NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
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April 07, 2022

City of Rochester Dept. of Environmental Quality
Jane Forbes
City Hall, Room 300-B
30 Church Street
Rochester, NY 14614-1290

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter
Andrews Street Site, Rochester
Monroe County, Site No.: E828144

Dear Ms. Forbes:

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: September 1, 2020 to December 1, 2021.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year(s), your next PRR is due on January 2, 2023 (certifying period December 2, 2021 to December 2, 2022). You should receive a courtesy reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions or need additional forms or further assistance with the Site, please contact me at 585-226-5354 or e-mail: charlotte.theobald@dec.ny.gov.

Sincerely,

Charlotte B. Theobald

Charlotte Theobald
Project Manager

ec:
Ann Spaulding (City of Rochester)
Dennis Peck (City of Rochester)
Jeff Danzinger (Day Environmental)
Nate Simon (Day Environmental)
David Pratt (NYSDEC)
Todd Caffoe (NYSDEC)
Justin Deming (NYSDEC)
Melissa Doroski (NYSDOH)
Mirza Begovic (MCHD)

PERIODIC REVIEW REPORT
FOR PERIOD OF
SEPTEMBER 1, 2020 THROUGH DECEMBER 1, 2021

ENVIRONMENTAL RESTORATION PROGRAM

ANDREWS STREET SITE
300, 304-308, 320 ANDREWS STREET, 25 EVANS STREET
ROCHESTER, NEW YORK, 14604
NYSDEC SITE #E828144

Prepared For: City of Rochester
Division of Environmental Quality
Rochester, New York

Prepared By: Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York

Date: December 20, 2021

TABLE OF CONTENTS

I. INTRODUCTION.....1

II. SITE OVERVIEW.....2

III. EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS.....4

IV. IC/EC COMPLIANCE REPORT.....5

V. MONITORING PLAN COMPLIANCE REPORT.....7

VI. OPERATION & MAINTENANCE (O&M) PLAN COMPLIANCE REPORT.....9

VII. OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS.....9

FIGURES

Figure 1: Project Locus Map

Figure 2: Site Plan

Figure 3: Site Plan with Remaining Monitoring Wells, Injection Wells and ISCO Treatment Piping

ATTACHMENTS

Attachment A: Groundwater Monitoring Documentation

Attachment B: Site-Wide Inspection Form

Attachment C: Institutional and Engineering Controls Certification Form

I. Introduction

A. Executive Summary

- Historic commercial and industrial uses of the Site since the early 1920s included plumbing supply, electrical supply, bakery, printer, commercial bus depot and bus repair garage, gasoline station, chemical sales/distribution, dry cleaning equipment distributor, fuel oil contractor, and warehousing.
- Types of contamination at the Site that required remediation included:
  - Tetrachloroethene (Perchloroethene or PCE) and other chlorinated volatile organic compounds (VOCs), petroleum-related constituents, polychlorinated biphenyls (PCBs), metals and semi-volatile organic compounds (SVOCs) in soil, urban fill material and/or groundwater.
- Remedial actions were performed at the Site as Interim Remedial Measures (IRMs) and Supplemental IRMs. Remedial actions taken included:
  - Removal and off-site disposal of soil contaminated with VOCs, metals, PCBs and SVOCs.
  - Removal and off-site disposal of two previously closed in-place underground storage tanks (USTs), some buried piping containing PCE-impacted sediments, and sewer piping in the former Evans Street right-of-way (ROW).
  - In-Situ Chemical Oxidation (ISCO) of VOC contamination in saturated soils and groundwater.
  - Installation of a cover system.
  - Execution and recording of an Environmental Easement.
  - Development and implementation of a Site Management Plan (SMP).

B. Effectiveness of the Remedial Program

1. Progress made during the reporting period toward meeting the remedial objectives for the Site included: continued ISCO groundwater polishing; and continued monitoring and/or inspection of the cover system and/or groundwater conditions.
2. The work completed to date shows that the remedial program has the ability to achieve the remedial objectives for the Site.

C. Compliance

1. There are no areas of non-compliance with the SMP.
2. Given compliance with the Site's SMP, no steps were needed to correct areas of non-compliance.

D. Recommendations

1. It is recommended that applicable sections of the SMP be revised at an appropriate time in the future to reflect decommissioning of select monitoring wells, additional supplemental polishing phase activities, and modifications to the groundwater monitoring program that have been, or will be, approved by the NYSDEC.

2. No change to the frequency of Periodic Review Report (PRR) submittals is recommended at this time.

3. Since residual contamination remains on the Site, it is recommended that SMP requirements continue to be implemented.

II. Site Overview

A. The 1.524-acre Site consists of four contiguous parcels that are addressed as 300, 304-308, and 320 Andrews Street and 25 Evans Street, and are located in the City of Rochester (City), County of Monroe, New York (refer to Figure 1 and Figure 2). The Site is owned by the City.

The Site is bounded by the Inner Loop highway ROW to the north, Andrews Street ROW with commercial property beyond to the south, Franklin Square ROW with a City-owned park beyond to the east, and Bristol Street ROW with commercial property beyond to the west.

Prior to remediation, multiple types of contamination at the Site were identified in various media. Pre-remediation contaminant areas included the following:

Soil

Area 1 (IRM-01): PCE source area in soil and groundwater.

Area 2 (IRM-02): A preferential PCE migration pathway along a sewer.

Area 3 (IRM-03): Two closed in-place USTs.

Area 4 (IRM-04): A localized PCB-impacted soil area.

Area 5 (IRM-05): A former trench drain area.

Area 6 (IRM-06): An area of buried piping.

Area 7: Heterogeneous historic urban fill material across most of the Site.

Miscellaneous Areas with VOCs.

Groundwater

A source and plume of VOCs primarily consisting of PCE, and one or more metals exceeding groundwater standards and guidance values primarily within the overburden groundwater table. Light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL) were not detected in groundwater.

B. Chronology

The Site was remediated in accordance with a NYSDEC-approved Interim Remedial Measures Work Plan (IRMWP) dated October 4, 2012, a Supplemental Interim Remedial Measure Work Plan (SIRMWP) dated June 14, 2014, an Addendum #1 to the SIRMWP dated December 10, 2014, and an Addendum #2 to the SIRMWP dated May 11, 2015.

A chronology of the Remedial Actions performed at the Site under the IRMWP is summarized below:

- **IRM-01:** In November, 2012, a total of 1,673.06 tons of non-hazardous PCE-impacted soil, and 138.83 tons of characteristic hazardous PCE-impacted soil, were removed from Area 1 and disposed off-site at regulated landfills.
- **IRM-02:** In November and December 2012, approximately 115 linear feet (L.F.) of combined sanitary/storm sewer trunk line and approximately 101 tons of PCE-impacted soil were removed from Area 2 and disposed off-site at a regulated landfill as non-hazardous waste.
- **IRM-03:** In October and November 2012, two previously closed in-place petroleum USTs, their K-Crete contents and 48.82 tons of petroleum-contaminated soil were removed from Area 3. The steel USTs were recycled, and the K-Crete and contaminated soil were disposed off-site at a regulated landfill as non-hazardous wastes.
- **IRM-04:** In November 2012, a total of 15.64 tons of PCB-impacted soil was removed from Area 4 and disposed off-site at a regulated landfill as a non-hazardous waste.
- **IRM-05:** In October 2012, a total of 223.21 tons of non-hazardous petroleum and VOC-impacted soil was removed from Area 5 and disposed off-site at a regulated landfill as a non-hazardous waste.
- **IRM-06:** In October 2012, approximately 210 L.F. of piping, and a limited amount of soil, were removed from Area 6 and disposed off-site at a regulated landfill as a non-hazardous waste.

A chronology of the Remedial Actions performed at the Site under the SIRMWP, as amended by Addendum #1 and Addendum #2, is summarized below:

- **Supplemental IRM Soil Removal:** In June 2014 and July 2014, a total of 76.05 tons of PCE-impacted soil were removed south of Area 1 and disposed off-site at a regulated landfill as a non-hazardous waste.
- **Supplemental IRM In-Situ Chemical Oxidation (ISCO):** Between June 2014 and June 2015, approximately 36,933 pounds of potassium permanganate were injected or otherwise placed in the ground by various methods to treat PCE in saturated soils and groundwater at the Site. During this work, approximately 134.32 tons of non-hazardous soil were generated and disposed off-site at a regulated landfill.
- **Cover System:** In November 2014, a site-wide cover system was installed.
- **Environmental Easement:** In May 2015, an Environmental Easement was recorded.
- **Site Management Plan:** In August 2015, a Site Management Plan (SMP) was finalized.

In August/September 2019, supplemental polishing phase remedial actions were also completed that included: excavation, removal and disposal of approximately 250 cubic yards of PCE-contaminated soil and 9,500 gallons of PCE-contaminated groundwater from the saturated zone (12 to 24 foot depth interval) within Area 1; and injection of 950 gallons of approximate 5% potassium

permanganate solution to a new ISCO injection gallery (ISCO-1 through ISCO-8) that was installed during backfilling of the excavation in Area 1. This work was completed in accordance with a Supplemental Polishing Phase Remedial Actions Work Plan dated August 7, 2019, and was documented in a Construction Completion Report (CCR) dated February 2020.

Cleanup goals for groundwater are NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Groundwater Standards and Guidance Values.

Cleanup or on-site re-use goals for soil are NYSDEC Part 375 Restricted Residential soil cleanup objectives (SCOs) and Protection of Groundwater SCOs.

ISCO Polishing-Phase Treatment Work Conducted During the Reporting Period

ISCO polishing-phase treatment work conducted during the reporting period included the following:

- In November 2020, a total of 330 pounds of potassium permanganate mixed with water was injected at select injection points and select monitoring wells. Approximately 55 pounds of potassium permanganate was mixed with water to make approximately 150 gallons of potassium permanganate solution, which was injected at monitoring well MW-01 and surrounding injection wells IW-1, IW-4A, IW-4B, IW-5, IW-8, and IW-9. Approximately 38 pounds of potassium permanganate was mixed with water to make approximately 100 gallons of potassium permanganate solution, which was injected at monitoring well MW-03A and surrounding injection wells IW-17 through IW-20. Approximately 237 pounds of potassium permanganate was mixed with water to make approximately 650 gallons of potassium permanganate solution, which was injected at monitoring well MW-17A and surrounding injection points ISCO-1 through ISCO-8 (refer to Figure 3).
- In June and July 2021, a total of 385 pounds of potassium permanganate mixed with a small amount of water to create a slurry which was injected at select injection points and select monitoring wells. Approximately 62 pounds of potassium permanganate slurry was placed in MW-01 and surrounding injection wells IW-4B and IW-5. Approximately 127 pounds of potassium permanganate slurry was injected at monitoring well MW-03A and surrounding injection wells IW-17 through IW-20. Approximately 196 pounds of potassium permanganate slurry was injected at monitoring well MW-17A and surrounding injection points ISCO-1 through ISCO-8 (refer to Figure 3).

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

A. Effectiveness of Remedies

As documented in a Remedial Investigation/Alternatives Analysis Report (RI/AAR) dated November 2015, the Supplemental Polishing Phase Remedial Actions CCR dated February 2020 and the Supplemental Polishing Phase Remedial Actions CCR dated February 2020, soil removals and ISCO were implemented and subsequently evaluated with the collection and analysis of confirmatory soil samples and groundwater samples.

- As shown in the RI/AAR and CCRs, the results of confirmatory soil samples collected in soil removal areas were successful at remediating the targeted

contamination in those areas to levels that meet applicable SCOs above the groundwater tables, and significantly reducing targeted contamination levels in soil below the groundwater table.

- The results of previous groundwater monitoring (conducted between November 2014 and July 2020), and monitoring conducted during the reporting period (conducted in December 2020 and September 2021), showed that chlorinated VOCs (CVOCs) in groundwater have been significantly reduced as a result of previous source removals, ISCO, and polishing phase remedial actions.

- Documentation concerning the two groundwater monitoring events performed during this reporting period is included in this PRR. This documentation includes Table 1 through Table 4, Graph A through Graph H showing CVOC concentrations in groundwater samples over time for select monitoring wells, Analytical Services Protocol (ASP) Category B laboratory reports, and data validation summary reports (DUSRs) for the lab reports that are provided in Attachment A. In addition, Figure 4 and Figure 5 depict potentiometric groundwater contour maps and PCE concentrations detected in groundwater sampled for the December 2020 and September 2021 groundwater monitoring events, respectively.

    - As shown on Graph H, cumulative CVOC concentrations detected in groundwater at wells MW-01, MW-02 and MW-03/MW-03A during a January 2012 pre-remediation sampling event (68,942 ug/l) have been reduced approximately 97% as of the date of the September 2021 sampling event (2,208 ug/l).

Based on the remedial actions performed, it is anticipated that the CVOC concentrations in groundwater at the Site will continue to decrease with time.

The Site relies on a DER-10 compliant cover system engineering control to meet remedial action objectives. In accordance with the SMP, an inspection was completed on September 1, 2021. The results of this inspection are presented on a Site-Wide Inspection Form included in Attachment B. As shown, the cover system was observed to be in a condition that successfully inhibits contact with underlying Site media.

Based on the monitoring conducted to date, the remedy is shown to be effective at achieving the remedial goals for this Site.

IV. IC/EC Compliance Report

A. IC/EC Requirements/Compliance

1. A description of each control, its objective, and how performance of the control is evaluated is provided below:

    - Site Management Plan: The objective of the SMP is to manage remaining contamination above regulatory criteria in a manner that is protective of human health and the environment. The SMP is a living document and is anticipated to be revised and updated as needed to reflect the current Site conditions and applicable restrictions. The SMP includes an Institutional

and Engineering Control (IC/EC) Plan and a Site Monitoring Plan. An Operation and Maintenance Plan is not included in the SMP since the Site currently does not rely on any mechanical systems to protect public health and the environment. The performance of the controls is evaluated through monitoring and periodic certification. Controls on the Site include:

- Management of soil and historic fill material during future activities that would penetrate, encounter, or disturb remaining contamination must be conducted in accordance with provisions of the SMP, including the Excavation Work Plan (EWP);
- A requirement for evaluation of potential soil vapor intrusion into any new enclosed structures on the Site, and designing and implementing engineering controls to address soil vapor intrusion for those structures, if deemed warranted.
- Requirements for monitoring and repair of the cover system engineering control;
- Requirements for inspections and notifications for various reasons associated with Site conditions, change in use, change in ownership, etc.
- Requirements for monitored natural attenuation groundwater sampling and analysis.

▪ Environmental Easement: Restricts use of the property; restricts use of groundwater; requires implementation of the SMP; requires evaluation of soil vapor intrusion into any new buildings, and mitigation, if needed; requires operating, maintaining and inspecting any engineering controls; requires groundwater and other environmental and public health monitoring; requires monitoring, maintaining and replacing groundwater wells as necessary as set forth in the SMP; requires reporting of SMP data and information; requires implementation of the SMP for activities that would disturb remaining contaminated media; and requires monitoring to assess the performance and effectiveness of the remedy. The performance of each control is evaluated through periodic certification.

2. Status

   Each control is fully in place, is being adhered to, and is effective.

3. Corrective Measures

   None Required.

4. Conclusions and Recommendations for Changes

   The controls are being implemented and no changes are being recommended.

B. Certification

   Certification included as Attachment C.

V. Monitoring Plan Compliance Report

A. Components

- Groundwater Monitoring Plan: As identified in the 2015 SMP, initial monitored attenuation groundwater monitoring was to be completed over a three-year period. The monitored attenuation groundwater monitoring included quarterly monitoring the first year (2016), and bi-annual (i.e., semi-annual) monitoring for two years thereafter (2017 and 2018). Modifications in the monitoring frequency, sampling techniques, the number of wells to be sampled, and the test parameters, including groundwater monitoring after 2018, are approved by the NYSDEC. This plan also covers monitoring well repairs, replacement, and decommissioning. Per a June 1, 2021 letter, the NYSDEC provided guidance on modifications to the monitoring frequency, and the wells to be sampled. The groundwater monitoring frequency was modified semi-annual to annual. Annual groundwater monitoring currently includes: collection of static water levels from existing wells MW-01, MW-02, MW-03A, MW-05, MW-11, MW-15, MW-16, MW-17A, MW-18 and MW-19; and collection and VOC laboratory analysis of groundwater samples from wells MW-01, MW-02, MW-03A, MW-11, and MW-17A using passive diffusion bag (PDB) samplers.
- Excavation Work Plan: An EWP is included as part of the SMP for management of soil and historic fill material that may contain residual contamination at the Site.
- Site-Wide Inspection: Site-wide inspections that include cover system monitoring and monitoring well inspection are required annually and also after severe weather conditions that may affect engineering controls or monitoring devices.

B. Summary of Monitoring Completed

- Groundwater Monitoring Plan: December 2020 annual groundwater monitoring, and September 2021 annual groundwater monitoring were completed during the reporting period.
  - Monitoring wells MW-01, MW-02, MW-03A, MW-05, MW-11, MW-15, MW-16, MW-17A, MW-18, and MW-19 were sampled during the December 2020 groundwater monitoring event.
  - Monitoring wells MW-01, MW-02, MW-03A, MW-11, and MW-17A were sampled during the September 2021 groundwater monitoring event.

  As previously identified, documentation concerning the two groundwater monitoring events performed during this reporting period is included in Attachment A. Figure 4 and Figure 5 depict potentiometric groundwater contour maps and PCE concentrations detected in groundwater sampled for the December 2020 and September 2021 groundwater monitoring events, respectively.
- Excavation Work Plan: No activities were performed during the reporting period that required the implementation of the EWP requirements.

- Site-Wide Inspection: An annual site-wide inspection was completed on September 1, 2021. A copy of the Site-Wide Inspection Form is included in Attachment B. The inspection revealed the following:
  - Monitoring wells present at the Site at the time of the inspection were in good condition.
  - The Site cover system at the time of the inspection was observed in good condition.

C. Comparison with Remedial Objectives

- Groundwater Monitoring Plan: The results of the groundwater monitoring completed during the reporting period showed some CVOC concentrations exceeded TOGS 1.1.1 groundwater standards and guidance values in select wells located generally within or downgradient of the PCE source area. There are some fluctuations in concentrations of CVOCs (i.e., increases and decreases) in relation to previous results, which in part may be attributable to back diffusion with seasonal changes in groundwater levels at the Site. Future ISCO polishing may continue to focus on treatment of the areas on the Site where highest CVOC concentrations are detected (e.g., areas of monitoring wells MW-01, MW-03A, etc.).
- Excavation Work Plan: N/A
- Site-Wide Inspection: The site cover engineering control continues to meet the remedial objective of protecting human health and the environment from coming into contact with residual contamination at the Site.

D. Monitoring Deficiencies

There are no monitoring deficiencies.

E. Conclusions and Recommendations for Changes

- Groundwater Monitoring Plan: Per the June 1, 2021 letter from the NYSDEC, an annual groundwater monitoring event will be completed sometime in the July through September 2022 timeframe. During this groundwater monitoring event, static water levels will be collected from the 10 existing monitoring wells, and groundwater samples will be collected from monitoring wells MW-01, MW-02, MW-03A, MW-1, and MW-17A using passive diffusion bag samplers. The resulting samples will be analyzed for TCL VOCs and tentatively identified compounds (TICs). A groundwater contour map will also be prepared for the 2022 annual groundwater monitoring event. Subsequent to this event, the groundwater monitoring program will be evaluated with the NYSDEC to determine whether sample frequency and number of wells to be sampled can be reduced, and whether any existing monitoring wells can be decommissioned in accordance with NYSDEC's CP-43 Groundwater Monitoring Well Decommissioning Procedure dated November 3, 2009, etc.
- Excavation Work Plan: No changes to the EWP are recommended.
- Site-Wide Inspection: No changes to the site-wide inspection are recommended.

VI. Operation & Maintenance (O&M) Plan Compliance Report

N/A

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP

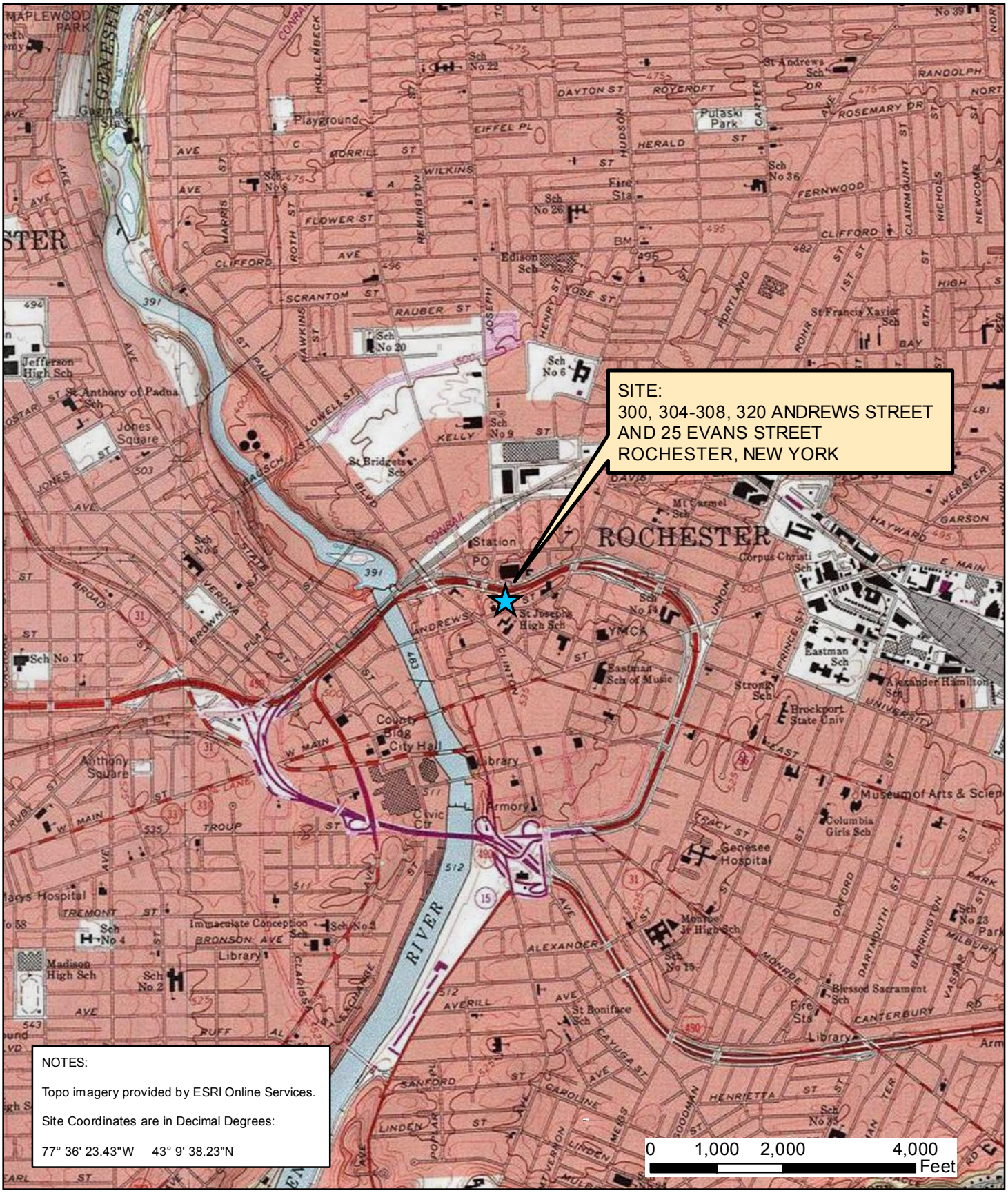
1. The requirements of the following plans were met during the reporting period:
   - IC/EC requirements.
   - Monitoring Plan requirements.
2. Identify any requirements not met: N/A
3. Identify any proposed plans and a schedule for coming into full compliance: N/A

B. Performance and Effectiveness of Remedy: An evaluation of the components of the SMP during this reporting period indicated that: the IC/EC controls were protective of human health and the environment; the monitoring plan continues to sufficiently monitor the performance of the remedy; and the remedial program is achieving the remedial objectives for the Site.

C. Future PRR submittals:

1. It is recommended that the frequency of PRR submittals (i.e., annual) remain unchanged.
2. Since residual contaminants remain beneath the cover system at the Site, it is recommended that related aspects of the SMP continue to be implemented at this Site. In addition, it is recommended that applicable sections of the SMP be revised at an appropriate time in the future to reflect decommissioning of select monitoring wells, on-going ISCO polishing activities approved by the NYSDEC, and modifications to the groundwater monitoring program that have been, or will be, approved by the NYSDEC.

FIGURES



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Date 09-26-2017 Drawn By CPS Scale AS NOTED	**DAY ENVIRONMENTAL, INC.** **Environmental Consultants** **Rochester, New York 14606** **New York, New York 10016-0701**	Project Title 300, 304-308, 320 ANDREWS STREET AND 25 EVANS STREET ROCHESTER, NEW YORK (NYSDEC SITE NO.: E828144) ENVIRONMENTAL RESTORATION PROJECT Drawing Title Project Locus Map	Project No. 5334S-17 FIGURE 1

PROJECT MANAGER	JAD
DATE	01-2020
DRAWN BY	CPS
DATE DRAWN	01-2020
SCALE	AS NOTED
DATE ISSUED	01-20-2020

day
DAY ENGINEERING, P.C.
Environmental Engineering Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
300, 304-308, 320 ANDREWS STREET
AND 25 EVANS STREET
ROCHESTER, NEW YORK

ENVIRONMENTAL RESTORATION PROJECT NYSDEC SITE NO.: E828144

Drawing Title
Site Plan

Project No.
5334S-17

FIGURE 2

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St Paul St/N Clinton Ave/Joseph Ave to Inner Loop Ramp

MW-11
MW-15
MW-01
IW-8
IW-4A
IW-4B
IW-1
IW-9
IW-10
IW-11
IW-12
MW-16
MW-19
25 EVANS ST
MW-18
IW-5
ISCO 1
ISCO 3
ISCO 2
ISCO 4
ISCO 6
ISCO 5
MW-17A
MW-02
ISCO 7
ISCO 8
MW-05
IW-7A
320
ANDREWS ST
IW-17
IW-20
MW-03A
IW-19
IW-18
304
ANDREWS ST
Former Evans St
Franklin Sq
Locked Gate
Bristol St
300
ANDREWS ST
Locked Gate
Andrews St

Legend

- Solid ISCO Treatment Riser
- Perforated ISCO Treatment Piping
- Overburden Injection Well
- Overburden Monitoring Well
- Polishing Phase PCE-Contaminated Soil Removal Area
- Fence
- Andrews Street ERP Site

N

NOTE:

Base mapping data provided by City of Rochester and Monroe County.

0 15 30 60 Feet

PROJECT MANAGER	DRAWN BY	SCALE	DATE
JAD	CPS	AS NOTED	12-2021

DATE DRAWN	DATE ISSUED
12-2021	12-09-2021

day
DAY ENGINEERING, P.C.
Environmental Engineering Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
300, 304-308, 320 ANDREWS STREET
AND 25 EVANS STREET
ROCHESTER, NEW YORK

ENVIRONMENTAL RESTORATION PROJECT NYSDEC SITE NO: E828144

Drawing Title
Site Plan with Remaining Monitoring Wells, Injection Wells and ISCO Treatment Piping

Project No.
5334S-17

FIGURE 3

Last date document was saved: 09 Dec 2021
Map document path: E:\GIS Mapping\Rocity\Andrews_Street\GIS_Data\Andrews_Street\PRR4\5334S-03-PRR4- RemainingWells.mxd

Legend

MW-11
515.65 ft
220 (15 ft)

Overburden monitoring well with groundwater elevation measured December 14, 2020.
Tetrachloroethene or PCE in ug/L (with depth of December 2020 groundwater sample in parentheses)

Groundwater contour interval 1 ft

Former Evans Street right-of-way (Officially abandoned by the City of Rochester in March 2013)

Andrews Street ERP Site

December 14, 2020 groundwater flow

ND = Not Detected
NT = Not Tested

N

MW-11 515.27 ft 22.6 (15 ft)
MW-15 516.95 ft 1 (17 ft)
MW-01 516.26 ft 2000 (23 ft)
MW-16 514.88 ft 6.1 (22.5 ft)
MW-19 516.39 ft 2 (28 ft)
MW-18 517.44 ft 2.7 (21.5 ft)
MW-02 517.56 ft 56.7 (23.8 ft)
MW-05 518.47 ft 32.1 (17 ft)
MW-17A 518.25 ft 4.8 (15.5 ft)
MW-03A 518.91 ft 410 (17 ft)
517
518

Cumberland St
Inner Loop
St Paul St/N Clinton Ave/Joseph Ave to Inner Loop Ramp
Joseph Ave
Franklin Sq
Bristol St
Former Evans St
Andrews St

NOTES:

Groundwater mapping generated using the Natural Neighbor method of interpolation in ArcGIS Spatial Analyst. This method depicts what the groundwater flow could be based on data collected. This model is approximate.

Base mapping data provided by City of Rochester and Monroe County.

0 25 50 100 Feet

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PROJECT MANAGER	JAD
DATE	12-2021
DRAWN BY	CPS
DATE DRAWN	12-2021
SCALE	AS NOTED
DATE ISSUED	12-09-2021

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

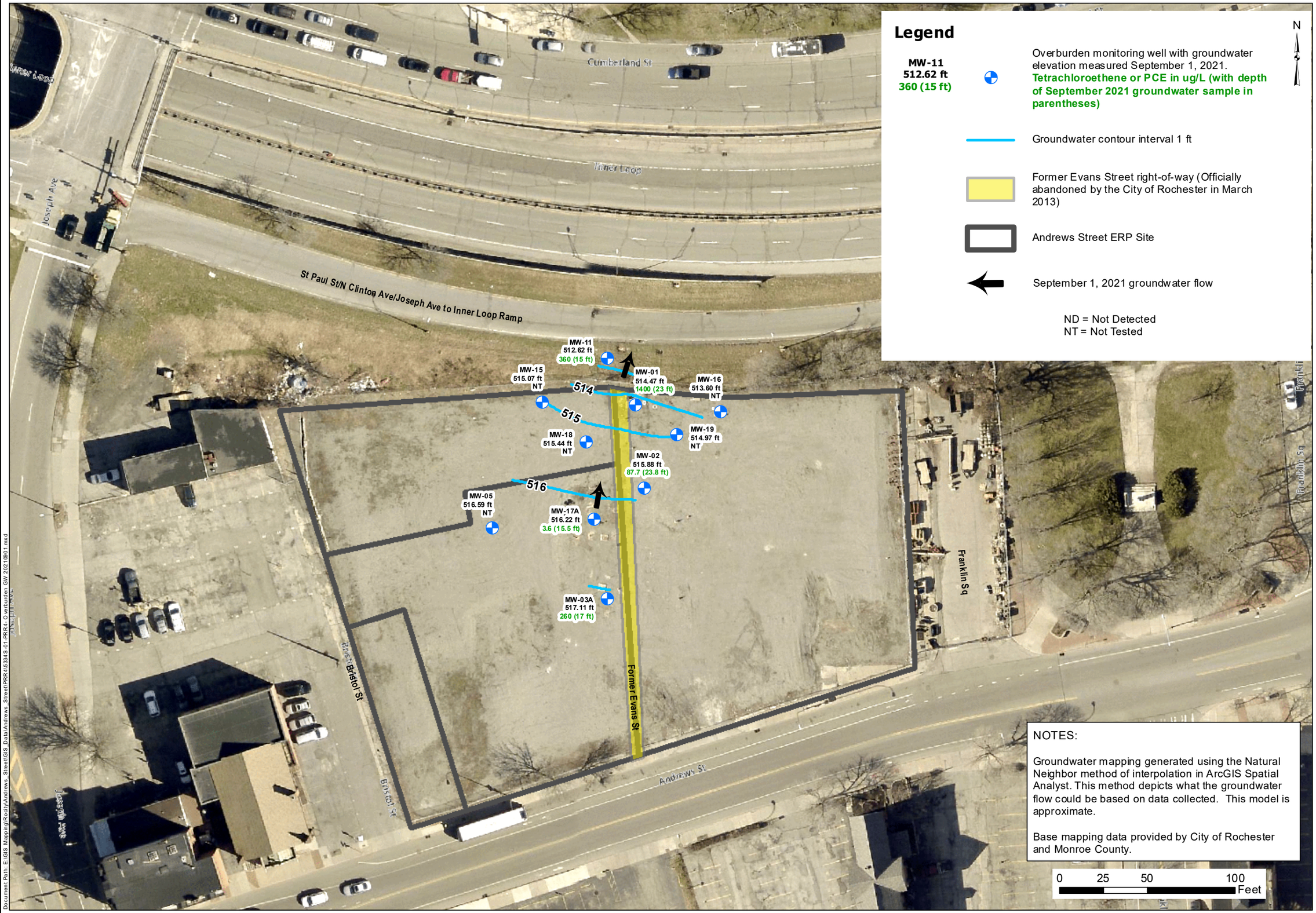
Project Title
300, 304-308, 320 ANDREWS STREET
AND 25 EVANS STREET
ROCHESTER, NEW YORK

ENVIRONMENTAL RESTORATION PROJECT NYSDEC SITE NO.: E828144

Drawing Title
Site Plan with Overburden Groundwater Potentiometric Map for December 14, 2020 and PCE Concentrations Detected in December 2020 Overburden Groundwater Samples

Project No.
5334S-17

FIGURE 4



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PROJECT MANAGER	JAD
DATE	12-2021
DRAWN BY	CPS
DATE DRAWN	12-2021
SCALE	AS NOTED
DATE ISSUED	12-9-2021

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
300, 304-308, 320 ANDREWS STREET
AND 25 EVANS STREET
ROCHESTER, NEW YORK

ENVIRONMENTAL RESTORATION PROJECT NYSDEC SITE NO.: E828144

Drawing Title
Site Plan with Overburden Groundwater Potentiometric Map for September 1, 2021 and PCE Concentrations Detected in September 2021 Overburden Groundwater Samples

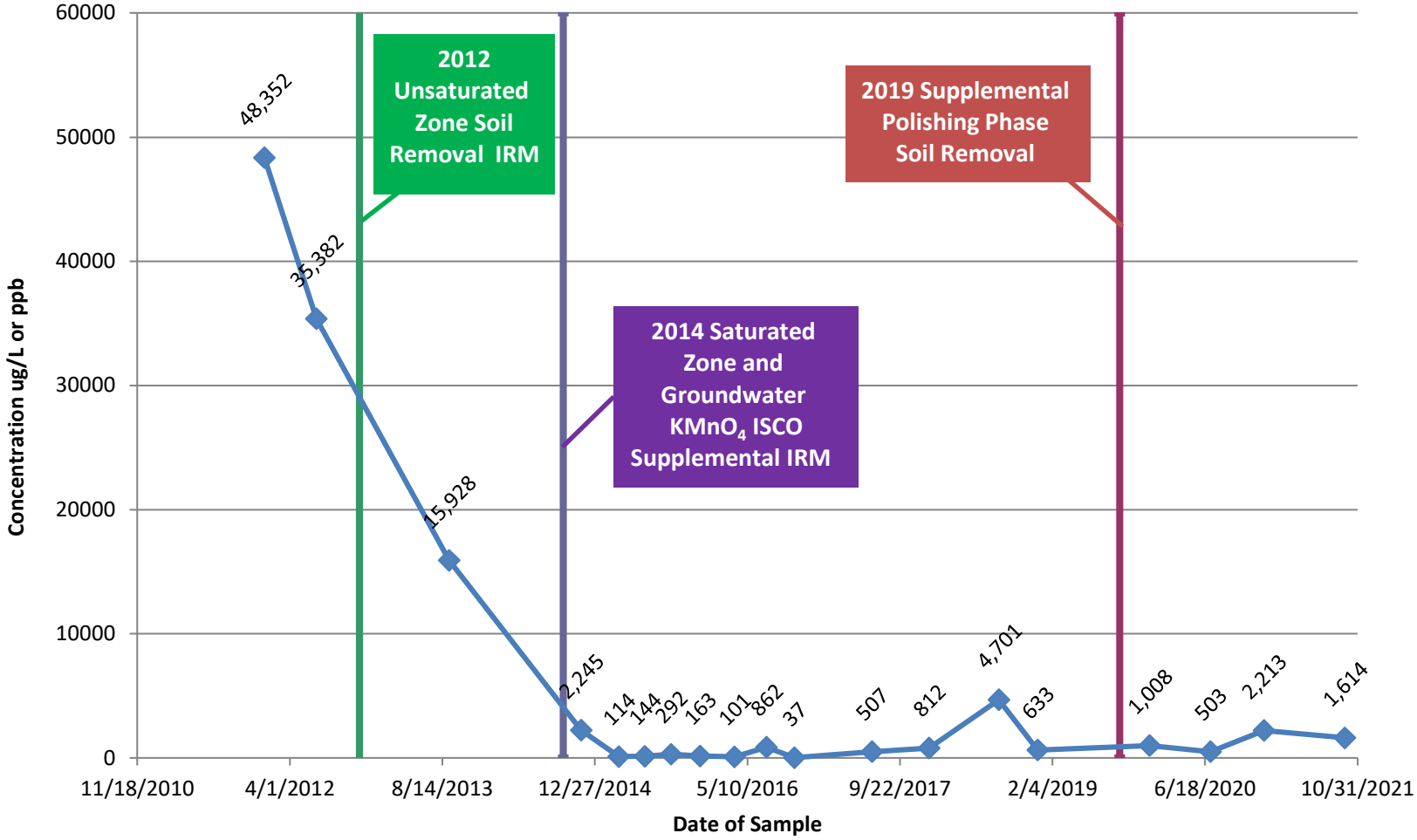
Project No.
5334S-17

FIGURE 5

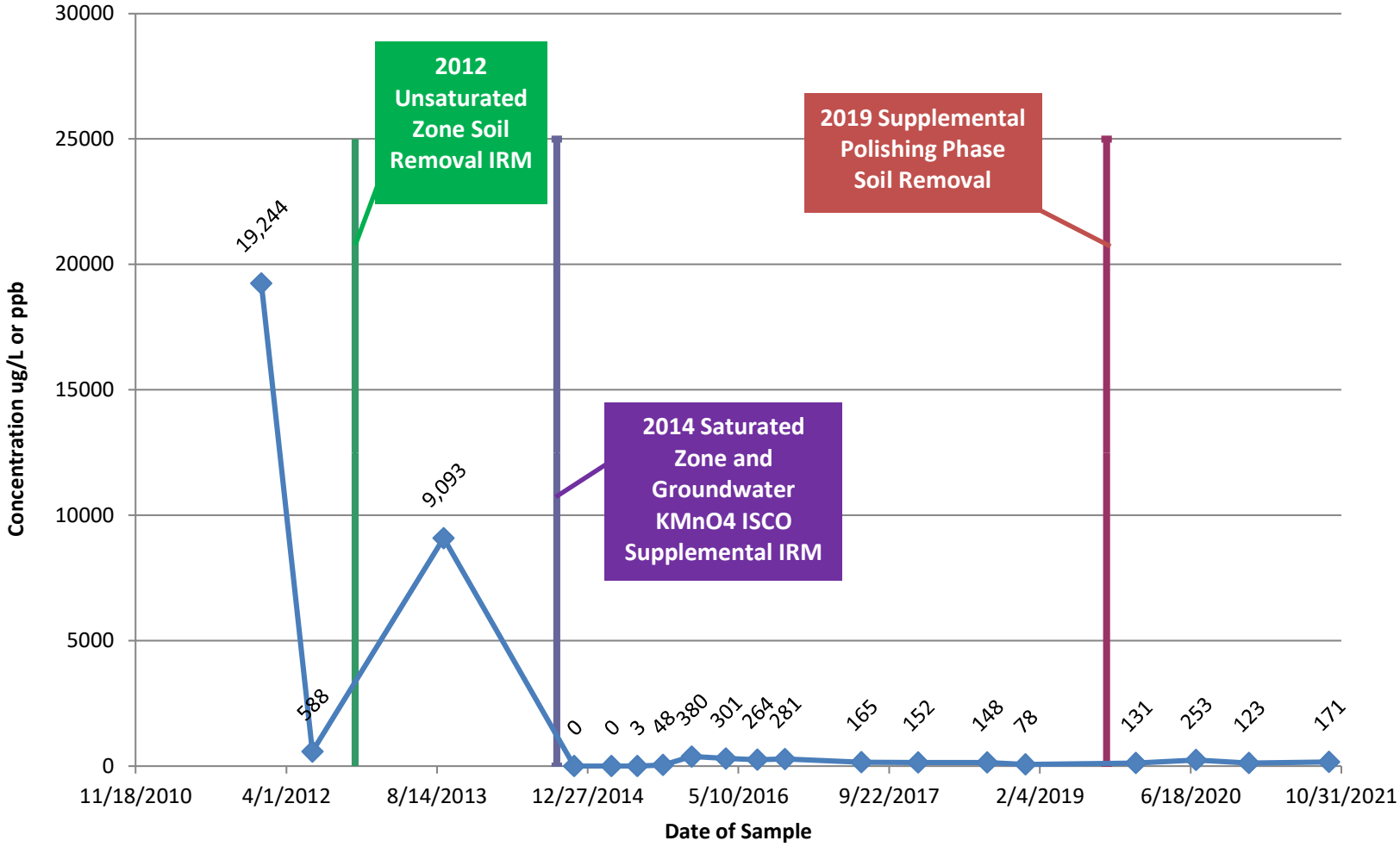
Attachment A

Groundwater Monitoring Documentation

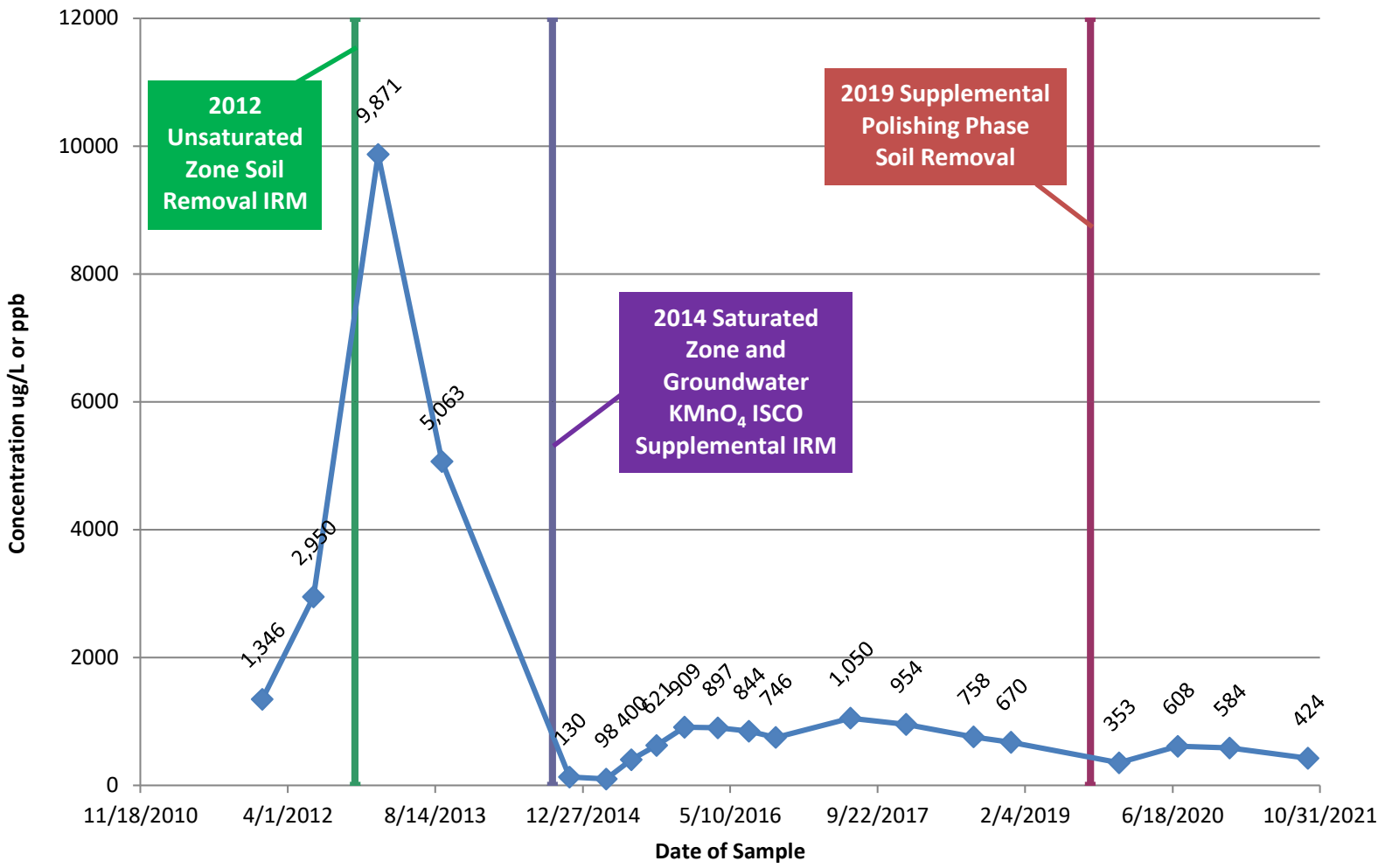
Graph A - Total PCE, TCE, DCE and VC In Groundwater at MW-01

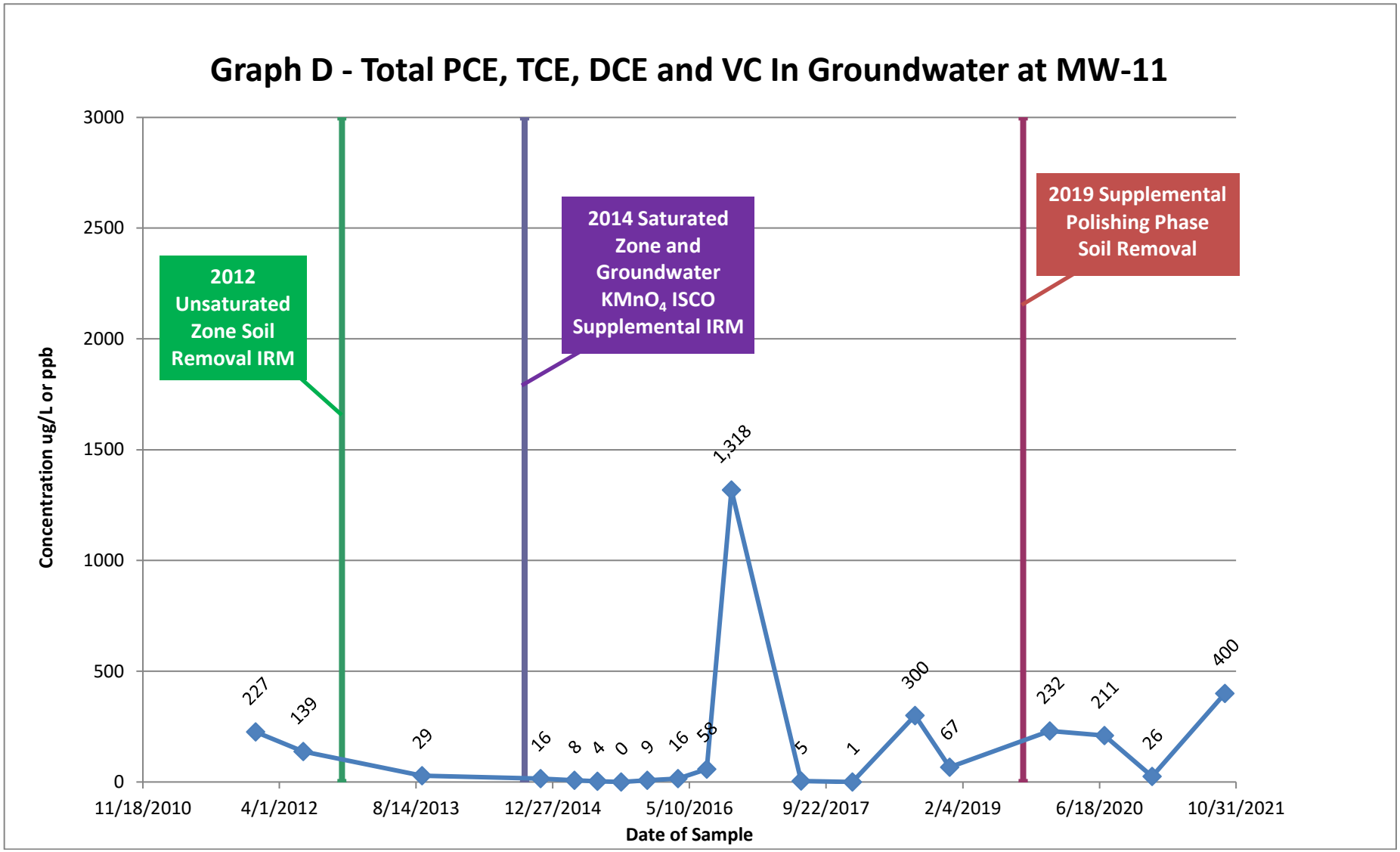


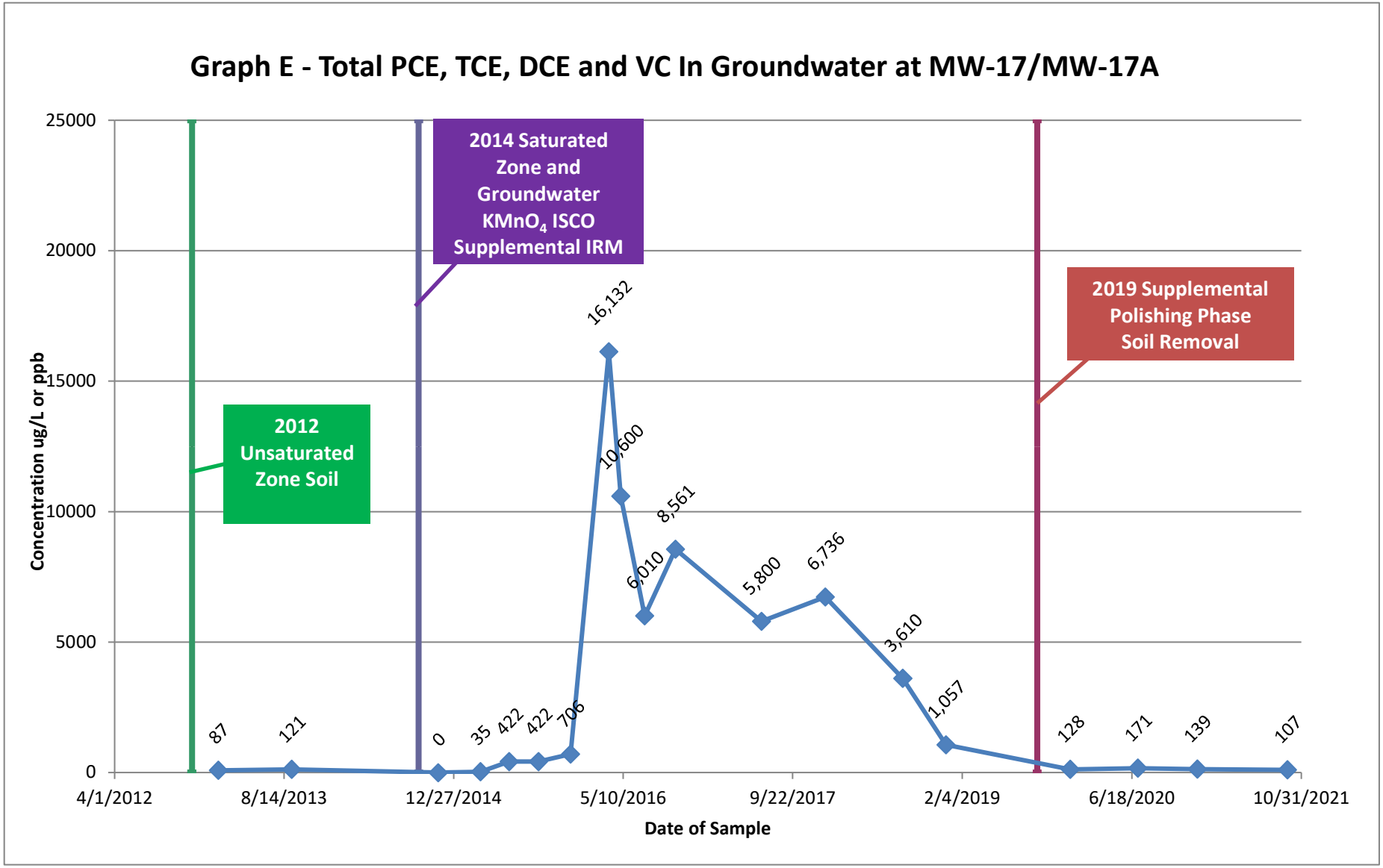
Graph B - Total PCE, TCE, DCE and VC In Groundwater at MW-02



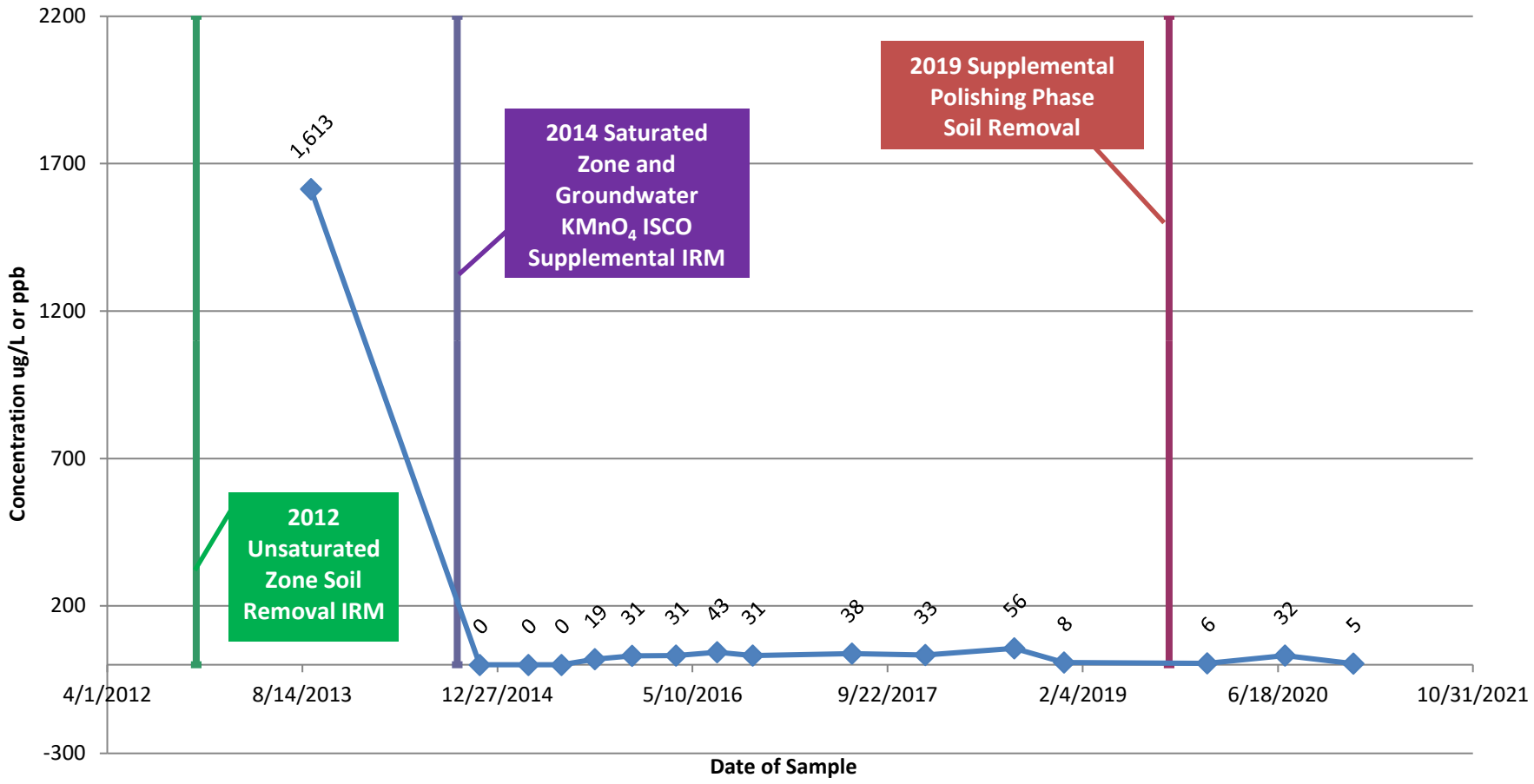
Graph C - Total PCE, TCE, DCE and VC In Groundwater at MW-03/MW-03A




Graph D - Total PCE, TCE, DCE and VC In Groundwater at MW-11
Concentration ug/L or ppb
3000
2500
2000
1500
1000
500
0
2012 Unsaturated Zone Soil Removal IRM
2014 Saturated Zone and Groundwater $KMnO_4$ ISCO Supplemental IRM
2019 Supplemental Polishing Phase Soil Removal
227
139
29
16
8
4
0
9
16
58
1,318
5
1
300
67
232
211
26
400
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
10/31/2021
Date of Sample

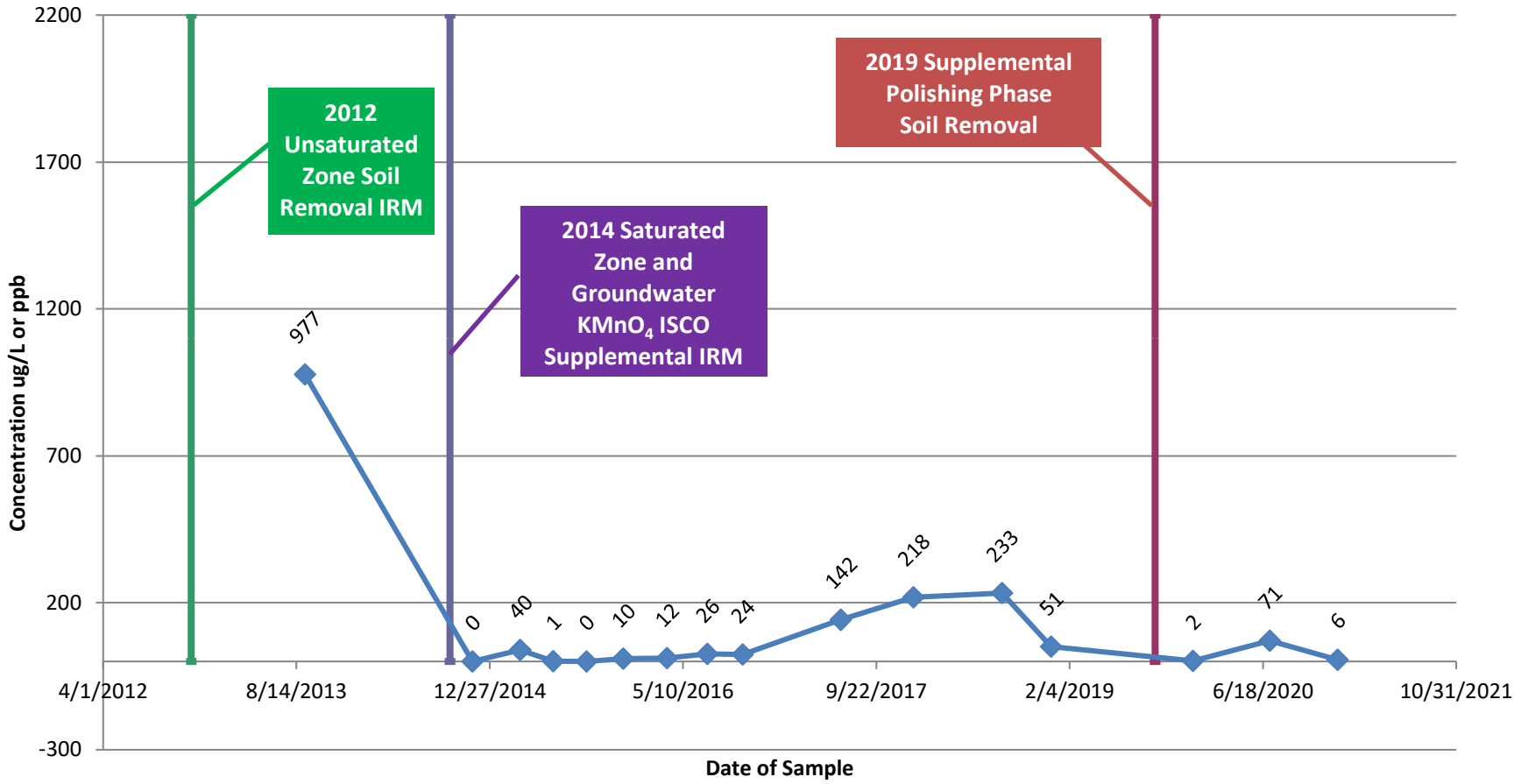

Graph E - Total PCE, TCE, DCE and VC In Groundwater at MW-17/MW-17A
2014 Saturated Zone and Groundwater $KMnO_4$ ISCO Supplemental IRM
2019 Supplemental Polishing Phase Soil Removal
2012 Unsaturated Zone Soil
Concentration ug/L or ppb
25000
20000
15000
10000
5000
0
87
121
0
35
422
422
706
16,132
10,600
8,561
6,010
5,800
6,736
3,610
1,057
128
171
139
107
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
10/31/2021
Date of Sample

Graph F - Total PCE, TCE, DCE and VC In Groundwater at MW-18



Note: Lab analysis of groundwater sample from MW-18 not required by NYSDEC after 12-28-2020 monitoring event

Graph G - Total PCE, TCE, DCE and VC In Groundwater at MW-19



Note: Lab analysis of groundwater sample from MW-19 not required by NYSDEC after 12-28-2020 monitoring event

Graph H - Cumulative Total PCE, TCE, DCE and VC in Groundwater for Wells MW-01, MW-02, MW-03/MW-03A

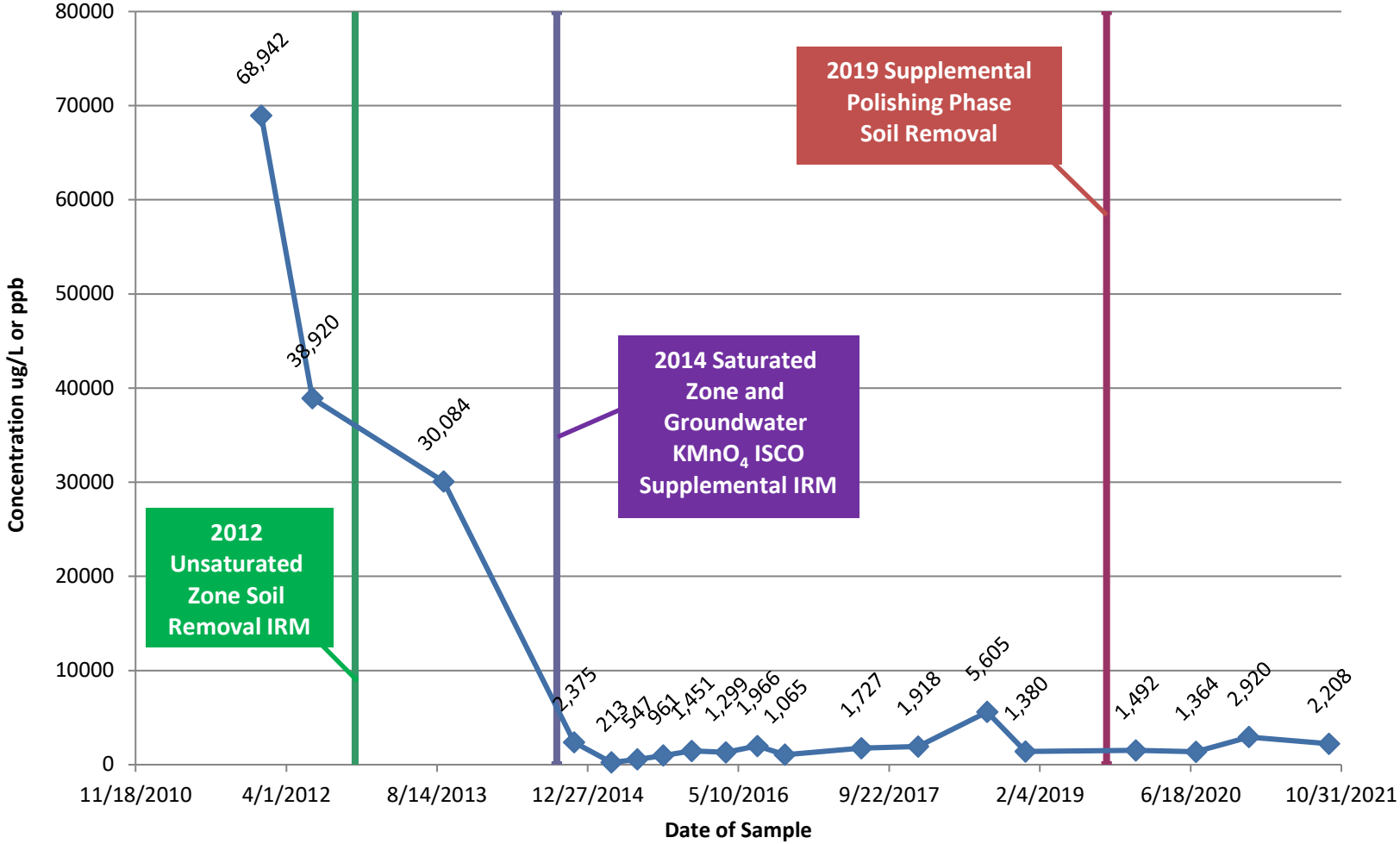


Table 1

300, 304-308, 320 Andrews St and 25 Evans St
Rochester, NY

NYSDEC Site #E828144

Sample Log

Lab Sample Number	Sample ID	Collection Date	Collection Time	Sampling Method	Depth (ft bgs)	Matrix	MS/MSD Collected	Collection Rationale	Analytical Test Parameters
1015	MW-01	12/28/2020	12:43	Grab	23	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1016	MW-02	12/28/2020	12:50	Grab	23.8	Ground-water	Yes	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1017	MW-03A	12/28/2020	12:56	Grab	17	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1018	MW-05	12/28/2020	12:59	Grab	17	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1019	MW-11	12/28/2020	13:35	Grab	15	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1020	MW-15	12/28/2020	13:08	Grab	17	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1021	MW-16	12/28/2020	13:12	Grab	22.5	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1022	MW-17A	12/28/2020	13:16	Grab	15.5	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1023	MW-18	12/28/2020	13:20	Grab	21.5	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1024	MW-19	12/28/2020	13:25	Grab	28	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1025	FB122820	12/28/2020	12:38	Grab	NA	Water	No	QA/QC - Field Blank	TCL VOCs and TICs
1026	TB122820	12/28/2020	NA	Grab	NA	Water	No	QA/QC - Trip Blank	TCL VOCs and TICs
1027	MW-01	9/20/2021	9:25	Grab	23	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1028	MW-02	9/20/2021	9:35	Grab	23.8	Ground-water	Yes	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1029	MW-03A	9/20/2021	9:40	Grab	17	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1030	MW-11	9/20/2021	9:58	Grab	15	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1031	MW-17A	9/20/2021	9:45	Grab	15.5	Ground-water	No	Post-Excavation Performance Groundwater Monitoring Event	TCL VOCs and TICs
1032	FB092021	9/20/2021	10:05	Grab	NA	Water	No	QA/QC - Field Blank	TCL VOCs and TICs
1033	TB092021	9/20/2021	NA	Grab	NA	Water	No	QA/QC - Trip Blank	TCL VOCs and TICs

Notes

(1) Approximate depth of sample as referenced to the sidewalk adjacent to Andrews Street with assumed datum of 0.00 feet prior to installation of cover system.

Depth for water samples was the depth in which the passive diffusion bag was set.

NA = Not Applicable bgs = below ground surface

Ft = Feet MS/MSD = Matrix Spike/Matrix Spike Duplicate

TCL VOCs - Target Compound List Volatile Organic Compounds, including Tentatively Identified Compounds (TICs) via Method 8260

Groundwater samples collected using passive diffusion samplers (PDBs).

Table 2

300, 304-308, 320 Andrews Street and 25 Evans Street
Rochester, NY

NYSDEC Site #E828144

Static Water Levels and Calculated Groundwater Elevations

Monitoring Well ID	Ground Elevation (ft) [1]	TOC Elevation (ft)	12/14/2020		9/1/2021	
			SWL (ft TOC)	Groundwater Elevation	SWL (ft TOC)	Groundwater Elevation
MW-01	527.79	527.44	11.18	516.26	12.97	514.47
MW-02	528.03	529.37	11.81	517.56	13.49	515.88
MW-03A	528.41	528.43	9.52	518.91	11.32	517.11
MW-05	527.83	530.75	12.28	518.47	14.16	516.59
MW-11	520.70	520.48	5.21	515.27	7.86	512.62
MW-15	527.62	530.29	13.34	516.95	15.22	515.07
MW-16	528.31	530.81	15.93	514.88	17.21	513.60
MW-17A	527.75	529.71	11.46	518.25	13.49	516.22
MW-18	527.24	529.81	12.37	517.44	14.37	515.44
MW-19	527.82	530.31	13.92	516.39	15.34	514.97
			Post-Excavation Performance Monitoring Event		Post-Excavation Performance Monitoring Event	

Notes

Monitoring Wells listed are overburden groundwater monitoring wells.

Ft TOC = Feet below top of casing

[1] Represents ground elevation prior to installation of #2 Crusher Run (CR2) cover system material as a Supplemental Interim Remedial Measure.

Table 3

300, 304-308 Andrews St and 25 Evans St
Rochester, NY
NYSDEC Site #E828144

Summary of Detected VOCs in mg/L or ppb
Overburden Groundwater Samples Analyzed During PRR #4 Reporting Period

Contaminant	X Groundwater Standard or Guidance Value	1015 MW-01 12/28/20 PDB 23 ft	1027 MW-01 9/20/21 PDB 23 ft	1016 MW-02 12/28/20 PDB 23.8 ft	1028 MW-02 9/20/21 PDB 23.8 ft	1017 MW-03A 12/28/20 PDB 17.0 ft	1029 MW-03A 9/20/21 PDB 17.0 ft	1018 MW-05 12/28/20 PDB 17.0 ft	1019 MW-11 12/28/20 PDB 15.0 ft	1030 MW-11 9/20/21 PDB 15.0 ft	1020 MW-15 12/28/20 PDB 17.0 ft	1021 MW-16 12/28/20 PDB 22.5 ft	1022 MW-17A 12/28/20 PDB 15.5 ft	1031 MW-17A 9/20/21 PDB 15.5 ft	1023 MW-18 12/28/20 PDB 21.5 ft	1024 MW-19 12/28/2020 PDB 28.0 ft
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Methyl Acetate	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	0.24 J	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Cis-1,2-Dichloroethene	5	110 X	95.4 X	28.3 X	33.5 X	74.5 X	75.4 X	U	1.1	17 X	U	3.6	100 X	86.6 X	1.2	2.0
Methyl tert-butyl Ether	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	0.44 J	U	U	U	U
trans-1,2-Dichloroethene	5	U	1.2	1.3	1.1	6.5 X	5.3 X	U	U	U	U	U	1.1	1.2	U	U
Tetrachloroethene	5	2000 D X	1400 DJH X	56.7 JH X	87.7 JH X	410 D X	260 DJH X	32.1 X	22.6 X	360 DJH X	1.0	6.1 X	4.8	3.6 JH	2.7	2.0
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Xylenes (Total)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	98 X	110 X	34.5 X	46.3 JH X	93.3 X	83 X	0.68 J	2.1	22.9 X	0.4 J	3.2	19.8 X	9.1 X	0.78 J	2.3
Trichlorofluoromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	2	4.6 J X	7.2 X	2	2.2 X	U	U	U	U	U	U	U	13.1 X	6.8 X	U	U
Carbon Disulfide	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylcyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	0.25 J	U	U	U
Bromodichloromethane	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs		2212.6	1613.8	122.8	170.8	584.3	423.7	32.78	25.8	399.9	1.4	13.34	139.29	107.3	4.68	6.3
Total TICs (1)		U	U	U	1.2	U	U	U	U	1.1	U	U	U	U	U	U
Total VOCs and TICs (1)		2212.6	1613.8	122.8	172	584.3	423.7	32.78	25.8	401	1.4	13.34	139.29	107.3	4.68	6.3

U = Not Detected
NA = Not Available
J = Estimated value
PDB - Passive Diffusion Bag
VOC = Volatile Organic Compound
X = Exceeds Groundwater Standard or Guidance Value.

UJ = Not Detected at an estimated detection limit as qualified by the data validator.
µg/L = micrograms per Liter or parts per billion (ppb).
Results of DUSR incorporated on analytical laboratory data
TIC = Tentatively Identified Compound

Groundwater Standards or Guidance Values referenced in NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

D = The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

(1) Refer to the analytical laboratory report for individual TICs detected and associated flags.

134	Sample ID
MW-01	Sample Location
1/9/2012	Sample Date
LF 20.5 ft	Sample Method with Sample Collection Depth in Feet Below the Ground Surface Prior to Installation of #2 Crusher Run (CR2) Cover System Material as a Supplemental Interim Remedial Measure.

Table 4

300, 304-308 Andrews St and 25 Evans St
Rochester, NY
NYSDEC Site #E828144

Summary of Detected VOCs in mg/L or ppb
QA/QC Samples Analyzed During PRR #4 Reporting Period

Contaminant	1025 FB122820 12/28/20	1026 TB122820 12/28/20	1032 FB092021 9/20/21	1033 TB092021 9/20/21
Acetone	6.9	U	15.8	1.8 J
Carbon Disulfide	U	U	U	U
Chloroform	U	U	U	U
Bromodichloromethane	U	U	U	U
Dibromochloromethane	U	U	U	U
2-Butanone	U	U	2.1 J	U
Tetrachloroethene	U	U	U	U
Methylene Chloride	U	U	U	U
4-Methyl-2-Pentanone	U	U	U	U
Cyclohexane	U	U	U	U
Toluene	U	U	0.31 J	U
Tetrachloroethene	U	U	0.36 J	U
Total VOCs	6.9	0	18.57	1.8
Total TICs (1)	5.4	U	6.9	U
Total VOCs and TICs (1)	12.3	0	25.47	1.8

Notes

QA/QC = Quality Assurance/Quality Control

μg/L = micrograms per Liter or parts per billion (ppb).

U = Not Detected

VOC = Volatile Organic Compound

TIC = Tentatively Identified Compound

(1) Refer to the analytical laboratory report for individual TICs detected and associated flags.

Results of DUSR incorporated on analytical laboratory data

1025	Sample ID
FB122820	Sample Location
12/28/20	Sample Date

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : ANDREW ST. RI

DAY ENVIRONMENTAL, INC.

Canalside Business Center, 1563 Lyell Avenue

Rochester, NY - 14606

Phone No: 585-454-0210

ORDER ID : L5236

ATTENTION : Jeff Danzinger

Table Of Contents for L5236

1) VOLATILES DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 13

9) QC Data Summary For VOC-TCLVOA-10 16

- 9.1) Deuterated Monitoring Compound Summary 17
- 9.2) MS/MSD Summary 19
- 9.3) LCS/LCSD Summary 23
- 9.4) Method Blank Summary 25
- 9.5) GS/MS Tune Summary 26
- 9.6) Internal Standard Area and RT Summary 28

10) Sample Data 34

- 10.1) 1015-MW-01(23) 35
- 10.2) 1015-MW-01(23)DL 50
- 10.3) 1016-MW-02(23.8) 61
- 10.4) 1017-MW-03A(17) 77
- 10.5) 1017-MW-03A(17)DL 93
- 10.6) 1018-MW-05(17) 104
- 10.7) 1019-MW-11(15) 119
- 10.8) 1020-MW-15(17) 134
- 10.9) 1021-MW-16(22.5) 149
- 10.10) 1022-MW-17A(15.5) 165
- 10.11) 1023-MW-18(21.5) 183
- 10.12) 1024-MW-19(28) 198
- 10.13) 1025-FB122820 213
- 10.14) 1026-TB122820 227

11) Calibration Data Summary 240

- 11.1) Initial Calibration Data 241
  - 11.1.1) VX121820 241
- 11.2) Continued Calibration Data 611
  - 11.2.1) VX020423.D 611

Table Of Contents for L5236

12) QC Sample Data 671

12.1) Tune Raw Data 672

12.2) Method Blank Data 674

12.3) LCS Data 687

12.4) MS Data 742

12.5) MSD Data 796

13) Manual Integration 850

14) Analytical Runlogs 852

15) Standard Prep Logs 860

16) Shipping Document 970

16.1) Chain Of Custody 971

16.2) Air Bill 973

16.3) Lab Certificate 974

16.4) Internal COC 975

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : L5236

Project ID : Andrew St. RI

Client : Day Environmental, Inc.

Lab Sample Number	Client Sample Number
L5236-01	1015-MW-01(23)
L5236-02	1016-MW-02(23.8)
L5236-03	1016-MW-02(23.8)MS
L5236-04	1016-MW-02(23.8)MSD
L5236-05	1017-MW-03A(17)
L5236-06	1018-MW-05(17)
L5236-07	1019-MW-11(15)
L5236-08	1020-MW-15(17)
L5236-09	1021-MW-16(22.5)
L5236-10	1022-MW-17A(15.5)
L5236-11	1023-MW-18(21.5)
L5236-12	1024-MW-19(28)
L5236-13	1025-FB122820
L5236-14	1026-TB122820

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:16 am, Jan 13, 2021
Date: 1/4/2021

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Day Environmental, Inc.
Project Name: Andrew St. RI
Project # N/A
Chemtech Project # L5236
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
14 Water samples were received on 12/29/2020.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS {L5236-03MS} with File ID: VX020443.D recoveries met the requirements for all compounds except for Tetrachloroethene[127%] due to sample matrix interference.
The MSD {L5236-04MSD} with File ID: VX020444.D recoveries met the acceptable requirements except for Tetrachloroethene[127%] due to sample matrix interference.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Samples 1015-MW-01(23) was diluted as per past history of samples.
Samples 1015-MW-01(23), 1017-MW-03A(17) were diluted due to high concentrations.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:16 am, Jan 13, 2021

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: L5236 MATRIX: Water

METHOD: 8260-Low

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {L5236-03MS} with File ID: VX020443.D recoveries met the requirements for all compounds except for Tetrachloroethene[127%] due to sample matrix interference. The MSD {L5236-04MSD} with File ID: VX020444.D recoveries met the acceptable requirements except for Tetrachloroethene[127%] due to sample matrix interference.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

Samples 1015-MW-01(23) was diluted as per past history of samples.

