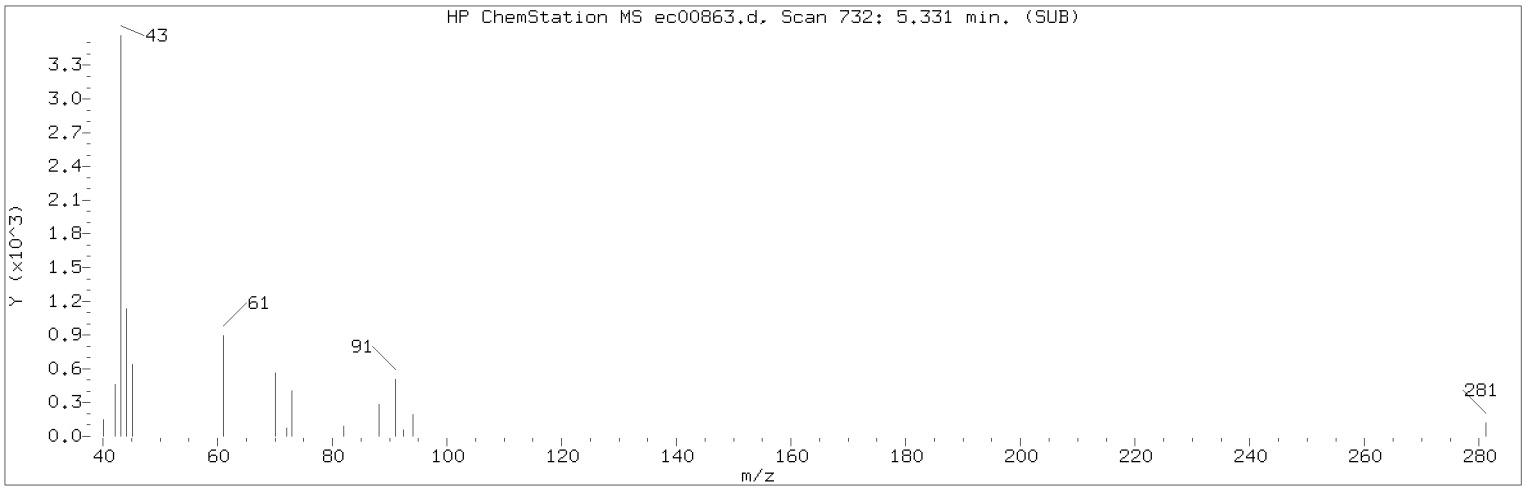
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

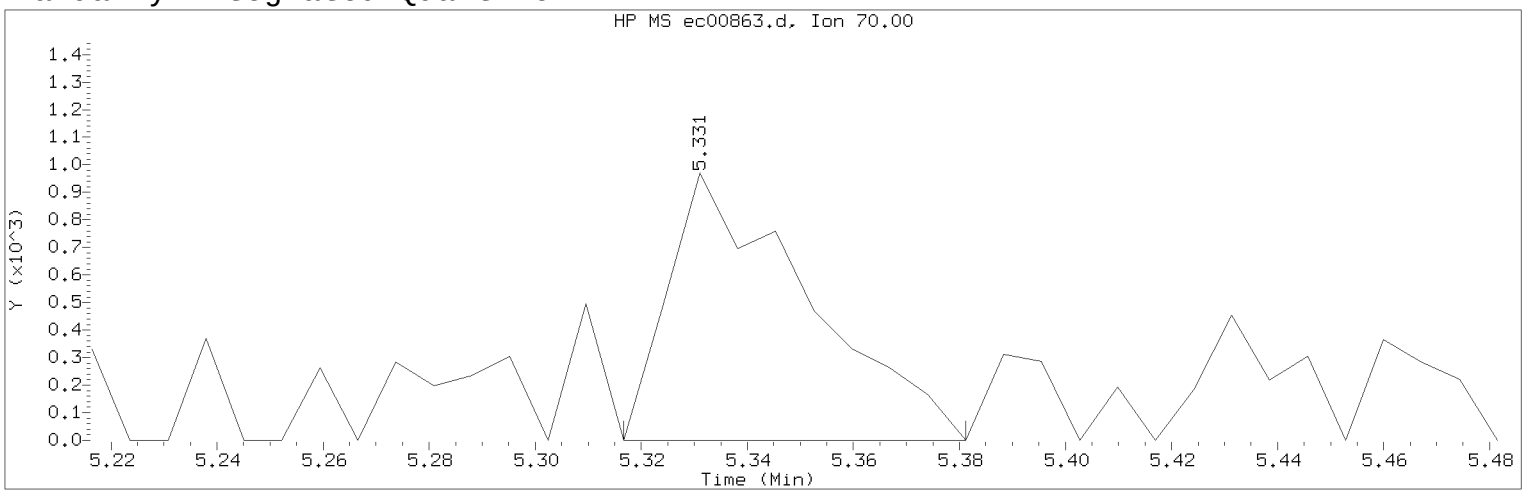
Compound Number : 37
Compound Name : 2-Butanone
Scan Number : 703
Retention Time (minutes): 5.123
Quant Ion : 72.00
Area : 2927
Concentration (ppb(v)) : 0.1644
Integration start scan : 699 Integration stop scan: 739
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

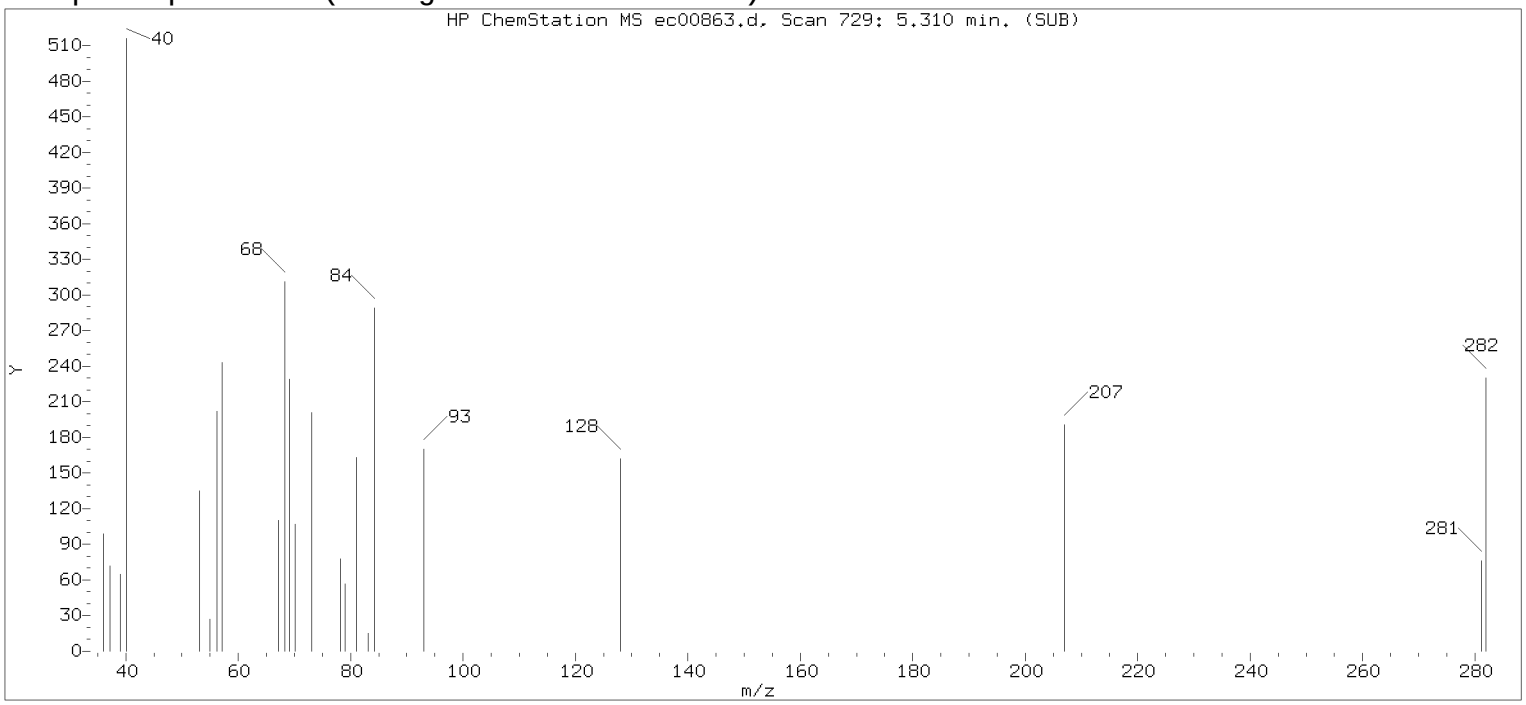
Compound Number : 38
Compound Name : Ethyl Acetate
Scan Number : 732
Retention Time (minutes): 5.331
Quant Ion : 70.00
Area (flag) : 1773M
Concentration (ppb(v)) : 0.2461
Integration start scan : 729 Integration stop scan: 738
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

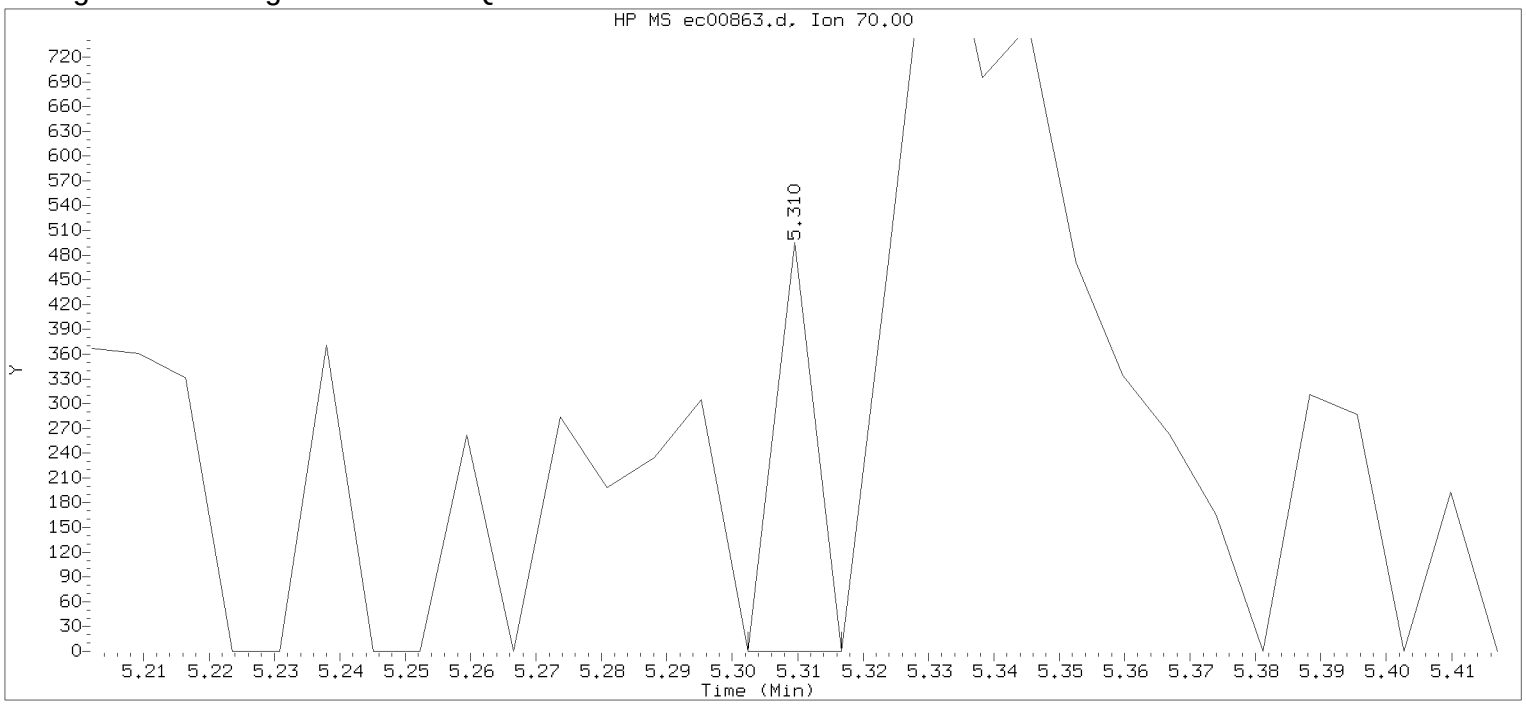
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

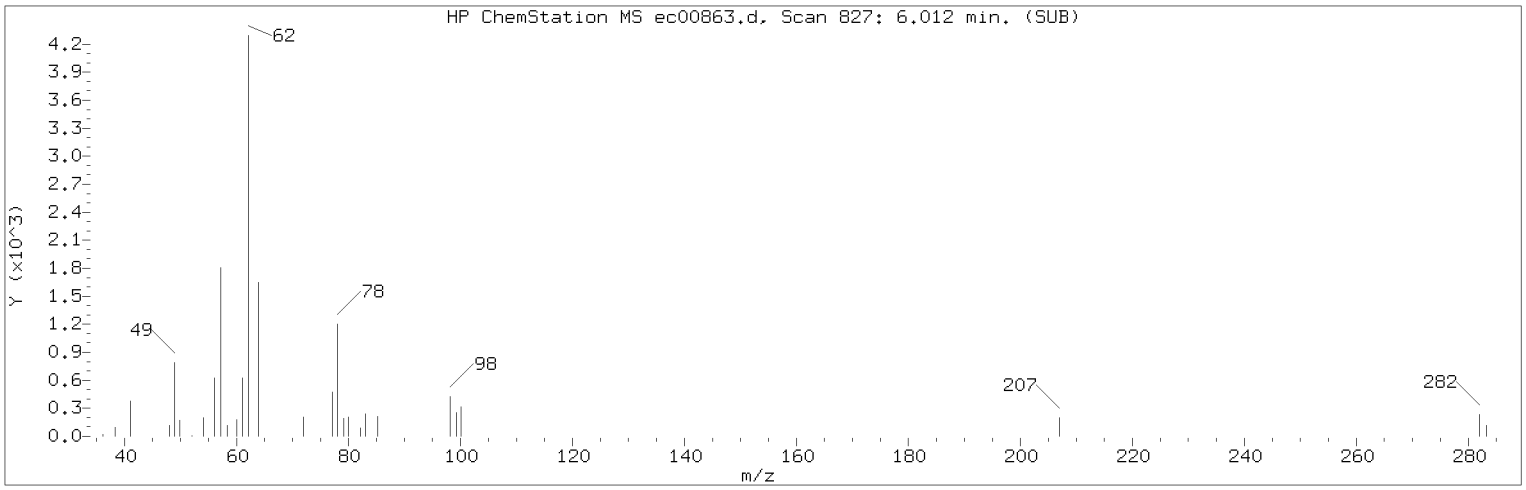
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

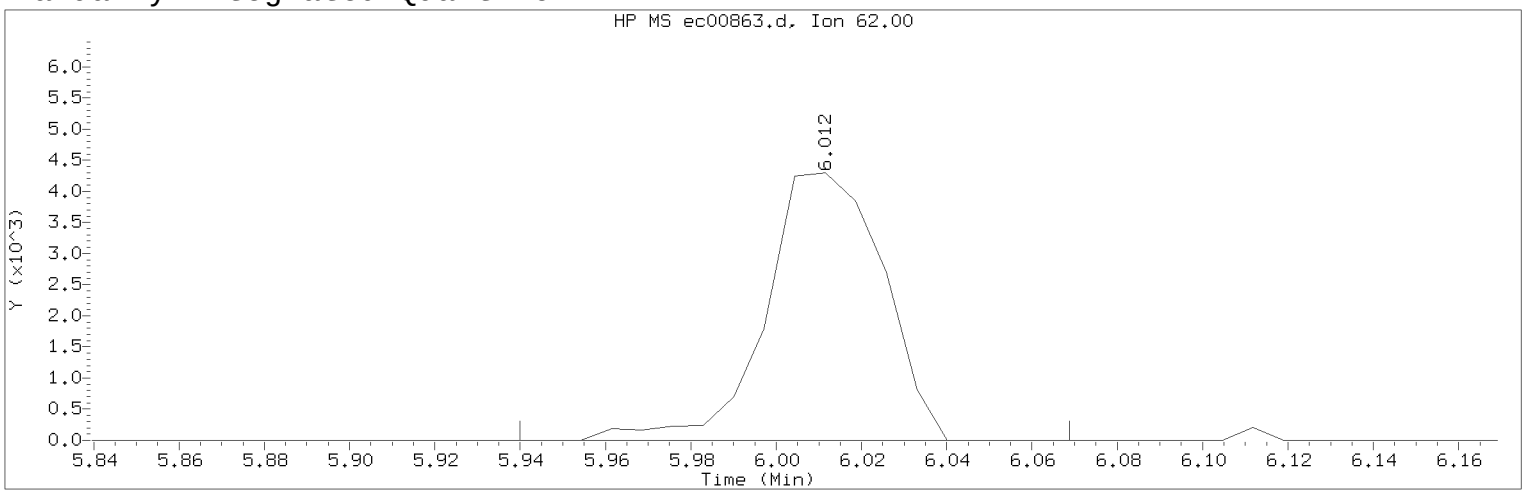
Compound Number : 38
Compound Name : Ethyl Acetate
Scan Number : 729
Retention Time (minutes): 5.310
Quant Ion : 70.00
Area : 212
Concentration (ppb(v)) : 0.0241
Integration start scan : 727 Integration stop scan: 729
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs1334

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

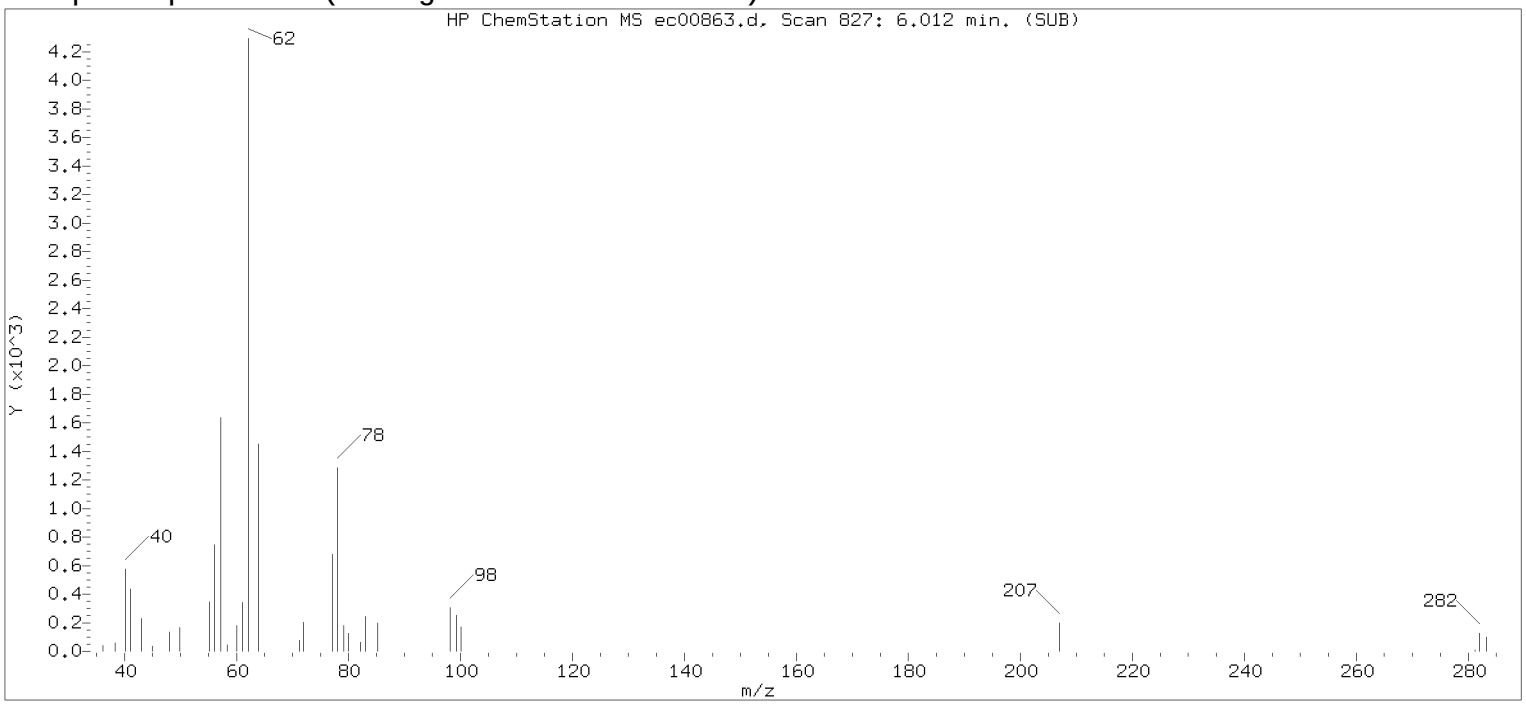
Compound Number : 47
Compound Name : 1,2-Dichloroethane
Scan Number : 827
Retention Time (minutes): 6.012
Quant Ion : 62.00
Area (flag) : 8250M
Concentration (ppb(v)) : 0.2419
Integration start scan : 816 Integration stop scan: 834
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

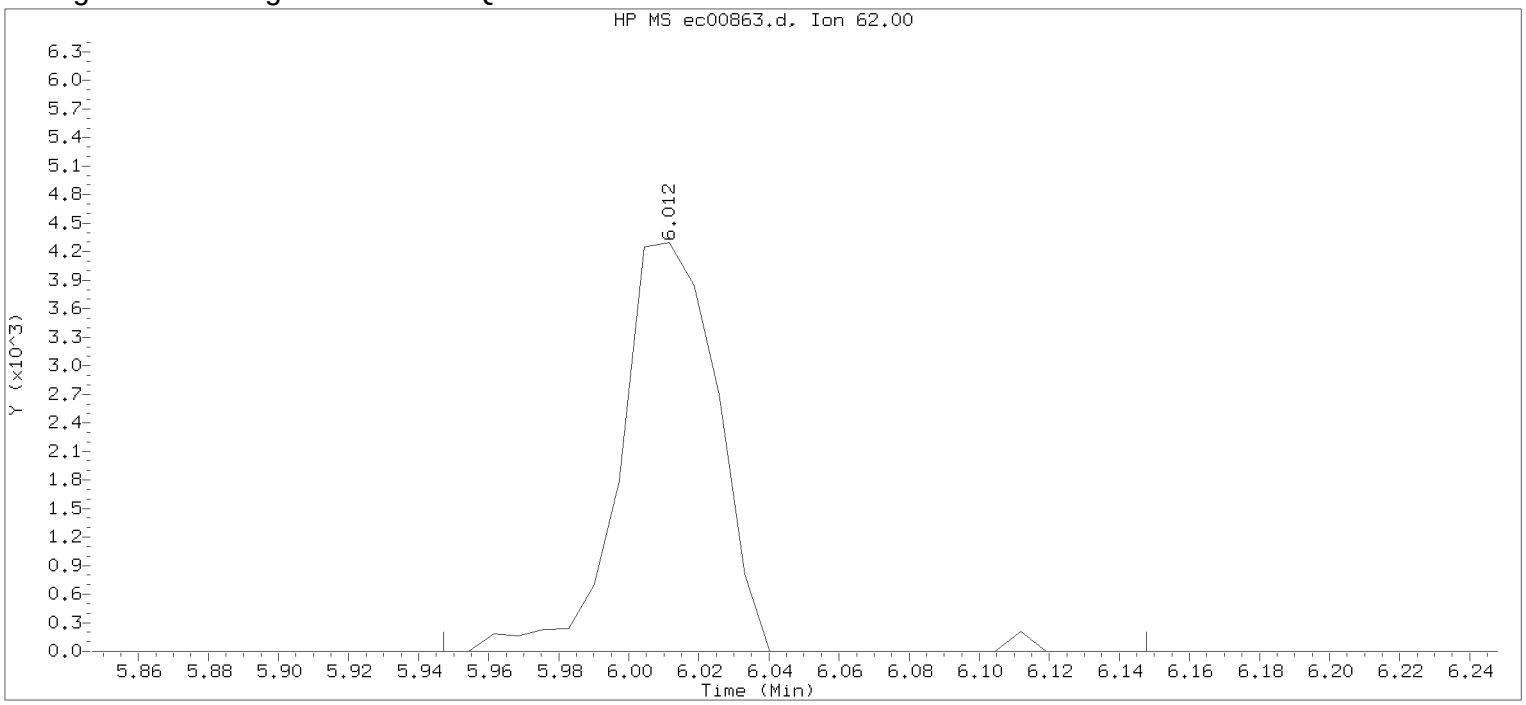
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

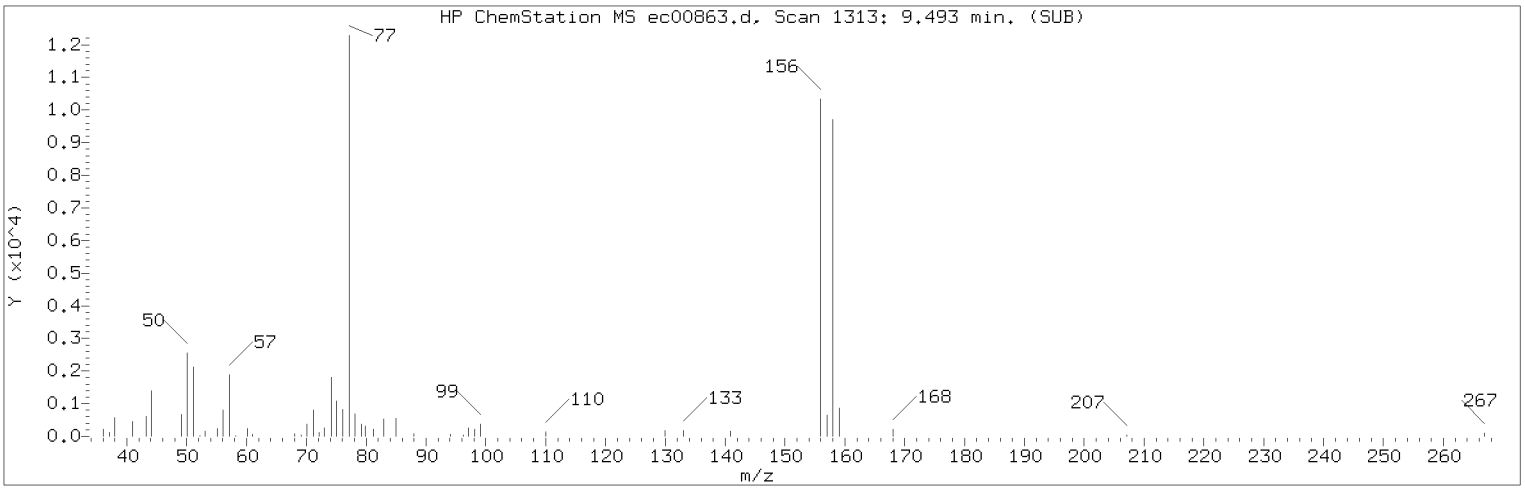
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

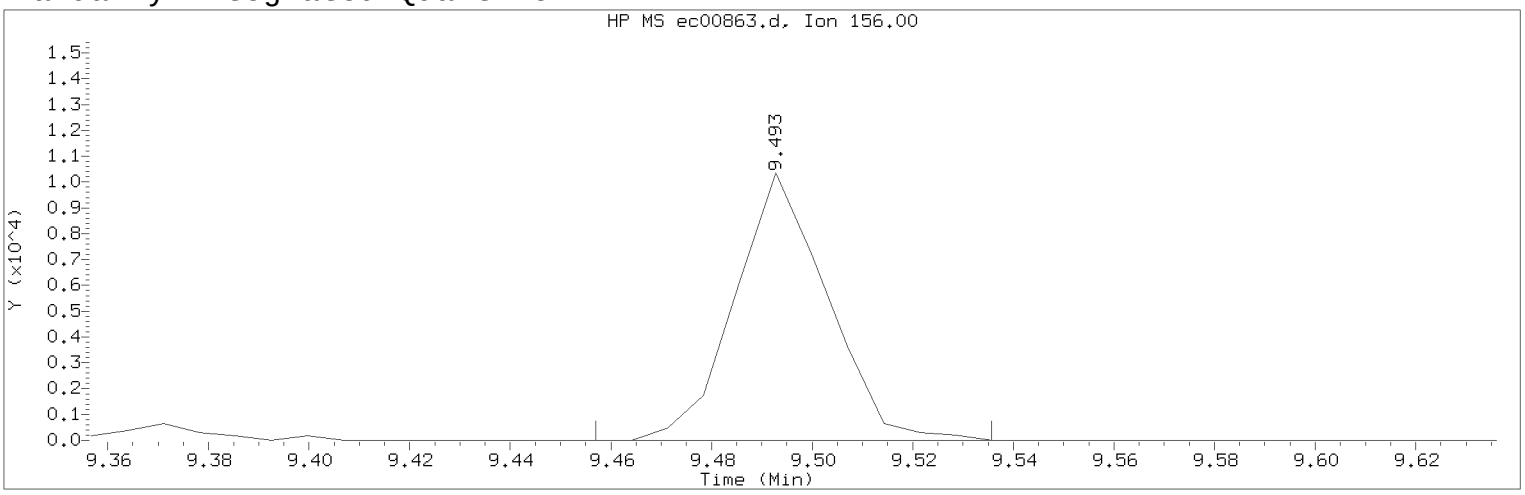
Compound Number : 47
Compound Name : 1,2-Dichloroethane
Scan Number : 827
Retention Time (minutes): 6.012
Quant Ion : 62.00
Area : 8340
Concentration (ppb(v)) : 0.2249
Integration start scan : 817 Integration stop scan: 845
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

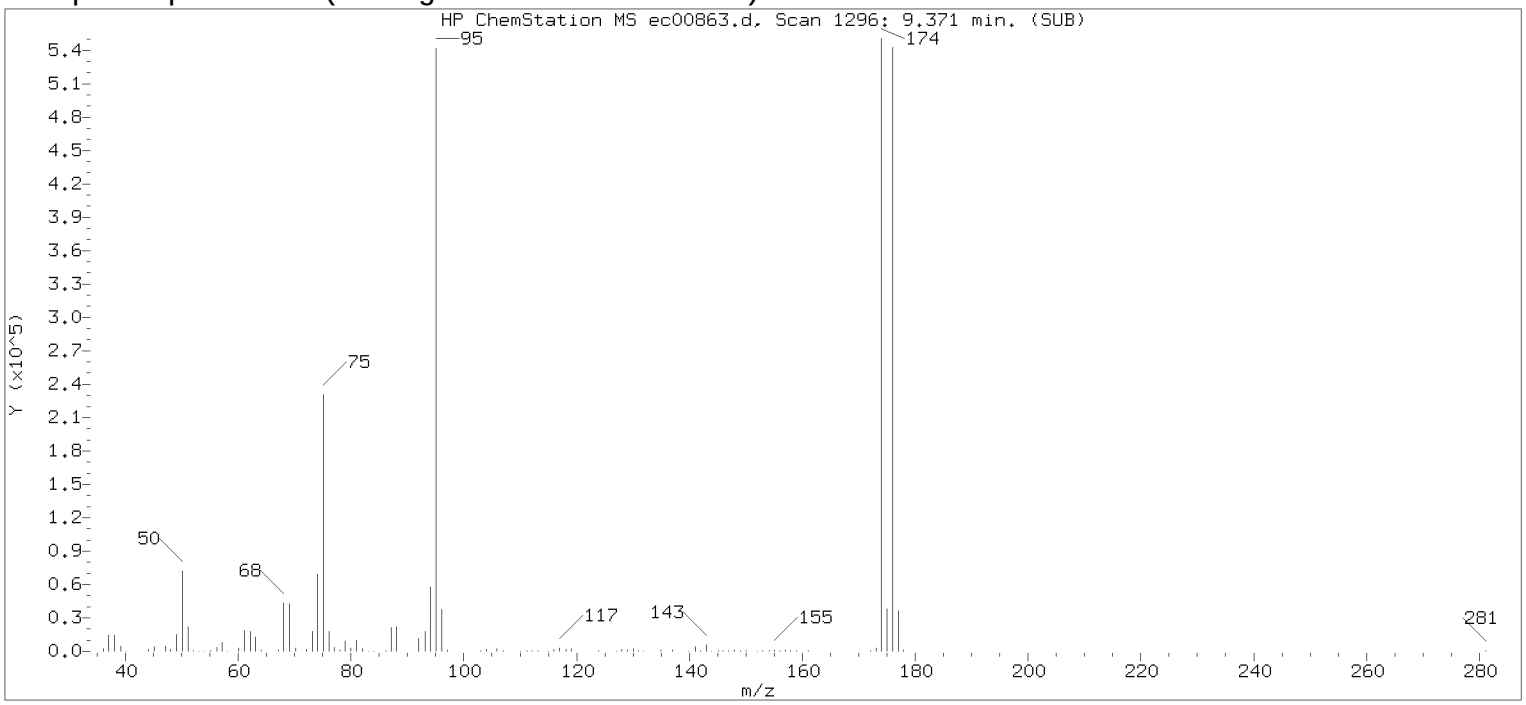
Compound Number : 81
Compound Name : Bromobenzene
Scan Number : 1313
Retention Time (minutes): 9.493
Quant Ion : 156.00
Area (flag) : 13195M
Concentration (ppb(v)) : 0.2106
Integration start scan : 1307 Integration stop scan: 1318
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