Samples 1015-MW-01(23), 1017-MW-03A(17) were diluted due to high concentrations.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 8:46 am, Jan 13, 2021

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: L5236

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 01/04/2021

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:17 am, Jan 13, 2021

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LAB CHRONICLE

OrderID:	L5236	**OrderDate:**	12/29/2020 11:21:00 AM
Client:	Day Environmental, Inc.	**Project:**	Andrew St. RI
Contact:	Jeff Danzinger	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
L5236-01	**1015-MW-01(23)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-01DL	**1015-MW-01(23)DL**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-02	**1016-MW-02(23.8)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-05	**1017-MW-03A(17)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-05DL	**1017-MW-03A(17)DL**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-06	**1018-MW-05(17)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-07	**1019-MW-11(15)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-08	**1020-MW-15(17)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-09	**1021-MW-16(22.5)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-10	**1022-MW-17A(15.5)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-11	**1023-MW-18(121.5)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	
L5236-12	**1024-MW-19(28)**	**Water**			**12/28/20**			**12/29/20**
			VOC-TCLVOA-10	8260-Low			12/29/20	

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LAB CHRONICLE

L5236-13	**1025-FB122820**	**Water**			**12/28/20**	**12/29/20**
			VOC-TCLVOA-10	8260-Low		12/29/20
L5236-14	**1026-TB122820**	**Water**			**12/28/20**	**12/29/20**
			VOC-TCLVOA-10	8260-Low		12/29/20

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Hit Summary Sheet
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**1015-MW-01(23)**							
L5236-01	1015-MW-01(23)	Water	Vinyl Chloride	4.60	J	1.60	10.0	ug/L
L5236-01	1015-MW-01(23)	Water	cis-1,2-Dichloroethene	110.00		3.00	10.0	ug/L
L5236-01	1015-MW-01(23)	Water	Trichloroethene	98.00		2.70	10.0	ug/L
L5236-01	1015-MW-01(23)	Water	Tetrachloroethene	1,800.00	E	1.50	10.0	ug/L
			Total Voc :	2012.6				
			Total Concentration:	2012.6				
Client ID:	**1015-MW-01(23)DL**							
L5236-01DL	1015-MW-01(23)DL	Water	Vinyl Chloride	5.40	JD	3.20	20.0	ug/L
L5236-01DL	1015-MW-01(23)DL	Water	cis-1,2-Dichloroethene	120.00	D	5.90	20.0	ug/L
L5236-01DL	1015-MW-01(23)DL	Water	Trichloroethene	110.00	D	5.40	20.0	ug/L
L5236-01DL	1015-MW-01(23)DL	Water	Tetrachloroethene	2,000.00	D	3.10	20.0	ug/L
			Total Voc :	2235.4				
			Total Concentration:	2235.4				
Client ID:	**1016-MW-02(23.8)**							
L5236-02	1016-MW-02(23.8)	Water	Vinyl Chloride	2.00		0.16	1.00	ug/L
L5236-02	1016-MW-02(23.8)	Water	Acetone	3.50	J	0.90	5.00	ug/L
L5236-02	1016-MW-02(23.8)	Water	trans-1,2-Dichloroethene	1.30		0.24	1.00	ug/L
L5236-02	1016-MW-02(23.8)	Water	cis-1,2-Dichloroethene	28.30		0.30	1.00	ug/L
L5236-02	1016-MW-02(23.8)	Water	Trichloroethene	34.50		0.27	1.00	ug/L
L5236-02	1016-MW-02(23.8)	Water	Tetrachloroethene	56.70		0.15	1.00	ug/L
			Total Voc :	126.3				
			Total Concentration:	126.3				
Client ID:	**1017-MW-03A(17)**							
L5236-05	1017-MW-03A(17)	Water	Acetone	3.80	J	0.90	5.00	ug/L
L5236-05	1017-MW-03A(17)	Water	trans-1,2-Dichloroethene	6.50		0.24	1.00	ug/L
L5236-05	1017-MW-03A(17)	Water	cis-1,2-Dichloroethene	74.50		0.30	1.00	ug/L
L5236-05	1017-MW-03A(17)	Water	Trichloroethene	93.30		0.27	1.00	ug/L
L5236-05	1017-MW-03A(17)	Water	Tetrachloroethene	430.00	E	0.15	1.00	ug/L
			Total Voc :	608.1				
			Total Concentration:	608.1				
Client ID:	**1017-MW-03A(17)DL**							
L5236-05DL	1017-MW-03A(17)DL	Water	trans-1,2-Dichloroethene	6.10	D	1.20	5.00	ug/L
L5236-05DL	1017-MW-03A(17)DL	Water	cis-1,2-Dichloroethene	69.90	D	1.50	5.00	ug/L
L5236-05DL	1017-MW-03A(17)DL	Water	Trichloroethene	90.50	D	1.30	5.00	ug/L
L5236-05DL	1017-MW-03A(17)DL	Water	Tetrachloroethene	410.00	D	0.77	5.00	ug/L
			Total Voc :	576.5				
			Total Concentration:	576.5				
Client ID:	**1018-MW-05(17)**							
L5236-06	1018-MW-05(17)	Water	Acetone	3.80	J	0.90	5.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
L5236-06	1018-MW-05(17)	Water	Trichloroethene	0.68	J	0.27	1.00	ug/L
L5236-06	1018-MW-05(17)	Water	Tetrachloroethene	32.10		0.15	1.00	ug/L
			Total Voc :	36.58				
			Total Concentration:	36.58				
Client ID:	**1019-MW-11(15)**							
L5236-07	1019-MW-11(15)	Water	Acetone	3.60	J	0.90	5.00	ug/L
L5236-07	1019-MW-11(15)	Water	cis-1,2-Dichloroethene	1.10		0.30	1.00	ug/L
L5236-07	1019-MW-11(15)	Water	Trichloroethene	2.10		0.27	1.00	ug/L
L5236-07	1019-MW-11(15)	Water	Tetrachloroethene	22.60		0.15	1.00	ug/L
			Total Voc :	29.4				
			Total Concentration:	29.4				
Client ID:	**1020-MW-15(17)**							
L5236-08	1020-MW-15(17)	Water	Acetone	4.00	J	0.90	5.00	ug/L
L5236-08	1020-MW-15(17)	Water	Trichloroethene	0.40	J	0.27	1.00	ug/L
L5236-08	1020-MW-15(17)	Water	Tetrachloroethene	1.00		0.15	1.00	ug/L
			Total Voc :	5.4				
			Total Concentration:	5.4				
Client ID:	**1021-MW-16(22.5)**							
L5236-09	1021-MW-16(22.5)	Water	Acetone	4.00	J	0.90	5.00	ug/L
L5236-09	1021-MW-16(22.5)	Water	Methylene Chloride	0.44	J	0.33	1.00	ug/L
L5236-09	1021-MW-16(22.5)	Water	cis-1,2-Dichloroethene	3.60		0.30	1.00	ug/L
L5236-09	1021-MW-16(22.5)	Water	Trichloroethene	3.20		0.27	1.00	ug/L
L5236-09	1021-MW-16(22.5)	Water	Tetrachloroethene	6.10		0.15	1.00	ug/L
			Total Voc :	17.34				
			Total Concentration:	17.34				
Client ID:	**1022-MW-17A(15.5)**							
L5236-10	1022-MW-17A(15.5)	Water	Vinyl Chloride	13.10		0.16	1.00	ug/L
L5236-10	1022-MW-17A(15.5)	Water	Acetone	4.20	J	0.90	5.00	ug/L
L5236-10	1022-MW-17A(15.5)	Water	trans-1,2-Dichloroethene	1.10		0.24	1.00	ug/L
L5236-10	1022-MW-17A(15.5)	Water	cis-1,2-Dichloroethene	100.00		0.30	1.00	ug/L
L5236-10	1022-MW-17A(15.5)	Water	Methylcyclohexane	0.25	J	0.17	1.00	ug/L
L5236-10	1022-MW-17A(15.5)	Water	Benzene	0.24	J	0.10	1.00	ug/L
L5236-10	1022-MW-17A(15.5)	Water	Trichloroethene	19.80		0.27	1.00	ug/L
L5236-10	1022-MW-17A(15.5)	Water	Tetrachloroethene	4.80		0.15	1.00	ug/L
			Total Voc :	143.49				
			Total Concentration:	143.49				
Client ID:	**1023-MW-18(121.5)**							
L5236-11	1023-MW-18(121.5)	Water	Acetone	4.10	J	0.90	5.00	ug/L
L5236-11	1023-MW-18(121.5)	Water	cis-1,2-Dichloroethene	1.20		0.30	1.00	ug/L
L5236-11	1023-MW-18(121.5)	Water	Trichloroethene	0.78	J	0.27	1.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
L5236-11	1023-MW-18(121.5)	Water	Tetrachloroethene		2.70		0.15	1.00	ug/L
			Total Voc :		8.78				
			Total Concentration:		8.78				
Client ID:	**1024-MW-19(28)**								
L5236-12	1024-MW-19(28)	Water	Acetone		4.30	J	0.90	5.00	ug/L
L5236-12	1024-MW-19(28)	Water	cis-1,2-Dichloroethene		2.00		0.30	1.00	ug/L
L5236-12	1024-MW-19(28)	Water	Trichloroethene		2.30		0.27	1.00	ug/L
L5236-12	1024-MW-19(28)	Water	Tetrachloroethene		2.00		0.15	1.00	ug/L
			Total Voc :		10.6				
			Total Concentration:		10.6				
Client ID:	**1025-FB122820**								
L5236-13	1025-FB122820	Water	Acetone		6.90		0.90	5.00	ug/L
			Total Voc :		6.9				
L5236-13	1025-FB122820	Water	1-Hexanol, 2-ethyl-	*	5.40	J	0	0	ug/L
			Total Tics :		5.4				
			Total Concentration:		12.3				

QC SUMMARY

Surrogate Summary

SDG No.: L5236

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
L5236-01	1015-MW-01(23)	1,2-Dichloroethane-d4	50	45.4	91	78	117
		Dibromofluoromethane	50	48.4	97	75	124
		Toluene-d8	50	49.3	99	92	112
		4-Bromofluorobenzene	50	46.0	92	83	123
L5236-01DL	1015-MW-01(23)DL	1,2-Dichloroethane-d4	50	44.5	89	78	117
		Dibromofluoromethane	50	48.5	97	75	124
		Toluene-d8	50	49.2	98	92	112
		4-Bromofluorobenzene	50	46.5	93	83	123
L5236-02	1016-MW-02(23.8)	1,2-Dichloroethane-d4	50	44.8	90	78	117
		Dibromofluoromethane	50	48.7	97	75	124
		Toluene-d8	50	49.5	99	92	112
		4-Bromofluorobenzene	50	45.8	92	83	123
L5236-03MS	1016-MW-02(23.8)MS	1,2-Dichloroethane-d4	50	46.9	94	78	117
		Dibromofluoromethane	50	49.9	100	75	124
		Toluene-d8	50	50.2	100	92	112
		4-Bromofluorobenzene	50	50.7	101	83	123
L5236-04MSD	1016-MW-02(23.8)MSD	1,2-Dichloroethane-d4	50	44.8	90	78	117
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	50.2	100	92	112
		4-Bromofluorobenzene	50	51.5	103	83	123
L5236-05	1017-MW-03A(17)	1,2-Dichloroethane-d4	50	44.3	89	78	117
		Dibromofluoromethane	50	48.5	97	75	124
		Toluene-d8	50	48.8	98	92	112
		4-Bromofluorobenzene	50	44.3	89	83	123
L5236-05DL	1017-MW-03A(17)DL	1,2-Dichloroethane-d4	50	44.0	88	78	117
		Dibromofluoromethane	50	48.2	96	75	124
		Toluene-d8	50	49.5	99	92	112
		4-Bromofluorobenzene	50	49.6	99	83	123
L5236-06	1018-MW-05(17)	1,2-Dichloroethane-d4	50	44.9	90	78	117
		Dibromofluoromethane	50	49.9	100	75	124
		Toluene-d8	50	49.1	98	92	112
		4-Bromofluorobenzene	50	45.1	90	83	123
L5236-07	1019-MW-11(15)	1,2-Dichloroethane-d4	50	44.5	89	78	117
		Dibromofluoromethane	50	48.3	97	75	124
		Toluene-d8	50	48.4	97	92	112
		4-Bromofluorobenzene	50	44.7	89	83	123
L5236-08	1020-MW-15(17)	1,2-Dichloroethane-d4	50	45.1	90	78	117
		Dibromofluoromethane	50	48.8	98	75	124
		Toluene-d8	50	48.8	98	92	112
		4-Bromofluorobenzene	50	43.8	88	83	123
L5236-09	1021-MW-16(22.5)	1,2-Dichloroethane-d4	50	45.4	91	78	117
		Dibromofluoromethane	50	49.1	98	75	124
		Toluene-d8	50	48.5	97	92	112
		4-Bromofluorobenzene	50	44.6	89	83	123
L5236-10	1022-MW-17A(15.5)	1,2-Dichloroethane-d4	50	44.3	89	78	117
		Dibromofluoromethane	50	48.9	98	75	124
		Toluene-d8	50	48.4	97	92	112
		4-Bromofluorobenzene	50	43.6	87	83	123
L5236-11	1023-MW-18(121.5)	1,2-Dichloroethane-d4	50	45.0	90	78	117
		Dibromofluoromethane	50	49.3	99	75	124
		Toluene-d8	50	49.0	98	92	112
		4-Bromofluorobenzene	50	44.3	89	83	123

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Surrogate Summary

SDG No.: L5236

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
L5236-12	1024-MW-19(28)	1,2-Dichloroethane-d4	50	45.1	90	78	117
		Dibromofluoromethane	50	49.5	99	75	124
		Toluene-d8	50	49.3	99	92	112
		4-Bromofluorobenzene	50	45.8	92	83	123
L5236-13	1025-FB122820	1,2-Dichloroethane-d4	50	45.9	92	78	117
		Dibromofluoromethane	50	49.2	98	75	124
		Toluene-d8	50	49.9	100	92	112
		4-Bromofluorobenzene	50	45.2	90	83	123
L5236-14	1026-TB122820	1,2-Dichloroethane-d4	50	43.0	86	78	117
		Dibromofluoromethane	50	47.6	95	75	124
		Toluene-d8	50	48.8	98	92	112
		4-Bromofluorobenzene	50	46.4	93	83	123
VX1229WBL01	VX1229WBL01	1,2-Dichloroethane-d4	50	44.4	89	78	117
		Dibromofluoromethane	50	48.0	96	75	124
		Toluene-d8	50	49.0	98	92	112
		4-Bromofluorobenzene	50	46.2	92	83	123
VX1229WBS01	VX1229WBS01	1,2-Dichloroethane-d4	50	45.2	90	78	117
		Dibromofluoromethane	50	49.8	100	75	124
		Toluene-d8	50	49.5	99	92	112
		4-Bromofluorobenzene	50	50.7	101	83	123

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : L5236-03MS		**Client Sample ID : 1016-MW-02(23.8)MS**						**Datafile :** VX020443.D			
Dichlorodifluoromethane	50	0	45.7	ug/L	91				73	120	
Chloromethane	50	0	46.1	ug/L	92				58	133	
Vinyl chloride	50	2.00	46.5	ug/L	89				69	125	
Bromomethane	50	0	41.3	ug/L	83				45	135	
Chloroethane	50	0	45.1	ug/L	90				77	119	
Trichlorofluoromethane	50	0	44.8	ug/L	90				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	45.7	ug/L	91				75	117	
1,1-Dichloroethene	50	0	45.1	ug/L	90				77	118	
Acetone	250	3.50	220	ug/L	87				57	139	
Carbon disulfide	50	0	43.6	ug/L	87				67	118	
Methyl tert-butyl Ether	50	0	48.4	ug/L	97				60	148	
Methyl Acetate	50	0	52.1	ug/L	104				60	133	
Methylene Chloride	50	0	45.8	ug/L	92				79	115	
trans-1,2-Dichloroethene	50	1.30	47.9	ug/L	93				60	133	
1,1-Dichloroethane	50	0	48.1	ug/L	96				78	122	
Cyclohexane	50	0	49.0	ug/L	98				71	119	
2-Butanone	250	0	260	ug/L	104				67	137	
Carbon Tetrachloride	50	0	49.6	ug/L	99				84	115	
cis-1,2-Dichloroethene	50	28.3	80.1	ug/L	104				56	145	
Bromochloromethane	50	0	46.6	ug/L	93				72	130	
Chloroform	50	0	48.3	ug/L	97				83	119	
1,1,1-Trichloroethane	50	0	48.9	ug/L	98				83	117	
Methylcyclohexane	50	0	47.8	ug/L	96				64	120	
Benzene	50	0	48.6	ug/L	97				83	115	
1,2-Dichloroethane	50	0	46.1	ug/L	92				76	120	
Trichloroethene	50	34.5	86.1	ug/L	103				45	149	
1,2-Dichloropropane	50	0	50.6	ug/L	101				85	116	
Bromodichloromethane	50	0	50.8	ug/L	102				86	117	
4-Methyl-2-Pentanone	250	0	270	ug/L	108				72	137	
Toluene	50	0	50.0	ug/L	100				85	115	
t-1,3-Dichloropropene	50	0	49.3	ug/L	99				78	117	
cis-1,3-Dichloropropene	50	0	48.5	ug/L	97				77	115	
1,1,2-Trichloroethane	50	0	50.2	ug/L	100				87	119	
2-Hexanone	250	0	280	ug/L	112				75	131	
Dibromochloromethane	50	0	52.6	ug/L	105				88	118	
1,2-Dibromoethane	50	0	50.0	ug/L	100				85	119	
Tetrachloroethene	50	56.7	120	ug/L	127	*			65	114	
Chlorobenzene	50	0	48.4	ug/L	97				62	141	
Ethyl Benzene	50	0	50.3	ug/L	101				62	134	
m/p-Xylenes	100	0	99.9	ug/L	100				83	117	
o-Xylene	50	0	49.6	ug/L	99				81	120	
Styrene	50	0	51.6	ug/L	103				53	143	
Bromoform	50	0	54.6	ug/L	109				83	121	
Isopropylbenzene	50	0	50.5	ug/L	101				76	121	
1,1,2,2-Tetrachloroethane	50	0	51.3	ug/L	103				66	145	
1,3-Dichlorobenzene	50	0	49.0	ug/L	98				84	110	
1,4-Dichlorobenzene	50	0	47.1	ug/L	94				81	111	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	48.9	ug/L	98				82	113	
1,2-Dibromo-3-Chloropropane	50	0	51.2	ug/L	102				55	152	
1,2,4-Trichlorobenzene	50	0	47.1	ug/L	94				73	120	
1,2,3-Trichlorobenzene	50	0	48.3	ug/L	97				75	119	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : L5236-04MSD	**Client Sample ID :** 1016-MW-02(23.8)MSD							**Datafile :** VX020444.D			
Dichlorodifluoromethane	50	0	44.2	ug/L	88		3		73	120	20
Chloromethane	50	0	45.7	ug/L	91		1		58	133	20
Vinyl chloride	50	2.00	45.5	ug/L	87		2		69	125	20
Bromomethane	50	0	43.9	ug/L	88		6		45	135	20
Chloroethane	50	0	43.0	ug/L	86		5		77	119	20
Trichlorofluoromethane	50	0	43.7	ug/L	87		2		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	46.3	ug/L	93		1		75	117	20
1,1-Dichloroethene	50	0	45.4	ug/L	91		1		77	118	20
Acetone	250	3.50	220	ug/L	87		0		57	139	20
Carbon disulfide	50	0	42.9	ug/L	86		2		67	118	20
Methyl tert-butyl Ether	50	0	47.8	ug/L	96		1		60	148	20
Methyl Acetate	50	0	50.3	ug/L	101		4		60	133	20
Methylene Chloride	50	0	44.3	ug/L	89		3		79	115	20
trans-1,2-Dichloroethene	50	1.30	47.0	ug/L	91		2		60	133	20
1,1-Dichloroethane	50	0	47.4	ug/L	95		1		78	122	20
Cyclohexane	50	0	47.7	ug/L	95		3		71	119	20
2-Butanone	250	0	250	ug/L	100		4		67	137	20
Carbon Tetrachloride	50	0	51.3	ug/L	103		3		84	115	20
cis-1,2-Dichloroethene	50	28.3	79.2	ug/L	102		2		56	145	20
Bromochloromethane	50	0	44.6	ug/L	89		4		72	130	20
Chloroform	50	0	47.2	ug/L	94		2		83	119	20
1,1,1-Trichloroethane	50	0	47.8	ug/L	96		2		83	117	20
Methylcyclohexane	50	0	48.5	ug/L	97		1		64	120	20
Benzene	50	0	50.1	ug/L	100		3		83	115	20
1,2-Dichloroethane	50	0	46.9	ug/L	94		2		76	120	20
Trichloroethene	50	34.5	89.9	ug/L	111		7		45	149	20
1,2-Dichloropropane	50	0	51.1	ug/L	102		1		85	116	20
Bromodichloromethane	50	0	51.5	ug/L	103		1		86	117	20
4-Methyl-2-Pentanone	250	0	280	ug/L	112		4		72	137	20
Toluene	50	0	51.8	ug/L	104		4		85	115	20
t-1,3-Dichloropropene	50	0	50.8	ug/L	102		3		78	117	20
cis-1,3-Dichloropropene	50	0	50.7	ug/L	101		4		77	115	20
1,1,2-Trichloroethane	50	0	51.7	ug/L	103		3		87	119	20
2-Hexanone	250	0	280	ug/L	112		0		75	131	20
Dibromochloromethane	50	0	54.1	ug/L	108		3		88	118	20
1,2-Dibromoethane	50	0	51.7	ug/L	103		3		85	119	20
Tetrachloroethene	50	56.7	120	ug/L	127	*	0		65	114	20
Chlorobenzene	50	0	49.2	ug/L	98		2		62	141	20
Ethyl Benzene	50	0	50.1	ug/L	100		0		62	134	20
m/p-Xylenes	100	0	100	ug/L	100		0		83	117	20
o-Xylene	50	0	51.2	ug/L	102		3		81	120	20
Styrene	50	0	52.8	ug/L	106		2		53	143	20
Bromoform	50	0	54.5	ug/L	109		0		83	121	20
Isopropylbenzene	50	0	50.4	ug/L	101		0		76	121	20
1,1,2,2-Tetrachloroethane	50	0	51.1	ug/L	102		0		66	145	20
1,3-Dichlorobenzene	50	0	48.1	ug/L	96		2		84	110	20
1,4-Dichlorobenzene	50	0	46.4	ug/L	93		1		81	111	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	48.8	ug/L	98		0		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	51.9	ug/L	104		1		55	152	20
1,2,4-Trichlorobenzene	50	0	48.5	ug/L	97		3		73	120	20
1,2,3-Trichlorobenzene	50	0	49.3	ug/L	99		2		75	119	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L5236
Client: Day Environmental, Inc.
Analytical Method: SW8260-Low **Datafile :** VX020425.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1229WBS01	Dichlorodifluoromethane	20	16.9	ug/L	85			69	116	
	Chloromethane	20	16.7	ug/L	84			65	116	
	Vinyl chloride	20	16.5	ug/L	83			65	117	
	Bromomethane	20	16.8	ug/L	84			55	134	
	Chloroethane	20	17.2	ug/L	86			73	112	
	Trichlorofluoromethane	20	17.9	ug/L	90			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			80	112	
	1,1-Dichloroethene	20	17.6	ug/L	88			74	110	
	Acetone	100	92.0	ug/L	92			60	125	
	Carbon disulfide	20	14.8	ug/L	74			64	112	
	Methyl tert-butyl Ether	20	19.4	ug/L	97			78	114	
	Methyl Acetate	20	20.9	ug/L	104			67	125	
	Methylene Chloride	20	18.1	ug/L	91			72	114	
	trans-1,2-Dichloroethene	20	17.7	ug/L	89			75	108	
	1,1-Dichloroethane	20	19.3	ug/L	97			78	112	
	Cyclohexane	20	18.4	ug/L	92			75	110	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	20.1	ug/L	101			77	113	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			77	110	
	Bromochloromethane	20	17.2	ug/L	86			70	124	
	Chloroform	20	19.5	ug/L	98			79	113	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			80	108	
	Methylcyclohexane	20	18.7	ug/L	94			72	115	
	Benzene	20	19.5	ug/L	98			82	109	
	1,2-Dichloroethane	20	18.9	ug/L	95			80	115	
	Trichloroethene	20	19.0	ug/L	95			77	113	
	1,2-Dichloropropane	20	20.3	ug/L	102			83	111	
	Bromodichloromethane	20	20.3	ug/L	102			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	19.9	ug/L	100			82	110	
	t-1,3-Dichloropropene	20	20.1	ug/L	101			79	110	
	cis-1,3-Dichloropropene	20	20.1	ug/L	101			82	110	
	1,1,2-Trichloroethane	20	20.5	ug/L	103			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	20.5	ug/L	103			82	110	
	1,2-Dibromoethane	20	20.1	ug/L	101			81	110	
	Tetrachloroethene	20	21.0	ug/L	105			67	123	
	Chlorobenzene	20	20.3	ug/L	102			82	109	
	Ethyl Benzene	20	20.6	ug/L	103			83	109	
	m/p-Xylenes	40	41.8	ug/L	104			82	110	
	o-Xylene	20	20.9	ug/L	104			83	109	
	Styrene	20	21.3	ug/L	106			80	111	
	Bromoform	20	21.8	ug/L	109			79	109	
	Isopropylbenzene	20	21.0	ug/L	105			83	112	
	1,1,2,2-Tetrachloroethane	20	20.5	ug/L	103			76	118	
	1,3-Dichlorobenzene	20	20.4	ug/L	102			82	108	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			82	107	
	1,2-Dichlorobenzene	20	20.0	ug/L	100			82	109	
	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L5236

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VX020425.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1229WBS01	1,2,4-Trichlorobenzene	20	19.8	ug/L	99			74	114	
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103			77	113	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1229WBL01

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020424.D Lab Sample ID: VX1229WBL01

Date Analyzed: 12/29/2020 Time Analyzed: 10:55

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1229WBS01	VX1229WBS01	VX020425.D	12/29/2020
1026-TB122820	L5236-14	VX020427.D	12/29/2020
1015-MW-01(23)DL	L5236-01DL	VX020429.D	12/29/2020
1017-MW-03A(17)	L5236-05	VX020430.D	12/29/2020
1017-MW-03A(17)DL	L5236-05DL	VX020431.D	12/29/2020
1019-MW-11(15)	L5236-07	VX020432.D	12/29/2020
1015-MW-01(23)	L5236-01	VX020434.D	12/29/2020
1018-MW-05(17)	L5236-06	VX020435.D	12/29/2020
1020-MW-15(17)	L5236-08	VX020436.D	12/29/2020
1021-MW-16(22.5)	L5236-09	VX020437.D	12/29/2020
1022-MW-17A(15.5)	L5236-10	VX020438.D	12/29/2020
1023-MW-18(121.5)	L5236-11	VX020439.D	12/29/2020
1024-MW-19(28)	L5236-12	VX020440.D	12/29/2020
1025-FB122820	L5236-13	VX020441.D	12/29/2020
1016-MW-02(23.8)	L5236-02	VX020442.D	12/29/2020
1016-MW-02(23.8)MS	L5236-03MS	VX020443.D	12/29/2020
1016-MW-02(23.8)MSD	L5236-04MSD	VX020444.D	12/29/2020

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020114.D BFB Injection Date: 12/18/2020

Instrument ID: MSVOA_X BFB Injection Time: 08:40

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	49.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	72.9
175	5.0 - 9.0% of mass 174	5.4 (7.4) 1
176	95.0 - 101.0% of mass 174	70.4 (96.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX020116.D	12/18/2020	10:28
VSTDICC005	VSTDICC005	VX020117.D	12/18/2020	10:59
VSTDICC020	VSTDICC020	VX020118.D	12/18/2020	11:22
VSTDICCC050	VSTDICCC050	VX020119.D	12/18/2020	11:57
VSTDICC100	VSTDICC100	VX020120.D	12/18/2020	12:20
VSTDICC150	VSTDICC150	VX020121.D	12/18/2020	12:43

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020422.D BFB Injection Date: 12/29/2020

Instrument ID: MSVOA_X BFB Injection Time: 08:47

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16
75	30.0 - 60.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	72.4
175	5.0 - 9.0% of mass 174	5.2 (7.2) 1
176	95.0 - 101.0% of mass 174	70.4 (97.3) 1
177	5.0 - 9.0% of mass 176	4.7 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX020423.D	12/29/2020	09:57
VX1229WBL01	VX1229WBL01	VX020424.D	12/29/2020	10:55
VX1229WBS01	VX1229WBS01	VX020425.D	12/29/2020	11:28
1026-TB122820	L5236-14	VX020427.D	12/29/2020	12:25
1015-MW-01(23)DL	L5236-01DL	VX020429.D	12/29/2020	13:12
1017-MW-03A(17)	L5236-05	VX020430.D	12/29/2020	13:35
1017-MW-03A(17)DL	L5236-05DL	VX020431.D	12/29/2020	13:59
1019-MW-11(15)	L5236-07	VX020432.D	12/29/2020	14:22
1015-MW-01(23)	L5236-01	VX020434.D	12/29/2020	15:09
1018-MW-05(17)	L5236-06	VX020435.D	12/29/2020	15:32
1020-MW-15(17)	L5236-08	VX020436.D	12/29/2020	15:56
1021-MW-16(22.5)	L5236-09	VX020437.D	12/29/2020	16:19
1022-MW-17A(15.5)	L5236-10	VX020438.D	12/29/2020	16:43
1023-MW-18(121.5)	L5236-11	VX020439.D	12/29/2020	17:06
1024-MW-19(28)	L5236-12	VX020440.D	12/29/2020	17:30
1025-FB122820	L5236-13	VX020441.D	12/29/2020	17:53
1016-MW-02(23.8)	L5236-02	VX020442.D	12/29/2020	18:17
1016-MW-02(23.8)MS	L5236-03MS	VX020443.D	12/29/2020	18:40
1016-MW-02(23.8)MSD	L5236-04MSD	VX020444.D	12/29/2020	19:04

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020119.D Date Analyzed: 12/18/2020

Instrument ID: MSVOA_X Time Analyzed: 11:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	218636	5.62	378640	6.82	366144	10.09
UPPER LIMIT	437272	6.117	757280	7.324	732288	10.592
LOWER LIMIT	109318	5.117	189320	6.324	183072	9.592
EPA SAMPLE NO.						
1016-MW-02(23.8)	244654	5.63	403891	6.83	377336	10.09
1016-MW-02(23.8)MS	215198	5.63	355700	6.83	336209	10.10
1016-MW-02(23.8)MSD	218151	5.63	346095	6.83	333083	10.10
1017-MW-03A(17)	243439	5.63	398227	6.83	364995	10.10
VX1229WBL01	256653	5.63	418267	6.83	384736	10.10
VX1229WBS01	236312	5.62	378916	6.82	350328	10.09
1022-MW-17A(15.5)	242846	5.63	389351	6.83	346068	10.09
1023-MW-18(121.5)	239358	5.63	390358	6.83	357313	10.10
1024-MW-19(28)	242331	5.63	396094	6.83	371823	10.10
1025-FB122820	233163	5.63	383142	6.83	357147	10.10
1026-TB122820	280561	5.63	452236	6.83	410268	10.10
1020-MW-15(17)	233241	5.63	378821	6.83	347626	10.10
1021-MW-16(22.5)	232805	5.63	384357	6.83	348678	10.10
1015-MW-01(23)	242542	5.63	400607	6.83	375131	10.10
1015-MW-01(23)DL	251458	5.62	409366	6.83	385711	10.10
1017-MW-03A(17)DL	235838	5.62	377441	6.83	356816	10.10
1018-MW-05(17)	241113	5.63	391085	6.83	359497	10.10
1019-MW-11(15)	245539	5.63	397659	6.83	360547	10.10

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020119.D Date Analyzed: 12/18/2020

Instrument ID: MSVOA_X Time Analyzed: 11:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	218636	5.62	378640	6.82	366144	10.09
UPPER LIMIT	437272	6.117	757280	7.324	732288	10.592
LOWER LIMIT	109318	5.117	189320	6.324	183072	9.592
EPA SAMPLE NO.						

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020423.D Date Analyzed: 12/29/2020

Instrument ID: MSVOA_X Time Analyzed: 09:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	254429	5.62	389578	6.82	365726	10.09
UPPER LIMIT	508858	6.117	779156	7.324	731452	10.592
LOWER LIMIT	127215	5.117	194789	6.324	182863	9.592
EPA SAMPLE NO.						
1015-MW-01(23)	242542	5.63	400607	6.83	375131	10.10
1015-MW-01(23)DL	251458	5.62	409366	6.83	385711	10.10
1016-MW-02(23.8)	244654	5.63	403891	6.83	377336	10.09
1016-MW-02(23.8)MS	215198	5.63	355700	6.83	336209	10.10
1016-MW-02(23.8)MSD	218151	5.63	346095	6.83	333083	10.10
1017-MW-03A(17)	243439	5.63	398227	6.83	364995	10.10
1017-MW-03A(17)DL	235838	5.62	377441	6.83	356816	10.10
1018-MW-05(17)	241113	5.63	391085	6.83	359497	10.10
1019-MW-11(15)	245539	5.63	397659	6.83	360547	10.10
1020-MW-15(17)	233241	5.63	378821	6.83	347626	10.10
1021-MW-16(22.5)	232805	5.63	384357	6.83	348678	10.10
1022-MW-17A(15.5)	242846	5.63	389351	6.83	346068	10.09
1023-MW-18(121.5)	239358	5.63	390358	6.83	357313	10.10
1024-MW-19(28)	242331	5.63	396094	6.83	371823	10.10
1025-FB122820	233163	5.63	383142	6.83	357147	10.10
1026-TB122820	280561	5.63	452236	6.83	410268	10.10
VX1229WBL01	256653	5.63	418267	6.83	384736	10.10
VX1229WBS01	236312	5.62	378916	6.82	350328	10.09

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020423.D Date Analyzed: 12/29/2020

Instrument ID: MSVOA_X Time Analyzed: 09:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	254429	5.62	389578	6.82	365726	10.09
UPPER LIMIT	508858	6.117	779156	7.324	731452	10.592
LOWER LIMIT	127215	5.117	194789	6.324	182863	9.592
EPA SAMPLE NO.						

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020423.D Date Analyzed: 12/29/2020

Instrument ID: MSVOA_X Time Analyzed: 09:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	182415	12.061				
UPPER LIMIT	364830	12.561				
LOWER LIMIT	91207.5	11.561				
EPA SAMPLE NO.						
1015-MW-01(23)	160772	12.06				
1015-MW-01(23)DL	170837	12.06				
1016-MW-02(23.8)	161098	12.06				
1016-MW-02(23.8)MS	167282	12.06				
1016-MW-02(23.8)MSD	169214	12.06				
1017-MW-03A(17)	152677	12.06				
1017-MW-03A(17)DL	168614	12.06				
1018-MW-05(17)	151292	12.06				
1019-MW-11(15)	149606	12.06				
1020-MW-15(17)	142555	12.06				
1021-MW-16(22.5)	149581	12.06				
1022-MW-17A(15.5)	144087	12.06				
1023-MW-18(121.5)	147630	12.06				
1024-MW-19(28)	158824	12.06				
1025-FB122820	152242	12.06				
1026-TB122820	186844	12.06				
VX1229WBL01	172394	12.06				
VX1229WBS01	175878	12.06				

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG NO.: L5236

Lab File ID: VX020423.D Date Analyzed: 12/29/2020

Instrument ID: MSVOA_X Time Analyzed: 09:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	182415	12.061				
UPPER LIMIT	364830	12.561				
LOWER LIMIT	91207.5	11.561				
EPA SAMPLE NO.						

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1015-MW-01(23)	SDG No.:	L5236
Lab Sample ID:	L5236-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020434.D	10		12/29/20 15:09	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	10.0	U	2.20	10.0	ug/L
74-87-3	Chloromethane	10.0	U	3.00	10.0	ug/L
75-01-4	Vinyl Chloride	4.60	J	1.60	10.0	ug/L
74-83-9	Bromomethane	50.0	U	20.5	50.0	ug/L
75-00-3	Chloroethane	10.0	U	3.40	10.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	1.60	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	U	2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	10.0	U	1.80	10.0	ug/L
67-64-1	Acetone	50.0	U	9.00	50.0	ug/L
75-15-0	Carbon Disulfide	10.0	U	2.30	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	0.70	10.0	ug/L
79-20-9	Methyl Acetate	10.0	U	6.50	10.0	ug/L
75-09-2	Methylene Chloride	10.0	U	3.30	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	2.40	10.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	1.70	10.0	ug/L
110-82-7	Cyclohexane	50.0	U	12.0	50.0	ug/L
78-93-3	2-Butanone	50.0	U	7.10	50.0	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	2.20	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	110		3.00	10.0	ug/L
74-97-5	Bromochloromethane	10.0	U	3.10	10.0	ug/L
67-66-3	Chloroform	10.0	U	1.40	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	1.20	10.0	ug/L
108-87-2	Methylcyclohexane	10.0	U	1.70	10.0	ug/L
71-43-2	Benzene	10.0	U	0.99	10.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	1.30	10.0	ug/L
79-01-6	Trichloroethene	98.0		2.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	1.40	10.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	1.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	8.50	50.0	ug/L
108-88-3	Toluene	10.0	U	1.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	10.0	U	1.90	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	1.60	10.0	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1015-MW-01(23)	SDG No.:	L5236
Lab Sample ID:	L5236-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020434.D	10		12/29/20 15:09	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	10.0	U	1.20	10.0	ug/L
591-78-6	2-Hexanone	50.0	U	13.6	50.0	ug/L
124-48-1	Dibromochloromethane	10.0	U	1.60	10.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	1.40	10.0	ug/L
127-18-4	Tetrachloroethene	1800	E	1.50	10.0	ug/L
108-90-7	Chlorobenzene	10.0	U	0.76	10.0	ug/L
100-41-4	Ethyl Benzene	10.0	U	0.83	10.0	ug/L
179601-23-1	m/p-Xylenes	20.0	U	2.00	20.0	ug/L
95-47-6	o-Xylene	10.0	U	1.30	10.0	ug/L
100-42-5	Styrene	10.0	U	1.10	10.0	ug/L
75-25-2	Bromoform	10.0	U	1.50	10.0	ug/L
98-82-8	Isopropylbenzene	10.0	U	1.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	1.50	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	1.40	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	2.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	1.20	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	10.0	U	5.40	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	2.40	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	10.0	U	2.60	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		78 - 117	91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.3		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.0		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	5.629			
540-36-3	1,4-Difluorobenzene	401000	6.83			
3114-55-4	Chlorobenzene-d5	375000	10.097			
3855-82-1	1,4-Dichlorobenzene-d4	161000	12.06			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1015-MW-01(23)	SDG No.:	L5236
Lab Sample ID:	L5236-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020434.D	10		12/29/20 15:09	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020434.D
Acq On : 29 Dec 2020 15:09
Operator : JC/MD
Sample : L5236-01 10X
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

Quant Time: Dec 30 02:37:25 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

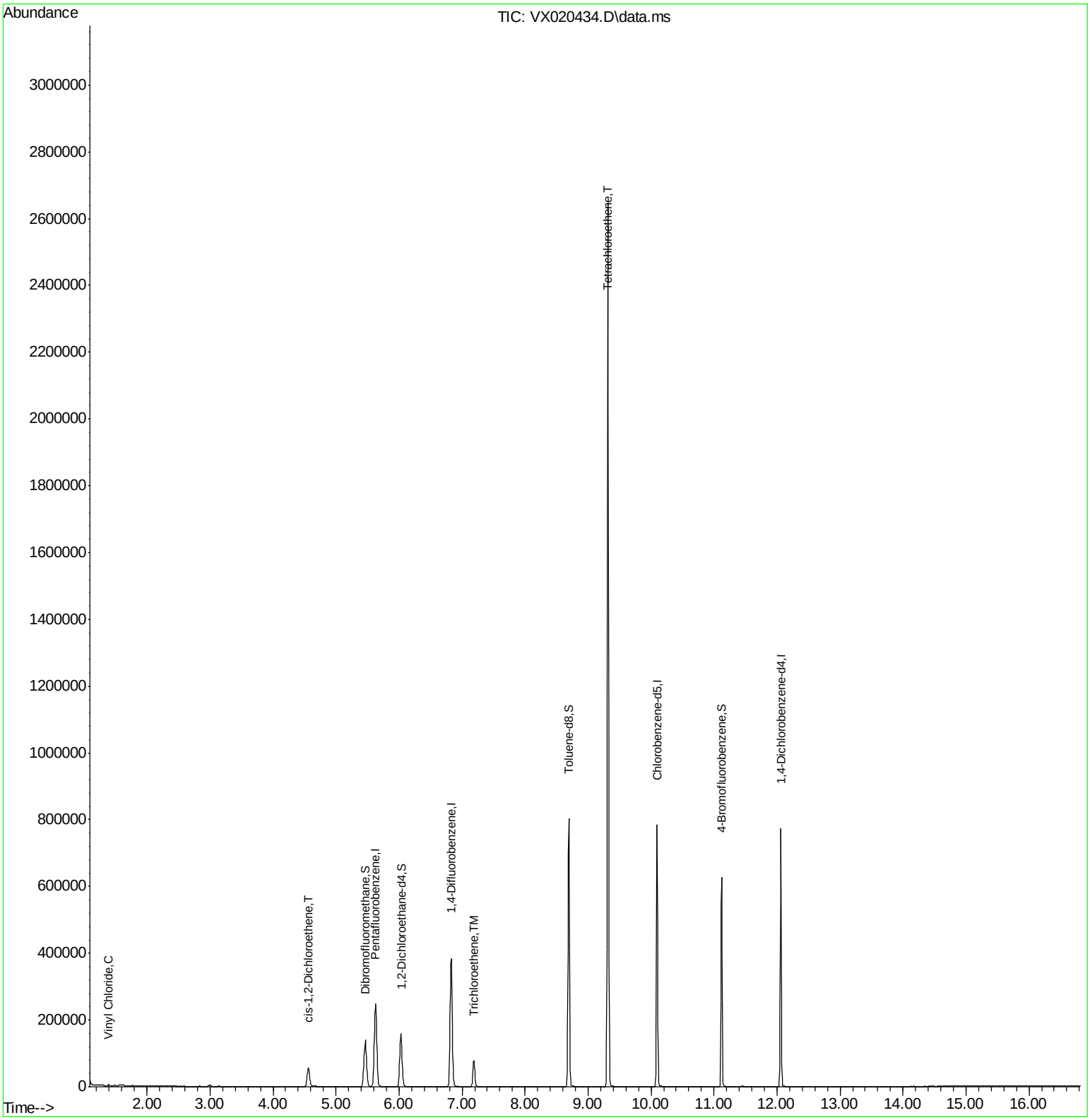
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	242542	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	400607	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.097	117	375131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.060	152	160772	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	147575	45.39	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 90.78%			
35) Dibromofluoromethane	5.464	113	124006	48.39	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.78%			
50) Toluene-d8	8.695	98	486321	49.30	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.60%			
62) 4-Bromofluorobenzene	11.122	95	173669	46.00	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 92.00%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.392	62	1541	0.46	ug/l	93
27) cis-1,2-Dichloroethene	4.562	96	37797	11.14	ug/l	91
44) Trichloroethene	7.189	130	31229	9.80	ug/l	97
64) Tetrachloroethene	9.317	164	507661	179.61	ug/l	96

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

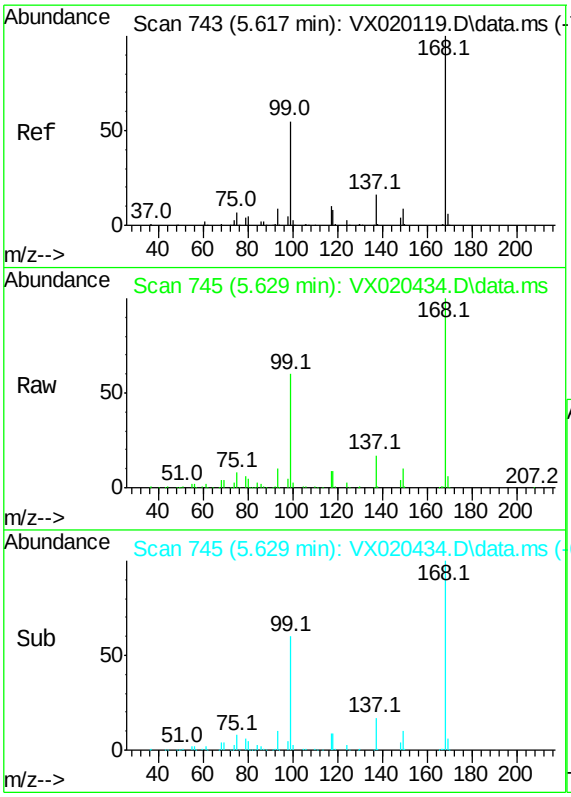
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020434.D
Acq On : 29 Dec 2020 15:09
Operator : JC/MD
Sample : L5236-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

Quant Time: Dec 30 02:37:25 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



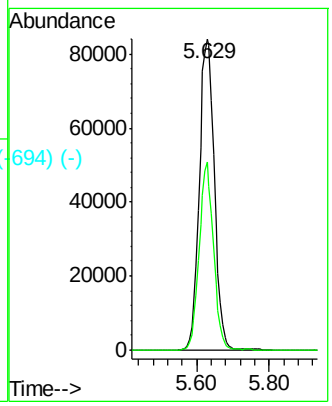
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

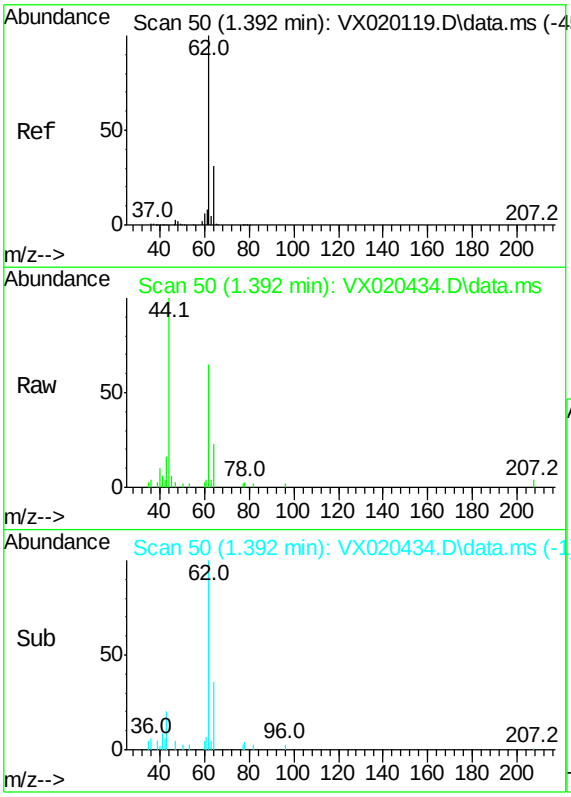


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion:168 Resp: 242542

Ion	Ratio	Lower	Upper
168	100		
99	60.3	45.8	68.6

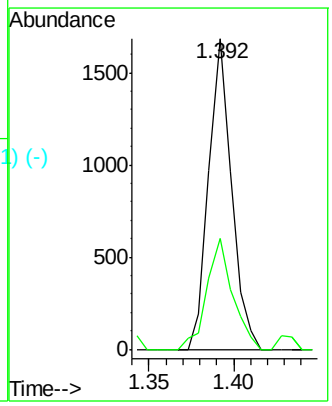




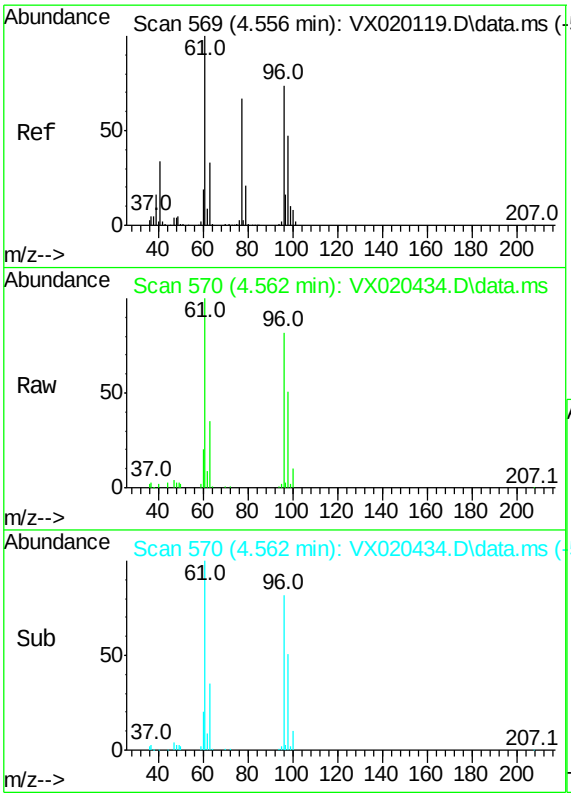
#4
Vinyl Chloride
Concen: 0.46 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion: 62 Resp: 1541

Ion	Ratio	Lower	Upper
62	100		
64	35.9	25.7	38.5



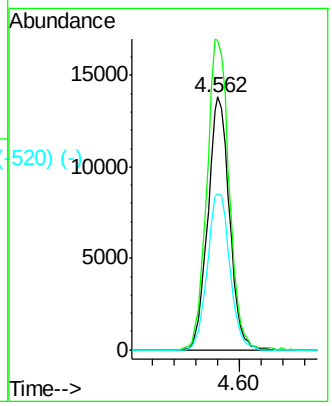
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

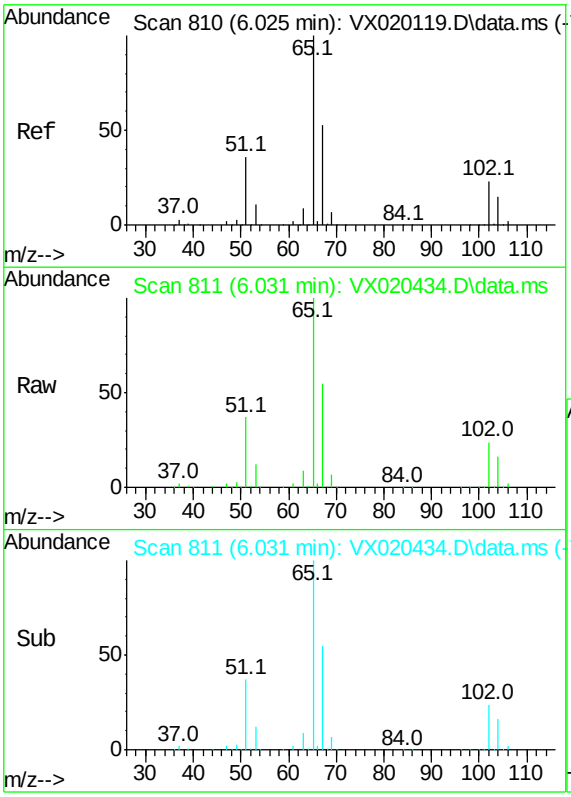


#27
cis-1,2-Dichloroethene
Concen: 11.14 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion: 96 Resp: 37797

Ion	Ratio	Lower	Upper
96	100		
61	127.5	0.0	285.6
98	64.4	0.0	129.6

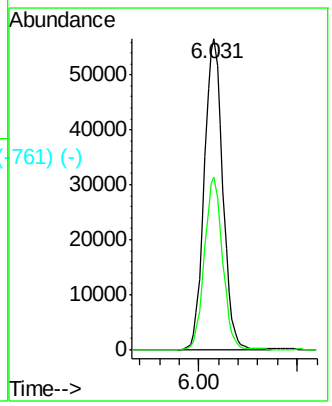




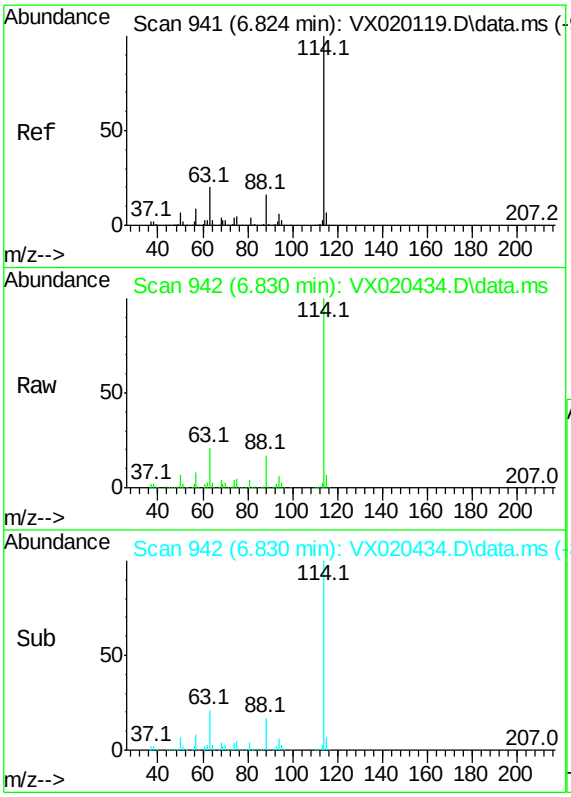
#33
1,2-Dichloroethane-d4
Concen: 45.39 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion: 65 Resp: 147575

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.4



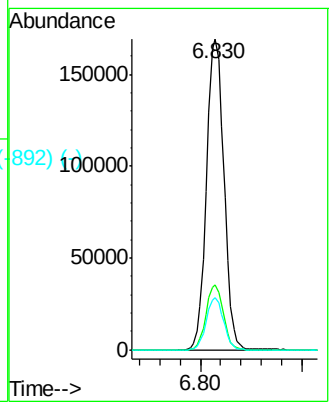
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

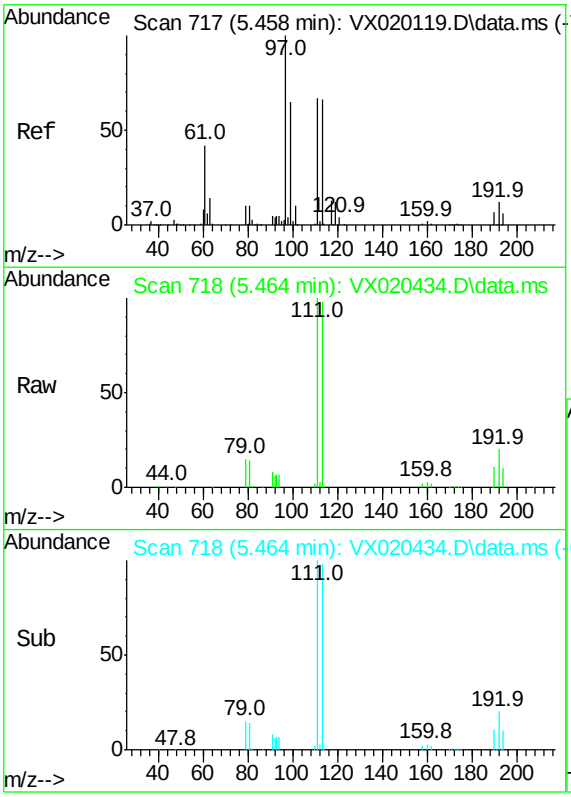


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion:114 Resp: 400607

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	40.8
88	16.7	0.0	32.8

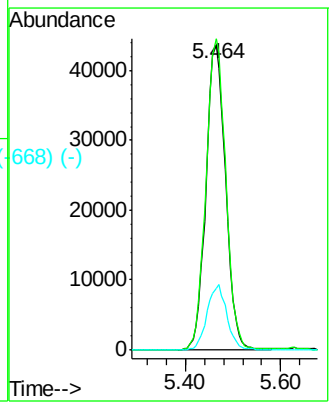




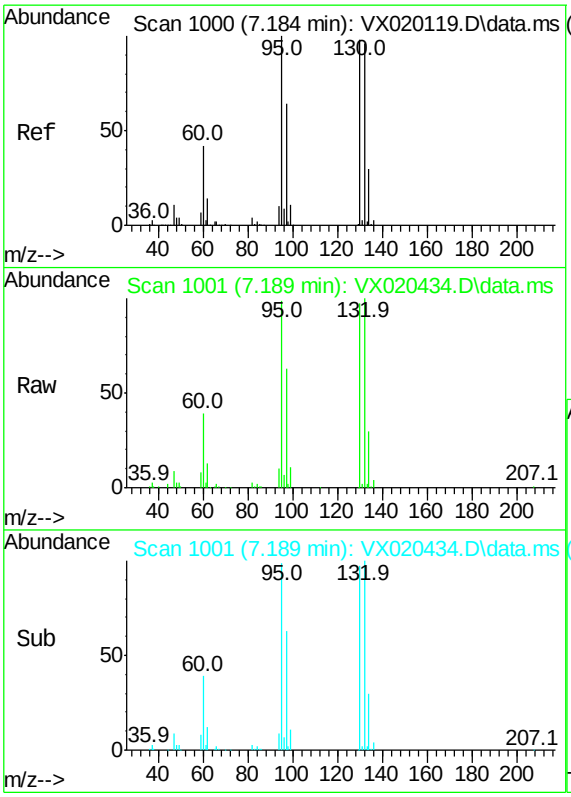
#35
Dibromofluoromethane
Concen: 48.39 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion:113 Resp: 124006

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	21.1	16.7	25.1



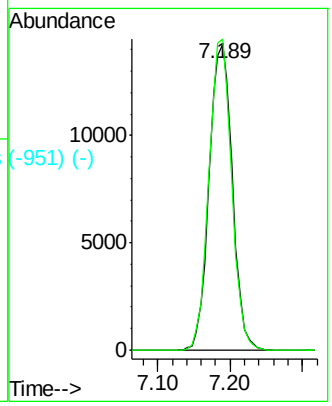
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

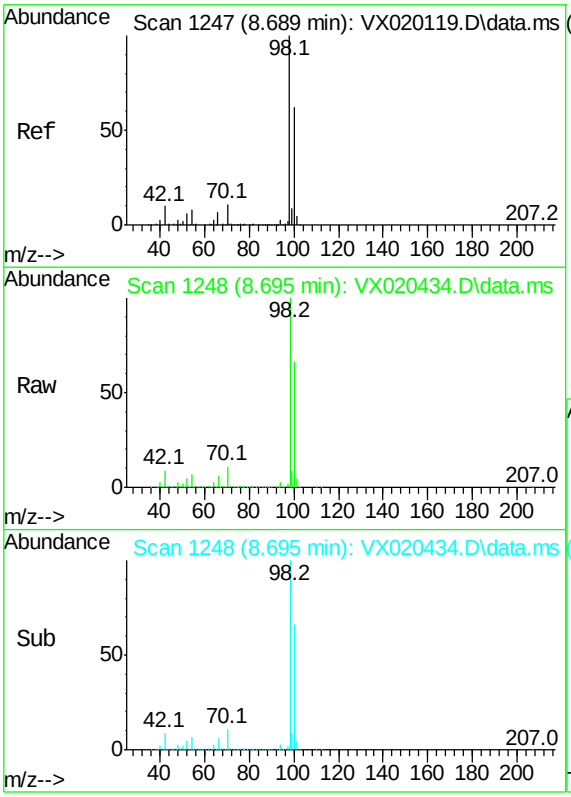


#44
Trichloroethene
Concen: 9.80 ug/l
RT: 7.189 min Scan# 1001
Delta R.T. 0.005 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion:130 Resp: 31229

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	198.0

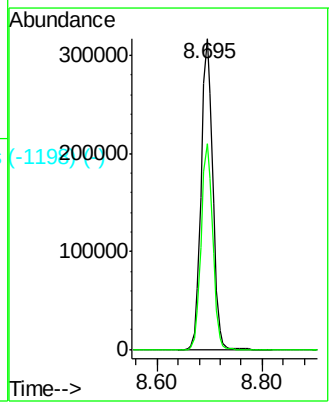




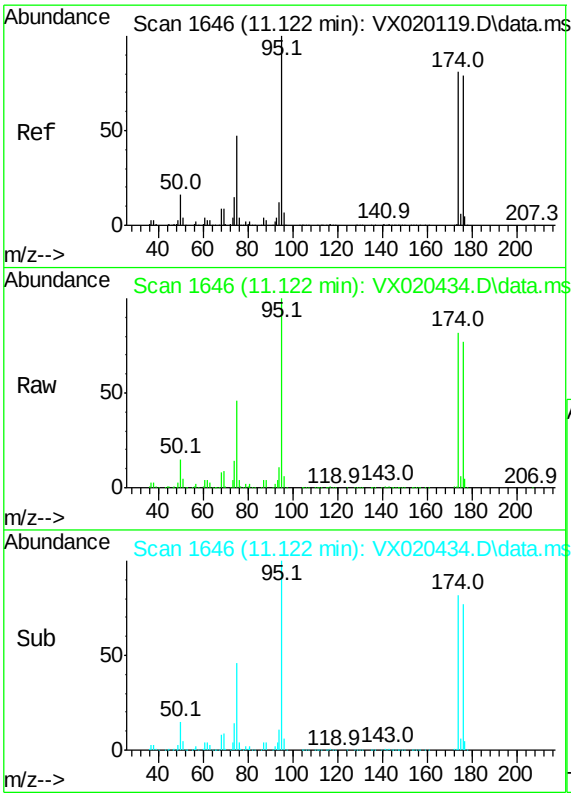
#50
Toluene-d8
Concen: 49.30 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion: 98 Resp: 486321

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.9	77.9



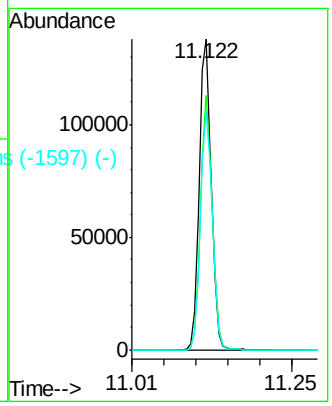
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

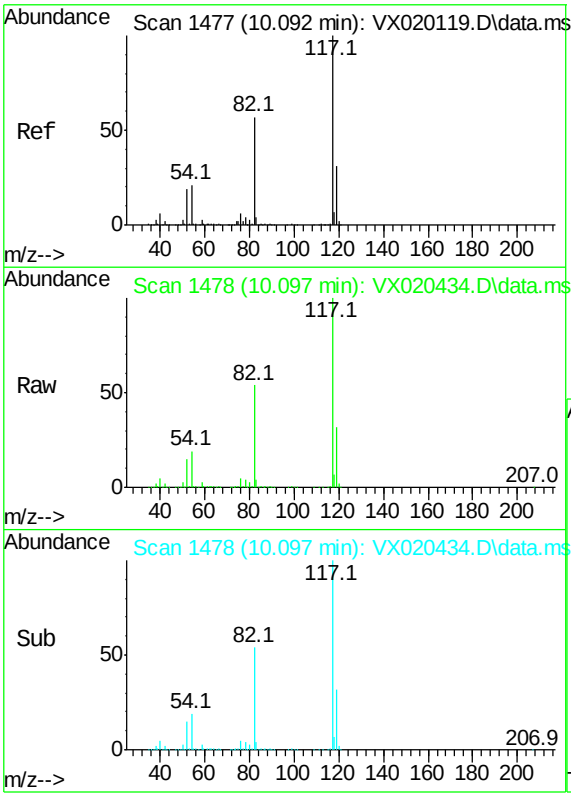


#62
4-Bromofluorobenzene
Concen: 46.00 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion: 95 Resp: 173669

Ion	Ratio	Lower	Upper
95	100		
174	79.7	0.0	154.6
176	76.2	0.0	155.8

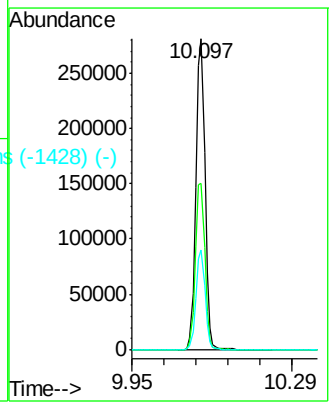




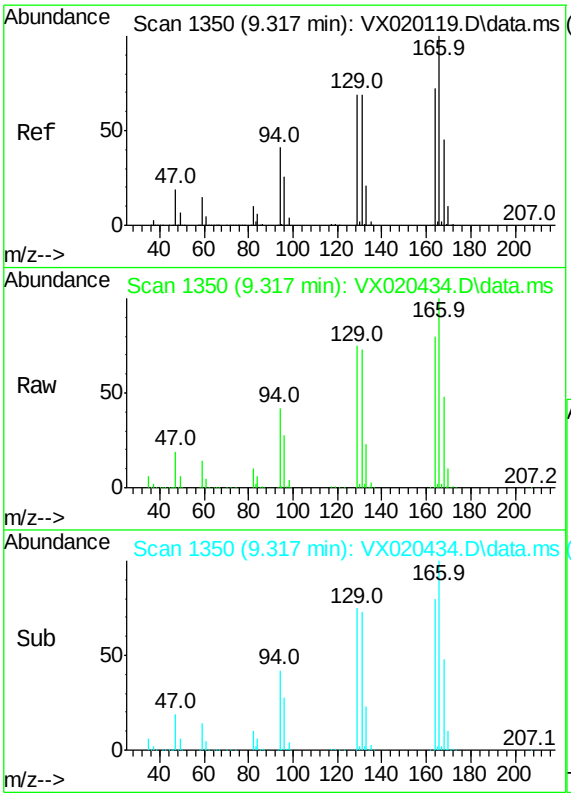
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.097 min Scan# 1478
Delta R.T. 0.005 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion:117 Resp: 375131

Ion	Ratio	Lower	Upper
117	100		
82	53.6	47.4	71.2
119	31.9	26.6	39.8



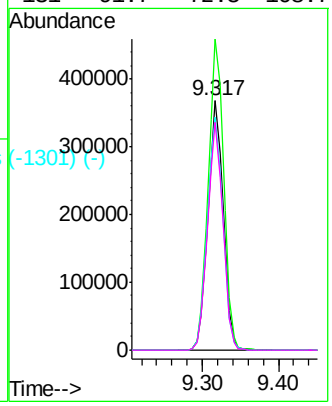
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

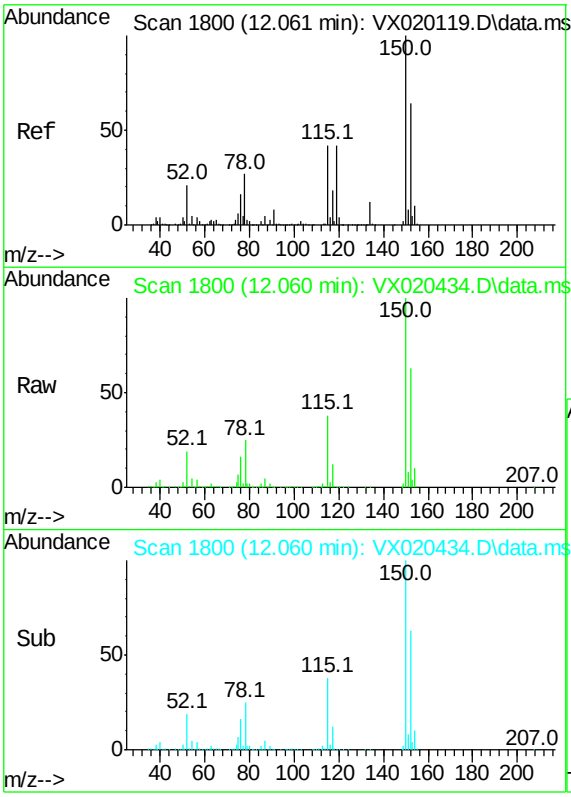


#64
Tetrachloroethene
Concen: 179.61 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion:164 Resp: 507661

Ion	Ratio	Lower	Upper
164	100		
166	124.9	103.4	155.2
129	93.6	70.8	106.2
131	91.7	72.5	108.7

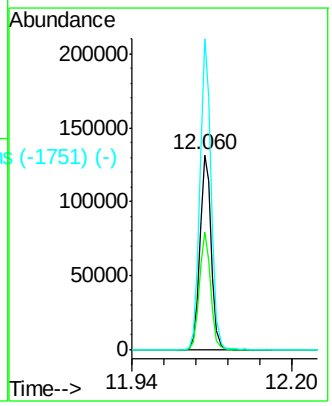




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.060 min Scan# 1800
Delta R.T. -0.001 min
Lab File: VX020434.D
Acq: 29 Dec 2020 15:09

Tgt Ion:152 Resp: 160772

Ion	Ratio	Lower	Upper
152	100		
115	59.7	41.1	123.3
150	157.7	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020434.D
Acq On : 29 Dec 2020 15:09
Operator : JC/MD
Sample : L5236-01 10X
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020434.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.562	559	570	581	rBV	56792	157317	4.27%	1.500%
2	5.464	707	718	733	rBV2	140699	401474	10.89%	3.829%
3	5.629	733	745	761	rVV	247676	697162	18.91%	6.650%
4	6.031	800	811	828	rBV	158700	411438	11.16%	3.924%
5	6.830	931	942	956	rBV	385134	908447	24.64%	8.665%
6	7.189	992	1001	1012	rBV	77416	167758	4.55%	1.600%
7	8.695	1239	1248	1263	rBV	802973	1250164	33.91%	11.924%
8	9.317	1343	1350	1372	rBV	2647690	3687209	100.00%	35.168%
9	10.097	1472	1478	1493	rVB	783703	1074020	29.13%	10.244%
10	11.122	1640	1646	1656	rBV	627017	787447	21.36%	7.511%
11	12.060	1795	1800	1809	rBV	772029	941990	25.55%	8.985%

Sum of corrected areas: 10484426

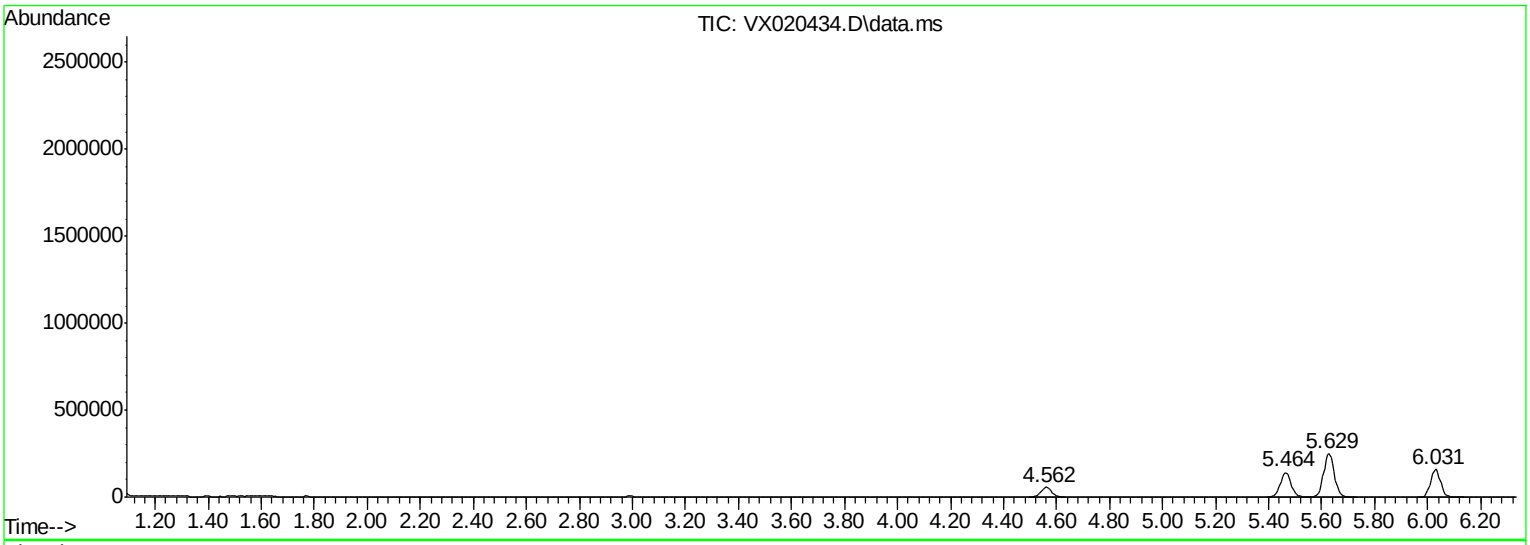
Sample Results: **VX020434.D**

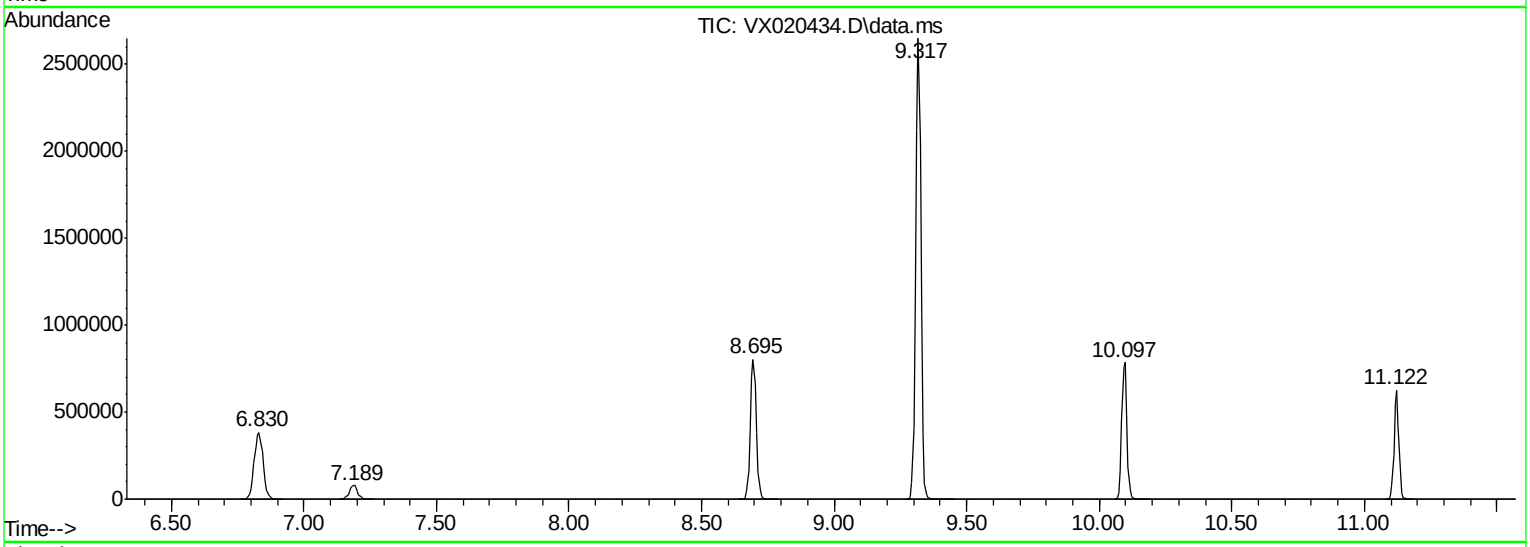
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020434.D
Acq On : 29 Dec 2020 15:09
Operator : JC/MD
Sample : L5236-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

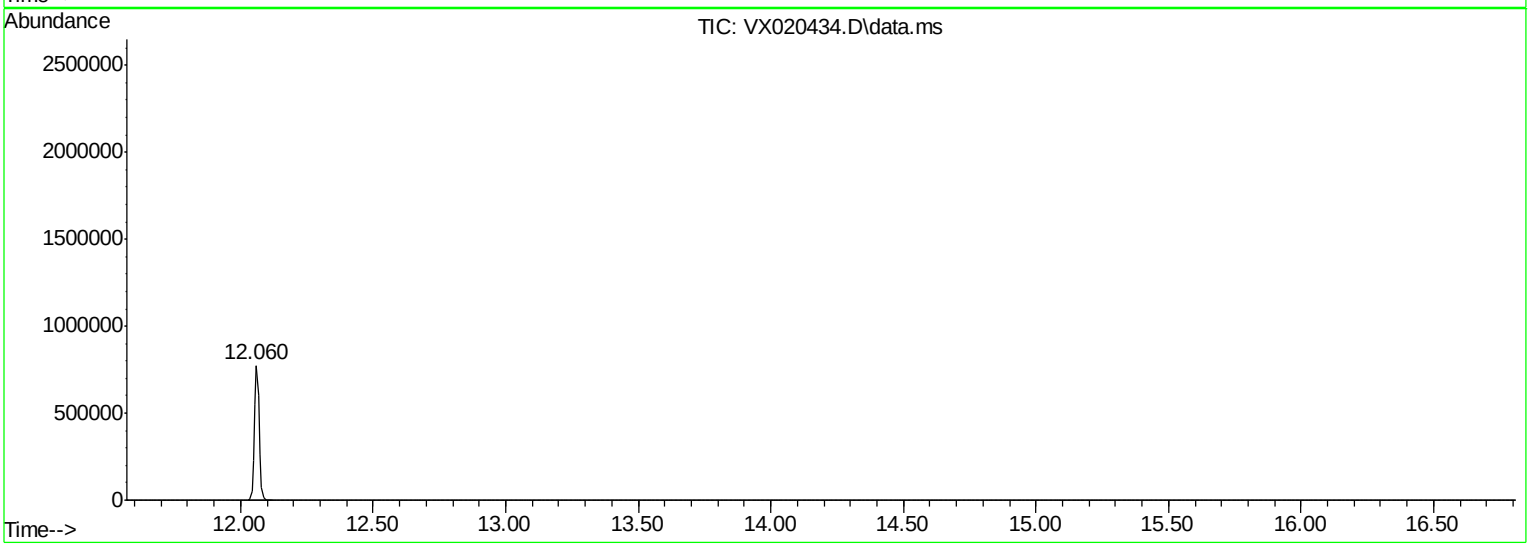
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020434.D
Acq On : 29 Dec 2020 15:09
Operator : JC/MD
Sample : L5236-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020434.D
Acq On : 29 Dec 2020 15:09
Operator : JC/MD
Sample : L5236-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1015-MW-01(23)DL	SDG No.:	L5236
Lab Sample ID:	L5236-01DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020429.D	20		12/29/20 13:12	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.0	UD	4.40	20.0	ug/L
74-87-3	Chloromethane	20.0	UD	6.00	20.0	ug/L
75-01-4	Vinyl Chloride	5.40	JD	3.20	20.0	ug/L
74-83-9	Bromomethane	100	UD	41.1	100	ug/L
75-00-3	Chloroethane	20.0	UD	6.70	20.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	UD	3.10	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0	UD	4.10	20.0	ug/L
75-35-4	1,1-Dichloroethene	20.0	UD	3.70	20.0	ug/L
67-64-1	Acetone	100	UD	17.9	100	ug/L
75-15-0	Carbon Disulfide	20.0	UD	4.70	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	UD	1.40	20.0	ug/L
79-20-9	Methyl Acetate	20.0	UD	13.0	20.0	ug/L
75-09-2	Methylene Chloride	20.0	UD	6.50	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	UD	4.70	20.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	UD	3.30	20.0	ug/L
110-82-7	Cyclohexane	100	UD	24.0	100	ug/L
78-93-3	2-Butanone	100	UD	14.1	100	ug/L
56-23-5	Carbon Tetrachloride	20.0	UD	4.40	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	120	D	5.90	20.0	ug/L
74-97-5	Bromochloromethane	20.0	UD	6.30	20.0	ug/L
67-66-3	Chloroform	20.0	UD	2.80	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	UD	2.50	20.0	ug/L
108-87-2	Methylcyclohexane	20.0	UD	3.40	20.0	ug/L
71-43-2	Benzene	20.0	UD	2.00	20.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	UD	2.60	20.0	ug/L
79-01-6	Trichloroethene	110	D	5.40	20.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	UD	2.70	20.0	ug/L
75-27-4	Bromodichloromethane	20.0	UD	2.10	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	UD	17.0	100	ug/L
108-88-3	Toluene	20.0	UD	2.30	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	20.0	UD	3.80	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	UD	3.10	20.0	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1015-MW-01(23)DL	SDG No.:	L5236
Lab Sample ID:	L5236-01DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020429.D	20		12/29/20 13:12	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.0	UD	2.50	20.0	ug/L
591-78-6	2-Hexanone	100	UD	27.1	100	ug/L
124-48-1	Dibromochloromethane	20.0	UD	3.10	20.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	UD	2.80	20.0	ug/L
127-18-4	Tetrachloroethene	2000	D	3.10	20.0	ug/L
108-90-7	Chlorobenzene	20.0	UD	1.50	20.0	ug/L
100-41-4	Ethyl Benzene	20.0	UD	1.70	20.0	ug/L
179601-23-1	m/p-Xylenes	40.0	UD	3.90	40.0	ug/L
95-47-6	o-Xylene	20.0	UD	2.60	20.0	ug/L
100-42-5	Styrene	20.0	UD	2.10	20.0	ug/L
75-25-2	Bromoform	20.0	UD	3.00	20.0	ug/L
98-82-8	Isopropylbenzene	20.0	UD	2.60	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	UD	3.00	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	UD	2.80	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	20.0	UD	4.00	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	UD	2.40	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.0	UD	10.9	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	UD	4.70	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0	UD	5.20	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.6		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.2		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		83 - 123	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	5.623			
540-36-3	1,4-Difluorobenzene	409000	6.83			
3114-55-4	Chlorobenzene-d5	386000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	171000	12.061			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1015-MW-01(23)DL	SDG No.:	L5236
Lab Sample ID:	L5236-01DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020429.D	20		12/29/20 13:12	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020429.D
Acq On : 29 Dec 2020 13:12
Operator : JC/MD
Sample : L5236-01DL 20X
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

Quant Time: Dec 30 02:36:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

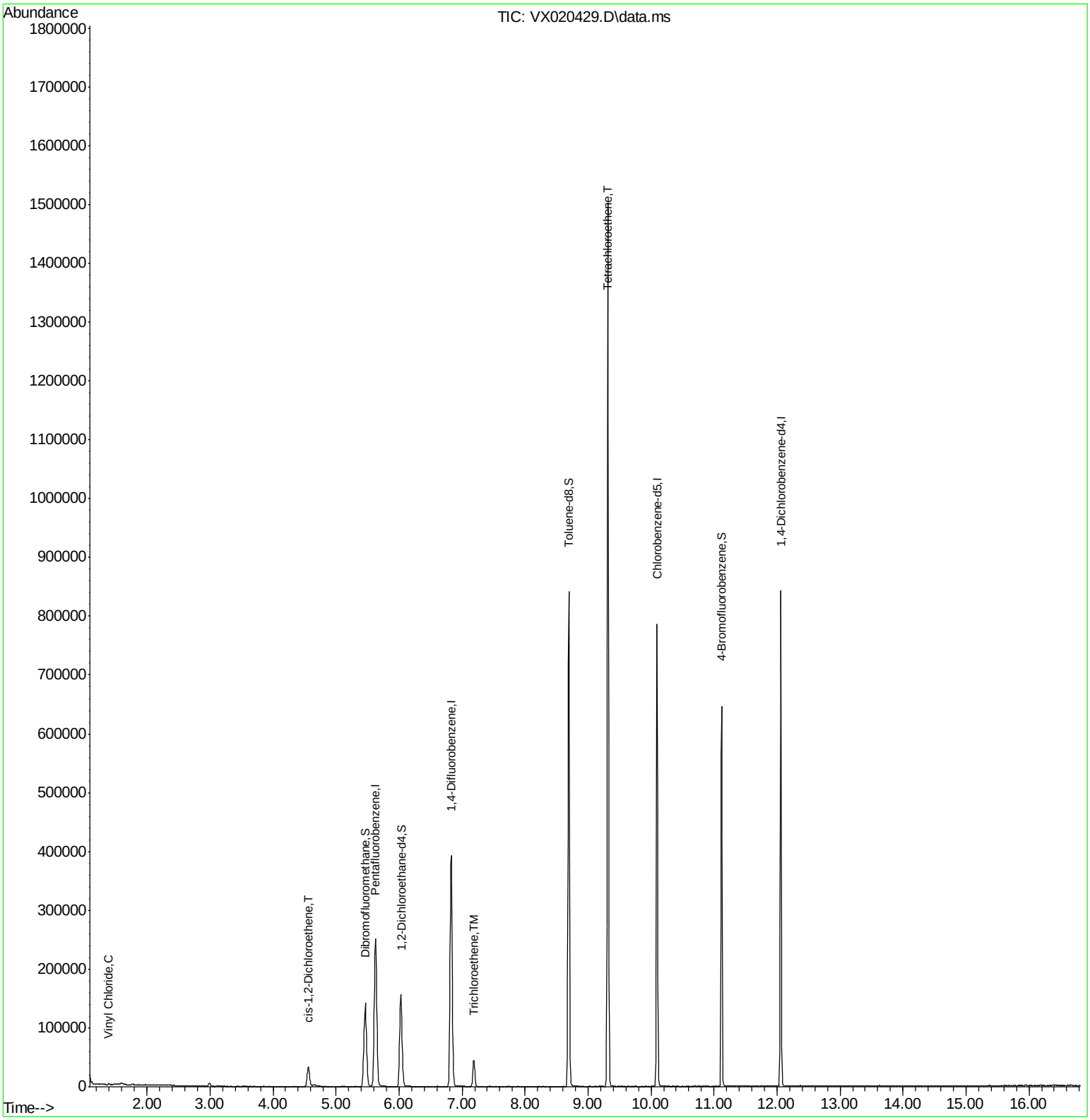
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	251458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.830	114	409366	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	385711	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	170837	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	150156	44.55	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 89.10%			
35) Dibromofluoromethane	5.464	113	127083	48.53	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.06%			
50) Toluene-d8	8.696	98	496353	49.24	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.48%			
62) 4-Bromofluorobenzene	11.122	95	179491	46.52	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 93.04%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.392	62	932	0.27	ug/l	91
27) cis-1,2-Dichloroethene	4.562	96	21443	6.10	ug/l	91
44) Trichloroethene	7.190	130	17554	5.39	ug/l	97
64) Tetrachloroethene	9.317	164	289714	99.69	ug/l	98

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

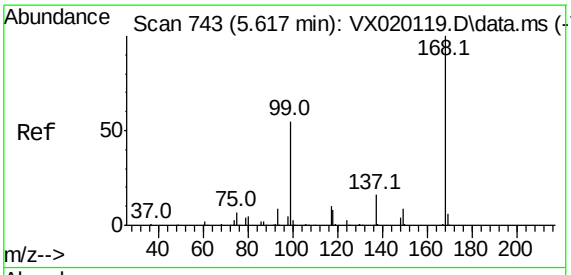
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020429.D
Acq On : 29 Dec 2020 13:12
Operator : JC/MD
Sample : L5236-01DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

Quant Time: Dec 30 02:36:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



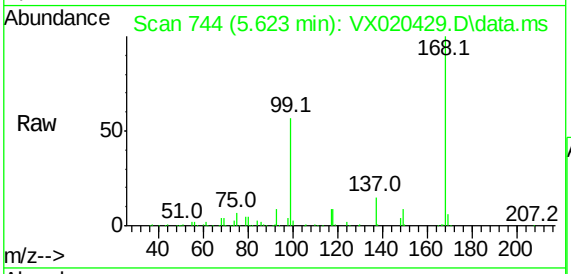
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

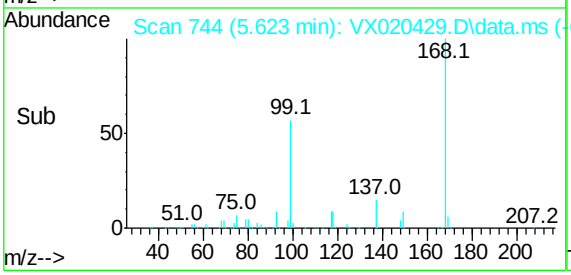


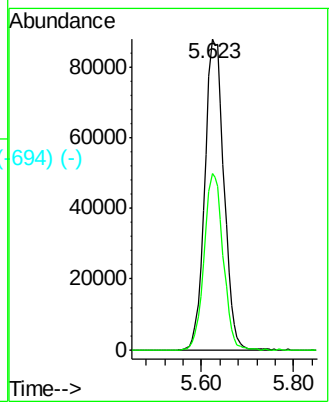
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 744
Delta R.T. 0.006 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