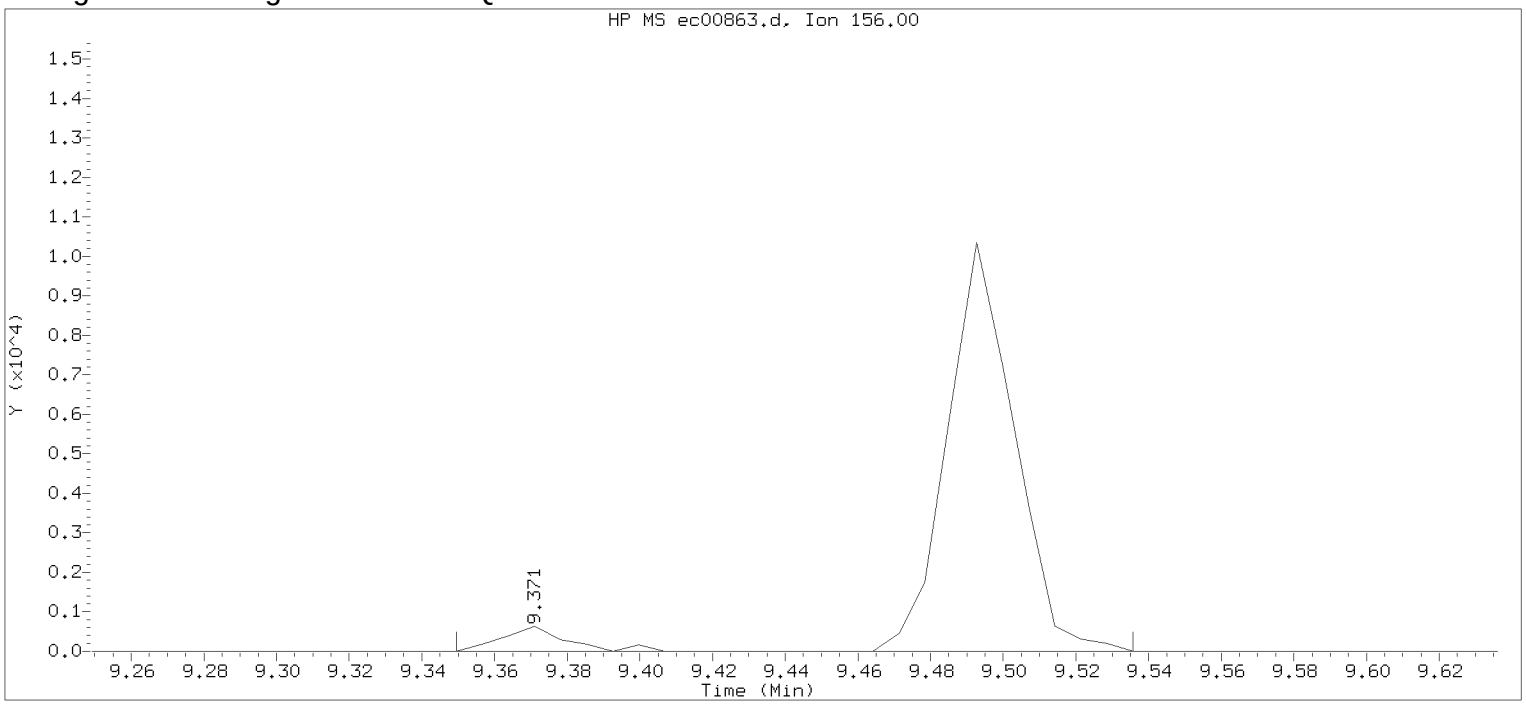
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

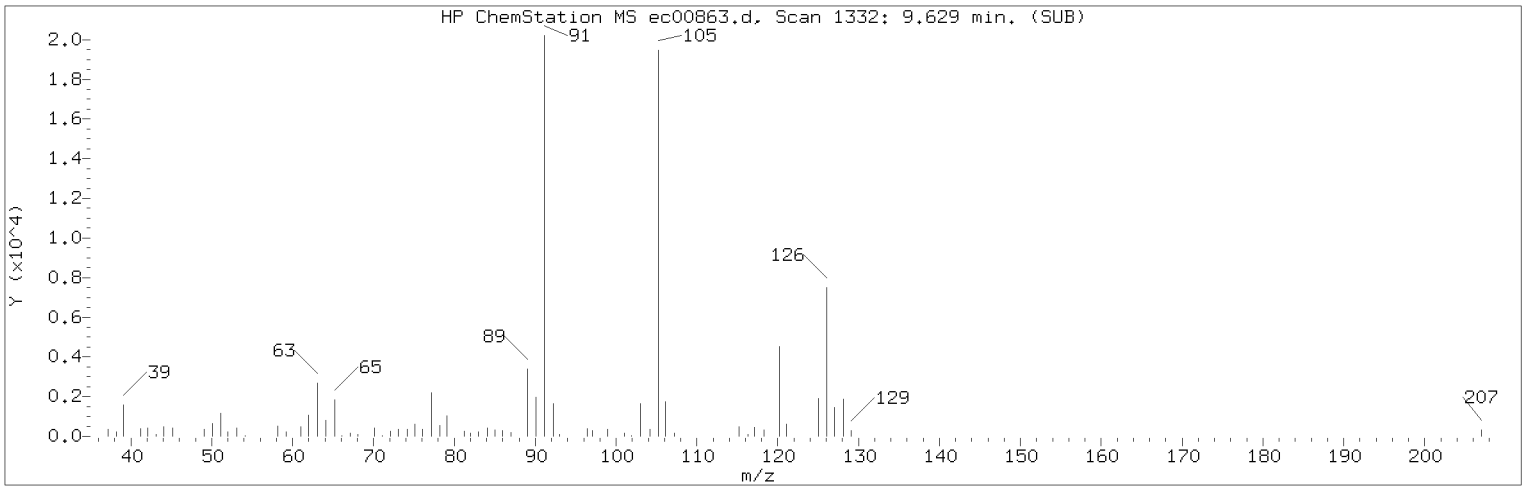
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

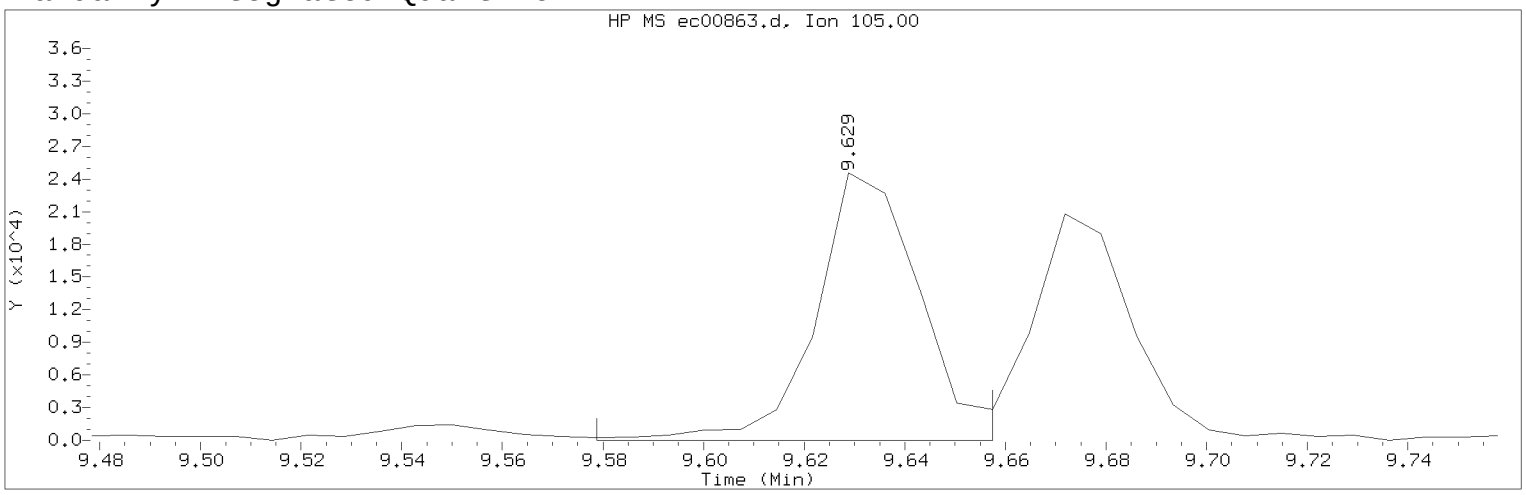
Compound Number : 81
Compound Name : Bromobenzene
Scan Number : 1296
Retention Time (minutes): 9.371
Quant Ion : 156.00
Area : 13986
Concentration (ppb(v)) : 0.1738
Integration start scan : 1292 Integration stop scan: 1318
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

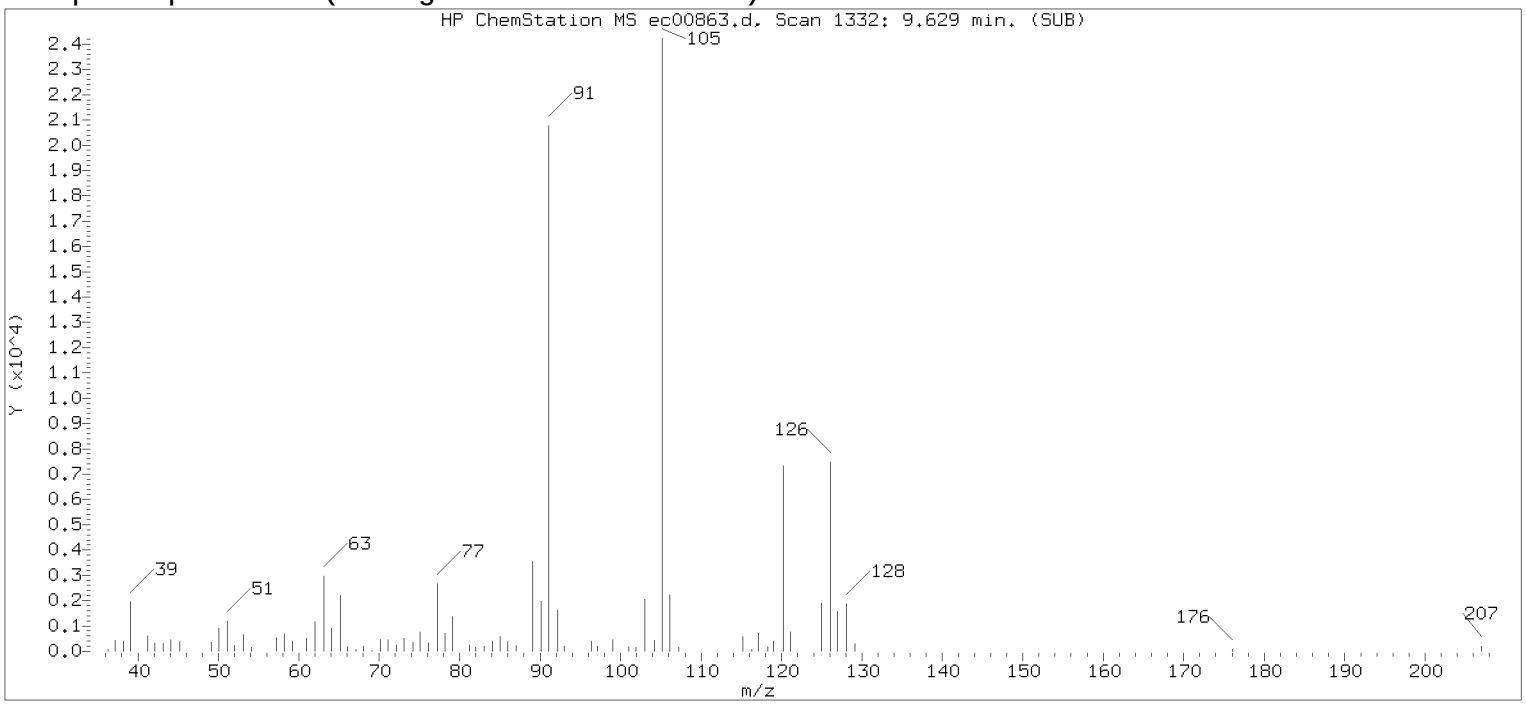
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area (flag) : 35404M
Concentration (ppb(v)) : 0.2192
Integration start scan : 1324 Integration stop scan: 1335
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

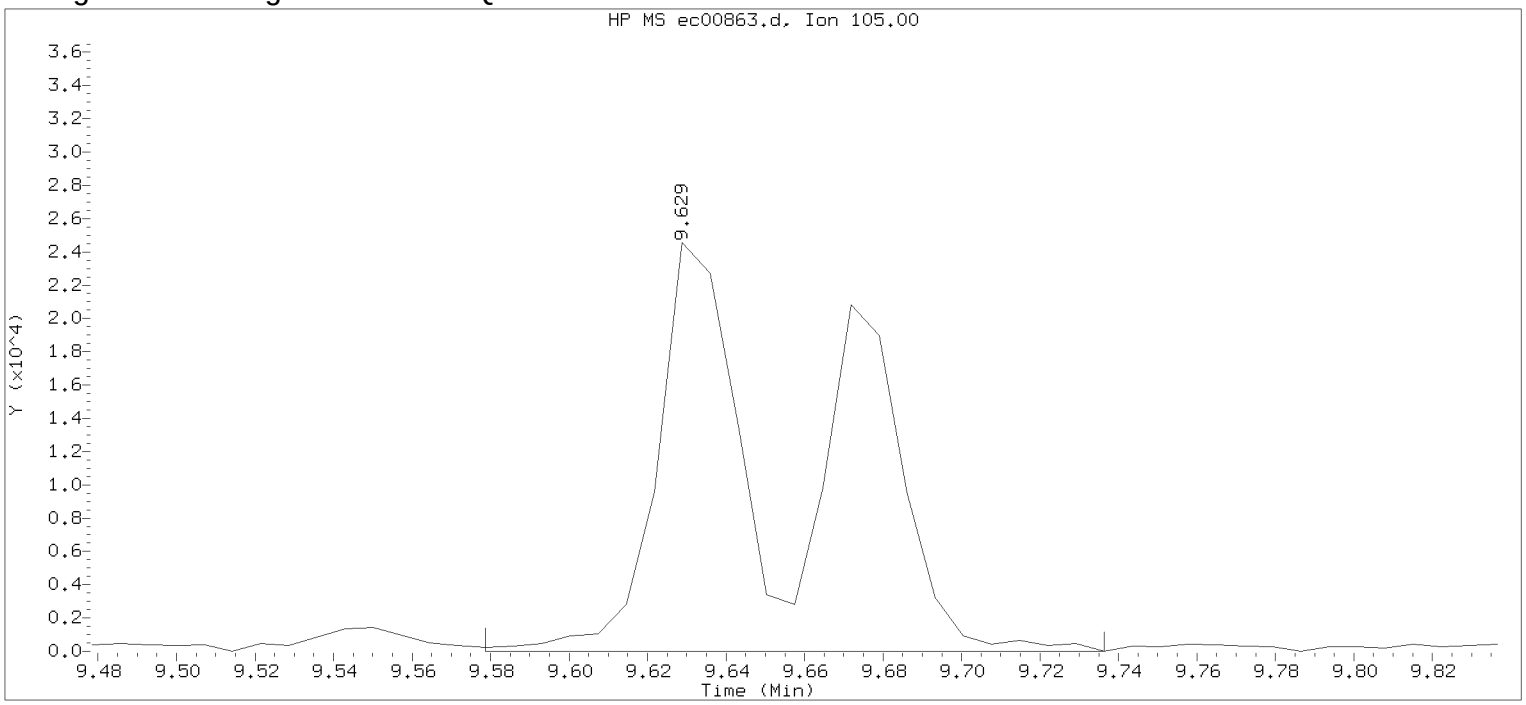
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

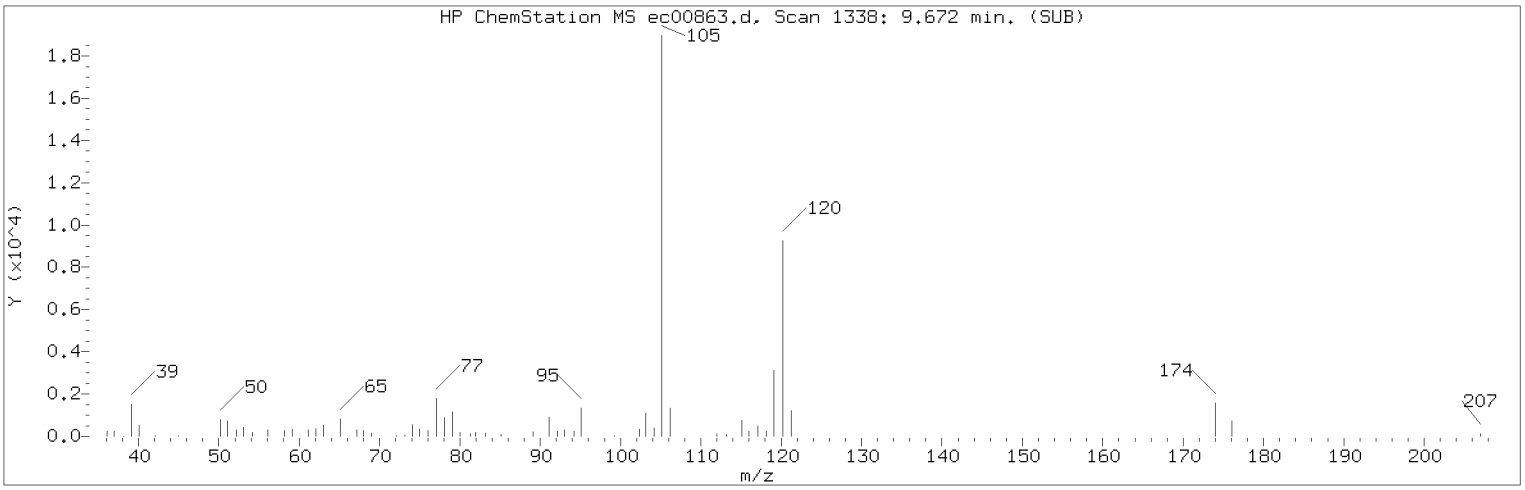
Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

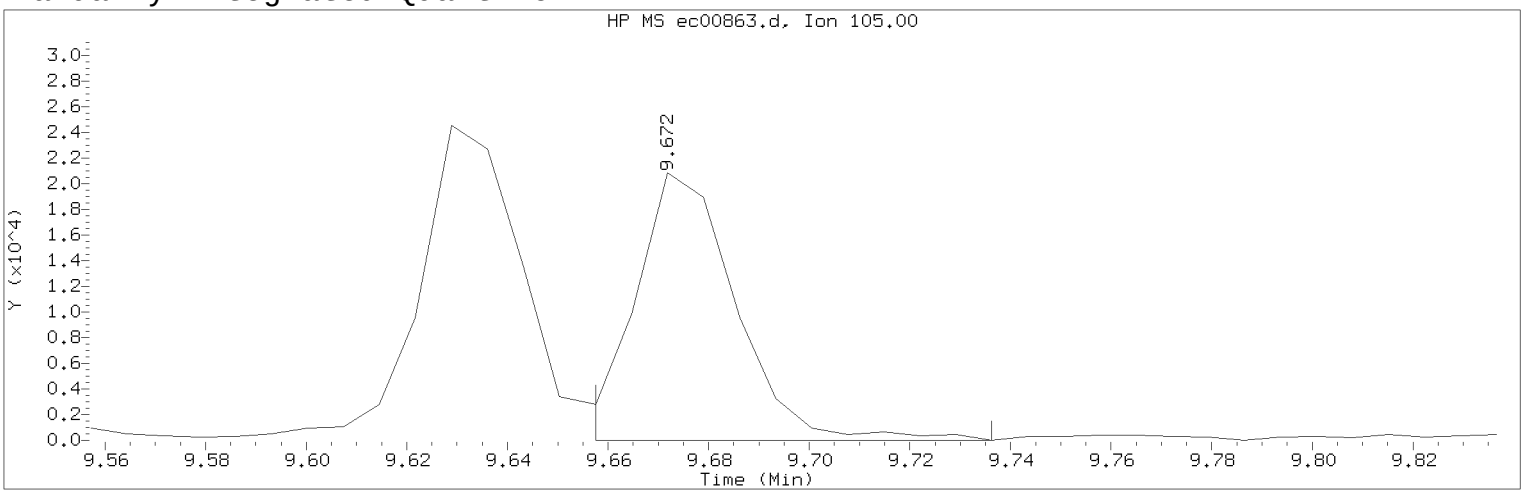
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 63380
Concentration (ppb(v)) : 0.2917
Integration start scan : 1324 Integration stop scan: 1346
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 31-MAR-2017 08:50
Date, time and analyst ID of latest file update: 04-Apr-2017 14:16 jbs01304

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

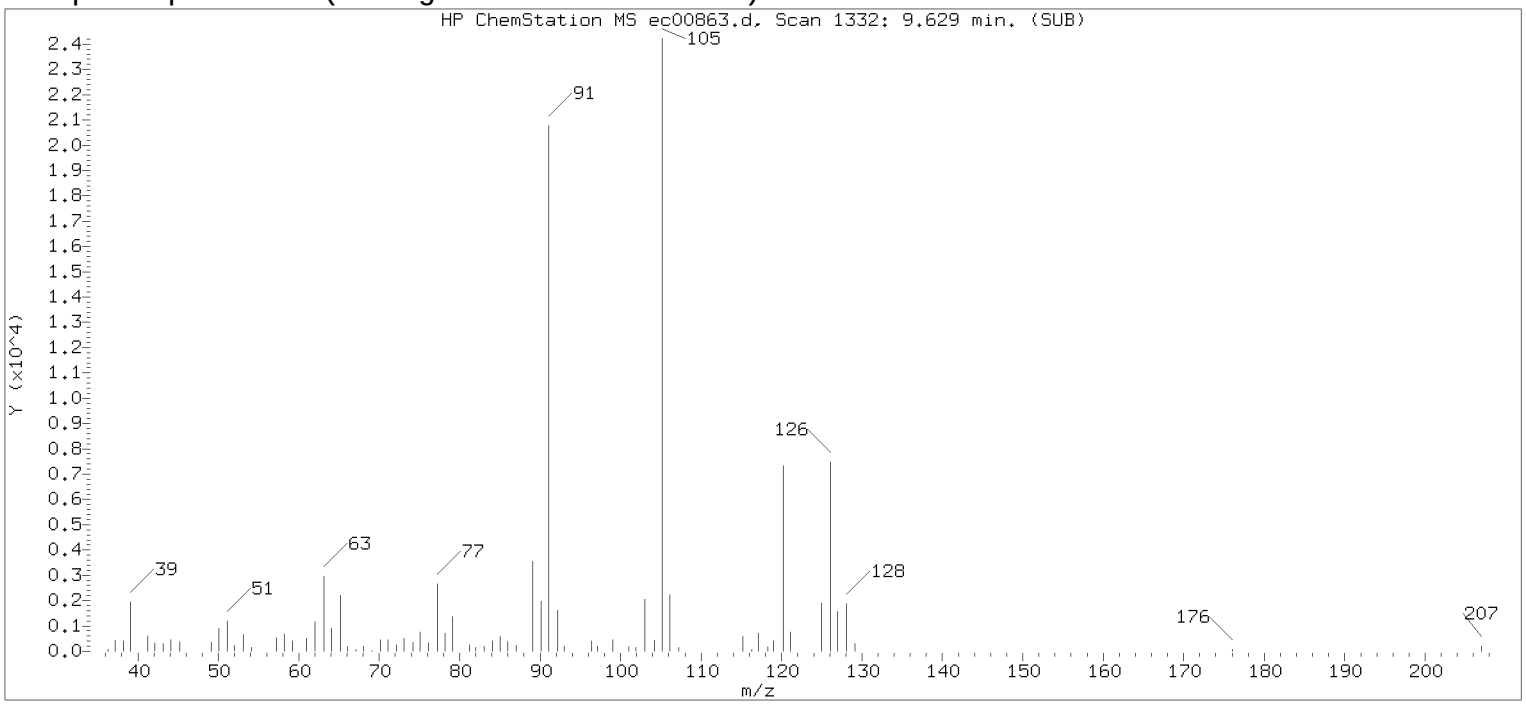
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1338
Retention Time (minutes): 9.672
Quant Ion : 105.00
Area (flag) : 29234M
Concentration (ppb(v)) : 0.2178
Integration start scan : 1335 Integration stop scan: 1346
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

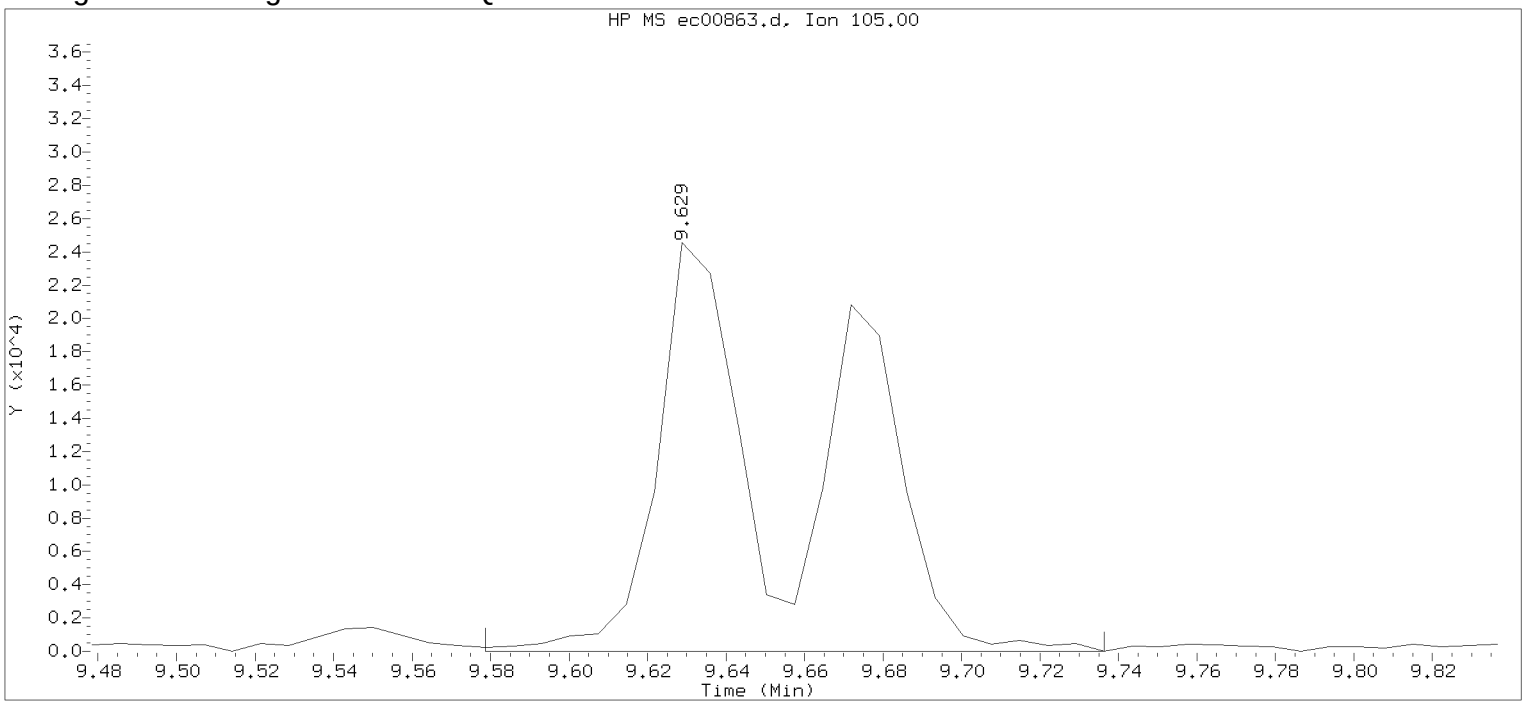
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:15.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17mar30.b/ec00863.d Instrument ID: HP22820.i
Injection date and time: 31-MAR-2017 04:26 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17mar30.b/to-15.m Sublist used: all
Calibration date and time: 30-MAR-2017 13:40
Date, time and analyst ID of latest file update: 31-Mar-2017 04:46 Unknown

Sample Name: mdlv0.2 Lab Sample ID: mdlv0.2

Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1332
Retention Time (minutes): 9.629
Quant Ion : 105.00
Area : 63380
Concentration (ppb(v)) : 0.3517
Integration start scan : 1324 Integration stop scan: 1346
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 04/04/2017 at 14:16.
Target 3.5 esignature user ID: jbs01

Data File: /chem/HP22820.i/17apr06.b/ed00090.d

Date : 06-APR-2017 12:29

Client ID: 50NGBFB

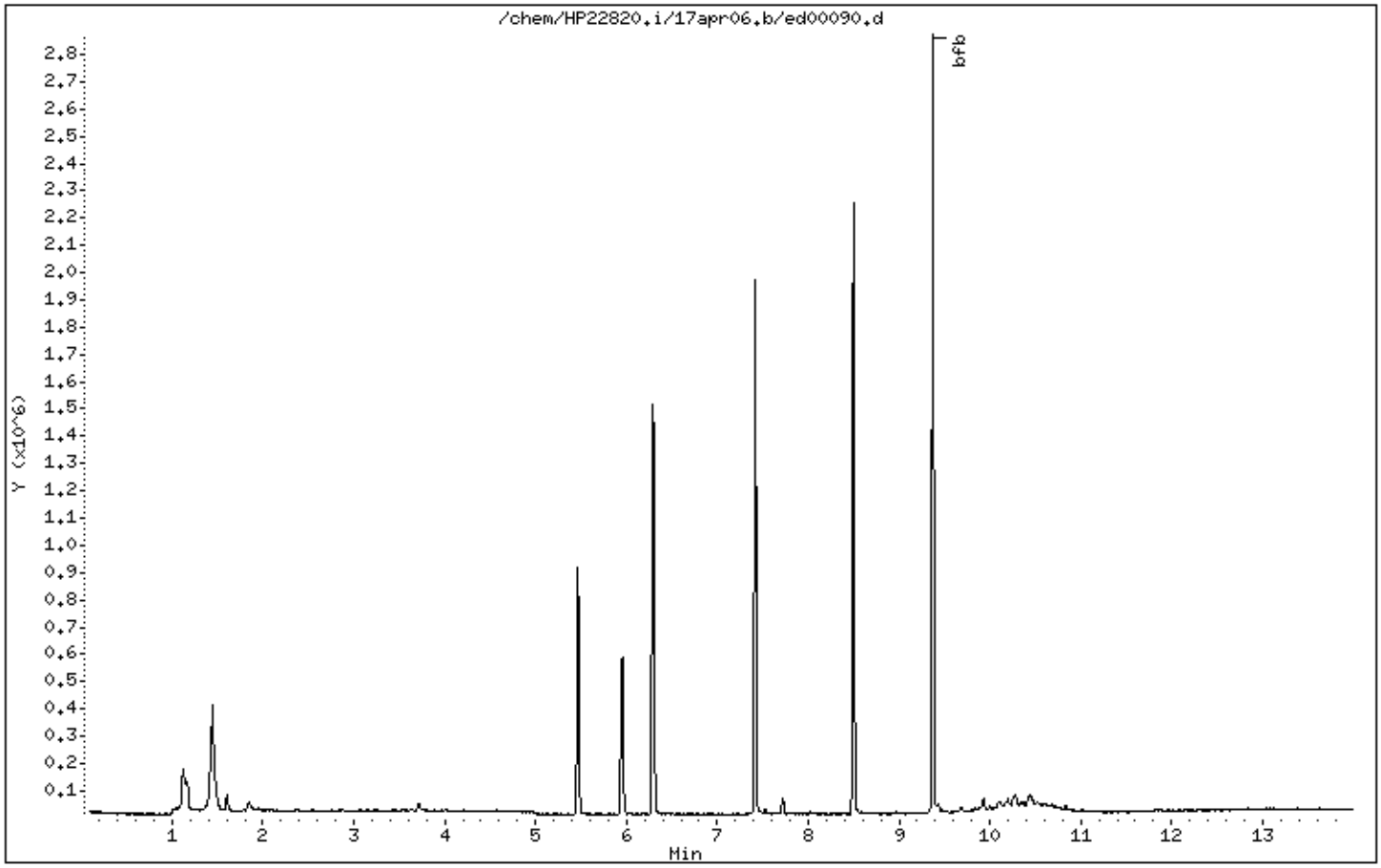
Instrument: HP22820.i

Sample Info: 50NGBFB;;;50NGBFB;;;;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jacob E. Bailey on 04/06/2017 at 02:10.
Target 3.5 esignature user ID: jeb07445

Data File: /chem/HP22820.i/17apr06.b/ed00090.d

Date : 06-APR-2017 12:29

Client ID: 50NGBFB

Instrument: HP22820.i

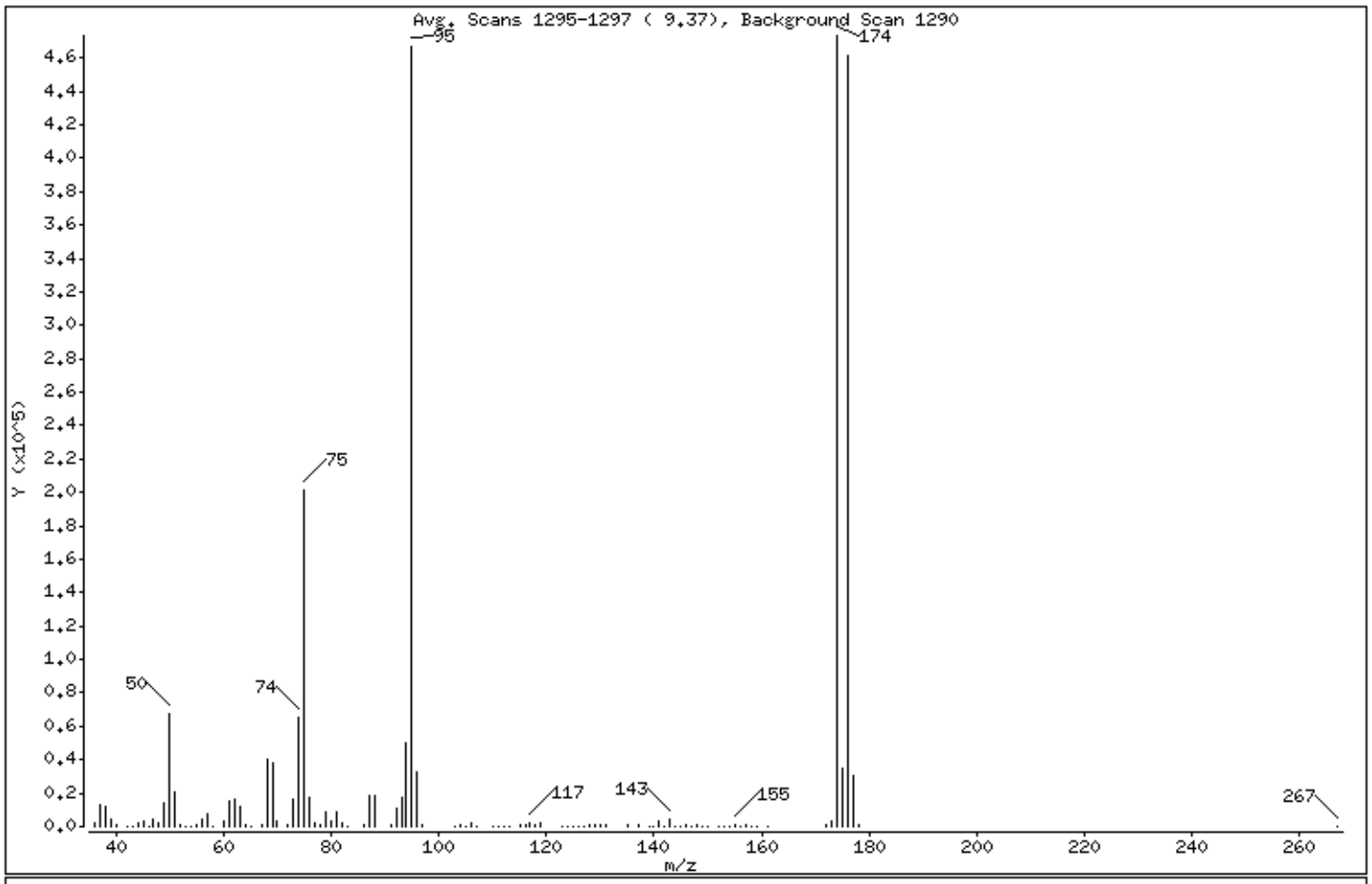
Sample Info: 50NGBFB;;;50NGBFB;;;;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	14.36
75	30.00 - 66.00% of mass 95	43.17
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.61 (0.61)
174	50.00 - 120.00% of mass 95	101.50
175	4.00 - 9.00% of mass 174	7.40 (7.29)
176	93.00 - 101.00% of mass 174	98.94 (97.49)
177	5.00 - 9.00% of mass 176	6.60 (6.67)

Digitally signed by Jacob E. Bailey on 04/06/2017 at 02:10.
Target 3.5 esignature user ID: jeb07445

Date : 06-APR-2017 12:29

Client ID: 50NGBFB Instrument: HP22820.i

Sample Info: 50NGBFB;;;50NGBFB;;;;

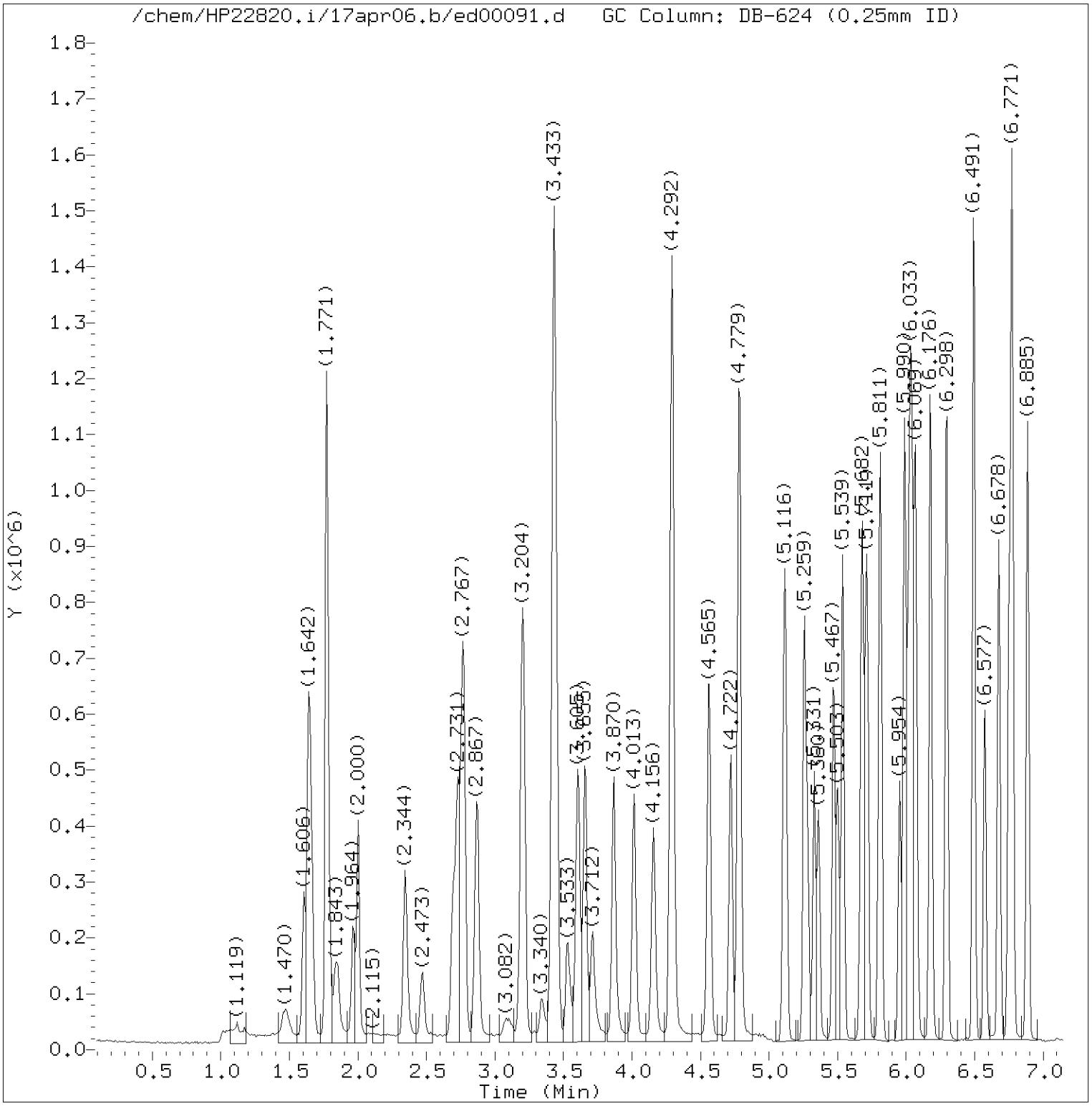
Operator: jeb07445

Column phase: DB-624 Column diameter: 0.25

Data File: ed00090.d
Spectrum: Avg. Scans 1295-1297 (9.37), Background Scan 1290
Location of Maximum: 174.00
Number of points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2502	67.00	761	105.00	408	144.00	230
37.00	12903	68.00	40136	106.00	1718	145.00	399
38.00	12287	69.00	37992	107.00	499	146.00	697
39.00	4727	70.00	2739	110.00	134	147.00	376
40.00	912	72.00	1544	111.00	492	148.00	1153
42.00	2	73.00	16656	112.00	277	149.00	345
43.00	345	74.00	65064	113.00	401	150.00	342
44.00	1704	75.00	201344	115.00	639	152.00	205
45.00	2813	76.00	17720	116.00	1486	153.00	376
46.00	332	77.00	2342	117.00	2073	154.00	333
47.00	4041	78.00	1410	118.00	1541	155.00	1248
48.00	1880	79.00	8808	119.00	2048	156.00	254
49.00	13630	80.00	3197	123.00	130	157.00	1111
50.00	66984	81.00	9166	124.00	233	158.00	260
51.00	20856	82.00	2225	125.00	50	159.00	404
52.00	736	83.00	220	126.00	224	161.00	484
53.00	15	86.00	596	127.00	133	172.00	582
54.00	146	87.00	18176	128.00	1450	173.00	2867
55.00	806	88.00	18768	129.00	759	174.00	473408
56.00	4376	91.00	1047	130.00	1540	175.00	34520
57.00	7594	92.00	11098	131.00	663	176.00	461504
58.00	425	93.00	17584	135.00	837	177.00	30768
60.00	3082	94.00	50296	137.00	774	178.00	849
61.00	15635	95.00	466432	139.00	68	267.00	151
62.00	15930	96.00	32288	140.00	313		
63.00	12057	97.00	1367	141.00	3690		
64.00	1495	103.00	289	142.00	502		
65.00	426	104.00	1592	143.00	4609		

Digitally signed by Jacob E. Bailey on 04/06/2017 at 02:10.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

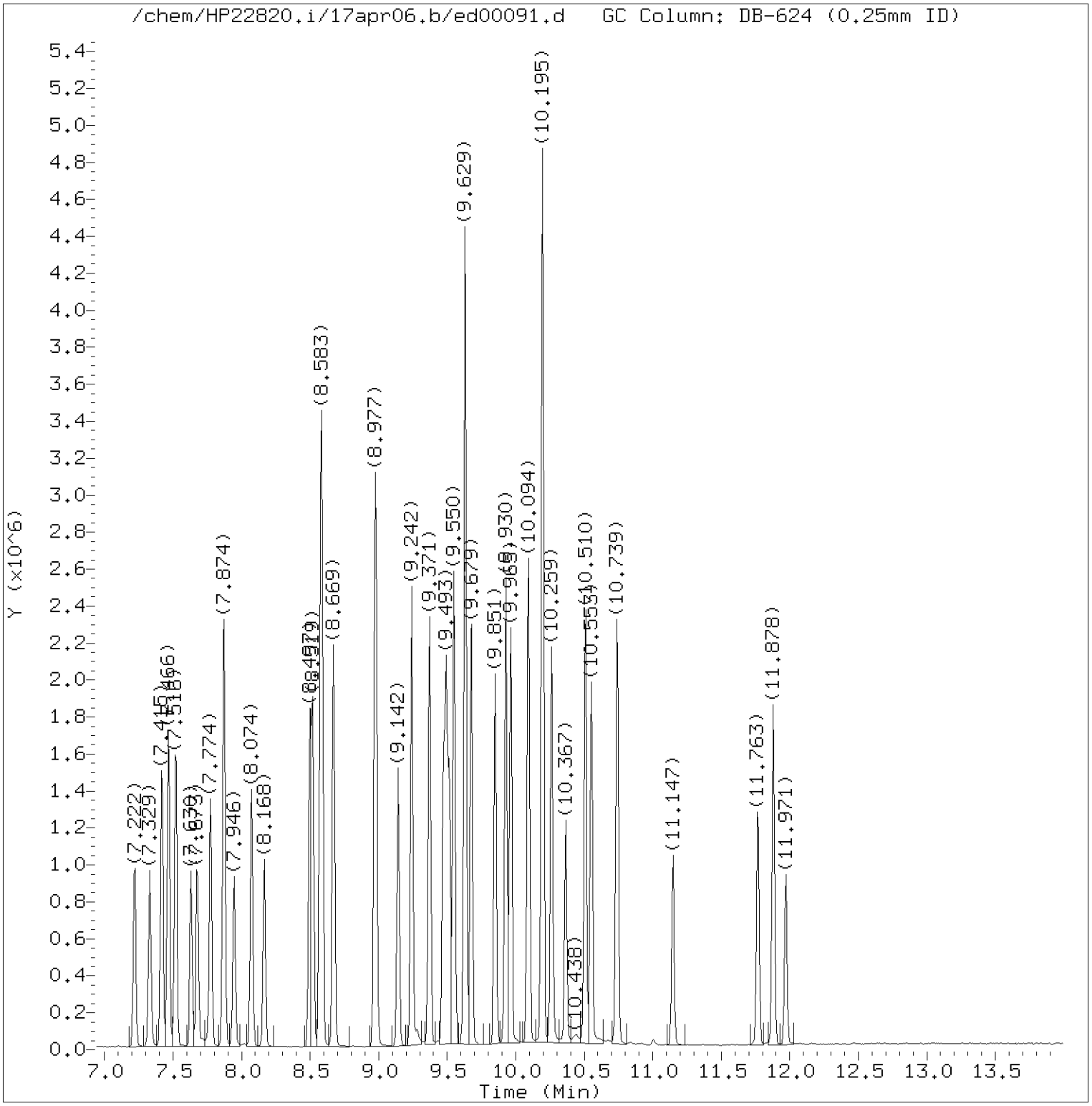
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.606	41	144245	10.423
2) Dichlorodifluoromethane	(1)	1.642	85	628278	11.319
3) Chlorodifluoromethane	(1)	1.664	51	313368	10.846
4) Freon 114	(1)	1.771	85	645796	11.110
5) Chloromethane	(1)	1.850	50	150841	10.128
6) Vinyl Chloride	(1)	1.964	62	222427	10.650
7) 1,3-Butadiene	(1)	2.000	54	157449	10.256
8) Bromomethane	(1)	2.344	94	239768	11.221
9) Chloroethane	(1)	2.473	64	122905	10.562
10) Bromoethene	(1)	2.695	106	249547	10.737
11) Dichlorofluoromethane	(1)	2.731	67	504070	11.067
12) Trichlorofluoromethane	(1)	2.767	101	670238	11.222
13) Pentane	(1)	2.867	43	328306	10.512
14) Ethanol	(1)	3.075	45	47891	9.135
15) Freon123a	(1)	3.204	67	478982	10.844
16) Acrolein	(1)	3.340	56	83920	10.427
17) 1,1-Dichloroethene	(1)	3.426	61	358107	11.090
18) Freon 113	(1)	3.440	103	372183	10.581
19) Acetone	(1)	3.533	43	271051	10.828
20) Methyl Iodide	(1)	3.605	142	667692	10.171
21) Carbon Disulfide	(1)	3.655	76	693073	10.835
22) Isopropanol	(1)	3.712	45	277460	12.463
24) 3-Chloropropene	(1)	3.863	76	115415	11.924
23) Acetonitrile	(1)	3.870	40	104625	9.017
25) Methylene Chloride	(1)	4.013	84	230252	12.093
26) tert-Butyl Alcohol	(1)	4.156	59	475270	12.944
29) Methyl t-Butyl Ether	(1)	4.292	73	683294	10.522
28) trans-1,2-Dichloroethene	(1)	4.292	61	324838	10.846
27) Acrylonitrile	(1)	4.300	53	171139M	10.269
30) Hexane	(1)	4.565	57	332570	10.255
31) 1,1-Dichloroethane	(1)	4.722	63	429915	10.917
33) Di-Isopropyl Ether	(1)	4.779	45	653451	10.415
32) Vinyl Acetate	(1)	4.787	86	73374	13.753
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	682743	10.393
35) cis-1,2-Dichloroethene	(1)	5.259	61	312892	10.961
37) 2-Butanone	(1)	5.281	72	121804	10.630
38) Ethyl Acetate	(1)	5.331	70	59617	9.688
39) Methyl Acrylate	(1)	5.360	55	375754	10.861

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.467	130	220438	10.000
41) Tetrahydrofuran	(1)	5.503	42	220629	10.688
42) Chloroform	(1)	5.539	83	537626	10.833
43) 1,1,1-Trichloroethane	(1)	5.682	97	543015	10.820
44) Cyclohexane	(1)	5.711	56	349285	10.280
45) Carbon Tetrachloride	(1)	5.811	117	575141	11.038
46) Benzene	(2)	5.990	78	805987	10.459
47) 1,2-Dichloroethane	(2)	6.011	62	326347	11.242
48) Isooctane	(2)	6.040	57	1122531	10.588
49) Tert-Amyl Methyl Ether	(2)	6.069	73	741625	10.607
50) Heptane	(2)	6.176	43	362530	10.327
51)*1,4-Difluorobenzene	(2)	6.298	114	830640	10.000
52) Trichloroethene	(2)	6.491	130	429584	10.818
53) Ethyl Acrylate	(2)	6.577	55	480415	10.719
36) 1,2-Dichloroethene (total)	(1)		61	637730	21.807
54) 1,2-Dichloropropane	(2)	6.678	63	271929	10.314
57) Methyl Methacrylate	(2)	6.749	69	263494	10.256
55) Dibromomethane	(2)	6.771	174	430561	11.015
56) 1,4-Dioxane	(2)	6.778	88	188447	10.204
58) Bromodichloromethane	(2)	6.885	83	550933	10.964
59) cis-1,3-Dichloropropene	(2)	7.222	75	469070	10.502
60) 4-Methyl-2-Pentanone	(2)	7.329	43	458986	10.255
61) Toluene	(3)	7.466	91	998343M	10.165
62) Octane	(3)	7.516	43	487431	10.110
63) trans-1,3-Dichloropropene	(3)	7.630	75	397839	10.504
65) Ethyl Methacrylate	(3)	7.673	69	436794	10.714
66) 1,1,2-Trichloroethane	(3)	7.774	97	346423	10.556
67) Tetrachloroethene	(3)	7.874	166	622813	10.773
68) 2-Hexanone	(3)	7.946	43	421641	10.198
69) Dibromochloromethane	(3)	8.074	127	465534	10.901
70) 1,2-Dibromoethane	(3)	8.168	107	543851	10.574
71)*Chlorobenzene-d5	(3)	8.497	117	813643	10.000
72) Chlorobenzene	(3)	8.519	112	861562	10.230
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	466565	11.023
74) Ethylbenzene	(3)	8.583	91	1300110	10.330
75) m/p-Xylene	(3)	8.669	91	1019918	10.261
76) o-Xylene	(3)	8.970	91	980660	10.179
78) Styrene	(3)	8.984	104	744195	10.211

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

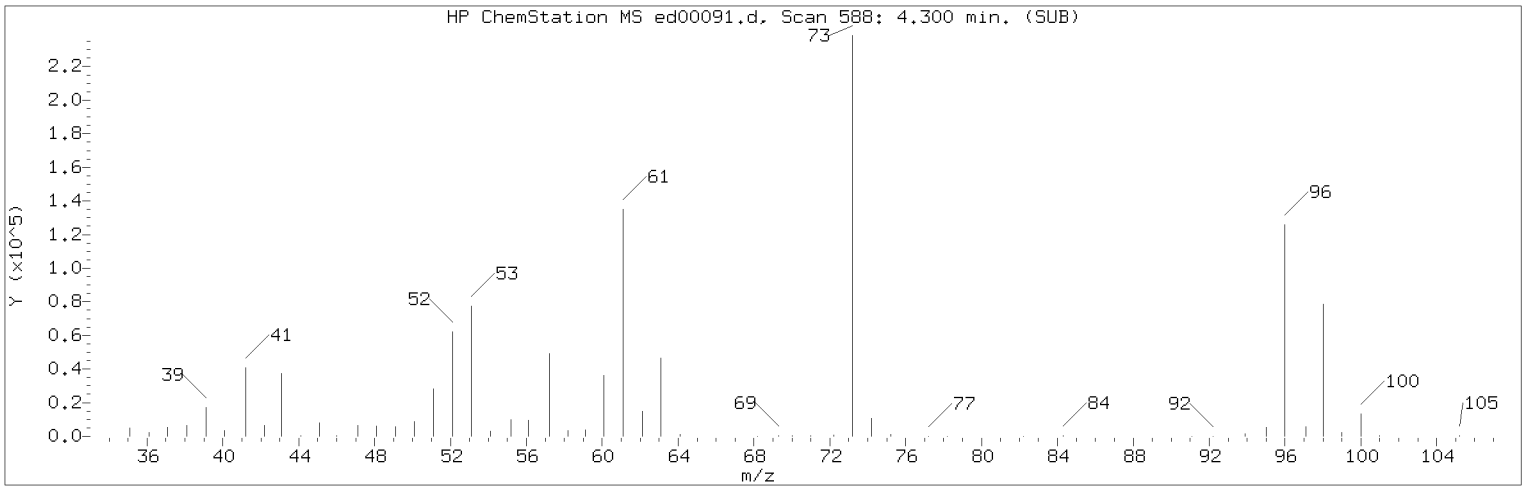
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	577541	10.692
80) Cumene	(3)	9.242	105	1394053	10.282
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	625508	9.841
81) Bromobenzene	(3)	9.493	156	525669	10.123
83) 1,2,3-Trichloropropane	(3)	9.514	110	214858	10.123
84) n-Propylbenzene	(3)	9.550	120	417098	10.075
85) 2-Chlorotoluene	(3)	9.629	126	374173	10.030
86) 4-Ethyltoluene	(3)	9.636	105	1385649	10.351
87) 1,3,5-Trimethylbenzene	(3)	9.679	105	1100938	9.895
88) Alpha Methyl Styrene	(3)	9.851	118	532146	10.042
89) tert-Butylbenzene	(3)	9.930	119	1121937M	10.236
90) 1,2,4-Trimethylbenzene	(3)	9.965	105	1077219	10.235
91) sec-Butylbenzene	(3)	10.094	105	1575746	10.215
92) 1,3-Dichlorobenzene	(3)	10.195	146	800071	10.047
94) p-Isopropyltoluene	(3)	10.195	119	1330875	10.161
93) 1,4-Dichlorobenzene	(3)	10.259	146	788404	9.758
95) Benzyl Chloride	(3)	10.367	91	720746	10.361
97) n-Butylbenzene	(3)	10.510	91	1075920	9.907
96) 1,2-Dichlorobenzene	(3)	10.553	146	707589	9.847
98) Hexachloroethane	(3)	10.739	117	341649	11.176
99) 1,2-Dibromo-3-chloropropane	(3)	11.147	157	268314	9.545
100) 1,2,4-Trichlorobenzene	(3)	11.763	180	374208	8.681
101) Hexachlorobutadiene	(3)	11.878	225	345187	8.915
102) Naphthalene	(3)	11.971	128	662393	8.473
64) 1,3-Dichloropropene (total)	(3)		75	866909	21.015
77) Xylene (total)	(3)		91	2000578	20.441

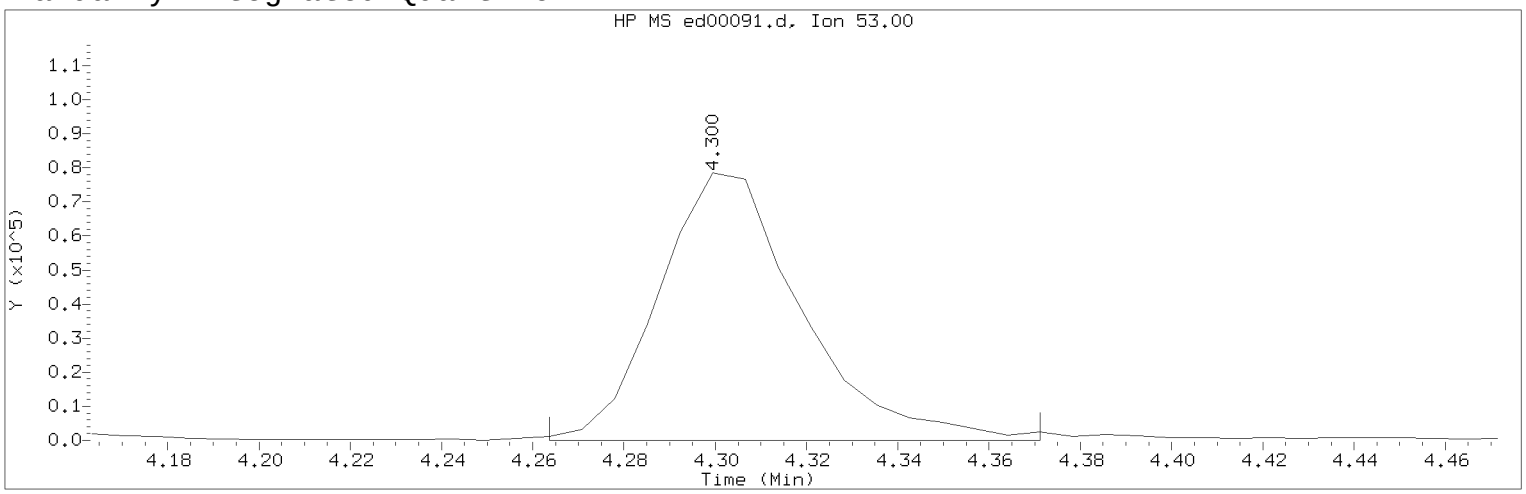
M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

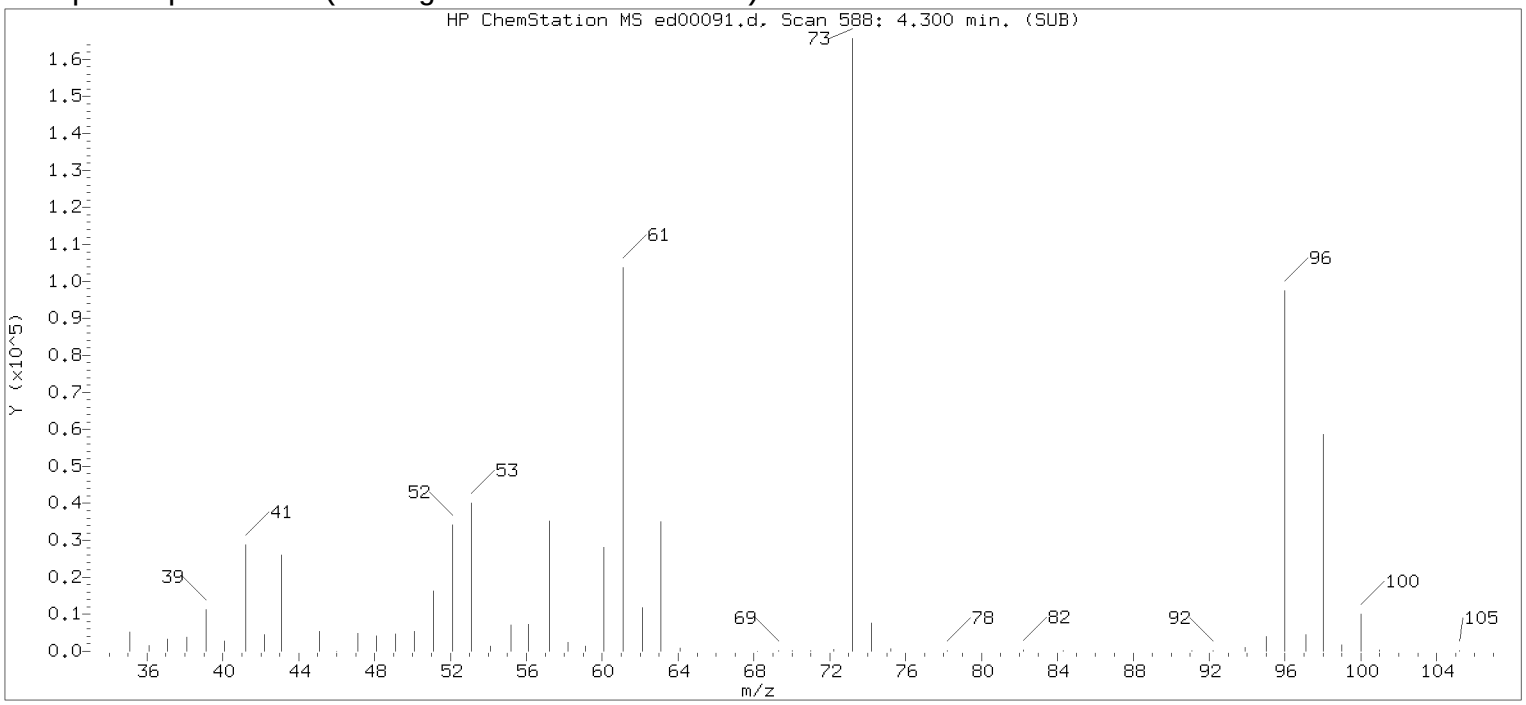
Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 588
Retention Time (minutes): 4.300
Quant Ion : 53.00
Area (flag) : 171139M
Concentration (ppb(v)) : 10.2686
Integration start scan : 582 Integration stop scan: 597
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

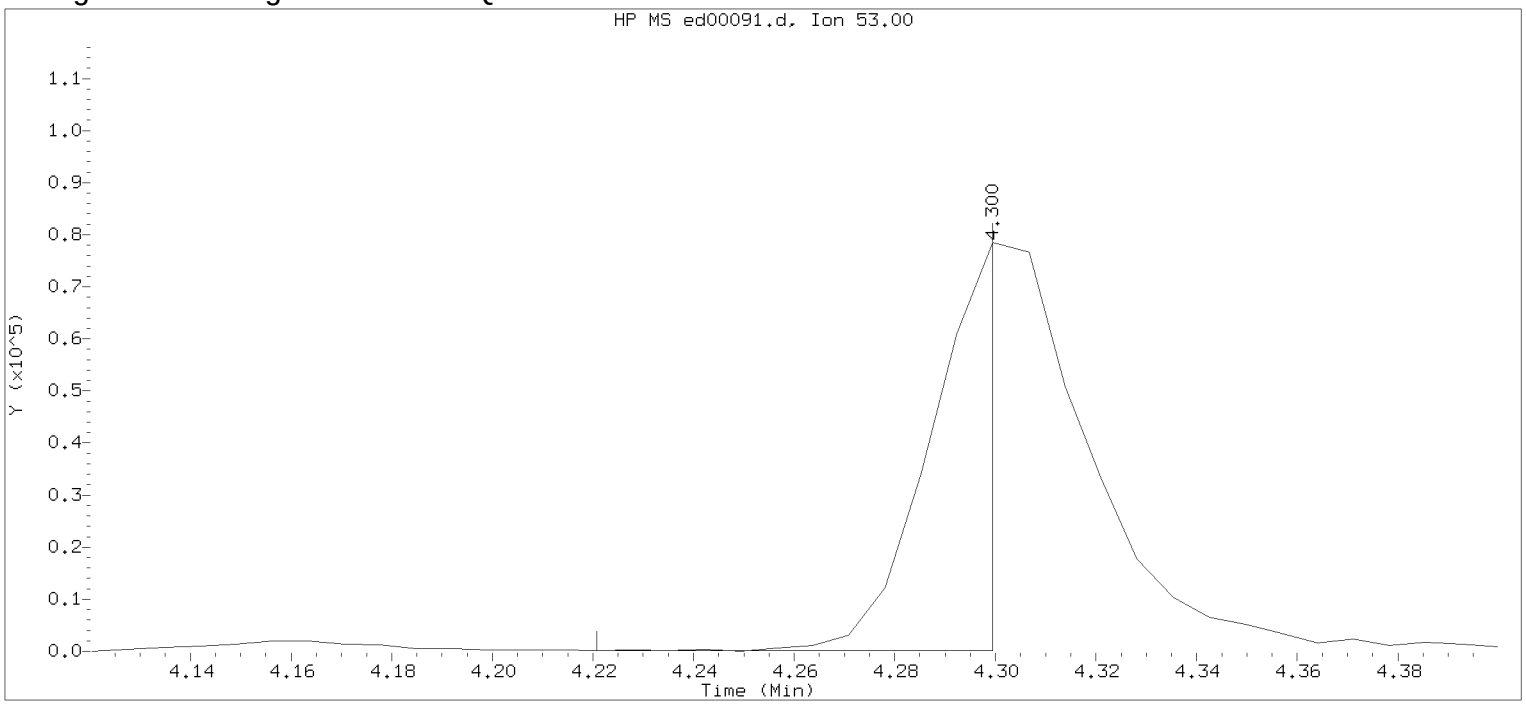
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