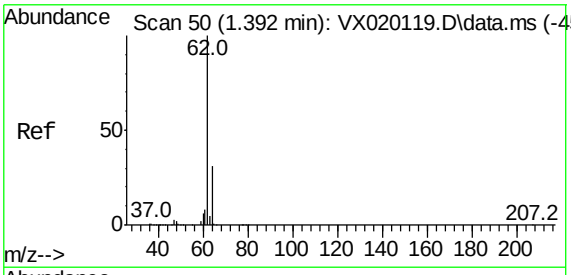
Tgt Ion:168 Resp: 251458

Ion	Ratio	Lower	Upper
168	100		
99	56.8	45.8	68.6





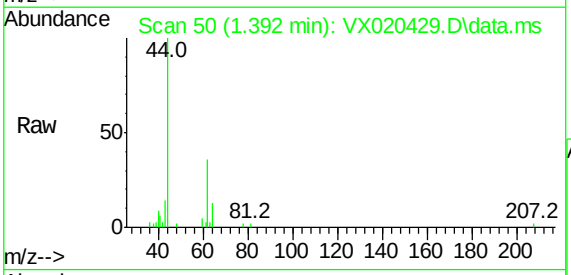


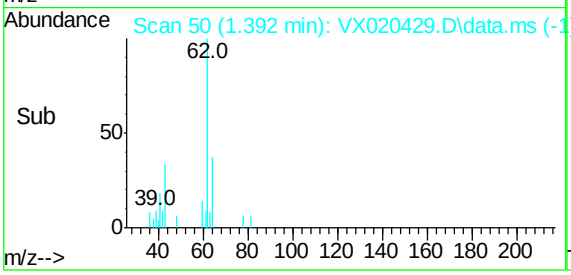


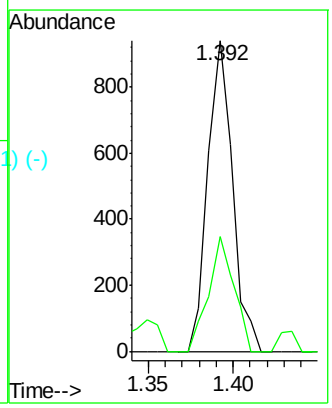
#4
Vinyl Chloride
Concen: 0.27 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion: 62 Resp: 932

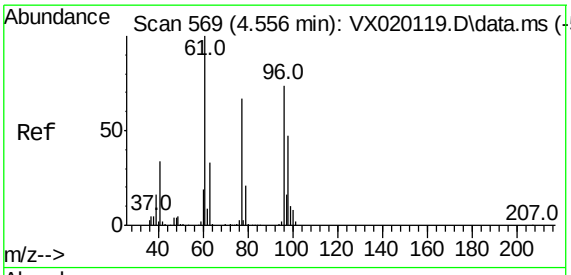
Ion	Ratio	Lower	Upper
62	100		
64	37.0	25.7	38.5







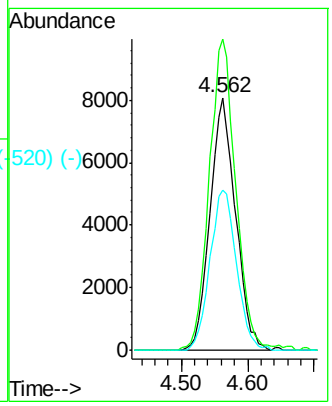
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

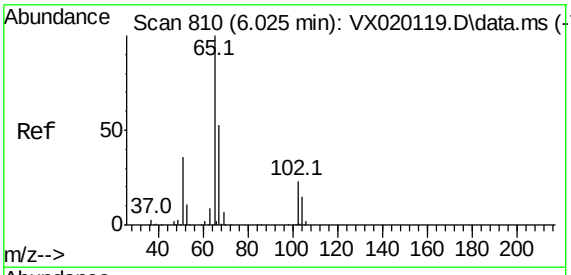


#27 (-)
cis-1,2-Dichloroethene
Concen: 6.10 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion: 96 Resp: 21443

Ion	Ratio	Lower	Upper
96	100		
61	127.7	0.0	285.6
98	65.9	0.0	129.6

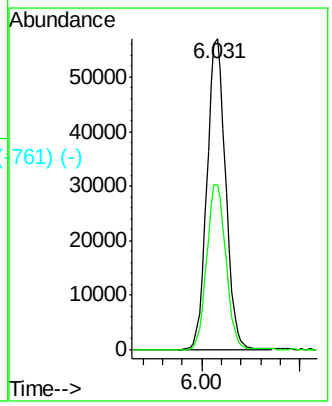




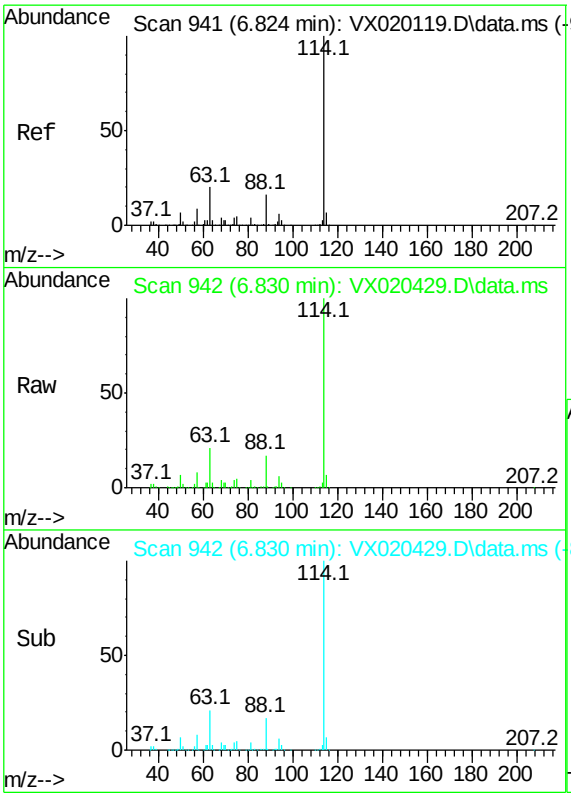
#33 (-)
1,2-Dichloroethane-d4
Concen: 44.55 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion: 65 Resp: 150156

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.4



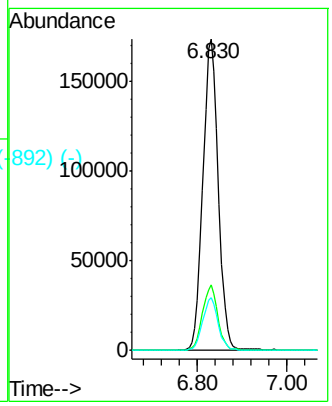
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

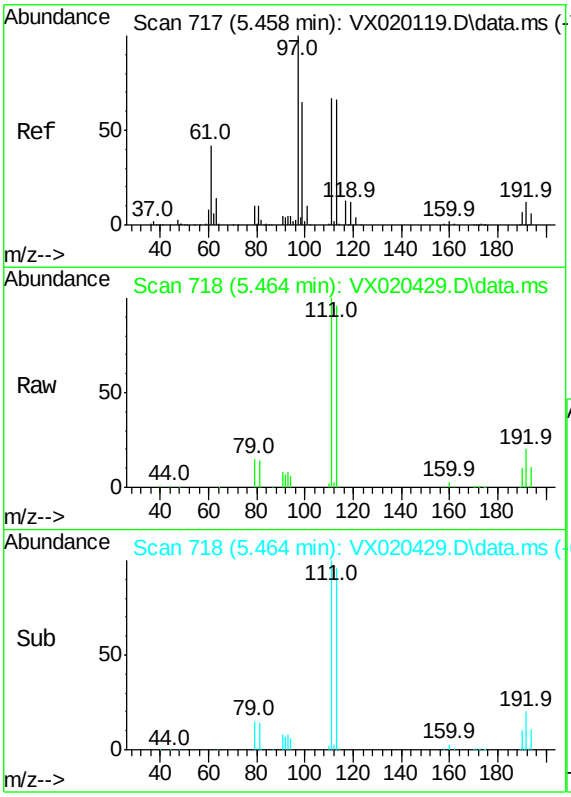


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion:114 Resp: 409366

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	16.9	0.0	32.8

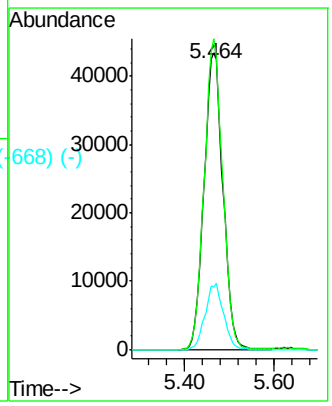




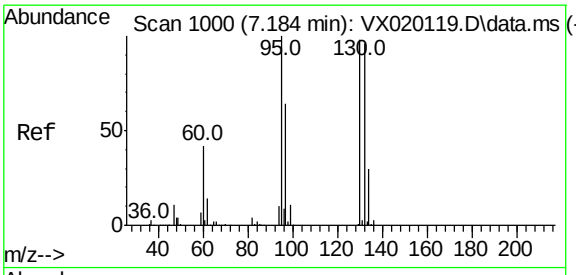
#35
Dibromofluoromethane
Concen: 48.53 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion:113 Resp: 127083

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	21.4	16.7	25.1



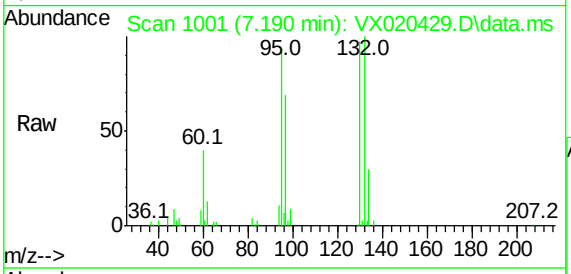
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

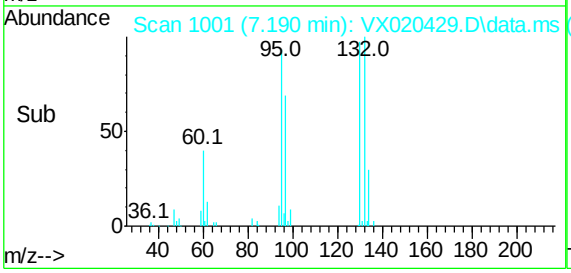


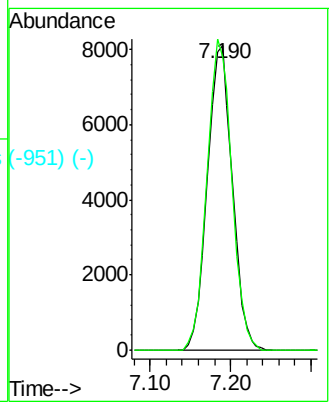
#44
Trichloroethene
Concen: 5.39 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

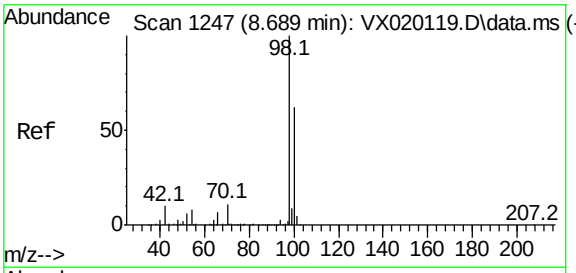
Tgt Ion:130 Resp: 17554

Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	198.0





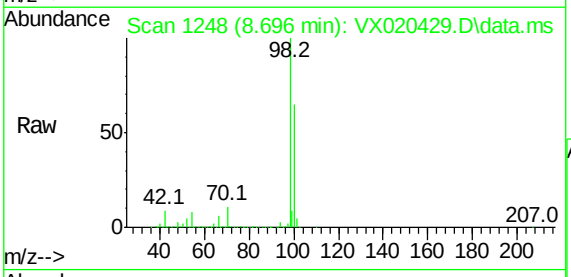


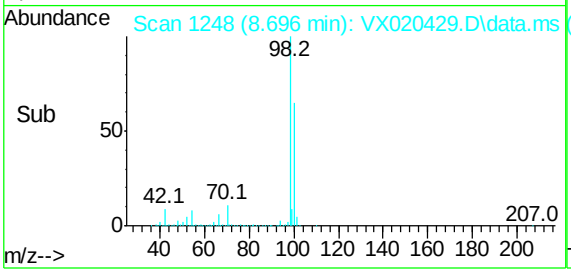


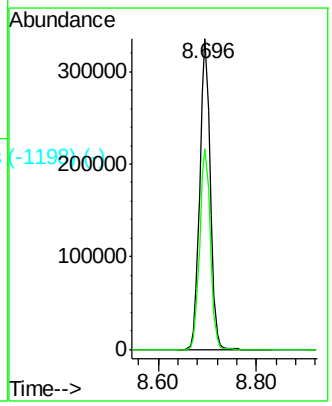
#50
Toluene-d8
Concen: 49.24 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion: 98 Resp: 496353

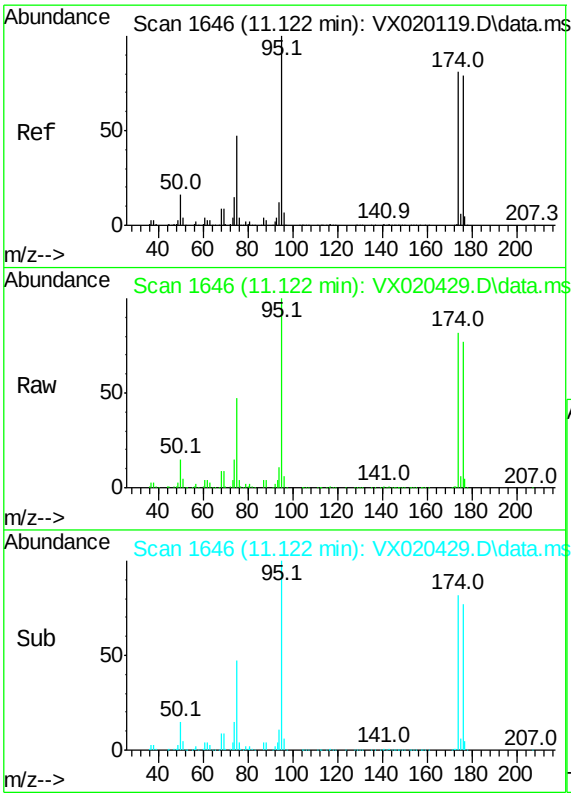
Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.9	77.9







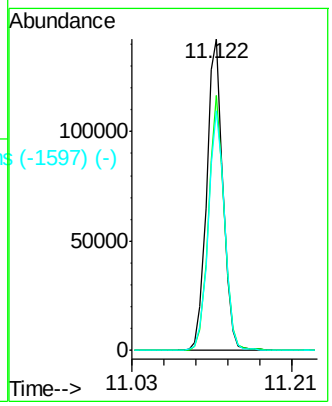
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

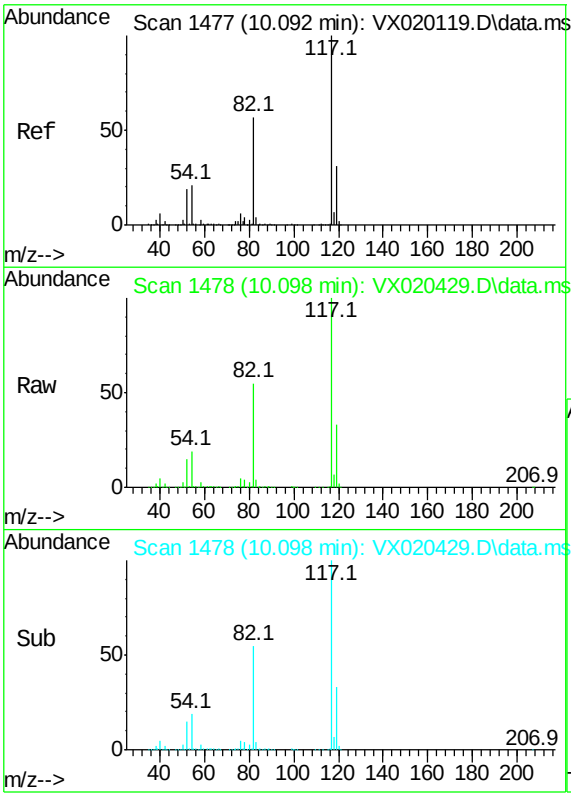


#62
4-Bromofluorobenzene
Concen: 46.52 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion: 95 Resp: 179491

Ion	Ratio	Lower	Upper
95	100		
174	78.6	0.0	154.6
176	76.7	0.0	155.8

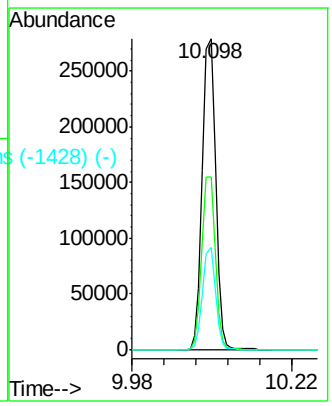




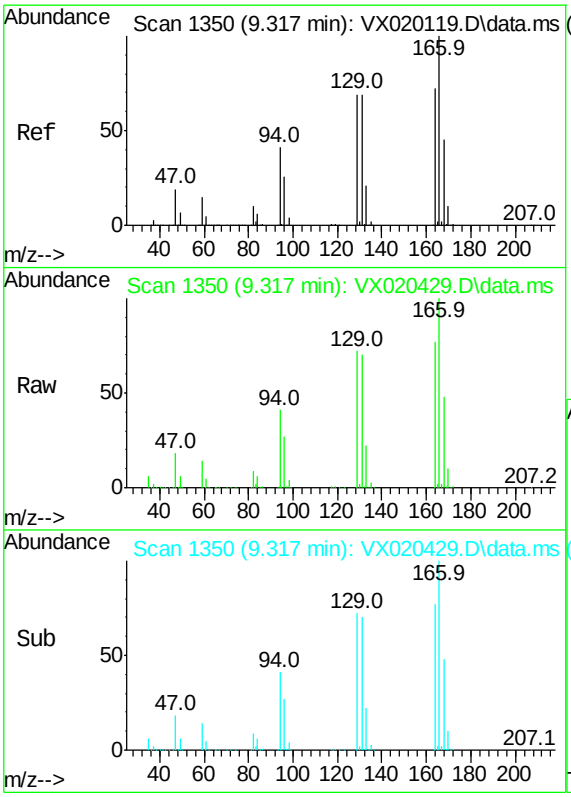
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion:117 Resp: 385711

Ion	Ratio	Lower	Upper
117	100		
82	55.4	47.4	71.2
119	32.7	26.6	39.8



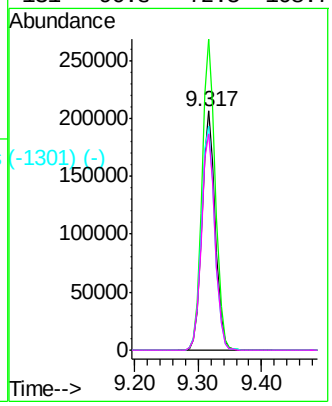
Instrument :
MSVOA_X
ClientSampleId :
1015-MW-01(23)DL

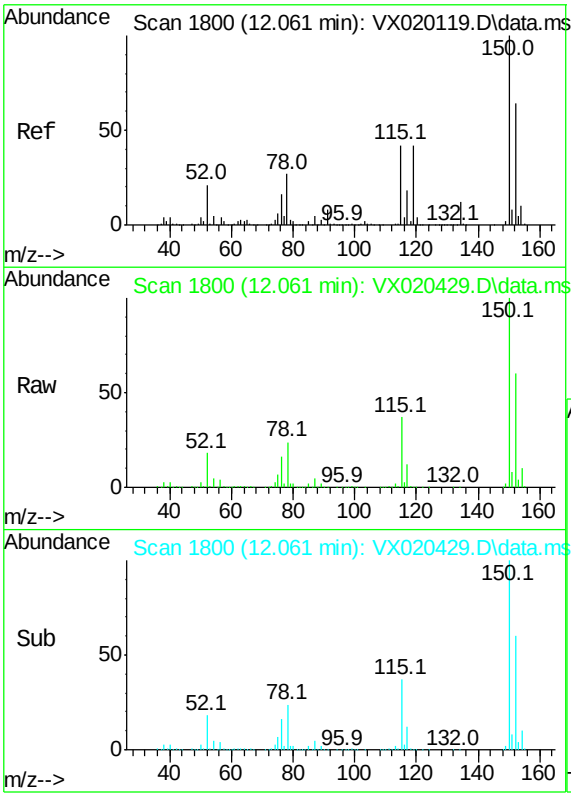


#64
Tetrachloroethene
Concen: 99.69 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion:164 Resp: 289714

Ion	Ratio	Lower	Upper
164	100		
166	130.2	103.4	155.2
129	93.6	70.8	106.2
131	90.8	72.5	108.7

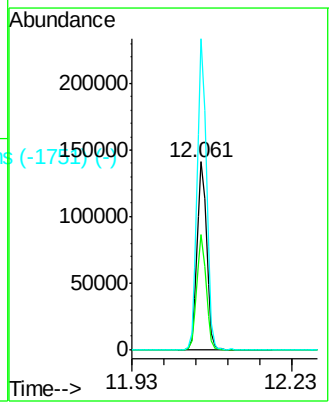




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020429.D
Acq: 29 Dec 2020 13:12

Tgt Ion:152 Resp: 170837

Ion	Ratio	Lower	Upper
152	100		
115	59.9	41.1	123.3
150	161.3	0.0	349.0



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)	SDG No.:	L5236
Lab Sample ID:	L5236-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020442.D	1		12/29/20 18:17	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	2.00		0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	3.50	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.30		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	28.3		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	34.5		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)	SDG No.:	L5236
Lab Sample ID:	L5236-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020442.D	1		12/29/20 18:17	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	56.7		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.8		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.5		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	245000	5.629			
540-36-3	1,4-Difluorobenzene	404000	6.83			
3114-55-4	Chlorobenzene-d5	377000	10.092			
3855-82-1	1,4-Dichlorobenzene-d4	161000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)	SDG No.:	L5236
Lab Sample ID:	L5236-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020442.D	1		12/29/20 18:17	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020442.D
Acq On : 29 Dec 2020 18:17
Operator : JC/MD
Sample : L5236-02
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

Quant Time: Dec 30 02:39:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

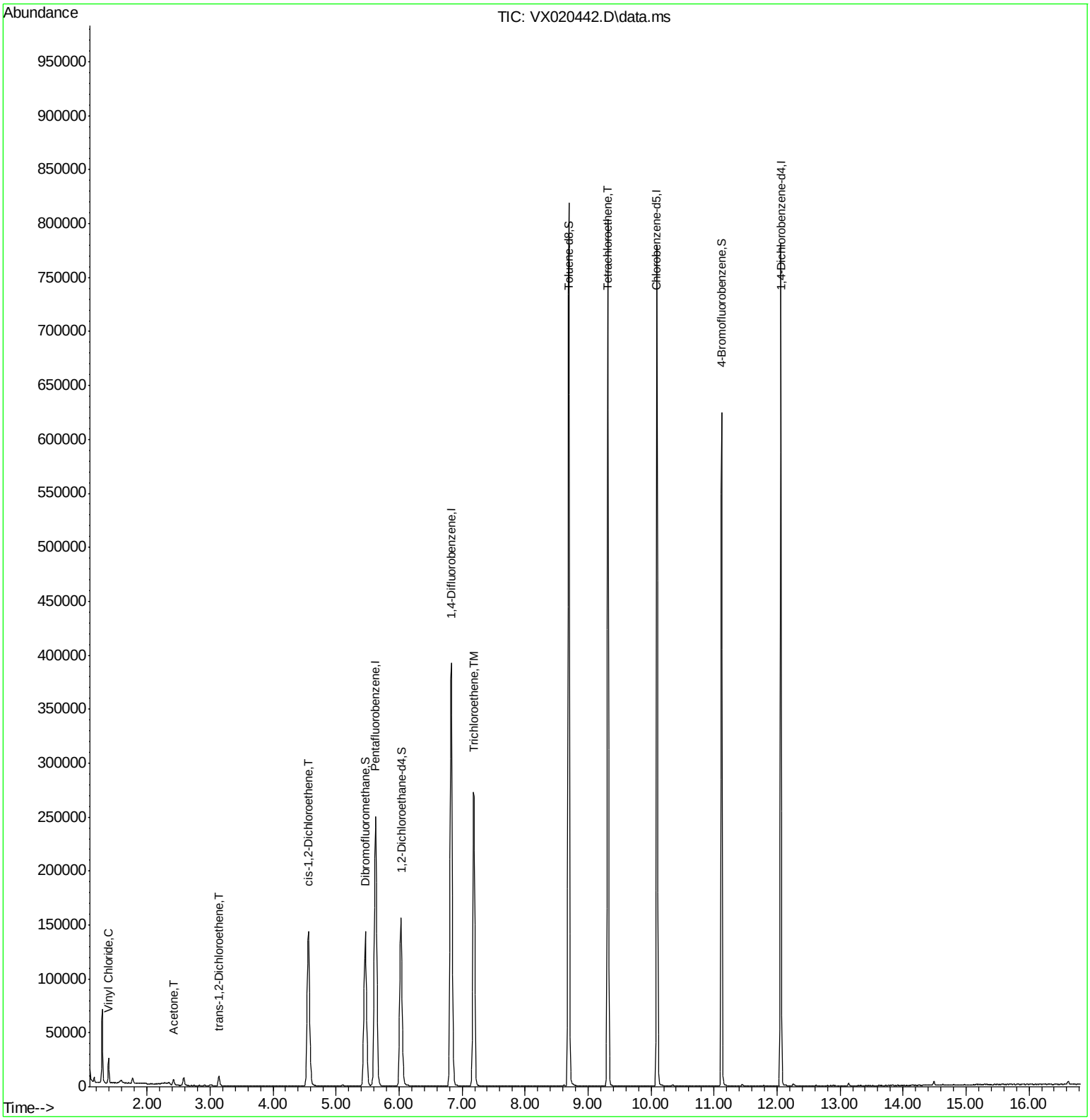
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	244654	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	403891	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	377336	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	161098	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	146924	44.80	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 89.60%			
35) Dibromofluoromethane	5.464	113	125724	48.66	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.32%			
50) Toluene-d8	8.696	98	492064	49.48	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.96%			
62) 4-Bromofluorobenzene	11.122	95	174406	45.82	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 91.64%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.392	62	6586	1.96	ug/l	100
16) Acetone	2.422	43	5173	3.46	ug/l	95
21) trans-1,2-Dichloroethene	3.142	96	3818	1.26	ug/l	94
27) cis-1,2-Dichloroethene	4.562	96	96954	28.33	ug/l	89
44) Trichloroethene	7.190	130	110754	34.48	ug/l	95
64) Tetrachloroethene	9.317	164	161328	56.74	ug/l	94

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

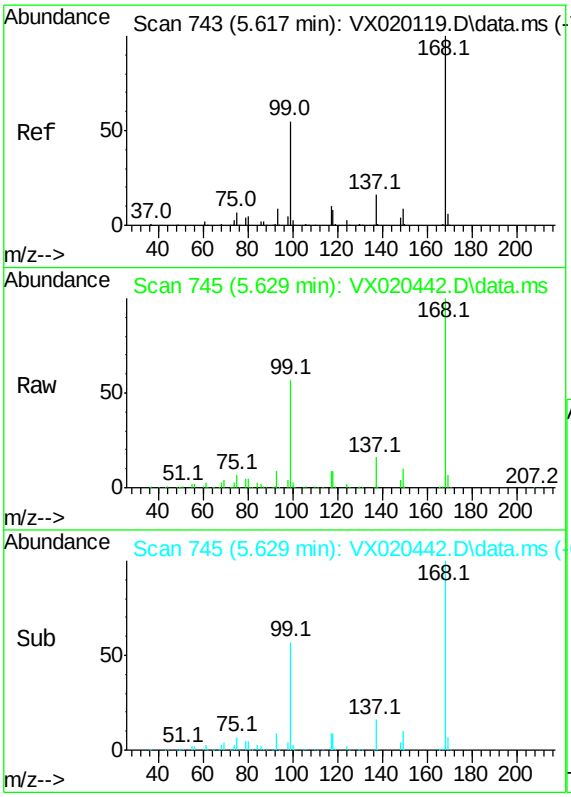
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020442.D
Acq On : 29 Dec 2020 18:17
Operator : JC/MD
Sample : L5236-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

Quant Time: Dec 30 02:39:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



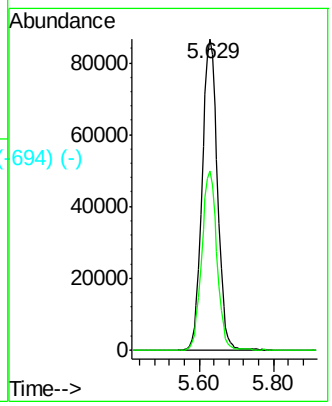
Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

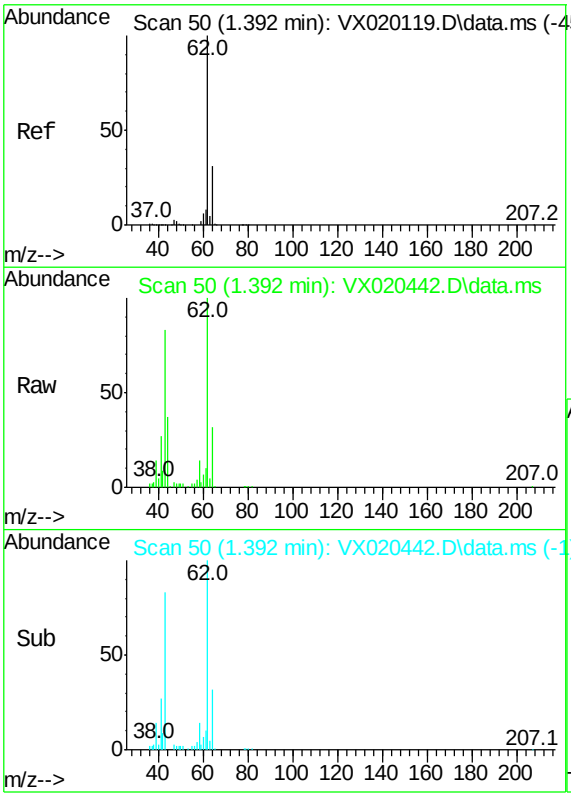


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion:168 Resp: 244654

Ion	Ratio	Lower	Upper
168	100		
99	57.4	45.8	68.6

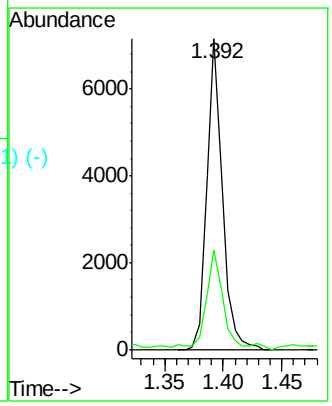




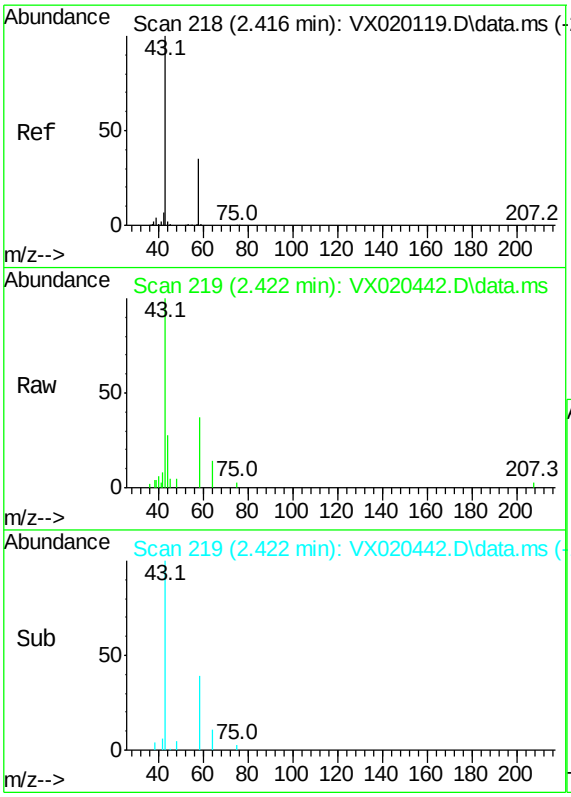
#4
Vinyl Chloride
Concen: 1.96 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion: 62 Resp: 6586

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5



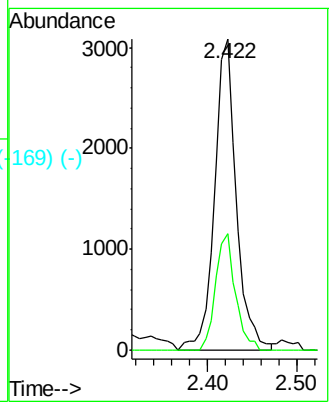
Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

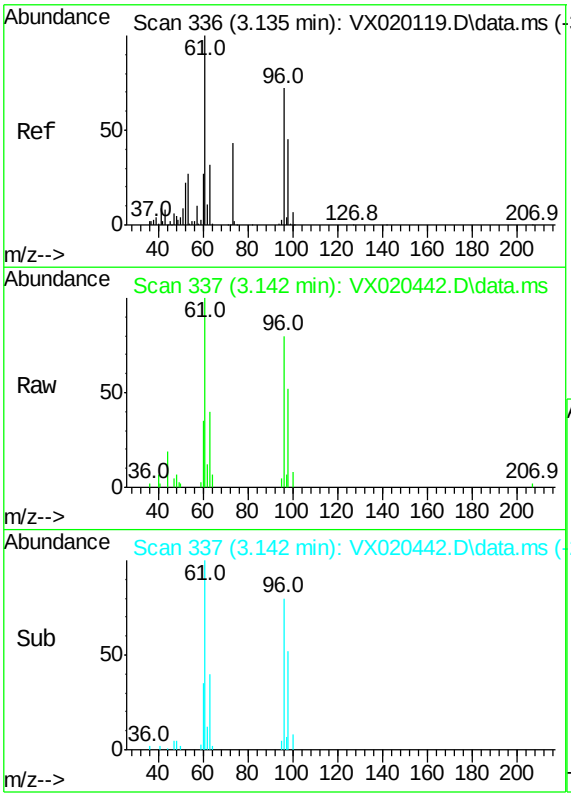


#16
Acetone
Concen: 3.46 ug/l
RT: 2.422 min Scan# 219
Delta R.T. 0.006 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion: 43 Resp: 5173

Ion	Ratio	Lower	Upper
43	100		
58	37.5	27.8	41.8

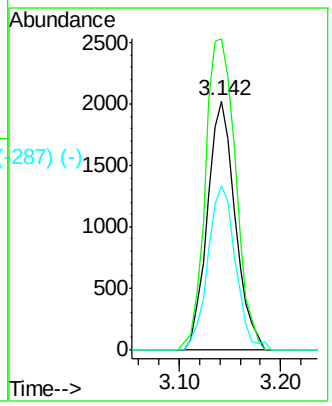




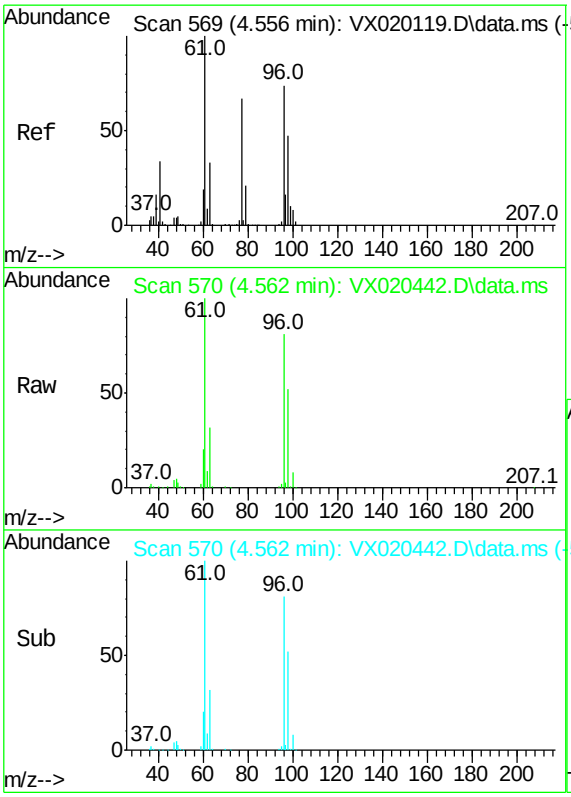
#21
trans-1,2-Dichloroethene
Concen: 1.26 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion: 96 Resp: 3818

Ion	Ratio	Lower	Upper
96	100		
61	125.2	107.7	161.5
98	65.6	50.4	75.6



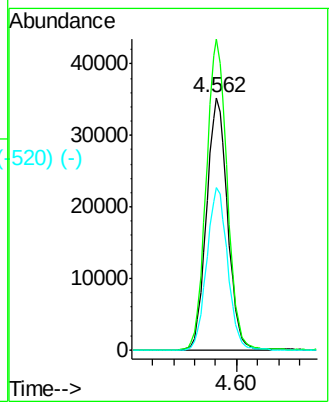
Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

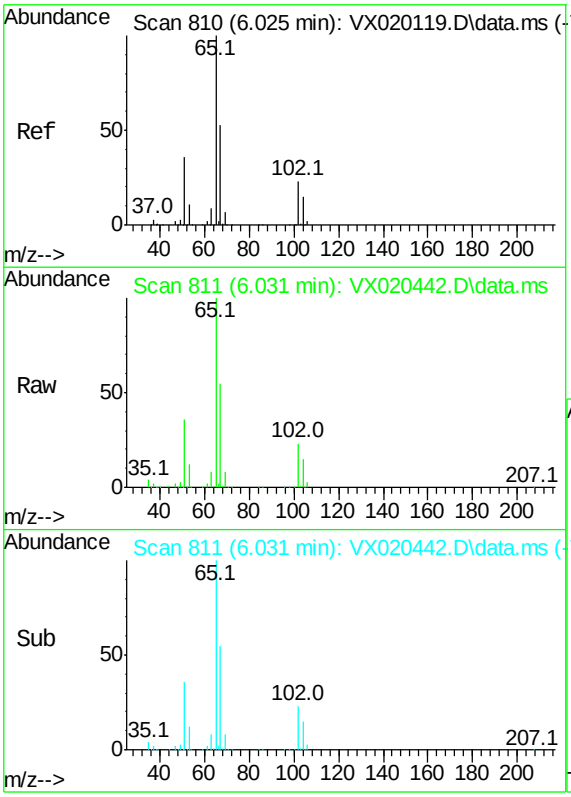


#27
cis-1,2-Dichloroethene
Concen: 28.33 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion: 96 Resp: 96954

Ion	Ratio	Lower	Upper
96	100		
61	123.5	0.0	285.6
98	64.2	0.0	129.6

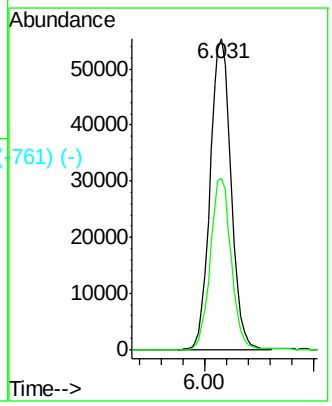




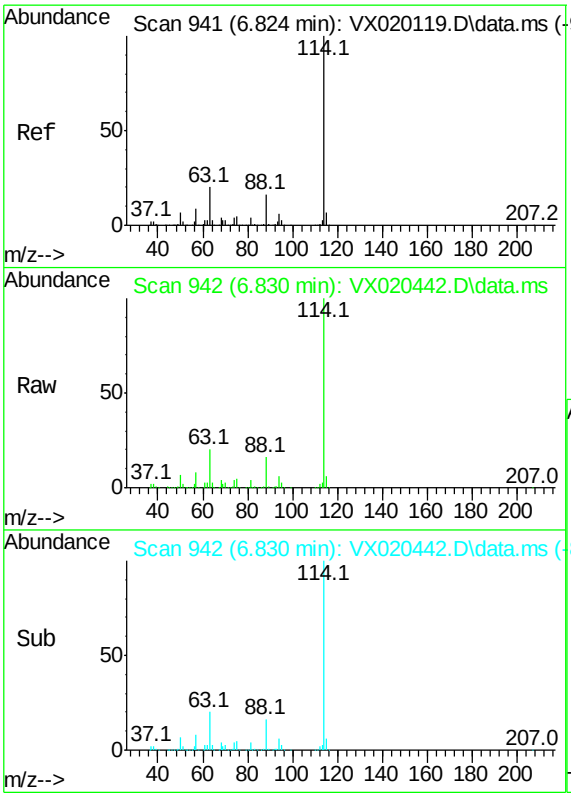
#33
1,2-Dichloroethane-d4
Concen: 44.80 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion: 65 Resp: 146924

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.4



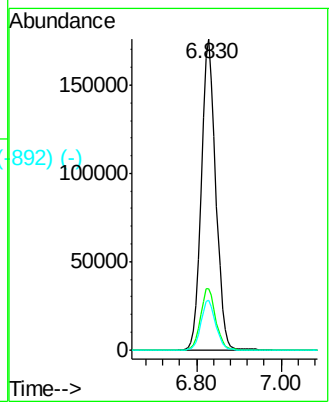
Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

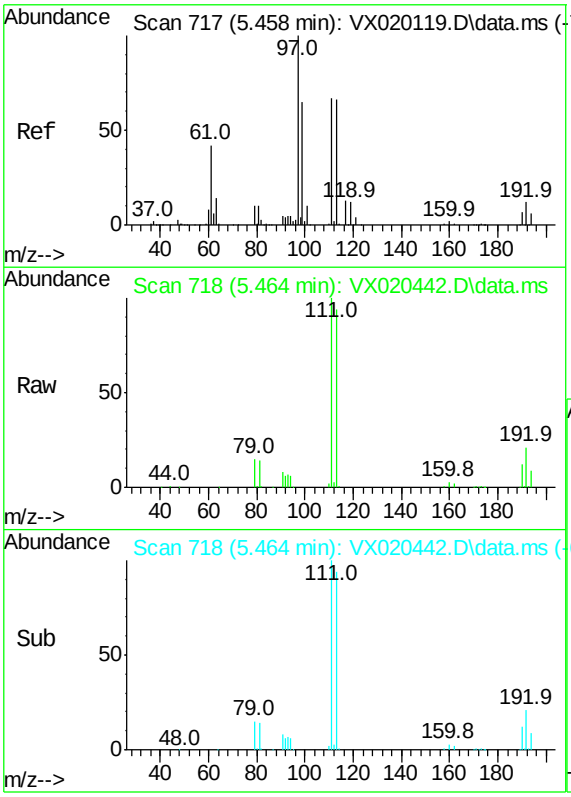


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion:114 Resp: 403891

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.8
88	15.8	0.0	32.8

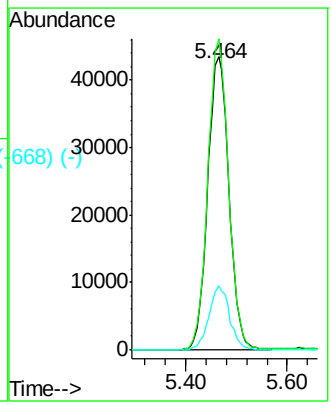




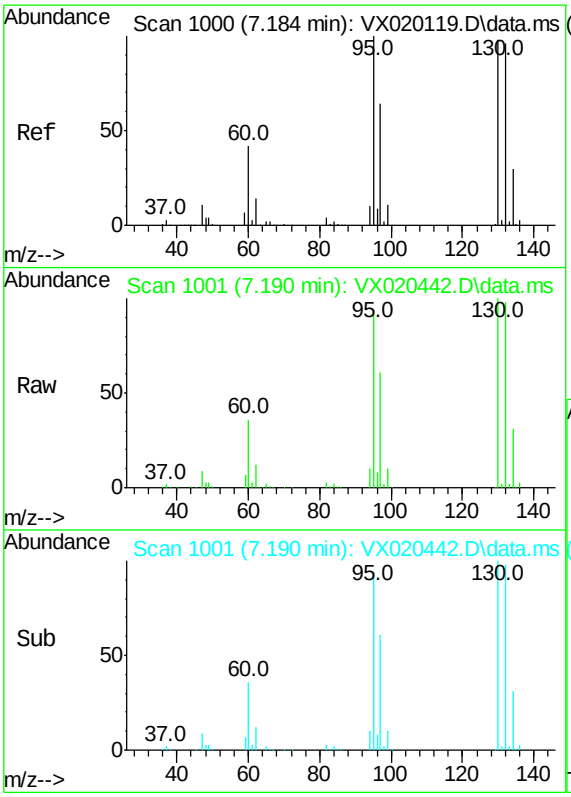
#35
Dibromofluoromethane
Concen: 48.66 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion:113 Resp: 125724

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.9	122.9
192	20.8	16.7	25.1



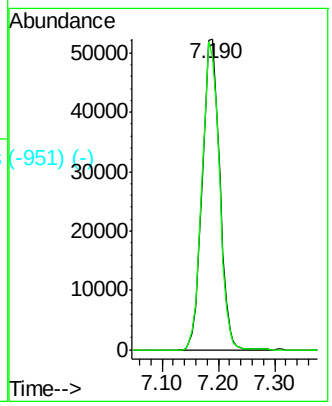
Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

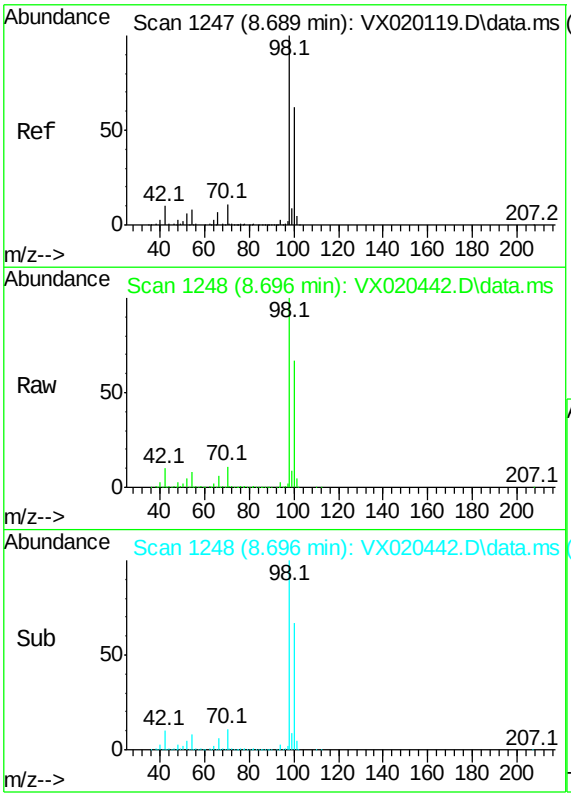


#44
Trichloroethene
Concen: 34.48 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion:130 Resp: 110754

Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	198.0

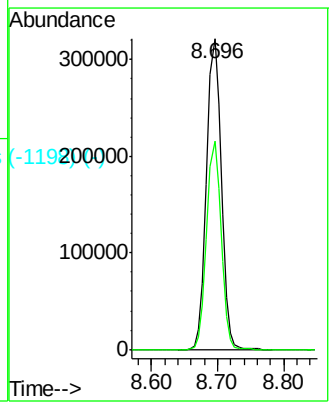




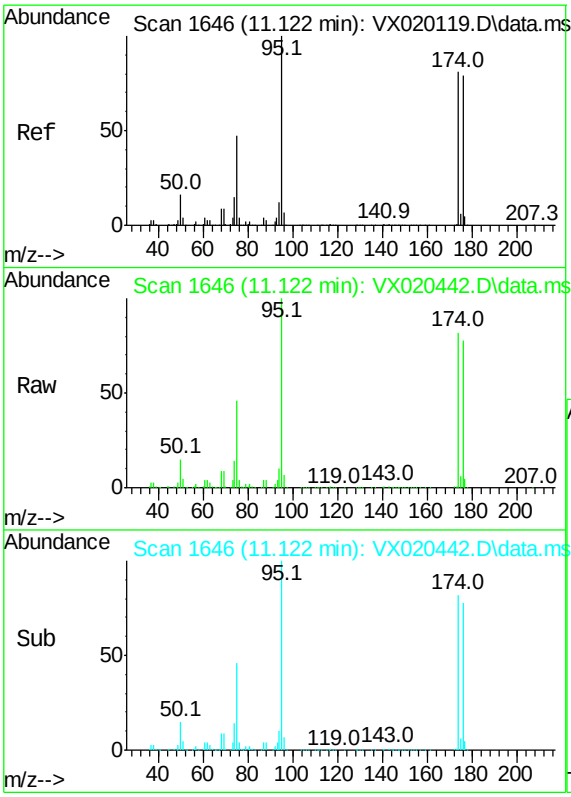
#50
Toluene-d8
Concen: 49.48 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion: 98 Resp: 492064

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.9	77.9



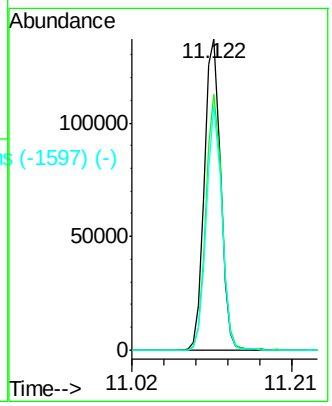
Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

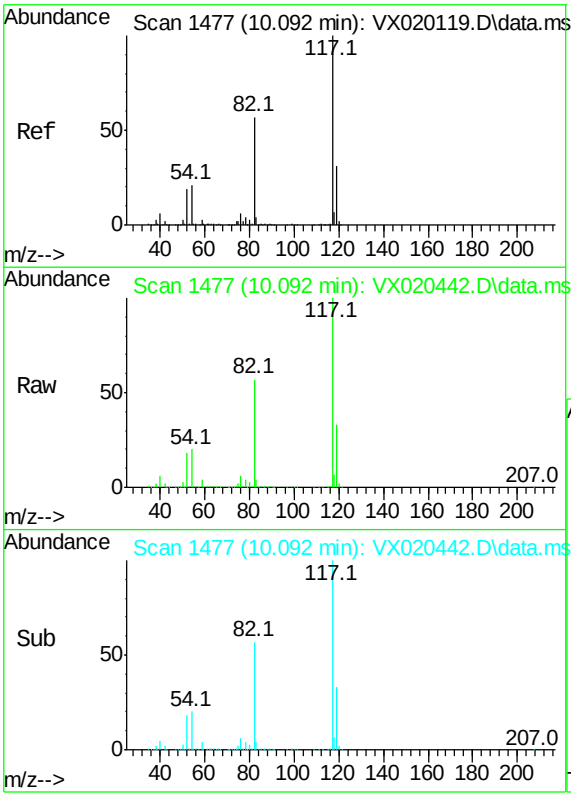


#62
4-Bromofluorobenzene
Concen: 45.82 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion: 95 Resp: 174406

Ion	Ratio	Lower	Upper
95	100		
174	80.4	0.0	154.6
176	74.5	0.0	155.8

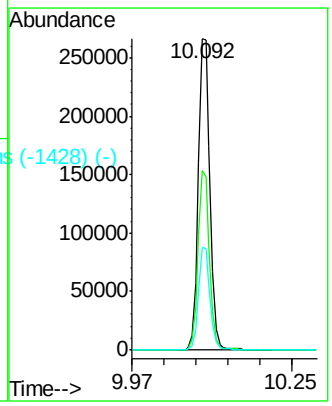




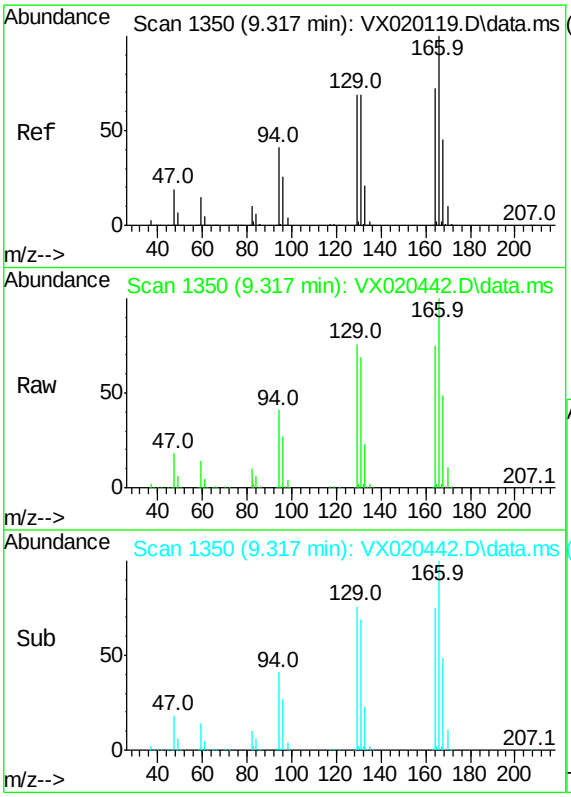
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion:117 Resp: 377336

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.4	71.2
119	32.7	26.6	39.8



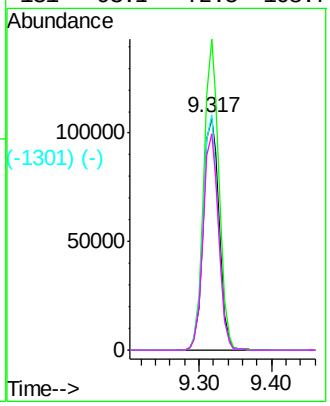
Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

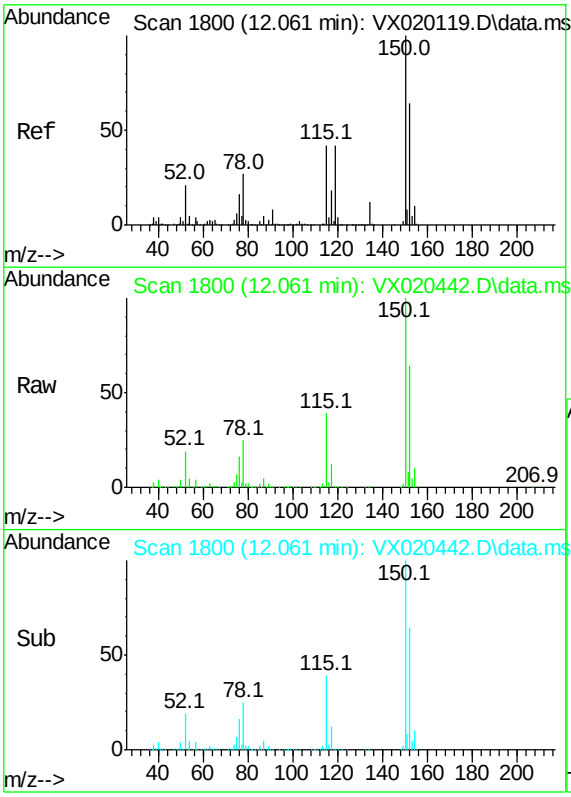


#64
Tetrachloroethene
Concen: 56.74 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion:164 Resp: 161328

Ion	Ratio	Lower	Upper
164	100		
166	134.2	103.4	155.2
129	101.4	70.8	106.2
131	93.1	72.5	108.7

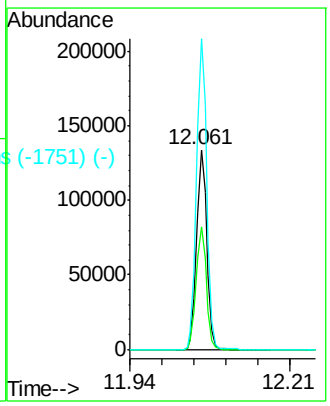




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020442.D
Acq: 29 Dec 2020 18:17

Tgt Ion:152 Resp: 161098

Ion	Ratio	Lower	Upper
152	100		
115	61.1	41.1	123.3
150	155.5	0.0	349.0



Sample Results: **VX020442.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020442.D
Acq On : 29 Dec 2020 18:17
Operator : JC/MD
Sample : L5236-02
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020442.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.288	29	33	43	rVB	68408	69917	5.52%	0.793%
2	1.392	43	50	55	rBV	23836	24058	1.90%	0.273%
3	2.581	239	245	256	rVB	7223	14167	1.12%	0.161%
4	3.142	330	337	345	rBV	9338	17492	1.38%	0.198%
5	4.562	559	570	587	rBV	143508	396292	31.29%	4.492%
6	5.464	705	718	734	rBV	143491	407454	32.17%	4.618%
7	5.629	734	745	765	rVB	249754	700424	55.31%	7.939%
8	6.031	793	811	828	rBV	156373	417357	32.95%	4.731%
9	6.830	931	942	961	rBV	392458	918116	72.49%	10.407%
10	7.184	990	1000	1012	rBV	272652	584896	46.18%	6.630%
11	8.696	1241	1248	1265	rBV	818823	1266475	100.00%	14.355%
12	9.317	1343	1350	1359	rBV	803160	1184980	93.57%	13.432%
13	10.092	1471	1477	1494	rBV	779192	1085960	85.75%	12.309%
14	11.122	1640	1646	1655	rBV	624229	791468	62.49%	8.971%
15	12.061	1795	1800	1808	rBV	780207	943201	74.47%	10.691%

Sum of corrected areas: 8822257

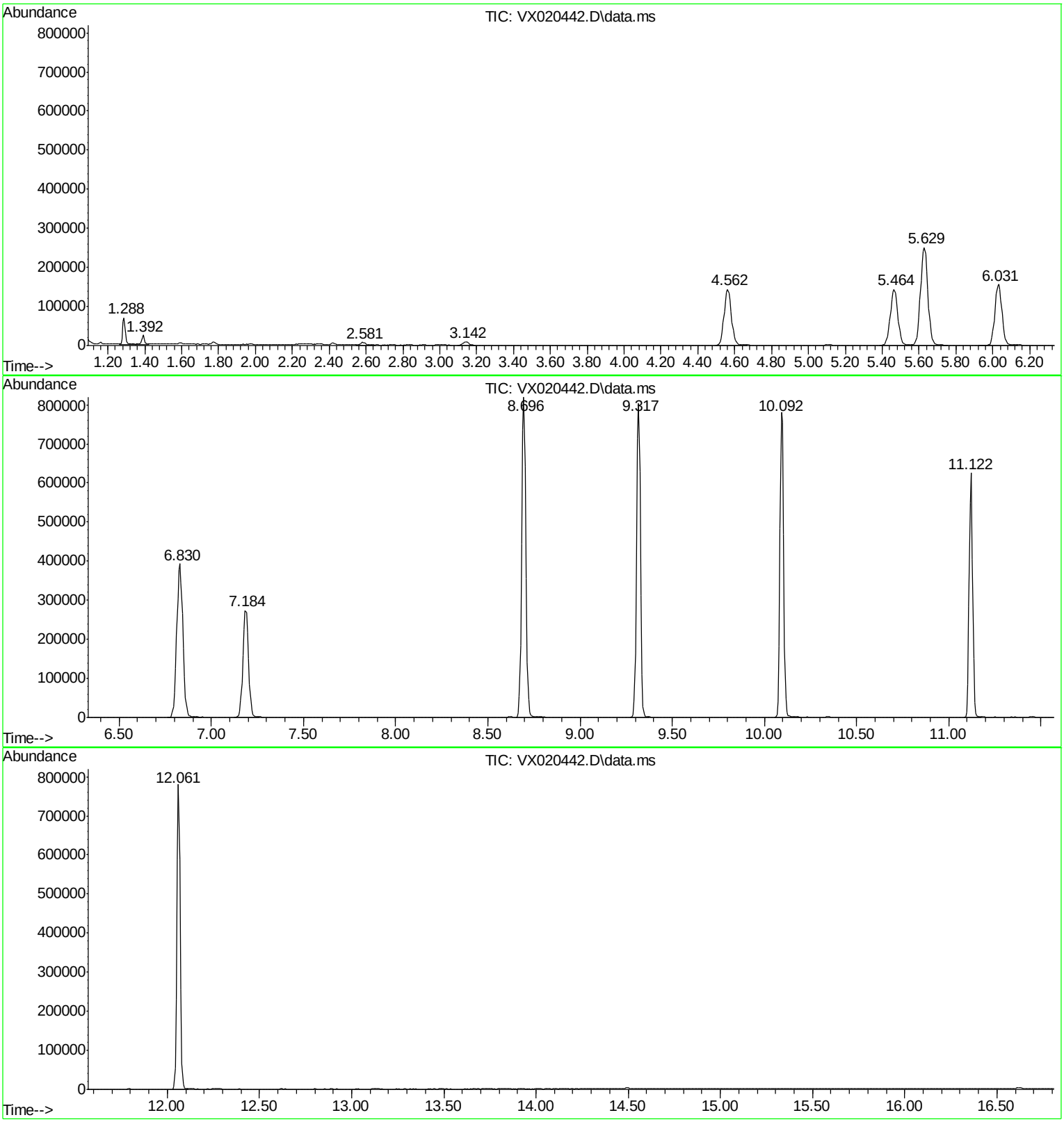
Sample Results: **VX020442.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020442.D
Acq On : 29 Dec 2020 18:17
Operator : JC/MD
Sample : L5236-02
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020442.D
Acq On : 29 Dec 2020 18:17
Operator : JC/MD
Sample : L5236-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020442.D
Acq On : 29 Dec 2020 18:17
Operator : JC/MD
Sample : L5236-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1017-MW-03A(17)	SDG No.:	L5236
Lab Sample ID:	L5236-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020430.D	1		12/29/20 13:35	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	3.80	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	6.50		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	74.5		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	93.3		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1017-MW-03A(17)	SDG No.:	L5236
Lab Sample ID:	L5236-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020430.D	1		12/29/20 13:35	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	430	E	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		83 - 123	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	5.629			
540-36-3	1,4-Difluorobenzene	398000	6.83			
3114-55-4	Chlorobenzene-d5	365000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	153000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1017-MW-03A(17)	SDG No.:	L5236
Lab Sample ID:	L5236-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020430.D	1		12/29/20 13:35	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020430.D
Acq On : 29 Dec 2020 13:35
Operator : JC/MD
Sample : L5236-05
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

Quant Time: Dec 30 02:36:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

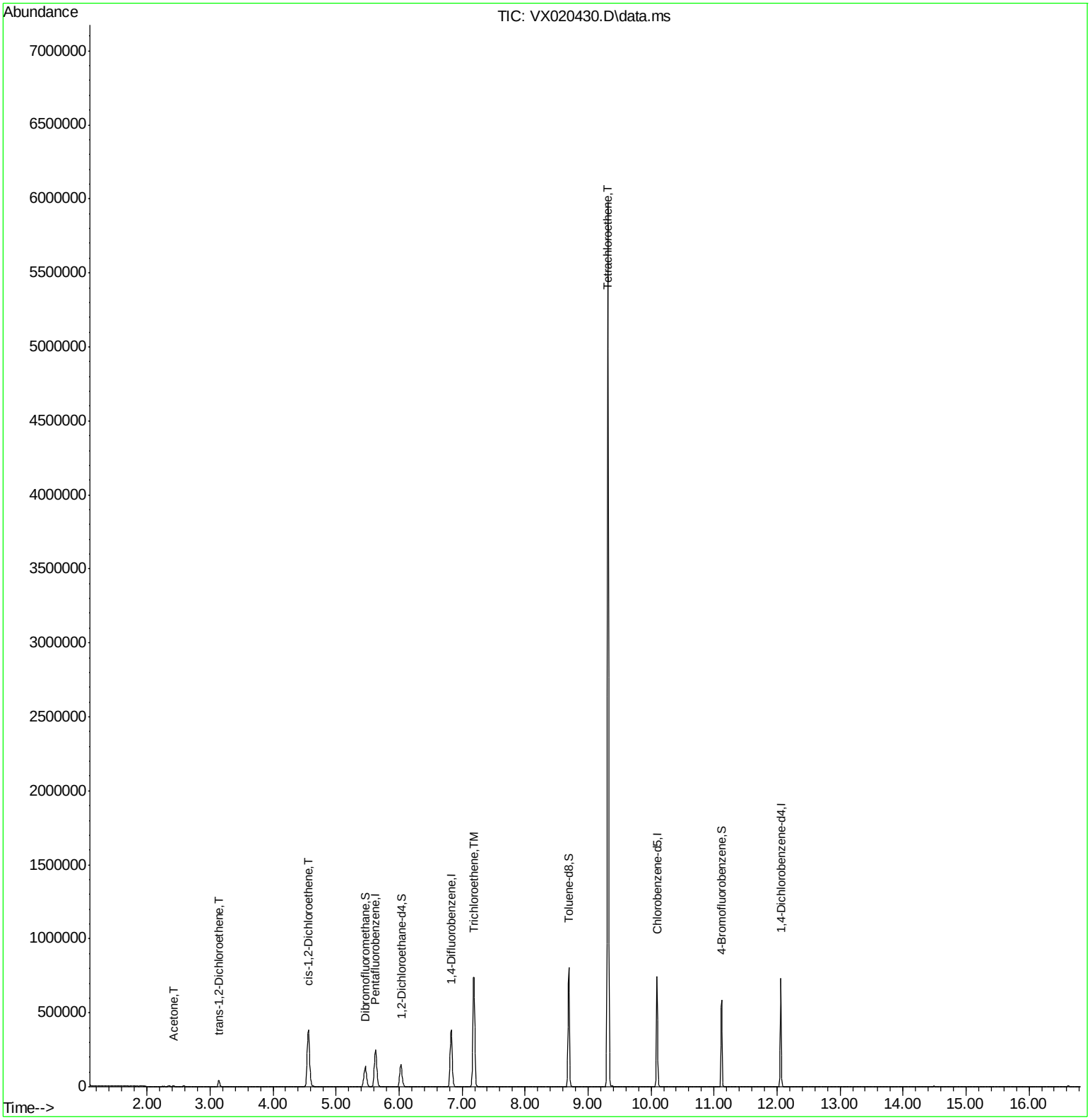
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	243439	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	398227	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	364995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	152677	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	144456	44.27	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 88.54%			
35) Dibromofluoromethane	5.465	113	123425	48.45	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.90%			
50) Toluene-d8	8.696	98	478533	48.80	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 97.60%			
62) 4-Bromofluorobenzene	11.122	95	166162	44.27	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 88.54%			
Target Compounds						Qvalue
16) Acetone	2.416	43	5691	3.82	ug/l	98
21) trans-1,2-Dichloroethene	3.142	96	19519	6.47	ug/l	98
27) cis-1,2-Dichloroethene	4.562	96	253829	74.53	ug/l	90
44) Trichloroethene	7.190	130	295527	93.32	ug/l	99
64) Tetrachloroethene	9.317	164	1174623	427.12	ug/l	95

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

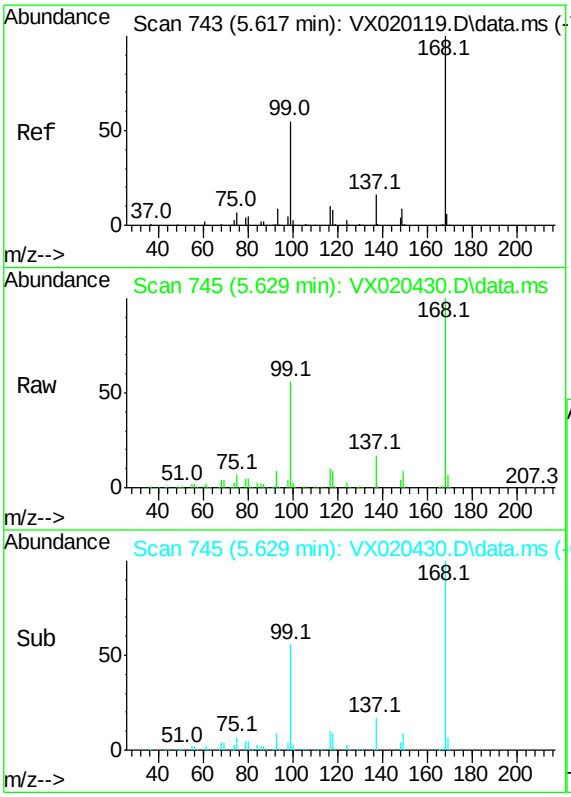
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020430.D
Acq On : 29 Dec 2020 13:35
Operator : JC/MD
Sample : L5236-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

Quant Time: Dec 30 02:36:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



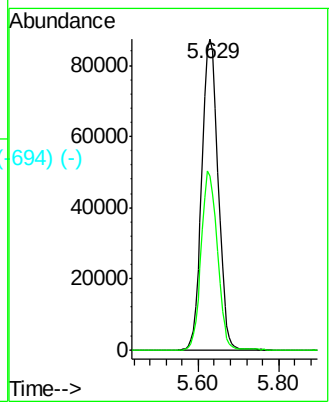
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

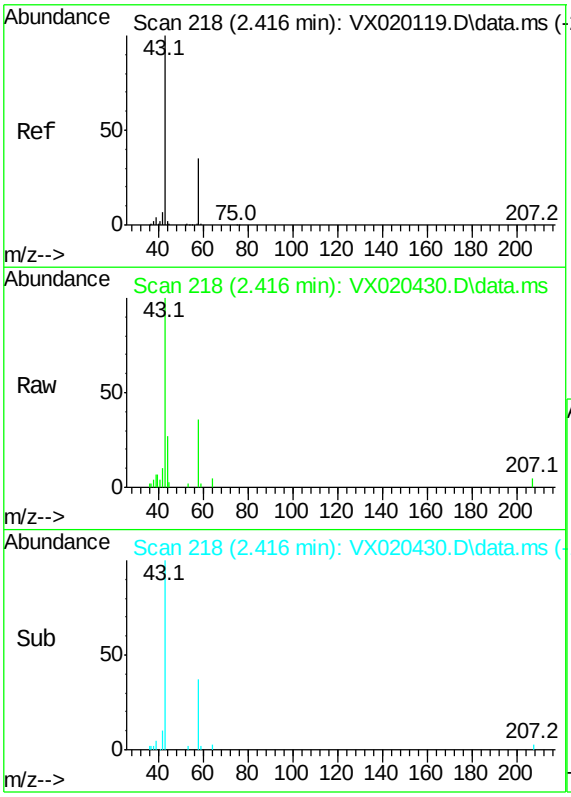


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion:168 Resp: 243439

Ion	Ratio	Lower	Upper
168	100		
99	56.1	45.8	68.6

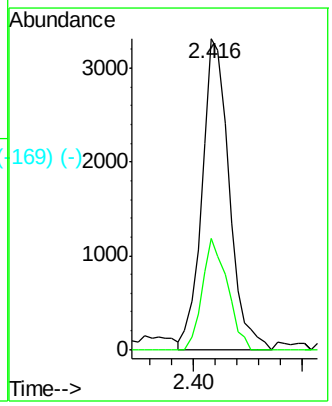




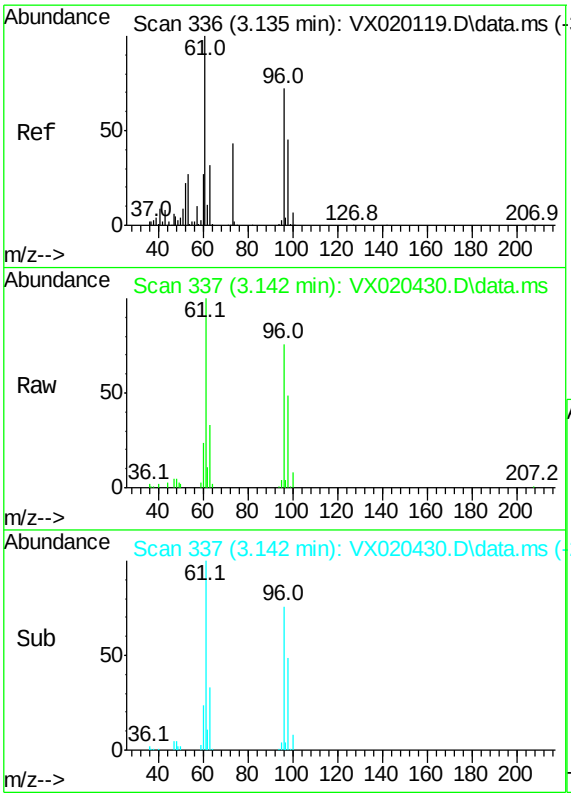
#16
Acetone
Concen: 3.82 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion: 43 Resp: 5691

Ion	Ratio	Lower	Upper
43	100		
58	35.9	27.8	41.8



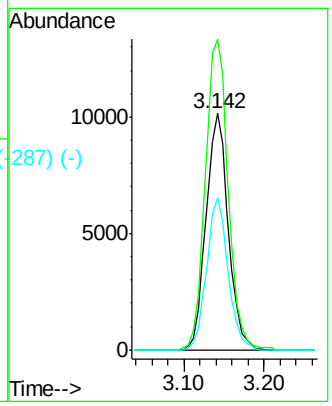
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

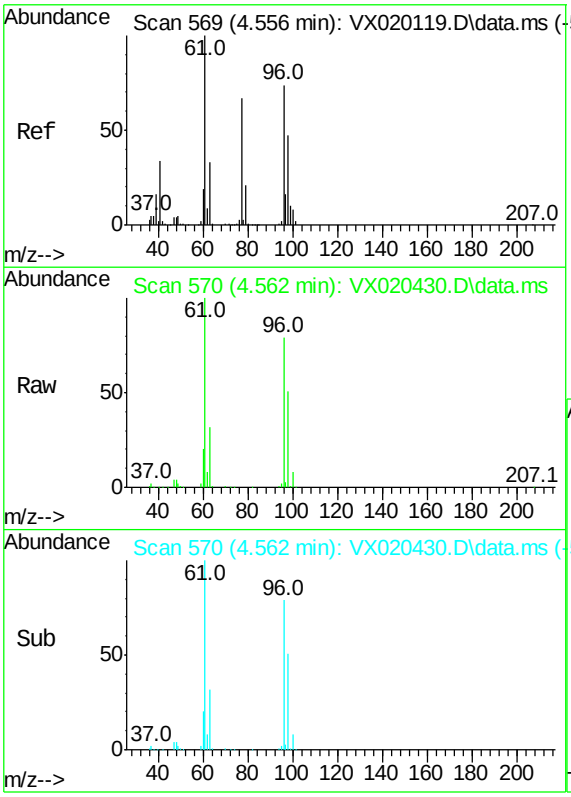


#21
trans-1,2-Dichloroethene
Concen: 6.47 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion: 96 Resp: 19519

Ion	Ratio	Lower	Upper
96	100		
61	131.5	107.7	161.5
98	64.1	50.4	75.6

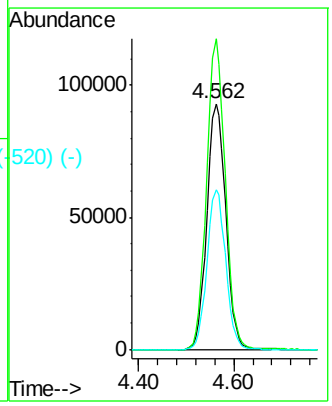




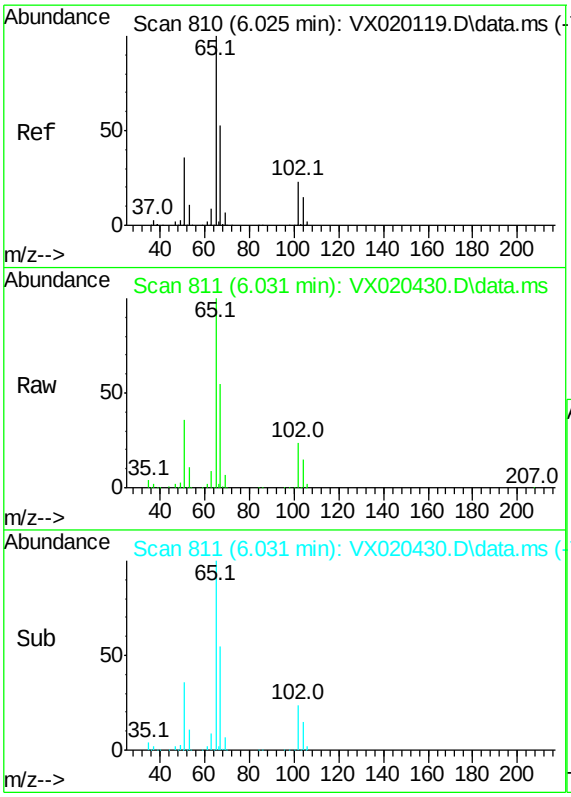
#27
cis-1,2-Dichloroethene
Concen: 74.53 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion: 96 Resp: 253829

Ion	Ratio	Lower	Upper
96	100		
61	125.0	0.0	285.6
98	64.6	0.0	129.6



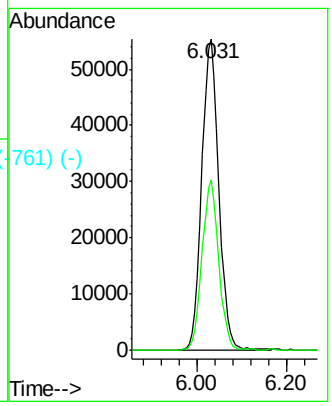
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

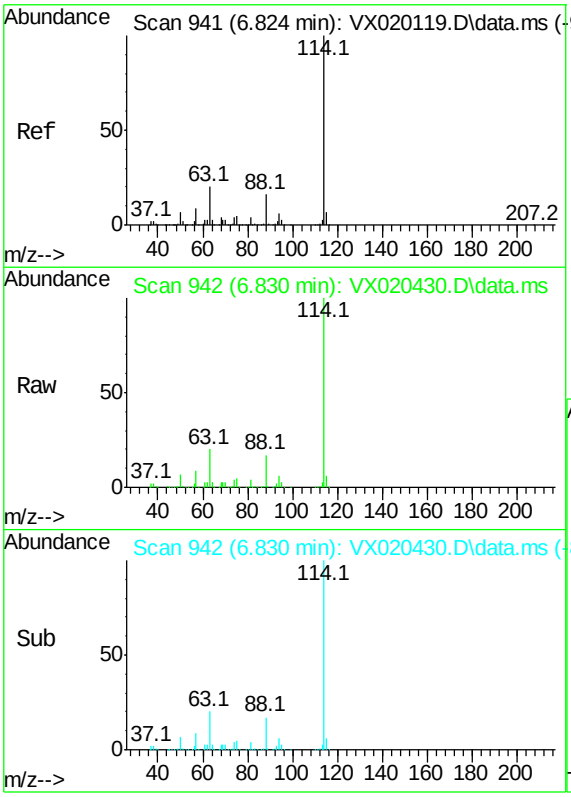


#33
1,2-Dichloroethane-d4
Concen: 44.27 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion: 65 Resp: 144456

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	105.4

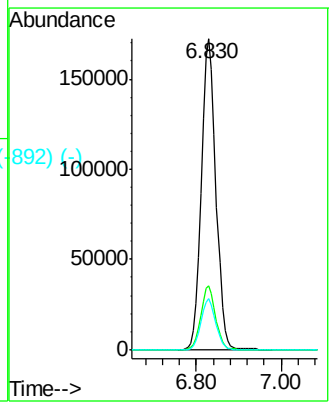




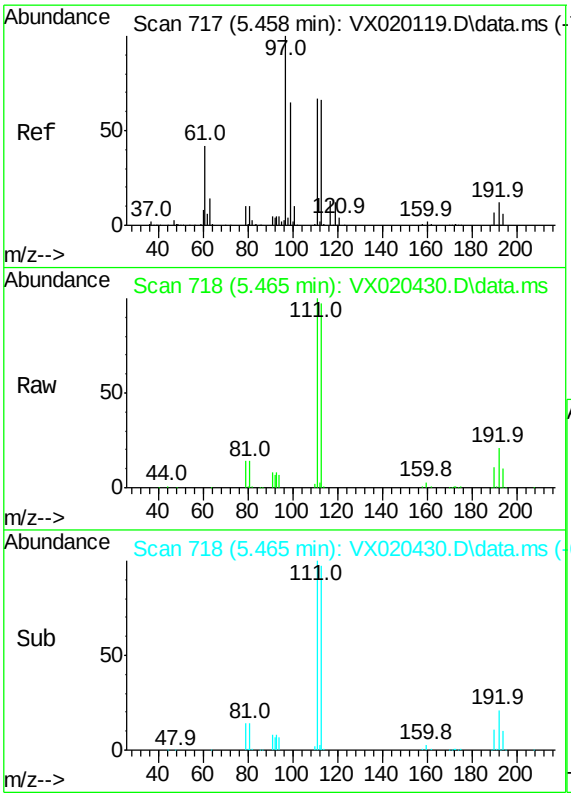
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion:114 Resp: 398227

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	16.5	0.0	32.8



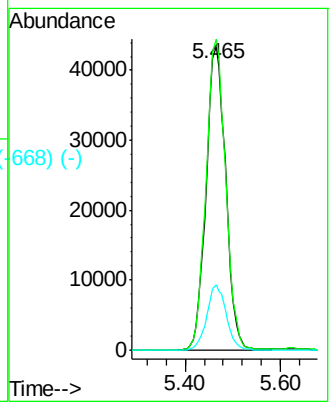
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

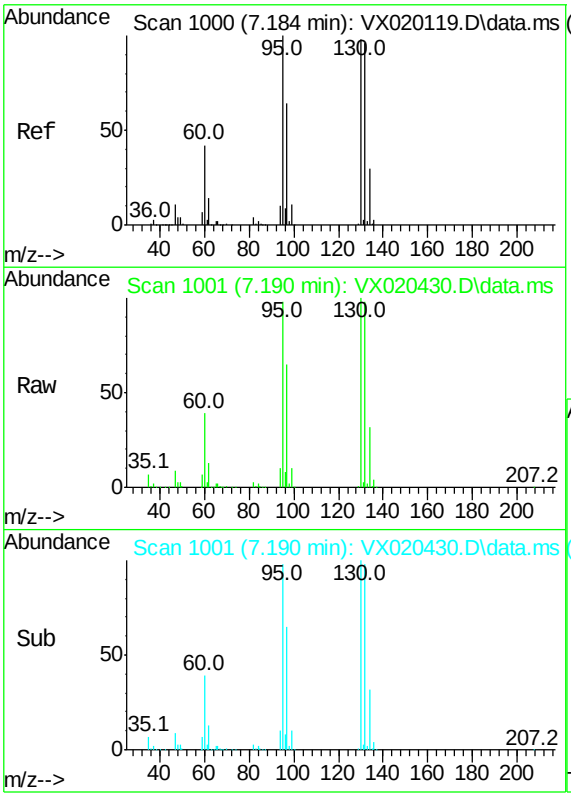


#35
Dibromofluoromethane
Concen: 48.45 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion:113 Resp: 123425