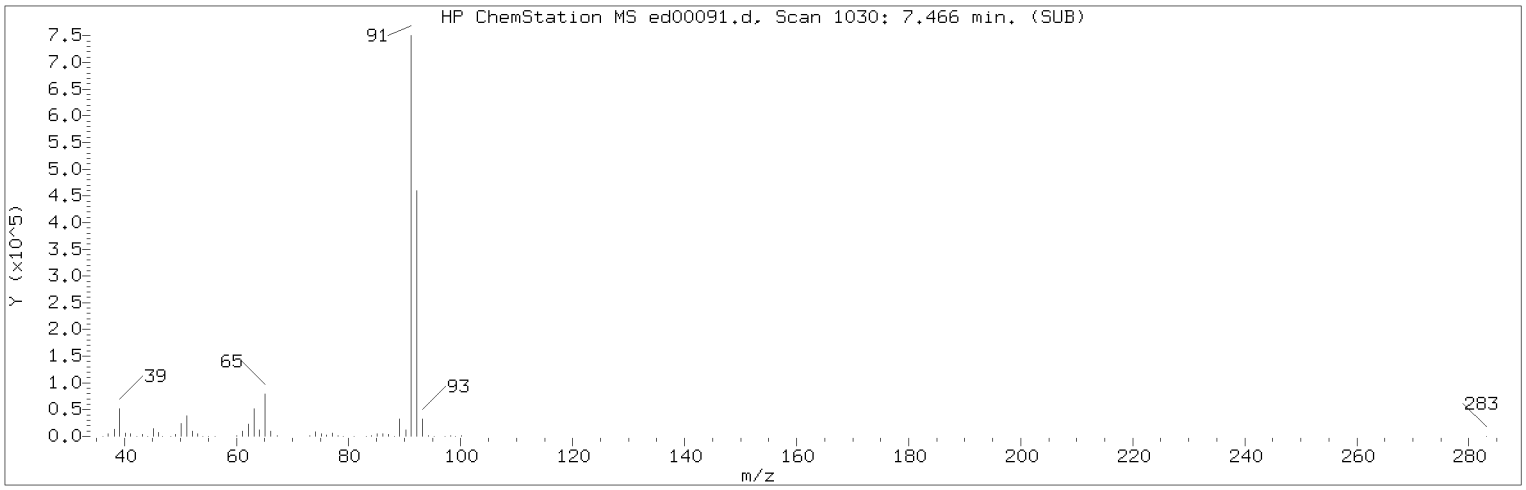
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 04-APR-2017 11:56
Date, time and analyst ID of latest file update: 06-Apr-2017 01:31 Unknown

Sample Name: VSTD010 Lab Sample ID: VSTD010

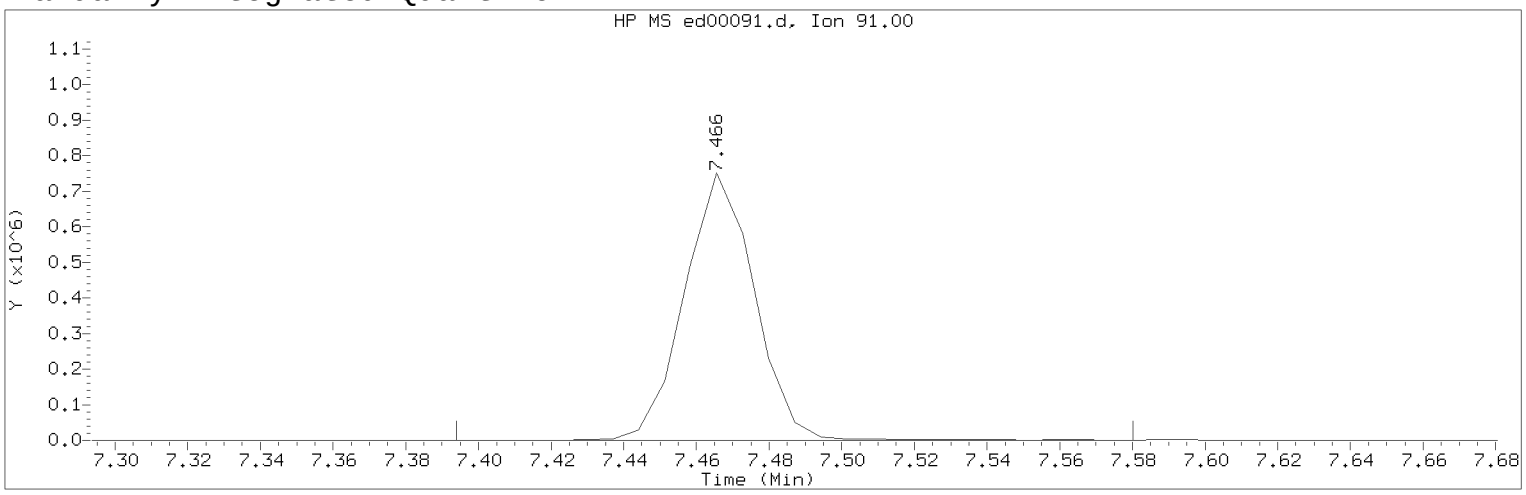
Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 588
Retention Time (minutes): 4.300
Quant Ion : 53.00
Area : 64644
Concentration (ppb(v)) : 3.8788
Integration start scan : 576 Integration stop scan: 587
Y at integration start : 173 Y at integration end: 173

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Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

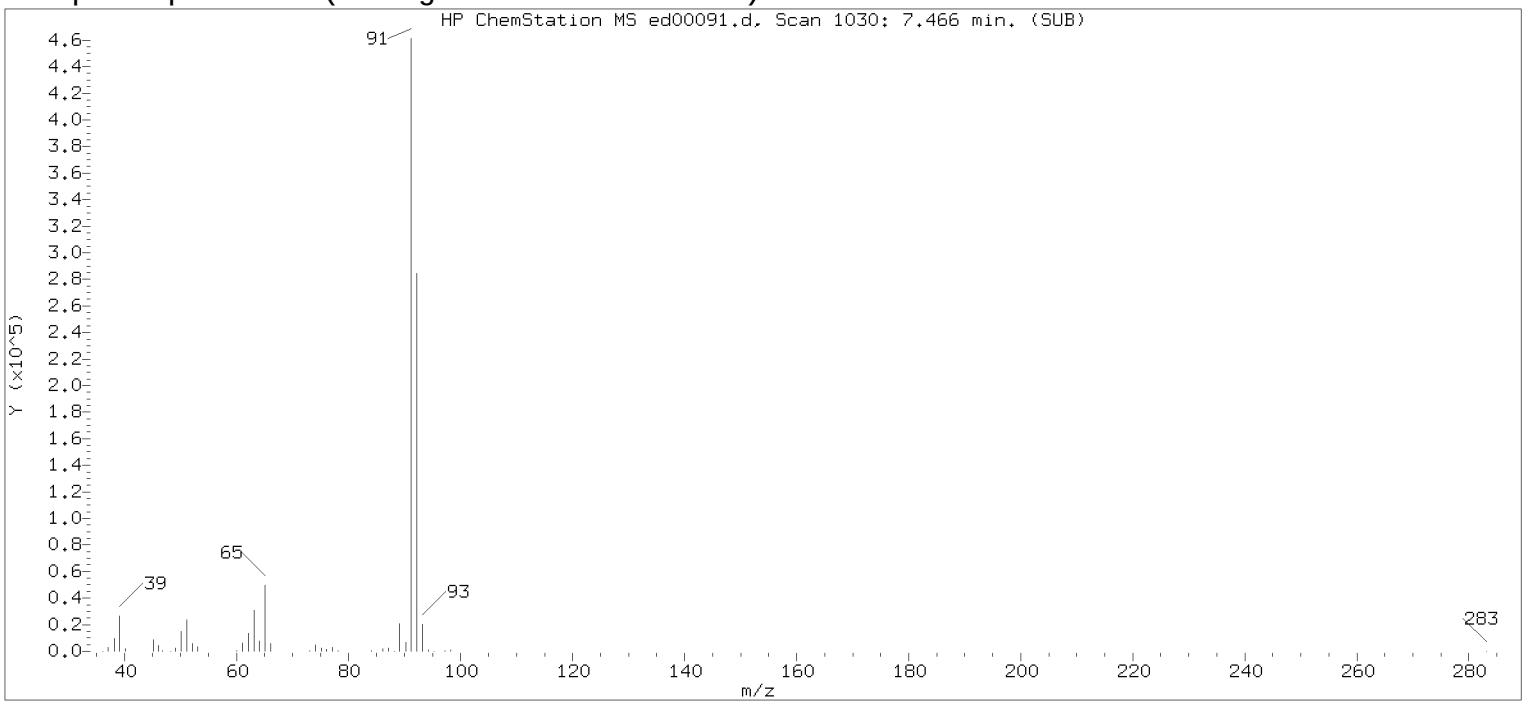
Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.466
Quant Ion : 91.00
Area (flag) : 998343M
Concentration (ppb(v)) : 10.1648
Integration start scan : 1019 Integration stop scan: 1045
Y at integration start : 223 Y at integration end: 621

Reason for manual integration: improper integration

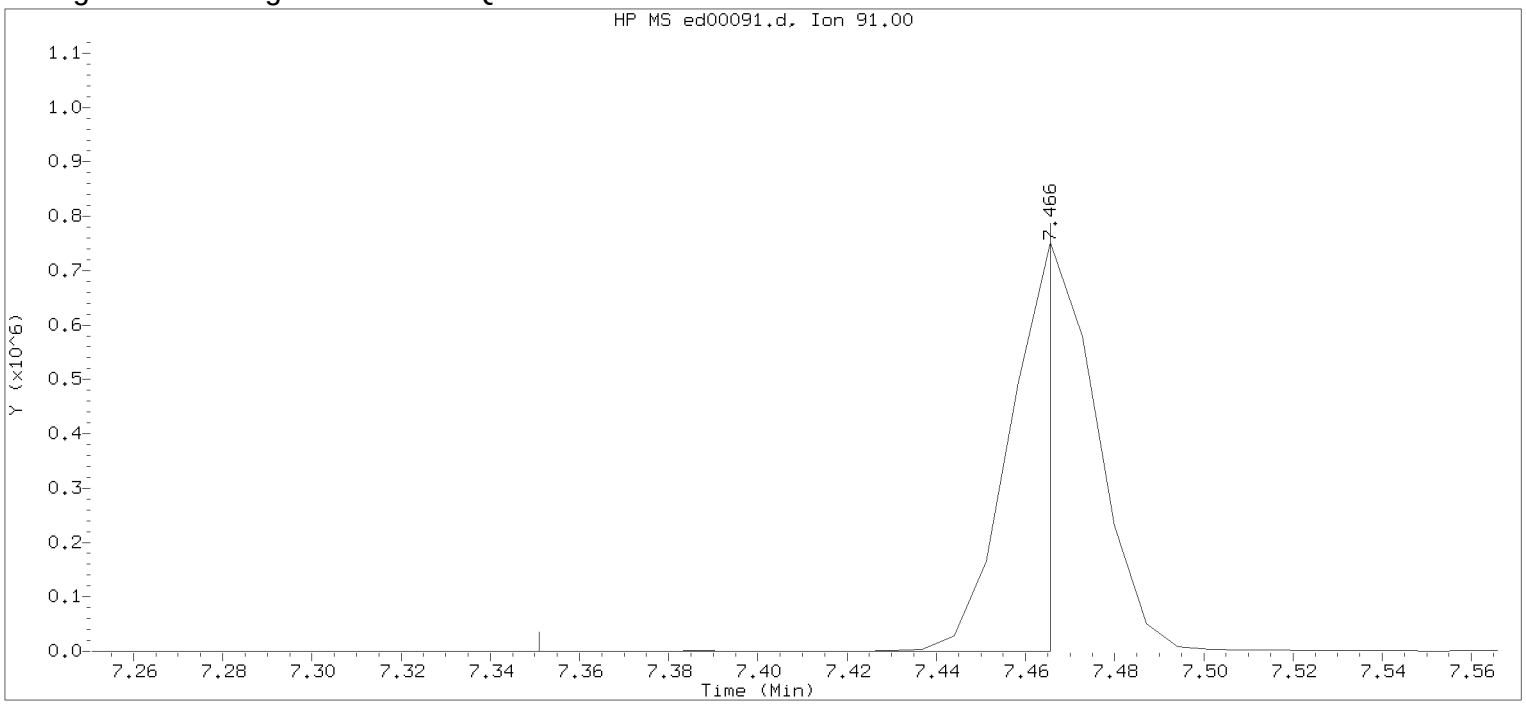
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

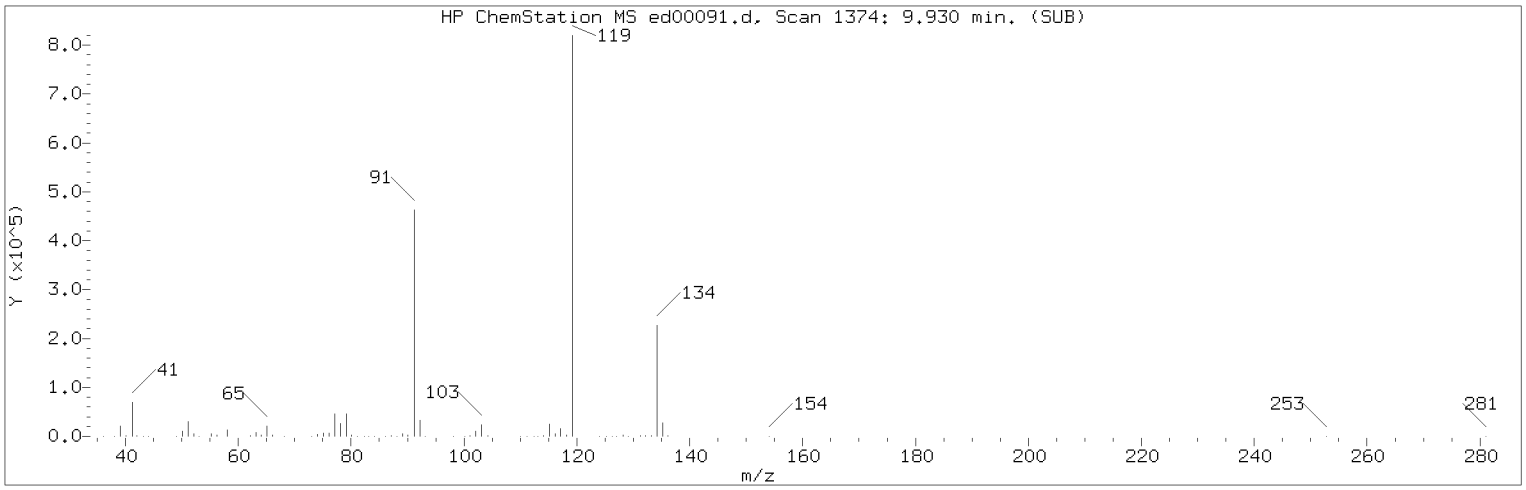
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 04-APR-2017 11:56
Date, time and analyst ID of latest file update: 06-Apr-2017 01:31 Unknown

Sample Name: VSTD010 Lab Sample ID: VSTD010

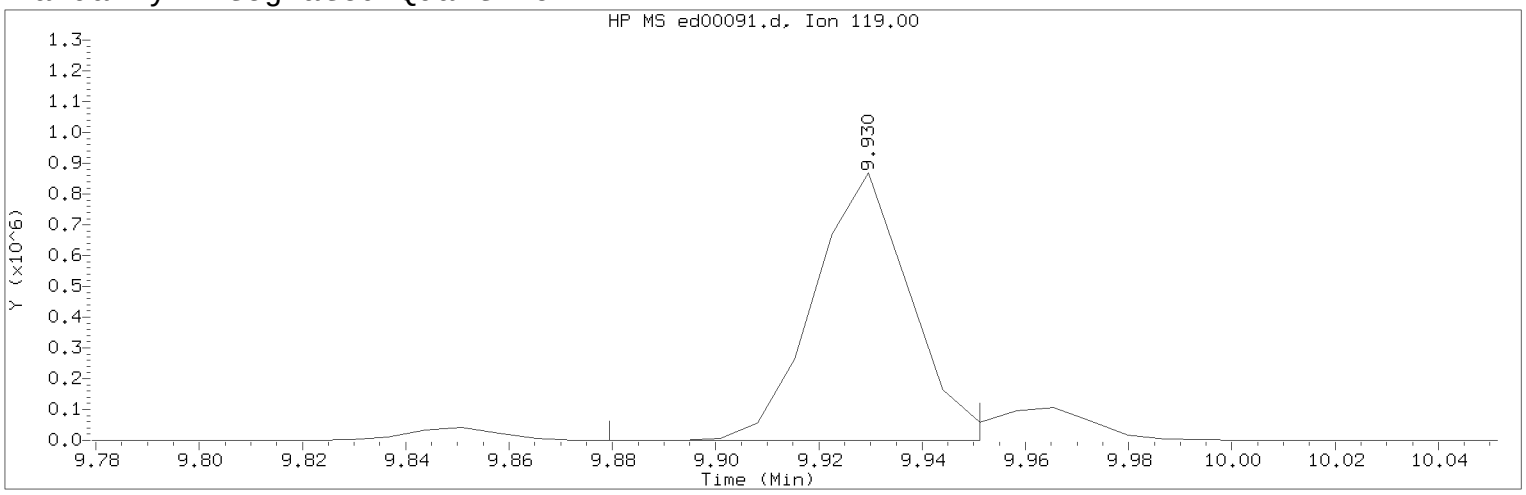
Compound Number : 61
Compound Name : Toluene
Scan Number : 1030
Retention Time (minutes): 7.466
Quant Ion : 91.00
Area : 459404
Concentration (ppb(v)) : 4.6775
Integration start scan : 1013 Integration stop scan: 1029
Y at integration start : 247 Y at integration end: 247

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Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 02:11 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

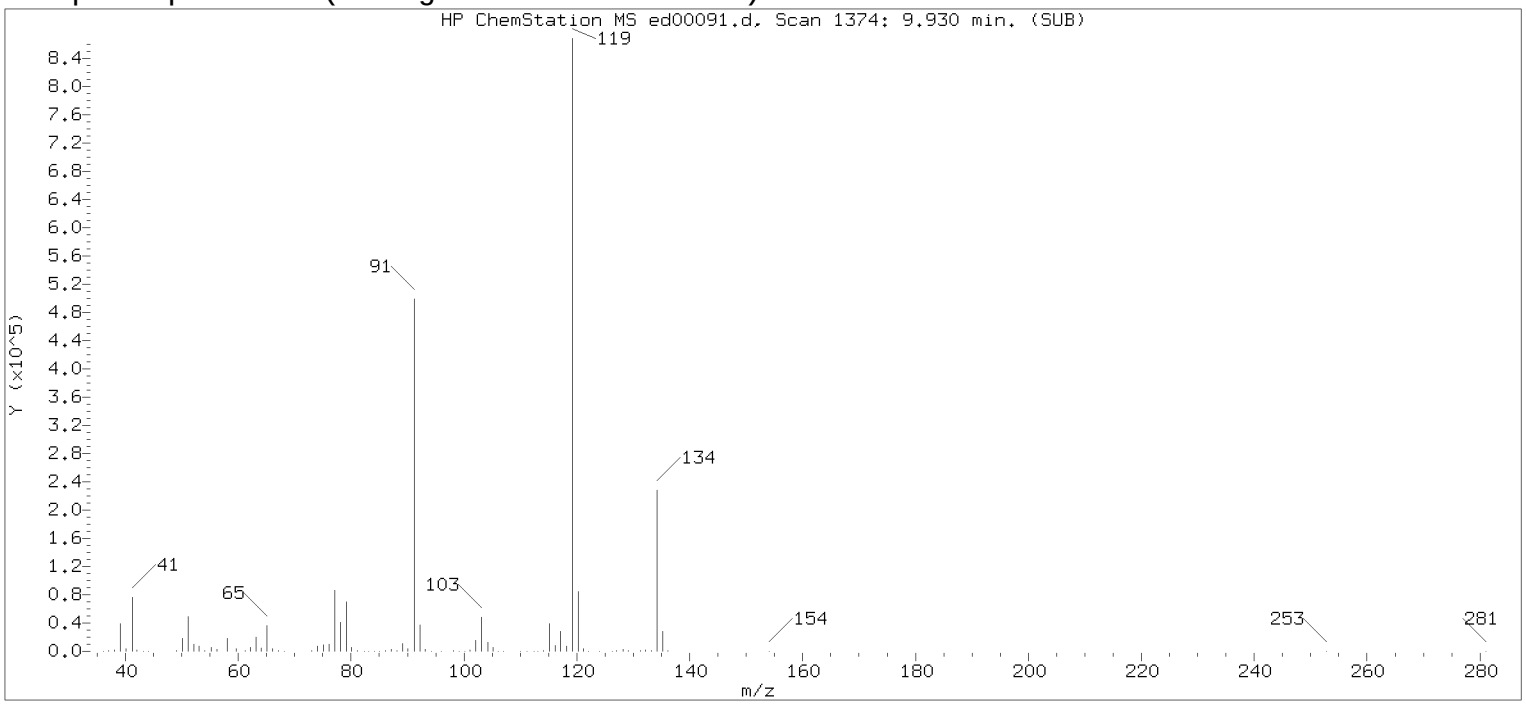
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1374
Retention Time (minutes): 9.930
Quant Ion : 119.00
Area (flag) : 1121937M
Concentration (ppb(v)) : 10.2360
Integration start scan : 1366 Integration stop scan: 1376
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

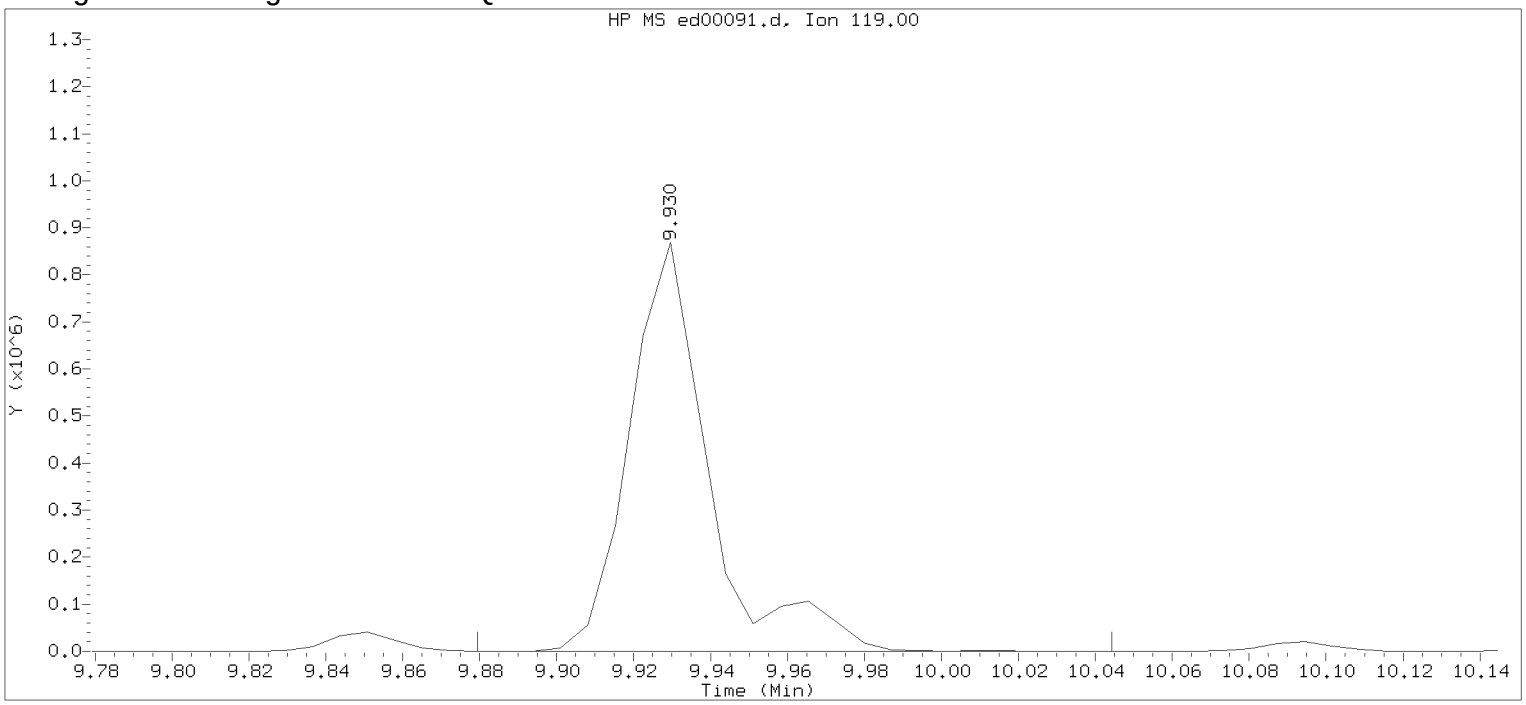
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00091.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 13:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 04-APR-2017 11:56
Date, time and analyst ID of latest file update: 06-Apr-2017 01:31 Unknown

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1374
Retention Time (minutes): 9.930
Quant Ion : 119.00
Area : 1246840
Concentration (ppb(v)) : 11.3756
Integration start scan : 1366 Integration stop scan: 1389
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 04/06/2017 at 02:11.
Target 3.5 esignature user ID: jeb07445

Raw QC Data

Volatile Organics in Air by GC/MS

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00092.d Injection date and time: **06-APR-2017 14:01**
Data file Sample Info. Line: VBLKE55;200;E1709630AA;VBLKE55;0;3;BLANK; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:37 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	215370 (-2)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	817871 (-2)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	800185 (-2)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)			Not Detected					0.5	1
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.5	1
9) Chloroethane	(1)			Not Detected					0.2	1
10) Bromoethene	(1)			Not Detected					0.4	2
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.5	1
14) Ethanol	(1)			Not Detected					0.5	2
15) Freon123a	(1)			Not Detected					0.2	1
16) Acrolein	(1)			Not Detected					1	2
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)			Not Detected					0.5	2
20) Methyl Iodide	(1)			Not Detected					0.2	1
21) Carbon Disulfide	(1)			Not Detected					0.5	1
22) Isopropanol	(1)			Not Detected					0.5	2
23) Acetonitrile	(1)			Not Detected					0.5	2
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
26) tert-Butyl Alcohol	(1)			Not Detected					0.5	1
27) Acrylonitrile	(1)			Not Detected					0.5	2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
32) Vinyl Acetate	(1)			Not Detected					1	1
33) Di-Isopropyl Ether	(1)			Not Detected					0.2	1
34) Ethyl Tert-Butyl Ether	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
36) 1,2-Dichloroethene (total)	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)			Not Detected					0.5	2
38) Ethyl Acetate	(1)			Not Detected					0.5	1
39) Methyl Acrylate	(1)			Not Detected					0.2	1
41) Tetrahydrofuran	(1)			Not Detected					0.5	1
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
44) Cyclohexane	(1)			Not Detected					0.2	1

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00092.d Injection date and time: **06-APR-2017 14:01**
Data file Sample Info. Line: VBLKE55;200;E1709630AA;VBLKE55;0;3;BLANK; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:37 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)				Not Detected					0.2	1
46) Benzene	(2)				Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)				Not Detected					0.2	1
48) Isooctane	(2)				Not Detected					0.2	1
49) Tert-Amyl Methyl Ether	(2)				Not Detected					0.2	1
50) Heptane	(2)				Not Detected					0.5	1
52) Trichloroethene	(2)				Not Detected					0.2	1
53) Ethyl Acrylate	(2)				Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)				Not Detected					0.2	1
55) Dibromomethane	(2)				Not Detected					0.2	1
56) 1,4-Dioxane	(2)				Not Detected					0.5	1
57) Methyl Methacrylate	(2)				Not Detected					0.2	1
58) Bromodichloromethane	(2)				Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)				Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)				Not Detected					0.5	2
61) Toluene	(3)				Not Detected					0.2	1
62) Octane	(3)				Not Detected					0.5	1
63) trans-1,3-Dichloropropene	(3)				Not Detected					0.2	1
64) 1,3-Dichloropropene (total)	(3)				Not Detected					0.2	1
65) Ethyl Methacrylate	(3)				Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)				Not Detected					0.2	1
67) Tetrachloroethene	(3)				Not Detected					0.2	1
68) 2-Hexanone	(3)				Not Detected					0.5	2
69) Dibromochloromethane	(3)				Not Detected					0.2	1
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
77) Xylene (total)	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
84) n-Propylbenzene	(3)				Not Detected					0.5	1
85) 2-Chlorotoluene	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
88) Alpha Methyl Styrene	(3)				Not Detected					0.2	1
89) tert-Butylbenzene	(3)				Not Detected					0.5	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
91) sec-Butylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
94) p-Isopropyltoluene	(3)				Not Detected					0.2	1
95) Benzyl Chloride	(3)				Not Detected					0.5	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
97) n-Butylbenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.5	2
99) 1,2-Dibromo-3-chloropropane	(3)				Not Detected					0.2	1
100) 1,2,4-Trichlorobenzene	(3)				Not Detected					0.5	2

Digitally signed by Jacob E. Bailey on 04/06/2017 at 03:37. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00092.d Injection date and time: **06-APR-2017 14:01**
Data file Sample Info. Line: VBLKE55;200;E1709630AA;VBLKE55;0;3;BLANK; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:37 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

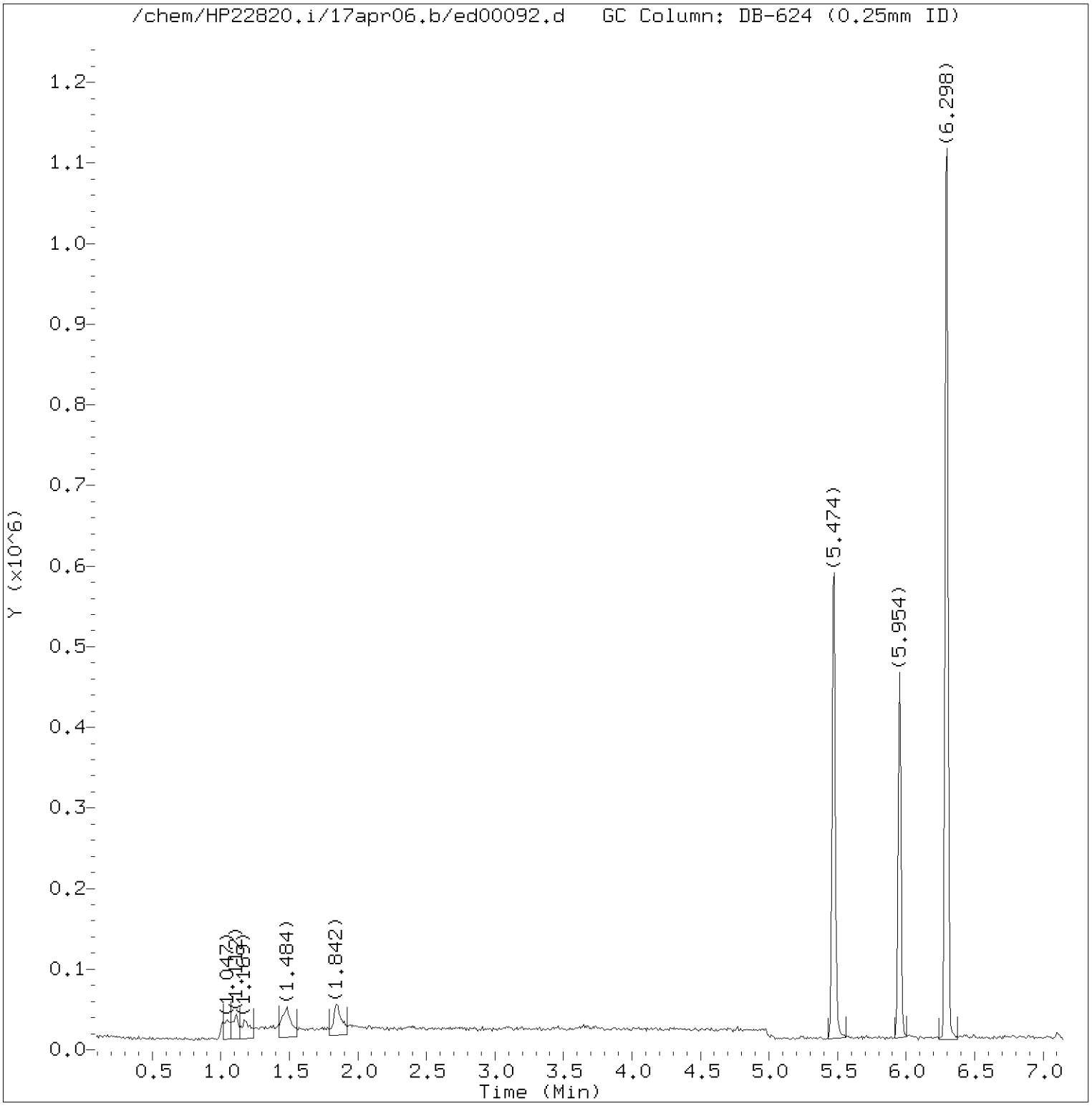
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)				Not Detected					0.4	2
102) Naphthalene	(3)				Not Detected					0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 04/06/2017 at 03:37. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

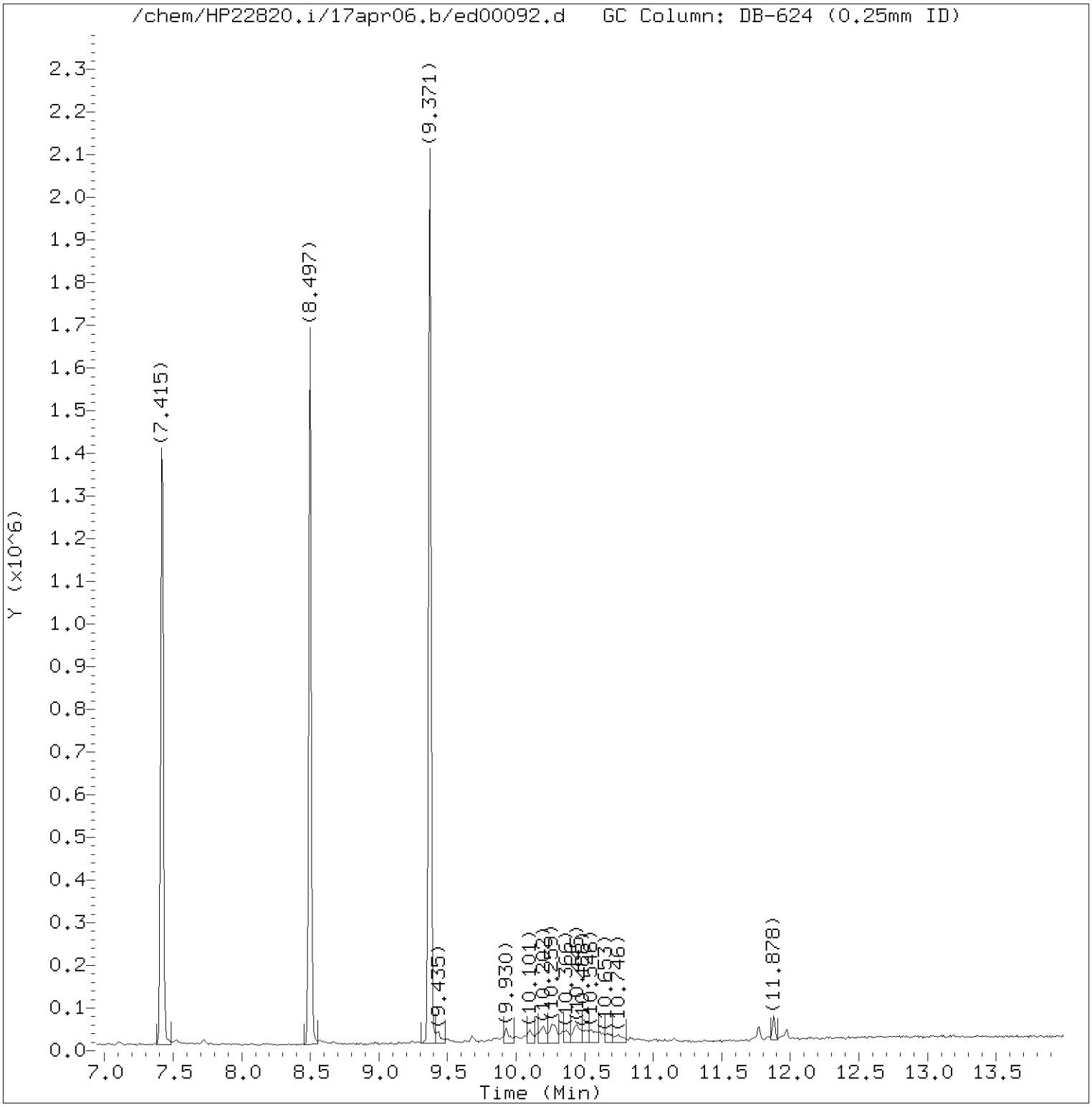
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00092.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:01 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:37 jeb07445

Sample Name: VBLKE55 Lab Sample ID: VBLKE55

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00092.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:01 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:37 jeb07445

Sample Name: VBLKE55 Lab Sample ID: VBLKE55

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00092.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:01 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:37 jeb07445

Sample Name: VBLKE55 Lab Sample ID: VBLKE55

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.474	130	215370	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	817871	10.000
71)*Chlorobenzene-d5	(3)	8.497	117	800185	10.000

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906232DUP
Canister ID:	1392	Lab File ID:	ed00115.d
Pressure Received:	25.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	04:14
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	4.1	J
75-45-6	Chlorodifluoromethane	0.71	U
76-14-2	Freon 114	1.4	U
74-87-3	Chloromethane	0.41	U
75-01-4	Vinyl Chloride	0.51	U
106-99-0	1,3-Butadiene	0.88	U
74-83-9	Bromomethane	0.78	U
75-00-3	Chloroethane	0.53	U
75-43-4	Dichlorofluoromethane	0.84	U
75-69-4	Trichlorofluoromethane	3.0	J
109-66-0	Pentane	0.89	J
75-35-4	1,1-Dichloroethene	0.79	U
76-13-1	Freon 113	3.8	U
67-64-1	Acetone	48	
75-15-0	Carbon Disulfide	1.6	U
107-05-1	3-Chloropropene	0.63	U
75-09-2	Methylene Chloride	0.69	U
156-60-5	trans-1,2-Dichloroethene	0.79	U
1634-04-4	Methyl t-Butyl Ether	0.72	U
110-54-3	Hexane	0.70	U
75-34-3	1,1-Dichloroethane	0.81	U
156-59-2	cis-1,2-Dichloroethene	0.79	U
78-93-3	2-Butanone	11	
67-66-3	Chloroform	0.98	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906232DUP
Canister ID:	1392	Lab File ID:	ed00115.d
Pressure Received:	25.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	04:14
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.3	U
71-43-2	Benzene	0.64	U
107-06-2	1,2-Dichloroethane	0.81	U
540-84-1	Isooctane	0.93	U
142-82-5	Heptane	0.82	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	0.92	U
74-95-3	Dibromomethane	1.4	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-Pentanone	2.0	U
108-88-3	Toluene	1.4	J
111-65-9	Octane	0.93	U
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	1.1	U
127-18-4	Tetrachloroethene	13	
591-78-6	2-Hexanone	2.5	J
124-48-1	Dibromochloromethane	1.7	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	0.92	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
100-41-4	Ethylbenzene	0.87	U
179601-23-1	m/p-Xylene	0.87	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	CANISTER	Lab Sample ID:	8906232DUP
Canister ID:	1392	Lab File ID:	ed00115.d
Pressure Received:	25.7 psia	Date Collected:	03/22/2017
Final Pressure:	12.8 psia	Date Received:	03/28/2017
Nominal Volume:	200 cc	Analyzed Date:	04/07/2017
Injection Volume:	400 cc	Analyzed Time:	04:14
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
95-47-6	o-Xylene	0.87	U
100-42-5	Styrene	0.85	U
75-25-2	Bromoform	2.1	U
98-82-8	Cumene	0.98	U
108-86-1	Bromobenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.2	U
622-96-8	4-Ethyltoluene	0.98	U
108-67-8	1,3,5-Trimethylbenzene	0.98	U
95-63-6	1,2,4-Trimethylbenzene	0.98	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
67-72-1	Hexachloroethane	1.9	U

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

DKELA

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air

8906232

Data file: /chem/HP22820.i/17apr06.b/ed00115.d Injection date and time: **07-APR-2017 04:14**
Data file Sample Info. Line: 8906232;400;E1709630AA;DKELA;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:57 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.7 psia Canister Pressure before dilution (Ya): 12.8 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Analysis Comments:DUP

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	190363 (-14)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	749685 (-10)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	734933 (-10)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.649(-0.000)	85	40201	0.839	0.84		J	0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	2.774(-0.000)	101	27450	0.532	0.53		J	0.2	1
13) Pentane	(1)	2.874(-0.000)	43	8119	0.301	0.30		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.533(0.000)	43	440198	20.364	20.36			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	35780	3.616	3.62			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)			Not Detected					0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	7.465(0.000)	91	32744	0.369	0.37		J	0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	7.874(0.000)	166	97404	1.865	1.87			0.2	1
68) 2-Hexanone	(3)	7.945(0.000)	43	22776	0.610	0.61		J	0.5	2

Digitally signed by Jacob E. Bailey on 04/06/2017 at 23:59. Target 3.5 esignature user ID: jeb07445

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00115.d Injection date and time: **07-APR-2017 04:14**
Data file Sample Info. Line: 8906232;400;E1709630AA;DKELA;0;0;SAMPLE; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 23:57 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **292**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

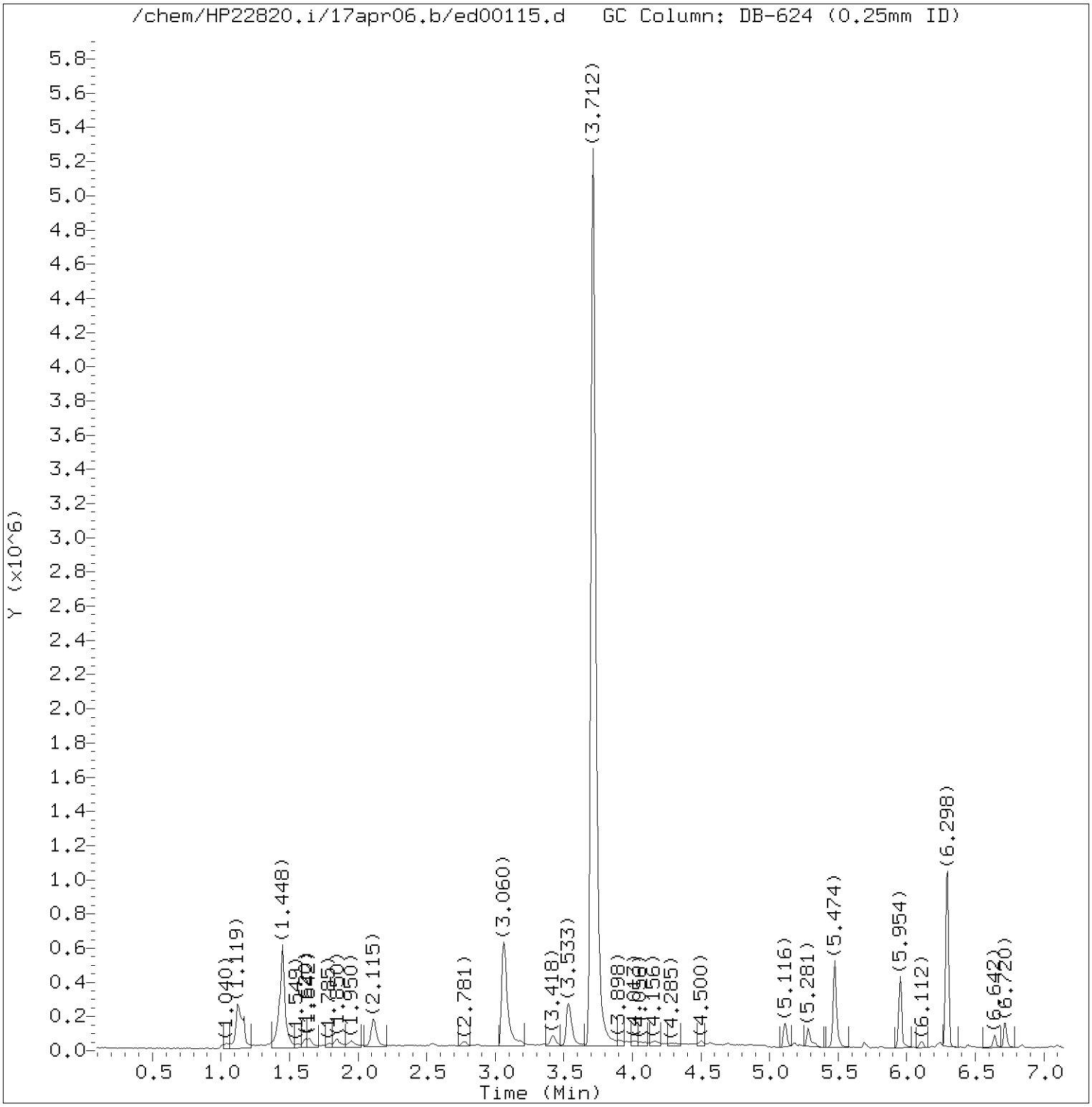
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 25.7 psia Canister Pressure before dilution (Ya): 12.8 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 400 cc

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
69) Dibromochloromethane	(3)				Not Detected					0.2	1
70) 1,2-Dibromoethane	(3)				Not Detected					0.2	1
72) Chlorobenzene	(3)				Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.2	1
74) Ethylbenzene	(3)				Not Detected					0.2	1
75) m/p-Xylene	(3)				Not Detected					0.2	1
76) o-Xylene	(3)				Not Detected					0.2	1
78) Styrene	(3)				Not Detected					0.2	1
79) Bromoform	(3)				Not Detected					0.2	1
80) Cumene	(3)				Not Detected					0.2	1
81) Bromobenzene	(3)				Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)				Not Detected					0.2	1
86) 4-Ethyltoluene	(3)				Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)				Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)				Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)				Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)				Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)				Not Detected					0.2	1
98) Hexachloroethane	(3)				Not Detected					0.2	1

Total number of targets = 62

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Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:13. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

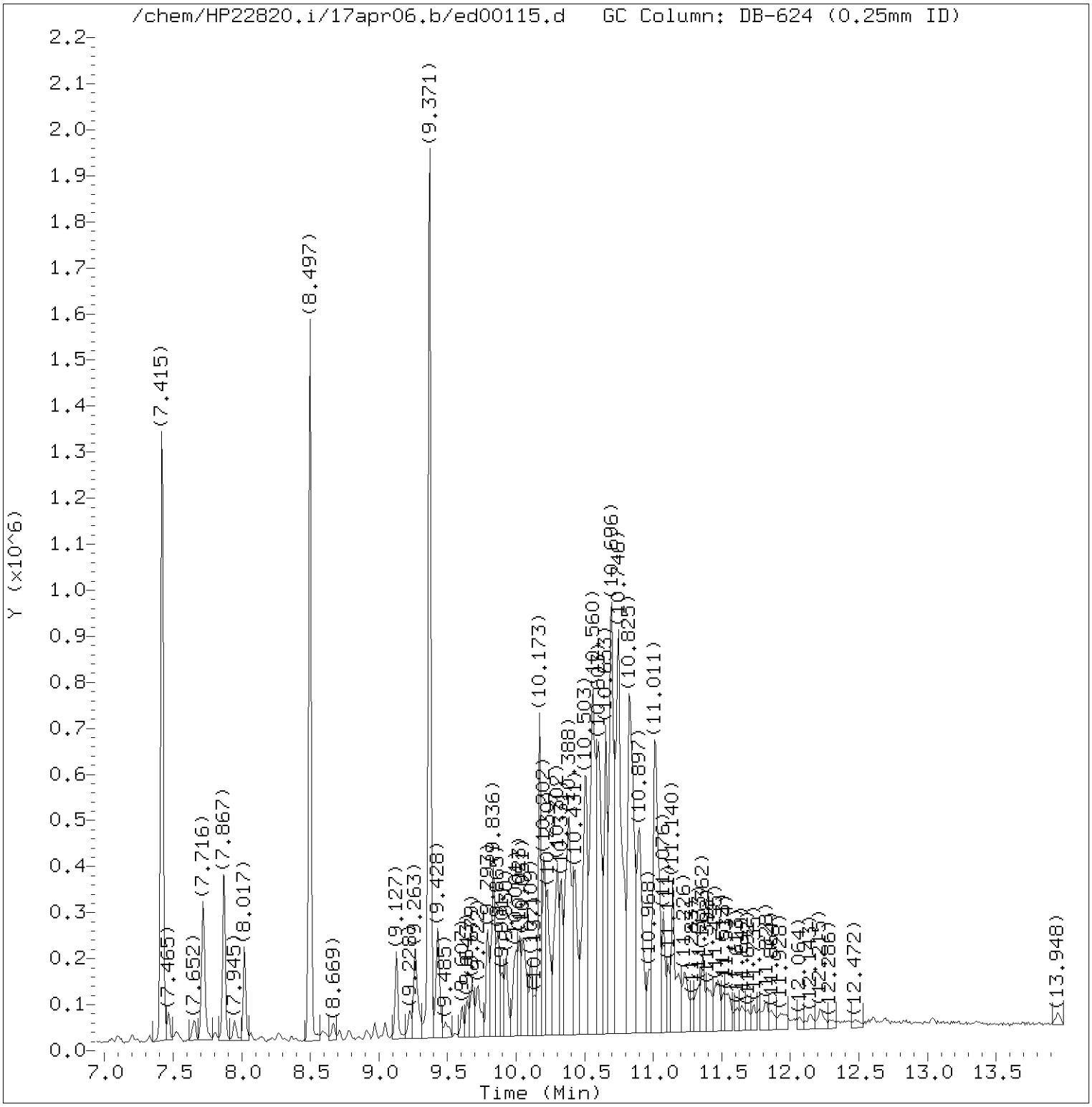
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00115.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 04:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:57 jeb07445

Sample Name: DKELA Lab Sample ID: 8906232

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00115.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 04:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:57 jeb07445

Sample Name: DKELA Lab Sample ID: 8906232

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00115.d Instrument ID: HP22820.i
Injection date and time: 07-APR-2017 04:14 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: 292
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 23:57 jeb07445

Sample Name: DKELA Lab Sample ID: 8906232

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.649	85	40201	0.839
12) Trichlorofluoromethane	(1)	2.774	101	27450	0.532
13) Pentane	(1)	2.874	43	8119	0.301
19) Acetone	(1)	3.533	43	440198	20.364
37) 2-Butanone	(1)	5.281	72	35780	3.616
40)*Bromochloromethane	(1)	5.474	130	190363	10.000
51)*1,4-Difluorobenzene	(2)	6.298	114	749685	10.000
61) Toluene	(3)	7.465	91	32744	0.369
67) Tetrachloroethene	(3)	7.874	166	97404	1.865
68) 2-Hexanone	(3)	7.945	43	22776	0.610
71)*Chlorobenzene-d5	(3)	8.497	117	734933	10.000

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 23:59.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSE55
Canister ID:	N/A	Lab File ID:	ed00093.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	14:44
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
115-07-1	Propene	19	
75-71-8	Dichlorodifluoromethane	58	
75-45-6	Chlorodifluoromethane	42	
76-14-2	Freon 114	80	
74-87-3	Chloromethane	22	
75-01-4	Vinyl Chloride	30	
106-99-0	1,3-Butadiene	24	
74-83-9	Bromomethane	45	
75-00-3	Chloroethane	30	
593-60-2	Bromoethene	50	
75-43-4	Dichlorofluoromethane	51	
75-69-4	Trichlorofluoromethane	66	
109-66-0	Pentane	31	
64-17-5	Ethanol	22	
107-02-8	Acrolein	26	
75-35-4	1,1-Dichloroethene	47	
76-13-1	Freon 113	85	
67-64-1	Acetone	29	
74-88-4	Methyl Iodide	63	
75-15-0	Carbon Disulfide	34	
67-63-0	Isopropanol	33	
75-05-8	Acetonitrile	17	
107-05-1	3-Chloropropene	42	
75-09-2	Methylene Chloride	44	

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSE55
Canister ID:	N/A	Lab File ID:	ed00093.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	14:44
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-65-0	tert-Butyl Alcohol	41	
107-13-1	Acrylonitrile	24	
156-60-5	trans-1,2-Dichloroethene	45	
1634-04-4	Methyl t-Butyl Ether	40	
110-54-3	Hexane	39	
75-34-3	1,1-Dichloroethane	46	
108-05-4	Vinyl Acetate	49	
108-20-3	Di-Isopropyl Ether	46	
637-92-3	Ethyl Tert-Butyl Ether	47	
156-59-2	cis-1,2-Dichloroethene	45	
540-59-0	1,2-Dichloroethene (total)	90	
78-93-3	2-Butanone	35	
141-78-6	Ethyl Acetate	36	
96-33-3	Methyl Acrylate	40	
109-99-9	Tetrahydrofuran	33	
67-66-3	Chloroform	55	
71-55-6	1,1,1-Trichloroethane	63	
110-82-7	Cyclohexane	38	
56-23-5	Carbon Tetrachloride	74	
71-43-2	Benzene	35	
107-06-2	1,2-Dichloroethane	47	
540-84-1	Isooctane	51	
994-05-8	Tert-Amyl Methyl Ether	46	
142-82-5	Heptane	45	

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSE55
Canister ID:	N/A	Lab File ID:	ed00093.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	14:44
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
79-01-6	Trichloroethene	65	
140-88-5	Ethyl Acrylate	46	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	80	
123-91-1	1,4-Dioxane	39	
80-62-6	Methyl Methacrylate	44	
75-27-4	Bromodichloromethane	75	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-Pentanone	45	
108-88-3	Toluene	41	
111-65-9	Octane	49	
10061-02-6	trans-1,3-Dichloropropene	49	
542-75-6	1,3-Dichloropropene (total)	98	
97-63-2	Ethyl Methacrylate	52	
79-00-5	1,1,2-Trichloroethane	60	
127-18-4	Tetrachloroethene	77	
591-78-6	2-Hexanone	45	
124-48-1	Dibromochloromethane	98	
106-93-4	1,2-Dibromoethane	85	
108-90-7	Chlorobenzene	48	
630-20-6	1,1,1,2-Tetrachloroethane	78	
100-41-4	Ethylbenzene	48	
179601-23-1	m/p-Xylene	50	
95-47-6	o-Xylene	49	

Abbreviations:
U = The compound is less than the limit being reported.
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E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSE55
Canister ID:	N/A	Lab File ID:	ed00093.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	14:44
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
1330-20-7	Xylene (total)	99	
100-42-5	Styrene	48	
75-25-2	Bromoform	120	
98-82-8	Cumene	53	
108-86-1	Bromobenzene	69	
79-34-5	1,1,2,2-Tetrachloroethane	69	
96-18-4	1,2,3-Trichloropropane	65	
103-65-1	n-Propylbenzene	51	
95-49-8	2-Chlorotoluene	56	
622-96-8	4-Ethyltoluene	53	
108-67-8	1,3,5-Trimethylbenzene	53	
98-83-9	Alpha Methyl Styrene	51	
98-06-6	tert-Butylbenzene	60	
95-63-6	1,2,4-Trimethylbenzene	54	
135-98-8	sec-Butylbenzene	61	
541-73-1	1,3-Dichlorobenzene	66	
106-46-7	1,4-Dichlorobenzene	66	
99-87-6	p-Isopropyltoluene	61	
100-44-7	Benzyl Chloride	60	
95-50-1	1,2-Dichlorobenzene	67	
104-51-8	n-Butylbenzene	60	
67-72-1	Hexachloroethane	120	
96-12-8	1,2-Dibromo-3-chloropropane	120	
120-82-1	1,2,4-Trichlorobenzene	93	

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSE55
Canister ID:	N/A	Lab File ID:	ed00093.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	14:44
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
87-68-3	Hexachlorobutadiene	130	
91-20-3	Naphthalene	67	

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00093.d Injection date and time: **06-APR-2017 14:44**
Data file Sample Info. Line: LCSE55;200;E1709630AA;LCSE55;0;3;LCS; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	211806 (-4)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	809076 (-3)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	796585 (-2)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	1.606(0.000)	41	146117	10.989	10.99			0.5	1
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	629881	11.810	11.81			0.2	1
3) Chlorodifluoromethane	(1)	1.663(0.000)	51	332674	11.984	11.98			0.2	1
4) Freon 114	(1)	1.771(0.000)	85	639146	11.444	11.44			0.2	1
5) Chloromethane	(1)	1.850(0.000)	50	149004	10.412	10.41			0.2	1
6) Vinyl Chloride	(1)	1.964(0.000)	62	233868	11.654	11.65			0.2	1
7) 1,3-Butadiene	(1)	2.000(0.000)	54	156764	10.628	10.63			0.4	2
8) Bromomethane	(1)	2.344(0.000)	94	240428	11.711	11.71			0.5	1
9) Chloroethane	(1)	2.466(0.001)	64	127065	11.365	11.36			0.2	1
10) Bromoethene	(1)	2.695(0.000)	106	257024	11.509	11.51			0.4	2
11) Dichlorofluoromethane	(1)	2.731(0.000)	67	531697	12.149	12.15			0.2	1
12) Trichlorofluoromethane	(1)	2.766(0.000)	101	671922	11.709	11.71			0.2	1
13) Pentane	(1)	2.867(0.000)	43	319346	10.642	10.64			0.5	1
14) Ethanol	(1)	3.074(0.000)	45	59754	11.863	11.86			0.5	2
15) Freon123a	(1)	3.203(0.000)	67	488523	11.511	11.51			0.2	1
16) Acrolein	(1)	3.340(0.000)	56	87269	11.285	11.28			1	2
17) 1,1-Dichloroethene	(1)	3.425(0.000)	61	366258	11.805	11.81			0.2	1
18) Freon 113	(1)	3.440(0.000)	103	375582	11.113	11.11			0.5	2
19) Acetone	(1)	3.526(0.002)	43	289937	12.055	12.06			0.5	2
20) Methyl Iodide	(1)	3.604(0.000)	142	685332	10.865	10.86			0.2	1
21) Carbon Disulfide	(1)	3.655(0.000)	76	679145	11.050	11.05			0.5	1
22) Isopropanol	(1)	3.712(0.000)	45	290382	13.575	13.58			0.5	2
23) Acetonitrile	(1)	3.870(0.000)	40	110154	9.880	9.88			0.5	2
24) 3-Chloropropene	(1)	3.862(0.000)	76	124854	13.424	13.42			0.2	1
25) Methylene Chloride	(1)	4.013(0.000)	84	234234	12.803	12.80			0.2	1
26) tert-Butyl Alcohol	(1)	4.156(0.001)	59	478918	13.575	13.57			0.5	1
27) Acrylonitrile	(1)	4.299(0.001)	53	180249	11.256	11.26			0.5	2
28) trans-1,2-Dichloroethene	(1)	4.292(0.001)	61	324701	11.284	11.28			0.2	1
29) Methyl t-Butyl Ether	(1)	4.292(0.001)	73	696291	11.159	11.16			0.2	1
30) Hexane	(1)	4.557(0.002)	57	342645	10.997	11.00			0.2	1
31) 1,1-Dichloroethane	(1)	4.722(0.001)	63	428629	11.328	11.33			0.2	1
32) Vinyl Acetate	(1)	4.779(0.002)	86	71869	14.020	14.02			1	1
33) Di-Isopropyl Ether	(1)	4.779(0.001)	45	667804	11.077	11.08			0.2	1
34) Ethyl Tert-Butyl Ether	(1)	5.116(0.001)	59	704310	11.158	11.16			0.2	1
35) cis-1,2-Dichloroethene	(1)	5.259(0.001)	61	310840	11.333	11.33			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	635541	22.617	22.62			0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	129170	11.732	11.73			0.5	2
38) Ethyl Acetate	(1)	5.331(0.001)	70	59020	9.981	9.98			0.5	1
39) Methyl Acrylate	(1)	5.360(0.001)	55	377355	11.351	11.35			0.2	1
41) Tetrahydrofuran	(1)	5.503(0.001)	42	224102	11.299	11.30			0.5	1
42) Chloroform	(1)	5.538(0.001)	83	539834	11.321	11.32			0.2	1
43) 1,1,1-Trichloroethane	(1)	5.682(0.001)	97	554652	11.503	11.50			0.2	1
44) Cyclohexane	(1)	5.710(0.001)	56	364479	11.165	11.16			0.2	1

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00093.d Injection date and time: **06-APR-2017 14:44**
Data file Sample Info. Line: LCSE55;200;E1709630AA;LCSE55;0;3;LCS; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	5.811(0.001)	117	587450	11.733	11.73			0.2	1
46) Benzene	(2)	5.990(0.000)	78	822834	10.963	10.96			0.2	1
47) 1,2-Dichloroethane	(2)	6.011(0.000)	62	329715	11.661	11.66			0.2	1
48) Isooctane	(2)	6.040(0.000)	57	1127729	10.921	10.92			0.2	1
49) Tert-Amyl Methyl Ether	(2)	6.069(0.000)	73	745946	10.954	10.95			0.2	1
50) Heptane	(2)	6.176(0.000)	43	372339	10.889	10.89			0.5	1
52) Trichloroethene	(2)	6.491(-0.000)	130	465512	12.035	12.04			0.2	1
53) Ethyl Acrylate	(2)	6.577(-0.000)	55	486287	11.140	11.14			0.2	1
54) 1,2-Dichloropropane	(2)	6.678(-0.000)	63	277168	10.793	10.79			0.2	1
55) Dibromomethane	(2)	6.771(-0.000)	174	429517	11.281	11.28			0.2	1
56) 1,4-Dioxane	(2)	6.778(-0.000)	88	192842	10.720	10.72			0.5	1
57) Methyl Methacrylate	(2)	6.749(-0.000)	69	270692	10.817	10.82			0.2	1
58) Bromodichloromethane	(2)	6.885(-0.000)	83	548652	11.210	11.21			0.2	1
59) cis-1,3-Dichloropropene	(2)	7.222(-0.000)	75	471894	10.846	10.85			0.2	1
60) 4-Methyl-2-Pentanone	(2)	7.329(-0.000)	43	478117	10.968	10.97			0.5	2
61) Toluene	(3)	7.465(0.000)	91	1046087	10.879	10.88			0.2	1
62) Octane	(3)	7.516(0.000)	43	498444	10.559	10.56			0.5	1
63) trans-1,3-Dichloropropene	(3)	7.630(0.000)	75	401472	10.826	10.83			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	873366	21.673	21.67			0.2	1
65) Ethyl Methacrylate	(3)	7.673(0.000)	69	443777	11.118	11.12			0.2	1
66) 1,1,2-Trichloroethane	(3)	7.773(0.000)	97	352656	10.976	10.98			0.2	1
67) Tetrachloroethene	(3)	7.874(0.000)	166	645998	11.413	11.41			0.2	1
68) 2-Hexanone	(3)	7.945(0.000)	43	444817	10.988	10.99			0.5	2
69) Dibromochloromethane	(3)	8.074(0.000)	127	479314	11.464	11.46			0.2	1
70) 1,2-Dibromoethane	(3)	8.167(0.000)	107	559015	11.102	11.10			0.2	1
72) Chlorobenzene	(3)	8.518(-0.000)	112	868036	10.527	10.53			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)	8.576(-0.000)	131	470897	11.363	11.36			0.2	1
74) Ethylbenzene	(3)	8.583(-0.000)	91	1363925	11.070	11.07			0.2	1
75) m/p-Xylene	(3)	8.669(-0.000)	91	1129762	11.609	11.61			0.2	1
76) o-Xylene	(3)	8.970(-0.000)	91	1066145	11.304	11.30			0.2	1
77) Xylene (total)	(3)		91	2195907	22.913	22.91			0.2	1
78) Styrene	(3)	8.984(-0.000)	104	798619	11.193	11.19			0.2	1
79) Bromoform	(3)	9.142(-0.000)	173	596675	11.283	11.28			0.2	1
80) Cumene	(3)	9.242(-0.000)	105	1431125	10.781	10.78			0.2	1
81) Bromobenzene	(3)	9.492(-0.000)	156	544893	10.718	10.72			0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	9.471(-0.000)	83	629399	10.115	10.11			0.2	1
83) 1,2,3-Trichloropropane	(3)	9.514(-0.000)	110	224471	10.802	10.80			0.2	1
84) n-Propylbenzene	(3)	9.550(-0.000)	120	419771	10.357	10.36			0.5	1
85) 2-Chlorotoluene	(3)	9.629(-0.000)	126	393483	10.774	10.77			0.2	1
86) 4-Ethyltoluene	(3)	9.629(0.000)	105	1404517	10.716	10.72			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	9.672(0.000)	105	1173757	10.775	10.78			0.2	1
88) Alpha Methyl Styrene	(3)	9.844(0.000)	118	547911	10.561	10.56			0.2	1
89) tert-Butylbenzene	(3)	9.922(0.000)	119	1177744M	10.975	10.98			0.5	1
90) 1,2,4-Trimethylbenzene	(3)	9.958(0.000)	105	1128995	10.956	10.96			0.2	1
91) sec-Butylbenzene	(3)	10.087(0.000)	105	1665369	11.027	11.03			0.2	1
92) 1,3-Dichlorobenzene	(3)	10.194(-0.000)	146	853364	10.946	10.95			0.2	1
93) 1,4-Dichlorobenzene	(3)	10.259(-0.000)	146	863951	10.922	10.92			0.2	1
94) p-Isopropyltoluene	(3)	10.194(-0.000)	119	1433724	11.181	11.18			0.2	1
95) Benzyl Chloride	(3)	10.359(0.000)	91	795205	11.676	11.68			0.5	1
96) 1,2-Dichlorobenzene	(3)	10.546(0.000)	146	778307	11.063	11.06			0.2	1
97) n-Butylbenzene	(3)	10.502(0.000)	91	1166536	10.972	10.97			0.2	1
98) Hexachloroethane	(3)	10.732(0.000)	117	371471	12.412	12.41			0.5	2
99) 1,2-Dibromo-3-chloropropane	(3)	11.140(0.000)	157	346761	12.600	12.60			0.2	1
100) 1,2,4-Trichlorobenzene	(3)	11.763(-0.000)	180	529096	12.537	12.54			0.5	2

M = Compound was manually integrated.