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.9	122.9
192	20.9	16.7	25.1

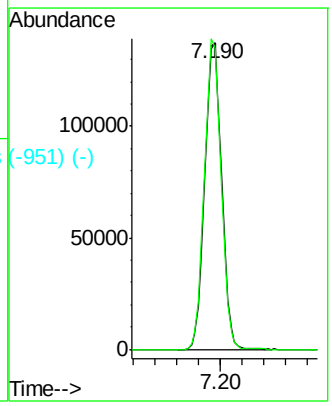




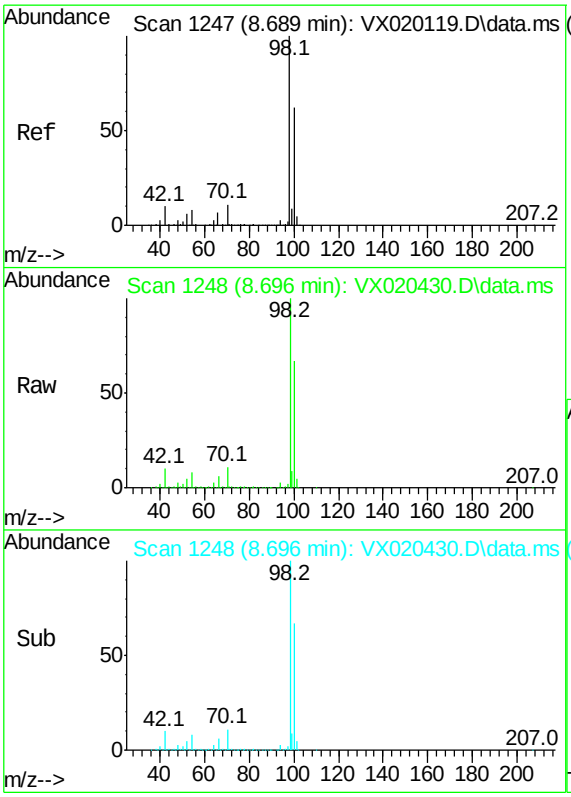
#44
Trichloroethene
Concen: 93.32 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion:130 Resp: 295527

Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	198.0



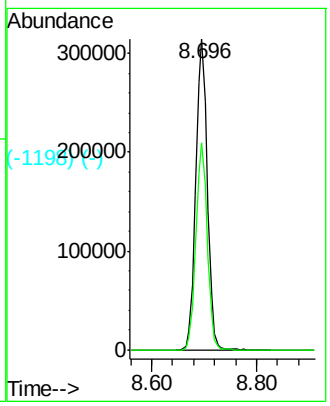
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

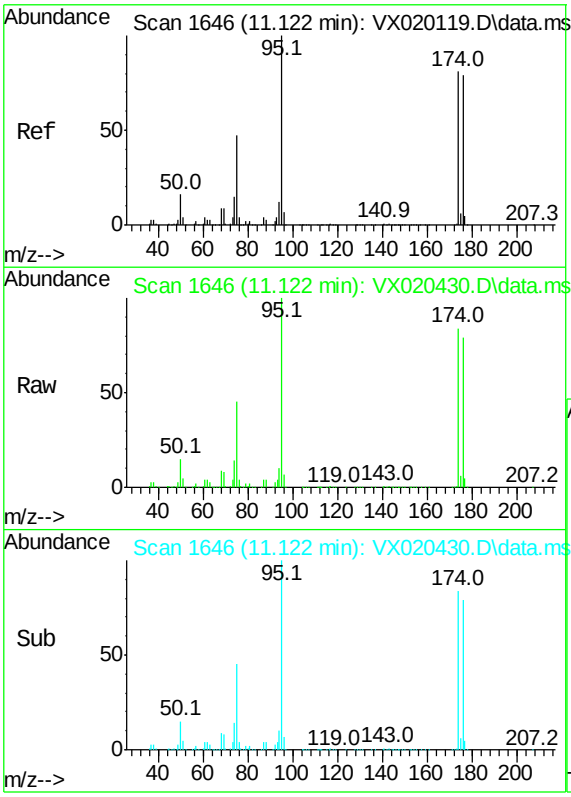


#50
Toluene-d8
Concen: 48.80 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion: 98 Resp: 478533

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.9	77.9

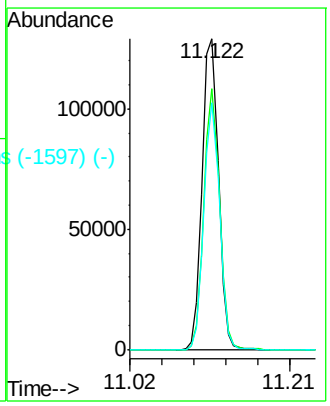




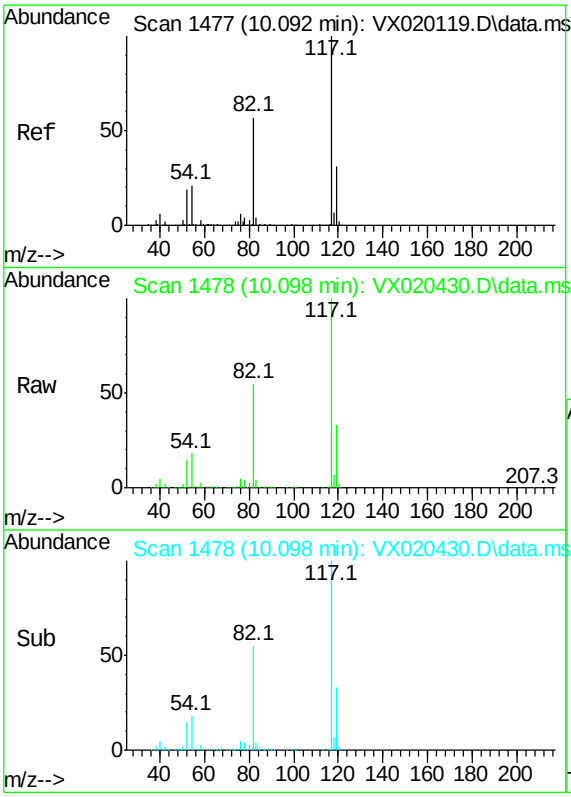
#68
4-Bromofluorobenzene
Concen: 44.27 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion: 95 Resp: 166162

Ion	Ratio	Lower	Upper
95	100		
174	80.2	0.0	154.6
176	76.2	0.0	155.8



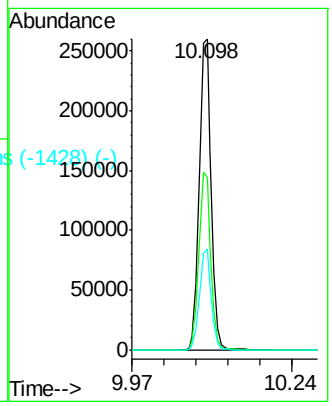
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

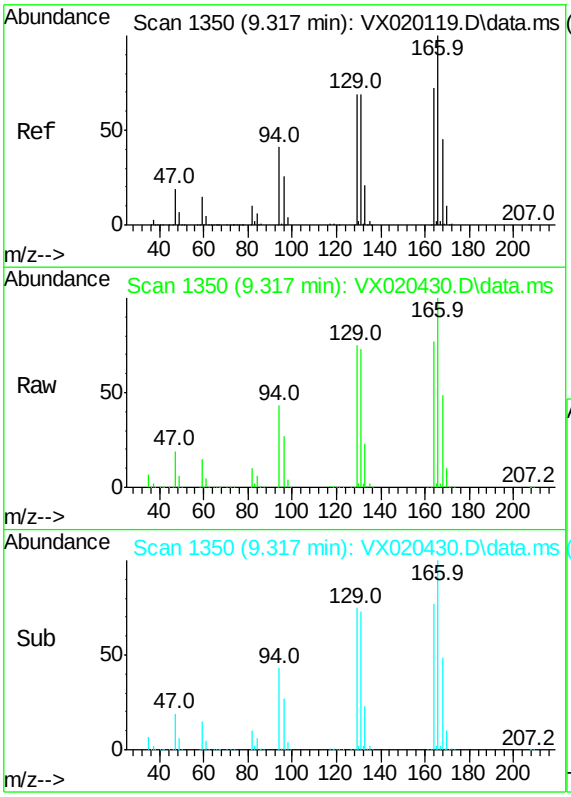


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion:117 Resp: 364995

Ion	Ratio	Lower	Upper
117	100		
82	55.4	47.4	71.2
119	32.6	26.6	39.8

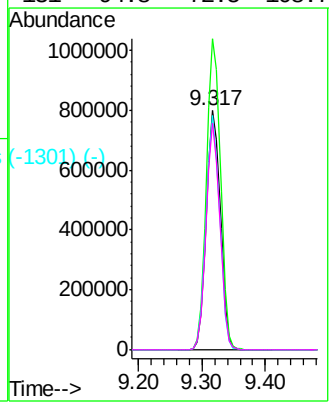




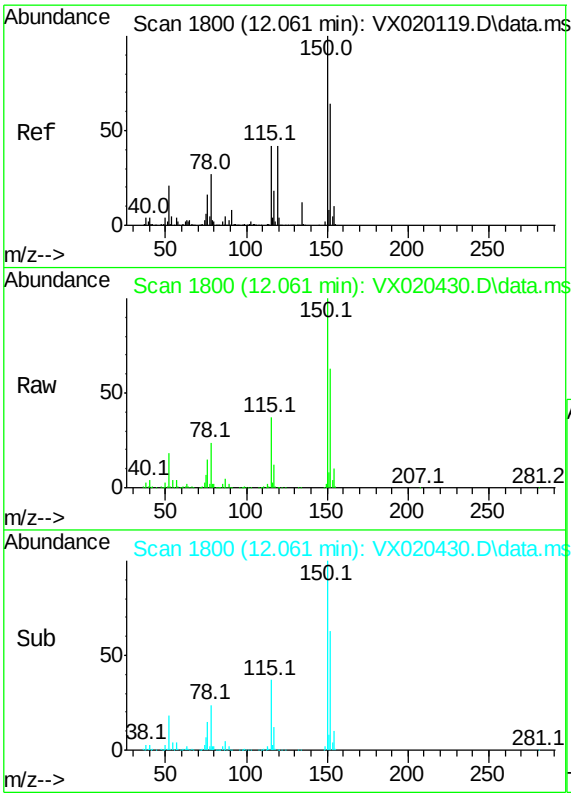
#64
Tetrachloroethene
Concen: 427.12 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion:164 Resp: 1174623

Ion	Ratio	Lower	Upper
164	100		
166	130.3	103.4	155.2
129	98.3	70.8	106.2
131	94.8	72.5	108.7



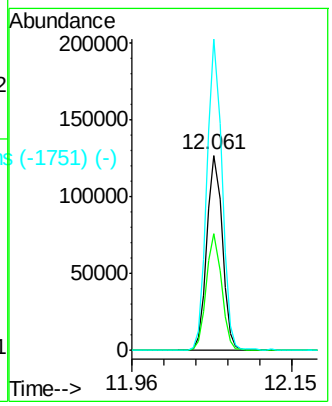
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020430.D
Acq: 29 Dec 2020 13:35

Tgt Ion:152 Resp: 152677

Ion	Ratio	Lower	Upper
152	100		
115	58.9	41.1	123.3
150	155.7	0.0	349.0



Sample Results: **VX020430.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020430.D
Acq On : 29 Dec 2020 13:35
Operator : JC/MD
Sample : L5236-05
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020430.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.142	329	337	346	rBV	44610	86906	1.00%	0.491%
2	4.562	557	570	592	rBV	383230	1048098	12.10%	5.923%
3	5.465	706	718	731	rBV	140424	398884	4.61%	2.254%
4	5.629	732	745	759	rVV	250332	698887	8.07%	3.949%
5	6.031	798	811	822	rBV	155370	403977	4.66%	2.283%
6	6.830	929	942	961	rBV	385330	898885	10.38%	5.079%
7	7.190	991	1001	1017	rBV	737322	1586987	18.33%	8.968%
8	8.696	1240	1248	1263	rBV	803769	1229283	14.20%	6.946%
9	9.317	1343	1350	1375	rBV	5978555	8659796	100.00%	48.934%
10	10.092	1471	1477	1491	rBV	743517	1046658	12.09%	5.914%
11	11.122	1640	1646	1657	rBV	588875	752609	8.69%	4.253%
12	12.061	1795	1800	1807	rBV	734700	885755	10.23%	5.005%

Sum of corrected areas: 17696725

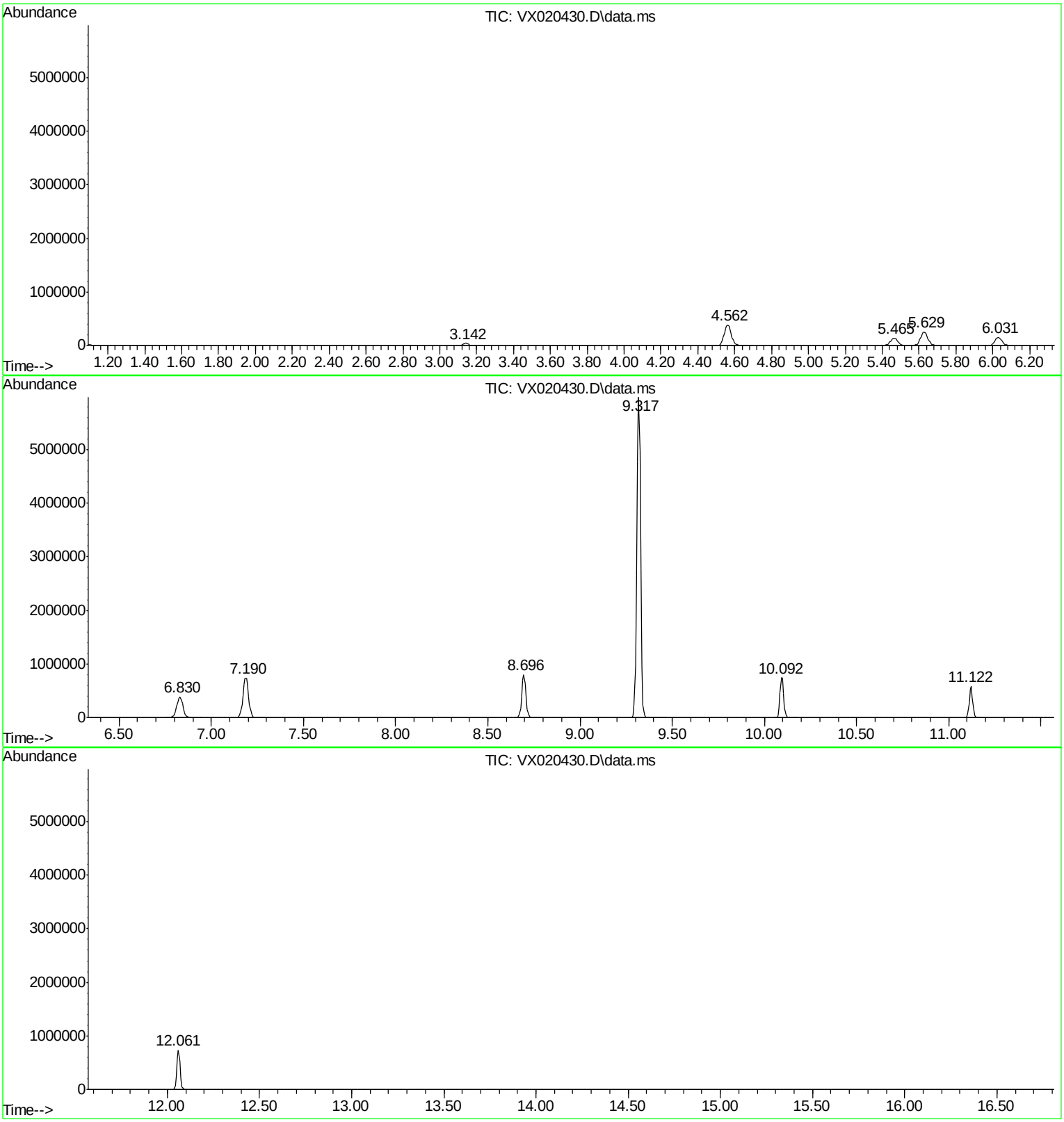
Sample Results: **VX020430.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020430.D
Acq On : 29 Dec 2020 13:35
Operator : JC/MD
Sample : L5236-05
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020430.D
Acq On : 29 Dec 2020 13:35
Operator : JC/MD
Sample : L5236-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020430.D
Acq On : 29 Dec 2020 13:35
Operator : JC/MD
Sample : L5236-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1017-MW-03A(17)DL	SDG No.:	L5236
Lab Sample ID:	L5236-05DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020431.D	5		12/29/20 13:59	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	UD	1.10	5.00	ug/L
74-87-3	Chloromethane	5.00	UD	1.50	5.00	ug/L
75-01-4	Vinyl Chloride	5.00	UD	0.80	5.00	ug/L
74-83-9	Bromomethane	25.0	UD	10.3	25.0	ug/L
75-00-3	Chloroethane	5.00	UD	1.70	5.00	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	0.79	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	UD	1.00	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	UD	0.91	5.00	ug/L
67-64-1	Acetone	25.0	UD	4.50	25.0	ug/L
75-15-0	Carbon Disulfide	5.00	UD	1.20	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	0.35	5.00	ug/L
79-20-9	Methyl Acetate	5.00	UD	3.20	5.00	ug/L
75-09-2	Methylene Chloride	5.00	UD	1.60	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	6.10	D	1.20	5.00	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	0.83	5.00	ug/L
110-82-7	Cyclohexane	25.0	UD	6.00	25.0	ug/L
78-93-3	2-Butanone	25.0	UD	3.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	69.9	D	1.50	5.00	ug/L
74-97-5	Bromochloromethane	5.00	UD	1.60	5.00	ug/L
67-66-3	Chloroform	5.00	UD	0.71	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	0.62	5.00	ug/L
108-87-2	Methylcyclohexane	5.00	UD	0.86	5.00	ug/L
71-43-2	Benzene	5.00	UD	0.49	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	0.65	5.00	ug/L
79-01-6	Trichloroethene	90.5	D	1.30	5.00	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	0.68	5.00	ug/L
75-27-4	Bromodichloromethane	5.00	UD	0.51	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	4.30	25.0	ug/L
108-88-3	Toluene	5.00	UD	0.58	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	5.00	UD	0.96	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	0.78	5.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1017-MW-03A(17)DL	SDG No.:	L5236
Lab Sample ID:	L5236-05DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020431.D	5		12/29/20 13:59	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	5.00	UD	0.61	5.00	ug/L
591-78-6	2-Hexanone	25.0	UD	6.80	25.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	0.78	5.00	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	0.69	5.00	ug/L
127-18-4	Tetrachloroethene	410	D	0.77	5.00	ug/L
108-90-7	Chlorobenzene	5.00	UD	0.38	5.00	ug/L
100-41-4	Ethyl Benzene	5.00	UD	0.41	5.00	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	0.98	10.0	ug/L
95-47-6	o-Xylene	5.00	UD	0.65	5.00	ug/L
100-42-5	Styrene	5.00	UD	0.53	5.00	ug/L
75-25-2	Bromoform	5.00	UD	0.75	5.00	ug/L
98-82-8	Isopropylbenzene	5.00	UD	0.66	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	0.76	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	0.70	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	1.00	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	0.60	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	UD	2.70	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	1.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.00	UD	1.30	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.0		78 - 117	88%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	49.5		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		83 - 123	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	236000	5.623			
540-36-3	1,4-Difluorobenzene	377000	6.83			
3114-55-4	Chlorobenzene-d5	357000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	169000	12.061			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1017-MW-03A(17)DL	SDG No.:	L5236
Lab Sample ID:	L5236-05DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020431.D	5		12/29/20 13:59	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020431.D
Acq On : 29 Dec 2020 13:59
Operator : JC/MD
Sample : L5236-05DL 5X
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

Quant Time: Dec 30 02:36:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

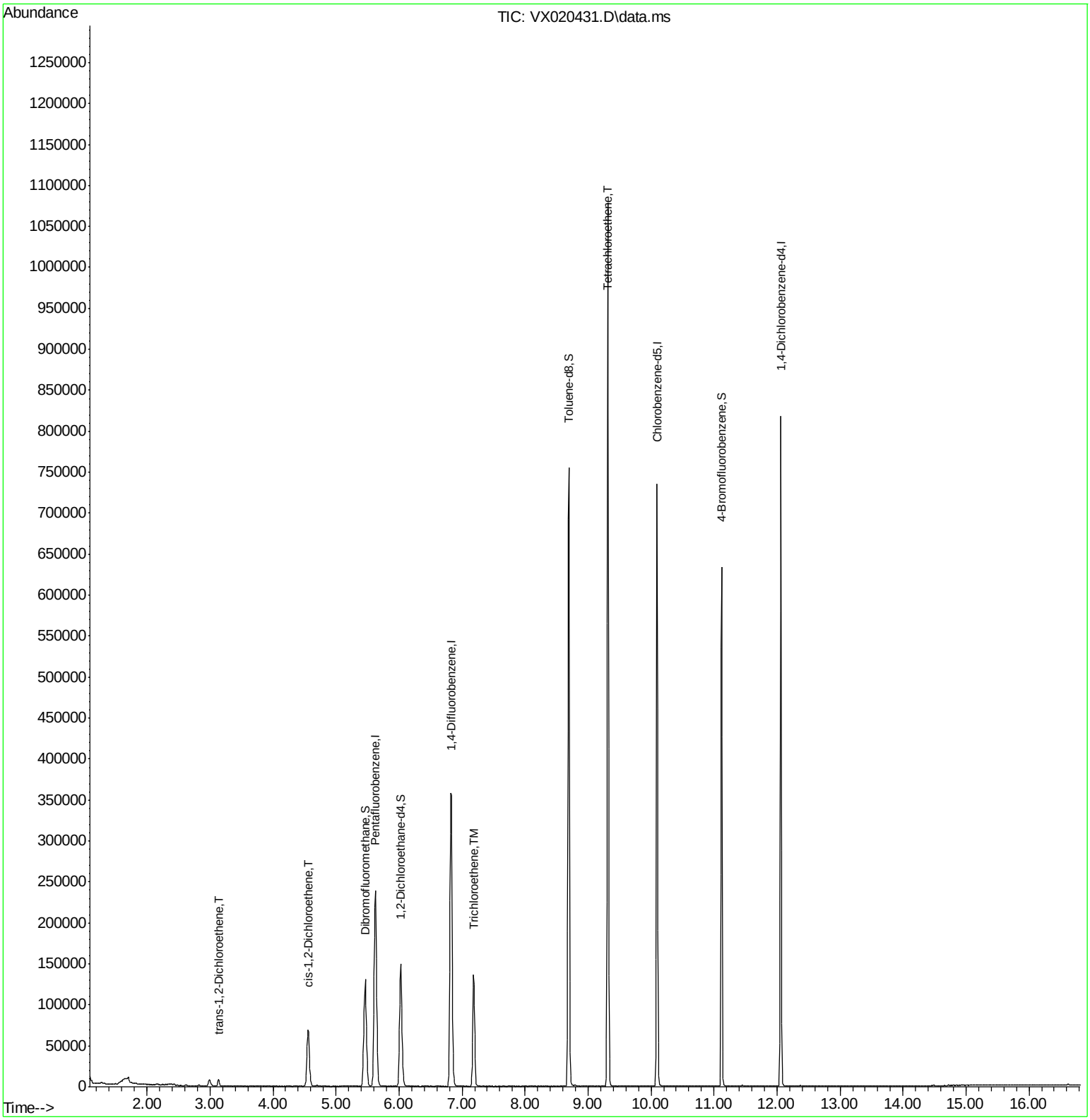
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	235838	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.830	114	377441	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	356816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	168614	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	139171	44.02	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 88.04%			
35) Dibromofluoromethane	5.464	113	116418	48.22	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.44%			
50) Toluene-d8	8.696	98	460178	49.51	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 99.02%			
62) 4-Bromofluorobenzene	11.122	95	176509	49.62	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 99.24%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	3.136	96	3558	1.22	ug/l	98
27) cis-1,2-Dichloroethene	4.562	96	46075	13.97	ug/l	90
44) Trichloroethene	7.184	130	54310	18.09	ug/l	98
64) Tetrachloroethene	9.317	164	219869	81.78	ug/l	97

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

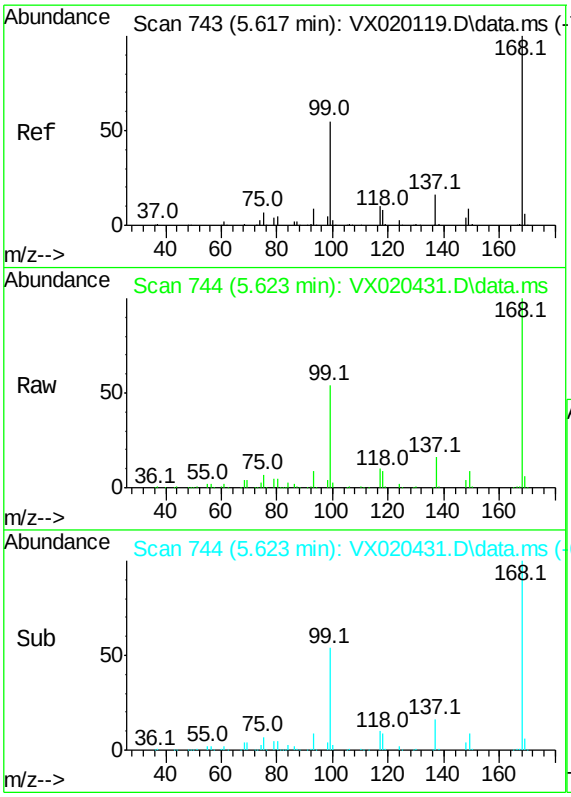
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020431.D
Acq On : 29 Dec 2020 13:59
Operator : JC/MD
Sample : L5236-05DL 5X
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

Quant Time: Dec 30 02:36:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



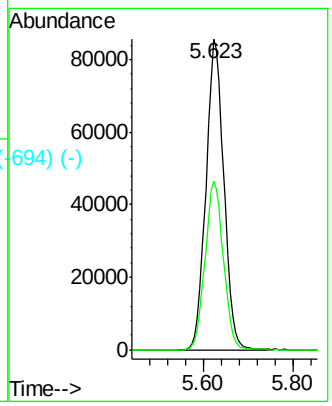
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

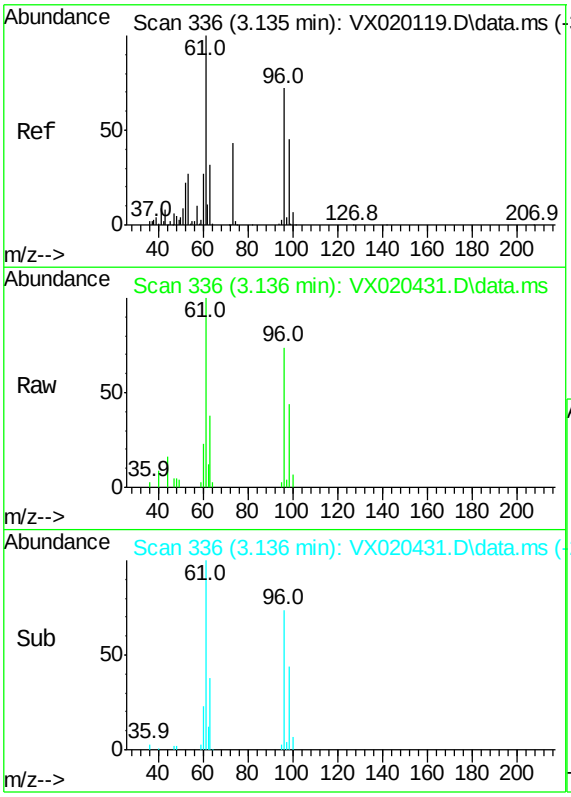


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 744
Delta R.T. 0.006 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion:168 Resp: 235838

Ion	Ratio	Lower	Upper
168	100		
99	54.3	45.8	68.6

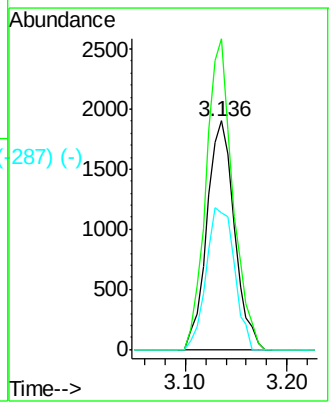




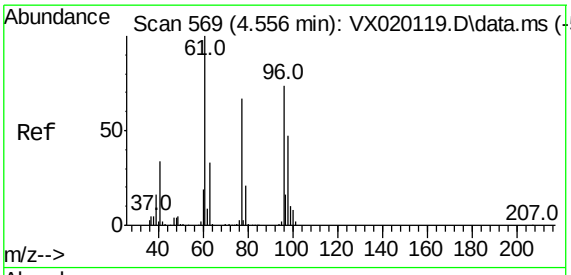
#21
trans-1,2-Dichloroethene
Concen: 1.22 ug/l
RT: 3.136 min Scan# 336
Delta R.T. 0.001 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion: 96 Resp: 3558

Ion	Ratio	Lower	Upper
96	100		
61	135.8	107.7	161.5
98	59.8	50.4	75.6



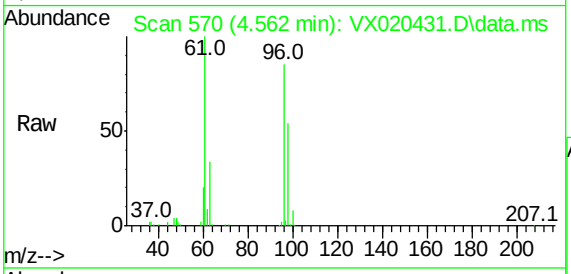
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

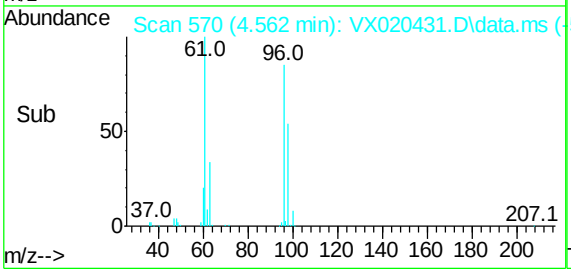


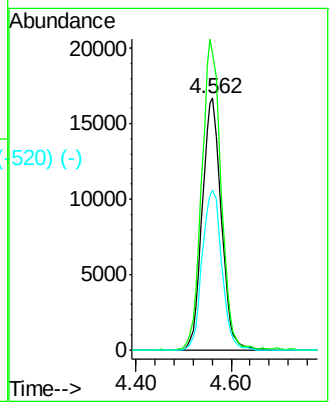
#27 (-)
cis-1,2-Dichloroethene
Concen: 13.97 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

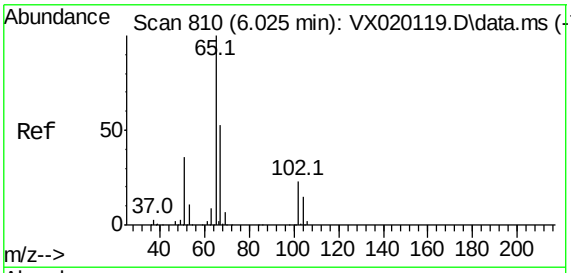
Tgt Ion: 96 Resp: 46075

Ion	Ratio	Lower	Upper
96	100		
61	125.0	0.0	285.6
98	65.0	0.0	129.6





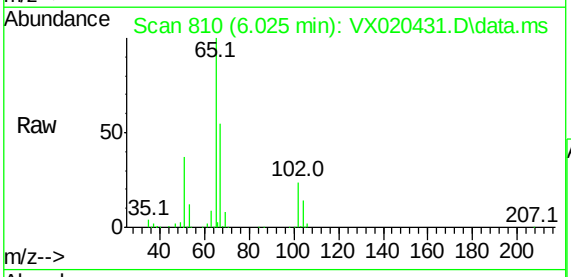


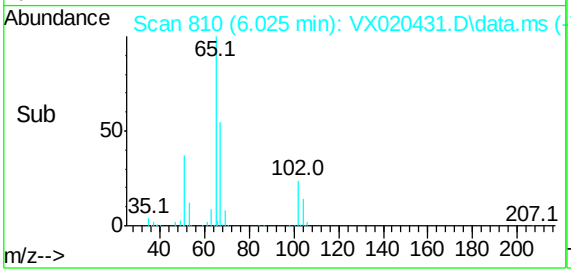


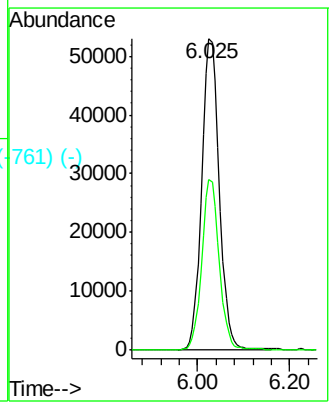
#33 (-)
1,2-Dichloroethane-d4
Concen: 44.02 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion: 65 Resp: 139171

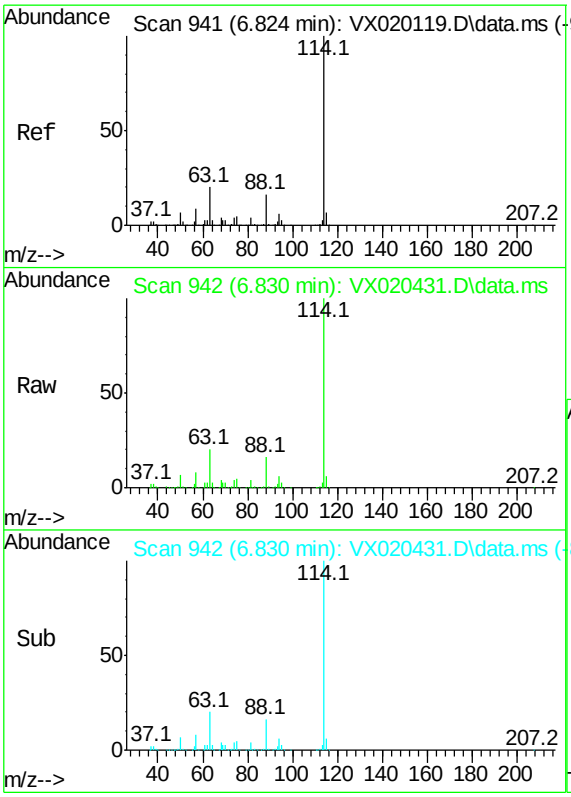
Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	105.4







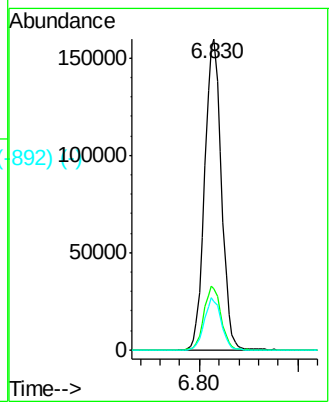
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

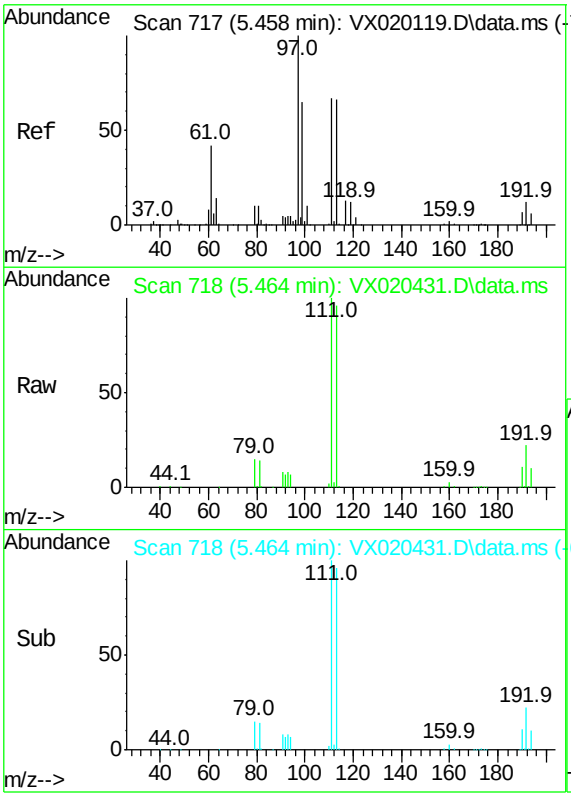


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion:114 Resp: 377441

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.8
88	15.5	0.0	32.8

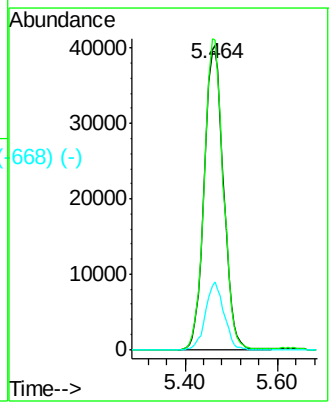




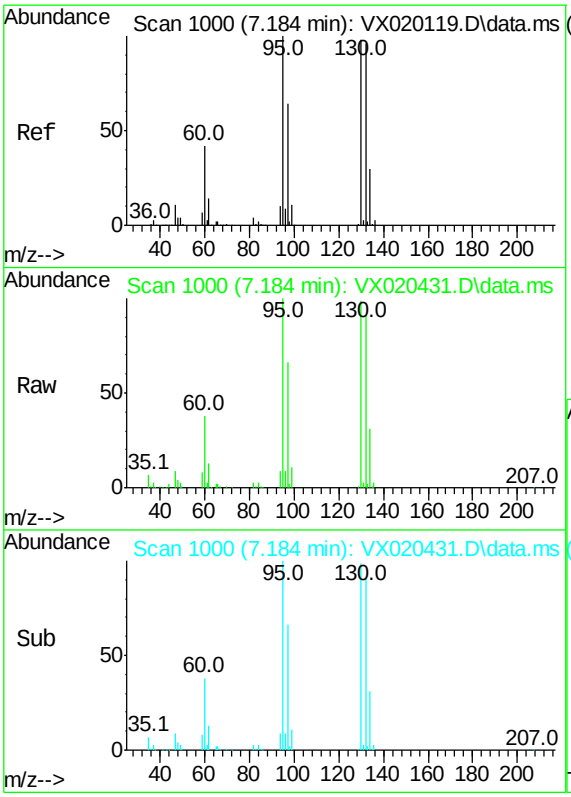
#35
Dibromofluoromethane
Concen: 48.22 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion:113 Resp: 116418

Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.9	122.9
192	21.1	16.7	25.1



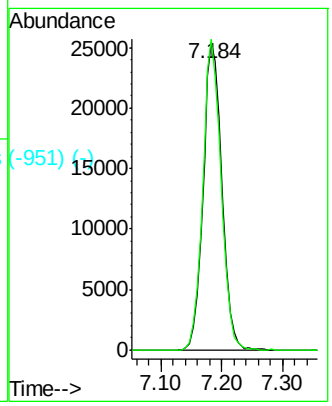
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

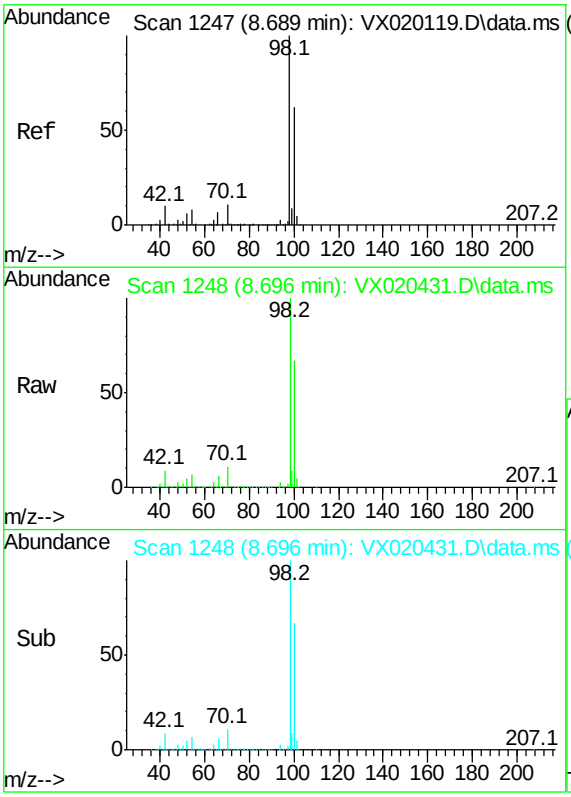


#44
Trichloroethene
Concen: 18.09 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion:130 Resp: 54310

Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	198.0

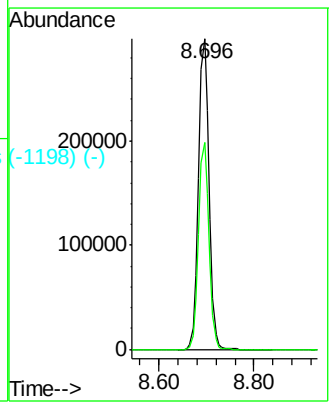




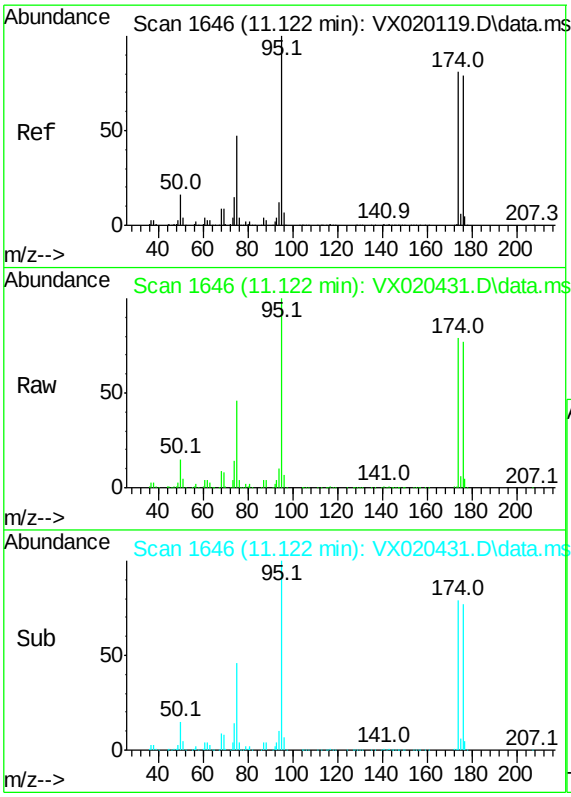
#50
Toluene-d8
Concen: 49.51 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion: 98 Resp: 460178

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.9	77.9



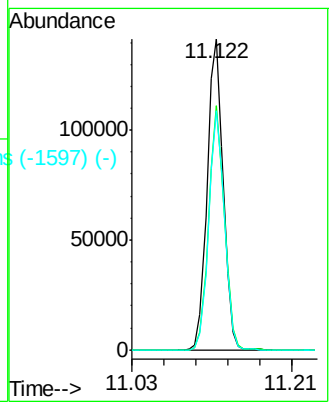
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

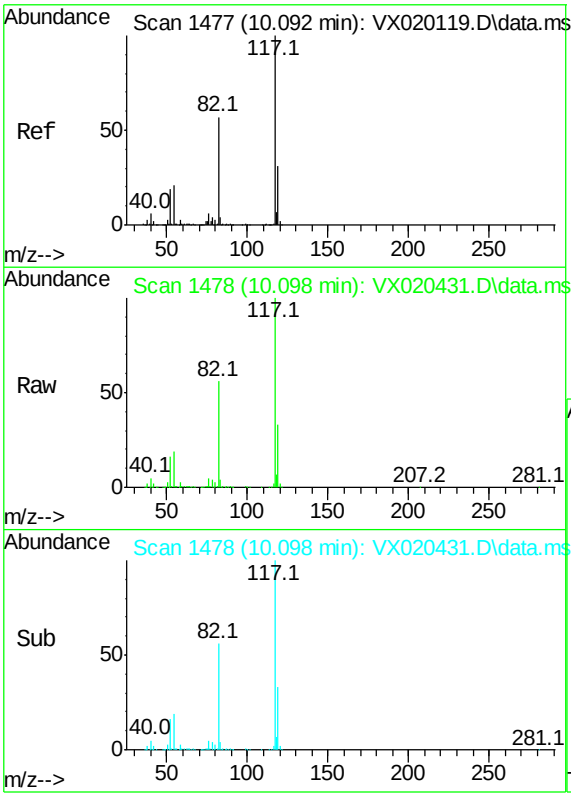


#62
4-Bromofluorobenzene
Concen: 49.62 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion: 95 Resp: 176509

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	154.6
176	75.5	0.0	155.8

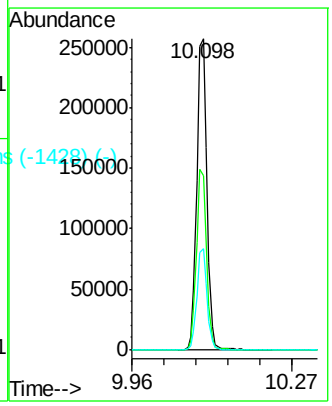




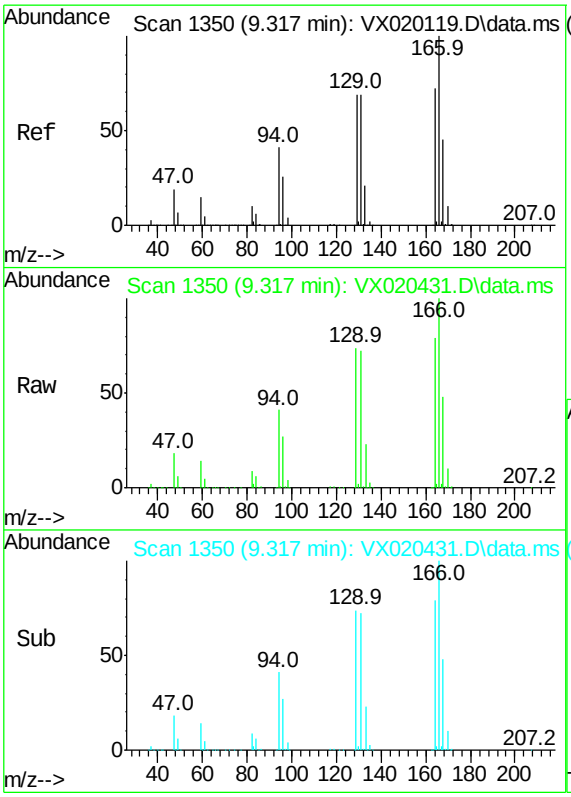
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion:117 Resp: 356816

Ion	Ratio	Lower	Upper
117	100		
82	55.8	47.4	71.2
119	32.5	26.6	39.8



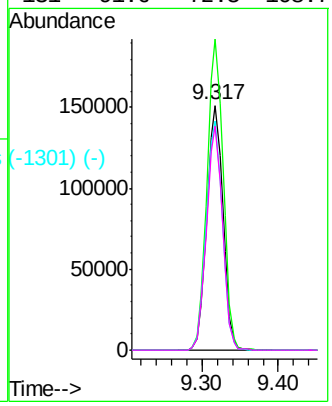
Instrument :
MSVOA_X
ClientSampleId :
1017-MW-03A(17)DL

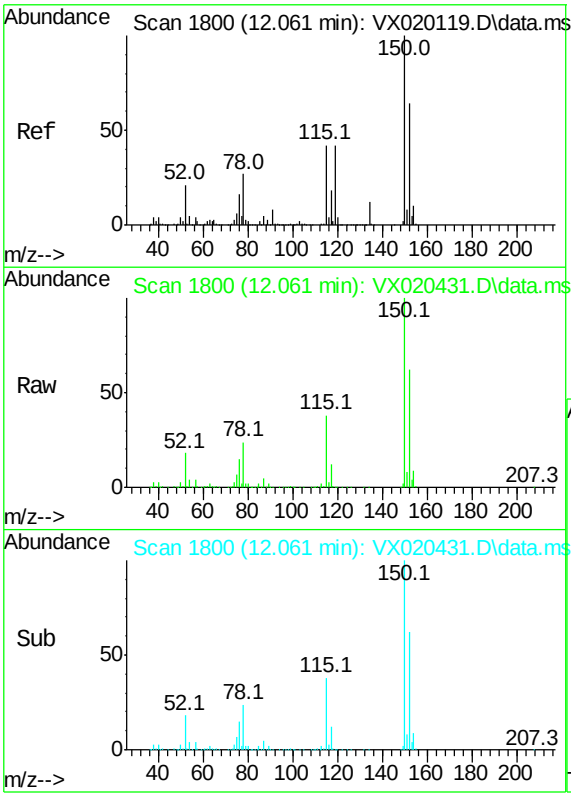


#64
Tetrachloroethene
Concen: 81.78 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion:164 Resp: 219869

Ion	Ratio	Lower	Upper
164	100		
166	127.0	103.4	155.2
129	93.5	70.8	106.2
131	91.6	72.5	108.7

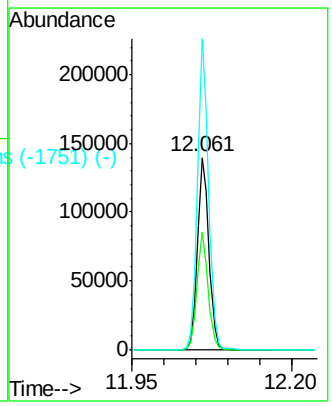




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020431.D
Acq: 29 Dec 2020 13:59

Tgt Ion:152 Resp: 168614

Ion	Ratio	Lower	Upper
152	100		
115	59.7	41.1	123.3
150	157.3	0.0	349.0



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1018-MW-05(17)	SDG No.:	L5236
Lab Sample ID:	L5236-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020435.D	1		12/29/20 15:32	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	3.80	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	0.68	J	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1018-MW-05(17)	SDG No.:	L5236
Lab Sample ID:	L5236-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020435.D	1		12/29/20 15:32	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	32.1		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.9		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.1		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		83 - 123	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	241000	5.629			
540-36-3	1,4-Difluorobenzene	391000	6.83			
3114-55-4	Chlorobenzene-d5	359000	10.097			
3855-82-1	1,4-Dichlorobenzene-d4	151000	12.06			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1018-MW-05(17)	SDG No.:	L5236
Lab Sample ID:	L5236-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020435.D	1		12/29/20 15:32	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020435.D
Acq On : 29 Dec 2020 15:32
Operator : JC/MD
Sample : L5236-06
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

Quant Time: Dec 30 02:37:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

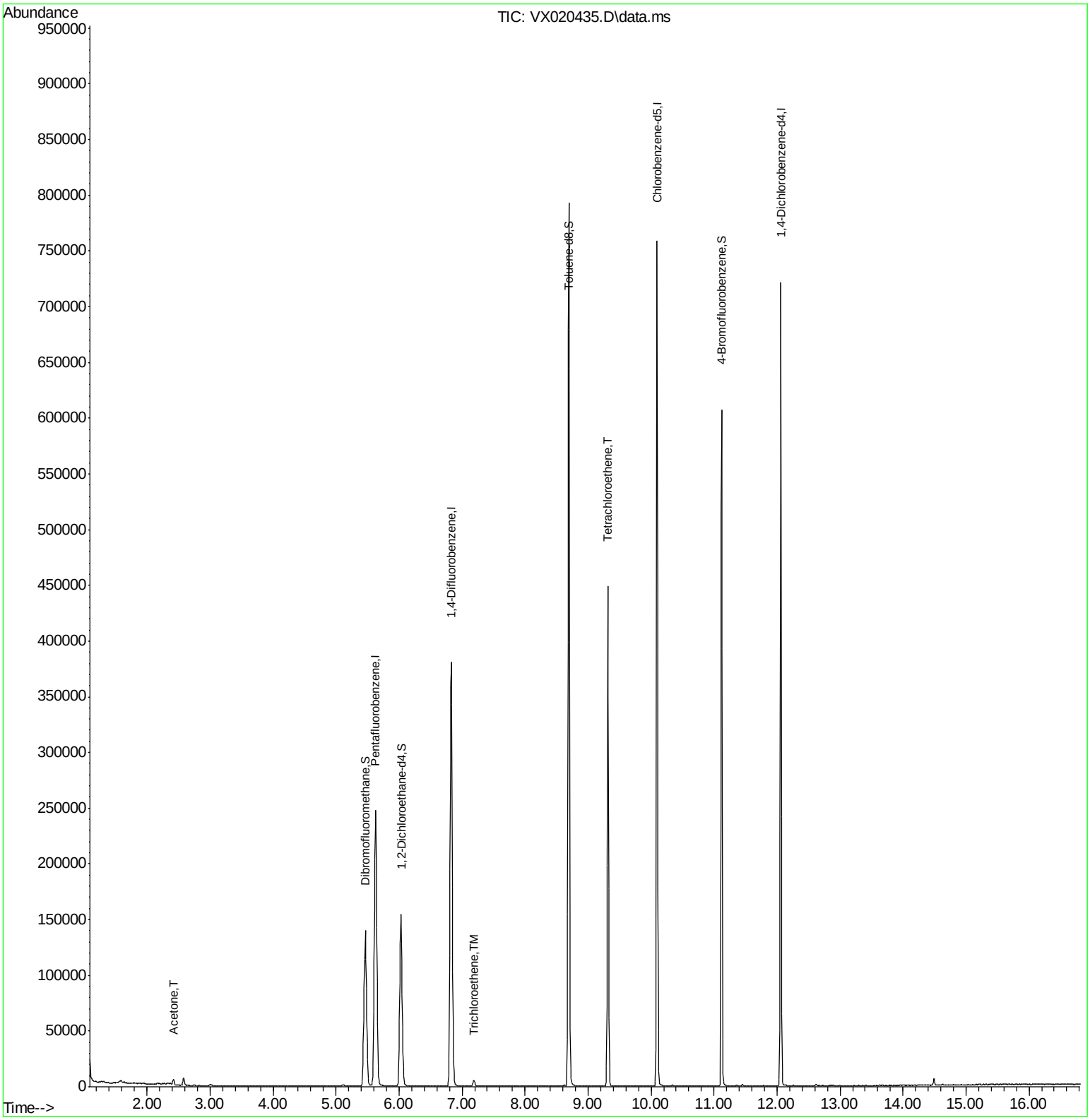
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	241113	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	391085	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.097	117	359497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.060	152	151292	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	145189	44.92	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 89.84%			
35) Dibromofluoromethane	5.464	113	124716	49.85	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.70%			
50) Toluene-d8	8.695	98	473260	49.14	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.28%			
62) 4-Bromofluorobenzene	11.122	95	166325	45.13	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 90.26%			
Target Compounds						Qvalue
16) Acetone	2.416	43	5607	3.80	ug/l	96
44) Trichloroethene	7.189	130	2108	0.68	ug/l	91
64) Tetrachloroethene	9.317	164	87035	32.13	ug/l	97

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

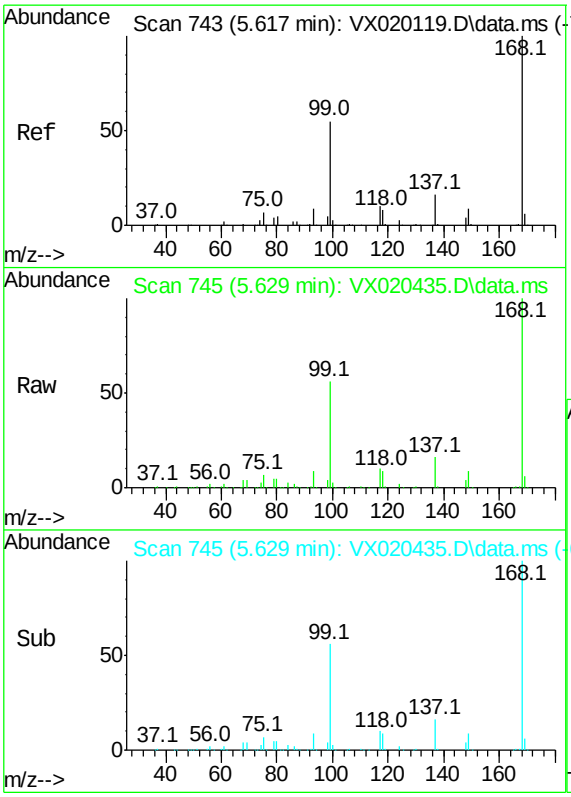
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020435.D
Acq On : 29 Dec 2020 15:32
Operator : JC/MD
Sample : L5236-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

Quant Time: Dec 30 02:37:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



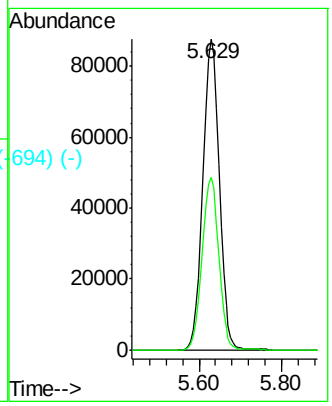
Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

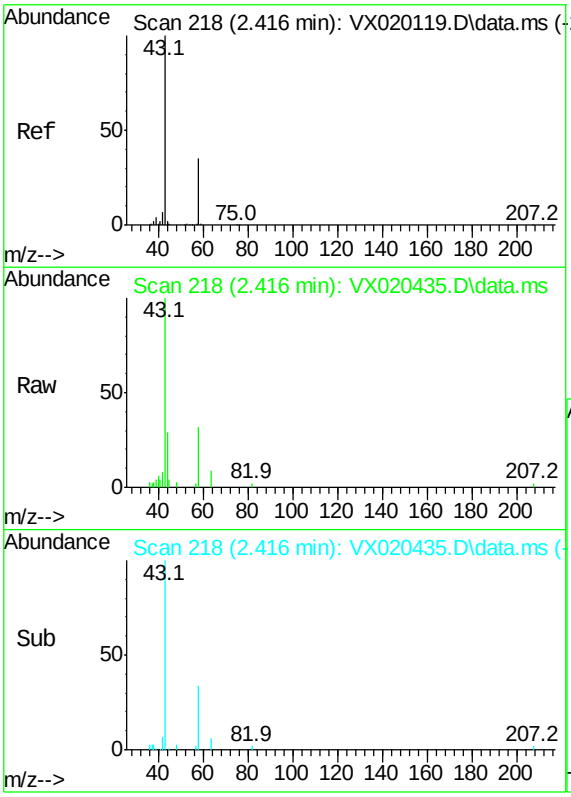


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion:168 Resp: 241113

Ion	Ratio	Lower	Upper
168	100		
99	55.7	45.8	68.6

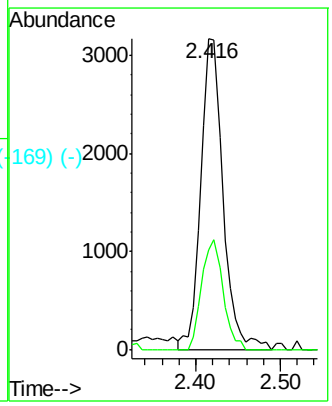




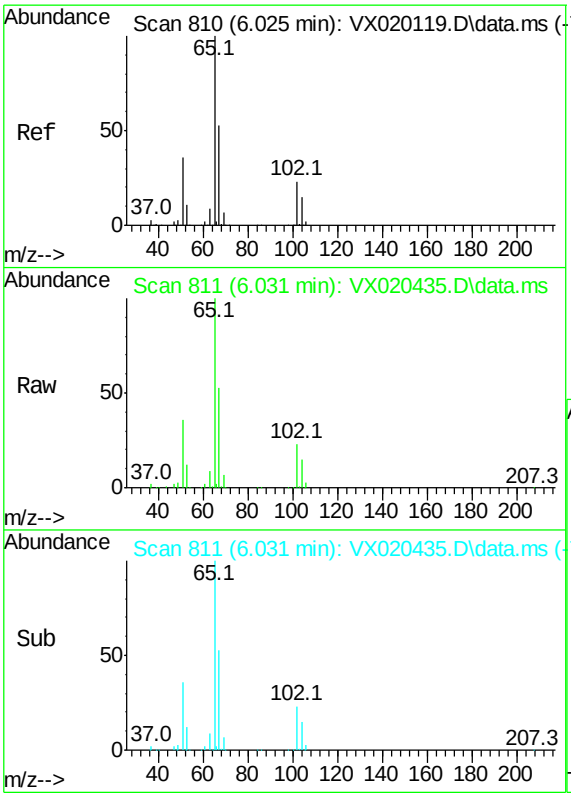
#16
Acetone
Concen: 3.80 ug/l
RT: 2.416 min Scan# 218
Delta R.T. -0.000 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion: 43 Resp: 5607

Ion	Ratio	Lower	Upper
43	100		
58	32.2	27.8	41.8



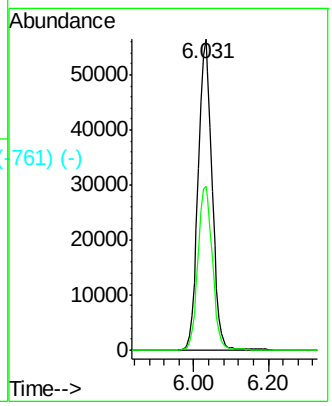
Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

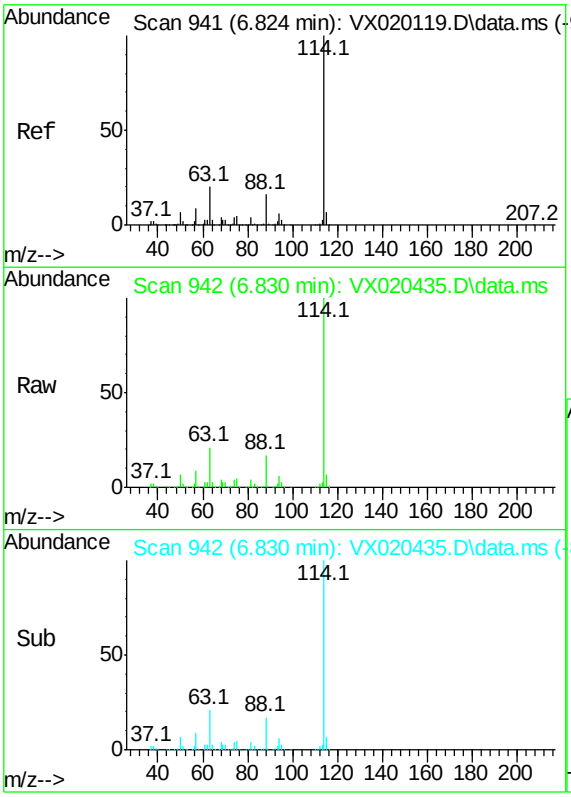


#33
1,2-Dichloroethane-d4
Concen: 44.92 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion: 65 Resp: 145189

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.4

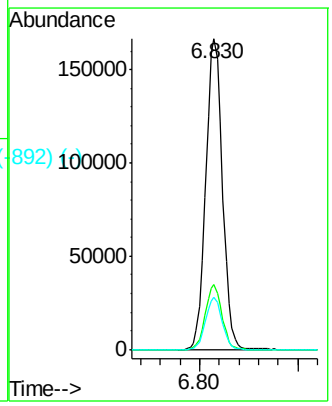




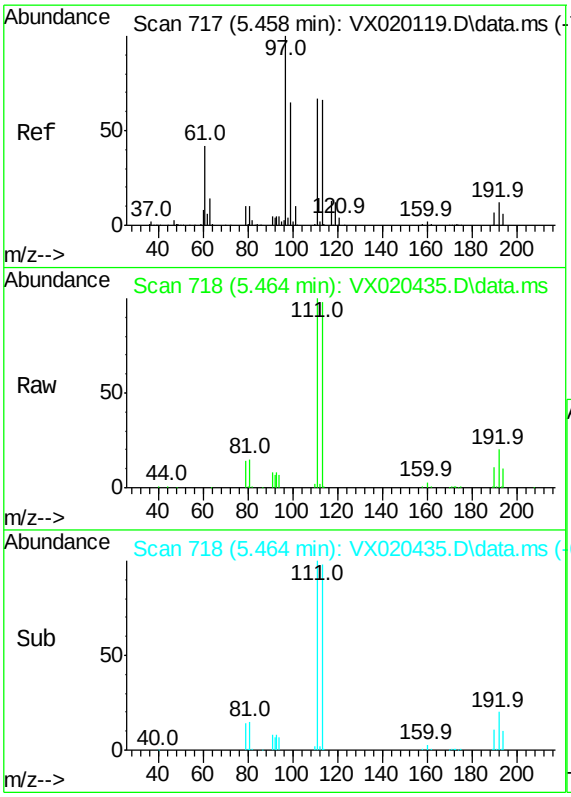
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion:114 Resp: 391085

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.8
88	16.9	0.0	32.8



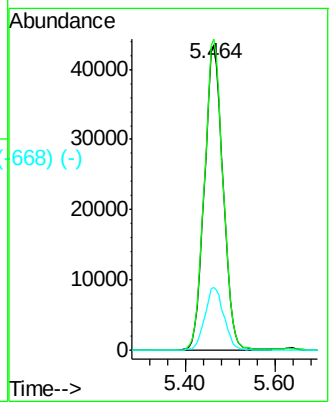
Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

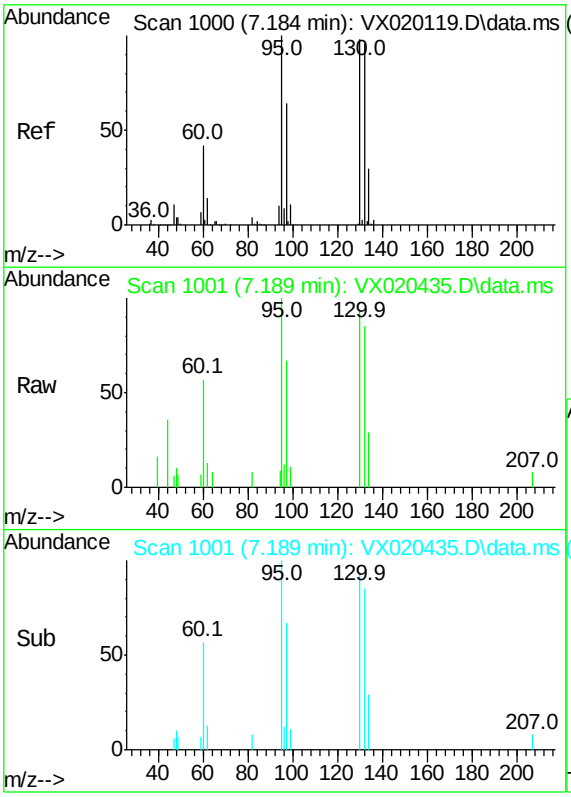


#35
Dibromofluoromethane
Concen: 49.85 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion:113 Resp: 124716

Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.9	122.9
192	20.9	16.7	25.1

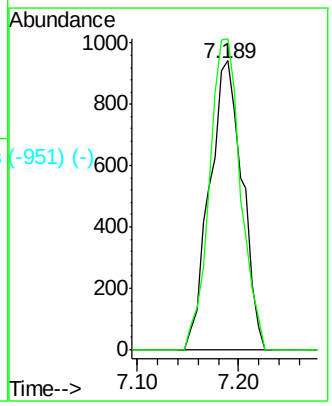




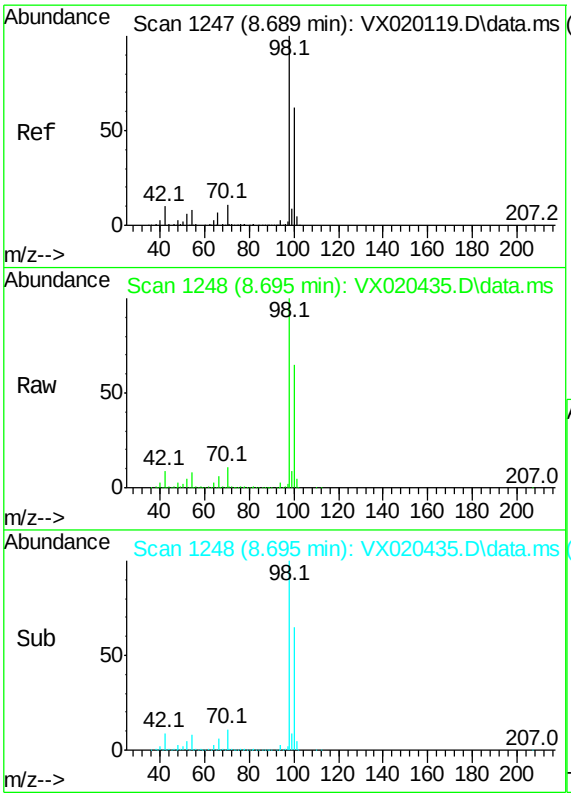
#44
Trichloroethene
Concen: 0.68 ug/l
RT: 7.189 min Scan# 1001
Delta R.T. 0.005 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion:130 Resp: 2108

Ion	Ratio	Lower	Upper
130	100		
95	107.5	0.0	198.0



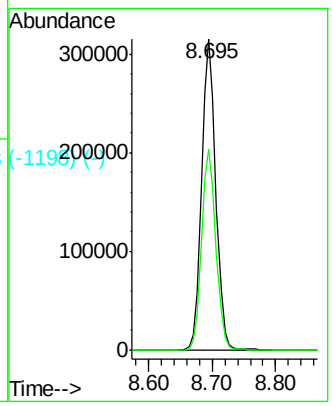
Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

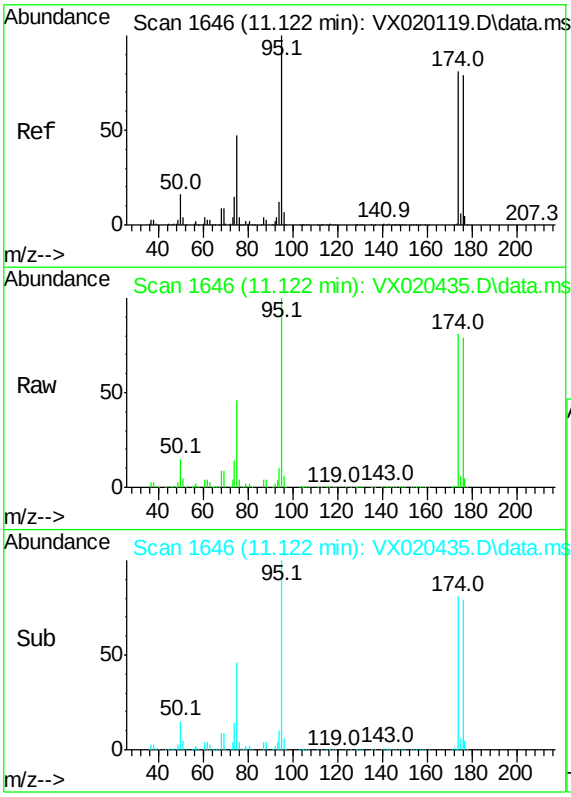


#50
Toluene-d8
Concen: 49.14 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion: 98 Resp: 473260

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.9	77.9

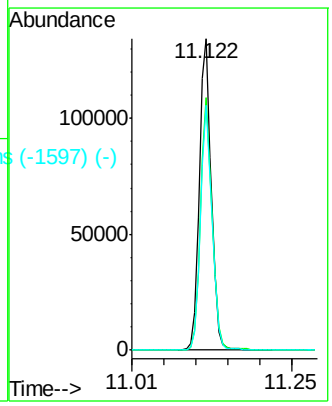




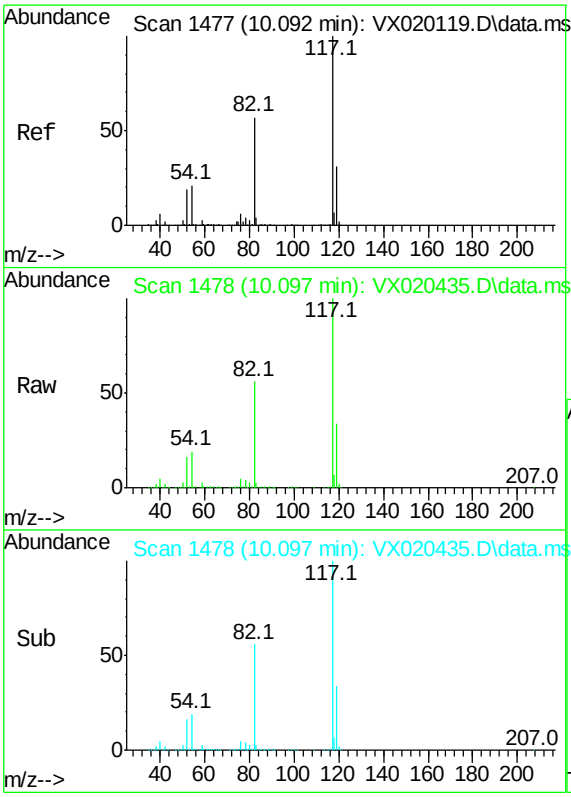
#68
4-Bromofluorobenzene
Concen: 45.13 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion: 95 Resp: 166325

Ion	Ratio	Lower	Upper
95	100		
174	78.5	0.0	154.6
176	76.6	0.0	155.8



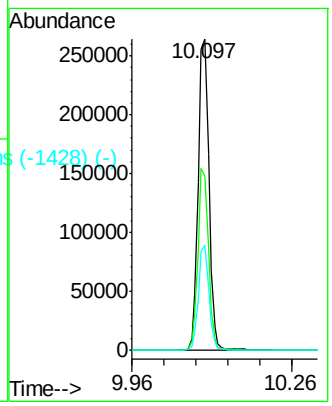
Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

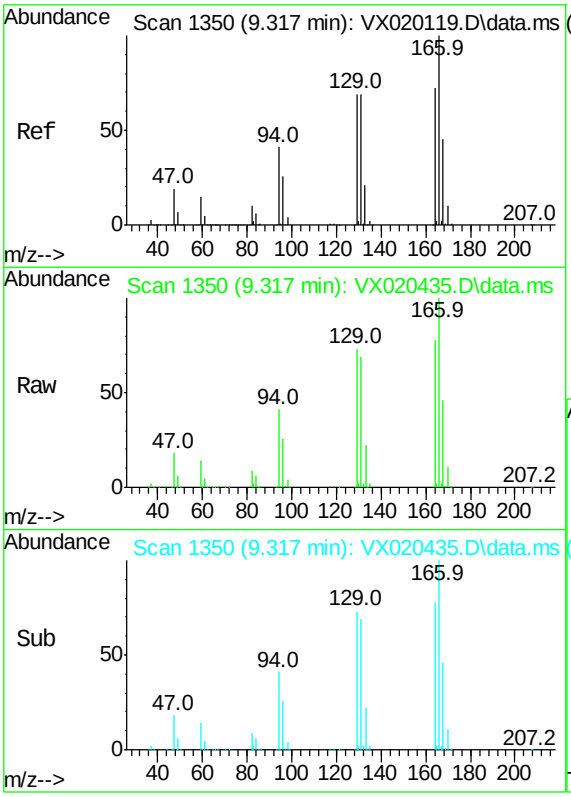


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.097 min Scan# 1478
Delta R.T. 0.005 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion:117 Resp: 359497

Ion	Ratio	Lower	Upper
117	100		
82	55.9	47.4	71.2
119	33.8	26.6	39.8

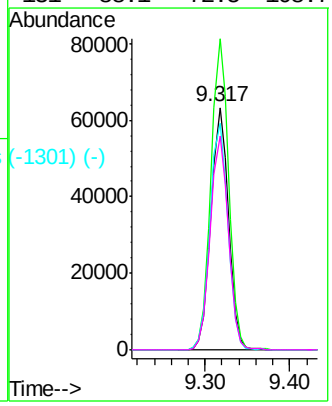




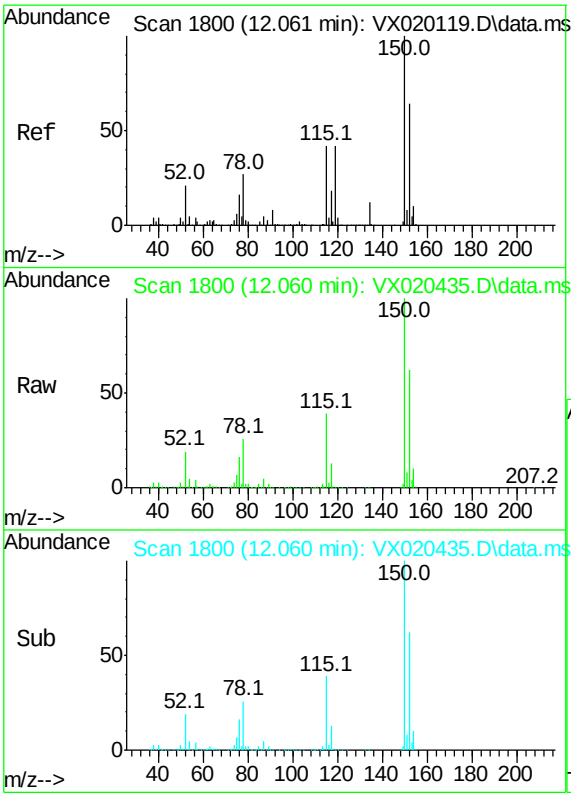
#64
Tetrachloroethene
Concen: 32.13 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion:164 Resp: 87035

Ion	Ratio	Lower	Upper
164	100		
166	128.3	103.4	155.2
129	93.6	70.8	106.2
131	88.1	72.5	108.7



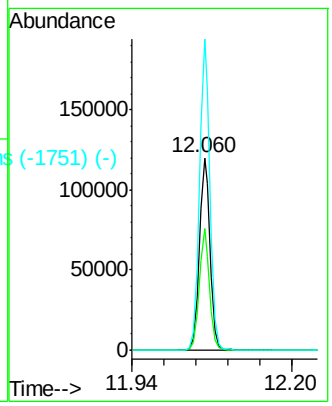
Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.060 min Scan# 1800
Delta R.T. -0.001 min
Lab File: VX020435.D
Acq: 29 Dec 2020 15:32

Tgt Ion:152 Resp: 151292

Ion	Ratio	Lower	Upper
152	100		
115	60.3	41.1	123.3
150	158.5	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020435.D
Acq On : 29 Dec 2020 15:32
Operator : JC/MD
Sample : L5236-06
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020435.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.580	236	245	254	rBV	7240	14896	1.22%	0.215%
2	5.464	706	718	733	rBV	140224	401837	33.04%	5.808%
3	5.629	734	745	761	rVB	247023	683096	56.16%	9.873%
4	6.031	800	811	824	rBV	154780	404660	33.27%	5.849%
5	6.830	932	942	957	rBV	380558	887907	73.00%	12.833%
6	8.695	1241	1248	1263	rBV	792895	1216356	100.00%	17.581%
7	9.317	1343	1350	1360	rBV	448659	631228	51.90%	9.123%
8	10.091	1471	1477	1494	rBV	758239	1036154	85.19%	14.976%
9	11.122	1640	1646	1655	rBV	606957	752352	61.85%	10.874%
10	12.060	1795	1800	1810	rBV	720892	890262	73.19%	12.867%

Sum of corrected areas: 6918748

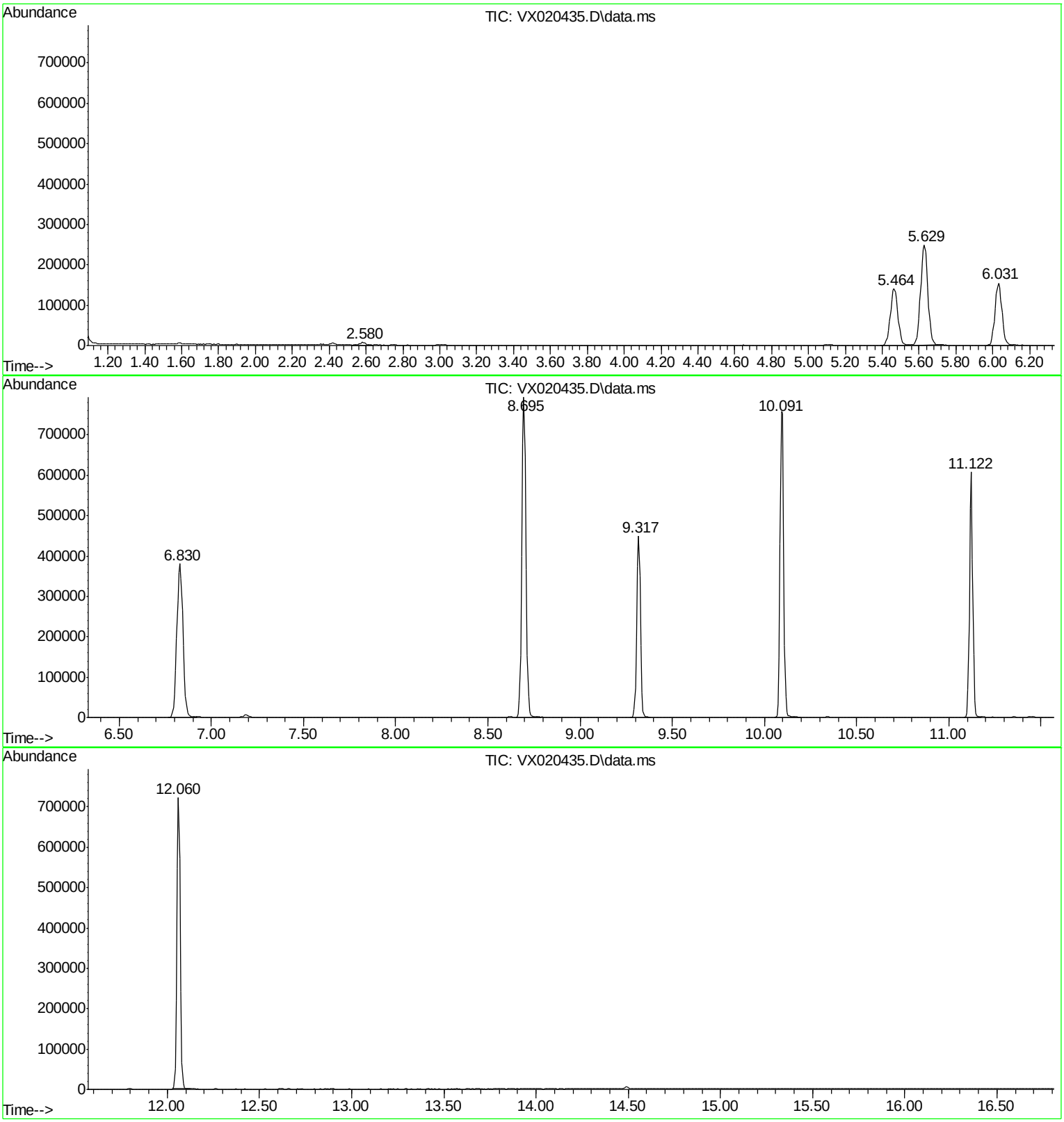
Sample Results: **VX020435.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020435.D
Acq On : 29 Dec 2020 15:32
Operator : JC/MD
Sample : L5236-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020435.D
Acq On : 29 Dec 2020 15:32
Operator : JC/MD
Sample : L5236-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020435.D
Acq On : 29 Dec 2020 15:32
Operator : JC/MD
Sample : L5236-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1018-MW-05(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1019-MW-11(15)	SDG No.:	L5236
Lab Sample ID:	L5236-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020432.D	1		12/29/20 14:22	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	3.60	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.10		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	2.10		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1019-MW-11(15)	SDG No.:	L5236
Lab Sample ID:	L5236-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020432.D	1		12/29/20 14:22	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	22.6		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.5		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	48.4		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		83 - 123	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	246000	5.629			
540-36-3	1,4-Difluorobenzene	398000	6.83			
3114-55-4	Chlorobenzene-d5	361000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	150000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1019-MW-11(15)	SDG No.:	L5236
Lab Sample ID:	L5236-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020432.D	1		12/29/20 14:22	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020432.D
Acq On : 29 Dec 2020 14:22
Operator : JC/MD
Sample : L5236-07
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

Quant Time: Dec 30 02:36:51 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

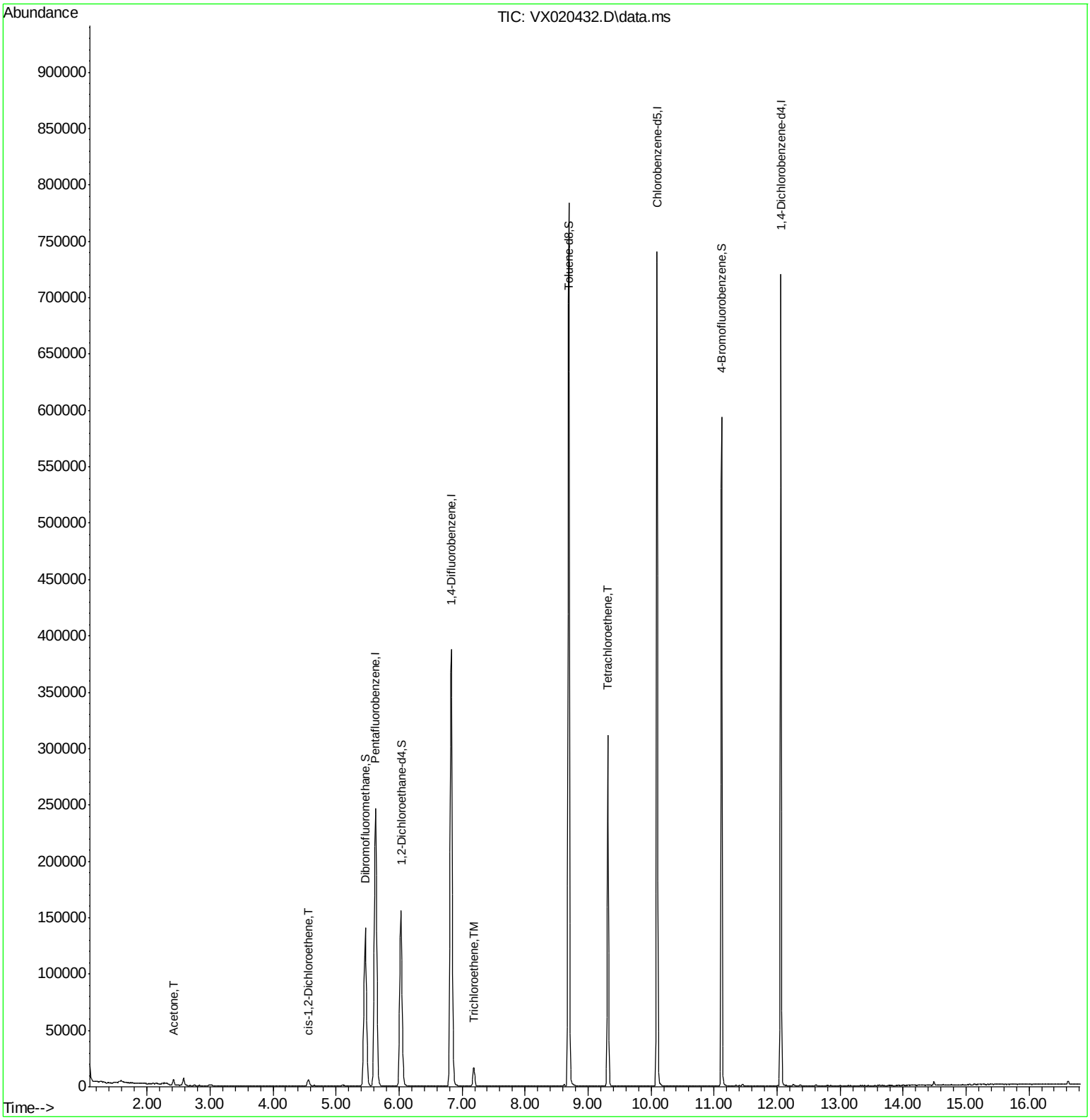
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	245539	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	397659	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	360547	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	149606	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	146385	44.48	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 88.96%			
35) Dibromofluoromethane	5.464	113	122861	48.30	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.60%			
50) Toluene-d8	8.696	98	474241	48.43	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 96.86%			
62) 4-Bromofluorobenzene	11.122	95	167535	44.70	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 89.40%			
Target Compounds						Qvalue
16) Acetone	2.422	43	5411	3.61	ug/l	100
27) cis-1,2-Dichloroethene	4.562	96	3878	1.13	ug/l	89
44) Trichloroethene	7.184	130	6778	2.14	ug/l	93
64) Tetrachloroethene	9.317	164	61317	22.57	ug/l	96

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

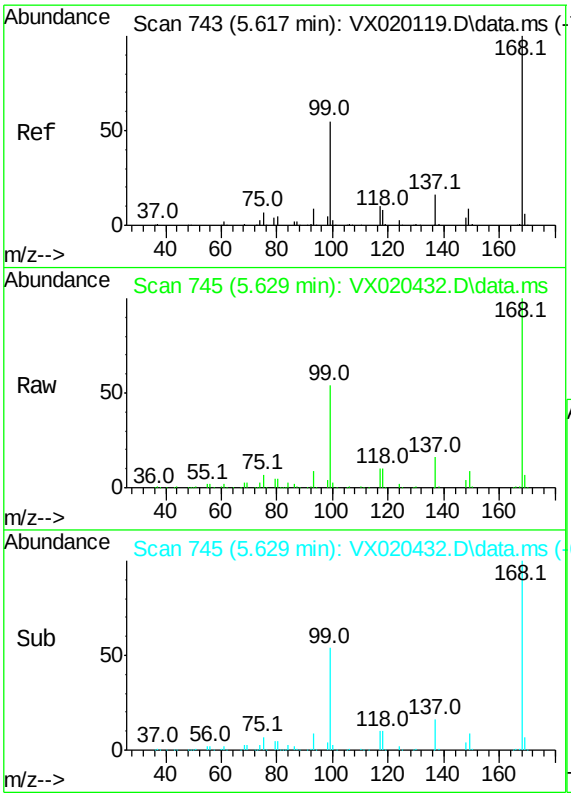
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020432.D
Acq On : 29 Dec 2020 14:22
Operator : JC/MD
Sample : L5236-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

Quant Time: Dec 30 02:36:51 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



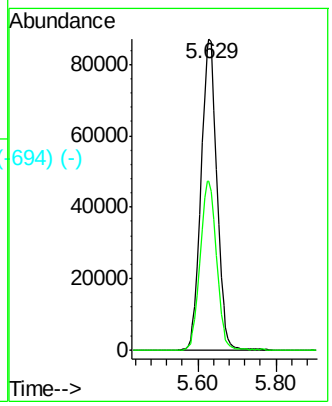
Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

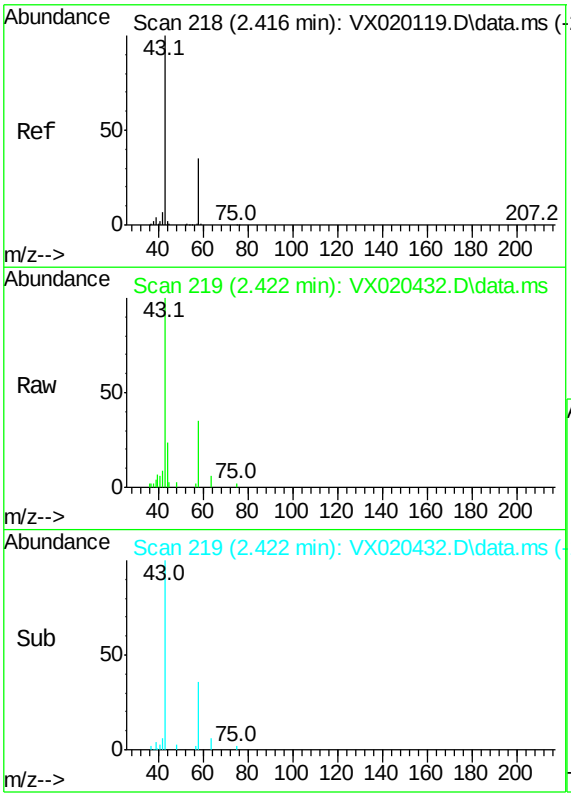


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion:168 Resp: 245539

Ion	Ratio	Lower	Upper
168	100		
99	54.5	45.8	68.6

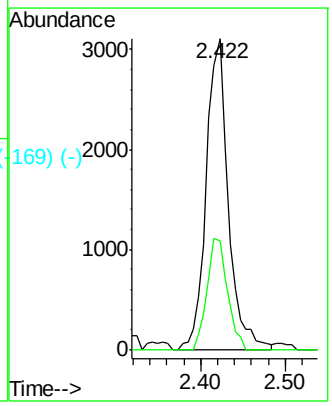




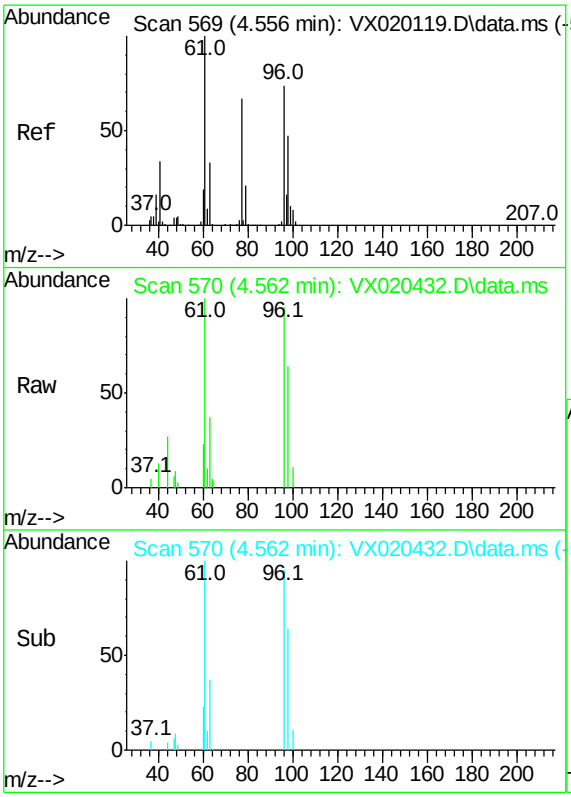
#16
Acetone
Concen: 3.61 ug/l
RT: 2.422 min Scan# 219
Delta R.T. 0.006 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion: 43 Resp: 5411

Ion	Ratio	Lower	Upper
43	100		
58	35.0	27.8	41.8



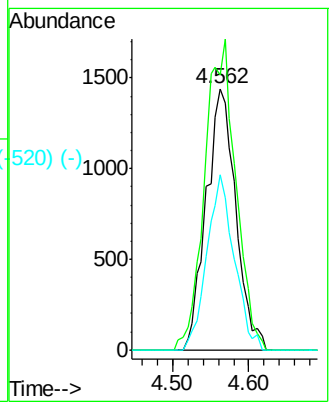
Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

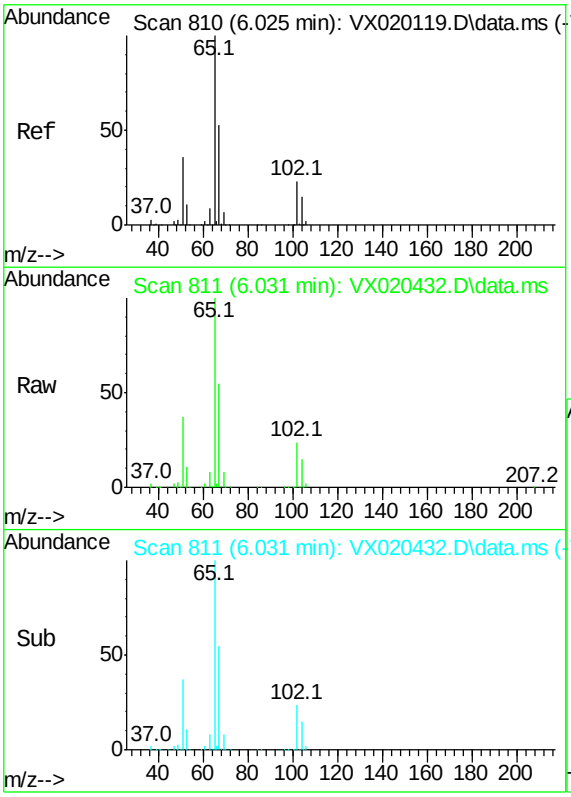


#27 (-)
cis-1,2-Dichloroethene
Concen: 1.13 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion: 96 Resp: 3878

Ion	Ratio	Lower	Upper
96	100		
61	125.0	0.0	285.6
98	61.7	0.0	129.6

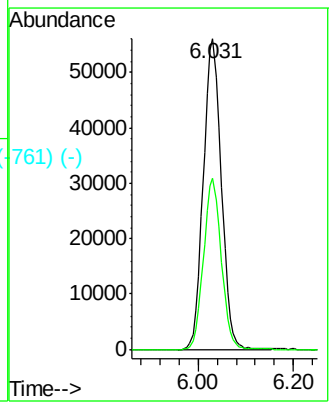




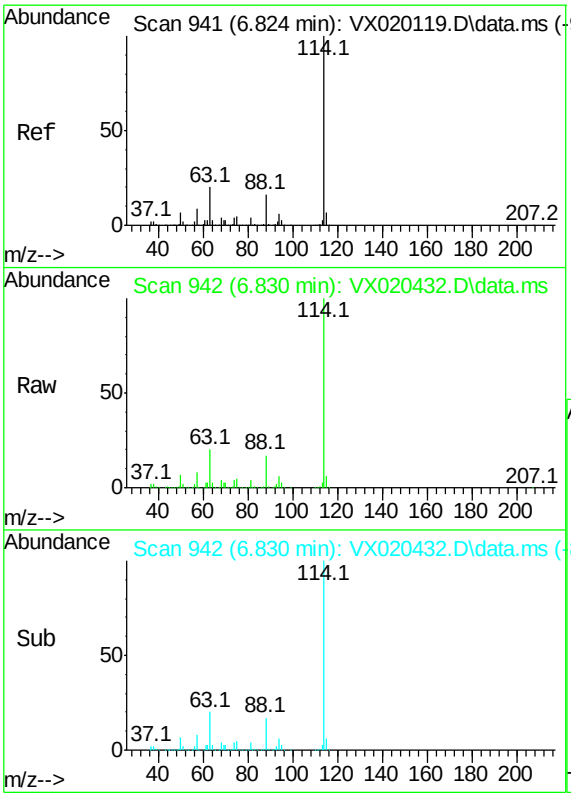
#33 (-)
1,2-Dichloroethane-d4
Concen: 44.48 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion: 65 Resp: 146385

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.4



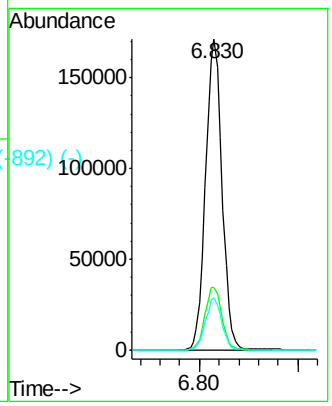
Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

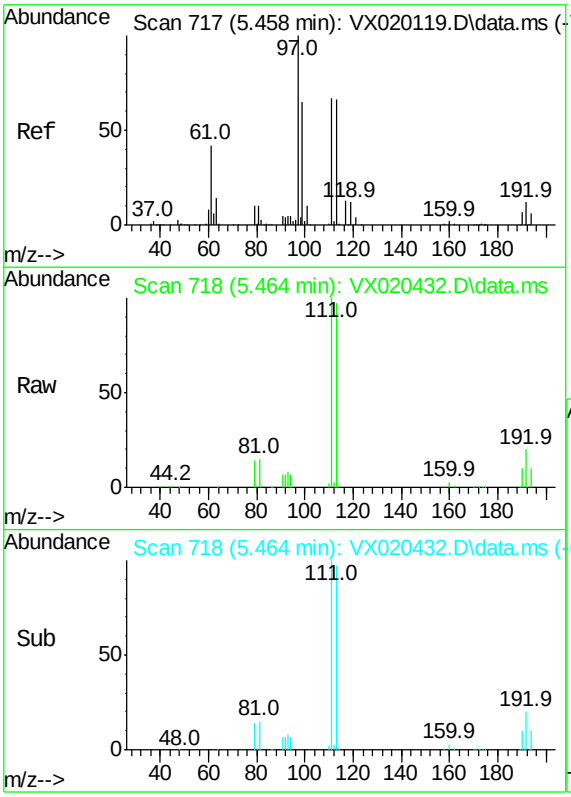


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion:114 Resp: 397659

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	17.0	0.0	32.8

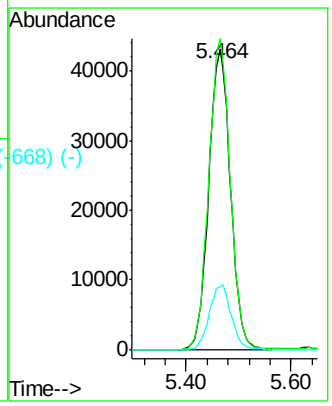




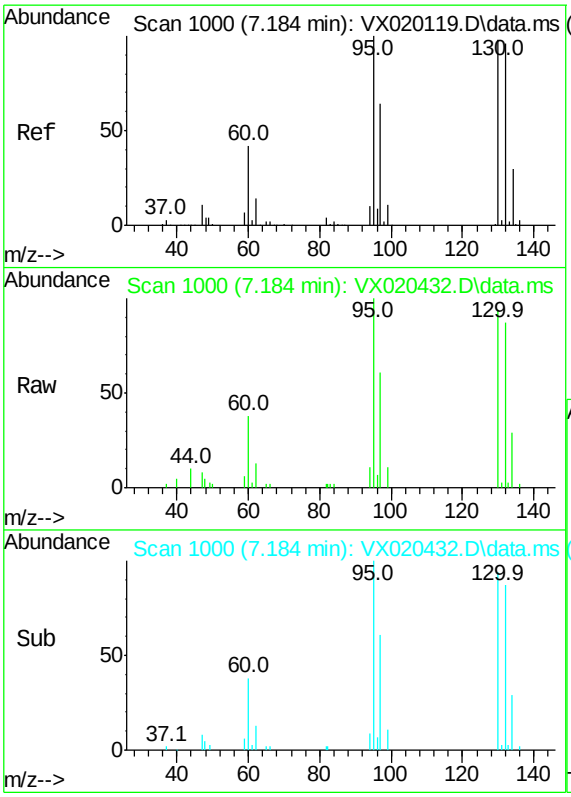
#35
Dibromofluoromethane
Concen: 48.30 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion:113 Resp: 122861

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	21.5	16.7	25.1



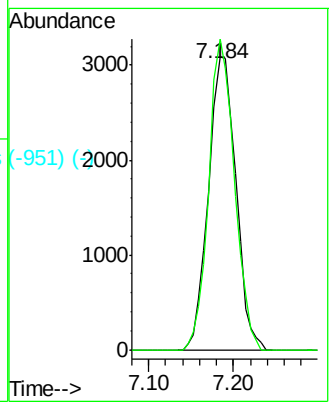
Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

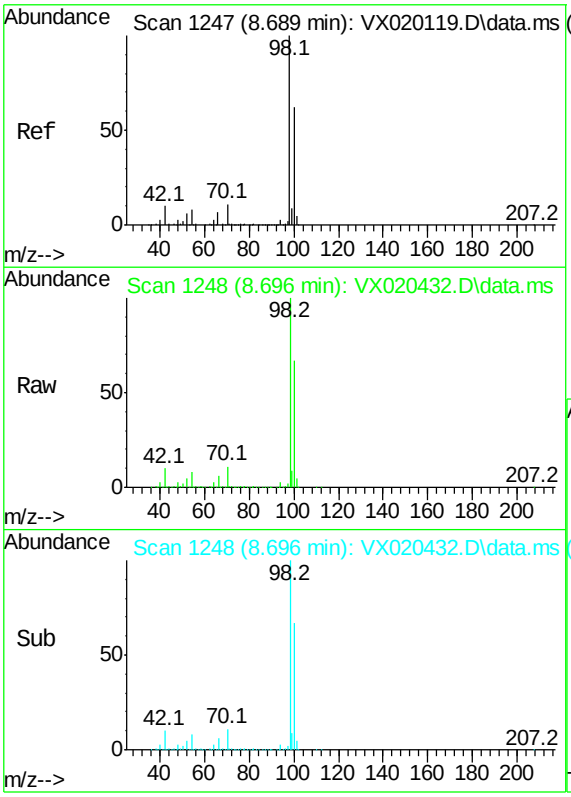


#44
Trichloroethene
Concen: 2.14 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion:130 Resp: 6778

Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	198.0

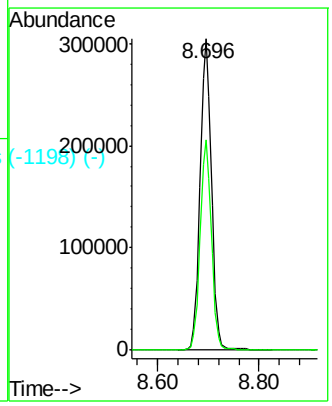




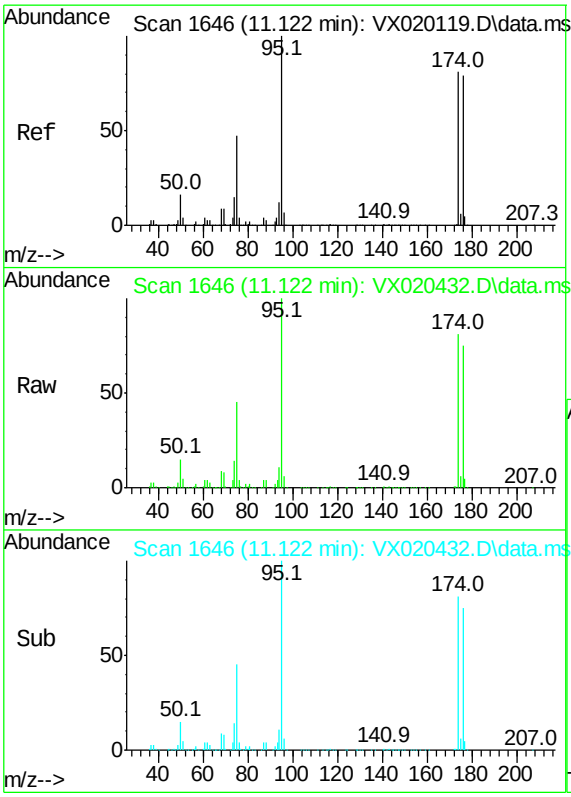
#50
Toluene-d8
Concen: 48.43 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion: 98 Resp: 474241

Ion	Ratio	Lower	Upper
98	100		
100	67.2	51.9	77.9



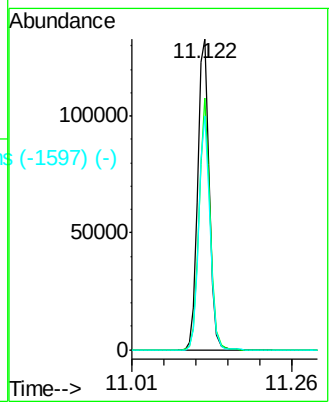
Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

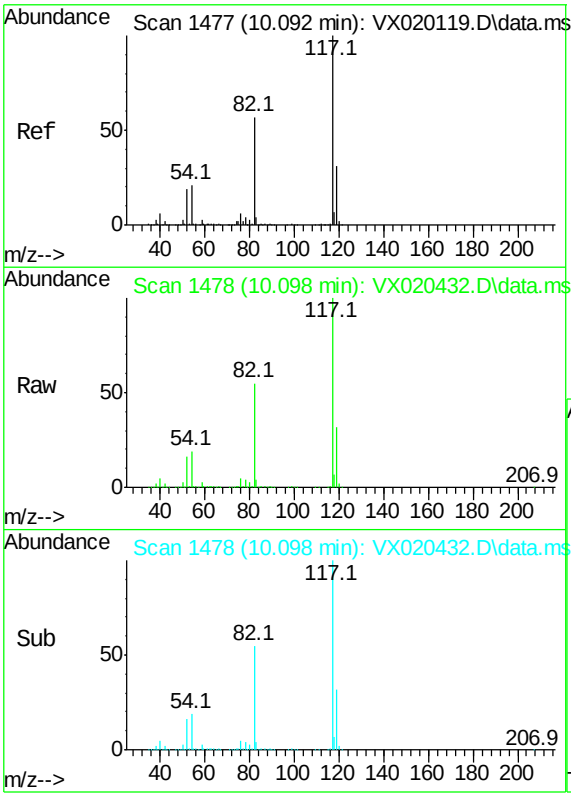


#62
4-Bromofluorobenzene
Concen: 44.70 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion: 95 Resp: 167535

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	154.6
176	73.3	0.0	155.8

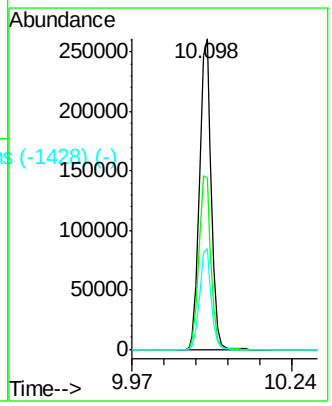




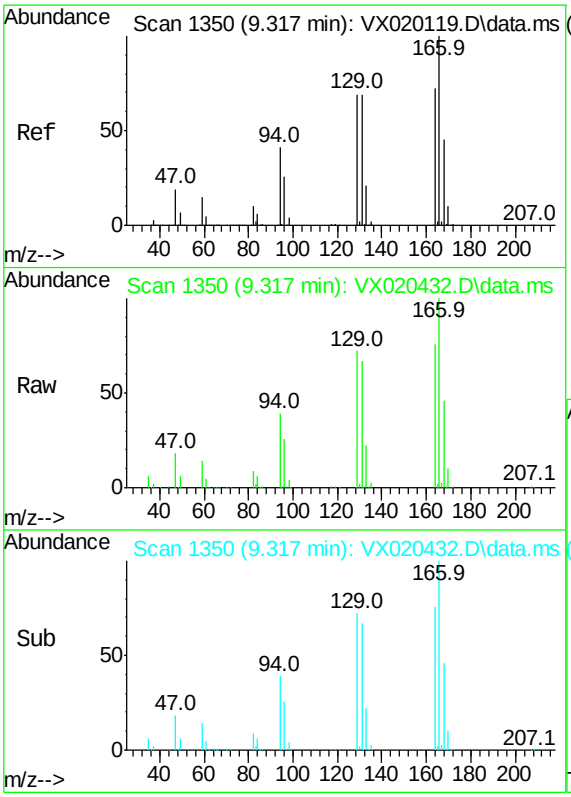
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion:117 Resp: 360547

Ion	Ratio	Lower	Upper
117	100		
82	54.9	47.4	71.2
119	32.2	26.6	39.8



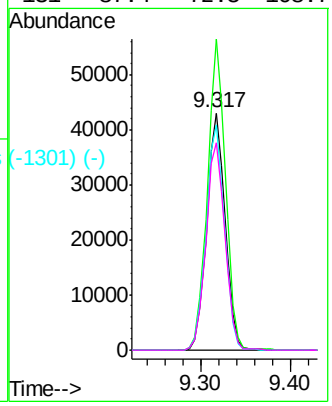
Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

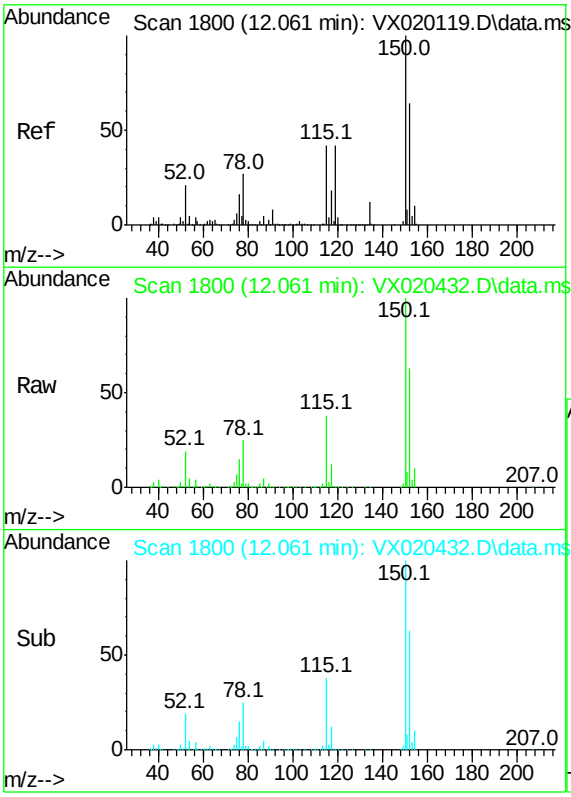


#64
Tetrachloroethene
Concen: 22.57 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion:164 Resp: 61317

Ion	Ratio	Lower	Upper
164	100		
166	131.3	103.4	155.2
129	94.9	70.8	106.2
131	87.4	72.5	108.7

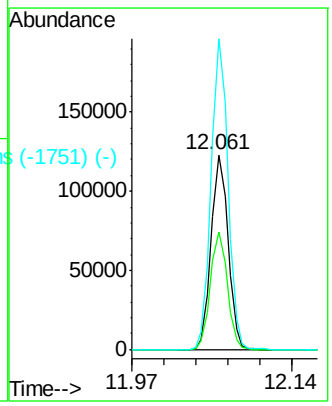




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020432.D
Acq: 29 Dec 2020 14:22

Tgt Ion:152 Resp: 149606

Ion	Ratio	Lower	Upper
152	100		
115	60.3	41.1	123.3
150	158.2	0.0	349.0



Sample Results: **VX020432.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020432.D
Acq On : 29 Dec 2020 14:22
Operator : JC/MD
Sample : L5236-07
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020432.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.562	560	570	579	rBV3	5526	15442	1.26%	0.227%
2	5.464	703	718	732	rBV2	140407	399013	32.48%	5.866%
3	5.629	732	745	760	rBV	246258	696787	56.73%	10.244%
4	6.031	800	811	828	rBV	156035	410209	33.39%	6.031%
5	6.830	931	942	956	rBV	387130	901100	73.36%	13.247%
6	7.184	993	1000	1012	rVB2	16324	35476	2.89%	0.522%
7	8.696	1241	1248	1266	rBV	783618	1228356	100.00%	18.058%
8	9.317	1343	1350	1362	rBV	311611	448922	36.55%	6.600%
9	10.098	1471	1478	1493	rBV	740024	1039738	84.64%	15.285%
10	11.122	1640	1646	1662	rBV	593182	748103	60.90%	10.998%
11	12.061	1794	1800	1810	rBV	719616	879027	71.56%	12.923%

Sum of corrected areas: 6802173

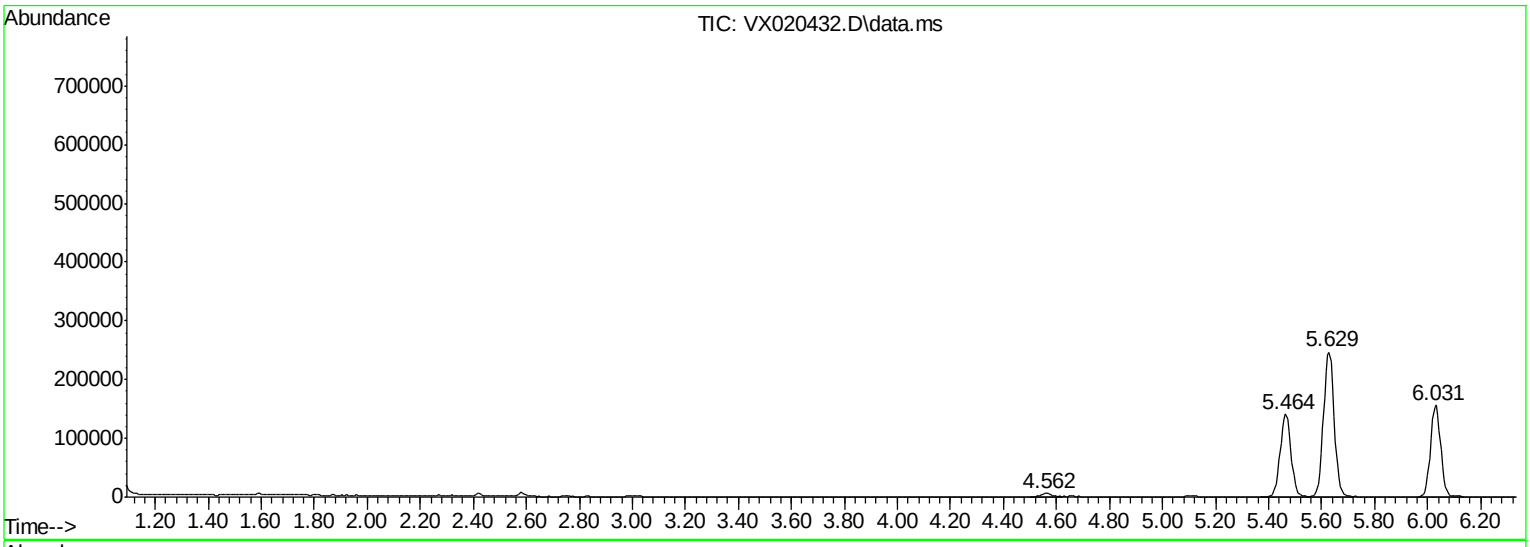
Sample Results: **VX020432.D**

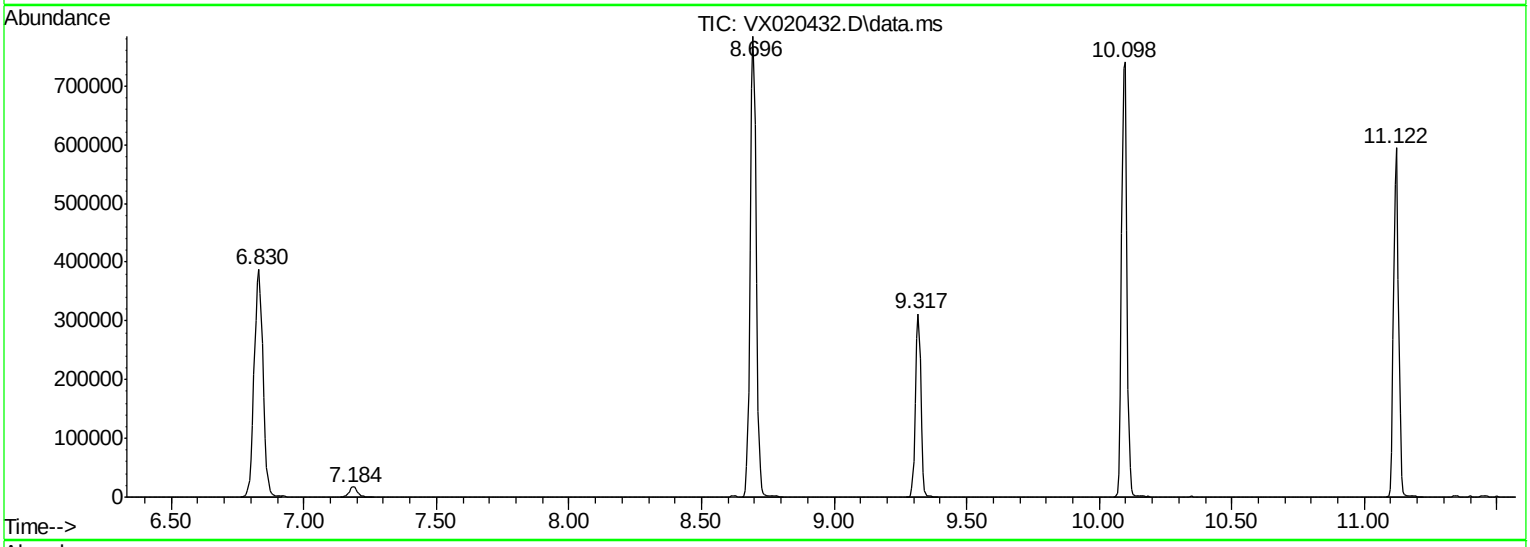
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020432.D
Acq On : 29 Dec 2020 14:22
Operator : JC/MD
Sample : L5236-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

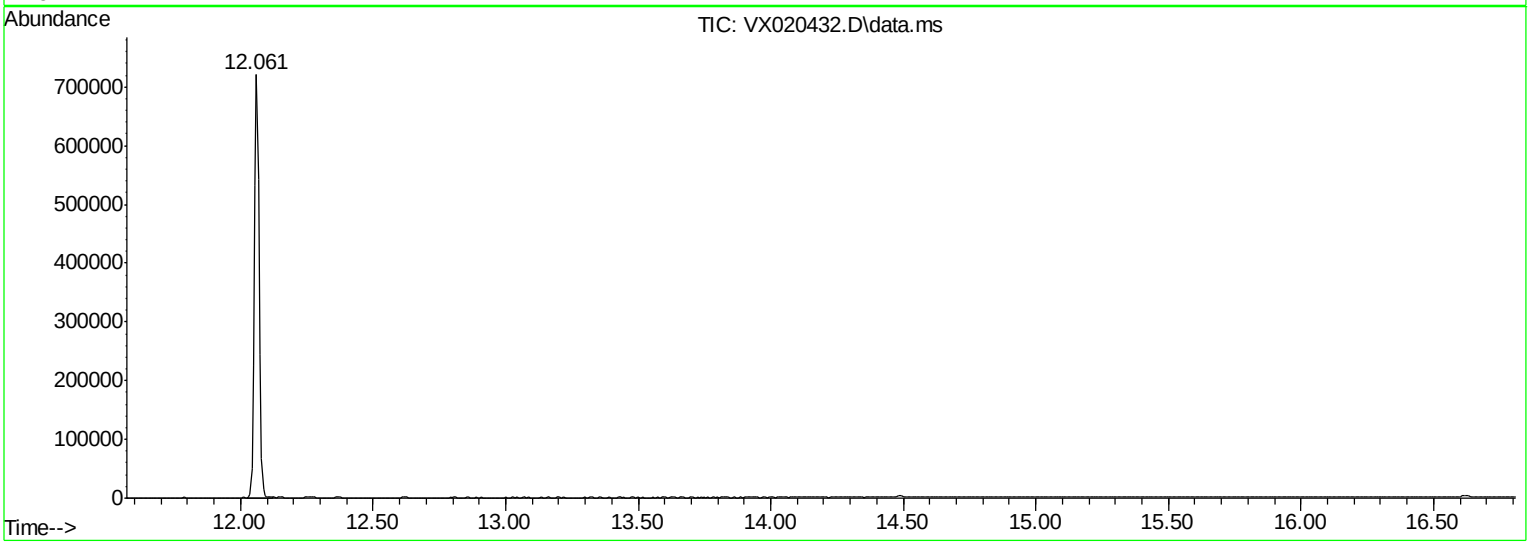
Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020432.D
Acq On : 29 Dec 2020 14:22
Operator : JC/MD
Sample : L5236-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020432.D
Acq On : 29 Dec 2020 14:22
Operator : JC/MD
Sample : L5236-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1019-MW-11(15)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1020-MW-15(17)	SDG No.:	L5236
Lab Sample ID:	L5236-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020436.D	1		12/29/20 15:56	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.00	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	0.40	J	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1020-MW-15(17)	SDG No.:	L5236
Lab Sample ID:	L5236-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020436.D	1		12/29/20 15:56	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.1		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		83 - 123	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	233000	5.629			
540-36-3	1,4-Difluorobenzene	379000	6.83			
3114-55-4	Chlorobenzene-d5	348000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	143000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1020-MW-15(17)	SDG No.:	L5236
Lab Sample ID:	L5236-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020436.D	1		12/29/20 15:56	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020436.D
Acq On : 29 Dec 2020 15:56
Operator : JC/MD
Sample : L5236-08
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

Quant Time: Dec 30 02:37:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

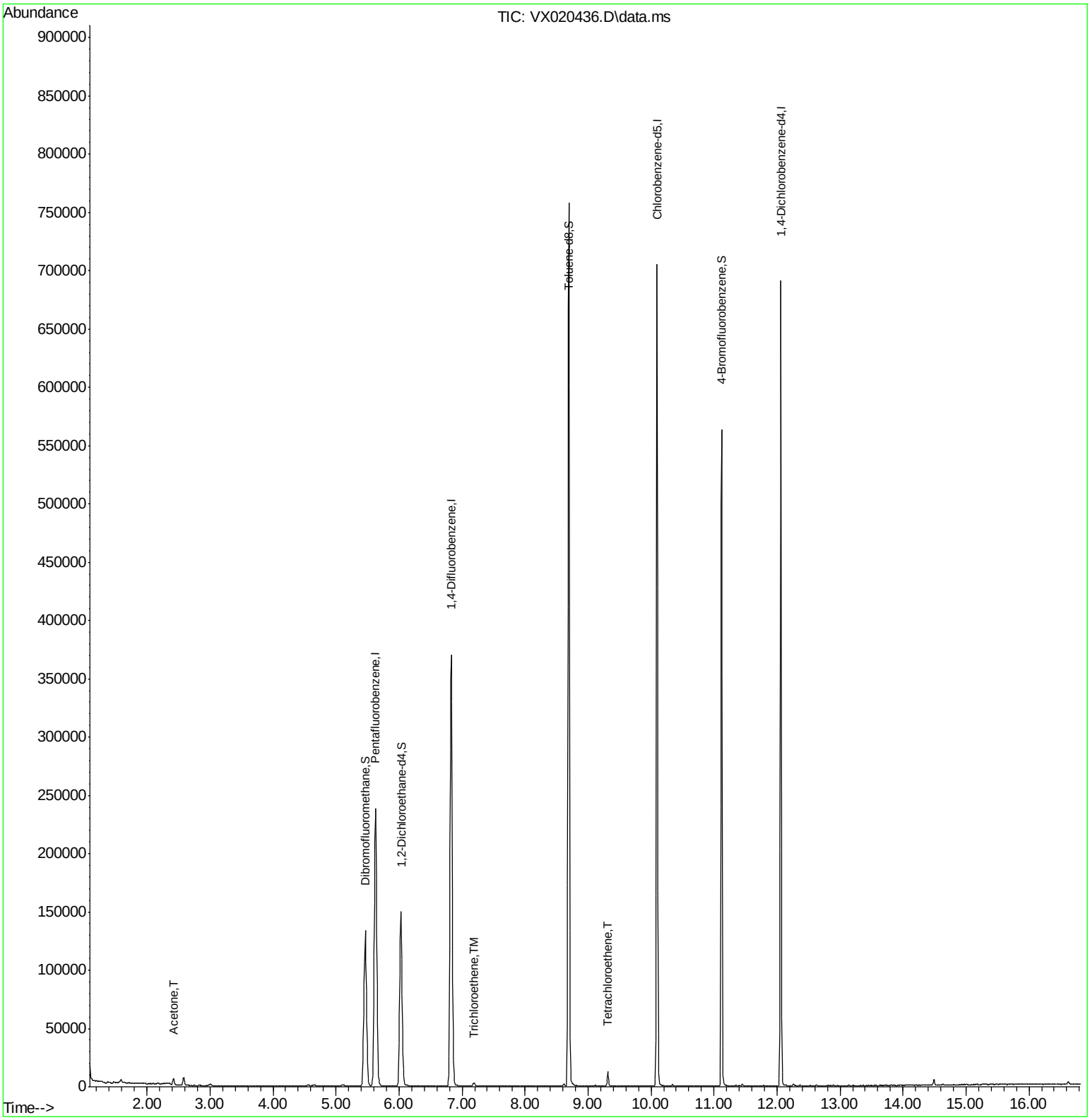
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	233241	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	378821	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	347626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	142555	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	141014	45.10	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 90.20%			
35) Dibromofluoromethane	5.465	113	118144	48.75	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.50%			
50) Toluene-d8	8.696	98	454752	48.75	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 97.50%			
62) 4-Bromofluorobenzene	11.122	95	156224	43.76	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 87.52%			
Target Compounds						Qvalue
16) Acetone	2.422	43	5749	4.03	ug/l	95
44) Trichloroethene	7.184	130	1190	0.40	ug/l	79
64) Tetrachloroethene	9.317	164	2616	1.00	ug/l #	81

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

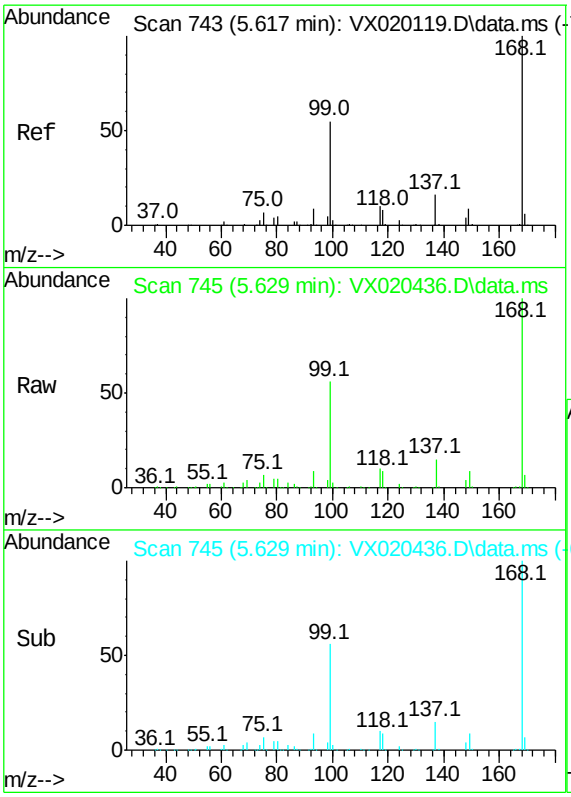
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020436.D
Acq On : 29 Dec 2020 15:56
Operator : JC/MD
Sample : L5236-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

Quant Time: Dec 30 02:37:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



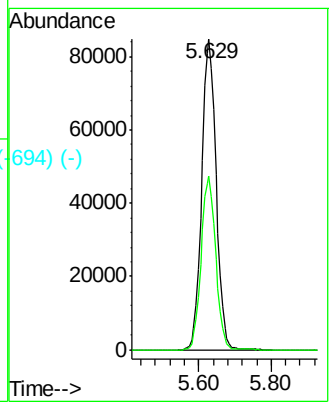
Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

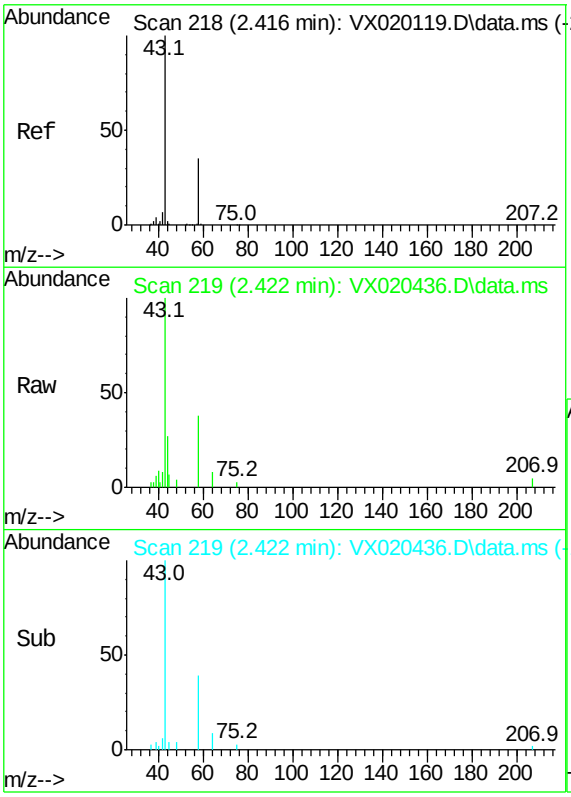


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion:168 Resp: 233241

Ion	Ratio	Lower	Upper
168	100		
99	55.9	45.8	68.6

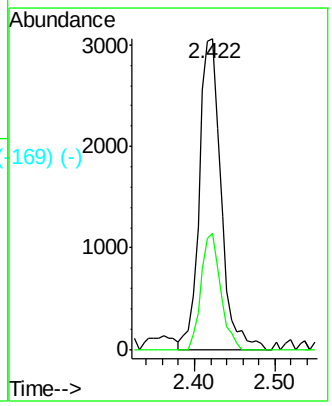




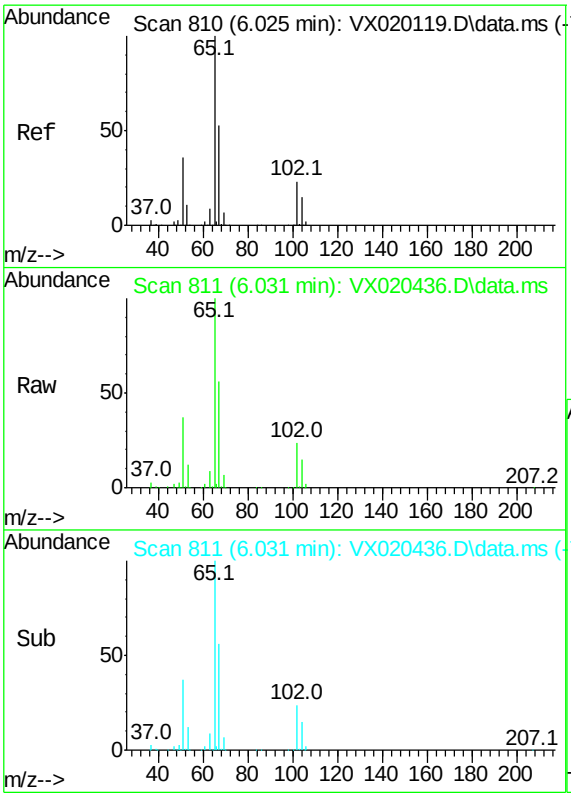
#16
Acetone
Concen: 4.03 ug/l
RT: 2.422 min Scan# 219
Delta R.T. 0.006 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion: 43 Resp: 5749

Ion	Ratio	Lower	Upper
43	100		
58	37.6	27.8	41.8



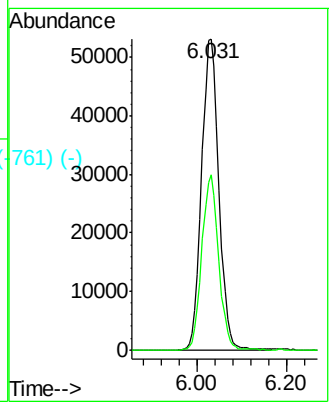
Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

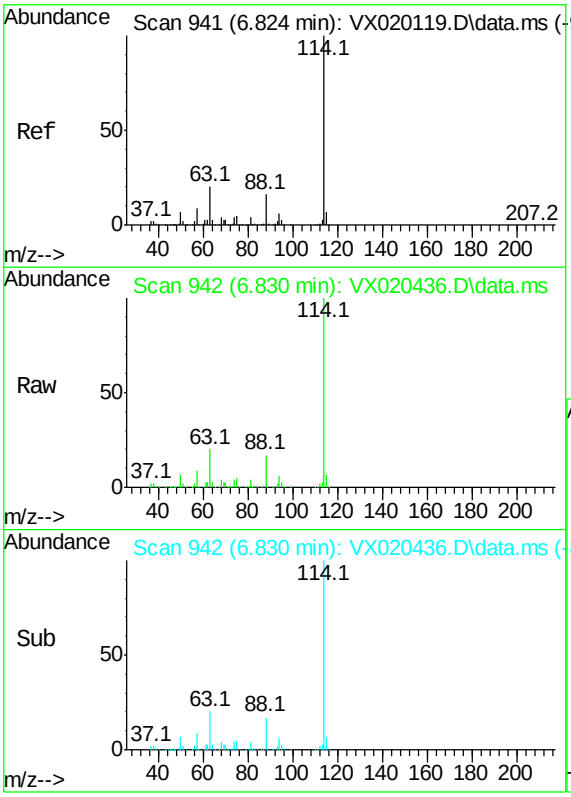


#33
1,2-Dichloroethane-d4
Concen: 45.10 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion: 65 Resp: 141014

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.4

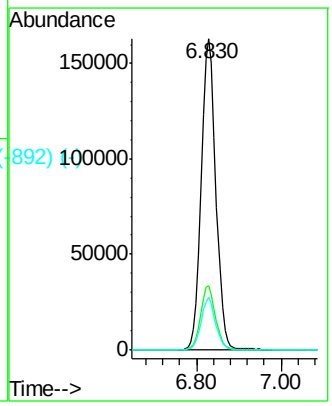




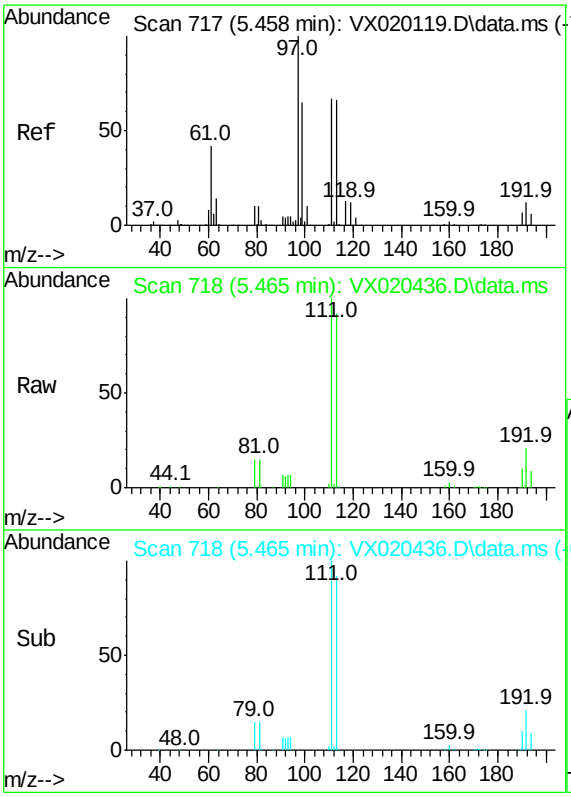
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion:114 Resp: 378821

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.8
88	16.9	0.0	32.8



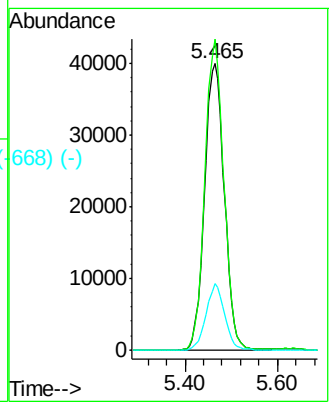
Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

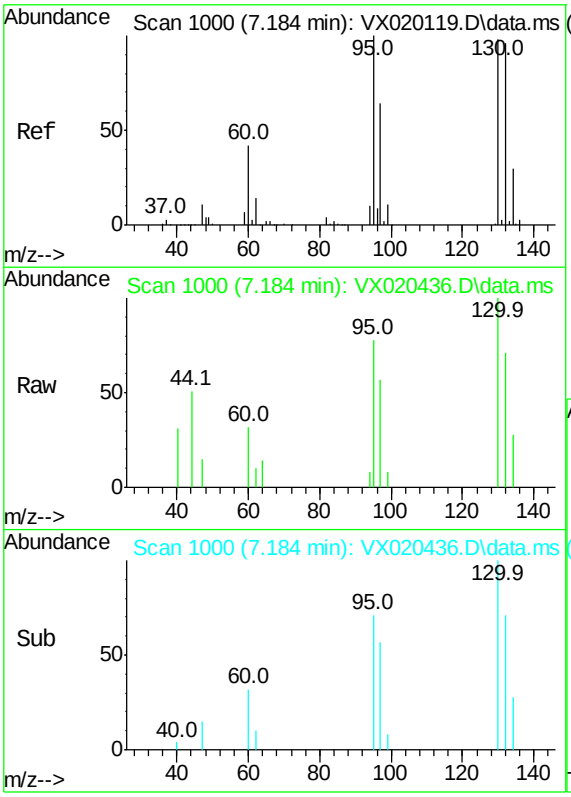


#35
Dibromofluoromethane
Concen: 48.75 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion:113 Resp: 118144

Ion	Ratio	Lower	Upper
113	100		
111	104.5	81.9	122.9
192	21.6	16.7	25.1

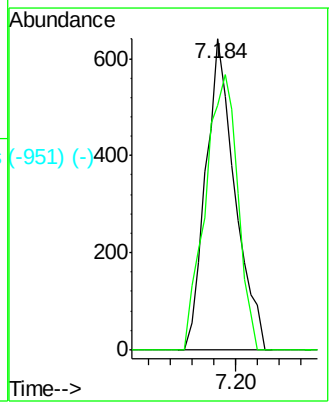




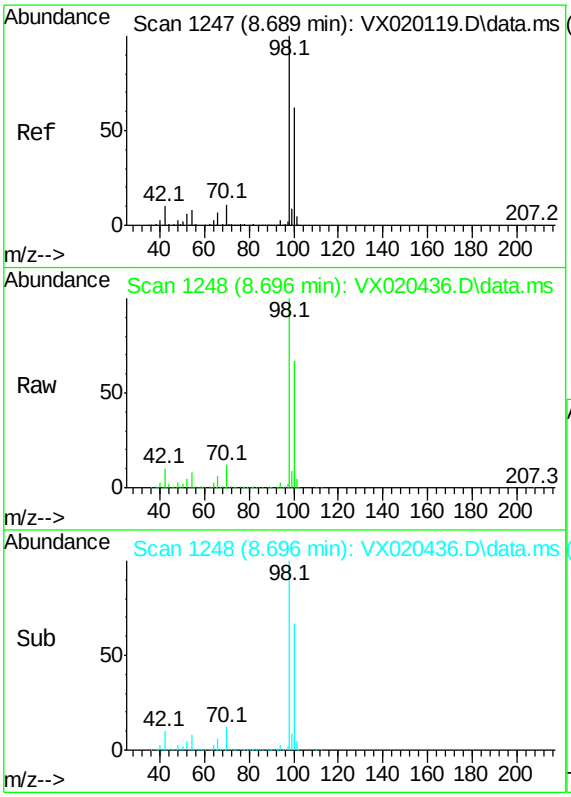
#44
Trichloroethene
Concen: 0.40 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion:130 Resp: 1190

Ion	Ratio	Lower	Upper
130	100		
95	78.5	0.0	198.0



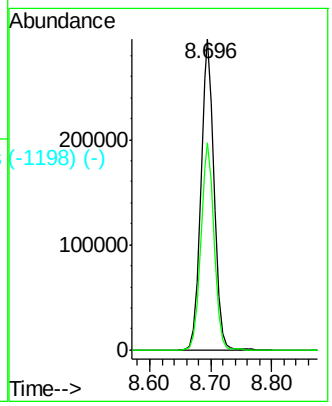
Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

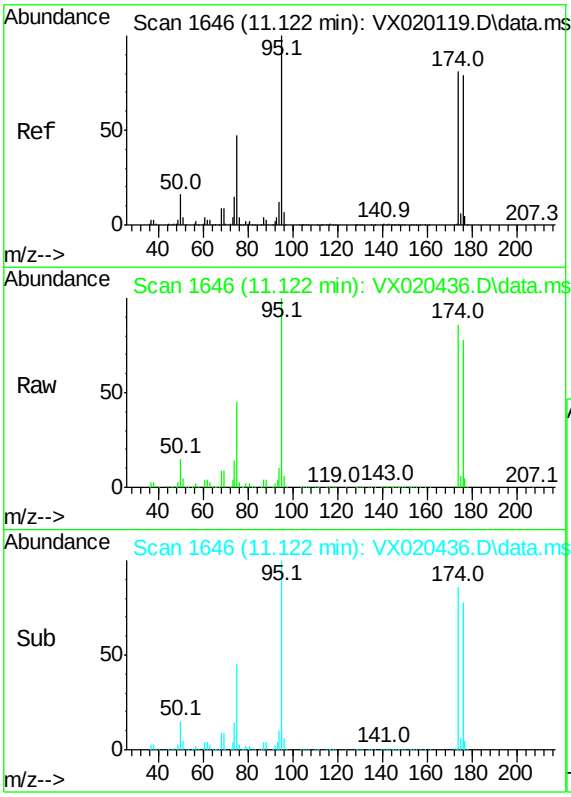


#50
Toluene-d8
Concen: 48.75 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion: 98 Resp: 454752

Ion	Ratio	Lower	Upper
98	100		
100	66.9	51.9	77.9

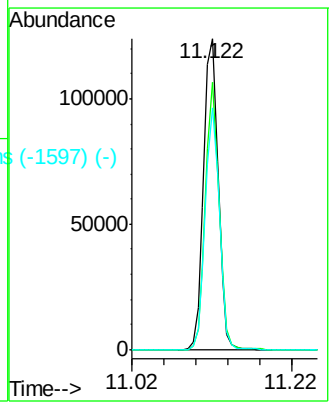




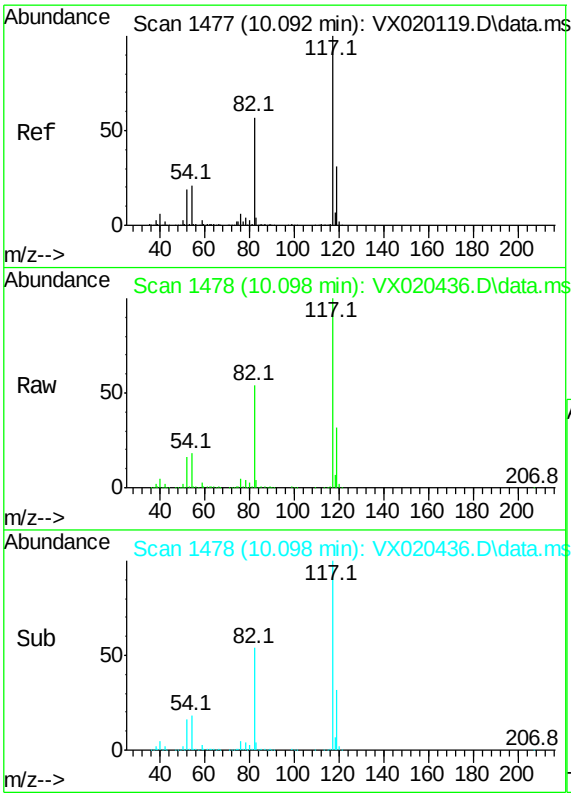
#68
4-Bromofluorobenzene
Concen: 43.76 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion: 95 Resp: 156224

Ion	Ratio	Lower	Upper
95	100		
174	80.1	0.0	154.6
176	75.1	0.0	155.8



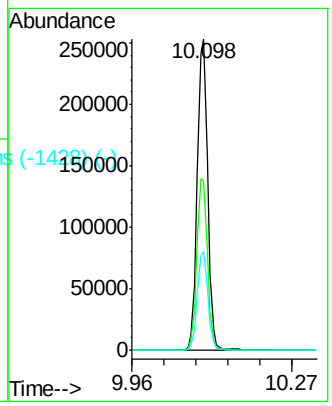
Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

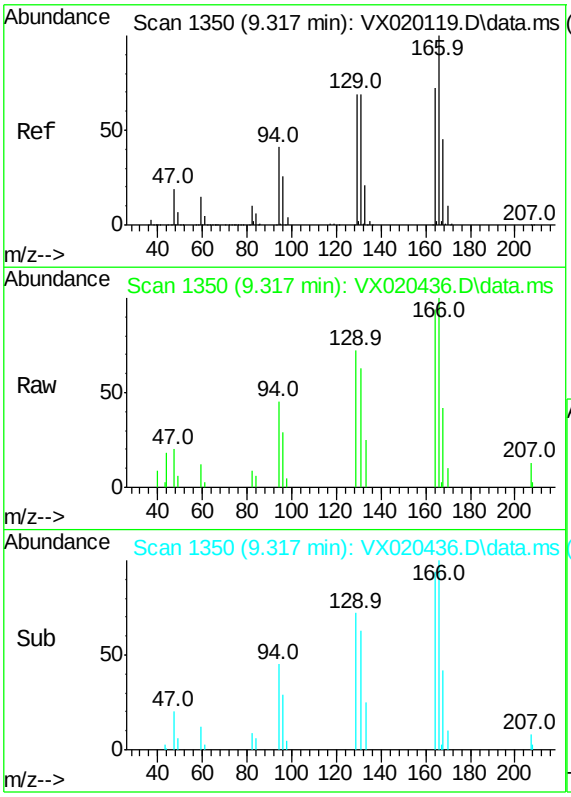


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion:117 Resp: 347626

Ion	Ratio	Lower	Upper
117	100		
82	54.3	47.4	71.2
119	31.7	26.6	39.8

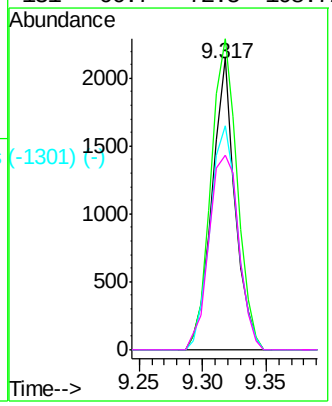




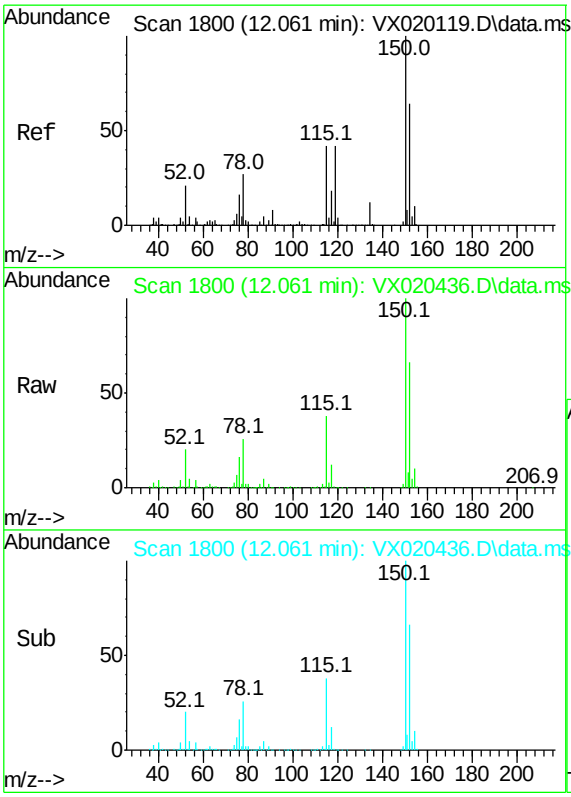
#64
Tetrachloroethene
Concen: 1.00 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion:164 Resp: 2616

Ion	Ratio	Lower	Upper
164	100		
166	106.8	103.4	155.2
129	76.8	70.8	106.2
131	66.7	72.5	108.7#



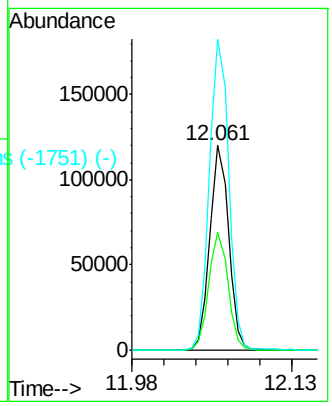
Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020436.D
Acq: 29 Dec 2020 15:56

Tgt Ion:152 Resp: 142555

Ion	Ratio	Lower	Upper
152	100		
115	58.5	41.1	123.3
150	156.8	0.0	349.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020436.D
Acq On : 29 Dec 2020 15:56
Operator : JC/MD
Sample : L5236-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 1020-MW-15(17)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020436.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.581	240	245	252	rVB	6503	11933	1.02%	0.198%
2	5.465	706	718	732	rBV	133763	384811	32.79%	6.372%
3	5.629	734	745	763	rVB2	238347	664124	56.59%	10.998%
4	6.031	800	811	826	rBV2	149571	396698	33.80%	6.569%
5	6.830	930	942	962	rBV	370084	861146	73.38%	14.261%
6	8.696	1241	1248	1257	rBV	757850	1173571	100.00%	19.434%
7	9.317	1344	1350	1356	rVB	12787	18311	1.56%	0.303%
8	10.098	1472	1478	1492	rVB	704434	993457	84.65%	16.452%
9	11.122	1640	1646	1658	rBV	563214	706213	60.18%	11.695%
10	12.061	1795	1800	1810	rVB	690276	828372	70.59%	13.718%

Sum of corrected areas: 6038636

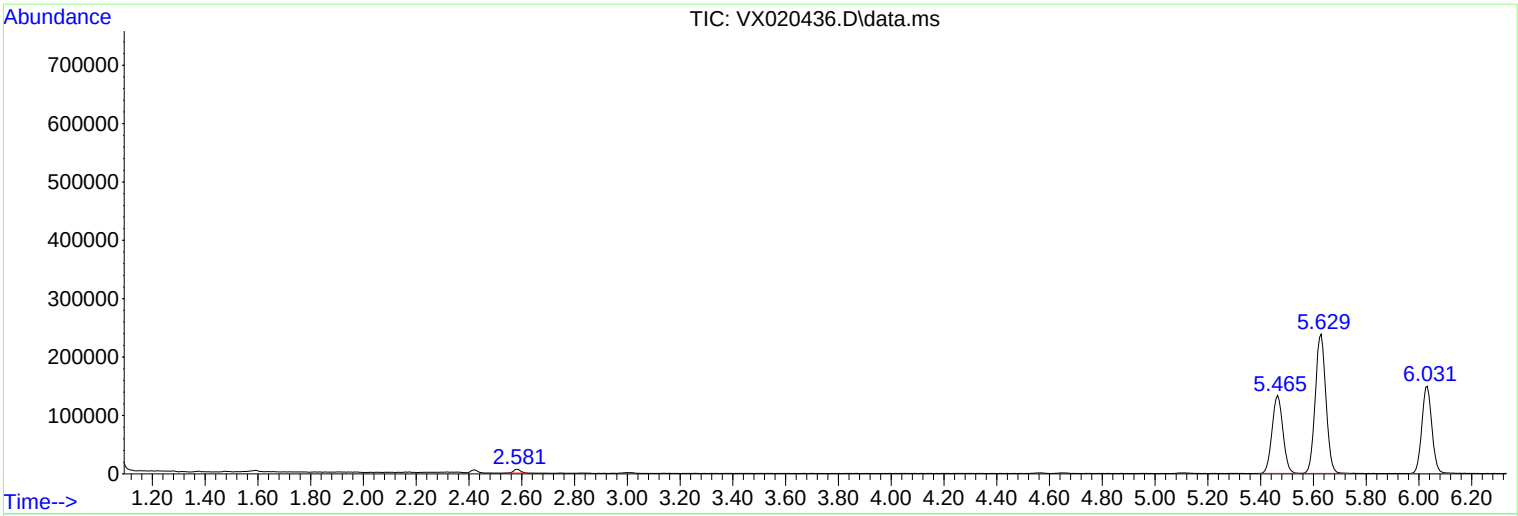
Sample Results: **VX020436.D**

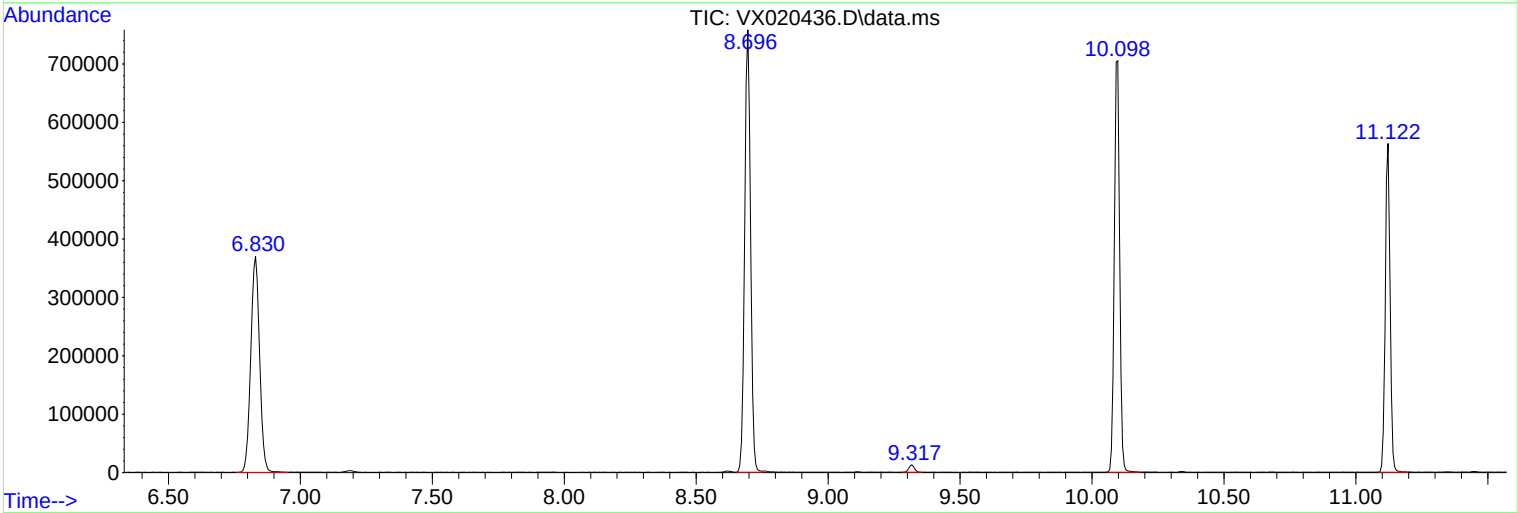
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020436.D
Acq On : 29 Dec 2020 15:56
Operator : JC/MD
Sample : L5236-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

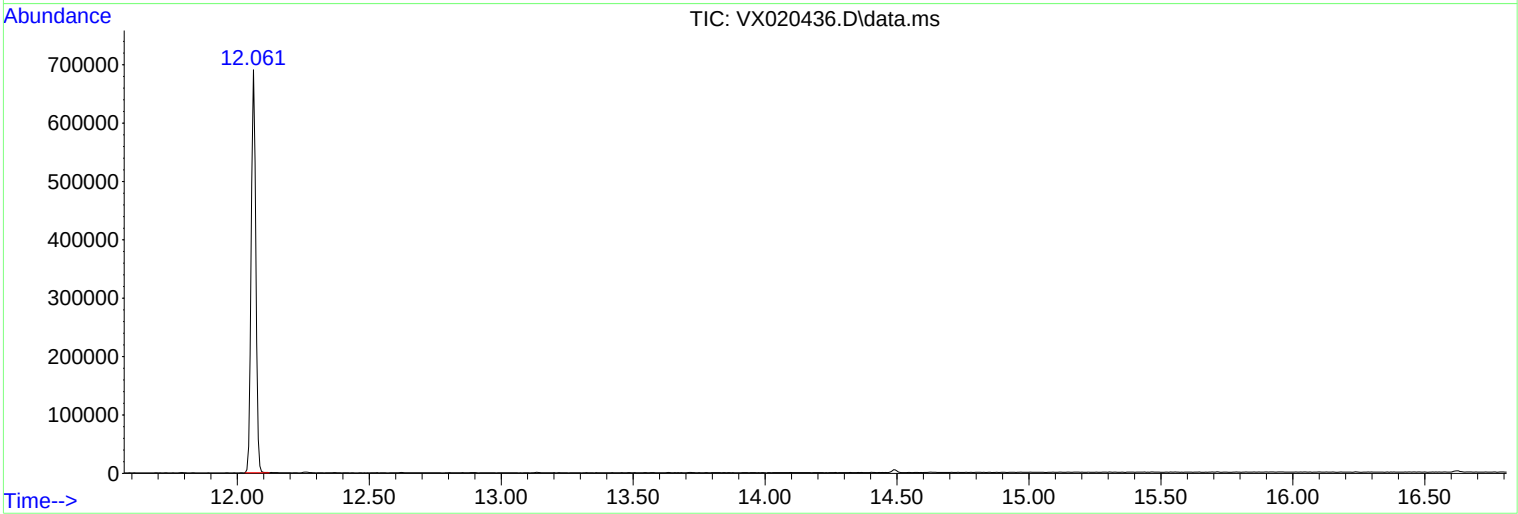
Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020436.D
Acq On : 29 Dec 2020 15:56
Operator : JC/MD
Sample : L5236-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1020-MW-15(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020436.D
Acq On : 29 Dec 2020 15:56
Operator : JC/MD
Sample : L5236-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 1020-MW-15(17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1021-MW-16(22.5)	SDG No.:	L5236
Lab Sample ID:	L5236-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020437.D	1		12/29/20 16:19	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.00	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	0.44	J	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	3.20		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1021-MW-16(22.5)	SDG No.:	L5236
Lab Sample ID:	L5236-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020437.D	1		12/29/20 16:19	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	6.10		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		78 - 117	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		83 - 123	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	233000	5.629			
540-36-3	1,4-Difluorobenzene	384000	6.83			
3114-55-4	Chlorobenzene-d5	349000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	150000	12.061			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

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File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020437.D	1		12/29/20 16:19	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020437.D
Acq On : 29 Dec 2020 16:19
Operator : JC/MD
Sample : L5236-09
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

Quant Time: Dec 30 02:38:11 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

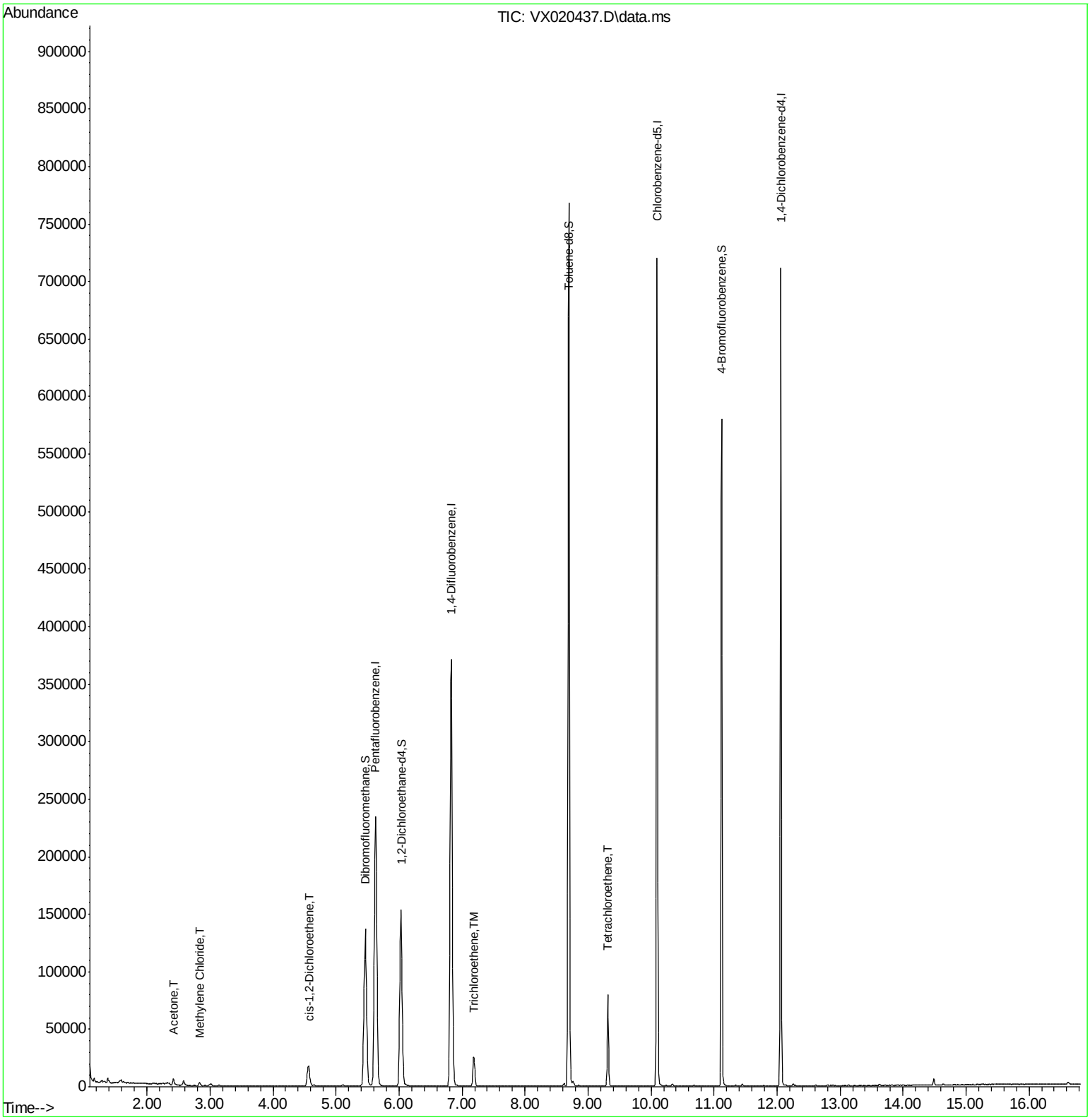
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	232805	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	384357	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	348678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	149581	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	141791	45.44	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 90.88%			
35) Dibromofluoromethane	5.464	113	120698	49.09	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.18%			
50) Toluene-d8	8.695	98	459023	48.50	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 97.00%			
62) 4-Bromofluorobenzene	11.122	95	161469	44.58	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 89.16%			
Target Compounds						Qvalue
16) Acetone	2.416	43	5621	3.95	ug/l	97
20) Methylene Chloride	2.837	84	1413	0.44	ug/l	98
27) cis-1,2-Dichloroethene	4.568	96	11754	3.61	ug/l	91
44) Trichloroethene	7.184	130	9895	3.24	ug/l	100
64) Tetrachloroethene	9.317	164	15893	6.05	ug/l	95

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

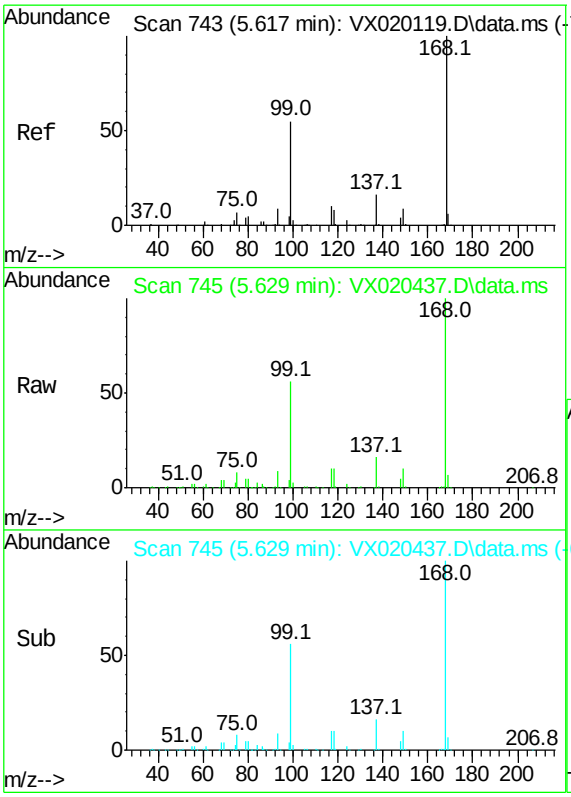
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020437.D
Acq On : 29 Dec 2020 16:19
Operator : JC/MD
Sample : L5236-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