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00093.d Injection date and time: **06-APR-2017 14:44**
Data file Sample Info. Line: LCSE55;200;E1709630AA;LCSE55;0;3;LCS; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

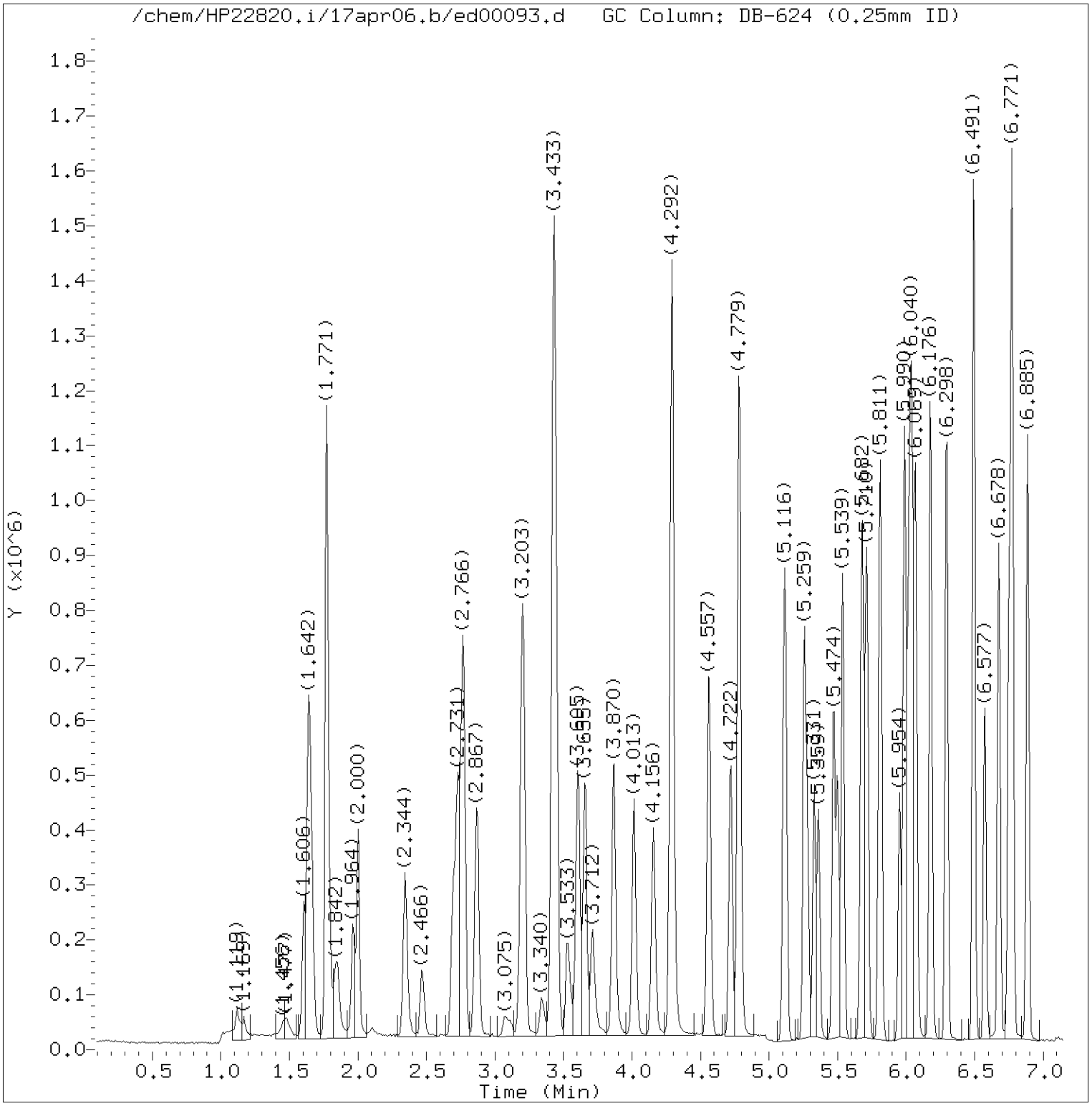
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	11.871(0.000)	225	459245	12.115	12.12			0.4	2
102) Naphthalene	(3)	11.964(0.000)	128	983891	12.855	12.86			0.4	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 04/06/2017 at 03:37. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

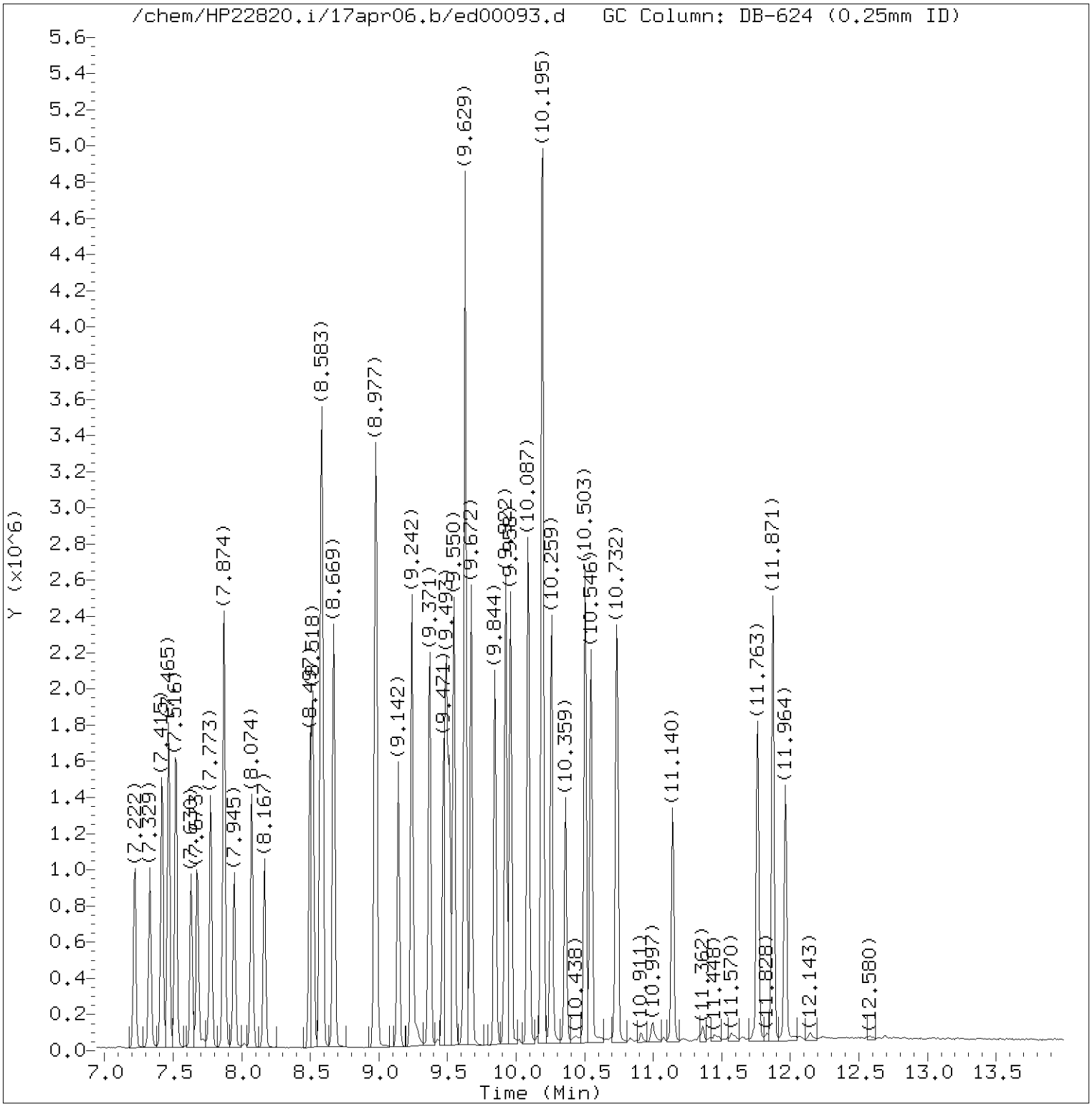
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00093.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:44 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Sample Name: LCSE55 Lab Sample ID: LCSE55

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00093.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:44 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Sample Name: LCSE55 Lab Sample ID: LCSE55

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00093.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:44 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Sample Name: LCSE55 Lab Sample ID: LCSE55

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.606	41	146117	10.989
2) Dichlorodifluoromethane	(1)	1.642	85	629881	11.810
3) Chlorodifluoromethane	(1)	1.663	51	332674	11.984
4) Freon 114	(1)	1.771	85	639146	11.444
5) Chloromethane	(1)	1.850	50	149004	10.412
6) Vinyl Chloride	(1)	1.964	62	233868	11.654
7) 1,3-Butadiene	(1)	2.000	54	156764	10.628
8) Bromomethane	(1)	2.344	94	240428	11.711
9) Chloroethane	(1)	2.466	64	127065	11.365
10) Bromoethene	(1)	2.695	106	257024	11.509
11) Dichlorofluoromethane	(1)	2.731	67	531697	12.149
12) Trichlorofluoromethane	(1)	2.766	101	671922	11.709
13) Pentane	(1)	2.867	43	319346	10.642
14) Ethanol	(1)	3.075	45	59754	11.863
15) Freon123a	(1)	3.203	67	488523	11.511
16) Acrolein	(1)	3.340	56	87269	11.285
17) 1,1-Dichloroethene	(1)	3.425	61	366258	11.805
18) Freon 113	(1)	3.440	103	375582	11.113
19) Acetone	(1)	3.526	43	289937	12.055
20) Methyl Iodide	(1)	3.605	142	685332	10.865
21) Carbon Disulfide	(1)	3.655	76	679145	11.050
22) Isopropanol	(1)	3.712	45	290382	13.575
24) 3-Chloropropene	(1)	3.862	76	124854	13.424
23) Acetonitrile	(1)	3.870	40	110154	9.880
25) Methylene Chloride	(1)	4.013	84	234234	12.803
26) tert-Butyl Alcohol	(1)	4.156	59	478918	13.575
28) trans-1,2-Dichloroethene	(1)	4.292	61	324701	11.284
29) Methyl t-Butyl Ether	(1)	4.292	73	696291	11.159
27) Acrylonitrile	(1)	4.299	53	180249	11.256
30) Hexane	(1)	4.557	57	342645	10.997
31) 1,1-Dichloroethane	(1)	4.722	63	428629	11.328
32) Vinyl Acetate	(1)	4.779	86	71869	14.020
33) Di-Isopropyl Ether	(1)	4.779	45	667804	11.077
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	704310	11.158
35) cis-1,2-Dichloroethene	(1)	5.259	61	310840	11.333
37) 2-Butanone	(1)	5.281	72	129170	11.732
38) Ethyl Acetate	(1)	5.331	70	59020	9.981
39) Methyl Acrylate	(1)	5.359	55	377355	11.351

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00093.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:44 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Sample Name: LCSE55 Lab Sample ID: LCSE55

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.474	130	211806	10.000
41) Tetrahydrofuran	(1)	5.503	42	224102	11.299
42) Chloroform	(1)	5.539	83	539834	11.321
43) 1,1,1-Trichloroethane	(1)	5.682	97	554652	11.503
44) Cyclohexane	(1)	5.710	56	364479	11.165
45) Carbon Tetrachloride	(1)	5.811	117	587450	11.733
46) Benzene	(2)	5.990	78	822834	10.963
47) 1,2-Dichloroethane	(2)	6.011	62	329715	11.661
48) Isooctane	(2)	6.040	57	1127729	10.921
49) Tert-Amyl Methyl Ether	(2)	6.069	73	745946	10.954
50) Heptane	(2)	6.176	43	372339	10.889
51)*1,4-Difluorobenzene	(2)	6.298	114	809076	10.000
52) Trichloroethene	(2)	6.491	130	465512	12.035
53) Ethyl Acrylate	(2)	6.577	55	486287	11.140
36) 1,2-Dichloroethene (total)	(1)		61	635541	22.617
54) 1,2-Dichloropropane	(2)	6.678	63	277168	10.793
57) Methyl Methacrylate	(2)	6.749	69	270692	10.817
55) Dibromomethane	(2)	6.771	174	429517	11.281
56) 1,4-Dioxane	(2)	6.778	88	192842	10.720
58) Bromodichloromethane	(2)	6.885	83	548652	11.210
59) cis-1,3-Dichloropropene	(2)	7.222	75	471894	10.846
60) 4-Methyl-2-Pentanone	(2)	7.329	43	478117	10.968
61) Toluene	(3)	7.465	91	1046087	10.879
62) Octane	(3)	7.516	43	498444	10.559
63) trans-1,3-Dichloropropene	(3)	7.630	75	401472	10.826
65) Ethyl Methacrylate	(3)	7.673	69	443777	11.118
66) 1,1,2-Trichloroethane	(3)	7.773	97	352656	10.976
67) Tetrachloroethene	(3)	7.874	166	645998	11.413
68) 2-Hexanone	(3)	7.945	43	444817	10.988
69) Dibromochloromethane	(3)	8.074	127	479314	11.464
70) 1,2-Dibromoethane	(3)	8.167	107	559015	11.102
71)*Chlorobenzene-d5	(3)	8.497	117	796585	10.000
72) Chlorobenzene	(3)	8.518	112	868036	10.527
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	470897	11.363
74) Ethylbenzene	(3)	8.583	91	1363925	11.070
75) m/p-Xylene	(3)	8.669	91	1129762	11.609
76) o-Xylene	(3)	8.970	91	1066145	11.304
78) Styrene	(3)	8.984	104	798619	11.193

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00093.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:44 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

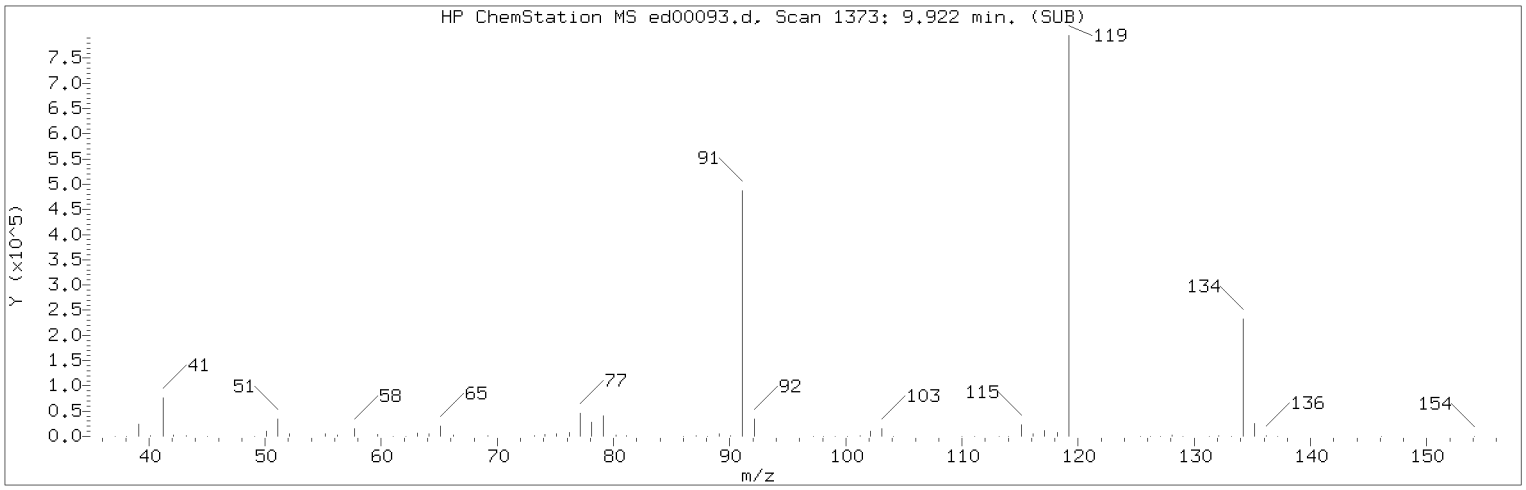
Sample Name: LCSE55 Lab Sample ID: LCSE55

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	596675	11.283
80) Cumene	(3)	9.242	105	1431125	10.781
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	629399	10.115
81) Bromobenzene	(3)	9.493	156	544893	10.718
83) 1,2,3-Trichloropropane	(3)	9.514	110	224471	10.802
84) n-Propylbenzene	(3)	9.550	120	419771	10.357
86) 4-Ethyltoluene	(3)	9.629	105	1404517	10.716
85) 2-Chlorotoluene	(3)	9.629	126	393483	10.774
87) 1,3,5-Trimethylbenzene	(3)	9.672	105	1173757	10.775
88) Alpha Methyl Styrene	(3)	9.844	118	547911	10.561
89) tert-Butylbenzene	(3)	9.922	119	1177744M	10.975
90) 1,2,4-Trimethylbenzene	(3)	9.958	105	1128995	10.956
91) sec-Butylbenzene	(3)	10.087	105	1665369	11.027
92) 1,3-Dichlorobenzene	(3)	10.195	146	853364	10.946
94) p-Isopropyltoluene	(3)	10.195	119	1433724	11.181
93) 1,4-Dichlorobenzene	(3)	10.259	146	863951	10.922
95) Benzyl Chloride	(3)	10.359	91	795205	11.676
97) n-Butylbenzene	(3)	10.503	91	1166536	10.972
96) 1,2-Dichlorobenzene	(3)	10.546	146	778307	11.063
98) Hexachloroethane	(3)	10.732	117	371471	12.412
99) 1,2-Dibromo-3-chloropropane	(3)	11.140	157	346761	12.600
100) 1,2,4-Trichlorobenzene	(3)	11.763	180	529096	12.537
101) Hexachlorobutadiene	(3)	11.871	225	459245	12.115
102) Naphthalene	(3)	11.964	128	983891	12.855
64) 1,3-Dichloropropene (total)	(3)		75	873366	21.673
77) Xylene (total)	(3)		91	2195907	22.913

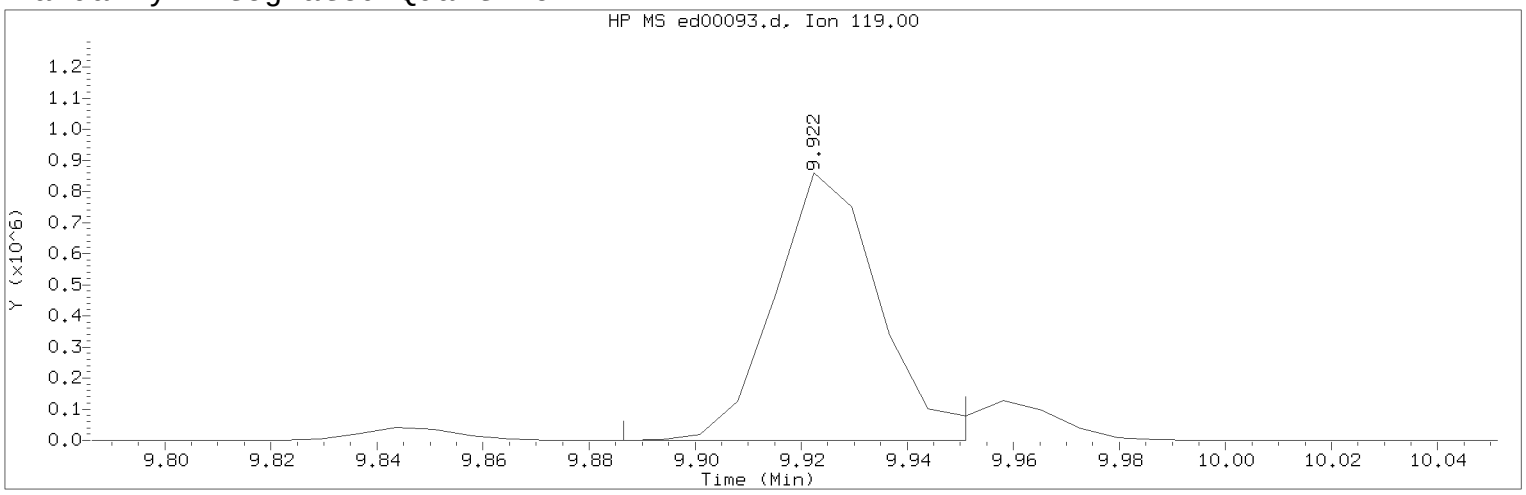
M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00093.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:44 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 jeb07445

Sample Name: LCSE55 Lab Sample ID: LCSE55

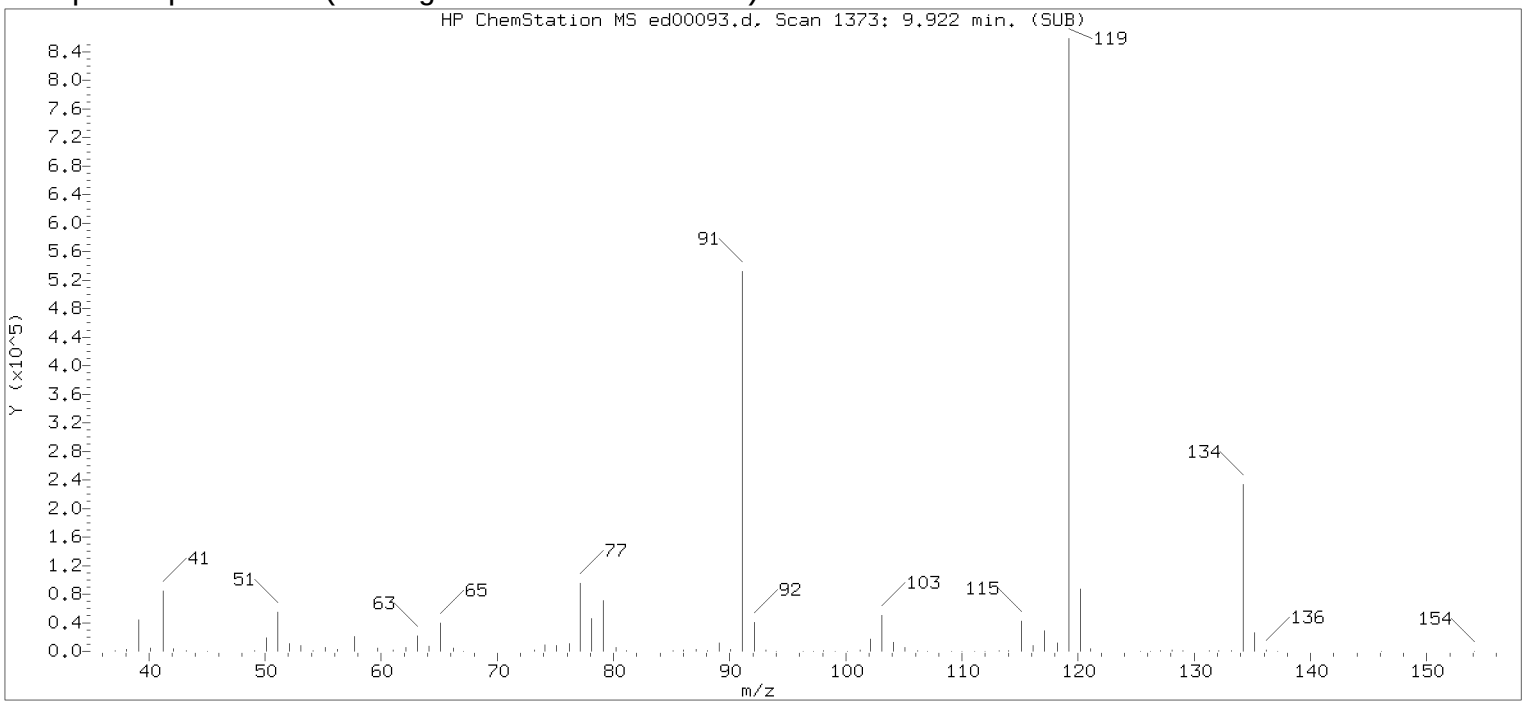
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area (flag) : 1177744M
Concentration (ppb(v)) : 10.9753
Integration start scan : 1367 Integration stop scan: 1376
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

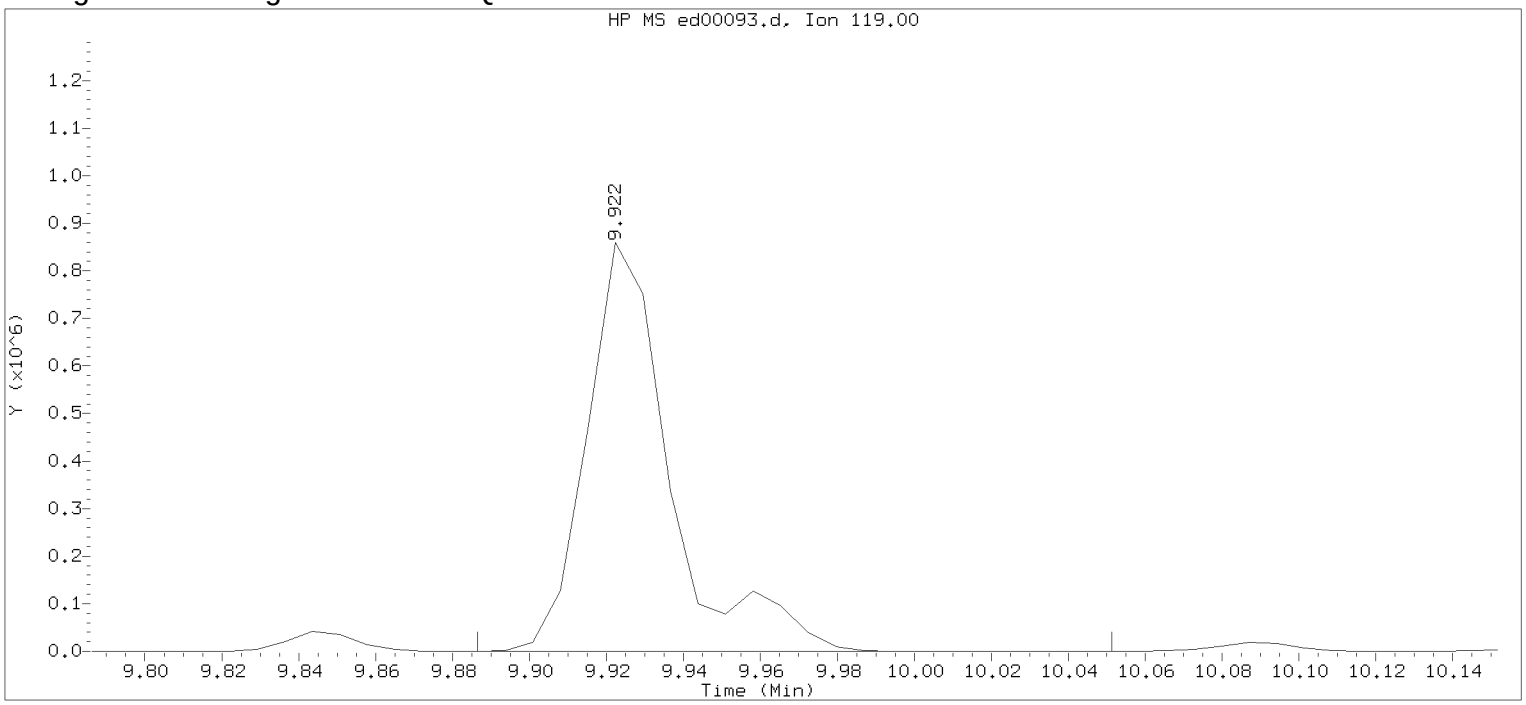
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00093.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 14:44 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:01 Unknown

Sample Name: LCSE55 Lab Sample ID: LCSE55

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1373
Retention Time (minutes): 9.922
Quant Ion : 119.00
Area : 1296912
Concentration (ppb(v)) : 12.0858
Integration start scan : 1367 Integration stop scan: 1390
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSDE55
Canister ID:	N/A	Lab File ID:	ed00094.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	15:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
115-07-1	Propene	18	
75-71-8	Dichlorodifluoromethane	57	
75-45-6	Chlorodifluoromethane	41	
76-14-2	Freon 114	79	
74-87-3	Chloromethane	21	
75-01-4	Vinyl Chloride	29	
106-99-0	1,3-Butadiene	23	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	29	
593-60-2	Bromoethene	51	
75-43-4	Dichlorofluoromethane	50	
75-69-4	Trichlorofluoromethane	64	
109-66-0	Pentane	31	
64-17-5	Ethanol	23	
107-02-8	Acrolein	26	
75-35-4	1,1-Dichloroethene	45	
76-13-1	Freon 113	85	
67-64-1	Acetone	28	
74-88-4	Methyl Iodide	63	
75-15-0	Carbon Disulfide	34	
67-63-0	Isopropanol	34	
75-05-8	Acetonitrile	17	
107-05-1	3-Chloropropene	42	
75-09-2	Methylene Chloride	43	

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSDE55
Canister ID:	N/A	Lab File ID:	ed00094.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	15:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
75-65-0	tert-Butyl Alcohol	41	
107-13-1	Acrylonitrile	24	
156-60-5	trans-1,2-Dichloroethene	44	
1634-04-4	Methyl t-Butyl Ether	39	
110-54-3	Hexane	38	
75-34-3	1,1-Dichloroethane	45	
108-05-4	Vinyl Acetate	49	
108-20-3	Di-Isopropyl Ether	46	
637-92-3	Ethyl Tert-Butyl Ether	46	
156-59-2	cis-1,2-Dichloroethene	44	
540-59-0	1,2-Dichloroethene (total)	89	
78-93-3	2-Butanone	34	
141-78-6	Ethyl Acetate	36	
96-33-3	Methyl Acrylate	40	
109-99-9	Tetrahydrofuran	33	
67-66-3	Chloroform	55	
71-55-6	1,1,1-Trichloroethane	62	
110-82-7	Cyclohexane	38	
56-23-5	Carbon Tetrachloride	72	
71-43-2	Benzene	35	
107-06-2	1,2-Dichloroethane	48	
540-84-1	Isooctane	51	
994-05-8	Tert-Amyl Methyl Ether	46	
142-82-5	Heptane	44	

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSDE55
Canister ID:	N/A	Lab File ID:	ed00094.d
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Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	15:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
79-01-6	Trichloroethene	63	
140-88-5	Ethyl Acrylate	46	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	81	
123-91-1	1,4-Dioxane	40	
80-62-6	Methyl Methacrylate	44	
75-27-4	Bromodichloromethane	76	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-Pentanone	46	
108-88-3	Toluene	42	
111-65-9	Octane	52	
10061-02-6	trans-1,3-Dichloropropene	51	
542-75-6	1,3-Dichloropropene (total)	100	
97-63-2	Ethyl Methacrylate	54	
79-00-5	1,1,2-Trichloroethane	62	
127-18-4	Tetrachloroethene	79	
591-78-6	2-Hexanone	45	
124-48-1	Dibromochloromethane	100	
106-93-4	1,2-Dibromoethane	88	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	81	
100-41-4	Ethylbenzene	50	
179601-23-1	m/p-Xylene	51	
95-47-6	o-Xylene	50	

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSDE55
Canister ID:	N/A	Lab File ID:	ed00094.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	15:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
1330-20-7	Xylene (total)	100	
100-42-5	Styrene	48	
75-25-2	Bromoform	120	
98-82-8	Cumene	55	
108-86-1	Bromobenzene	71	
79-34-5	1,1,2,2-Tetrachloroethane	71	
96-18-4	1,2,3-Trichloropropane	68	
103-65-1	n-Propylbenzene	53	
95-49-8	2-Chlorotoluene	58	
622-96-8	4-Ethyltoluene	56	
108-67-8	1,3,5-Trimethylbenzene	53	
98-83-9	Alpha Methyl Styrene	53	
98-06-6	tert-Butylbenzene	62	
95-63-6	1,2,4-Trimethylbenzene	55	
135-98-8	sec-Butylbenzene	63	
541-73-1	1,3-Dichlorobenzene	68	
106-46-7	1,4-Dichlorobenzene	67	
99-87-6	p-Isopropyltoluene	64	
100-44-7	Benzyl Chloride	62	
95-50-1	1,2-Dichlorobenzene	68	
104-51-8	n-Butylbenzene	63	
67-72-1	Hexachloroethane	120	
96-12-8	1,2-Dibromo-3-chloropropane	120	
120-82-1	1,2,4-Trichlorobenzene	100	

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FORM 01
VOLATILE ORGANICS IN AIR
SAMPLE DATA SHEET

SDG No.: VER01

Sample Media:	N/A	Lab Sample ID:	LCSDE55
Canister ID:	N/A	Lab File ID:	ed00094.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	200 cc	Analyzed Date:	04/06/2017
Injection Volume:	200 cc	Analyzed Time:	15:18
Instrument ID:	22820	Dilution Factor:	1

Concentration Units: ug/m3 Limit: MDL

CAS NO.	COMPOUND	CONCENTRATION	Q
87-68-3	Hexachlorobutadiene	140	
91-20-3	Naphthalene	72	

Abbreviations:
U = The compound is less than the limit being reported.
B = The compound was found in blank with a result greater than the limit being reported.
E = The compound exceeded the calibration limit.
D = Analysis of diluted sample.
J = The result is between the MDL and LOQ.

Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00094.d Injection date and time: **06-APR-2017 15:18**
Data file Sample Info. Line: LCSDE55;200;E1709630AA;LCSDE55;0;3;LCSD; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	5.474(-0.007)	752	130	216312 (-2)	10.00		132263 - 308613
51) 1,4-Difluorobenzene	6.298(0.000)	867	114	807952 (-3)	10.00		498384 - 1162896
71) Chlorobenzene-d5	8.497(0.000)	1174	117	778046 (-4)	10.00		488186 - 1139100

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Propene	(1)	1.606(0.000)	41	139721	10.289	10.29			0.5	1
2) Dichlorodifluoromethane	(1)	1.642(0.000)	85	631669	11.597	11.60			0.2	1
3) Chlorodifluoromethane	(1)	1.664(0.000)	51	325154	11.469	11.47			0.2	1
4) Freon 114	(1)	1.771(0.000)	85	646152	11.328	11.33			0.2	1
5) Chloromethane	(1)	1.850(0.000)	50	147766	10.110	10.11			0.2	1
6) Vinyl Chloride	(1)	1.964(0.000)	62	231060	11.274	11.27			0.2	1
7) 1,3-Butadiene	(1)	2.000(0.000)	54	154890	10.282	10.28			0.4	2
8) Bromomethane	(1)	2.344(0.000)	94	237577	11.331	11.33			0.5	1
9) Chloroethane	(1)	2.466(0.001)	64	127123	11.133	11.13			0.2	1
10) Bromoethene	(1)	2.695(0.000)	106	264615	11.602	11.60			0.4	2
11) Dichlorofluoromethane	(1)	2.731(0.000)	67	529767	11.853	11.85			0.2	1
12) Trichlorofluoromethane	(1)	2.767(0.000)	101	671943	11.465	11.47			0.2	1
13) Pentane	(1)	2.867(0.000)	43	322682	10.529	10.53			0.5	1
14) Ethanol	(1)	3.075(0.000)	45	61856	12.024	12.02			0.5	2
15) Freon123a	(1)	3.204(0.000)	67	496771	11.461	11.46			0.2	1
16) Acrolein	(1)	3.340(0.000)	56	88406	11.194	11.19			1	2
17) 1,1-Dichloroethene	(1)	3.426(0.000)	61	362483	11.440	11.44			0.2	1
18) Freon 113	(1)	3.440(0.000)	103	381054	11.040	11.04			0.5	2
19) Acetone	(1)	3.526(0.002)	43	291360	11.862	11.86			0.5	2
20) Methyl Iodide	(1)	3.605(0.000)	142	699626	10.860	10.86			0.2	1
21) Carbon Disulfide	(1)	3.662(-0.000)	76	683925	10.896	10.90			0.5	1
22) Isopropanol	(1)	3.712(0.000)	45	306006	14.008	14.01			0.5	2
23) Acetonitrile	(1)	3.877(-0.000)	40	113500	9.968	9.97			0.5	2
24) 3-Chloropropene	(1)	3.870(-0.000)	76	128114	13.488	13.49			0.2	1
25) Methylene Chloride	(1)	4.013(0.000)	84	233116	12.477	12.48			0.2	1
26) tert-Butyl Alcohol	(1)	4.156(0.000)	59	485126	13.464	13.46			0.5	1
27) Acrylonitrile	(1)	4.300(0.001)	53	181899	11.122	11.12			0.5	2
28) trans-1,2-Dichloroethene	(1)	4.292(0.001)	61	329587	11.215	11.21			0.2	1
29) Methyl t-Butyl Ether	(1)	4.292(0.001)	73	694893	10.905	10.90			0.2	1
30) Hexane	(1)	4.564(0.001)	57	344749	10.834	10.83			0.2	1
31) 1,1-Dichloroethane	(1)	4.722(0.001)	63	426792	11.045	11.04			0.2	1
32) Vinyl Acetate	(1)	4.786(0.001)	86	72213	13.794	13.79			1	1
33) Di-Isopropyl Ether	(1)	4.779(0.001)	45	673911	10.945	10.95			0.2	1
34) Ethyl Tert-Butyl Ether	(1)	5.116(0.001)	59	703810	10.918	10.92			0.2	1
35) cis-1,2-Dichloroethene	(1)	5.259(0.001)	61	313018	11.175	11.17			0.2	1
36) 1,2-Dichloroethene (total)	(1)		61	642605	22.389	22.39			0.2	1
37) 2-Butanone	(1)	5.281(0.001)	72	129326	11.502	11.50			0.5	2
38) Ethyl Acetate	(1)	5.331(0.001)	70	61088	10.116	10.12			0.5	1
39) Methyl Acrylate	(1)	5.360(0.001)	55	385009	11.340	11.34			0.2	1
41) Tetrahydrofuran	(1)	5.503(0.001)	42	228402	11.276	11.28			0.5	1
42) Chloroform	(1)	5.539(0.001)	83	544848	11.188	11.19			0.2	1
43) 1,1,1-Trichloroethane	(1)	5.675(0.002)	97	557459	11.320	11.32			0.2	1
44) Cyclohexane	(1)	5.711(0.001)	56	364207	10.924	10.92			0.2	1

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00094.d Injection date and time: **06-APR-2017 15:18**
Data file Sample Info. Line: LCSDE55;200;E1709630AA;LCSDE55;0;3;LCSD; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
45) Carbon Tetrachloride	(1)	5.811(0.001)	117	588824	11.516	11.52			0.2	1
46) Benzene	(2)	5.990(0.000)	78	829952	11.073	11.07			0.2	1
47) 1,2-Dichloroethane	(2)	6.011(0.000)	62	333553	11.813	11.81			0.2	1
48) Isooctane	(2)	6.033(0.001)	57	1134340	11.000	11.00			0.2	1
49) Tert-Amyl Methyl Ether	(2)	6.069(0.000)	73	751106	11.045	11.04			0.2	1
50) Heptane	(2)	6.176(0.000)	43	363015	10.631	10.63			0.5	1
52) Trichloroethene	(2)	6.491(-0.000)	130	455405	11.791	11.79			0.2	1
53) Ethyl Acrylate	(2)	6.577(-0.000)	55	494692	11.348	11.35			0.2	1
54) 1,2-Dichloropropane	(2)	6.678(-0.000)	63	276128	10.767	10.77			0.2	1
55) Dibromomethane	(2)	6.771(-0.000)	174	434999	11.441	11.44			0.2	1
56) 1,4-Dioxane	(2)	6.778(-0.000)	88	198470	11.049	11.05			0.5	1
57) Methyl Methacrylate	(2)	6.749(-0.000)	69	271153	10.850	10.85			0.2	1
58) Bromodichloromethane	(2)	6.885(-0.000)	83	556322	11.382	11.38			0.2	1
59) cis-1,3-Dichloropropene	(2)	7.222(-0.000)	75	481396	11.080	11.08			0.2	1
60) 4-Methyl-2-Pentanone	(2)	7.329(-0.000)	43	484970	11.140	11.14			0.5	2
61) Toluene	(3)	7.466(0.000)	91	1058352	11.269	11.27			0.2	1
62) Octane	(3)	7.516(0.000)	43	509679	11.055	11.05			0.5	1
63) trans-1,3-Dichloropropene	(3)	7.630(0.000)	75	408996	11.292	11.29			0.2	1
64) 1,3-Dichloropropene (total)	(3)		75	890392	22.372	22.37			0.2	1
65) Ethyl Methacrylate	(3)	7.673(0.000)	69	450895	11.566	11.57			0.2	1
66) 1,1,2-Trichloroethane	(3)	7.774(0.000)	97	356097	11.347	11.35			0.2	1
67) Tetrachloroethene	(3)	7.874(0.000)	166	644513	11.658	11.66			0.2	1
68) 2-Hexanone	(3)	7.945(0.000)	43	436202	11.032	11.03			0.5	2
69) Dibromochloromethane	(3)	8.074(0.000)	127	477275	11.687	11.69			0.2	1
70) 1,2-Dibromoethane	(3)	8.168(0.000)	107	561846	11.424	11.42			0.2	1
72) Chlorobenzene	(3)	8.518(-0.000)	112	873545	10.847	10.85			0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)	8.576(-0.000)	131	475327	11.744	11.74			0.2	1
74) Ethylbenzene	(3)	8.583(-0.000)	91	1378279	11.453	11.45			0.2	1
75) m/p-Xylene	(3)	8.669(-0.000)	91	1122173	11.806	11.81			0.2	1
76) o-Xylene	(3)	8.970(-0.000)	91	1062599	11.535	11.53			0.2	1
77) Xylene (total)	(3)		91	2184772	23.341	23.34			0.2	1
78) Styrene	(3)	8.984(-0.000)	104	789757	11.332	11.33			0.2	1
79) Bromoform	(3)	9.142(-0.000)	173	608937	11.789	11.79			0.2	1
80) Cumene	(3)	9.242(-0.000)	105	1448805	11.174	11.17			0.2	1
81) Bromobenzene	(3)	9.493(-0.000)	156	549051	11.057	11.06			0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)	9.471(-0.000)	83	632781	10.411	10.41			0.2	1
83) 1,2,3-Trichloropropane	(3)	9.514(-0.000)	110	227806	11.224	11.22			0.2	1
84) n-Propylbenzene	(3)	9.550(-0.000)	120	429350	10.846	10.85			0.5	1
85) 2-Chlorotoluene	(3)	9.629(-0.000)	126	396615	11.118	11.12			0.2	1
86) 4-Ethyltoluene	(3)	9.636(-0.000)	105	1457865M	11.388	11.39			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	9.679(-0.000)	105	1156966M	10.874	10.87			0.2	1
88) Alpha Methyl Styrene	(3)	9.851(-0.000)	118	560153	11.054	11.05			0.2	1
89) tert-Butylbenzene	(3)	9.930(-0.000)	119	1183765M	11.294	11.29			0.5	1
90) 1,2,4-Trimethylbenzene	(3)	9.965(-0.000)	105	1129139	11.219	11.22			0.2	1
91) sec-Butylbenzene	(3)	10.094(-0.000)	105	1679551	11.386	11.39			0.2	1
92) 1,3-Dichlorobenzene	(3)	10.195(-0.000)	146	858173	11.270	11.27			0.2	1
93) 1,4-Dichlorobenzene	(3)	10.259(-0.000)	146	864118	11.184	11.18			0.2	1
94) p-Isopropyltoluene	(3)	10.195(-0.000)	119	1449324	11.572	11.57			0.2	1
95) Benzyl Chloride	(3)	10.366(-0.000)	91	792460	11.913	11.91			0.5	1
96) 1,2-Dichlorobenzene	(3)	10.553(-0.000)	146	781713	11.376	11.38			0.2	1
97) n-Butylbenzene	(3)	10.510(-0.000)	91	1184899	11.410	11.41			0.2	1
98) Hexachloroethane	(3)	10.739(-0.000)	117	369306	12.634	12.63			0.5	2
99) 1,2-Dibromo-3-chloropropane	(3)	11.147(-0.000)	157	343521	12.779	12.78			0.2	1
100) 1,2,4-Trichlorobenzene	(3)	11.770(-0.000)	180	552947	13.414	13.41			0.5	2

M = Compound was manually integrated.

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Analysis Summary for GC/MS Volatiles in Air

Data file: /chem/HP22820.i/17apr06.b/ed00094.d Injection date and time: **06-APR-2017 15:18**
Data file Sample Info. Line: LCSDE55;200;E1709630AA;LCSDE55;0;3;LCSD; Instrument ID: **HP22820.i** Batch: **E1709630AA**
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Blank Data file reference: **/chem/HP22820.i/17apr06.b/ed00092.d**

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: **all**
Calibration date and time (Last Method Edit): 06-APR-2017 02:11
Mid Level Daily Calibration Standard Reference: **/chem/HP22820.i/17apr06.b/ed00091.d**

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

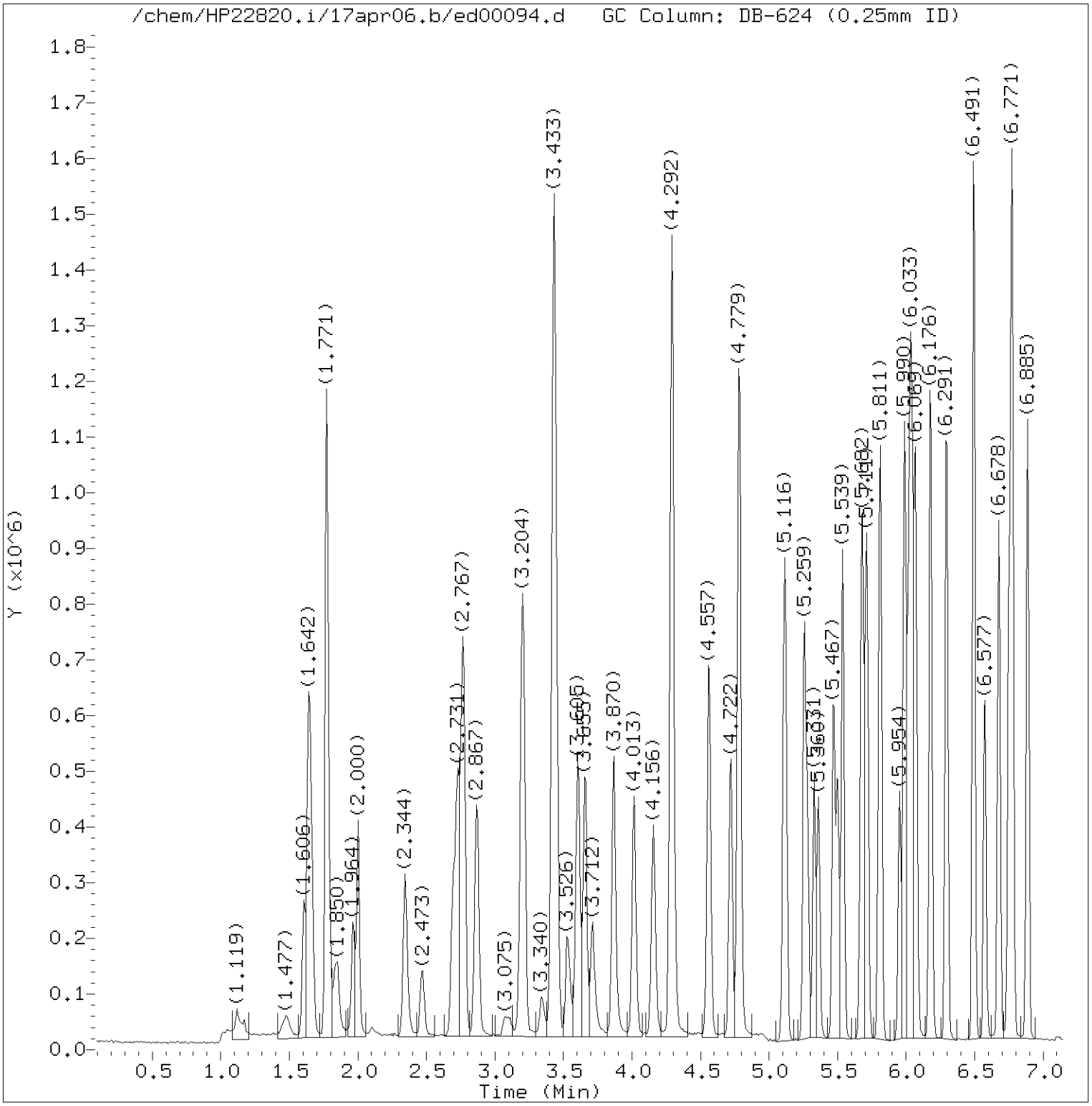
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 200 cc Actual injection Volume (IVa): 200 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
101) Hexachlorobutadiene	(3)	11.878(-0.000)	225	473860	12.799	12.80			0.4	2
102) Naphthalene	(3)	11.971(-0.000)	128	1028780	13.762	13.76			0.4	1

Total number of targets = 99

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Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02. PARALLAX ID: jbs01304



Total Ion Chromatogram (TIC)

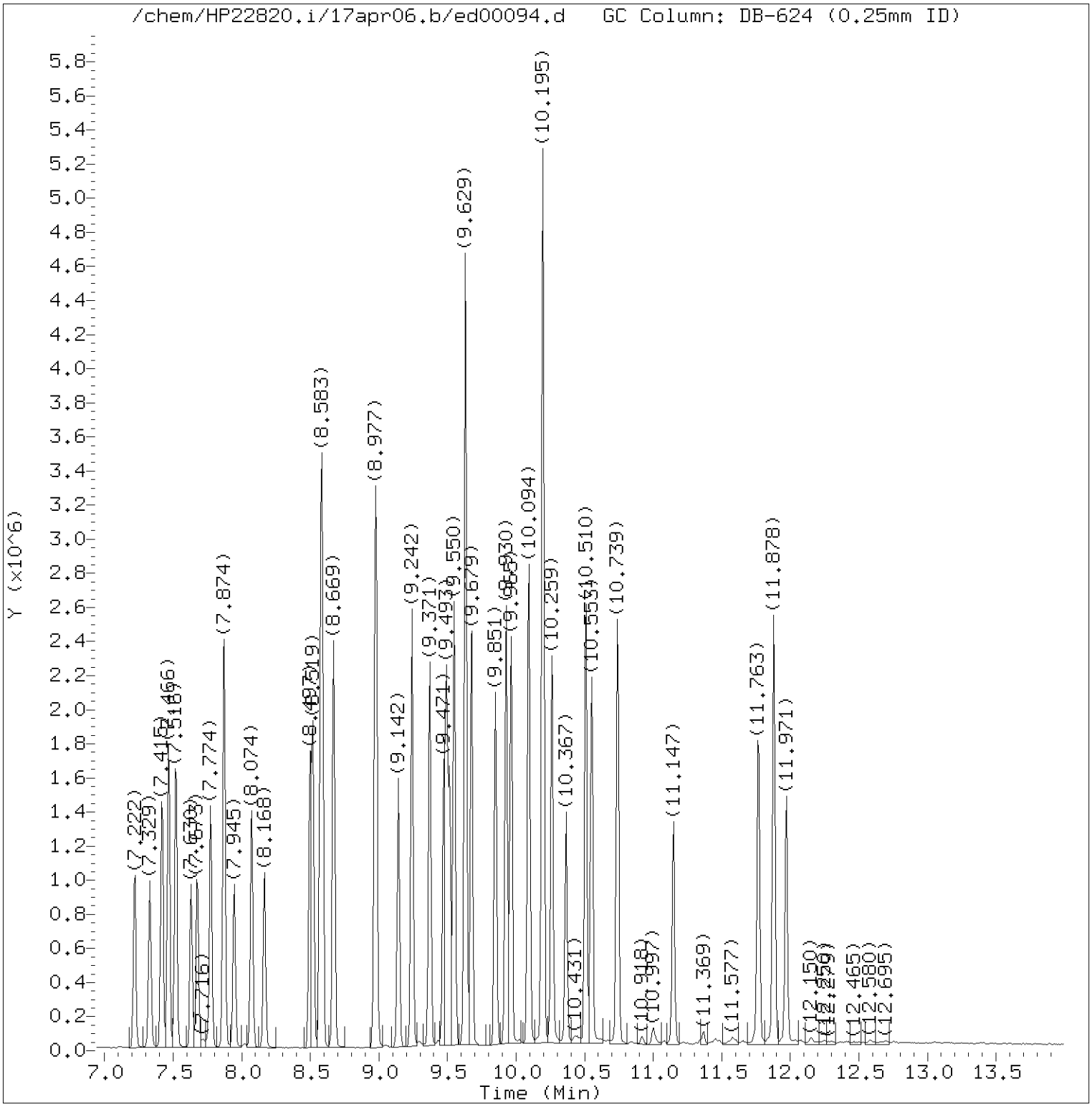
Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

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on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

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on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	1.606	41	139721	10.289
2) Dichlorodifluoromethane	(1)	1.642	85	631669	11.597
3) Chlorodifluoromethane	(1)	1.664	51	325154	11.469
4) Freon 114	(1)	1.771	85	646152	11.328
5) Chloromethane	(1)	1.850	50	147766	10.110
6) Vinyl Chloride	(1)	1.964	62	231060	11.274
7) 1,3-Butadiene	(1)	2.000	54	154890	10.282
8) Bromomethane	(1)	2.344	94	237577	11.331
9) Chloroethane	(1)	2.466	64	127123	11.133
10) Bromoethene	(1)	2.695	106	264615	11.602
11) Dichlorofluoromethane	(1)	2.731	67	529767	11.853
12) Trichlorofluoromethane	(1)	2.767	101	671943	11.465
13) Pentane	(1)	2.867	43	322682	10.529
14) Ethanol	(1)	3.075	45	61856	12.024
15) Freon123a	(1)	3.204	67	496771	11.461
16) Acrolein	(1)	3.340	56	88406	11.194
17) 1,1-Dichloroethene	(1)	3.426	61	362483	11.440
18) Freon 113	(1)	3.440	103	381054	11.040
19) Acetone	(1)	3.526	43	291360	11.862
20) Methyl Iodide	(1)	3.605	142	699626	10.860
21) Carbon Disulfide	(1)	3.662	76	683925	10.896
22) Isopropanol	(1)	3.712	45	306006	14.008
24) 3-Chloropropene	(1)	3.870	76	128114	13.488
23) Acetonitrile	(1)	3.877	40	113500	9.968
25) Methylene Chloride	(1)	4.013	84	233116	12.477
26) tert-Butyl Alcohol	(1)	4.156	59	485126	13.464
29) Methyl t-Butyl Ether	(1)	4.292	73	694893	10.905
28) trans-1,2-Dichloroethene	(1)	4.292	61	329587	11.215
27) Acrylonitrile	(1)	4.300	53	181899	11.122
30) Hexane	(1)	4.565	57	344749	10.834
31) 1,1-Dichloroethane	(1)	4.722	63	426792	11.045
33) Di-Isopropyl Ether	(1)	4.779	45	673911	10.945
32) Vinyl Acetate	(1)	4.787	86	72213	13.794
34) Ethyl Tert-Butyl Ether	(1)	5.116	59	703810	10.918
35) cis-1,2-Dichloroethene	(1)	5.259	61	313018	11.175
37) 2-Butanone	(1)	5.281	72	129326	11.502
38) Ethyl Acetate	(1)	5.331	70	61088	10.116
39) Methyl Acrylate	(1)	5.360	55	385009	11.340

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
40)*Bromochloromethane	(1)	5.474	130	216312	10.000
41) Tetrahydrofuran	(1)	5.503	42	228402	11.276
42) Chloroform	(1)	5.539	83	544848	11.188
43) 1,1,1-Trichloroethane	(1)	5.675	97	557459	11.320
44) Cyclohexane	(1)	5.711	56	364207	10.924
45) Carbon Tetrachloride	(1)	5.811	117	588824	11.516
46) Benzene	(2)	5.990	78	829952	11.073
47) 1,2-Dichloroethane	(2)	6.011	62	333553	11.813
48) Isooctane	(2)	6.033	57	1134340	11.000
49) Tert-Amyl Methyl Ether	(2)	6.069	73	751106	11.045
50) Heptane	(2)	6.176	43	363015	10.631
51)*1,4-Difluorobenzene	(2)	6.298	114	807952	10.000
52) Trichloroethene	(2)	6.491	130	455405	11.791
53) Ethyl Acrylate	(2)	6.577	55	494692	11.348
36) 1,2-Dichloroethene (total)	(1)		61	642605	22.389
54) 1,2-Dichloropropane	(2)	6.678	63	276128	10.767
57) Methyl Methacrylate	(2)	6.749	69	271153	10.850
55) Dibromomethane	(2)	6.771	174	434999	11.441
56) 1,4-Dioxane	(2)	6.778	88	198470	11.049
58) Bromodichloromethane	(2)	6.885	83	556322	11.382
59) cis-1,3-Dichloropropene	(2)	7.222	75	481396	11.080
60) 4-Methyl-2-Pentanone	(2)	7.329	43	484970	11.140
61) Toluene	(3)	7.466	91	1058352	11.269
62) Octane	(3)	7.516	43	509679	11.055
63) trans-1,3-Dichloropropene	(3)	7.630	75	408996	11.292
65) Ethyl Methacrylate	(3)	7.673	69	450895	11.566
66) 1,1,2-Trichloroethane	(3)	7.774	97	356097	11.347
67) Tetrachloroethene	(3)	7.874	166	644513	11.658
68) 2-Hexanone	(3)	7.945	43	436202	11.032
69) Dibromochloromethane	(3)	8.074	127	477275	11.687
70) 1,2-Dibromoethane	(3)	8.168	107	561846	11.424
71)*Chlorobenzene-d5	(3)	8.497	117	778046	10.000
72) Chlorobenzene	(3)	8.519	112	873545	10.847
73) 1,1,1,2-Tetrachloroethane	(3)	8.576	131	475327	11.744
74) Ethylbenzene	(3)	8.583	91	1378279	11.453
75) m/p-Xylene	(3)	8.669	91	1122173	11.806
76) o-Xylene	(3)	8.970	91	1062599	11.535
78) Styrene	(3)	8.984	104	789757	11.332

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

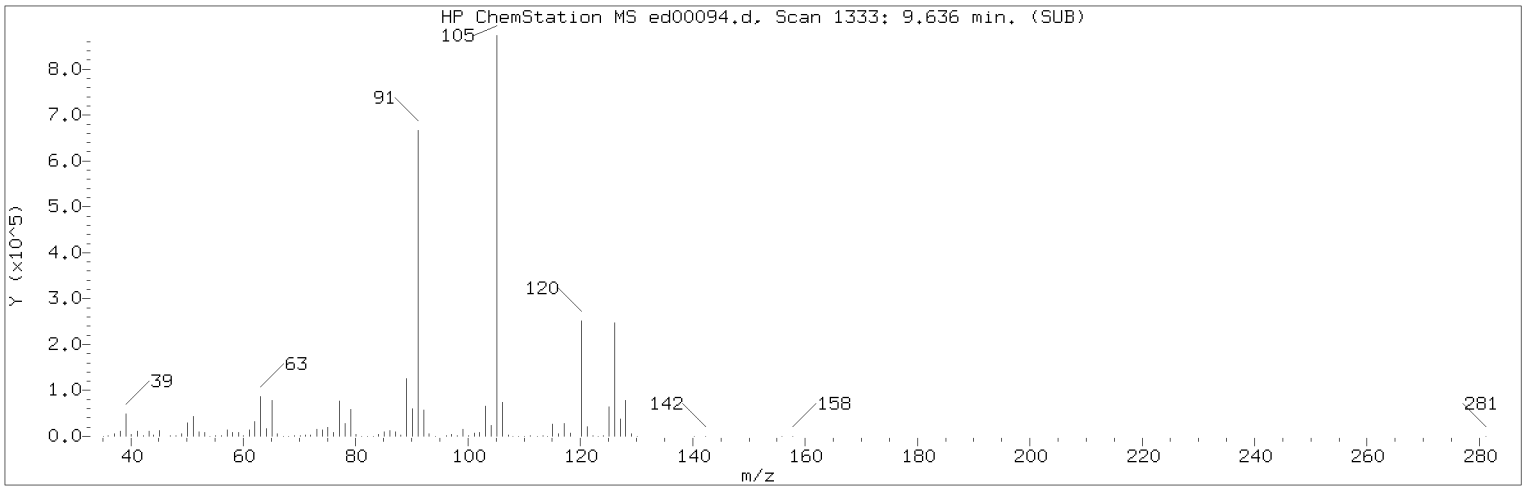
Sample Name: LCSDE55 Lab Sample ID: LCSDE55

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
79) Bromoform	(3)	9.142	173	608937	11.789
80) Cumene	(3)	9.242	105	1448805	11.174
82) 1,1,2,2-Tetrachloroethane	(3)	9.471	83	632781	10.411
81) Bromobenzene	(3)	9.493	156	549051	11.057
83) 1,2,3-Trichloropropane	(3)	9.514	110	227806	11.224
84) n-Propylbenzene	(3)	9.550	120	429350	10.846
85) 2-Chlorotoluene	(3)	9.629	126	396615	11.118
86) 4-Ethyltoluene	(3)	9.636	105	1457865M	11.388
87) 1,3,5-Trimethylbenzene	(3)	9.679	105	1156966M	10.874
88) Alpha Methyl Styrene	(3)	9.851	118	560153	11.054
89) tert-Butylbenzene	(3)	9.930	119	1183765M	11.294
90) 1,2,4-Trimethylbenzene	(3)	9.965	105	1129139	11.219
91) sec-Butylbenzene	(3)	10.094	105	1679551	11.386
92) 1,3-Dichlorobenzene	(3)	10.195	146	858173	11.270
94) p-Isopropyltoluene	(3)	10.195	119	1449324	11.572
93) 1,4-Dichlorobenzene	(3)	10.259	146	864118	11.184
95) Benzyl Chloride	(3)	10.367	91	792460	11.913
97) n-Butylbenzene	(3)	10.510	91	1184899	11.410
96) 1,2-Dichlorobenzene	(3)	10.553	146	781713	11.376
98) Hexachloroethane	(3)	10.739	117	369306	12.634
99) 1,2-Dibromo-3-chloropropane	(3)	11.147	157	343521	12.779
100) 1,2,4-Trichlorobenzene	(3)	11.771	180	552947	13.414
101) Hexachlorobutadiene	(3)	11.878	225	473860	12.799
102) Naphthalene	(3)	11.971	128	1028780	13.762
64) 1,3-Dichloropropene (total)	(3)		75	890392	22.372
77) Xylene (total)	(3)		91	2184772	23.341

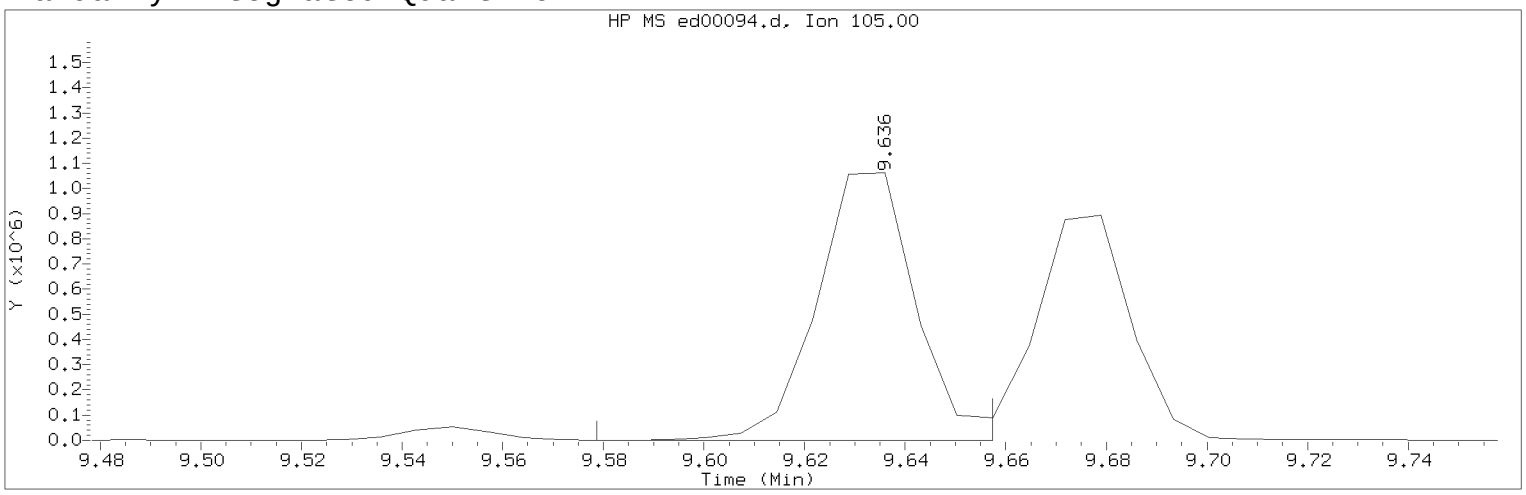
M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