Quant Time: Dec 30 02:38:11 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



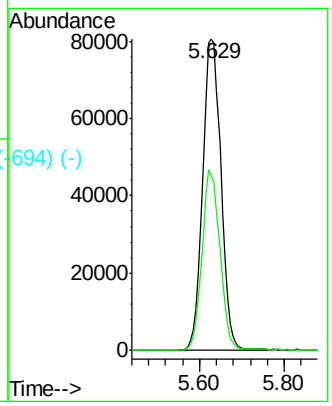
Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

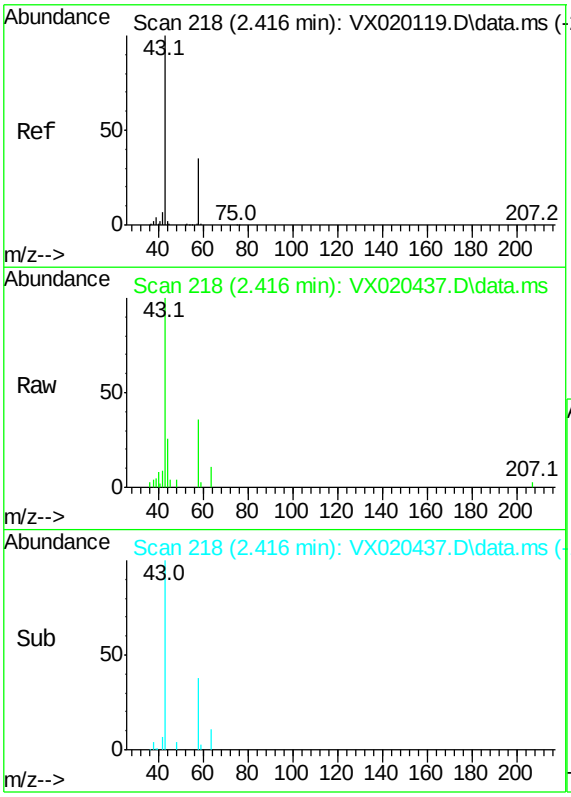


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion:168 Resp: 232805

Ion	Ratio	Lower	Upper
168	100		
99	56.1	45.8	68.6

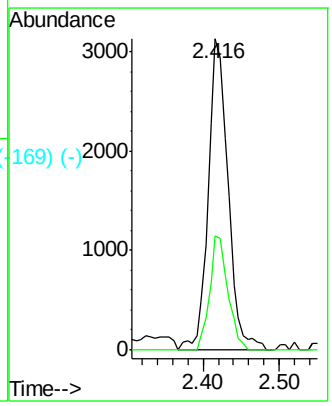




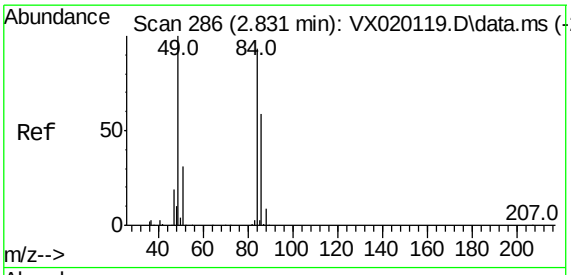
#16
Acetone
Concen: 3.95 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion: 43 Resp: 5621

Ion	Ratio	Lower	Upper
43	100		
58	36.5	27.8	41.8



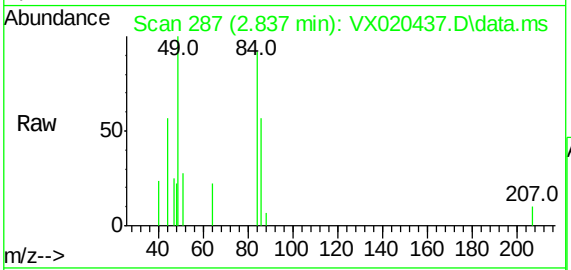
Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

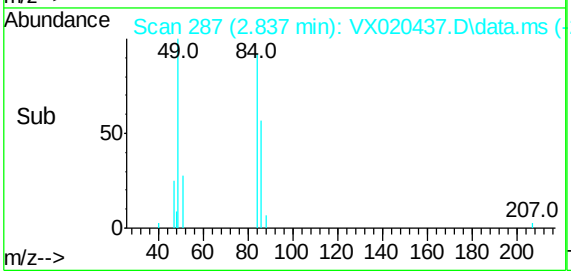


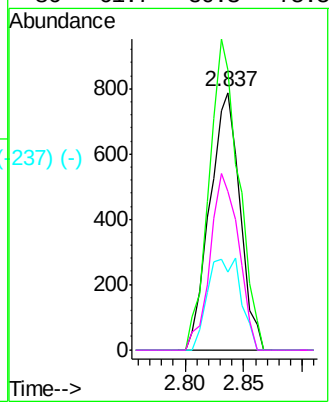
#20
Methylene Chloride
Concen: 0.44 ug/l
RT: 2.837 min Scan# 287
Delta R.T. 0.006 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

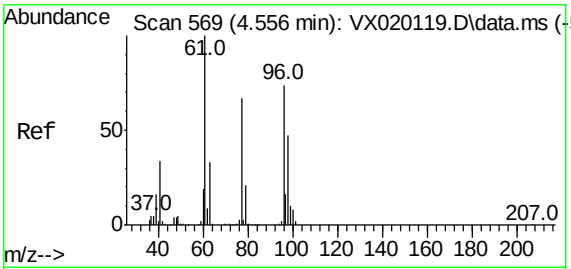
Tgt Ion: 84 Resp: 1413

Ion	Ratio	Lower	Upper
84	100		
49	109.0	88.6	132.8
51	30.2	27.0	40.6
86	61.7	50.3	75.5





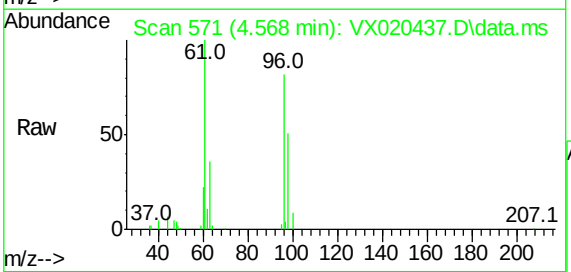


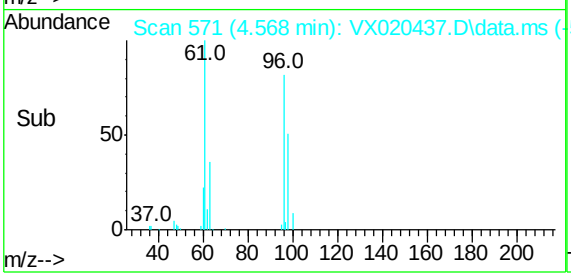


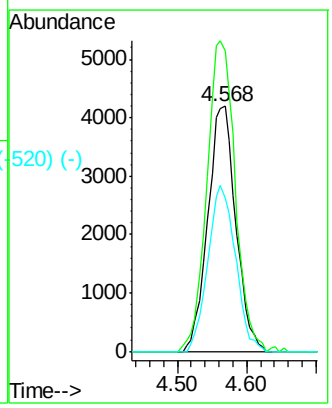
#27
cis-1,2-Dichloroethene
Concen: 3.61 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.012 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion: 96 Resp: 11754

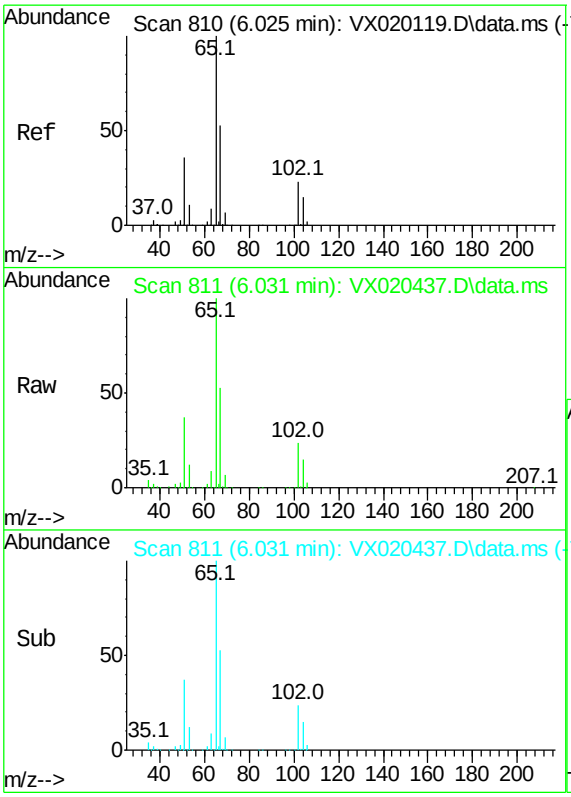
Ion	Ratio	Lower	Upper
96	100		
61	128.7	0.0	285.6
98	66.7	0.0	129.6







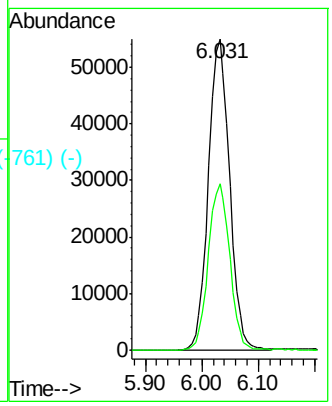
Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

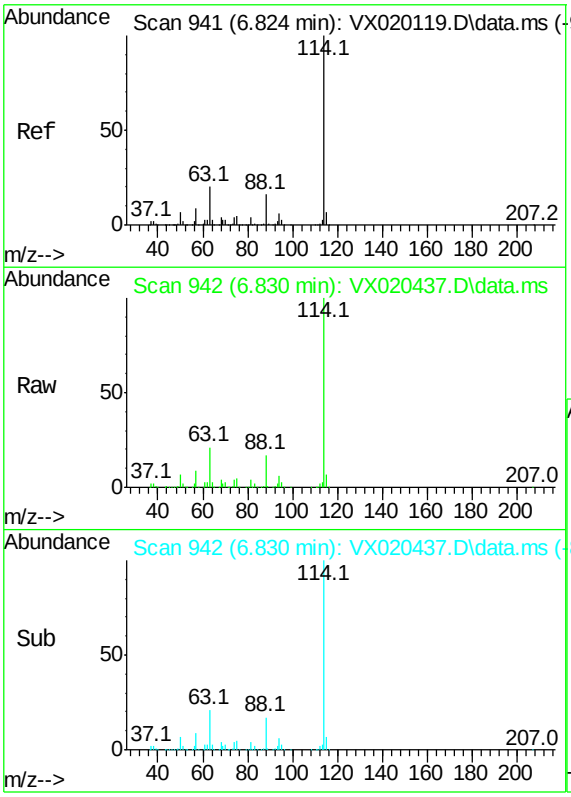


#33
1,2-Dichloroethane-d4
Concen: 45.44 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion: 65 Resp: 141791

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.4

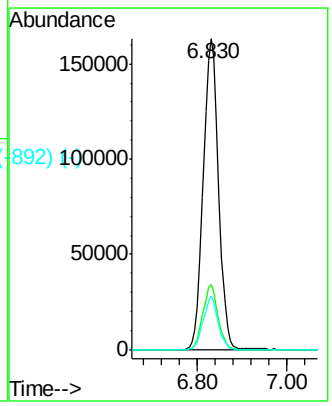




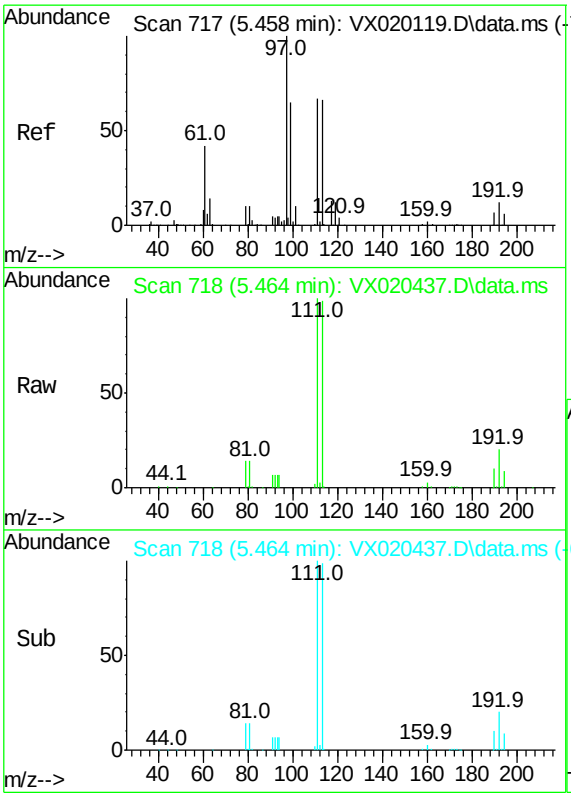
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion:114 Resp: 384357

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.8
88	17.0	0.0	32.8



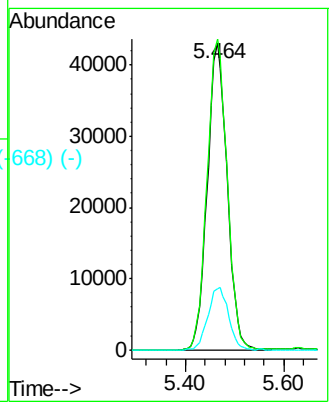
Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

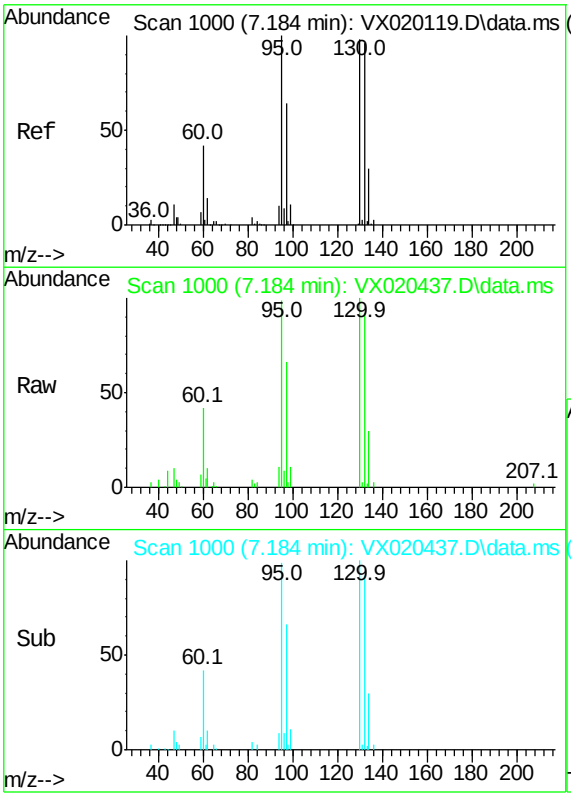


#35
Dibromofluoromethane
Concen: 49.09 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion:113 Resp: 120698

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	21.1	16.7	25.1

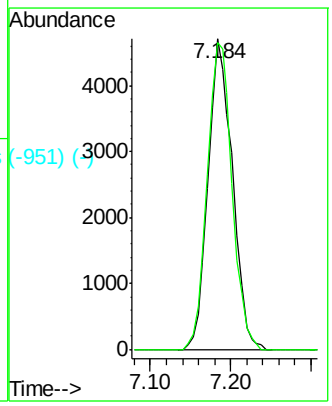




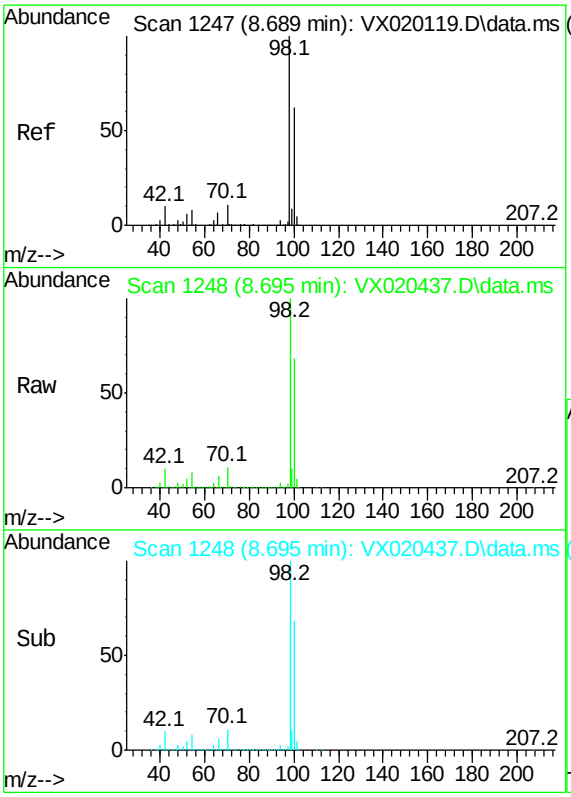
#44
Trichloroethene
Concen: 3.24 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion:130 Resp: 9895

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	198.0



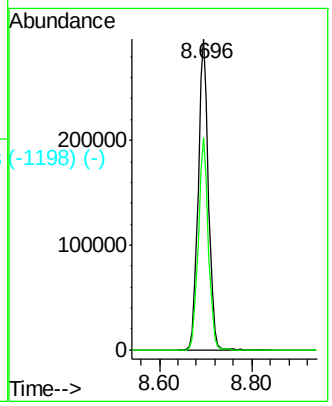
Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

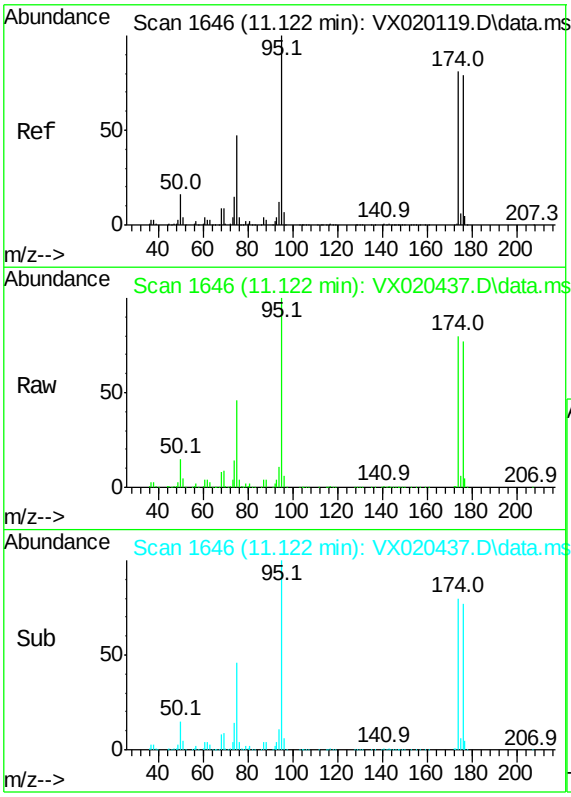


#50
Toluene-d8
Concen: 48.50 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion: 98 Resp: 459023

Ion	Ratio	Lower	Upper
98	100		
100	66.8	51.9	77.9

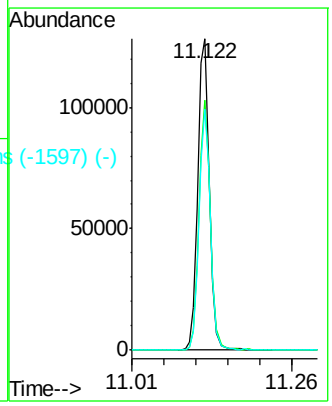




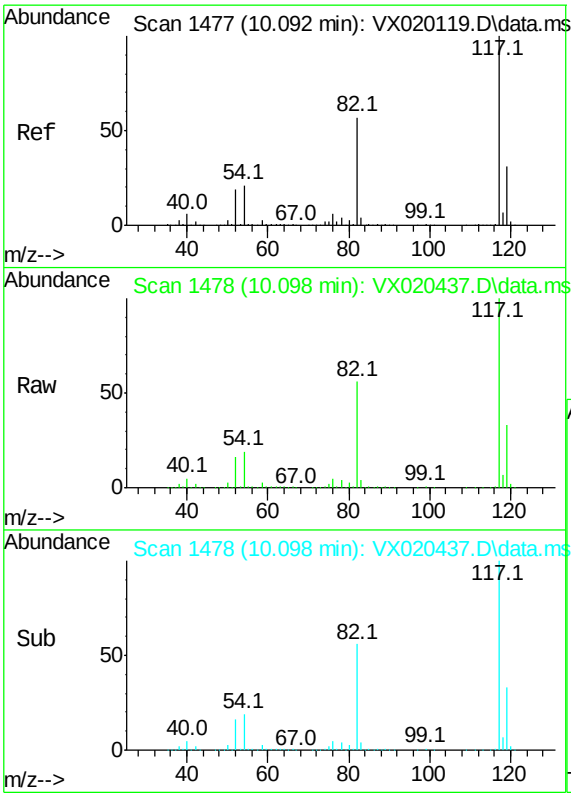
#68
4-Bromofluorobenzene
Concen: 44.58 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion: 95 Resp: 161469

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	154.6
176	75.8	0.0	155.8



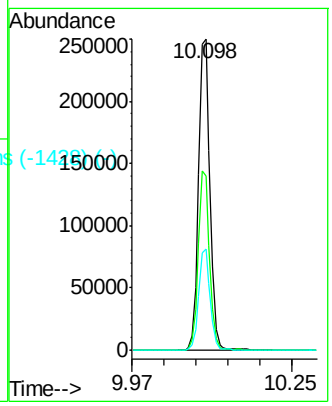
Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

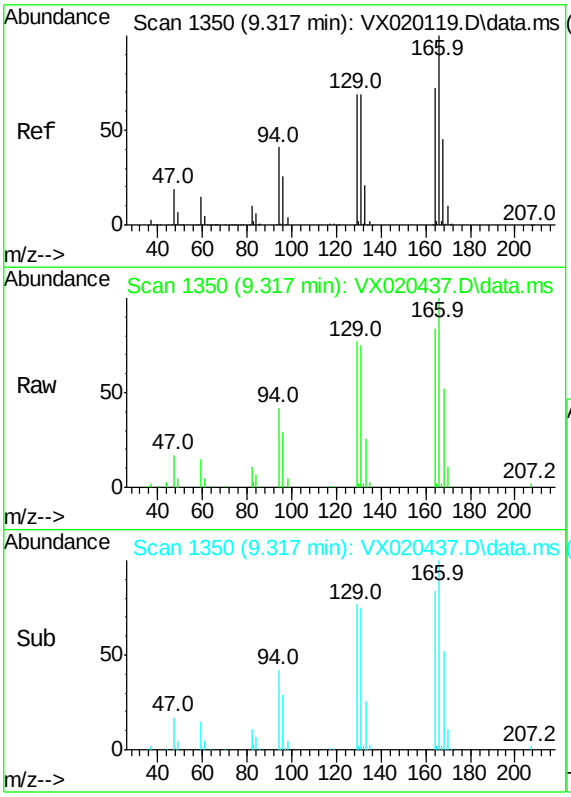


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion:117 Resp: 348678

Ion	Ratio	Lower	Upper
117	100		
82	56.0	47.4	71.2
119	32.5	26.6	39.8

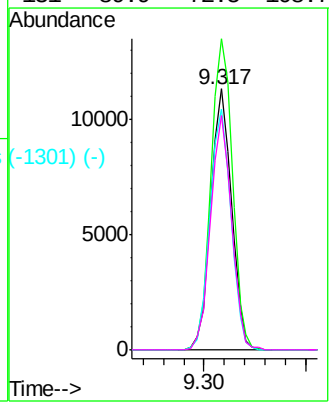




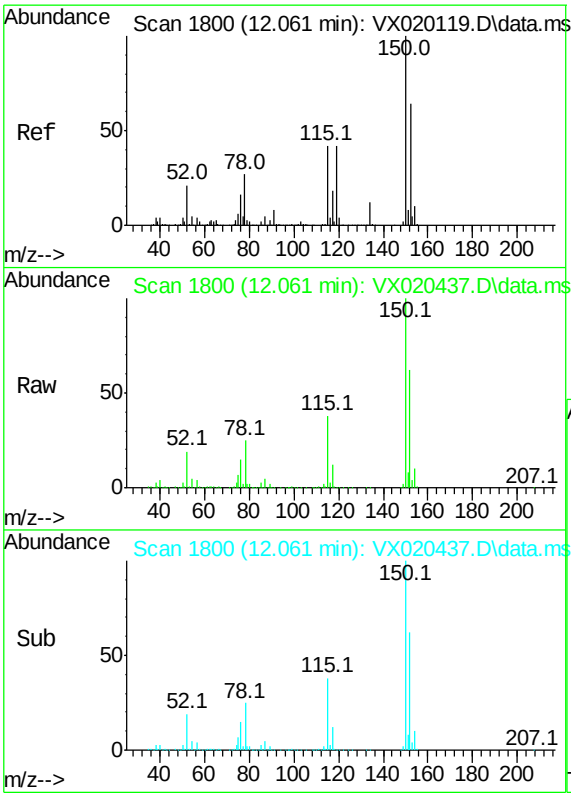
#64
Tetrachloroethene
Concen: 6.05 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion:164 Resp: 15893

Ion	Ratio	Lower	Upper
164	100		
166	119.2	103.4	155.2
129	92.1	70.8	106.2
131	89.9	72.5	108.7



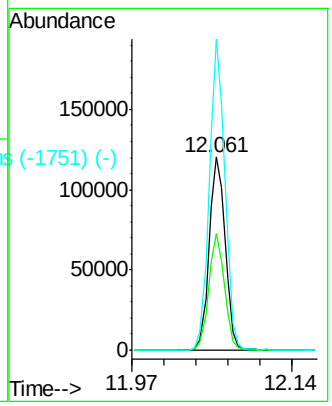
Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020437.D
Acq: 29 Dec 2020 16:19

Tgt Ion:152 Resp: 149581

Ion	Ratio	Lower	Upper
152	100		
115	59.0	41.1	123.3
150	156.4	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020437.D
Acq On : 29 Dec 2020 16:19
Operator : JC/MD
Sample : L5236-09
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020437.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.562	556	570	581	rBV2	17780	50708	4.28%	0.801%
2	5.464	706	718	733	rBV2	136852	391892	33.07%	6.188%
3	5.629	733	745	760	rVB	233528	665512	56.17%	10.509%
4	6.031	798	811	832	rBV	153827	402050	33.93%	6.348%
5	6.830	931	942	955	rBV	371342	870707	73.48%	13.749%
6	7.184	992	1000	1008	rBV2	24911	52838	4.46%	0.834%
7	8.696	1240	1248	1256	rBV	768012	1184879	100.00%	18.710%
8	9.317	1344	1350	1358	rVB	79338	113500	9.58%	1.792%
9	10.092	1471	1477	1493	rBV	719381	1008194	85.09%	15.920%
10	11.122	1640	1646	1660	rBV	579770	725321	61.21%	11.453%
11	12.061	1794	1800	1808	rBV	711269	867405	73.21%	13.697%

Sum of corrected areas: 6333006

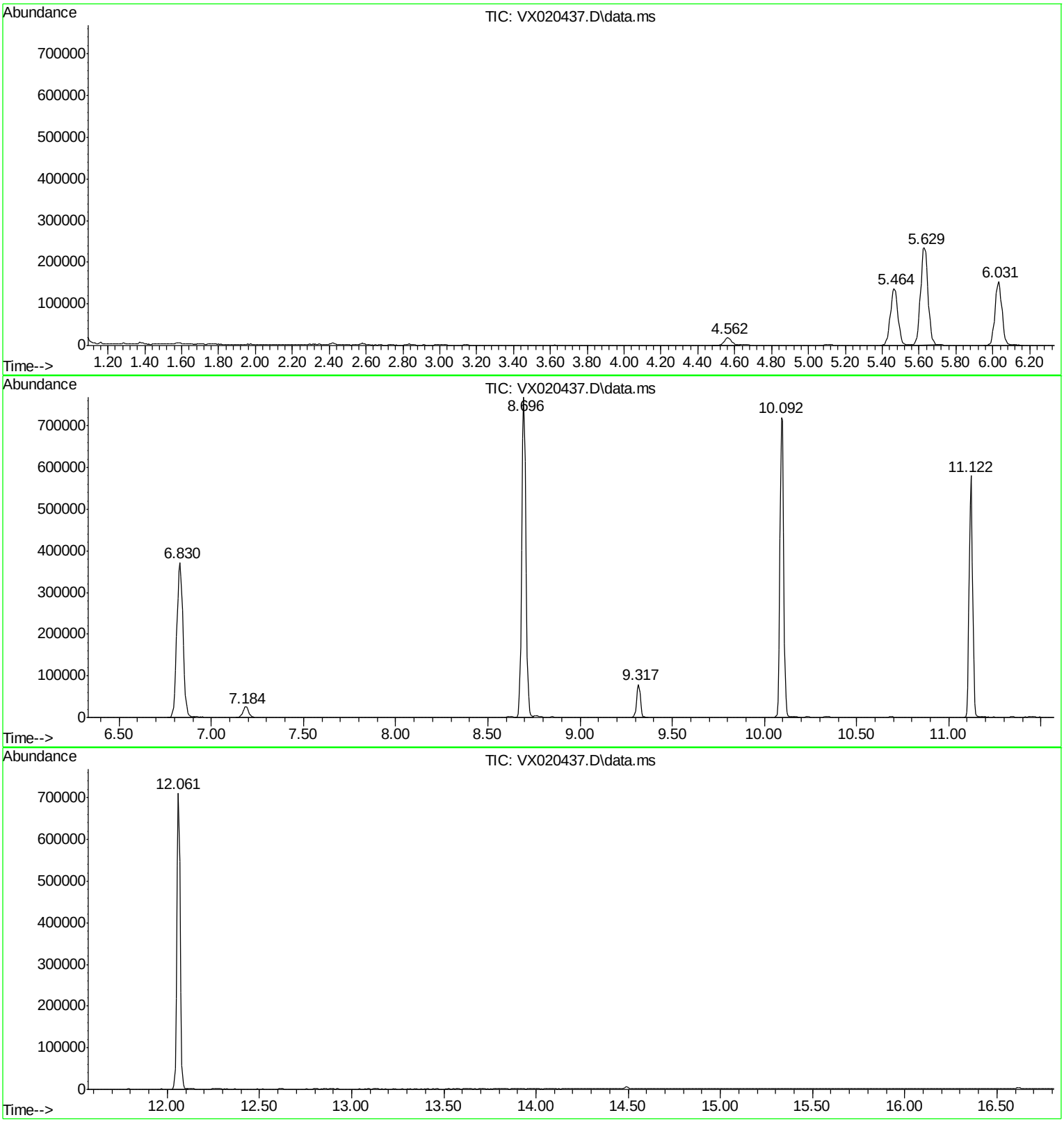
Sample Results: **VX020437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020437.D
Acq On : 29 Dec 2020 16:19
Operator : JC/MD
Sample : L5236-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020437.D
Acq On : 29 Dec 2020 16:19
Operator : JC/MD
Sample : L5236-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020437.D
Acq On : 29 Dec 2020 16:19
Operator : JC/MD
Sample : L5236-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1021-MW-16(22.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1022-MW-17A(15.5)	SDG No.:	L5236
Lab Sample ID:	L5236-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020438.D	1		12/29/20 16:43	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	13.1		0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.20	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.10		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	100		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	0.25	J	0.17	1.00	ug/L
71-43-2	Benzene	0.24	J	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1022-MW-17A(15.5)	SDG No.:	L5236
Lab Sample ID:	L5236-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020438.D	1		12/29/20 16:43	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	4.80		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.4		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6		83 - 123	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	5.629			
540-36-3	1,4-Difluorobenzene	389000	6.83			
3114-55-4	Chlorobenzene-d5	346000	10.092			
3855-82-1	1,4-Dichlorobenzene-d4	144000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1022-MW-17A(15.5)	SDG No.:	L5236
Lab Sample ID:	L5236-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020438.D	1		12/29/20 16:43	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020438.D
Acq On : 29 Dec 2020 16:43
Operator : JC/MD
Sample : L5236-10
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

Quant Time: Dec 30 02:38:27 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

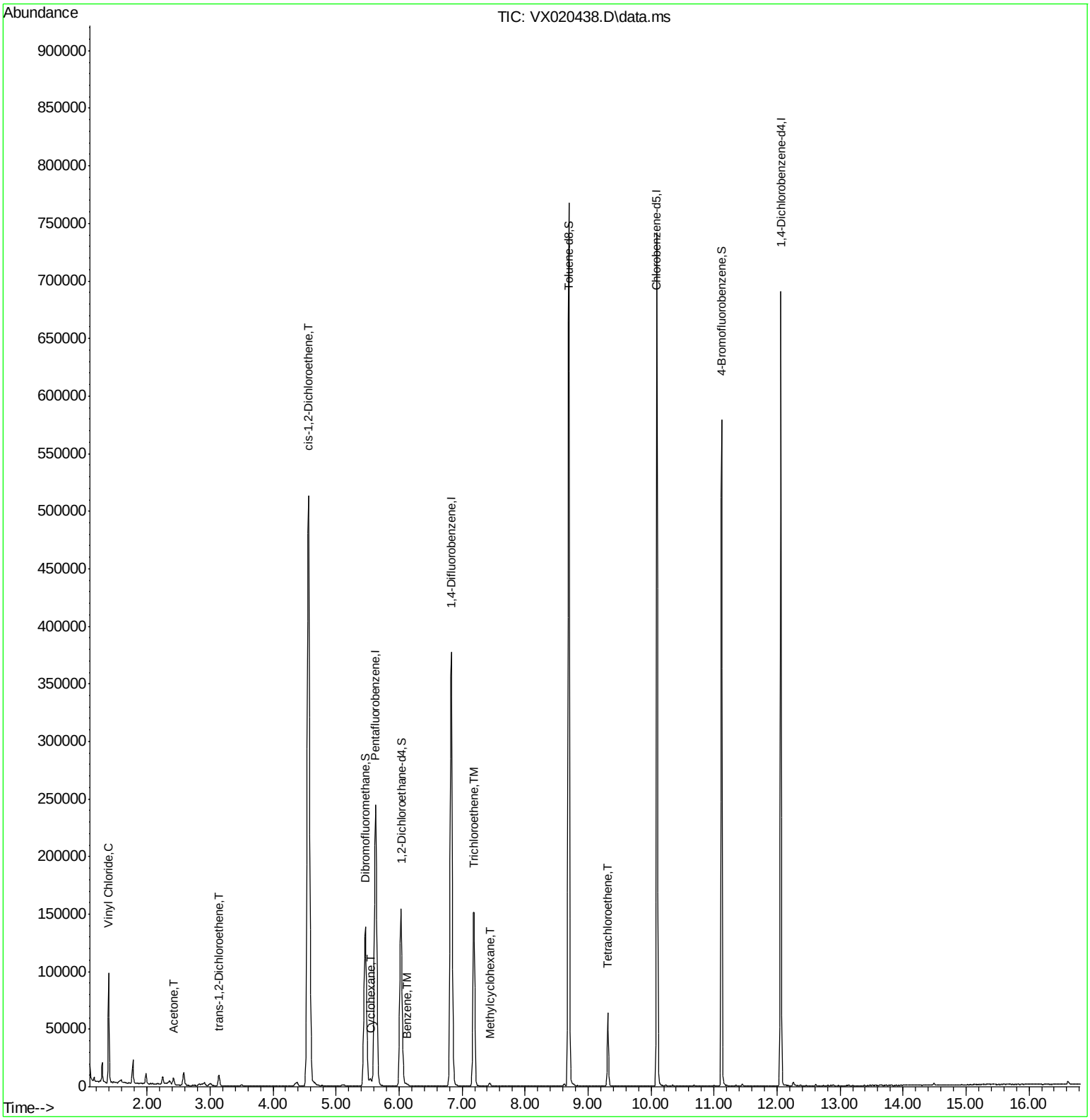
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	242846	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	389351	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	346068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	144087	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	144278	44.32	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 88.64%			
35) Dibromofluoromethane	5.464	113	121670	48.85	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.70%			
50) Toluene-d8	8.695	98	463670	48.36	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 96.72%			
62) 4-Bromofluorobenzene	11.122	95	159955	43.59	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 87.18%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.392	62	43549	13.07	ug/l	98
16) Acetone	2.416	43	6226	4.19	ug/l	93
21) trans-1,2-Dichloroethene	3.142	96	3412	1.13	ug/l	89
27) cis-1,2-Dichloroethene	4.562	96	342981	100.96	ug/l	90
31) Cyclohexane	5.544	56	4159	0.93	ug/l	99
39) Methylcyclohexane	7.440	83	1129	0.25	ug/l	95
40) Benzene	6.117	78	2866	0.24	ug/l	98
44) Trichloroethene	7.190	130	61369	19.82	ug/l	98
64) Tetrachloroethene	9.317	164	12481	4.79	ug/l	93

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

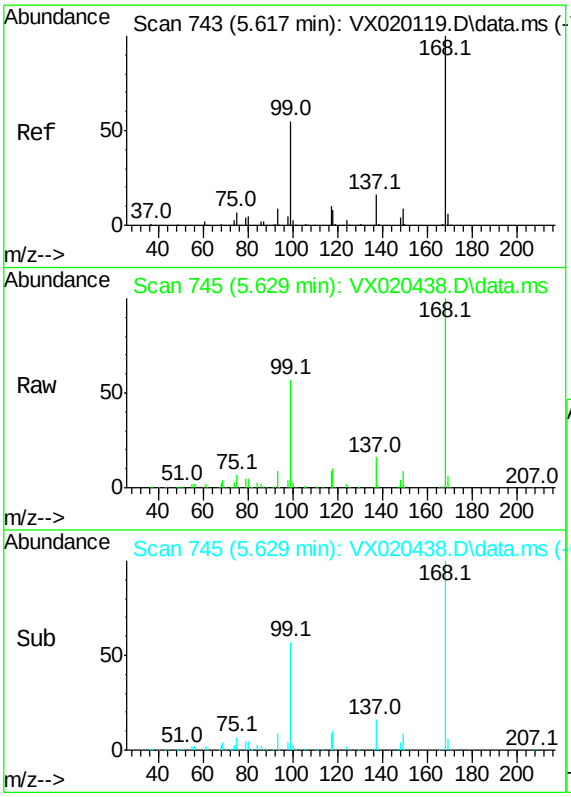
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020438.D
Acq On : 29 Dec 2020 16:43
Operator : JC/MD
Sample : L5236-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

Quant Time: Dec 30 02:38:27 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



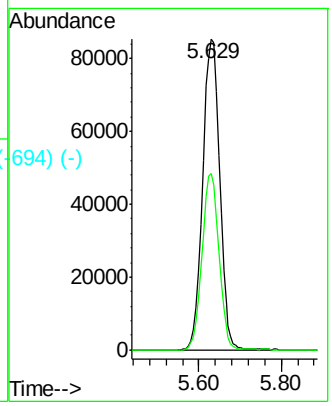
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

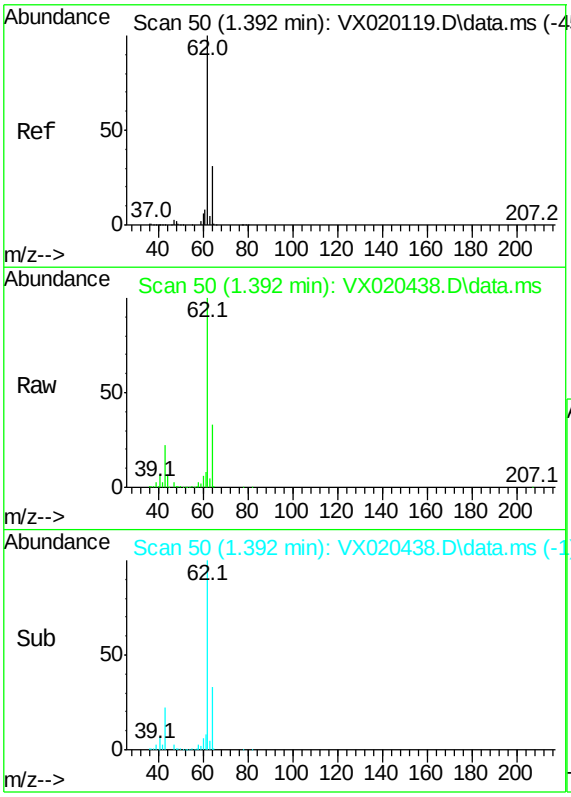


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion:168 Resp: 242846

Ion	Ratio	Lower	Upper
168	100		
99	56.6	45.8	68.6

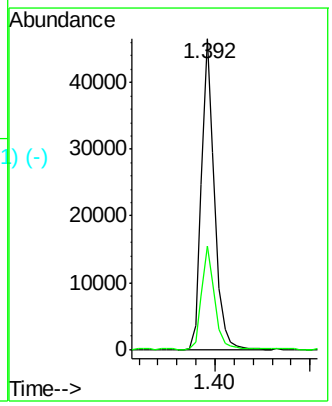




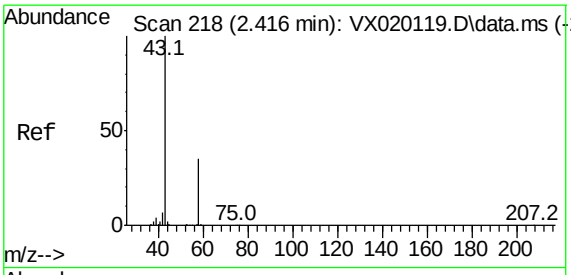
#4
Vinyl Chloride
Concen: 13.07 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 62 Resp: 43549

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.7	38.5



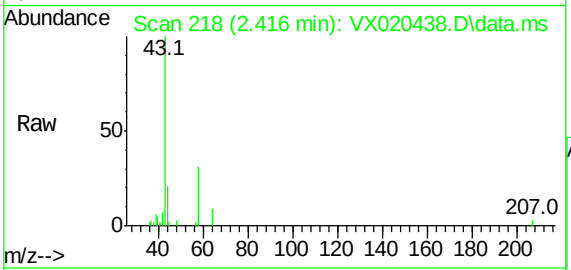
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

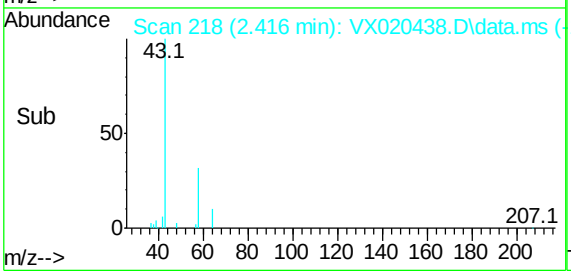


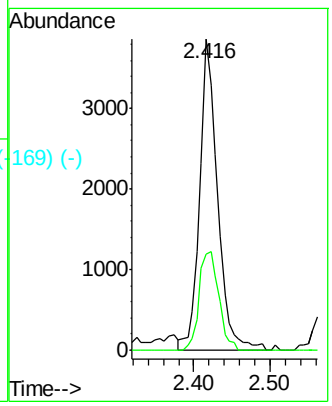
#16
Acetone
Concen: 4.19 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

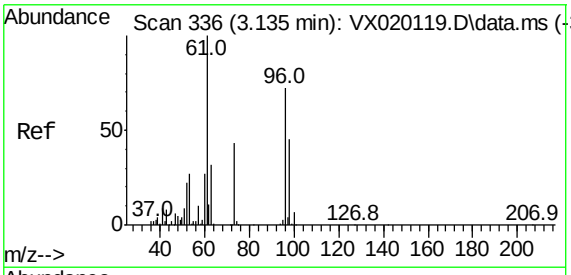
Tgt Ion: 43 Resp: 6226

Ion	Ratio	Lower	Upper
43	100		
58	30.8	27.8	41.8





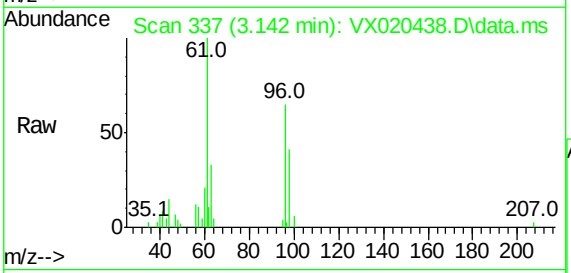


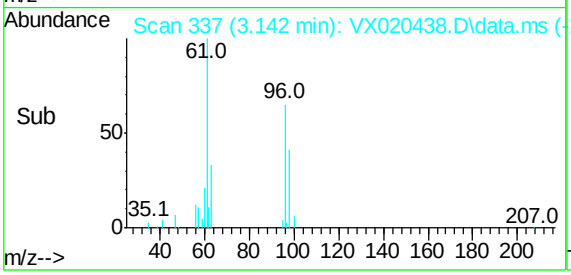


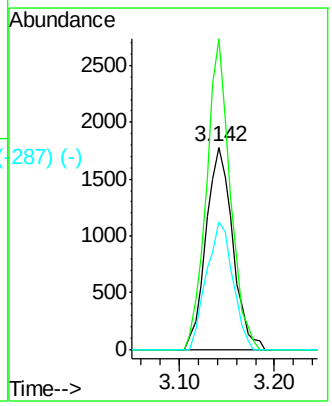
#21
trans-1,2-Dichloroethene
Concen: 1.13 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 96 Resp: 3412

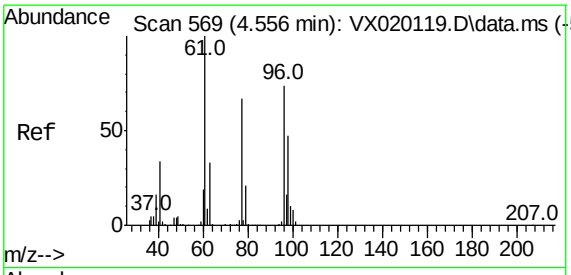
Ion	Ratio	Lower	Upper
96	100		
61	153.4	107.7	161.5
98	63.3	50.4	75.6







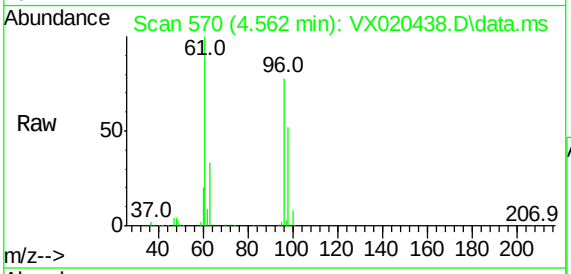
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

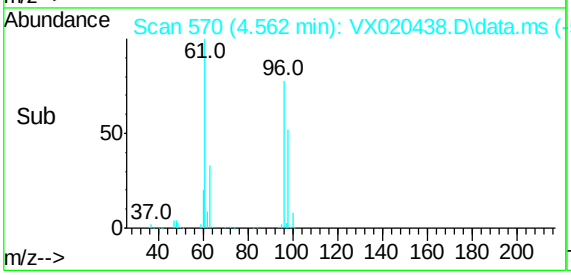


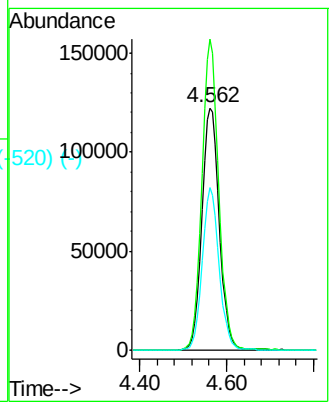
#27 (-)
cis-1,2-Dichloroethene
Concen: 100.96 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

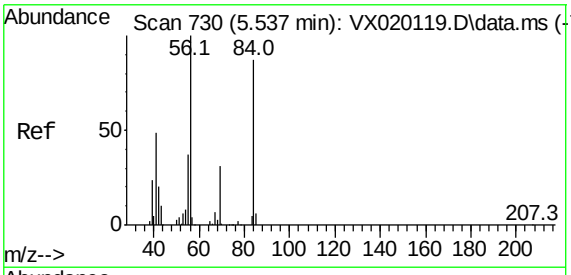
Tgt Ion: 96 Resp: 342981

Ion	Ratio	Lower	Upper
96	100		
61	124.2	0.0	285.6
98	64.7	0.0	129.6





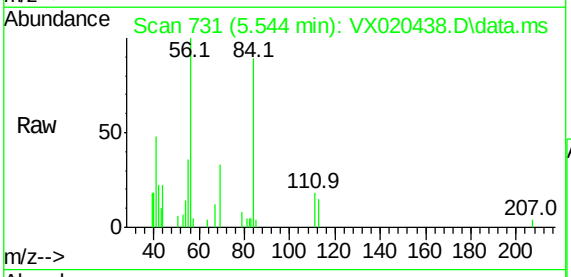


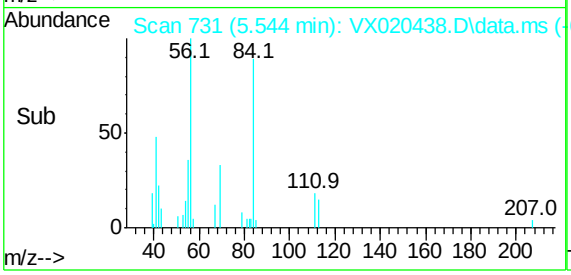


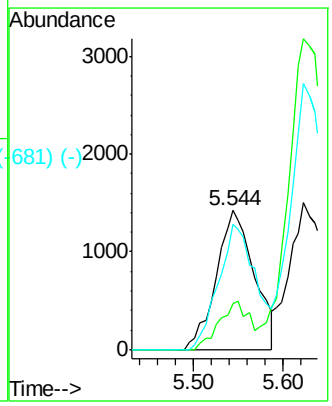
#31 (-)
Cyclohexane
Concen: 0.93 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.007 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 56 Resp: 4159

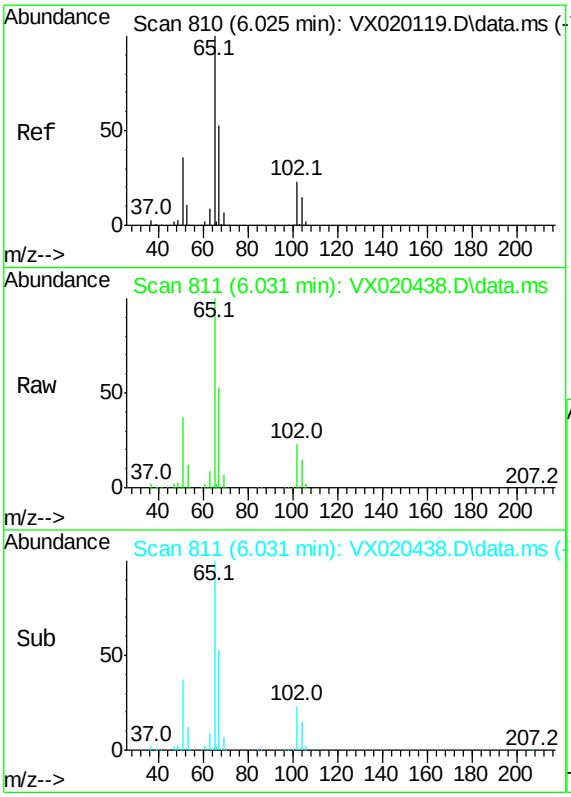
Ion	Ratio	Lower	Upper
56	100		
69	32.8	25.3	37.9
84	89.5	71.4	107.0







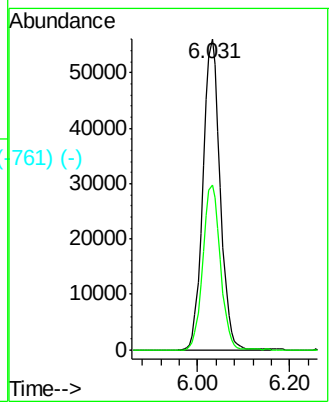
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

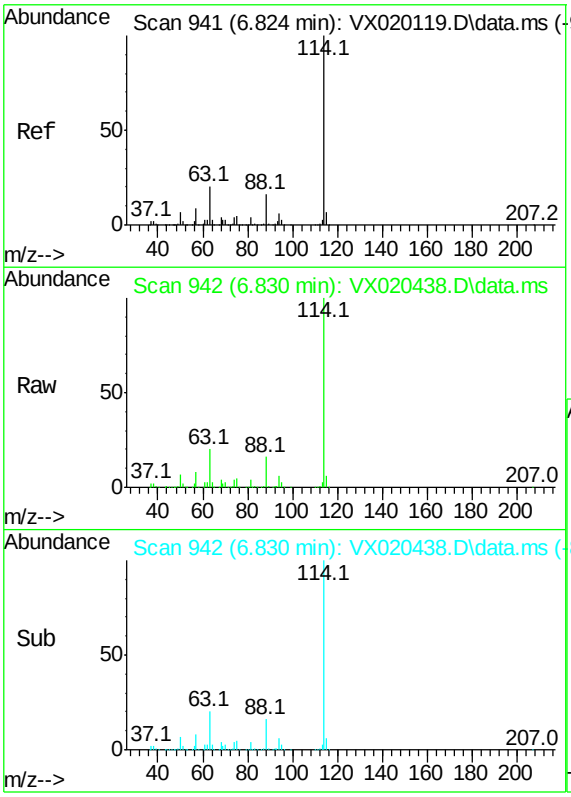


#33
1,2-Dichloroethane-d4
Concen: 44.32 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 65 Resp: 144278

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.4

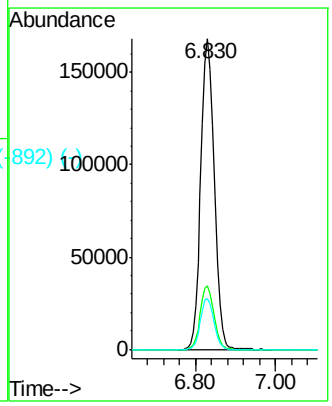




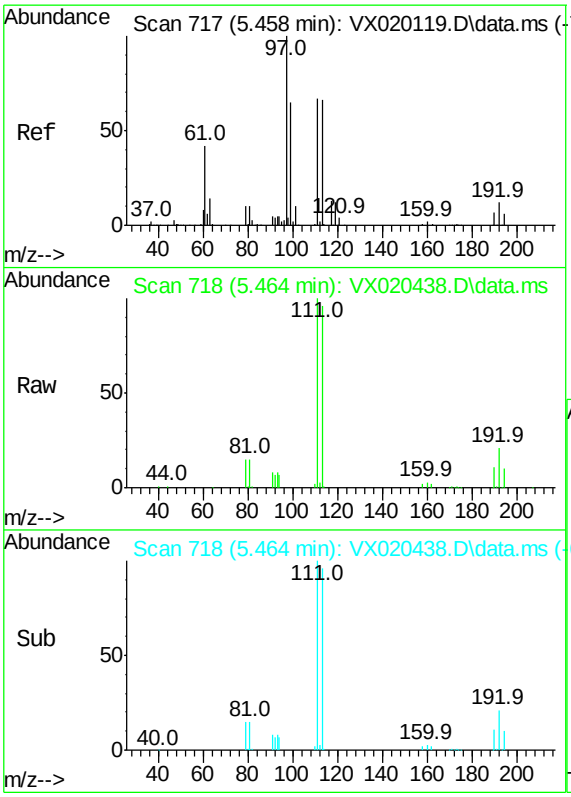
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion:114 Resp: 389351

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.8
88	16.4	0.0	32.8



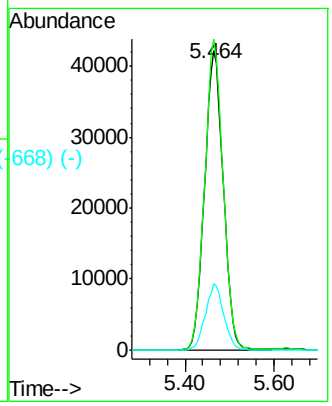
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

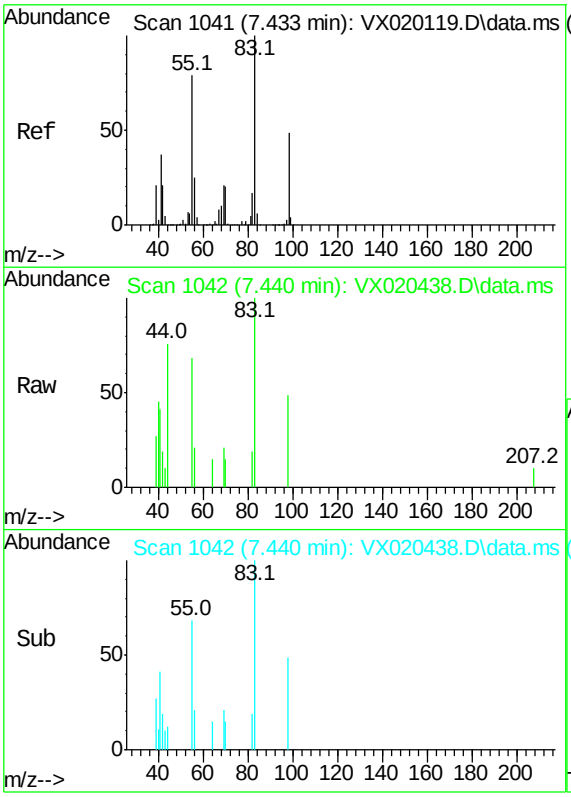


#35
Dibromofluoromethane
Concen: 48.85 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion:113 Resp: 121670

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	21.5	16.7	25.1

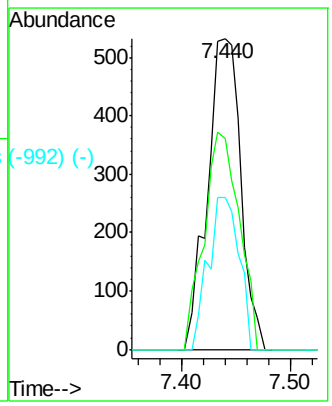




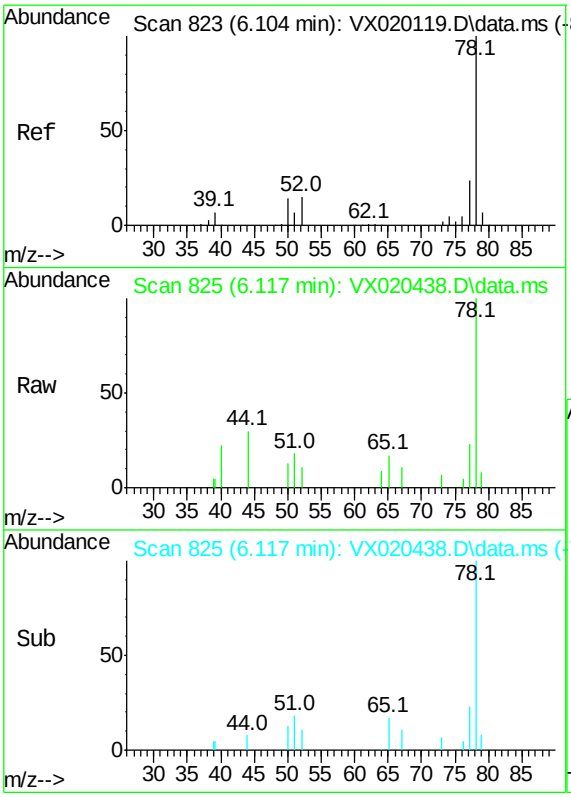
#39
Methylcyclohexane
Concen: 0.25 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.007 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 83 Resp: 1129

Ion	Ratio	Lower	Upper
83	100		
55	67.7	58.9	88.3
98	49.1	38.1	57.1



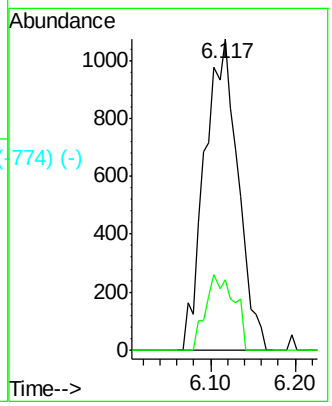
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

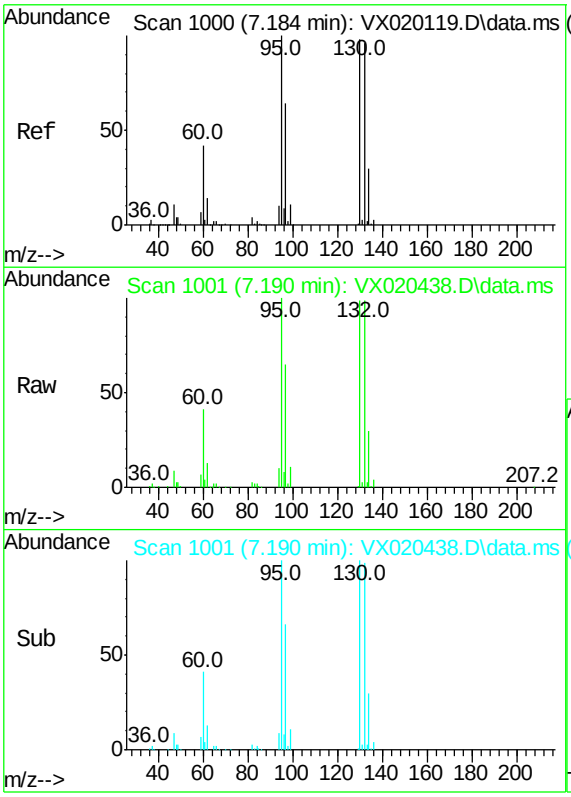


#40
Benzene
Concen: 0.24 ug/l
RT: 6.117 min Scan# 825
Delta R.T. 0.013 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 78 Resp: 2866

Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.9	28.3

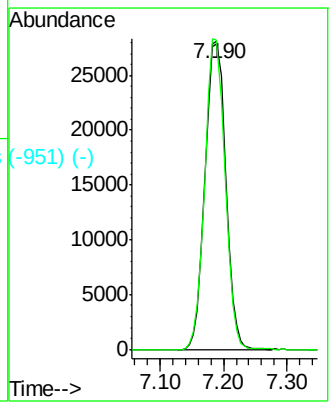




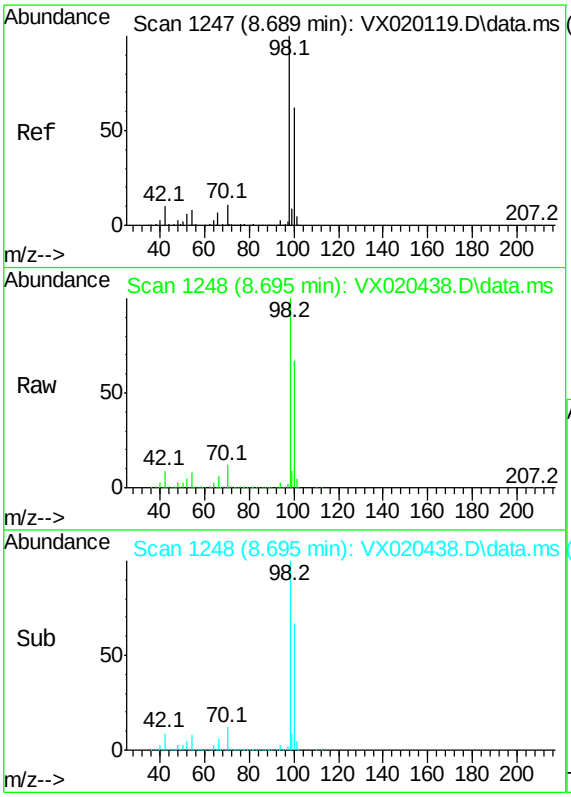
#44
Trichloroethene
Concen: 19.82 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion:130 Resp: 61369

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	198.0



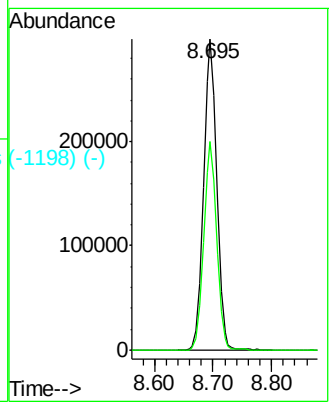
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

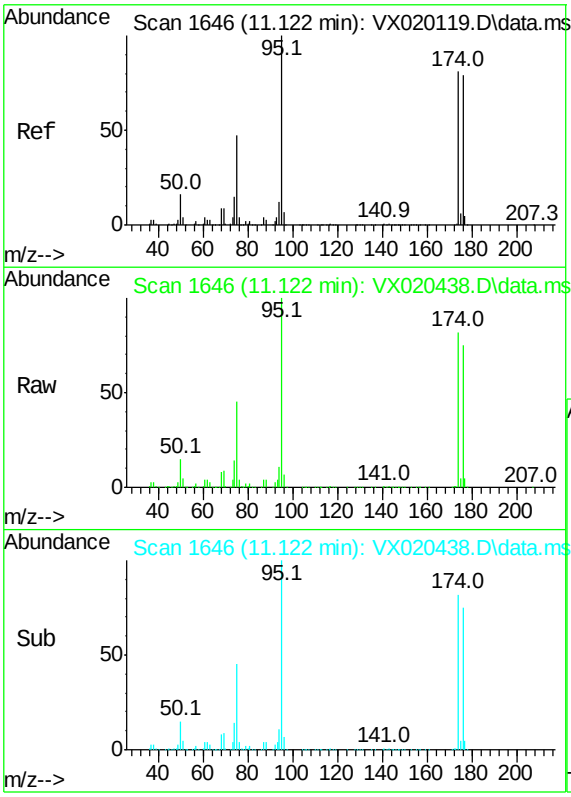


#50
Toluene-d8
Concen: 48.36 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 98 Resp: 463670

Ion	Ratio	Lower	Upper
98	100		
100	66.2	51.9	77.9

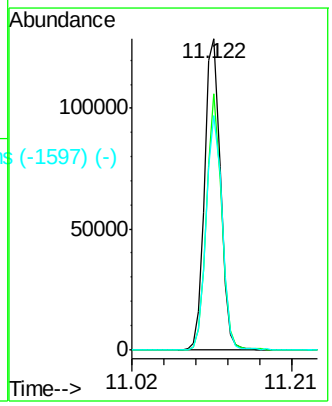




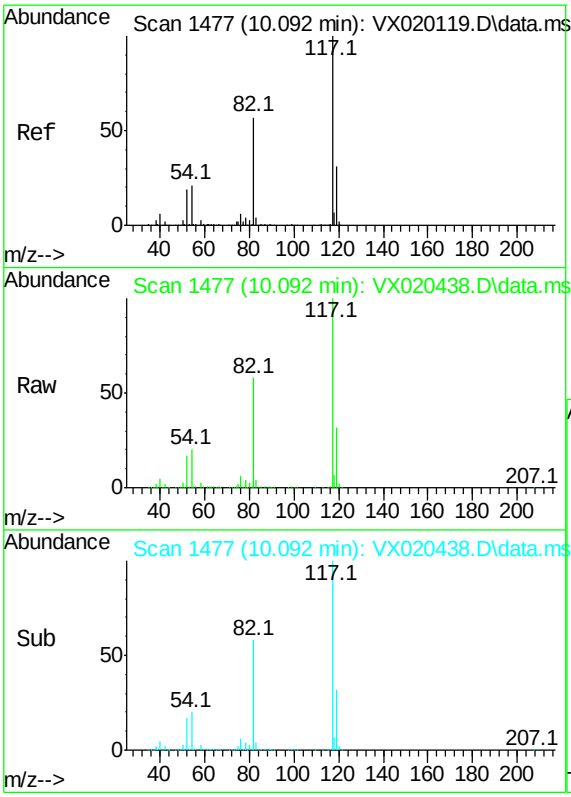
#68
4-Bromofluorobenzene
Concen: 43.59 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion: 95 Resp: 159955

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	154.6
176	75.3	0.0	155.8



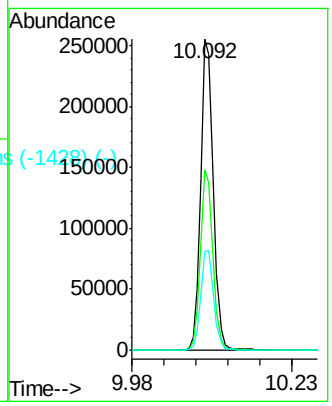
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

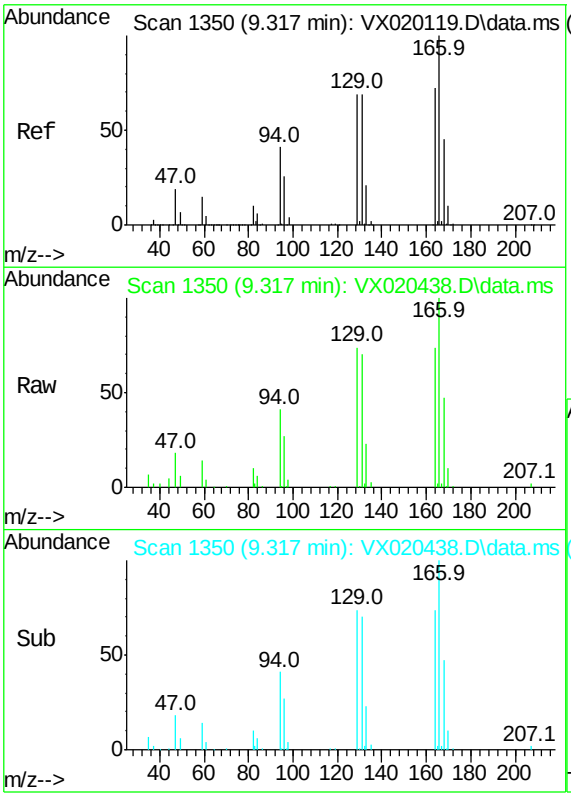


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion:117 Resp: 346068

Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.4	71.2
119	31.7	26.6	39.8

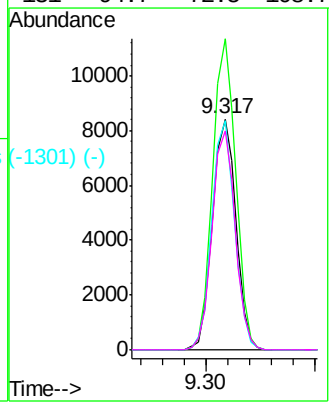




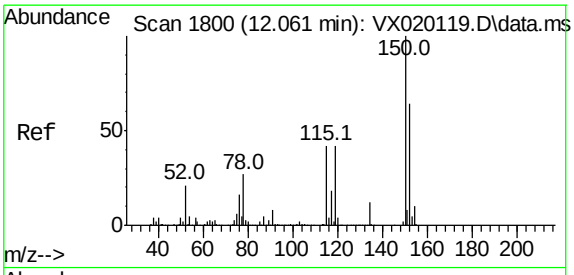
#64
Tetrachloroethene
Concen: 4.79 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion:164 Resp: 12481

Ion	Ratio	Lower	Upper
164	100		
166	135.0	103.4	155.2
129	99.3	70.8	106.2
131	94.7	72.5	108.7



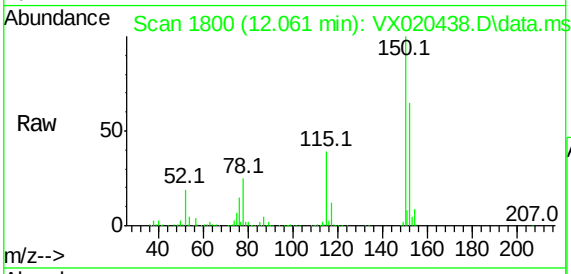
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

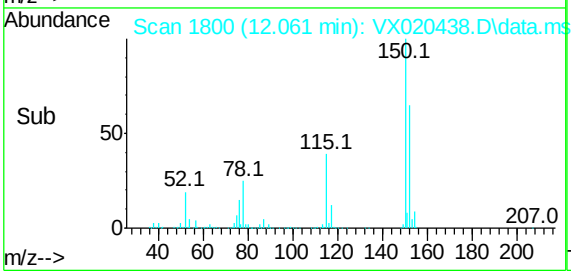


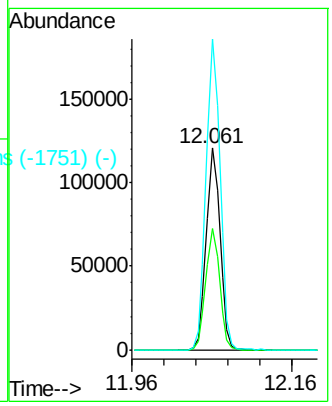
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020438.D
Acq: 29 Dec 2020 16:43

Tgt Ion:152 Resp: 144087

Ion	Ratio	Lower	Upper
152	100		
115	60.3	41.1	123.3
150	156.5	0.0	349.0







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020438.D
Acq On : 29 Dec 2020 16:43
Operator : JC/MD
Sample : L5236-10
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020438.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.288	29	33	41	rVB	17769	18606	1.32%	0.229%
2	1.392	46	50	57	rVV	95046	89755	6.37%	1.104%
3	1.776	108	113	124	rVB	20917	30837	2.19%	0.379%
4	2.581	236	245	254	rBV	11119	21502	1.53%	0.264%
5	3.142	331	337	344	rBV2	9396	17811	1.26%	0.219%
6	4.562	558	570	585	rBV	512793	1408762	100.00%	17.323%
7	5.464	706	718	728	rBV	138248	396056	28.11%	4.870%
8	5.629	735	745	759	rVB2	243402	686463	48.73%	8.441%
9	6.031	800	811	822	rBV	154442	403486	28.64%	4.961%
10	6.830	931	942	956	rBV	376713	879939	62.46%	10.820%
11	7.184	991	1000	1011	rBV	150731	326321	23.16%	4.013%
12	8.695	1241	1248	1257	rBV	767439	1193582	84.73%	14.677%
13	9.317	1343	1350	1357	rVB	63459	92690	6.58%	1.140%
14	10.092	1471	1477	1491	rBV	741520	1004666	71.32%	12.354%
15	11.122	1640	1646	1654	rBV	578220	719592	51.08%	8.848%
16	12.061	1794	1800	1809	rBV	689849	842359	59.79%	10.358%

Sum of corrected areas: 8132427

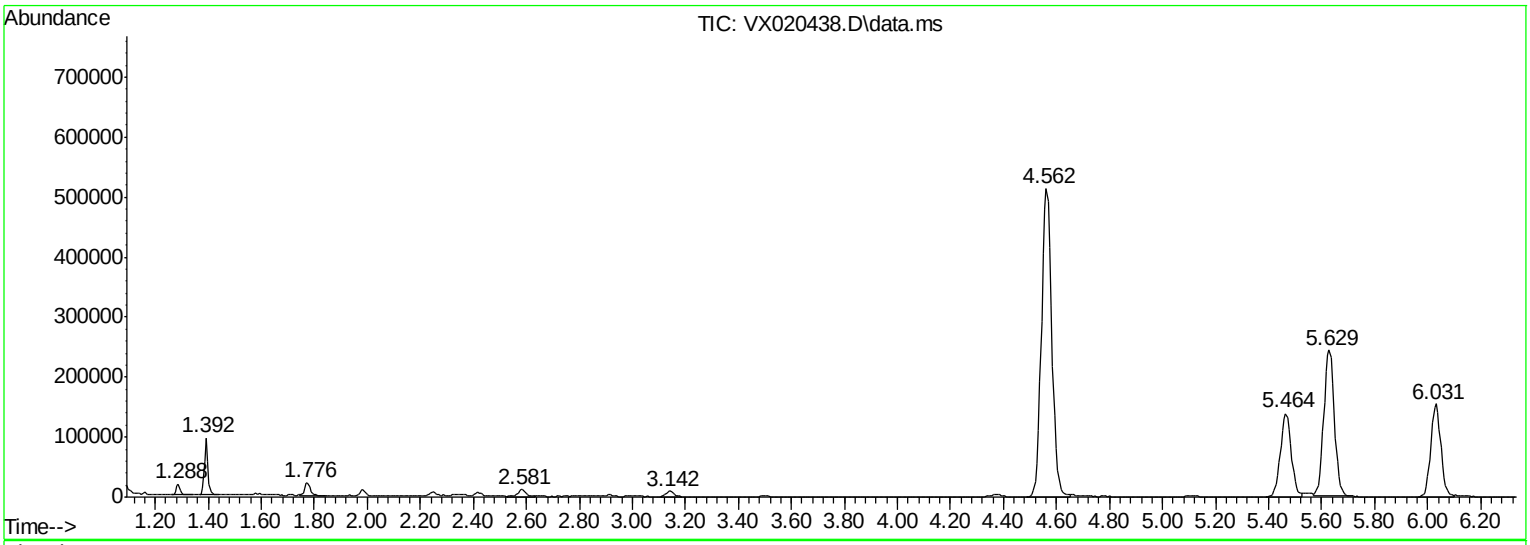
Sample Results: **VX020438.D**

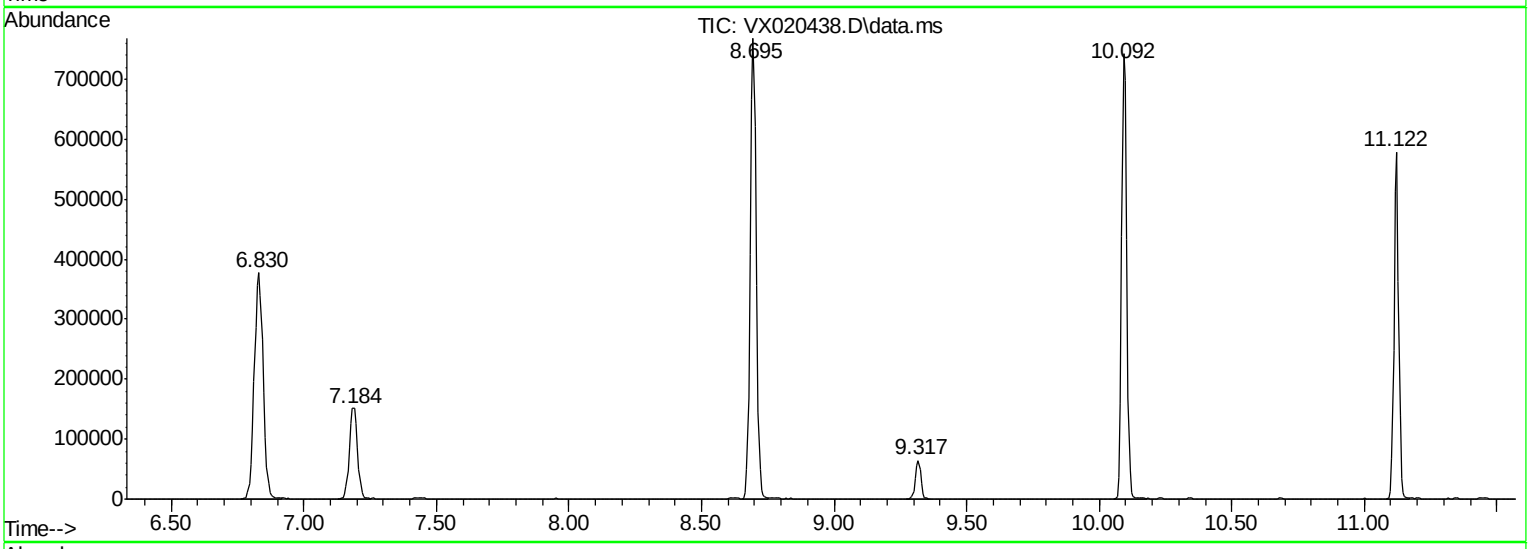
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020438.D
Acq On : 29 Dec 2020 16:43
Operator : JC/MD
Sample : L5236-10
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 18 Sample Multiplier: 1

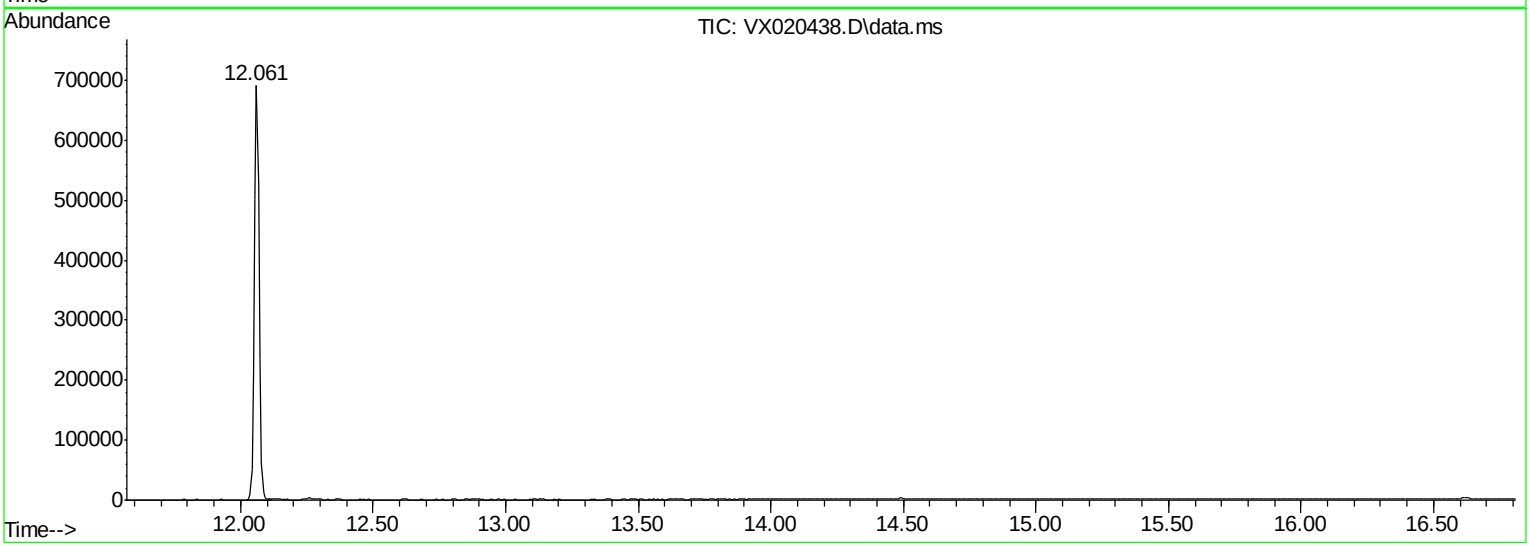
Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020438.D
Acq On : 29 Dec 2020 16:43
Operator : JC/MD
Sample : L5236-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020438.D
Acq On : 29 Dec 2020 16:43
Operator : JC/MD
Sample : L5236-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1022-MW-17A(15.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1023-MW-18(121.5)	SDG No.:	L5236
Lab Sample ID:	L5236-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020439.D	1		12/29/20 17:06	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.10	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.20		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	0.78	J	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1023-MW-18(121.5)	SDG No.:	L5236
Lab Sample ID:	L5236-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020439.D	1		12/29/20 17:06	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	2.70		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.0		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.0		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		83 - 123	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	239000	5.629			
540-36-3	1,4-Difluorobenzene	390000	6.83			
3114-55-4	Chlorobenzene-d5	357000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	148000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1023-MW-18(121.5)	SDG No.:	L5236
Lab Sample ID:	L5236-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020439.D	1		12/29/20 17:06	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020439.D
Acq On : 29 Dec 2020 17:06
Operator : JC/MD
Sample : L5236-11
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

Quant Time: Dec 30 02:38:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

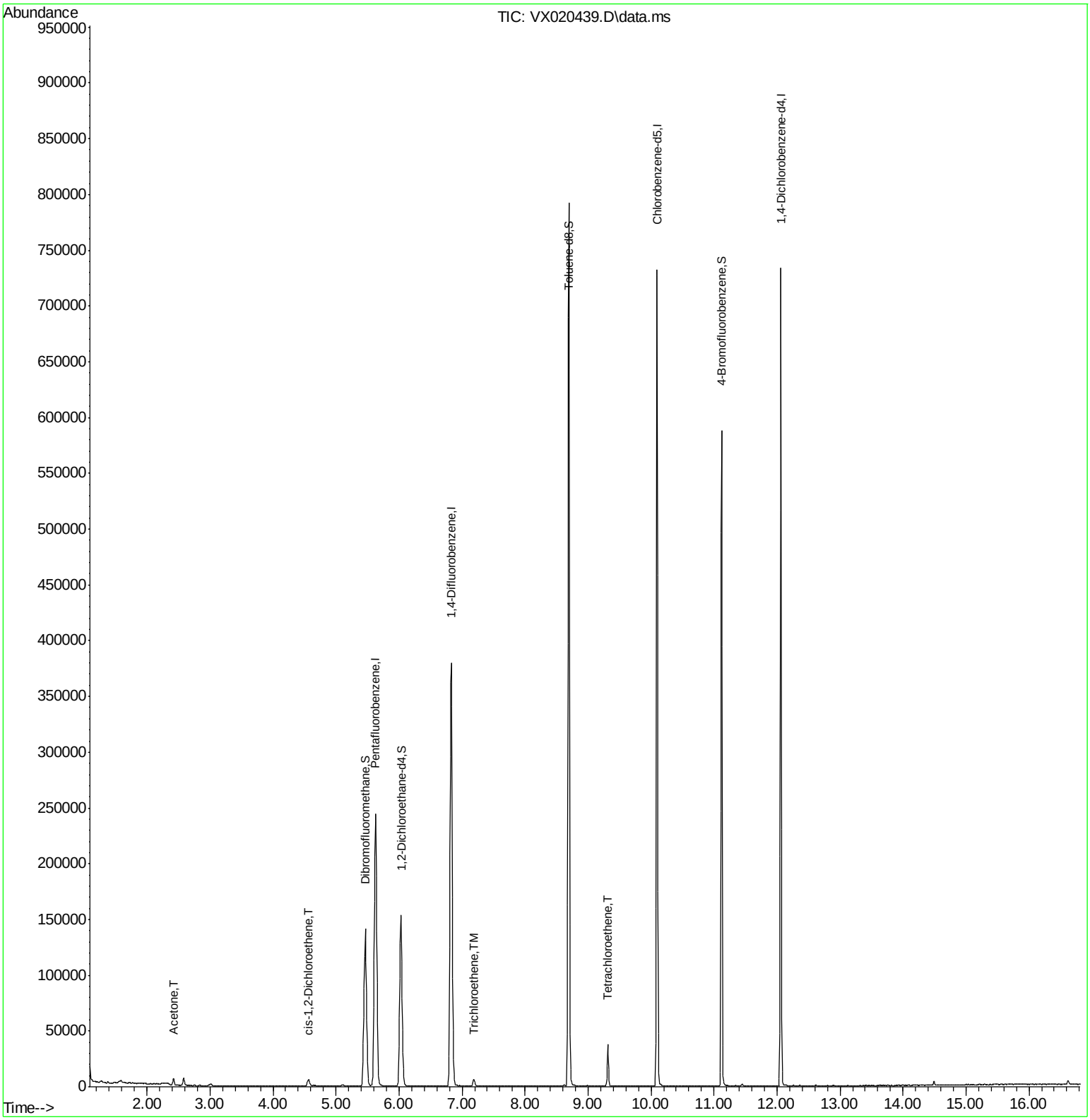
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	239358	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	390358	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	357313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	147630	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	144505	45.04	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 90.08%			
35) Dibromofluoromethane	5.464	113	123126	49.31	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.62%			
50) Toluene-d8	8.695	98	471152	49.02	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.04%			
62) 4-Bromofluorobenzene	11.122	95	163059	44.32	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 88.64%			
Target Compounds						Qvalue
16) Acetone	2.422	43	5995	4.10	ug/l	99
27) cis-1,2-Dichloroethene	4.562	96	3936	1.18	ug/l	89
44) Trichloroethene	7.190	130	2421	0.78	ug/l	97
64) Tetrachloroethene	9.317	164	7298	2.71	ug/l	93

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

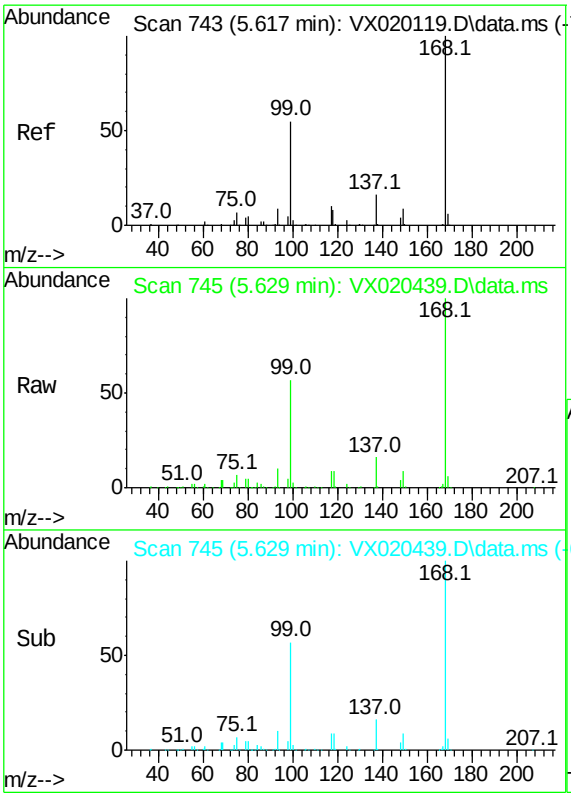
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020439.D
Acq On : 29 Dec 2020 17:06
Operator : JC/MD
Sample : L5236-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

Quant Time: Dec 30 02:38:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



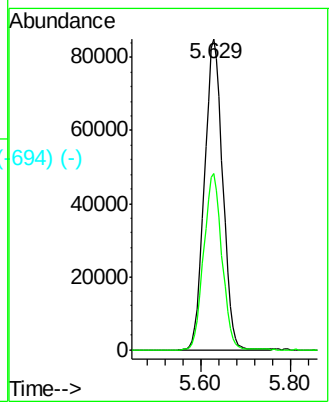
Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

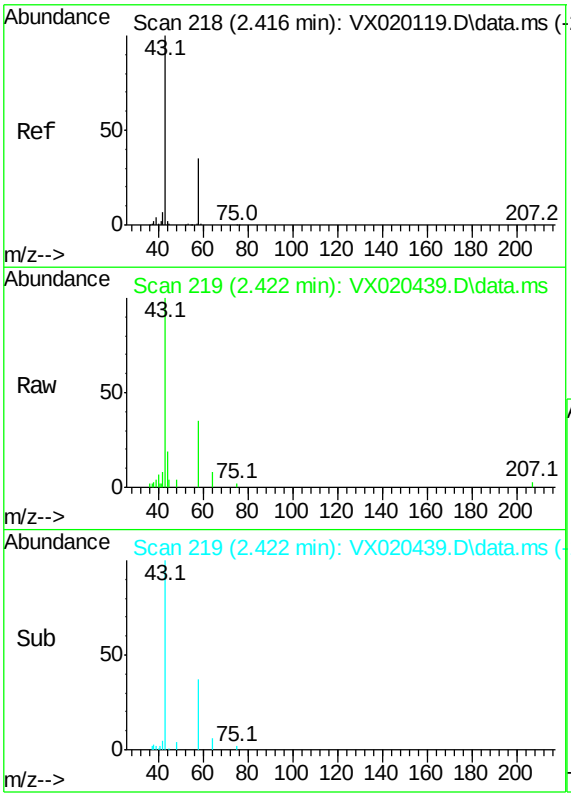


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion:168 Resp: 239358

Ion	Ratio	Lower	Upper
168	100		
99	56.6	45.8	68.6

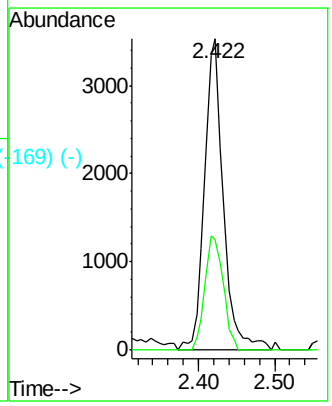




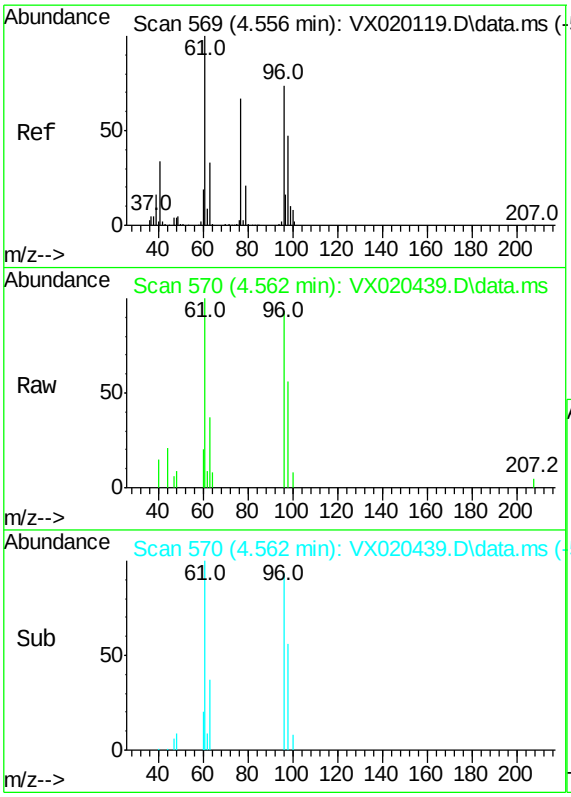
#16
Acetone
Concen: 4.10 ug/l
RT: 2.422 min Scan# 219
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion: 43 Resp: 5995

Ion	Ratio	Lower	Upper
43	100		
58	35.4	27.8	41.8



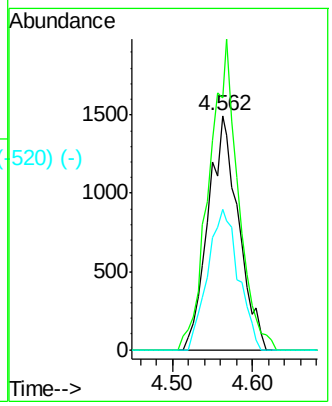
Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

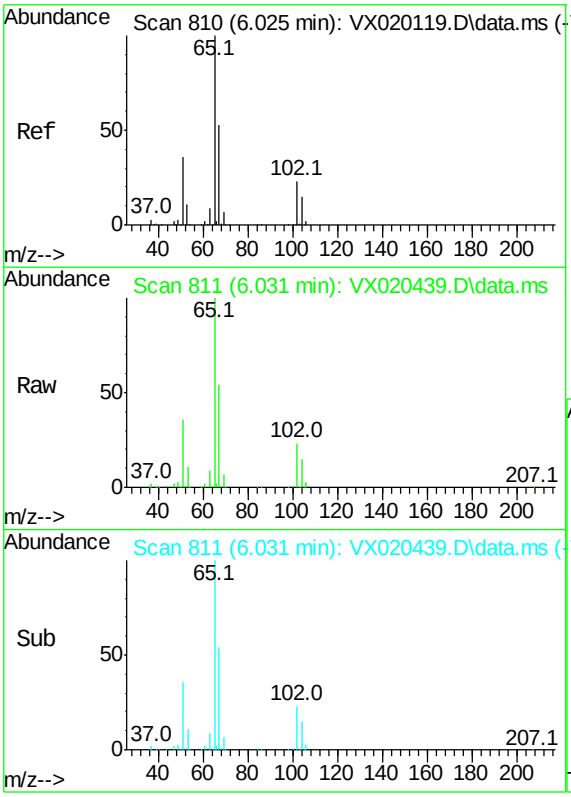


#27
cis-1,2-Dichloroethene
Concen: 1.18 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion: 96 Resp: 3936

Ion	Ratio	Lower	Upper
96	100		
61	126.9	0.0	285.6
98	60.7	0.0	129.6

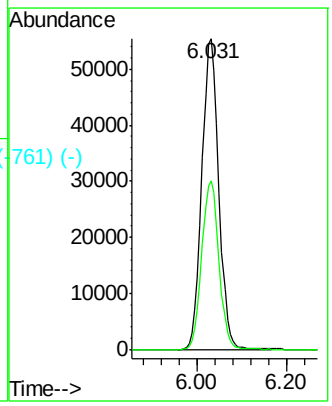




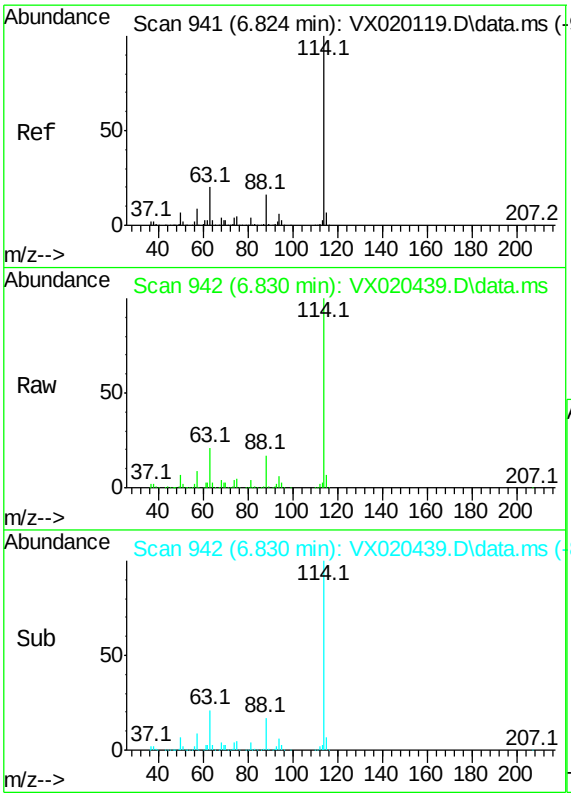
#33
1,2-Dichloroethane-d4
Concen: 45.04 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion: 65 Resp: 144505

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	105.4



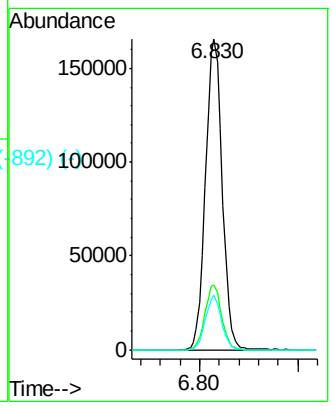
Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

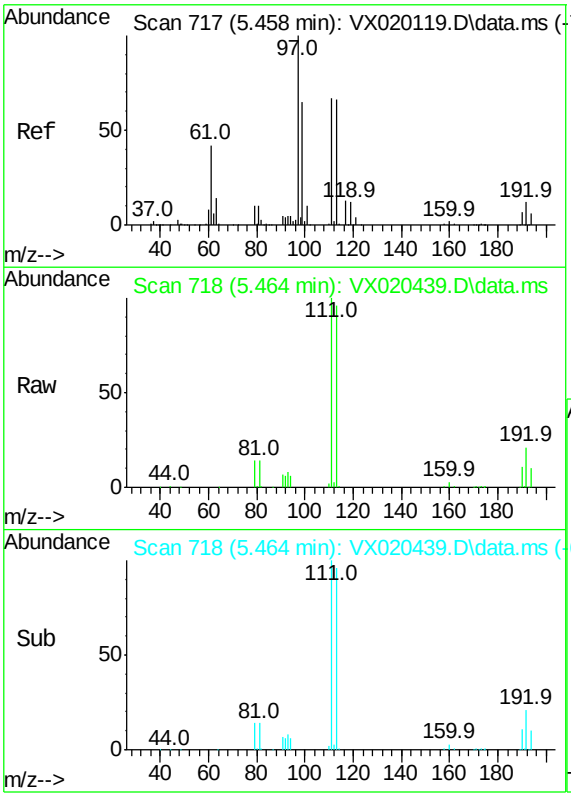


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion:114 Resp: 390358

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.8
88	17.5	0.0	32.8

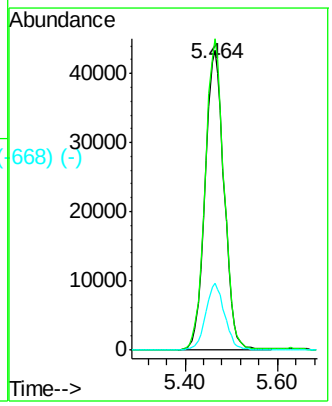




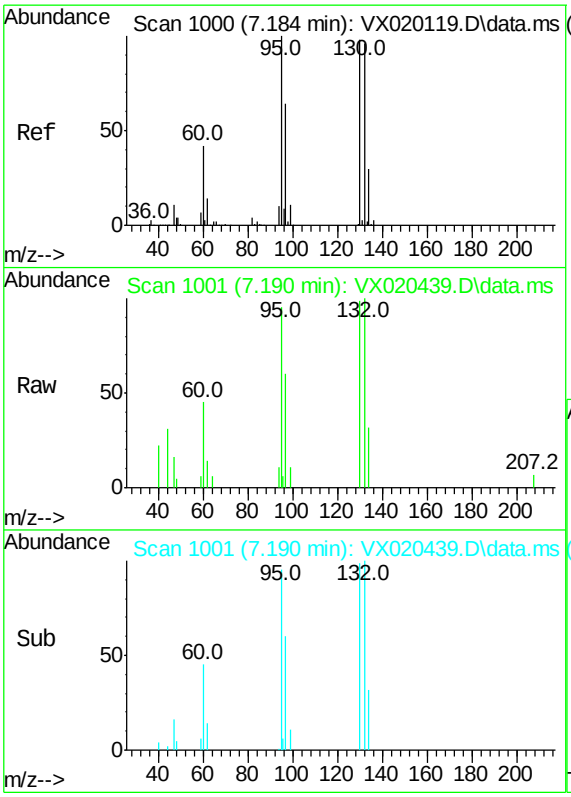
#35
Dibromofluoromethane
Concen: 49.31 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion:113 Resp: 123126

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	21.7	16.7	25.1



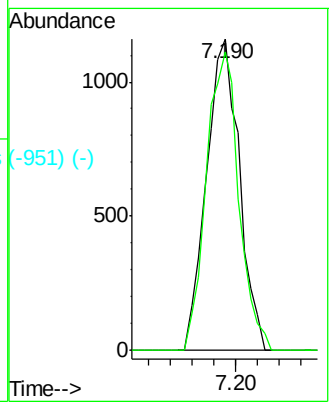
Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

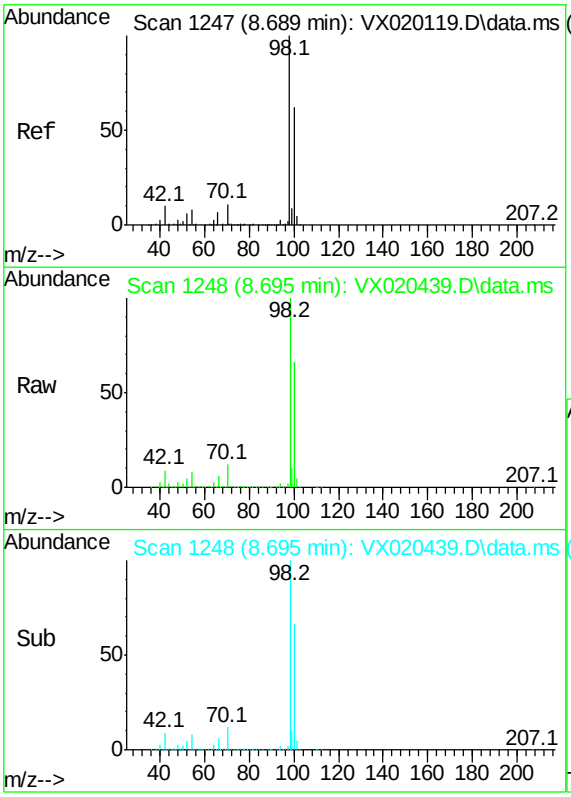


#44
Trichloroethene
Concen: 0.78 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion:130 Resp: 2421

Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	198.0

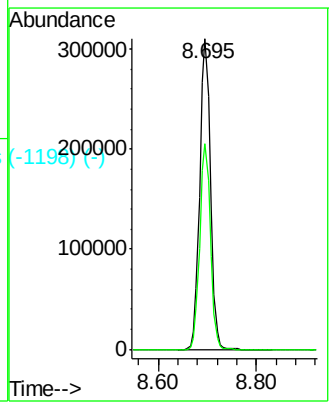




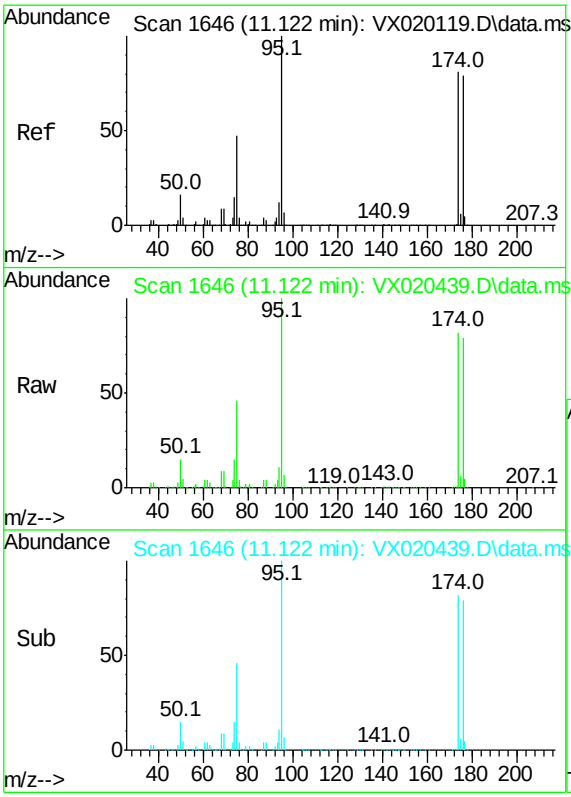
#50
Toluene-d8
Concen: 49.02 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion: 98 Resp: 471152

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.9	77.9



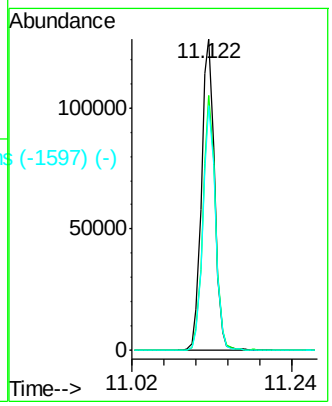
Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

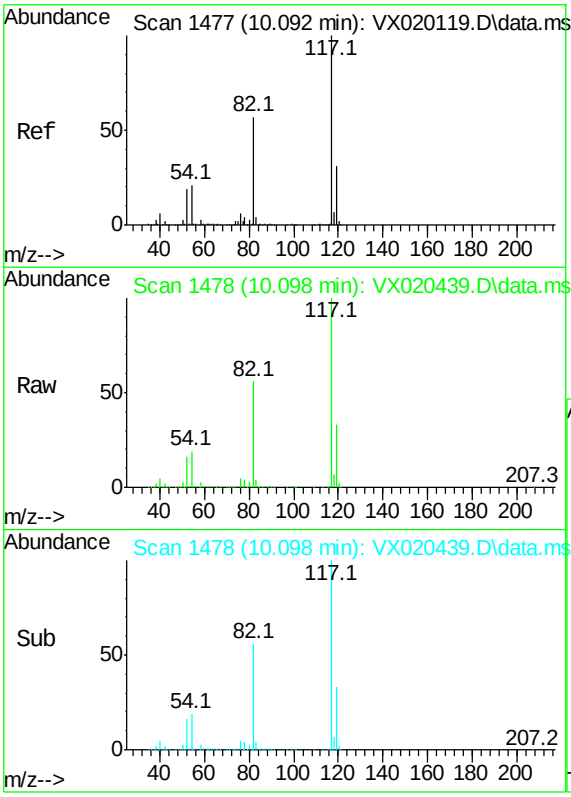


#62
4-Bromofluorobenzene
Concen: 44.32 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion: 95 Resp: 163059

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	154.6
176	75.2	0.0	155.8

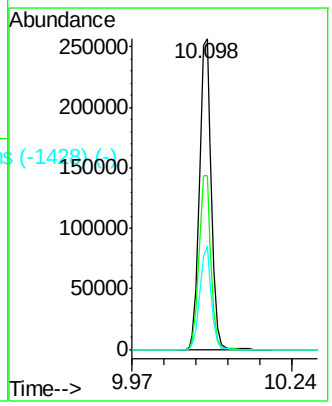




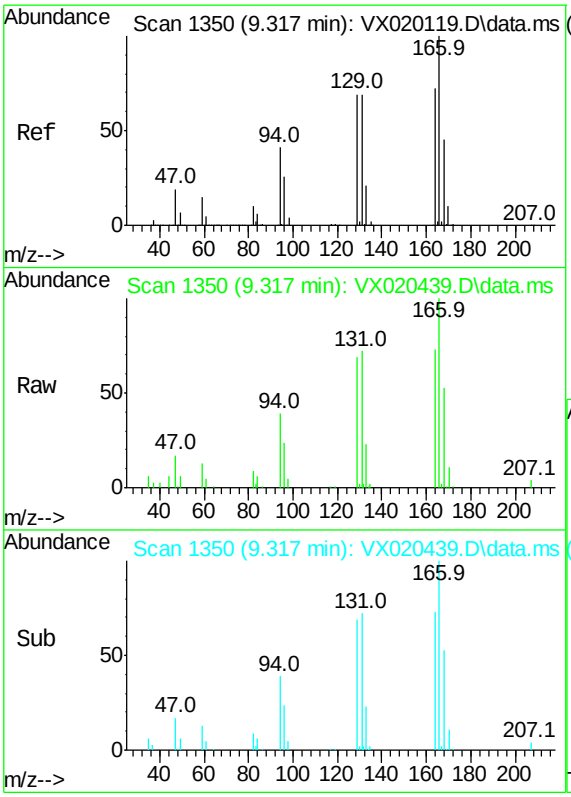
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion:117 Resp: 357313

Ion	Ratio	Lower	Upper
117	100		
82	55.9	47.4	71.2
119	33.3	26.6	39.8



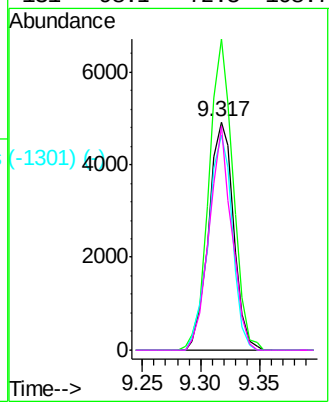
Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

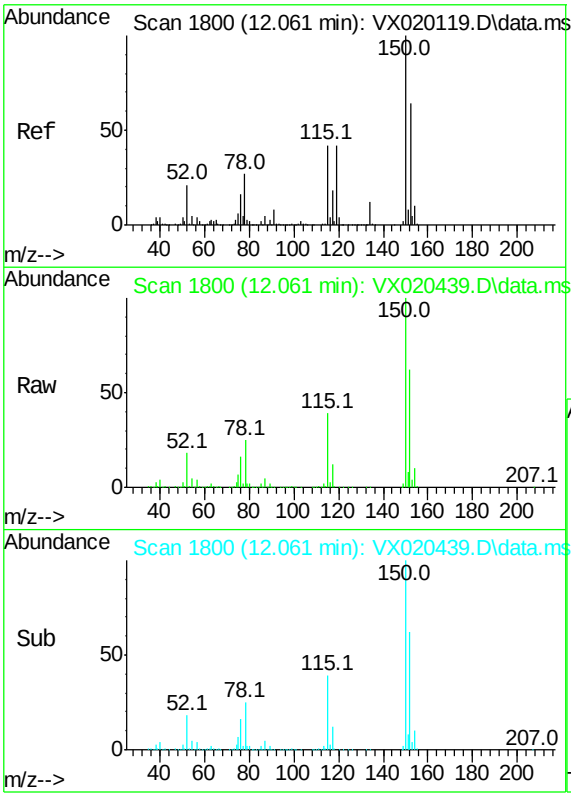


#64
Tetrachloroethene
Concen: 2.71 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion:164 Resp: 7298

Ion	Ratio	Lower	Upper
164	100		
166	136.3	103.4	155.2
129	94.2	70.8	106.2
131	98.1	72.5	108.7

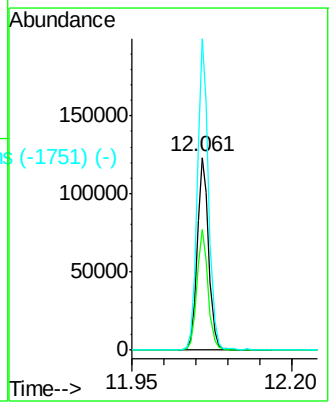




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020439.D
Acq: 29 Dec 2020 17:06

Tgt Ion:152 Resp: 147630

Ion	Ratio	Lower	Upper
152	100		
115	60.8	41.1	123.3
150	159.0	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020439.D
Acq On : 29 Dec 2020 17:06
Operator : JC/MD
Sample : L5236-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020439.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.562	561	570	579	rBV3	5473	14924	1.23%	0.237%
2	5.464	706	718	732	rBV	140943	398218	32.89%	6.326%
3	5.629	732	745	760	rVV	243793	683270	56.43%	10.854%
4	6.031	800	811	828	rBV	152951	404252	33.38%	6.422%
5	6.830	932	942	959	rBV	379494	890752	73.56%	14.150%
6	7.190	992	1001	1011	rBV3	6008	13281	1.10%	0.211%
7	8.695	1241	1248	1259	rBV	791861	1210905	100.00%	19.235%
8	9.317	1345	1350	1356	rBV	37152	52771	4.36%	0.838%
9	10.098	1472	1478	1492	rVB	731663	1023990	84.56%	16.266%
10	11.122	1640	1646	1654	rBV	587680	734521	60.66%	11.668%
11	12.061	1795	1800	1809	rBV	733182	868338	71.71%	13.794%

Sum of corrected areas: 6295222

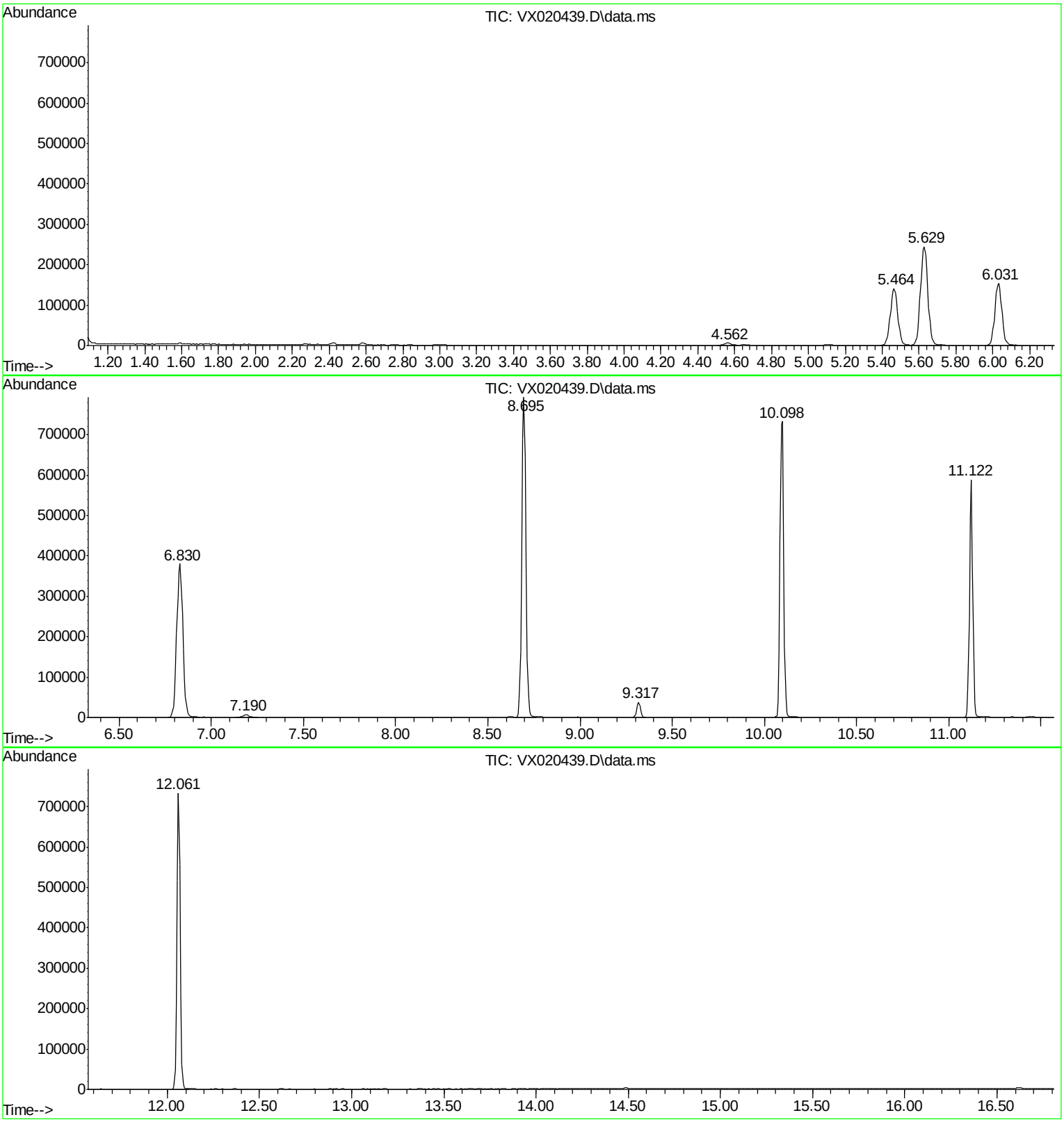
Sample Results: **VX020439.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020439.D
Acq On : 29 Dec 2020 17:06
Operator : JC/MD
Sample : L5236-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020439.D
Acq On : 29 Dec 2020 17:06
Operator : JC/MD
Sample : L5236-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020439.D
Acq On : 29 Dec 2020 17:06
Operator : JC/MD
Sample : L5236-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1023-MW-18(21.5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1024-MW-19(28)	SDG No.:	L5236
Lab Sample ID:	L5236-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020440.D	1		12/29/20 17:30	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.30	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2.00		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	2.30		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1024-MW-19(28)	SDG No.:	L5236
Lab Sample ID:	L5236-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020440.D	1		12/29/20 17:30	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	2.00		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.1		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.3		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	242000	5.629			
540-36-3	1,4-Difluorobenzene	396000	6.83			
3114-55-4	Chlorobenzene-d5	372000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	159000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1024-MW-19(28)	SDG No.:	L5236
Lab Sample ID:	L5236-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020440.D	1		12/29/20 17:30	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020440.D
Acq On : 29 Dec 2020 17:30
Operator : JC/MD
Sample : L5236-12
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

Quant Time: Dec 30 02:38:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820w.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

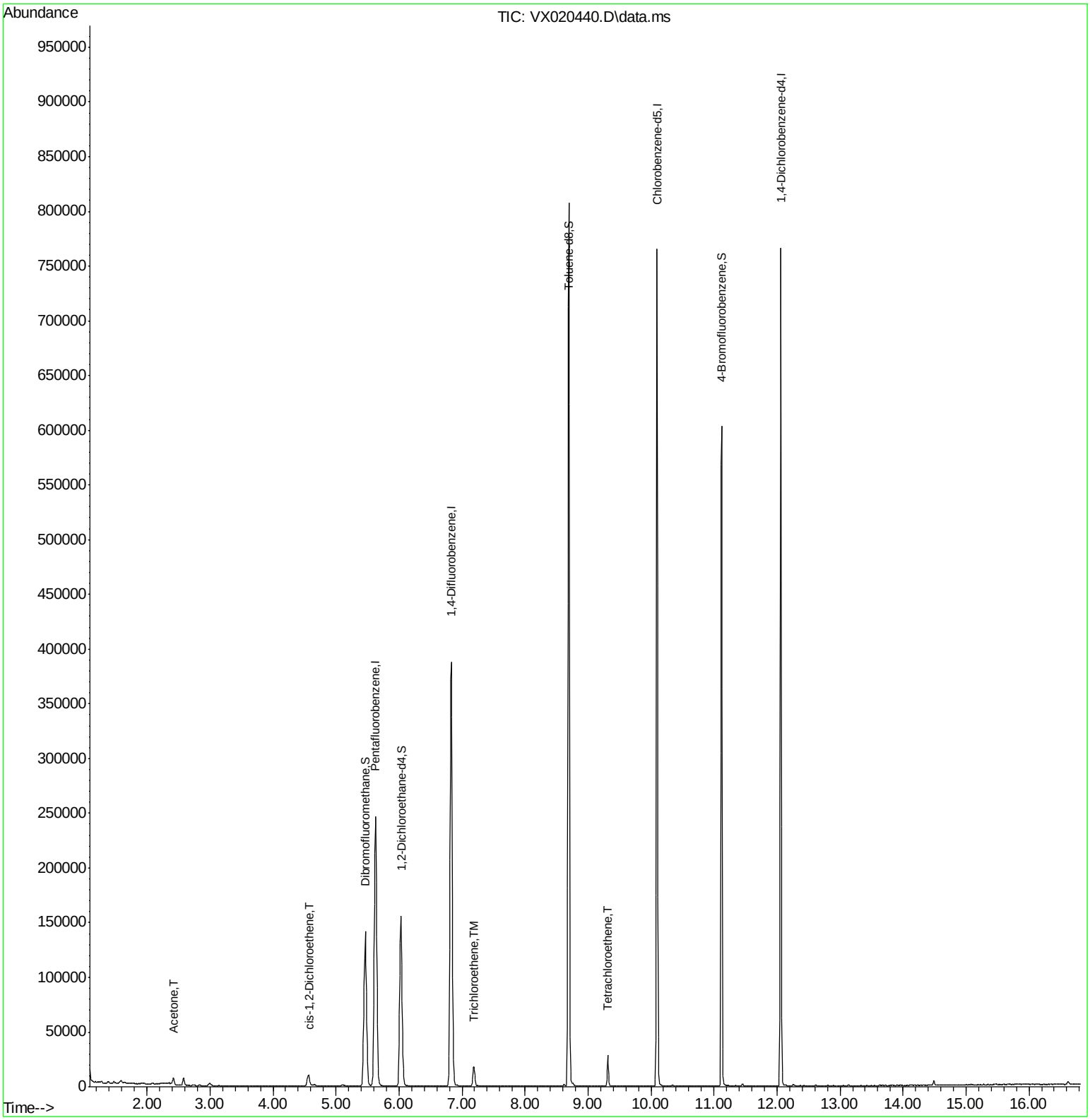
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	242331	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	396094	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	371823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	158824	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	146394	45.07	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 90.14%			
35) Dibromofluoromethane	5.465	113	125328	49.46	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.92%			
50) Toluene-d8	8.696	98	480436	49.26	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.52%			
62) 4-Bromofluorobenzene	11.122	95	170850	45.77	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 91.54%			
Target Compounds						Qvalue
16) Acetone	2.416	43	6426	4.34	ug/l	98
27) cis-1,2-Dichloroethene	4.568	96	6862	2.02	ug/l	89
44) Trichloroethene	7.184	130	7160	2.27	ug/l	92
64) Tetrachloroethene	9.317	164	5584	1.99	ug/l	97

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

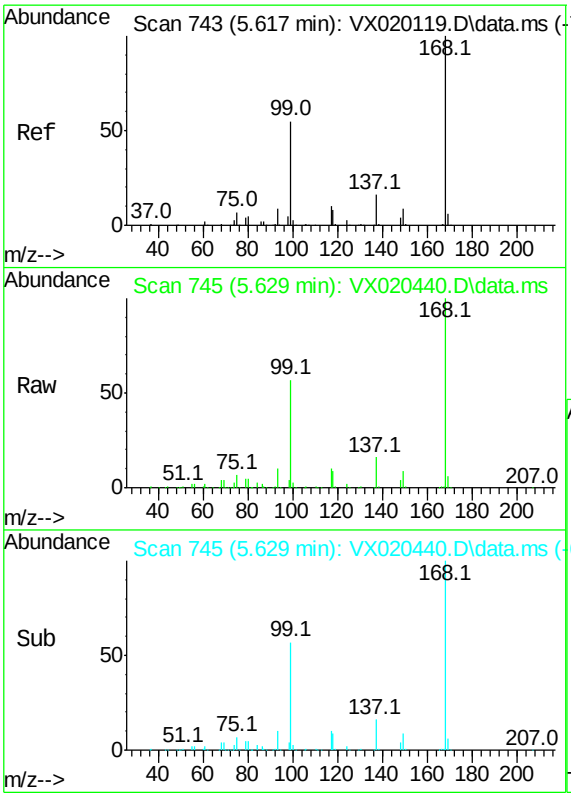
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020440.D
Acq On : 29 Dec 2020 17:30
Operator : JC/MD
Sample : L5236-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

Quant Time: Dec 30 02:38:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



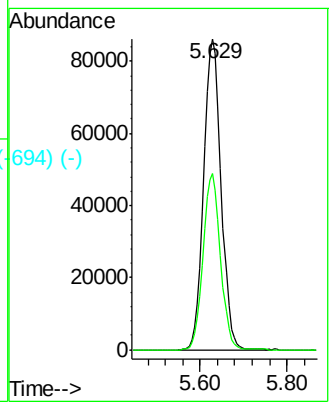
Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

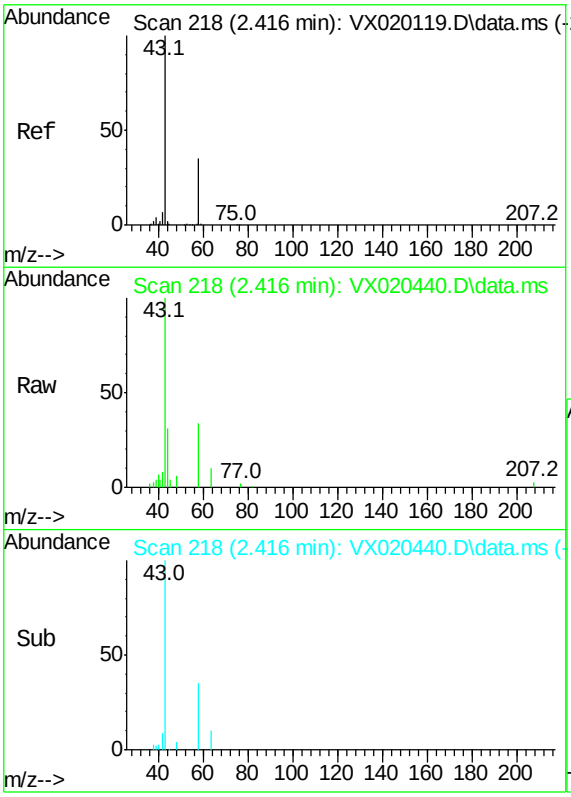


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion:168 Resp: 242331

Ion	Ratio	Lower	Upper
168	100		
99	56.7	45.8	68.6

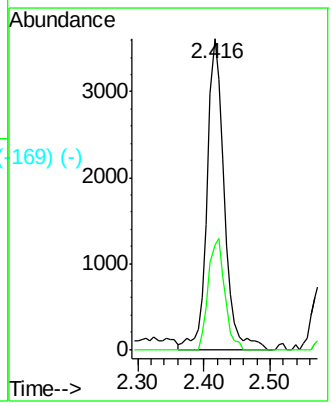




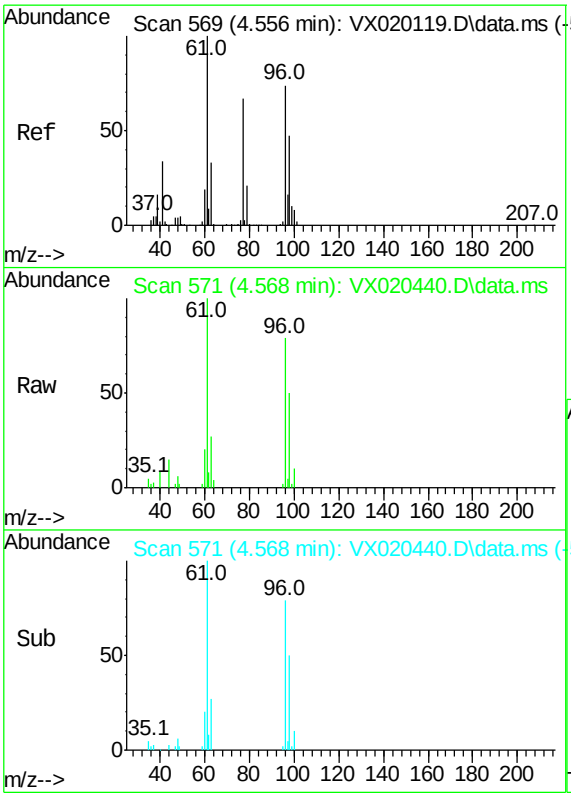
#16
Acetone
Concen: 4.34 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion: 43 Resp: 6426

Ion	Ratio	Lower	Upper
43	100		
58	33.5	27.8	41.8



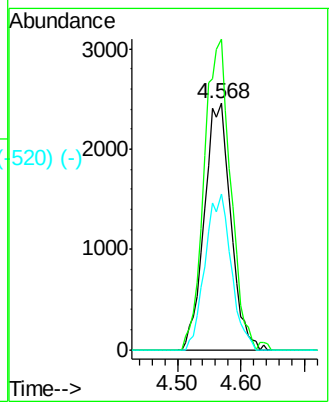
Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

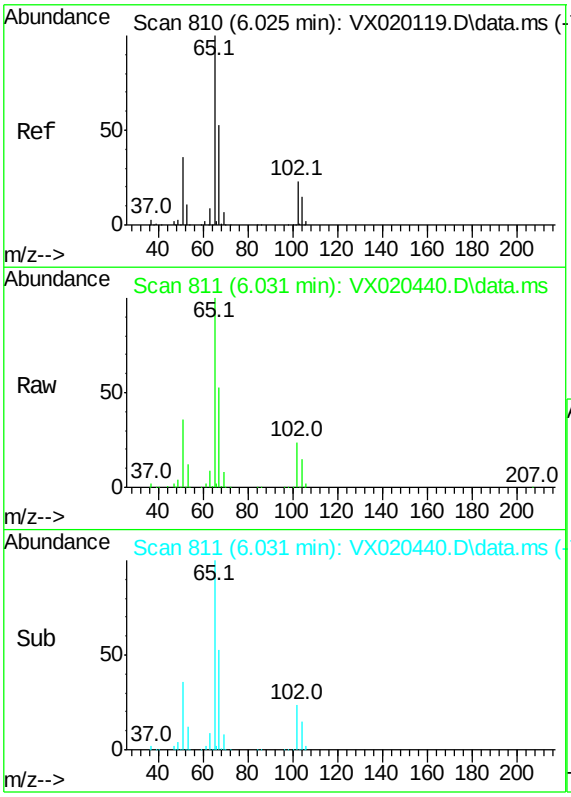


#27 (-)
cis-1,2-Dichloroethene
Concen: 2.02 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.012 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion: 96 Resp: 6862

Ion	Ratio	Lower	Upper
96	100		
61	125.8	0.0	285.6
98	62.3	0.0	129.6

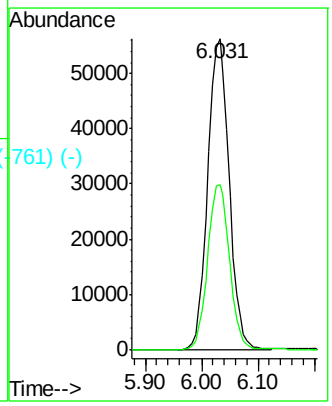




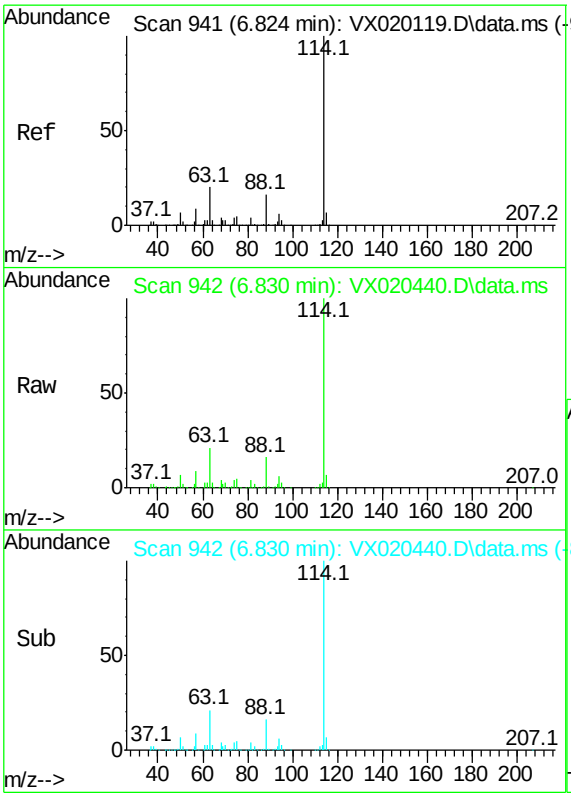
#33 (-)
1,2-Dichloroethane-d4
Concen: 45.07 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion: 65 Resp: 146394

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.4



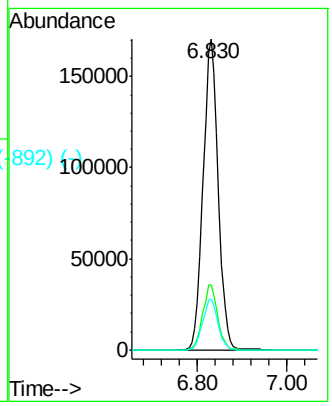
Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

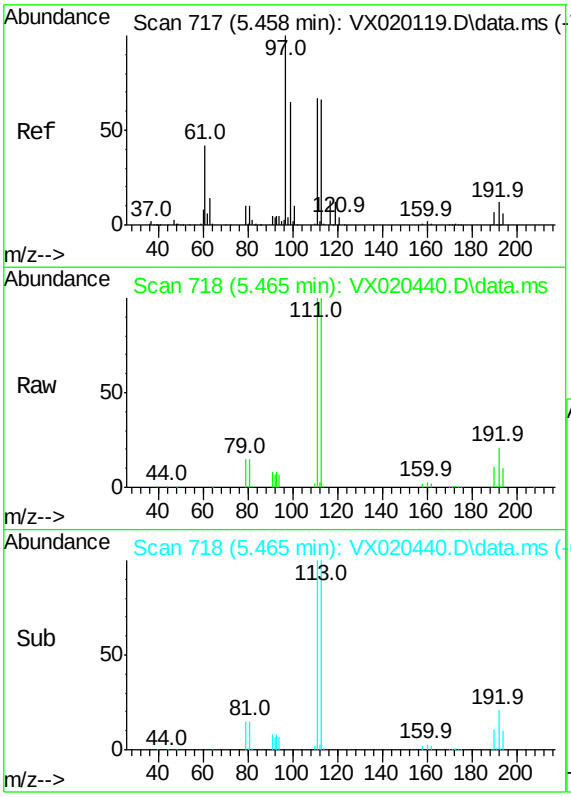


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion:114 Resp: 396094

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.8
88	16.5	0.0	32.8

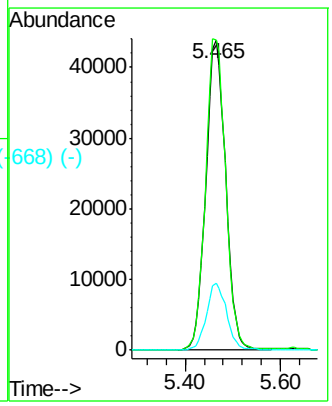




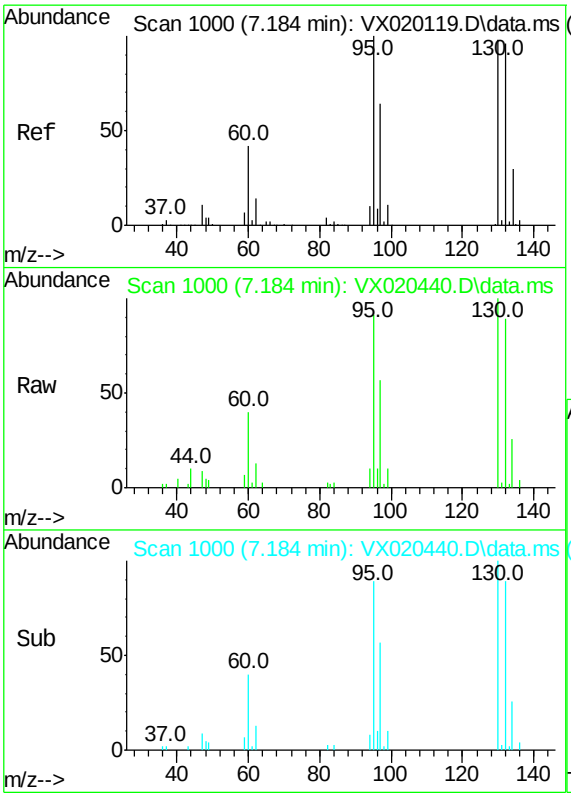
#35
Dibromofluoromethane
Concen: 49.46 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.007 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion:113 Resp: 125328

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	21.4	16.7	25.1



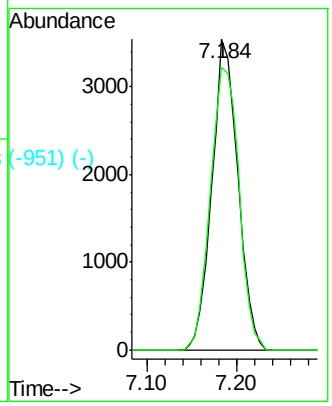
Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

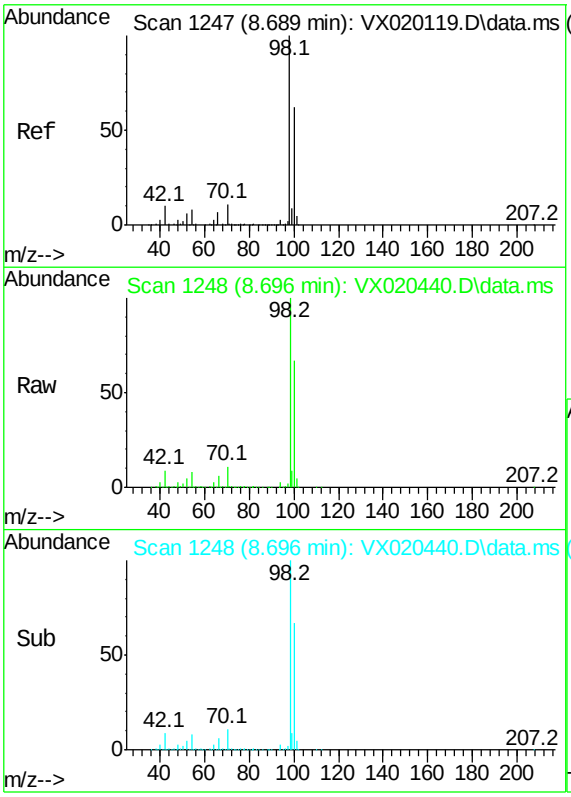


#44
Trichloroethene
Concen: 2.27 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion:130 Resp: 7160

Ion	Ratio	Lower	Upper
130	100		
95	91.1	0.0	198.0

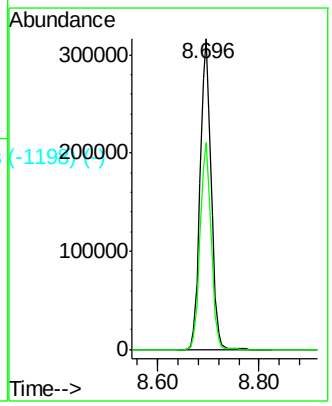




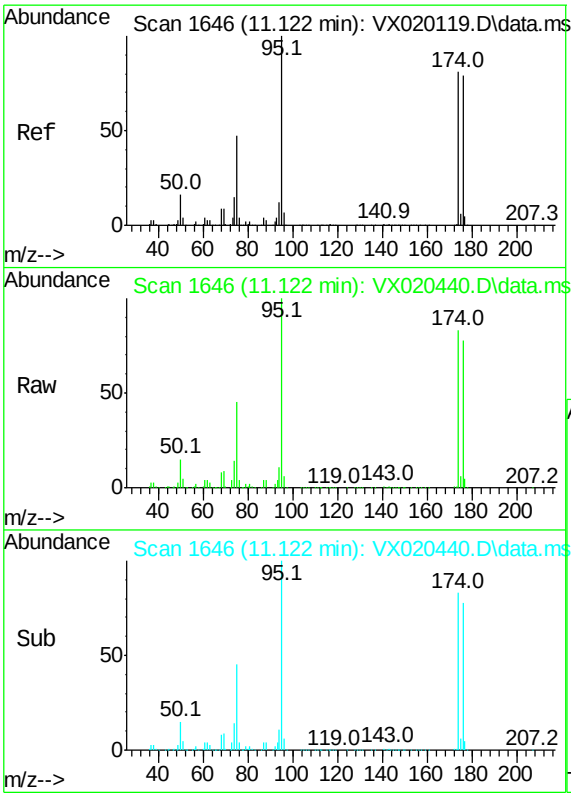
#50
Toluene-d8
Concen: 49.26 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion: 98 Resp: 480436

Ion	Ratio	Lower	Upper
98	100		
100	66.8	51.9	77.9



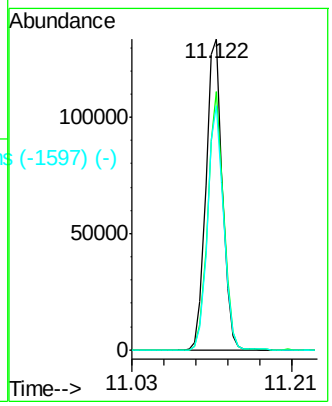
Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

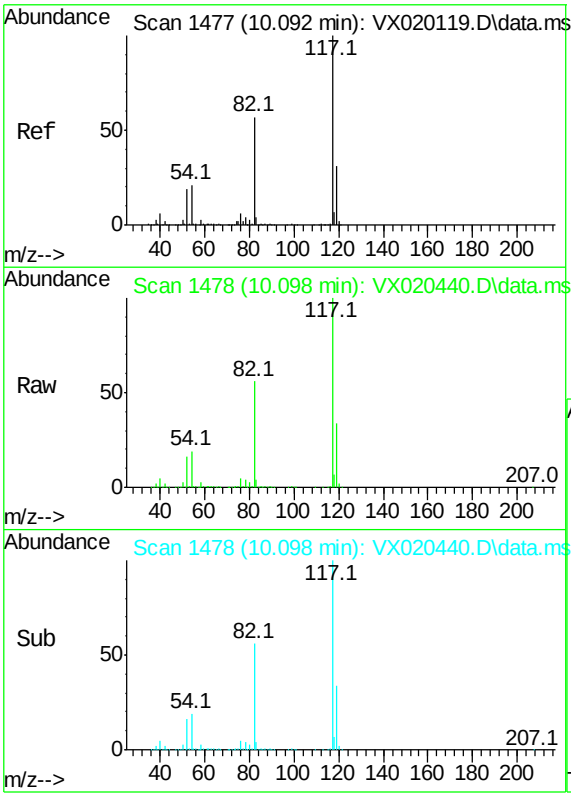


#62
4-Bromofluorobenzene
Concen: 45.77 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion: 95 Resp: 170850

Ion	Ratio	Lower	Upper
95	100		
174	79.8	0.0	154.6
176	76.6	0.0	155.8

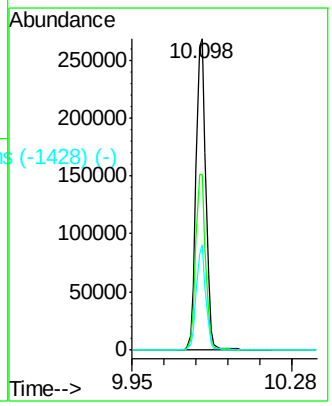




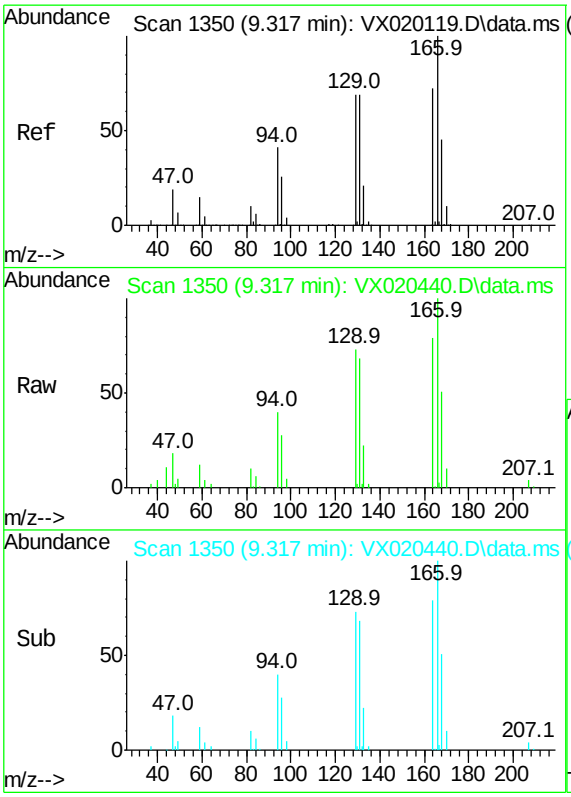
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion:117 Resp: 371823

Ion	Ratio	Lower	Upper
117	100		
82	56.1	47.4	71.2
119	33.5	26.6	39.8



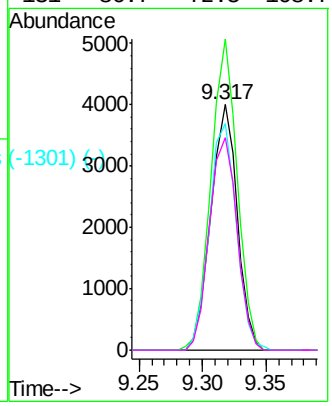
Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

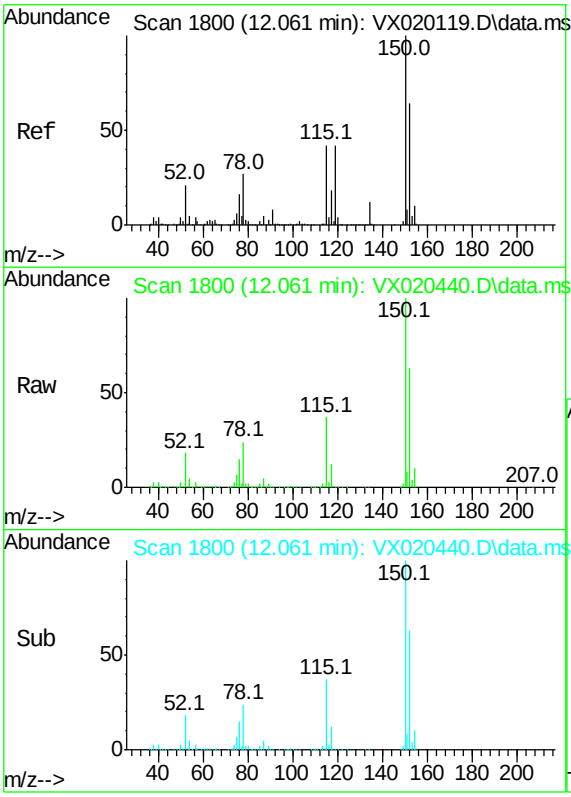


#64
Tetrachloroethene
Concen: 1.99 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion:164 Resp: 5584

Ion	Ratio	Lower	Upper
164	100		
166	126.7	103.4	155.2
129	92.2	70.8	106.2
131	86.7	72.5	108.7

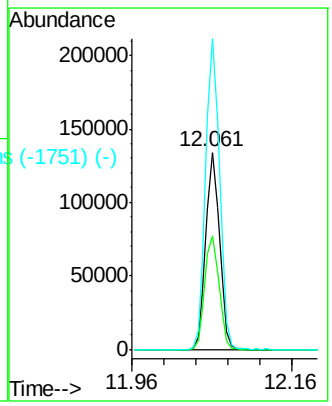




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020440.D
Acq: 29 Dec 2020 17:30

Tgt Ion:152 Resp: 158824

Ion	Ratio	Lower	Upper
152	100		
115	59.6	41.1	123.3
150	159.5	0.0	349.0



Sample Results: **VX020440.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020440.D
Acq On : 29 Dec 2020 17:30
Operator : JC/MD
Sample : L5236-12
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020440.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.568	561	571	579	rBV3	10241	27701	2.24%	0.424%
2	5.465	704	718	733	rBV	141872	406696	32.94%	6.229%
3	5.629	733	745	760	rVV	246113	690430	55.92%	10.574%
4	6.031	798	811	823	rBV	155776	408853	33.11%	6.262%
5	6.830	931	942	958	rBV	387761	901368	73.00%	13.805%
6	7.184	992	1000	1009	rBV	17598	38538	3.12%	0.590%
7	8.696	1241	1248	1256	rBV	807047	1234699	100.00%	18.910%
8	9.317	1344	1350	1358	rVB	27930	40209	3.26%	0.616%
9	10.098	1471	1478	1495	rBV	764577	1068664	86.55%	16.367%
10	11.122	1640	1646	1662	rBV	602904	778596	63.06%	11.924%
11	12.061	1795	1800	1808	rBV	765580	933743	75.63%	14.300%

Sum of corrected areas: 6529497

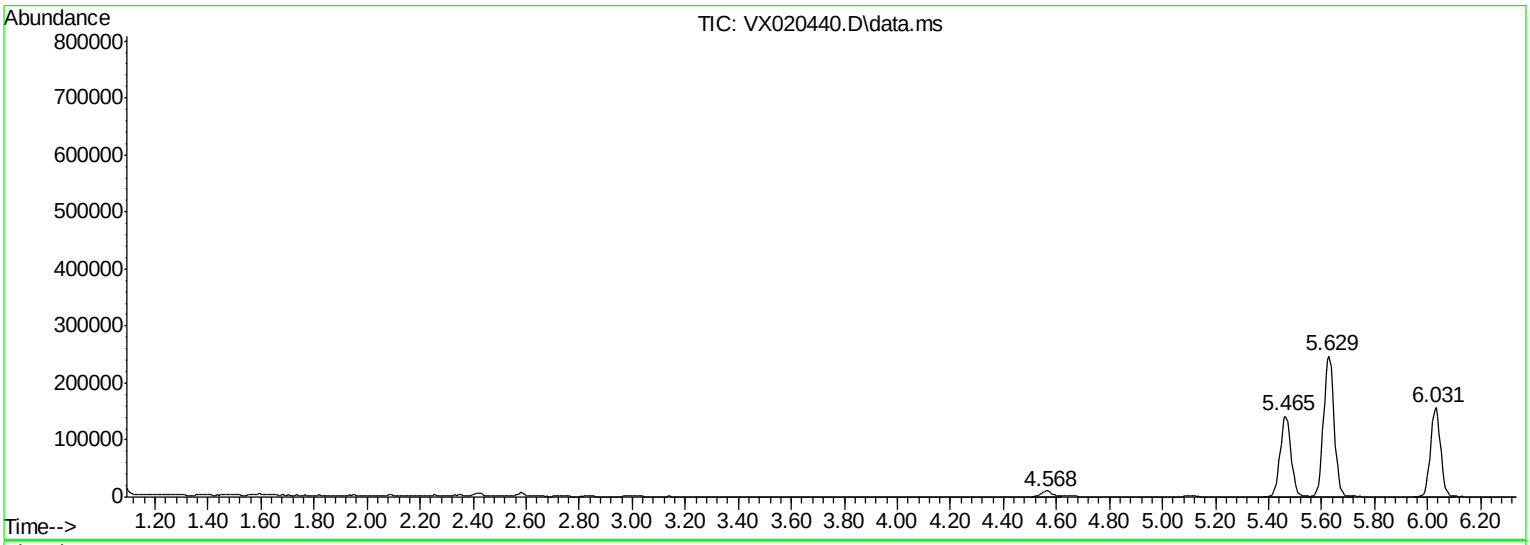
Sample Results: **VX020440.D**

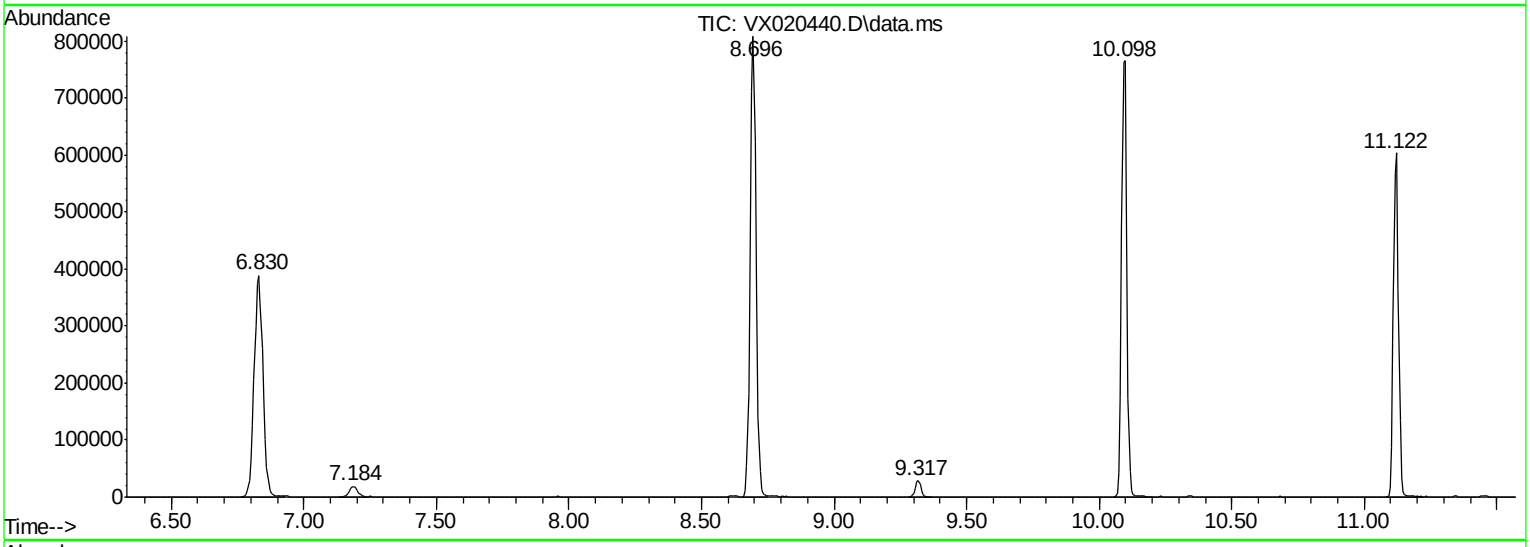
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020440.D
Acq On : 29 Dec 2020 17:30
Operator : JC/MD
Sample : L5236-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

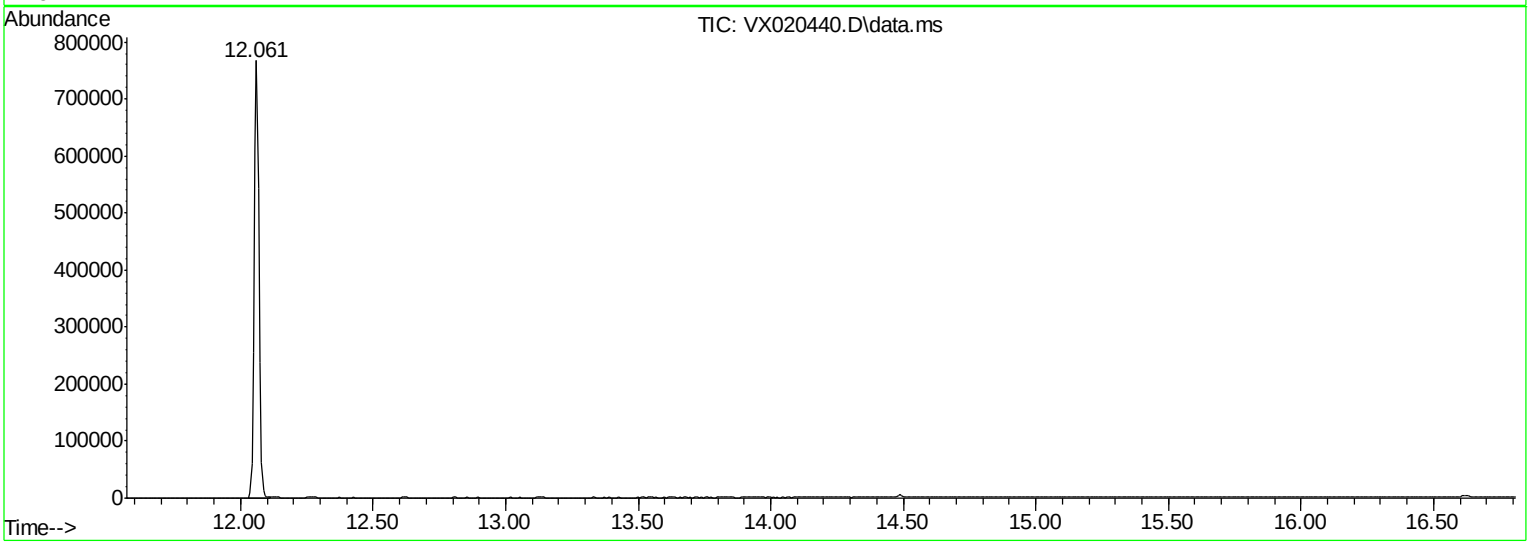
Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020440.D
Acq On : 29 Dec 2020 17:30
Operator : JC/MD
Sample : L5236-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020440.D
Acq On : 29 Dec 2020 17:30
Operator : JC/MD
Sample : L5236-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1024-MW-19(28)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1025-FB122820	SDG No.:	L5236
Lab Sample ID:	L5236-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020441.D	1		12/29/20 17:53	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	6.90		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1025-FB122820	SDG No.:	L5236
Lab Sample ID:	L5236-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020441.D	1		12/29/20 17:53	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9		78 - 117	92%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	49.9		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		83 - 123	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	233000	5.629			
540-36-3	1,4-Difluorobenzene	383000	6.83			
3114-55-4	Chlorobenzene-d5	357000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	152000	12.061			
TENTATIVE IDENTIFIED COMPOUNDS						
000104-76-7	1-Hexanol, 2-ethyl-	5.40	J		12.3	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1025-FB122820	SDG No.:	L5236
Lab Sample ID:	L5236-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020441.D	1		12/29/20 17:53	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020441.D
Acq On : 29 Dec 2020 17:53
Operator : JC/MD
Sample : L5236-13
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

Quant Time: Dec 30 02:39:12 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820w.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

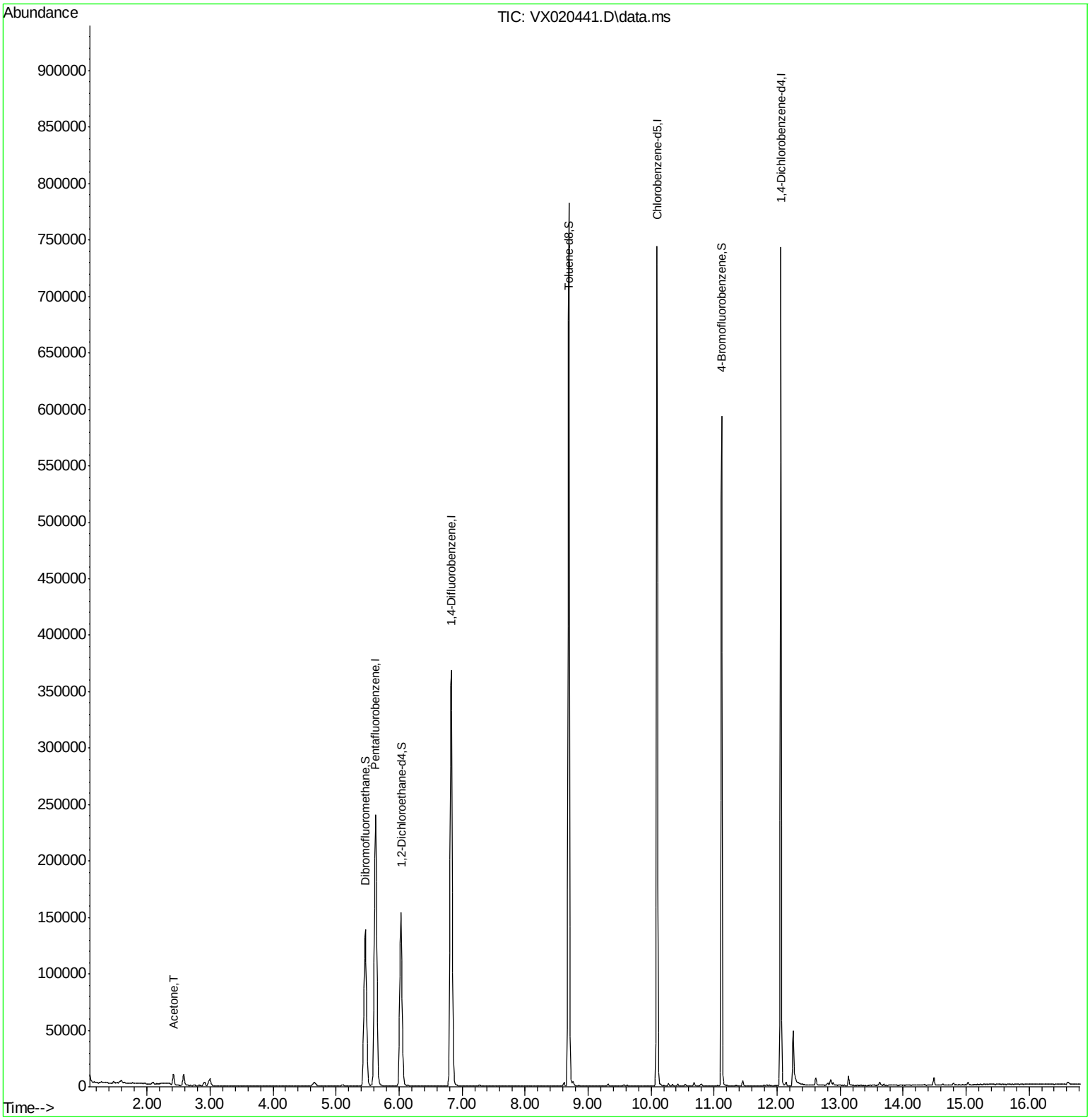
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	233163	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	383142	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	357147	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	152242	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	143392	45.88	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 91.76%			
35) Dibromofluoromethane	5.464	113	120537	49.18	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.36%			
50) Toluene-d8	8.695	98	470305	49.85	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 99.70%			
62) 4-Bromofluorobenzene	11.122	95	163081	45.16	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 90.32%			
Target Compounds						Qvalue
16) Acetone	2.416	43	9893	6.94	ug/l	99

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

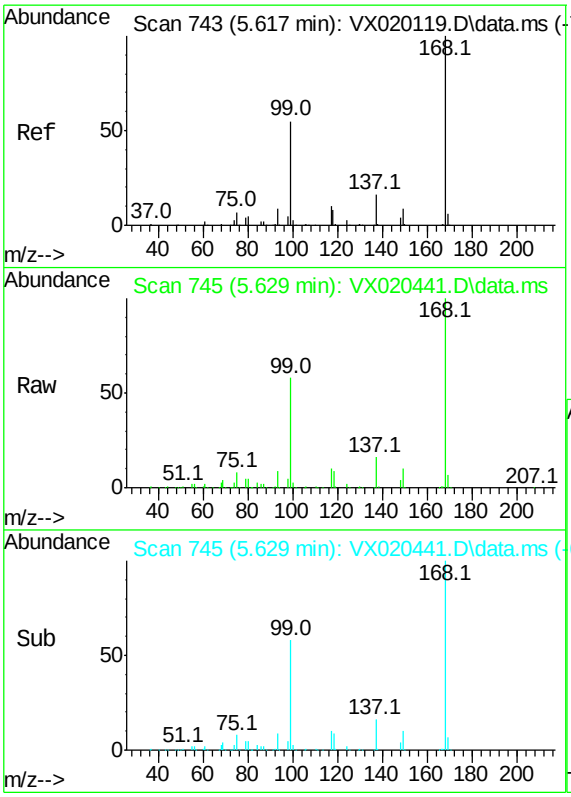
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020441.D
Acq On : 29 Dec 2020 17:53
Operator : JC/MD
Sample : L5236-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

Quant Time: Dec 30 02:39:12 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



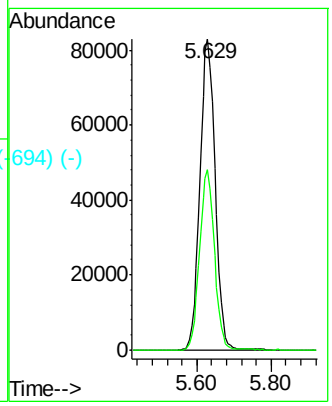
Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