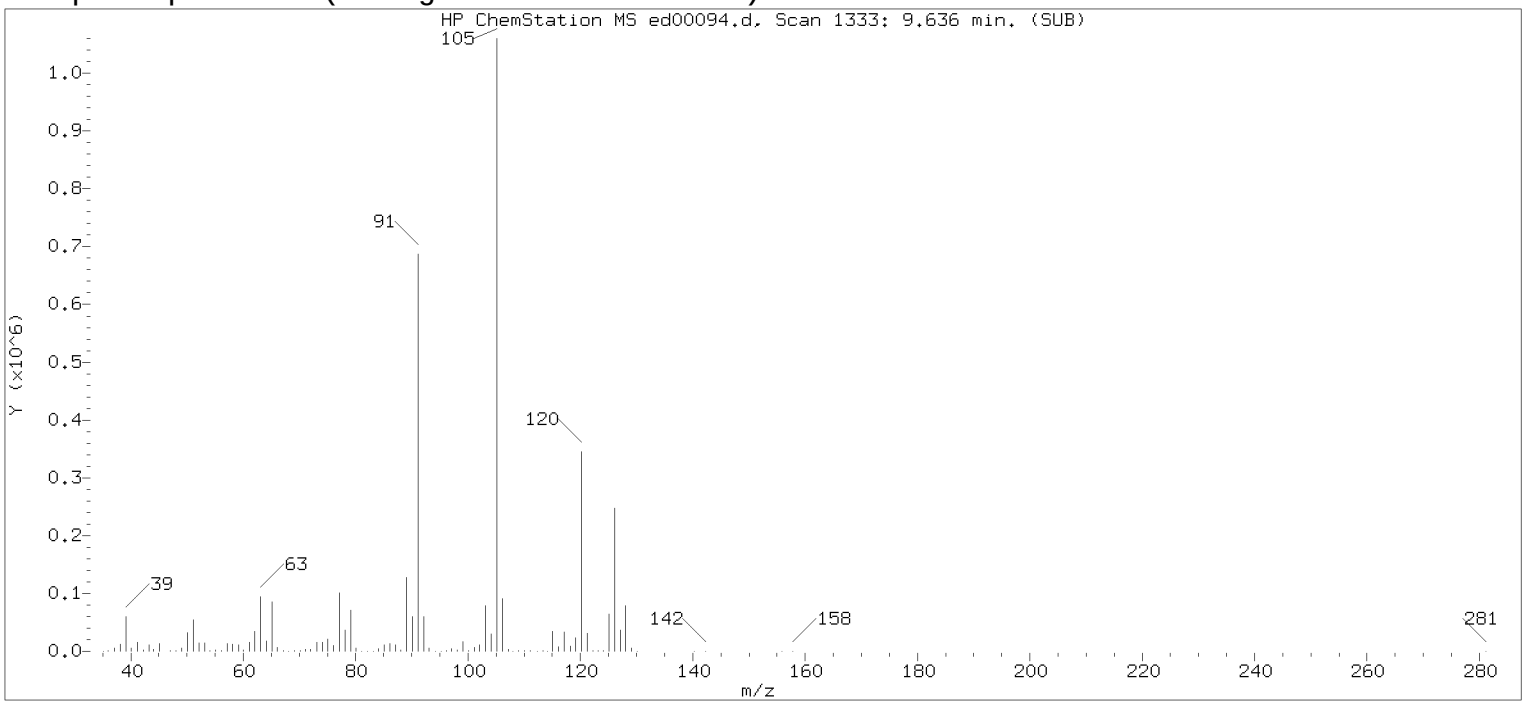
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1333
Retention Time (minutes): 9.636
Quant Ion : 105.00
Area (flag) : 1457865M
Concentration (ppb(v)) : 11.3882
Integration start scan : 1324 Integration stop scan: 1335
Y at integration start : 406 Y at integration end: 406

Reason for manual integration: improper integration

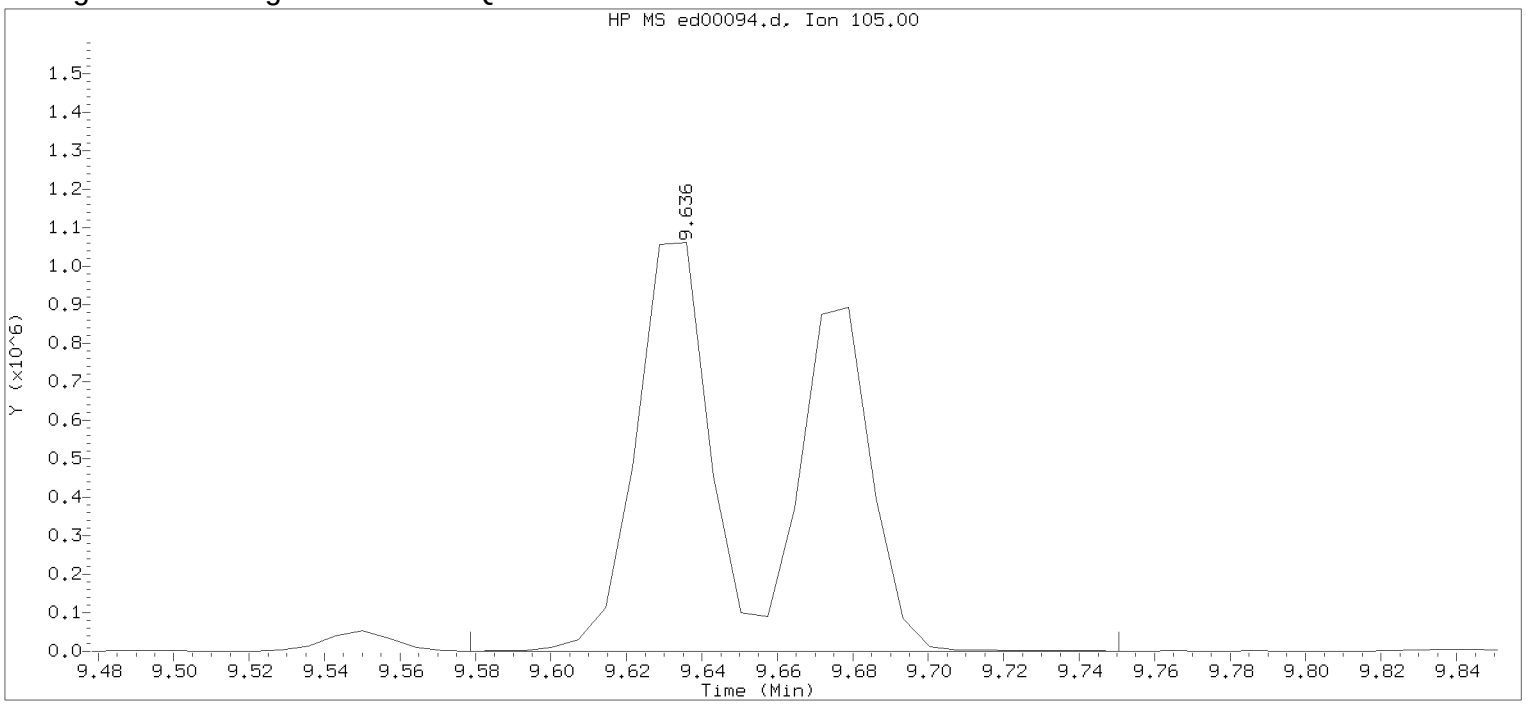
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

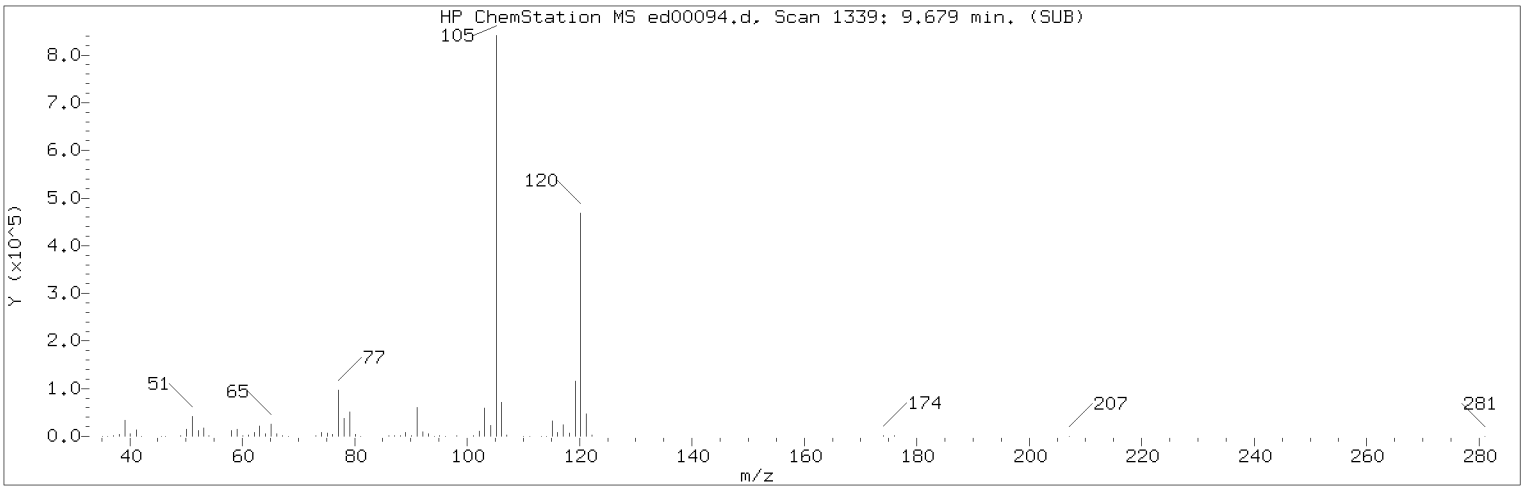
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 Unknown

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

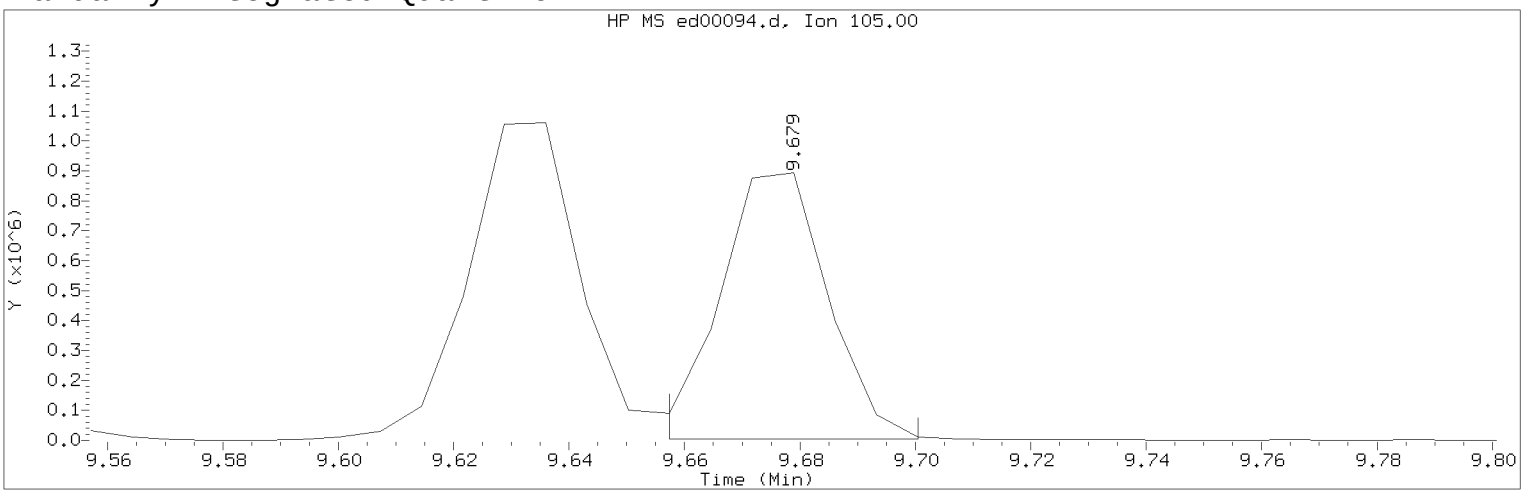
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1333
Retention Time (minutes): 9.636
Quant Ion : 105.00
Area : 2594580
Concentration (ppb(v)) : 20.2677
Integration start scan : 1324 Integration stop scan: 1348
Y at integration start : 406 Y at integration end: 406

Digitally signed by Jacob E. Bailey on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

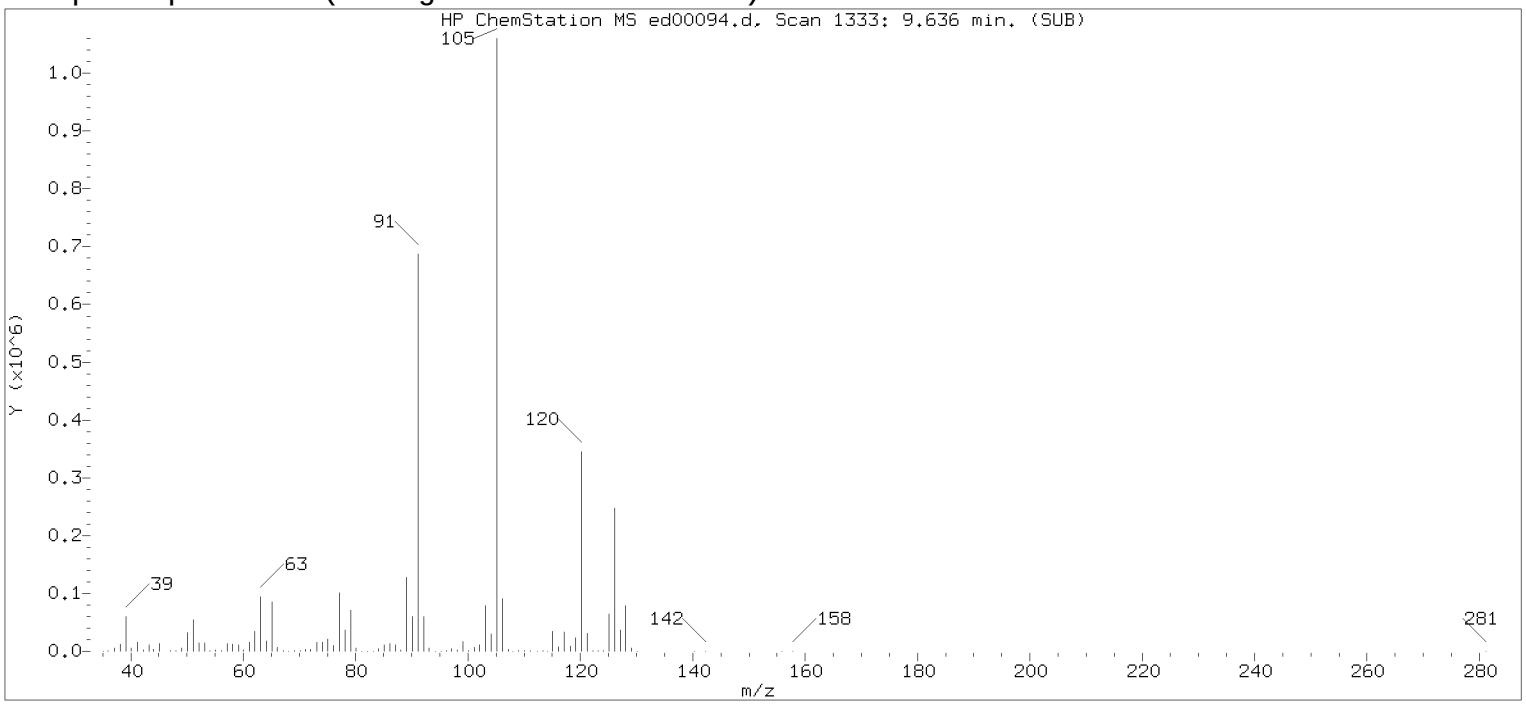
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1339
Retention Time (minutes): 9.679
Quant Ion : 105.00
Area (flag) : 1156966M
Concentration (ppb(v)) : 10.8740
Integration start scan : 1335 Integration stop scan: 1341
Y at integration start : 4806 Y at integration end: 4806

Reason for manual integration: improper integration

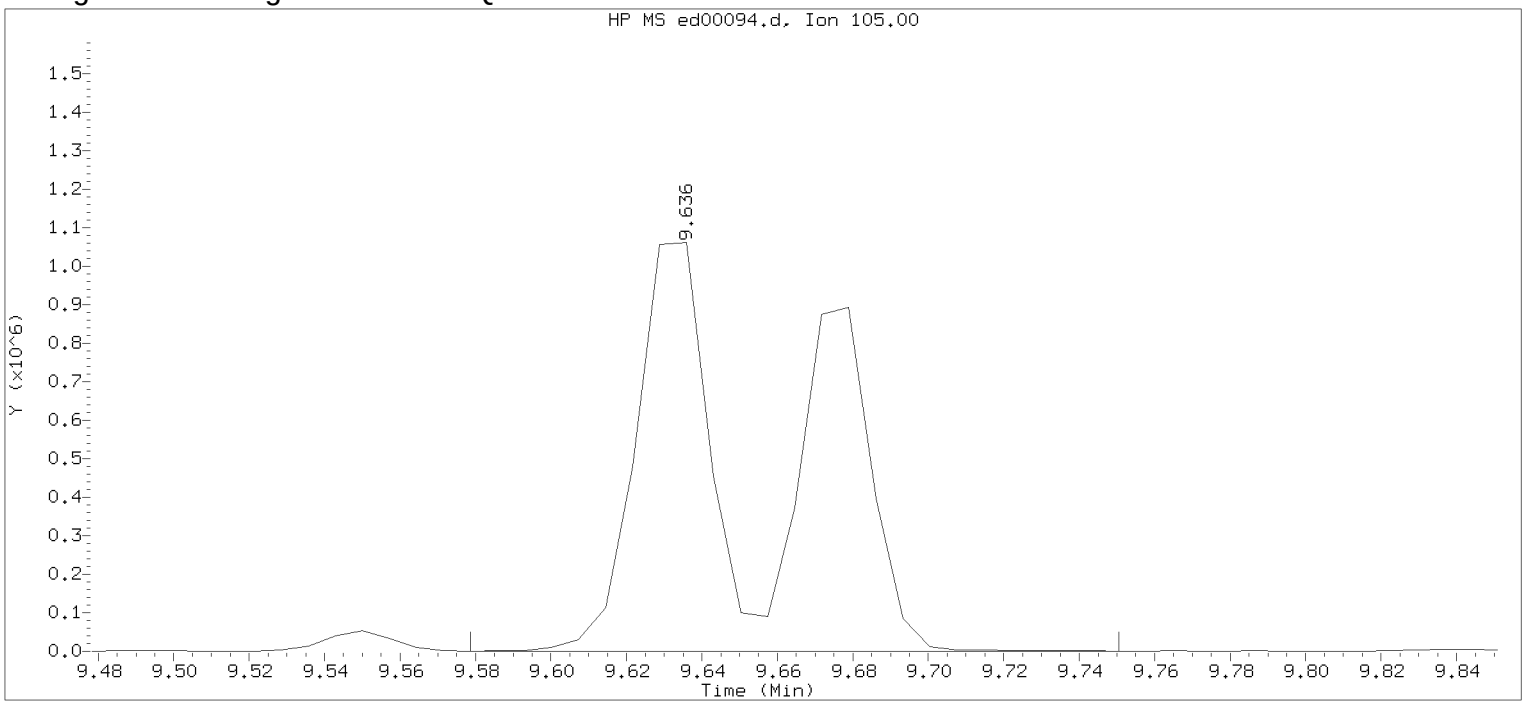
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

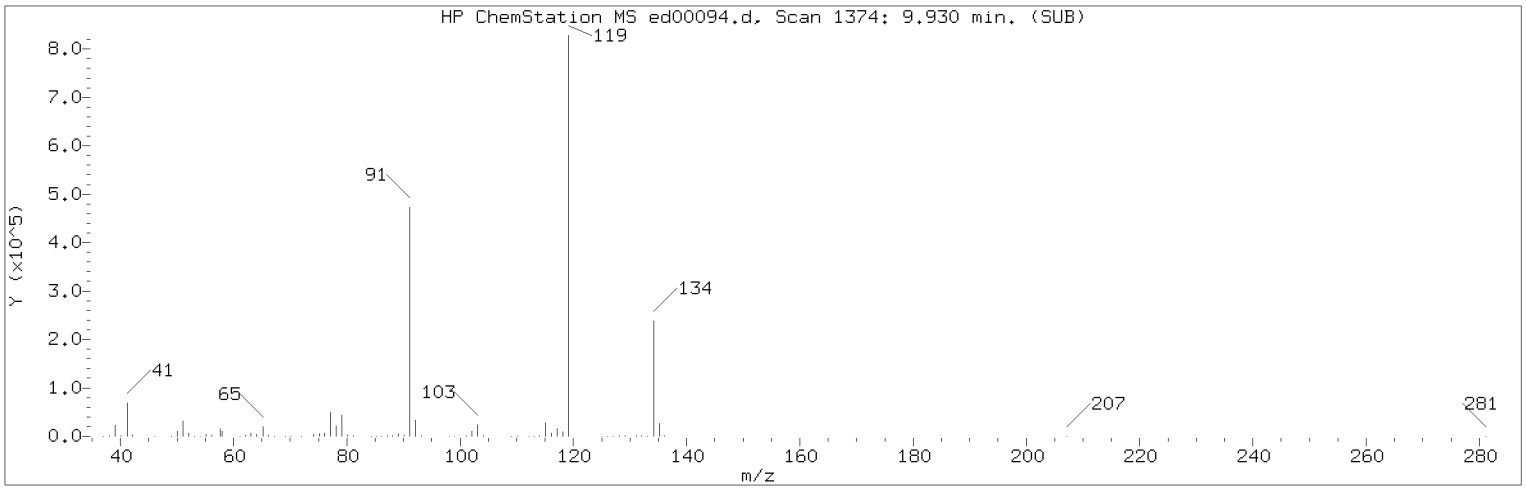
Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 Unknown

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

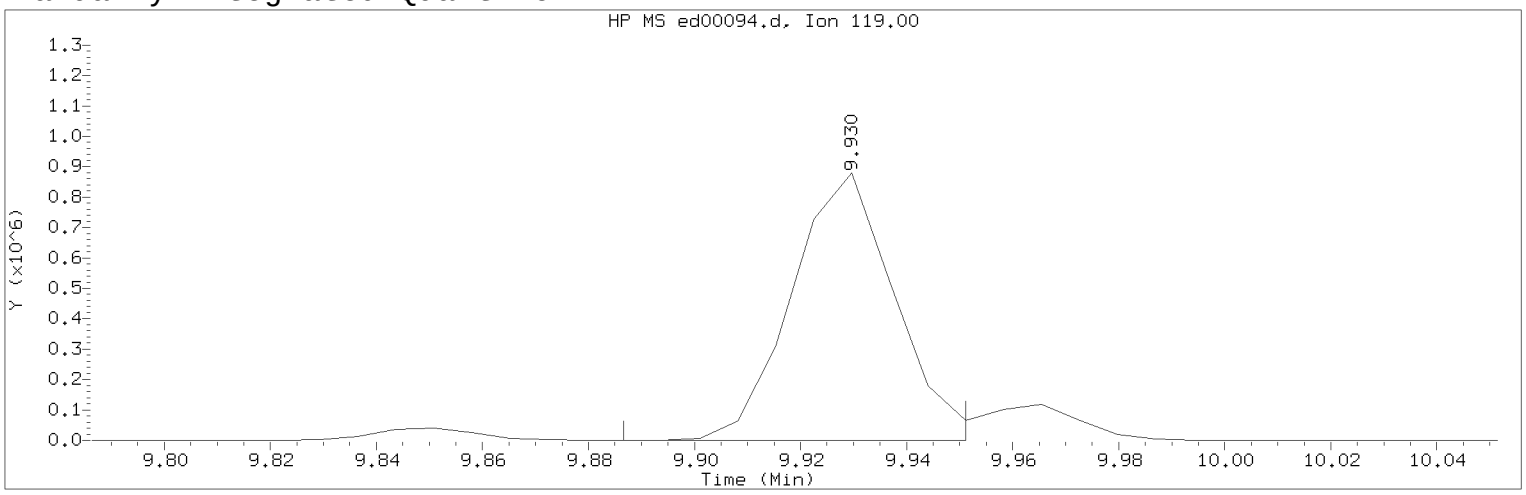
Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1333
Retention Time (minutes): 9.636
Quant Ion : 105.00
Area : 2594580
Concentration (ppb(v)) : 24.3858
Integration start scan : 1324 Integration stop scan: 1348
Y at integration start : 406 Y at integration end: 406

Digitally signed by Jacob E. Bailey on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:36 jeb07445

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

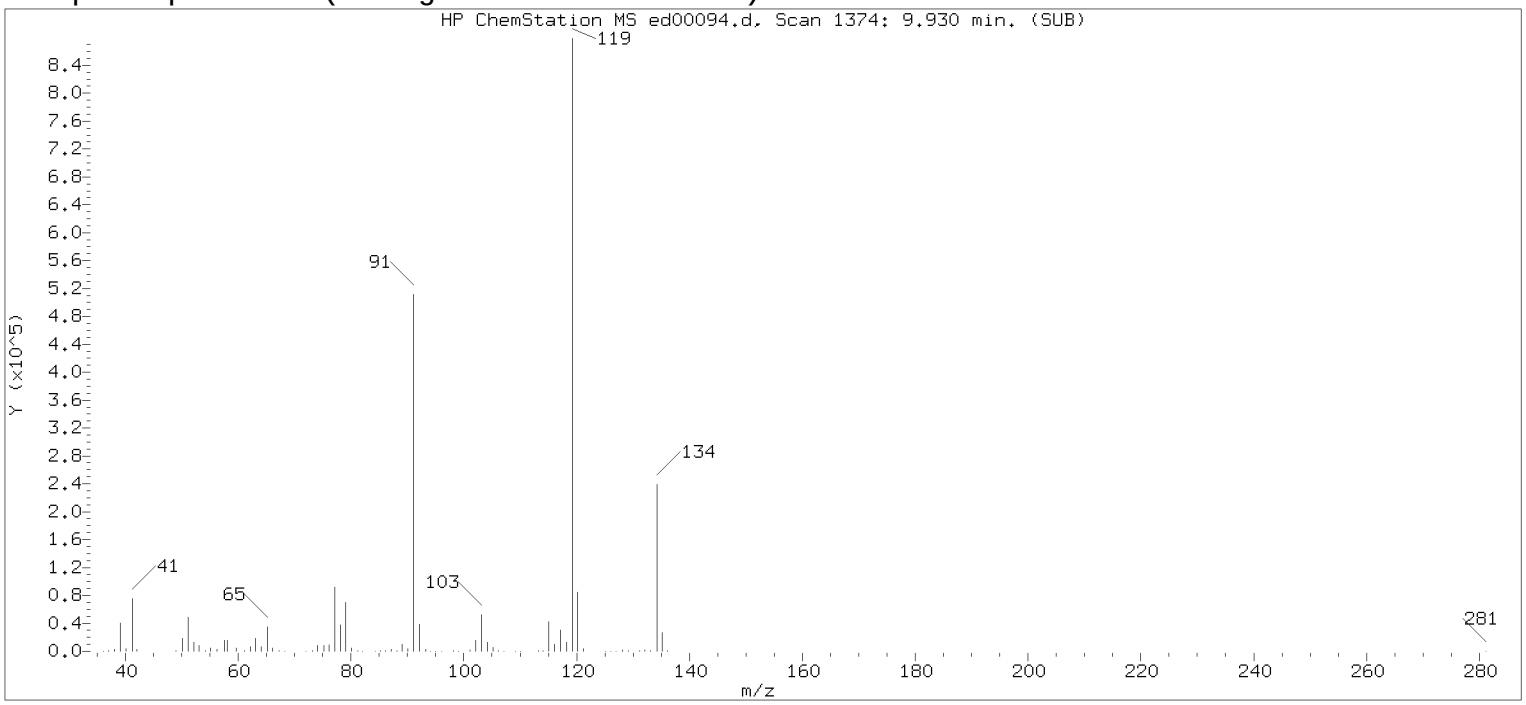
Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1374
Retention Time (minutes): 9.930
Quant Ion : 119.00
Area (flag) : 1183765M
Concentration (ppb(v)) : 11.2942
Integration start scan : 1367 Integration stop scan: 1376
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

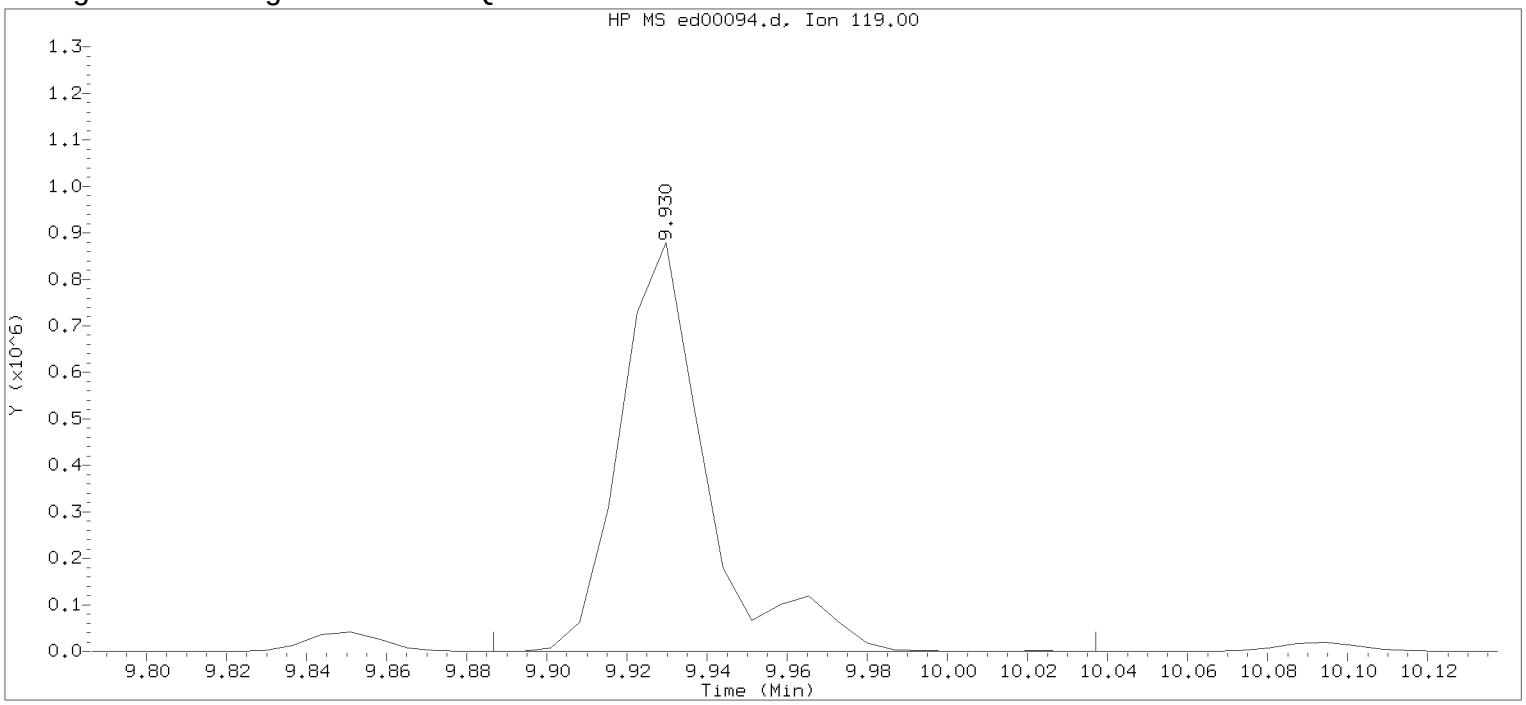
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Jeffrey B. Smith on 04/07/2017 at 14:02.
PARALLAX ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP22820.i/17apr06.b/ed00094.d Instrument ID: HP22820.i
Injection date and time: 06-APR-2017 15:18 Analyst ID: jeb07445

Method used: /chem/HP22820.i/17apr06.b/to-15.m Sublist used: all
Calibration date and time: 06-APR-2017 02:11
Date, time and analyst ID of latest file update: 06-Apr-2017 03:35 Unknown

Sample Name: LCSDE55 Lab Sample ID: LCSDE55

Compound Number : 89
Compound Name : tert-Butylbenzene
Scan Number : 1374
Retention Time (minutes): 9.930
Quant Ion : 119.00
Area : 1317094
Concentration (ppb(v)) : 12.5663
Integration start scan : 1367 Integration stop scan: 1388
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jacob E. Bailey on 04/06/2017 at 03:37.
Target 3.5 esignature user ID: jeb07445