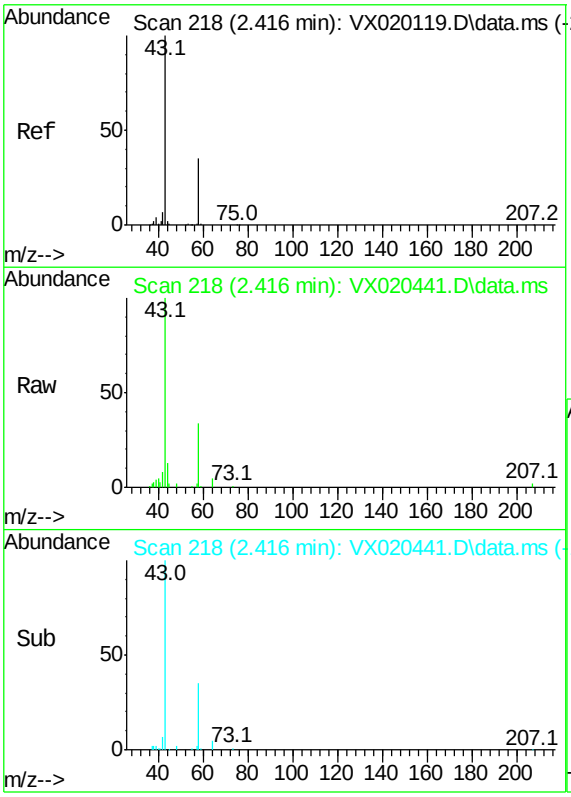


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion:168 Resp: 233163

Ion	Ratio	Lower	Upper
168	100		
99	57.9	45.8	68.6

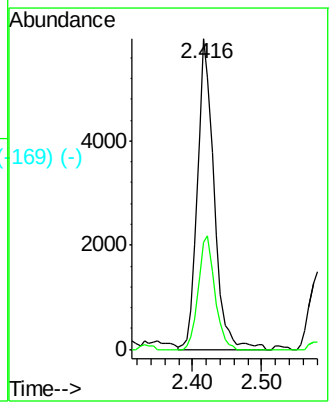




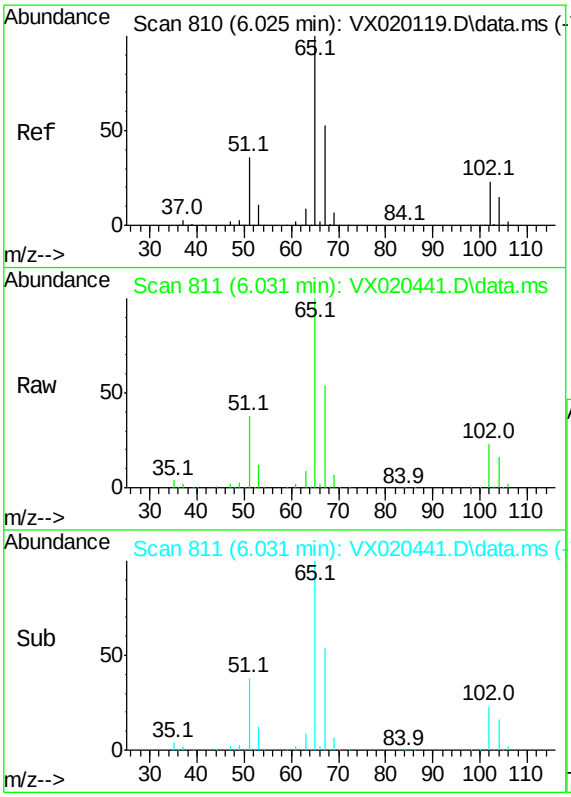
#16
Acetone
Concen: 6.94 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion: 43 Resp: 9893

Ion	Ratio	Lower	Upper
43	100		
58	34.4	27.8	41.8



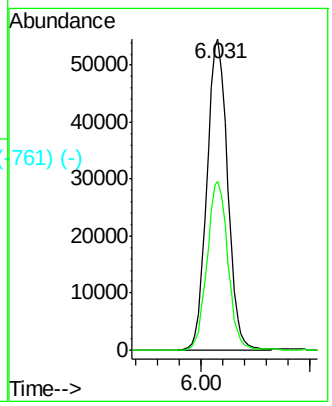
Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

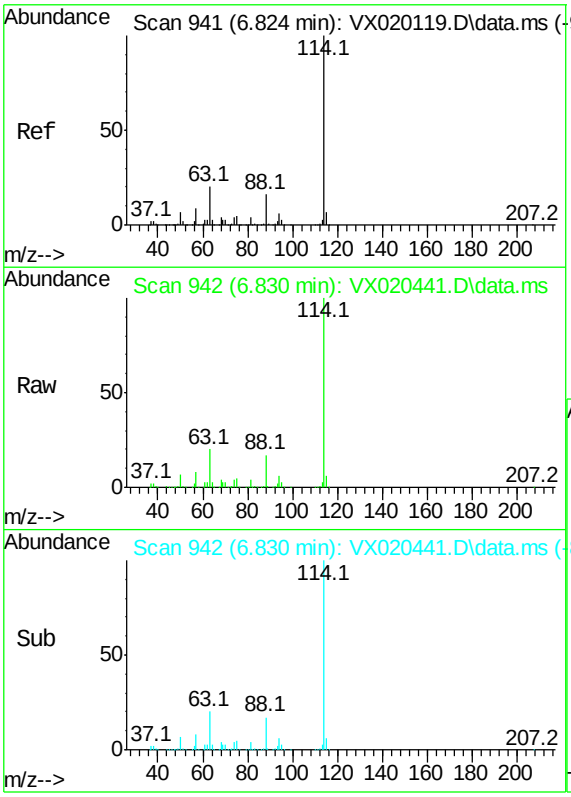


#33
1,2-Dichloroethane-d4
Concen: 45.88 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion: 65 Resp: 143392

Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	105.4

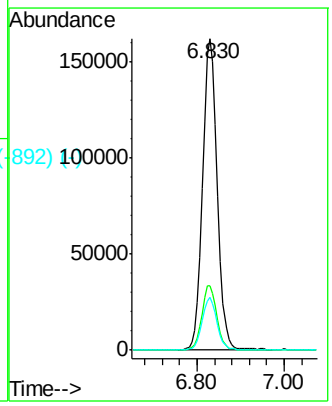




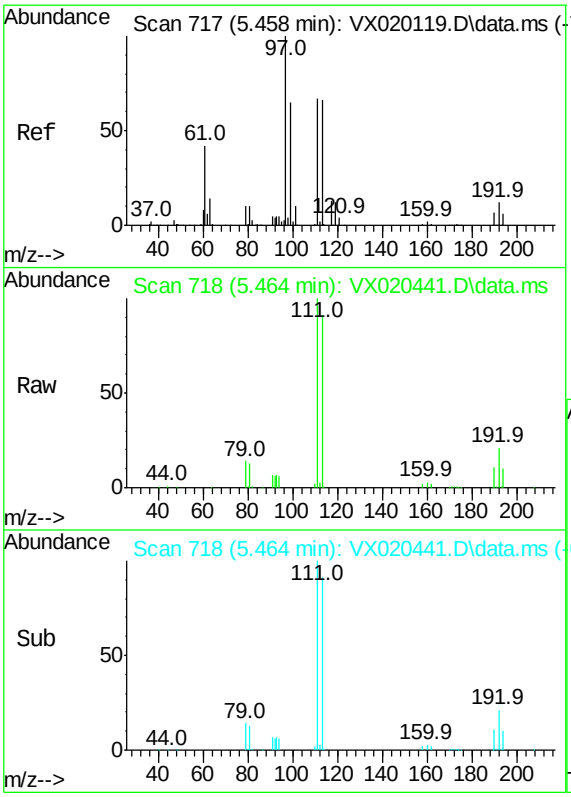
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion:114 Resp: 383142

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	17.0	0.0	32.8



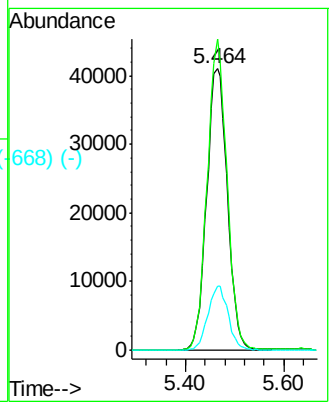
Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

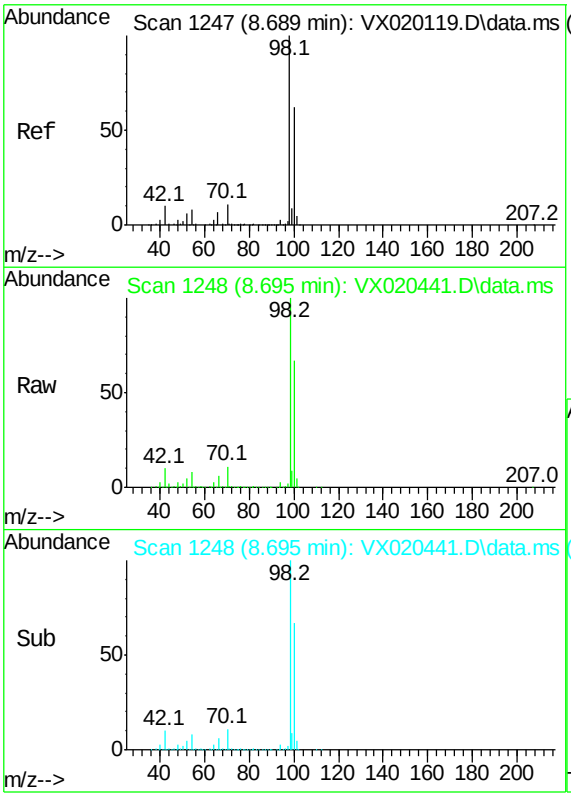


#35
Dibromofluoromethane
Concen: 49.18 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion:113 Resp: 120537

Ion	Ratio	Lower	Upper
113	100		
111	105.3	81.9	122.9
192	21.9	16.7	25.1

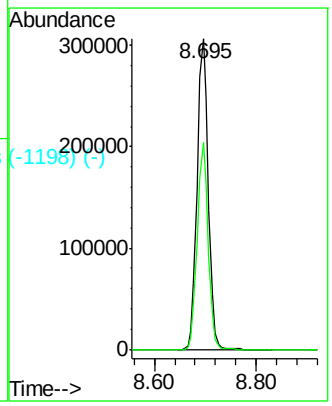




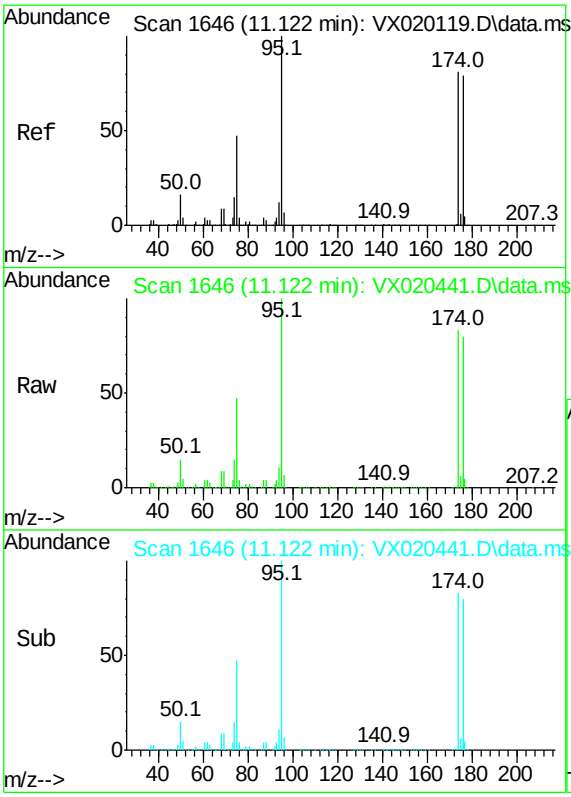
#50
Toluene-d8
Concen: 49.85 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion: 98 Resp: 470305

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.9	77.9



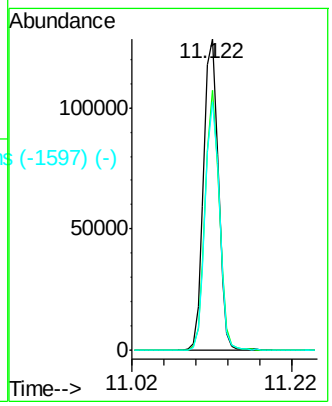
Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

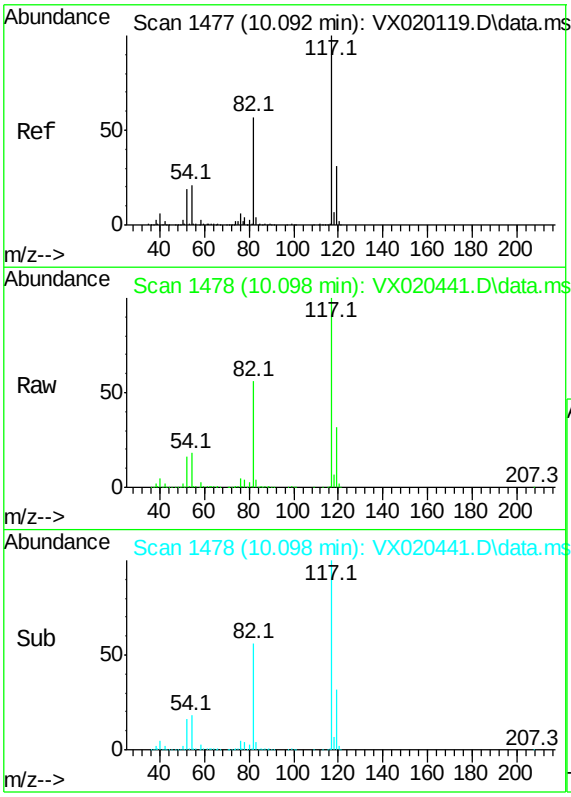


#62
4-Bromofluorobenzene
Concen: 45.16 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion: 95 Resp: 163081

Ion	Ratio	Lower	Upper
95	100		
174	79.4	0.0	154.6
176	77.5	0.0	155.8

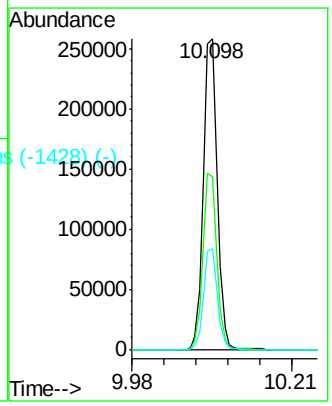




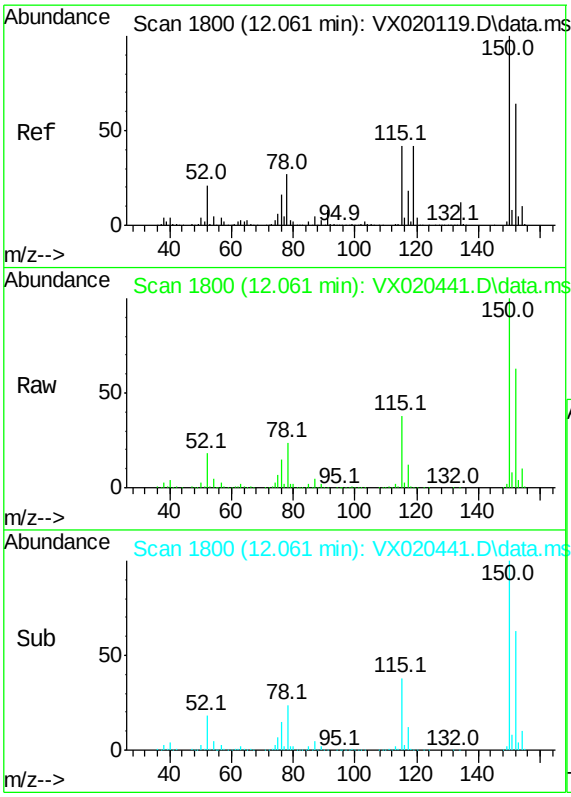
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion:117 Resp: 357147

Ion	Ratio	Lower	Upper
117	100		
82	55.6	47.4	71.2
119	32.4	26.6	39.8



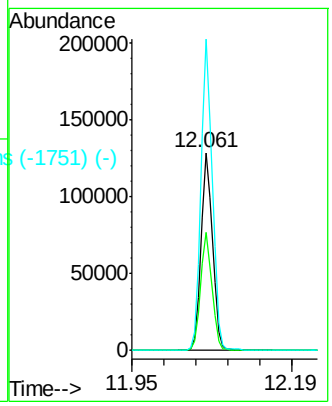
Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020441.D
Acq: 29 Dec 2020 17:53

Tgt Ion:152 Resp: 152242

Ion	Ratio	Lower	Upper
152	100		
115	59.2	41.1	123.3
150	156.7	0.0	349.0



Sample Results: **VX020441.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020441.D
Acq On : 29 Dec 2020 17:53
Operator : JC/MD
Sample : L5236-13
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020441.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.416	213	218	226	rVB	9838	16744	1.40%	0.264%
2	2.581	240	245	259	rVB	10037	19997	1.67%	0.315%
3	2.995	305	313	326	rVB	6451	17086	1.43%	0.269%
4	5.464	705	718	731	rBV	138675	394064	32.87%	6.211%
5	5.629	733	745	759	rVV	240115	665266	55.48%	10.486%
6	6.031	800	811	827	rBV	154250	402154	33.54%	6.339%
7	6.830	930	942	956	rBV	368375	874034	72.90%	13.777%
8	8.695	1241	1248	1256	rBV	782309	1199010	100.00%	18.899%
9	10.092	1469	1477	1494	rBV	743755	1029018	85.82%	16.220%
10	11.122	1640	1646	1656	rBV	593003	745294	62.16%	11.748%
11	12.061	1795	1800	1809	rBV	742261	886441	73.93%	13.973%
12	12.256	1826	1832	1855	rBV	48517	95038	7.93%	1.498%

Sum of corrected areas: 6344146

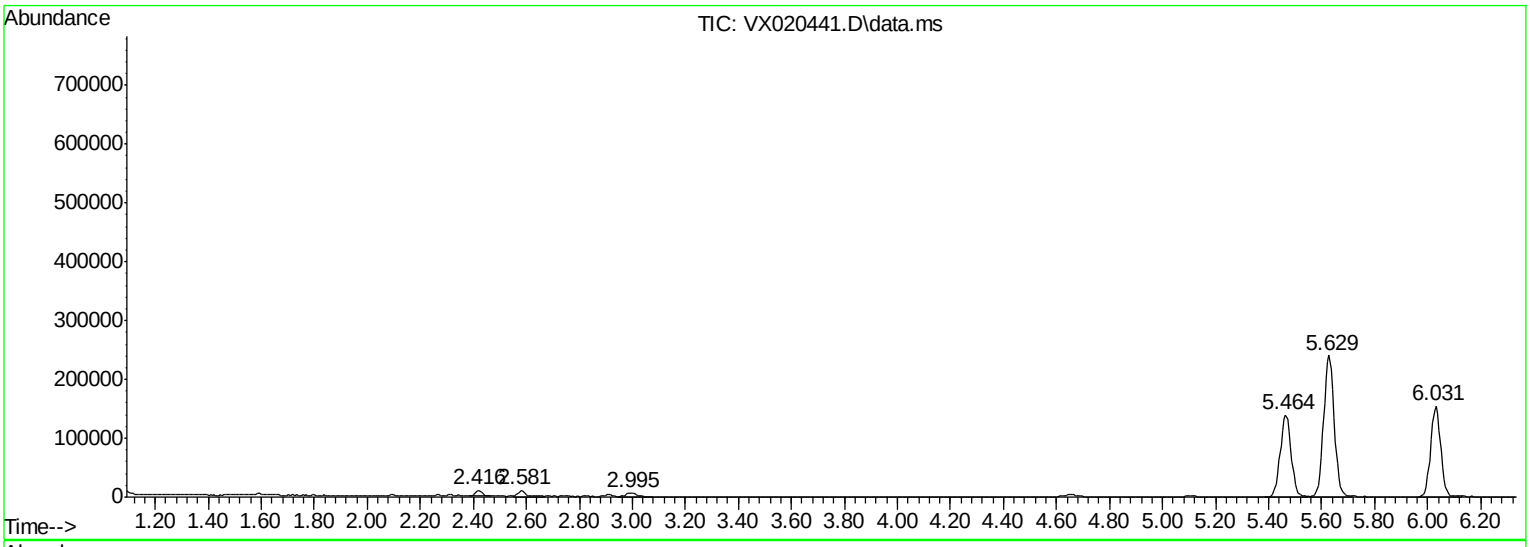
Sample Results: **VX020441.D**

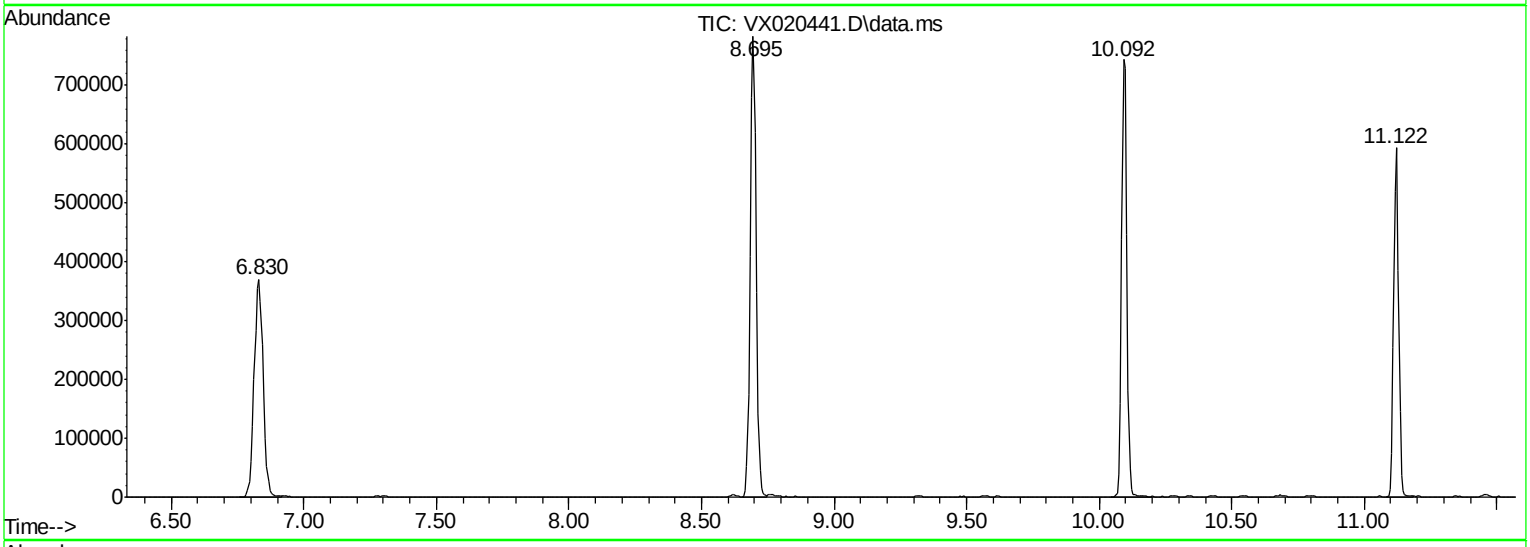
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020441.D
Acq On : 29 Dec 2020 17:53
Operator : JC/MD
Sample : L5236-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

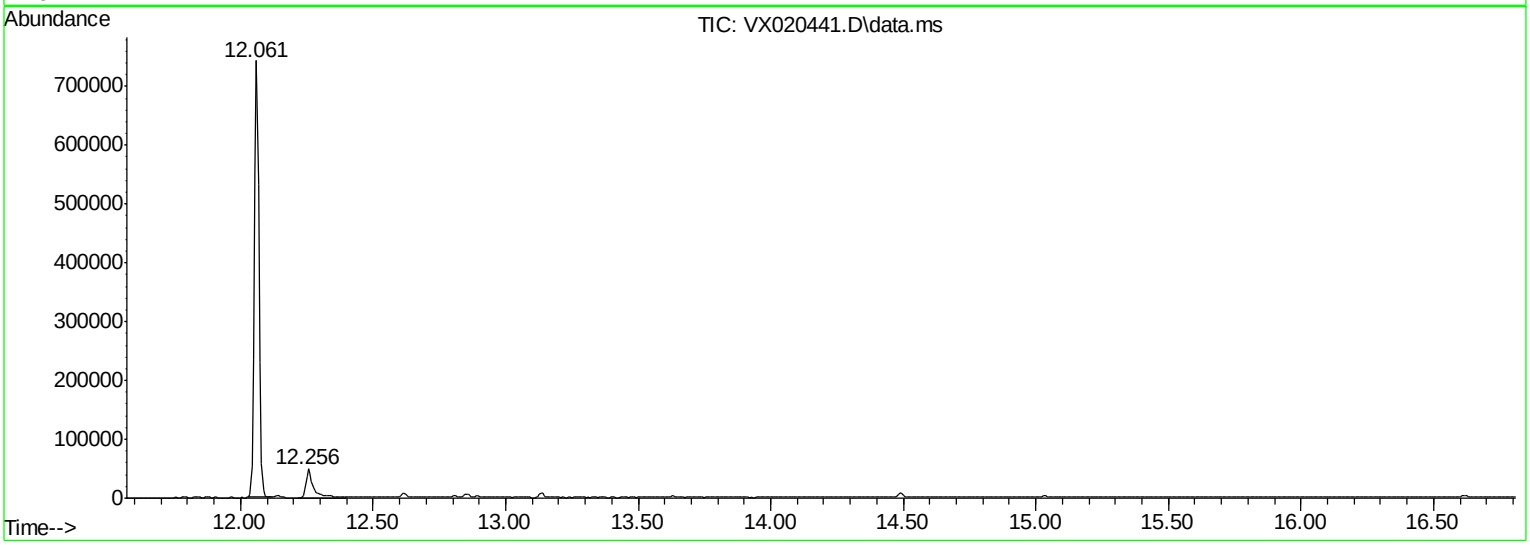
Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020441.D
Acq On : 29 Dec 2020 17:53
Operator : JC/MD
Sample : L5236-13
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

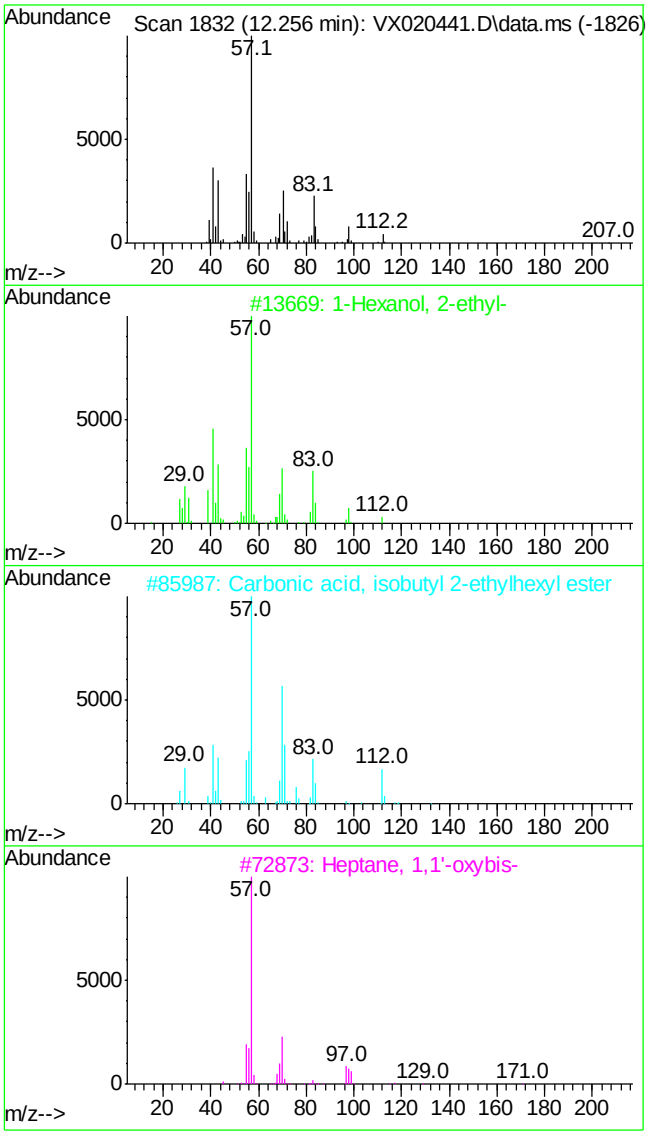
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

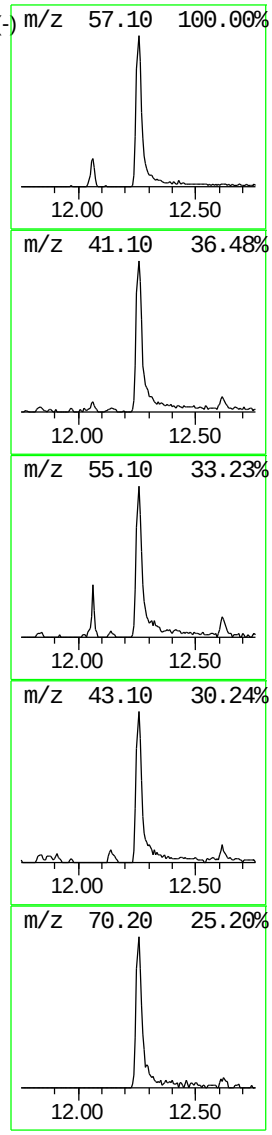
****

Peak Number 1 1-Hexanol, 2-ethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.256	5.36 ug/l	95038	1,4-Dichlorobenzene-d4	12.061

Hit# of 5	Tentative ID	Mw	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	86
2	Carbonic acid, isobutyl 2-ethylh...	230	C13H26O3	1000357-82-9	50
3	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	50
4	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	47
5	2-Ethyl-1-hexanol, methyl ether	144	C9H20O	1000365-10-2	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020441.D
Acq On : 29 Dec 2020 17:53
Operator : JC/MD
Sample : L5236-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1025-FB122820

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-Hexanol, 2-et...	12.256	5.4	ug/l	95038	4	12.061	886441	50.0

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1026-TB122820	SDG No.:	L5236
Lab Sample ID:	L5236-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020427.D	1		12/29/20 12:25	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1026-TB122820	SDG No.:	L5236
Lab Sample ID:	L5236-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020427.D	1		12/29/20 12:25	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.0		78 - 117	86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		83 - 123	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	281000	5.629			
540-36-3	1,4-Difluorobenzene	452000	6.83			
3114-55-4	Chlorobenzene-d5	410000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	187000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1026-TB122820	SDG No.:	L5236
Lab Sample ID:	L5236-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020427.D	1		12/29/20 12:25	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020427.D
Acq On : 29 Dec 2020 12:25
Operator : JC/MD
Sample : L5236-14
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 7 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 1026-TB122820

Quant Time: Dec 30 02:35:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	280561	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	452236	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	410268	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	186844	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	161872	43.04	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 86.08%			
35) Dibromofluoromethane	5.458	113	137749	47.62	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 95.24%			
50) Toluene-d8	8.696	98	543219	48.78	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 97.56%			
62) 4-Bromofluorobenzene	11.122	95	197935	46.44	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 92.88%			

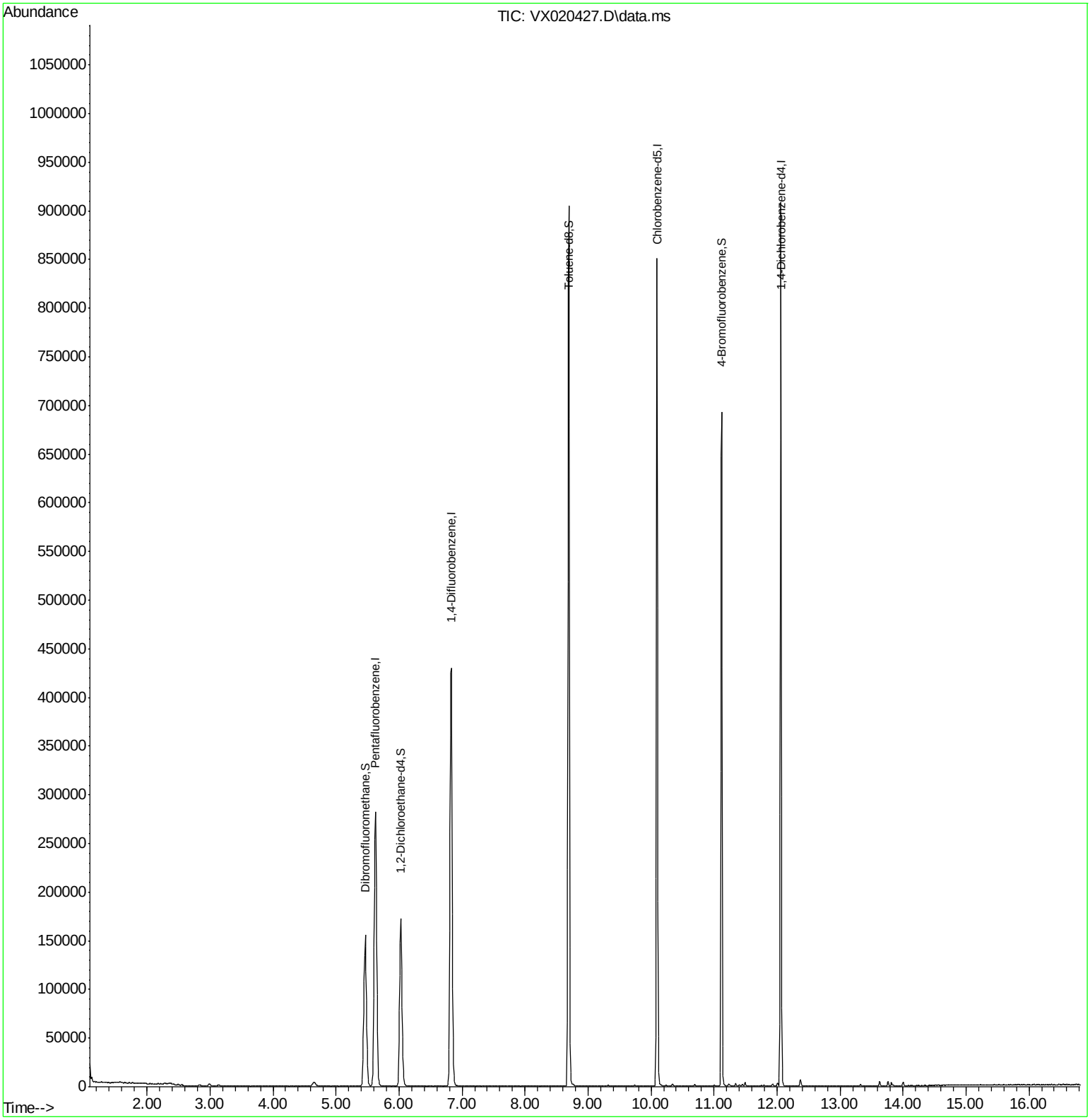
Target Compounds Qvalue

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

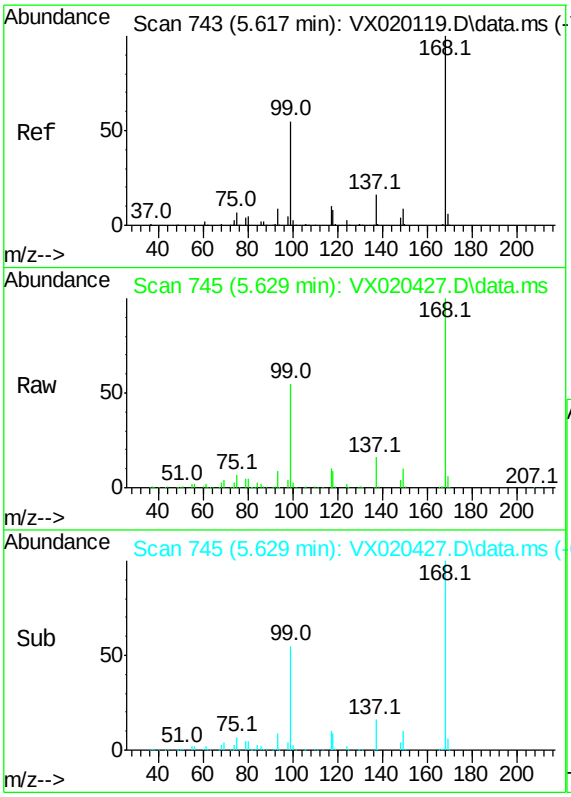
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020427.D
Acq On : 29 Dec 2020 12:25
Operator : JC/MD
Sample : L5236-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

Quant Time: Dec 30 02:35:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



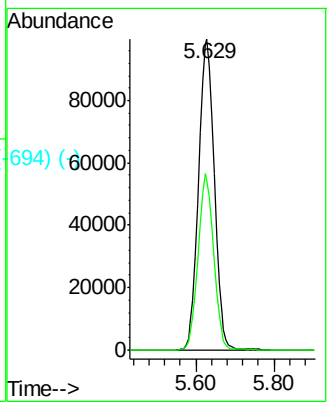
Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

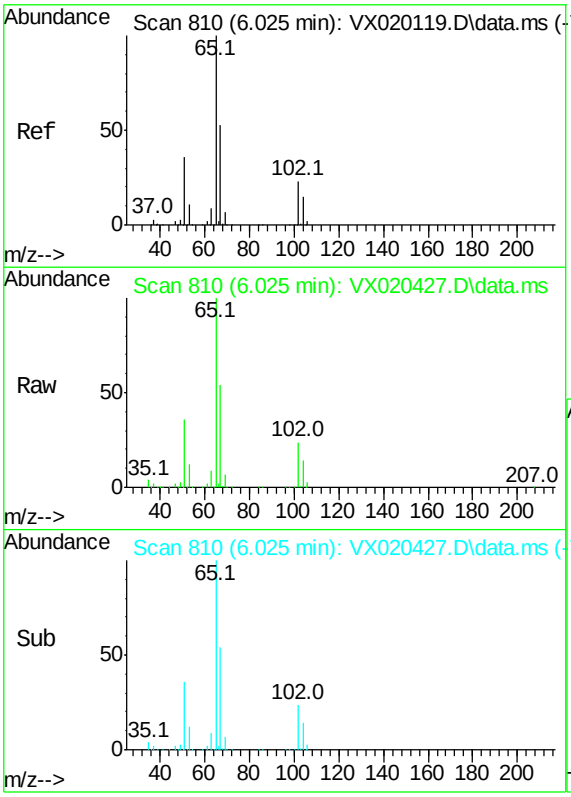


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion:168 Resp: 280561

Ion	Ratio	Lower	Upper
168	100		
99	54.7	45.8	68.6

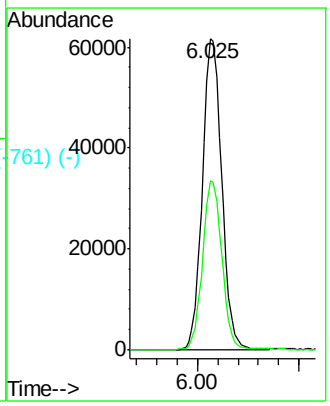




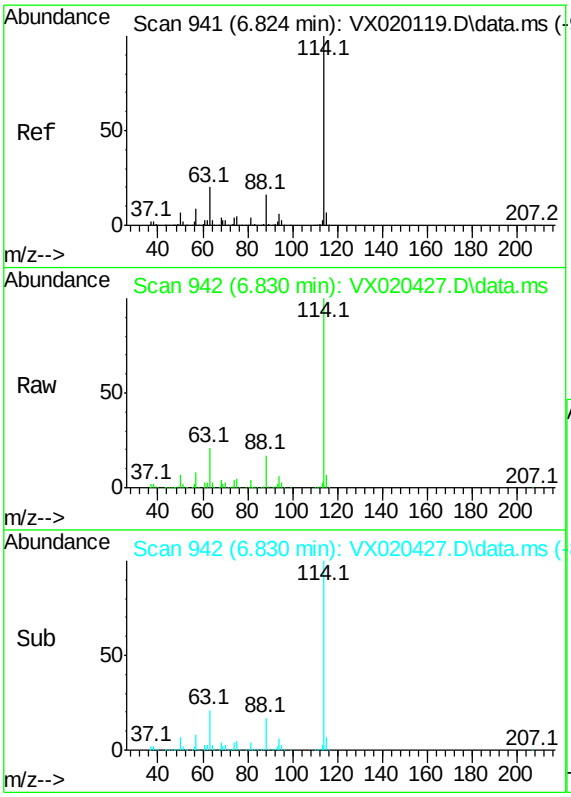
#33
1,2-Dichloroethane-d4
Concen: 43.04 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion: 65 Resp: 161872

Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	105.4



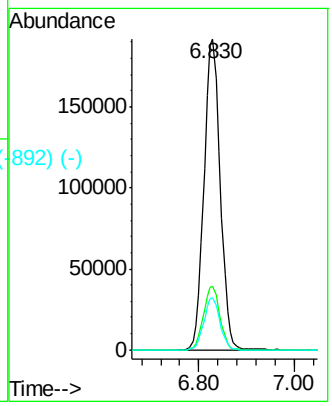
Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

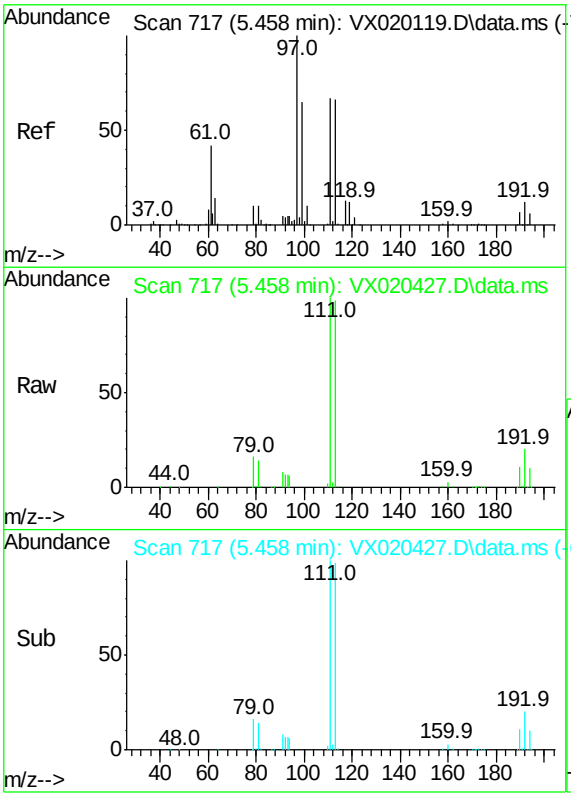


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion:114 Resp: 452236

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.8
88	16.7	0.0	32.8

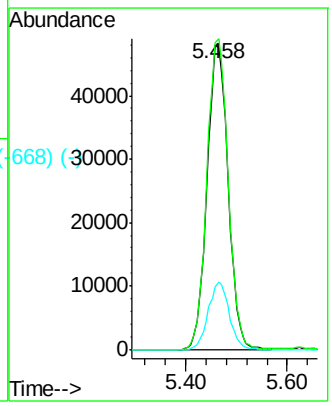




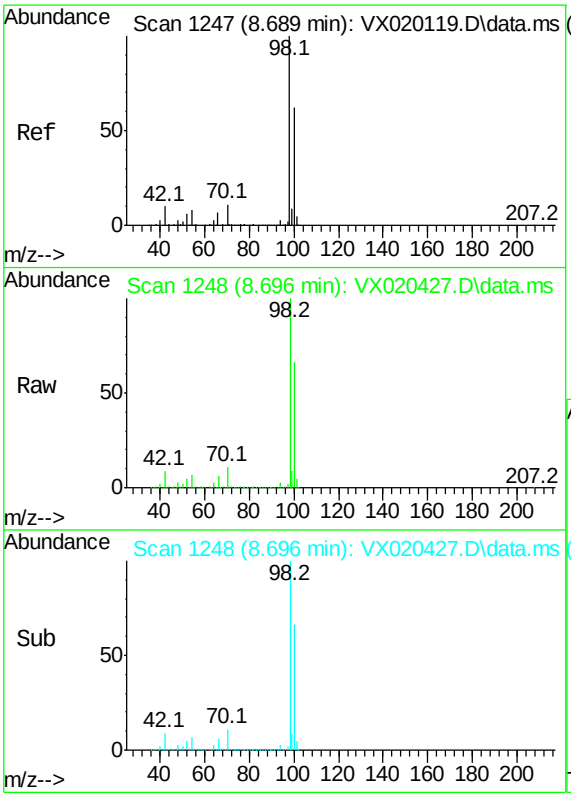
#35
Dibromofluoromethane
Concen: 47.62 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion:113 Resp: 137749

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	21.9	16.7	25.1



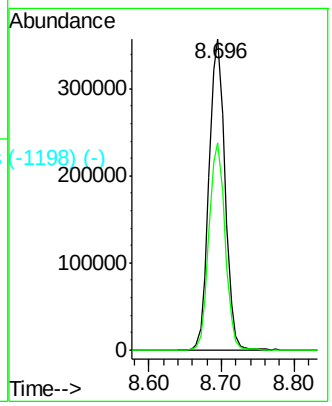
Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

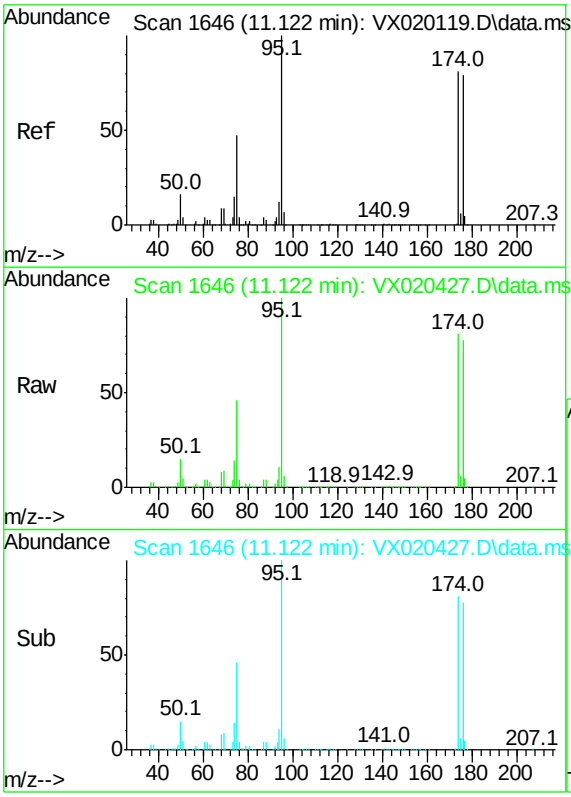


#50
Toluene-d8
Concen: 48.78 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion: 98 Resp: 543219

Ion	Ratio	Lower	Upper
98	100		
100	67.0	51.9	77.9

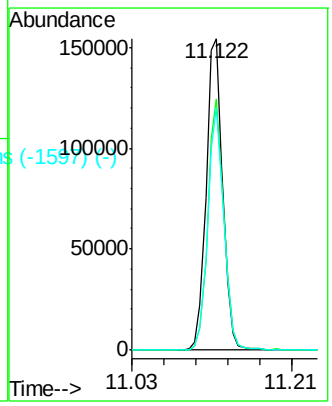




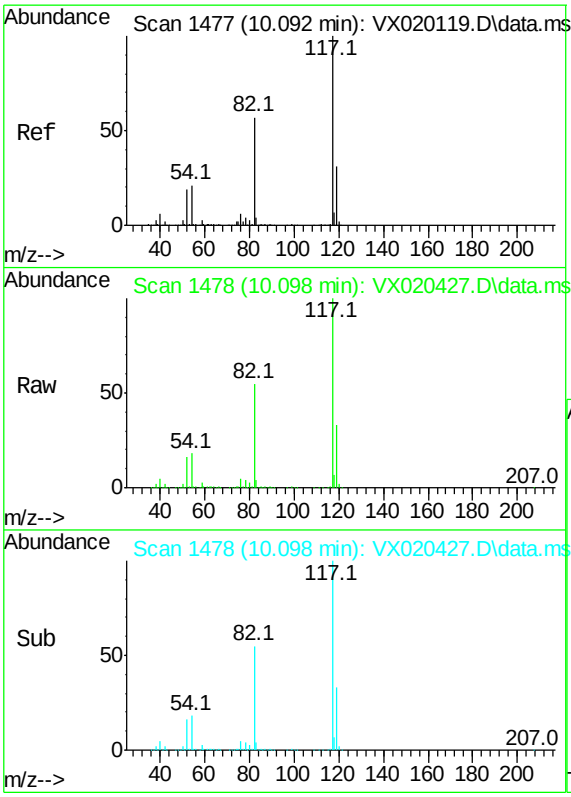
#68
4-Bromofluorobenzene
Concen: 46.44 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion: 95 Resp: 197935

Ion	Ratio	Lower	Upper
95	100		
174	77.8	0.0	154.6
176	75.5	0.0	155.8



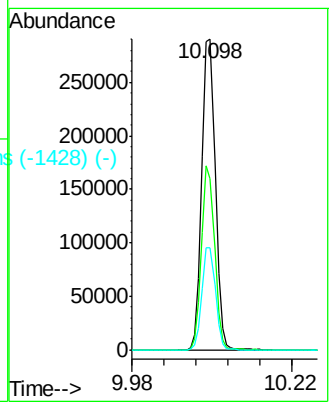
Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

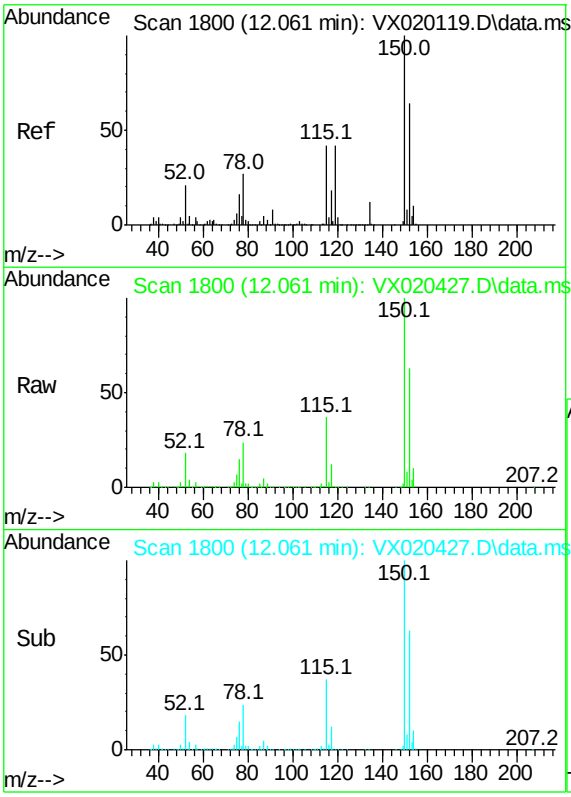


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion:117 Resp: 410268

Ion	Ratio	Lower	Upper
117	100		
82	55.2	47.4	71.2
119	32.8	26.6	39.8

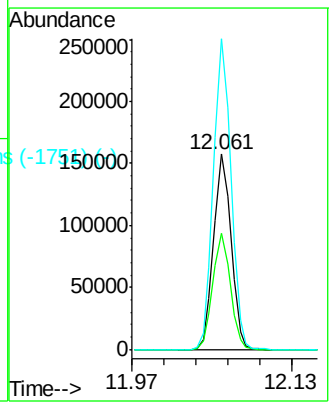




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020427.D
Acq: 29 Dec 2020 12:25

Tgt Ion:152 Resp: 186844

Ion	Ratio	Lower	Upper
152	100		
115	59.4	41.1	123.3
150	159.2	0.0	349.0



Sample Results: **VX020427.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020427.D
Acq On : 29 Dec 2020 12:25
Operator : JC/MD
Sample : L5236-14
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020427.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.647	572	584	596	rBV2	3980	14073	1.01%	0.193%
2	5.464	705	718	733	rBV2	156101	448360	32.02%	6.139%
3	5.623	733	744	759	rVV	281504	792096	56.57%	10.845%
4	6.025	800	810	825	rBV	172664	450991	32.21%	6.175%
5	6.830	930	942	955	rBV	430096	1021726	72.98%	13.989%
6	8.696	1240	1248	1264	rBV	904289	1400102	100.00%	19.170%
7	10.092	1471	1477	1493	rBV	850556	1189256	84.94%	16.283%
8	11.122	1640	1646	1657	rBV	692772	888365	63.45%	12.163%
9	12.061	1794	1800	1813	rVB	907945	1098640	78.47%	15.042%

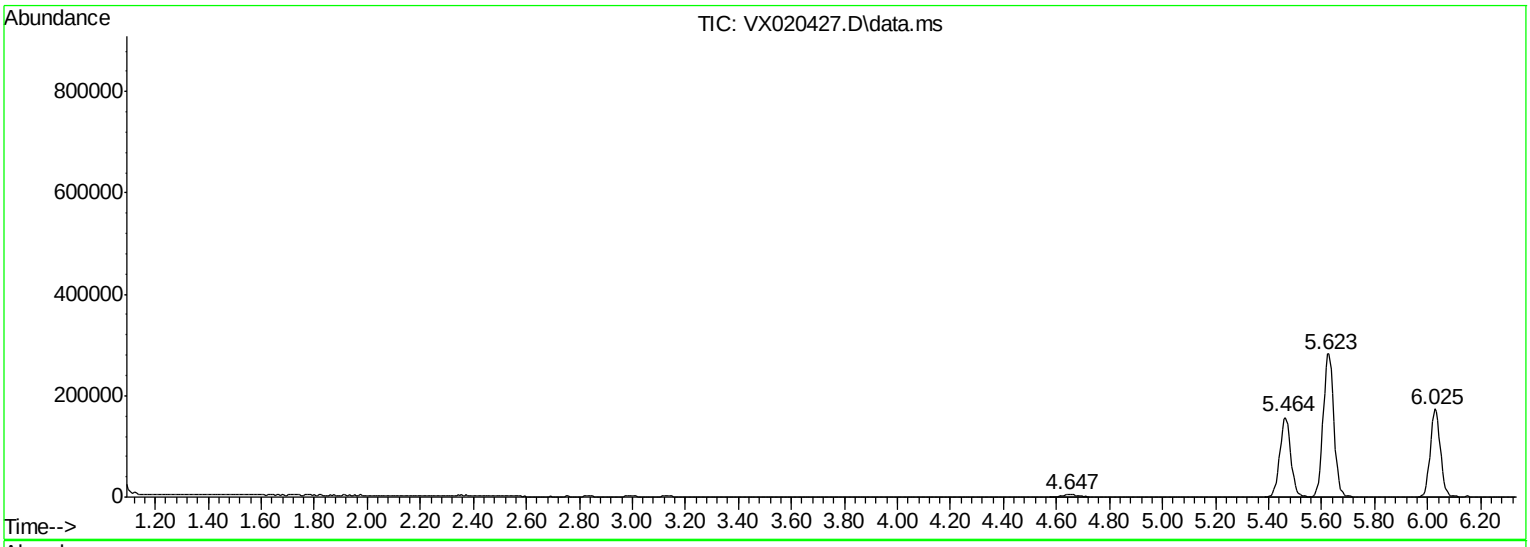
Sum of corrected areas: 7303609

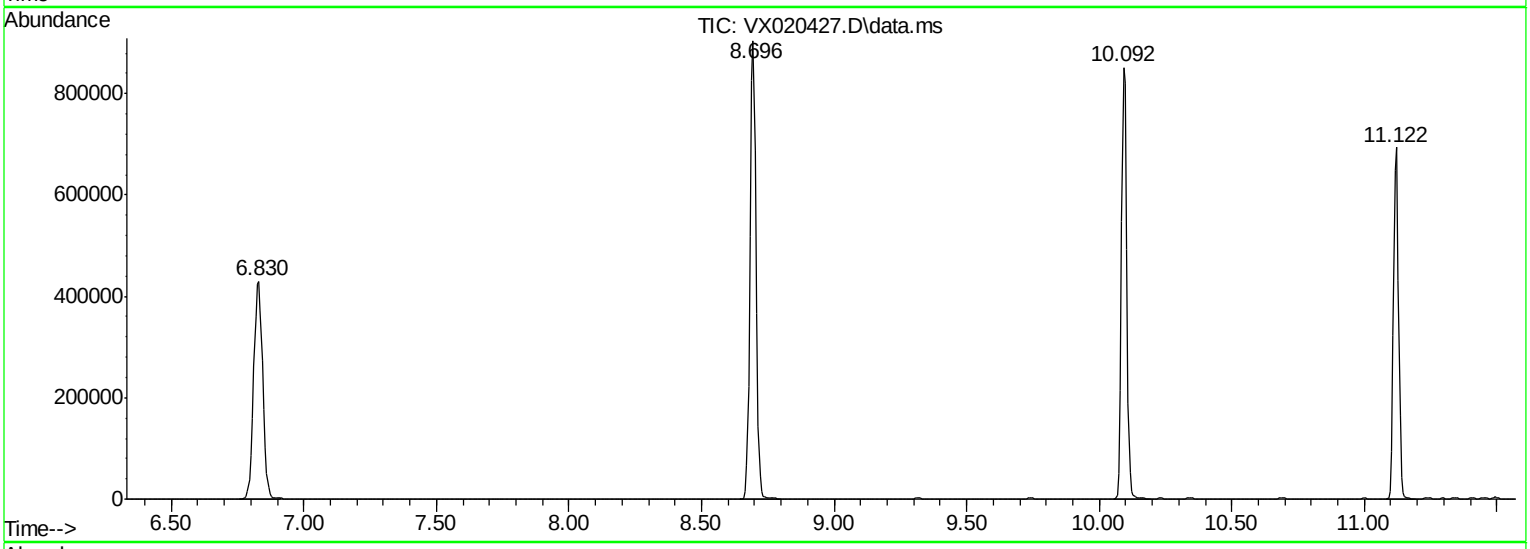
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020427.D
Acq On : 29 Dec 2020 12:25
Operator : JC/MD
Sample : L5236-14
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 7 Sample Multiplier: 1

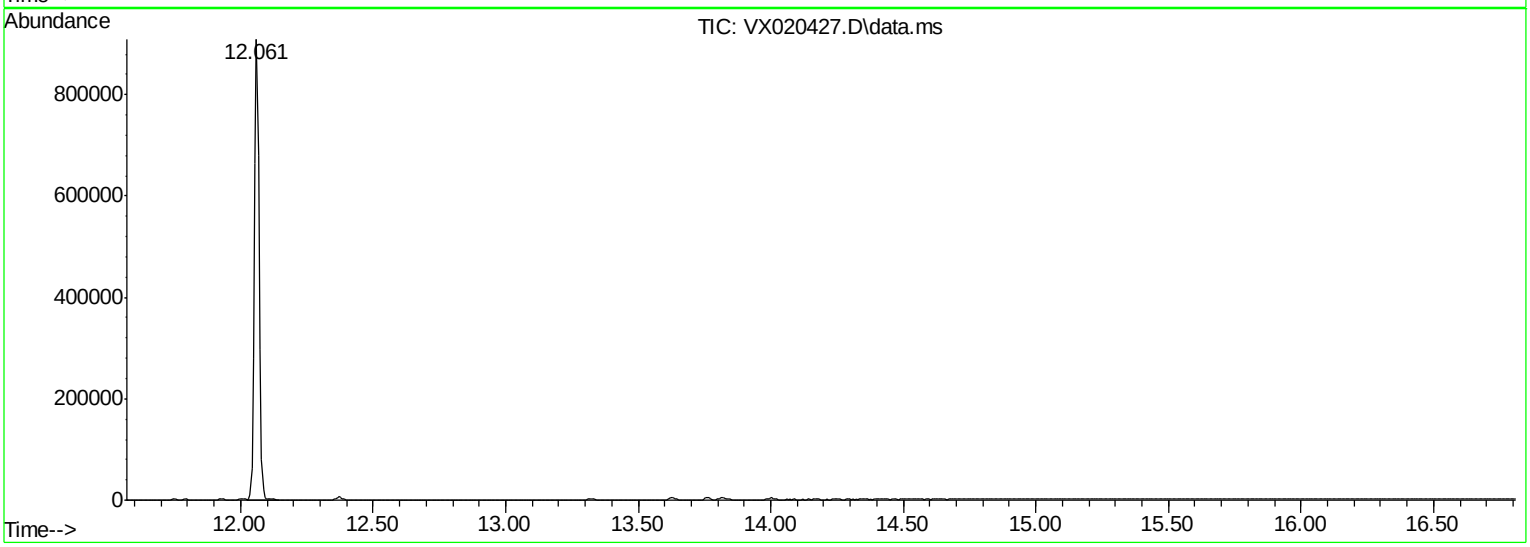
Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020427.D
Acq On : 29 Dec 2020 12:25
Operator : JC/MD
Sample : L5236-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020427.D
Acq On : 29 Dec 2020 12:25
Operator : JC/MD
Sample : L5236-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1026-TB122820

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG No.: L5236

Instrument ID: MSVOA_X Calibration Date(s): 12/18/2020 12/18/2020

Heated Purge: (Y/N) N Calibration Time(s): 10:28 12:43

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX020116.D RRF005 = VX020117.D RRF020 = VX020118.D
RRF050 = VX020119.D RRF100 = VX020120.D RRF150 = VX020121.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.526	0.606	0.486	0.509	0.580	0.551	0.543	8.2
Chloromethane	0.692	0.699	0.565	0.620	0.603	0.599	0.630	8.6
Vinyl Chloride	0.740	0.763	0.608	0.641	0.696	0.667	0.686	8.6
Bromomethane		0.255	0.250	0.208	0.196	0.190	0.220	13.9
Chloroethane	0.445	0.477	0.390	0.430	0.429	0.392	0.427	7.7
Trichlorofluoromethane	0.943	1.007	0.766	0.810	0.901	0.865	0.882	10
1,1,2-Trichlorotrifluoroethane	0.556	0.567	0.418	0.456	0.506	0.492	0.499	11.5
1,1-Dichloroethene	0.567	0.561	0.442	0.477	0.516	0.501	0.511	9.5
Acetone	0.380	0.328	0.287	0.308	0.274	0.257	0.306	14.4
Carbon Disulfide	1.766	1.578	1.261	1.406	1.545	1.496	1.509	11.3
Methyl tert-butyl Ether	1.847	2.010	1.773	2.088	1.910	1.844	1.912	6.1
Methyl Acetate	0.740	0.708	0.625	0.719	0.661	0.638	0.682	6.9
Methylene Chloride	0.825	0.747	0.608	0.700	0.640	0.614	0.689	12.4
trans-1,2-Dichloroethene	0.696	0.677	0.540	0.611	0.609	0.584	0.620	9.4
1,1-Dichloroethane	1.122	1.185	0.992	1.119	1.079	1.042	1.090	6.2
Cyclohexane		1.036	0.797	0.858	0.979	0.952	0.924	10.4
2-Butanone	0.457	0.460	0.422	0.473	0.439	0.419	0.445	5
Carbon Tetrachloride	0.483	0.523	0.393	0.435	0.499	0.486	0.470	10.1
cis-1,2-Dichloroethene	0.717	0.748	0.634	0.728	0.697	0.673	0.699	5.9
Bromochloromethane	0.492	0.488	0.477	0.502	0.477	0.476	0.485	2.2
Chloroform	1.118	1.202	1.024	1.162	1.100	1.052	1.109	6
1,1,1-Trichloroethane	0.953	0.994	0.820	0.905	0.956	0.923	0.925	6.5
Methylcyclohexane	0.593	0.642	0.456	0.501	0.624	0.606	0.570	13.1
Benzene	1.615	1.700	1.364	1.525	1.538	1.488	1.538	7.4
1,2-Dichloroethane	0.528	0.586	0.484	0.544	0.522	0.503	0.528	6.7
Trichloroethene	0.447	0.438	0.340	0.376	0.398	0.387	0.398	10.1
1,2-Dichloropropane	0.393	0.424	0.350	0.396	0.391	0.379	0.389	6.2
Bromodichloromethane	0.492	0.523	0.449	0.529	0.532	0.517	0.507	6.3
4-Methyl-2-Pentanone	0.460	0.519	0.464	0.531	0.525	0.513	0.502	6.3
Toluene	0.900	1.043	0.846	0.941	0.966	0.936	0.939	7
t-1,3-Dichloropropene	0.501	0.556	0.484	0.593	0.614	0.598	0.558	9.7
cis-1,3-Dichloropropene	0.560	0.623	0.547	0.650	0.655	0.638	0.612	7.6
1,1,2-Trichloroethane	0.393	0.413	0.350	0.400	0.393	0.373	0.387	5.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG No.: L5236

Instrument ID: MSVOA_X Calibration Date(s): 12/18/2020 12/18/2020

Heated Purge: (Y/N) N Calibration Time(s): 10:28 12:43

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX020116.D RRF005 = VX020117.D RRF020 = VX020118.D
RRF050 = VX020119.D RRF100 = VX020120.D RRF150 = VX020121.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Hexanone	0.333	0.394	0.354	0.404	0.407	0.403	0.382	8.2
Dibromochloromethane	0.342	0.390	0.339	0.407	0.417	0.409	0.384	9.1
1,2-Dibromoethane	0.399	0.422	0.369	0.422	0.415	0.399	0.404	5
Tetrachloroethene	0.446	0.443	0.322	0.336	0.357	0.356	0.377	14.3
Chlorobenzene	1.120	1.216	0.945	1.045	1.059	1.051	1.073	8.4
Ethyl Benzene	1.865	2.063	1.640	1.823	1.953	1.908	1.875	7.6
m/p-Xylenes	0.645	0.784	0.623	0.693	0.740	0.715	0.700	8.6
o-Xylene	0.646	0.726	0.592	0.678	0.703	0.698	0.674	7.2
Styrene	1.009	1.164	1.019	1.179	1.232	1.231	1.139	8.9
Bromoform	0.264	0.287	0.252	0.300	0.334	0.352	0.298	13.1
Isopropylbenzene	3.622	4.149	3.230	3.461	3.648	3.542	3.609	8.4
1,1,2,2-Tetrachloroethane	1.366	1.476	1.197	1.300	1.273	1.251	1.310	7.5
1,3-Dichlorobenzene	1.874	1.884	1.471	1.670	1.684	1.650	1.705	9.1
1,4-Dichlorobenzene	2.068	1.991	1.502	1.691	1.715	1.706	1.779	11.9
1,2-Dichlorobenzene	1.846	1.901	1.497	1.650	1.649	1.639	1.697	8.8
1,2-Dibromo-3-Chloropropane	0.261	0.284	0.245	0.283	0.289	0.288	0.275	6.5
1,2,4-Trichlorobenzene	1.215	1.130	0.889	1.055	1.112	1.147	1.091	10.3
1,2,3-Trichlorobenzene	1.219	1.104	0.900	1.042	1.088	1.124	1.080	9.8
1,2-Dichloroethane-d4		0.702	0.614	0.701	0.663	0.672	0.670	5.3
Dibromofluoromethane		0.330	0.285	0.321	0.327	0.336	0.320	6.3
Toluene-d8		1.282	1.090	1.212	1.278	1.293	1.231	6.9
4-Bromofluorobenzene		0.458	0.403	0.464	0.499	0.532	0.471	10.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_X

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\
Method File : 82X121820w.M
Title : Sw846 8260
Last Update : Fri Dec 18 13:09:49 2020
Response Via : Initial Calibration

Calibration Files
1 =VX020116.D 5 =VX020117.D 20 =VX020118.D 50 =VX020119.D 100 =VX020120.D 150 =VX0201
21.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.526	0.606	0.486	0.509	0.580	0.551	0.543	8.24
3)	P	Chloromethane	0.692	0.699	0.565	0.620	0.603	0.599	0.630	8.59
4)	C	Vinyl Chloride	0.740	0.763	0.608	0.641	0.696	0.667	0.686	8.57#
5)	T	Bromomethane		0.255	0.250	0.208	0.196	0.190	0.220	13.85
6)	T	Chloroethane	0.445	0.477	0.390	0.430	0.429	0.392	0.427	7.71
7)	T	Trichlorofluor...	0.943	1.007	0.766	0.810	0.901	0.865	0.882	10.00
8)	T	Diethyl Ether	0.391	0.411	0.356	0.412	0.376	0.358	0.384	6.46
9)	T	1,1,2-Trichlor...	0.556	0.567	0.418	0.456	0.506	0.492	0.499	11.46
10)	T	Methyl Iodide		0.534	0.499	0.660	0.721	0.696	0.622	16.02
11)	T	Tert butyl alc...		0.188	0.137	0.145	0.140	0.140	0.150	14.29
12)	CM	1,1-Dichloroet...	0.567	0.561	0.442	0.477	0.516	0.501	0.511	9.47#
13)	T	Acrolein		0.106	0.080	0.095	0.094	0.094	0.094	9.97
14)	T	Allyl chloride	0.982	0.930	0.802	0.921	0.914	0.890	0.906	6.58
15)	T	Acrylonitrile	0.355	0.359	0.322	0.369	0.340	0.327	0.345	5.43
16)	T	Acetone	0.380	0.328	0.287	0.308	0.274	0.257	0.306	14.45
17)	T	Carbon Disulfide	1.766	1.578	1.261	1.406	1.545	1.496	1.509	11.25
18)	T	Methyl Acetate	0.740	0.708	0.625	0.719	0.661	0.638	0.682	6.87
19)	T	Methyl tert-bu...	1.847	2.009	1.773	2.088	1.910	1.844	1.912	6.13
20)	T	Methylene Chlo...	0.825	0.747	0.608	0.700	0.640	0.614	0.689	12.40
21)	T	trans-1,2-Dich...	0.696	0.677	0.540	0.611	0.609	0.584	0.620	9.37
22)	T	Diisopropyl ether	1.773	1.971	1.717	2.003	1.857	1.781	1.850	6.23
23)	T	Vinyl Acetate	1.413	1.620	1.479	1.767	1.622	1.560	1.577	7.87
24)	P	1,1-Dichloroet...	1.122	1.185	0.992	1.119	1.079	1.042	1.090	6.21
25)	T	2-Butanone	0.457	0.460	0.422	0.473	0.439	0.419	0.445	4.97
26)	T	2,2-Dichloropr...	0.924	0.974	0.804	0.886	0.919	0.888	0.899	6.31
27)	T	cis-1,2-Dichlo...	0.717	0.748	0.634	0.728	0.697	0.673	0.699	5.88
28)	T	Bromochloromet...	0.492	0.488	0.477	0.502	0.477	0.476	0.485	2.16
29)	T	Tetrahydrofuran	0.283	0.281	0.261	0.302	0.283	0.270	0.280	4.95
30)	C	Chloroform	1.118	1.202	1.024	1.161	1.100	1.052	1.109	6.00#
31)	T	Cyclohexane		1.036	0.797	0.858	0.979	0.952	0.924	10.40
32)	T	1,1,1-Trichlor...	0.953	0.994	0.820	0.905	0.956	0.923	0.925	6.49
33)	S	1,2-Dichloroet...		0.702	0.614	0.701	0.663	0.672	0.670	5.35
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.330	0.285	0.321	0.327	0.336	0.320	6.30
36)	T	1,1-Dichloropr...	0.531	0.562	0.419	0.449	0.510	0.494	0.494	10.70
37)	T	Ethyl Acetate	0.554	0.520	0.457	0.528	0.521	0.501	0.514	6.36
38)	T	Carbon Tetrach...	0.483	0.523	0.393	0.435	0.499	0.486	0.470	10.06
39)	T	Methylcyclohexane	0.593	0.642	0.456	0.501	0.624	0.606	0.570	13.05
40)	TM	Benzene	1.615	1.700	1.364	1.525	1.538	1.488	1.538	7.41
41)	T	Methacrylonitrile	0.261	0.287	0.245	0.293	0.280	0.275	0.274	6.46
42)	TM	1,2-Dichloroet...	0.528	0.586	0.484	0.544	0.522	0.503	0.528	6.65
43)	T	Isopropyl Acetate	0.791	0.834	0.724	0.845	0.844	0.826	0.811	5.79
44)	TM	Trichloroethene	0.447	0.438	0.340	0.376	0.398	0.387	0.398	10.11
45)	C	1,2-Dichloropr...	0.393	0.424	0.350	0.396	0.391	0.379	0.389	6.23#
46)	T	Dibromomethane	0.291	0.284	0.234	0.271	0.262	0.254	0.266	7.74
47)	T	Bromodichlorom...	0.492	0.523	0.449	0.529	0.532	0.517	0.507	6.28
48)	T	Methyl methacr...	0.363	0.402	0.358	0.423	0.424	0.414	0.397	7.46
49)	T	1,4-Dioxane	0.009	0.010	0.008	0.010	0.010	0.010	0.009	6.02
50)	S	Toluene-d8		1.282	1.090	1.212	1.278	1.293	1.231	6.90
51)	T	4-Methyl-2-Pen...	0.460	0.519	0.464	0.531	0.525	0.513	0.502	6.31
52)	CM	Toluene	0.900	1.043	0.846	0.941	0.966	0.936	0.939	7.01#
53)	T	t-1,3-Dichloro...	0.501	0.556	0.484	0.593	0.614	0.598	0.558	9.73
54)	T	cis-1,3-Dichlo...	0.560	0.623	0.547	0.650	0.655	0.638	0.612	7.64
55)	T	1,1,2-Trichlor...	0.393	0.413	0.350	0.400	0.393	0.373	0.387	5.74
56)	T	Ethyl methacry...	0.456	0.565	0.506	0.615	0.631	0.627	0.567	12.74

Response Factor Report MSVOA_X

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\
Method File : 82X121820w.M

57)	T	1,3-Dichloropr...	0.645	0.713	0.600	0.686	0.669	0.641	0.659	5.99
58)	T	2-Chloroethyl ...	0.297	0.314	0.265	0.315	0.308	0.300	0.300	6.16
59)	T	2-Hexanone	0.333	0.394	0.354	0.404	0.407	0.403	0.382	8.15
60)	T	Dibromochlorom...	0.342	0.390	0.339	0.407	0.417	0.409	0.384	9.11
61)	T	1,2-Dibromoethane	0.399	0.422	0.369	0.422	0.415	0.399	0.404	4.97
62)	S	4-Bromofluorob...		0.458	0.403	0.464	0.499	0.532	0.471	10.23
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.446	0.443	0.322	0.336	0.357	0.356	0.377	14.34
65)	PM	Chlorobenzene	1.120	1.216	0.945	1.045	1.059	1.051	1.073	8.38
66)	T	1,1,1,2-Tetrac...	0.369	0.421	0.339	0.384	0.400	0.398	0.385	7.44
67)	C	Ethyl Benzene	1.865	2.063	1.640	1.823	1.953	1.908	1.875	7.56#
68)	T	m/p-Xylenes	0.645	0.784	0.623	0.693	0.740	0.715	0.700	8.56
69)	T	o-Xylene	0.646	0.726	0.592	0.678	0.703	0.698	0.674	7.18
70)	T	Styrene	1.009	1.164	1.019	1.179	1.232	1.231	1.139	8.85
71)	P	Bromoform	0.264	0.287	0.252	0.300	0.334	0.352	0.298	13.10
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.622	4.149	3.230	3.461	3.648	3.542	3.609	8.43
74)	T	N-amyl acetate	1.278	1.462	1.287	1.535	1.565	1.600	1.455	9.67
75)	P	1,1,2,2-Tetrac...	1.366	1.476	1.197	1.300	1.273	1.251	1.310	7.50
76)	T	1,2,3-Trichlor...	1.339	1.390	1.114	1.212	1.195	1.140	1.232	8.94
77)	T	Bromobenzene	1.049	1.080	0.832	0.910	0.944	0.908	0.954	9.84
78)	T	n-propylbenzene	4.154	4.702	3.643	3.991	4.317	4.147	4.159	8.43
79)	T	2-Chlorotoluene	2.686	2.921	2.328	2.535	2.580	2.509	2.593	7.66
80)	T	1,3,5-Trimethy...	2.848	3.440	2.765	3.015	3.200	3.084	3.059	7.99
81)	T	trans-1,4-Dich...		0.377	0.347	0.431	0.455	0.466	0.415	12.34
82)	T	4-Chlorotoluene	3.110	3.405	2.658	2.988	3.043	2.969	3.029	7.97
83)	T	tert-Butylbenzene	2.861	3.271	2.562	2.812	3.082	3.024	2.935	8.37
84)	T	1,2,4-Trimethy...	2.888	3.437	2.792	3.148	3.232	3.132	3.105	7.55
85)	T	sec-Butylbenzene	3.301	3.814	2.896	3.152	3.618	3.543	3.387	9.91
86)	T	p-Isopropyltol...	2.937	3.457	2.702	3.014	3.337	3.296	3.124	9.18
87)	T	1,3-Dichlorobe...	1.874	1.884	1.471	1.670	1.684	1.650	1.705	9.09
88)	T	1,4-Dichlorobe...	2.068	1.991	1.502	1.691	1.715	1.706	1.779	11.85
89)	T	n-Butylbenzene	2.648	2.873	2.241	2.579	3.045	3.035	2.737	11.33
90)	T	Hexachloroethane	0.521	0.575	0.446	0.503	0.592	0.596	0.539	10.96
91)	T	1,2-Dichlorobe...	1.845	1.901	1.497	1.650	1.649	1.639	1.697	8.80
92)	T	1,2-Dibromo-3-...	0.261	0.284	0.245	0.283	0.289	0.288	0.275	6.50
93)	T	1,2,4-Trichlor...	1.215	1.130	0.889	1.055	1.112	1.147	1.091	10.25
94)	T	Hexachlorobuta...	0.643	0.556	0.361	0.380	0.490	0.476	0.484	22.01
95)	T	Naphthalene	3.190	3.306	3.045	3.620	3.801	3.772	3.456	9.22
96)	T	1,2,3-Trichlor...	1.219	1.104	0.900	1.042	1.088	1.124	1.080	9.79

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020116.D
Acq On : 18 Dec 2020 10:28
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 12:24:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	293090	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.824	114	479963	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	439653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	194365	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.00	ug/l	
Spiked Amount 50.000	Range 61 - 141		Recovery =	0.00%#		
35) Dibromofluoromethane	0.000	113	0d	0.00	ug/l	
Spiked Amount 50.000	Range 69 - 133		Recovery =	0.00%#		
50) Toluene-d8	0.000	98	0d	0.00	ug/l	
Spiked Amount 50.000	Range 65 - 126		Recovery =	0.00%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.00	ug/l	
Spiked Amount 50.000	Range 58 - 135		Recovery =	0.00%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	3085	1.14	ug/l	96
3) Chloromethane	1.313	50	4058	1.25	ug/l	99
4) Vinyl Chloride	1.392	62	4337	1.28	ug/l	99
6) Chloroethane	1.709	64	2611	1.26	ug/l	98
7) Trichlorofluoromethane	1.916	101	5529	1.19	ug/l	96
8) Diethyl Ether	2.166	74	2291	1.12	ug/l	82
9) 1,1,2-Trichlorotrifluo...	2.361	101	3258	1.23	ug/l	97
12) 1,1-Dichloroethene	2.355	96	3323	1.23	ug/l	96
14) Allyl chloride	2.703	41	5757	1.23	ug/l	95
15) Acrylonitrile	3.105	53	10407	5.74	ug/l	98
16) Acetone	2.416	43	11138	7.40	ug/l	96
17) Carbon Disulfide	2.550	76	10352	1.33	ug/l #	92
18) Methyl Acetate	2.745	43	4336	1.19	ug/l	98
19) Methyl tert-butyl Ether	3.160	73	10827	1.07	ug/l	100
20) Methylene Chloride	2.831	84	4835	1.25	ug/l	97
21) trans-1,2-Dichloroethene	3.142	96	4079	1.28	ug/l #	92
22) Diisopropyl ether	3.824	45	10392	1.09	ug/l	94
23) Vinyl Acetate	3.776	43	41400	5.06	ug/l	97
24) 1,1-Dichloroethane	3.666	63	6577	1.16	ug/l	97
25) 2-Butanone	4.635	43	13388	5.78	ug/l	98
26) 2,2-Dichloropropane	4.544	77	5419	1.12	ug/l	99
27) cis-1,2-Dichloroethene	4.556	96	4201	1.12	ug/l	90
28) Bromochloromethane	4.977	49	2883	1.07	ug/l #	89
29) Tetrahydrofuran	5.092	42	8290	5.56	ug/l	93
30) Chloroform	5.172	83	6552	1.12	ug/l	91
32) 1,1,1-Trichloroethane	5.464	97	5588	1.13	ug/l #	50
36) 1,1-Dichloropropene	5.763	75	5098	1.18	ug/l	95
37) Ethyl Acetate	4.788	43	5319	1.18	ug/l #	88
38) Carbon Tetrachloride	5.745	117	4636	1.10	ug/l	96
39) Methylcyclohexane	7.434	83	5693	1.13	ug/l	97
40) Benzene	6.104	78	15499	1.15	ug/l	97
41) Methacrylonitrile	5.001	41	2504	1.01	ug/l	96
42) 1,2-Dichloroethane	6.159	62	5066	1.09	ug/l	96
43) Isopropyl Acetate	6.403	43	7591	1.04	ug/l	96
44) Trichloroethene	7.190	130	4294	1.23	ug/l	99
45) 1,2-Dichloropropane	7.482	63	3771	1.11	ug/l	93
46) Dibromomethane	7.635	93	2789	1.22	ug/l	93

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020116.D
Acq On : 18 Dec 2020 10:28
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM

Quant Time: Dec 18 12:24:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) Bromodichloromethane	7.872	83	4721	1.04	ug/l	#	97
48) Methyl methacrylate	7.744	41	3485	0.97	ug/l		97
49) 1,4-Dioxane	7.714	88	1726	20.03	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.616	43	22074	4.94	ug/l		95
52) Toluene	8.763	92	8636	1.03	ug/l		97
53) t-1,3-Dichloropropene	9.019	75	4809	0.96	ug/l		100
54) cis-1,3-Dichloropropene	8.409	75	5380	0.98	ug/l	#	90
55) 1,1,2-Trichloroethane	9.195	97	3774	1.10	ug/l		97
56) Ethyl methacrylate	9.153	69	4374	0.85	ug/l		95
57) 1,3-Dichloropropane	9.348	76	6196	1.06	ug/l		96
58) 2-Chloroethyl Vinyl ether	8.287	63	14261	5.22	ug/l		99
59) 2-Hexanone	9.470	43	15971	4.63	ug/l		97
60) Dibromochloromethane	9.561	129	3283	0.95	ug/l		99
61) 1,2-Dibromoethane	9.647	107	3834	1.06	ug/l		100
64) Tetrachloroethene	9.317	164	3920	1.33	ug/l		95
65) Chlorobenzene	10.116	112	9845	1.12	ug/l		92
66) 1,1,1,2-Tetrachloroethane	10.201	131	3242	1.02	ug/l	#	67
67) Ethyl Benzene	10.232	91	16397	1.05	ug/l		100
68) m/p-Xylenes	10.342	106	11347	1.93	ug/l		96
69) o-Xylene	10.683	106	5677	1.00	ug/l		97
70) Styrene	10.695	104	8870	0.93	ug/l		99
71) Bromoform	10.841	173	2323	0.94	ug/l	#	96
73) Isopropylbenzene	11.000	105	14078	1.06	ug/l		99
74) N-amyl acetate	10.878	43	4969	0.92	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.250	83	5310	1.12	ug/l		95
76) 1,2,3-Trichloropropane	11.280	75	5207m	1.18	ug/l		
77) Bromobenzene	11.238	156	4078	1.19	ug/l		99
78) n-propylbenzene	11.341	91	16148	1.06	ug/l		99
79) 2-Chlorotoluene	11.402	91	10443	1.11	ug/l		97
80) 1,3,5-Trimethylbenzene	11.488	105	11071	0.99	ug/l		97
82) 4-Chlorotoluene	11.494	91	12091	1.09	ug/l		99
83) tert-Butylbenzene	11.750	119	11121	1.02	ug/l		94
84) 1,2,4-Trimethylbenzene	11.792	105	11225	0.99	ug/l		99
85) sec-Butylbenzene	11.927	105	12833	1.03	ug/l		100
86) p-Isopropyltoluene	12.049	119	11418	1.00	ug/l		94
87) 1,3-Dichlorobenzene	12.006	146	7285	1.16	ug/l		98
88) 1,4-Dichlorobenzene	12.079	146	8039m	1.26	ug/l		
89) n-Butylbenzene	12.372	91	10293	1.02	ug/l		99
90) Hexachloroethane	12.579	117	2027	1.03	ug/l		93
91) 1,2-Dichlorobenzene	12.372	146	7174	1.17	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.981	75	1014	0.99	ug/l		92
93) 1,2,4-Trichlorobenzene	13.628	180	4723	1.19	ug/l		98
94) Hexachlorobutadiene	13.762	225	2501	1.45	ug/l		94
95) Naphthalene	13.817	128	12402	0.96	ug/l		98
96) 1,2,3-Trichlorobenzene	13.999	180	4740	1.22	ug/l		96

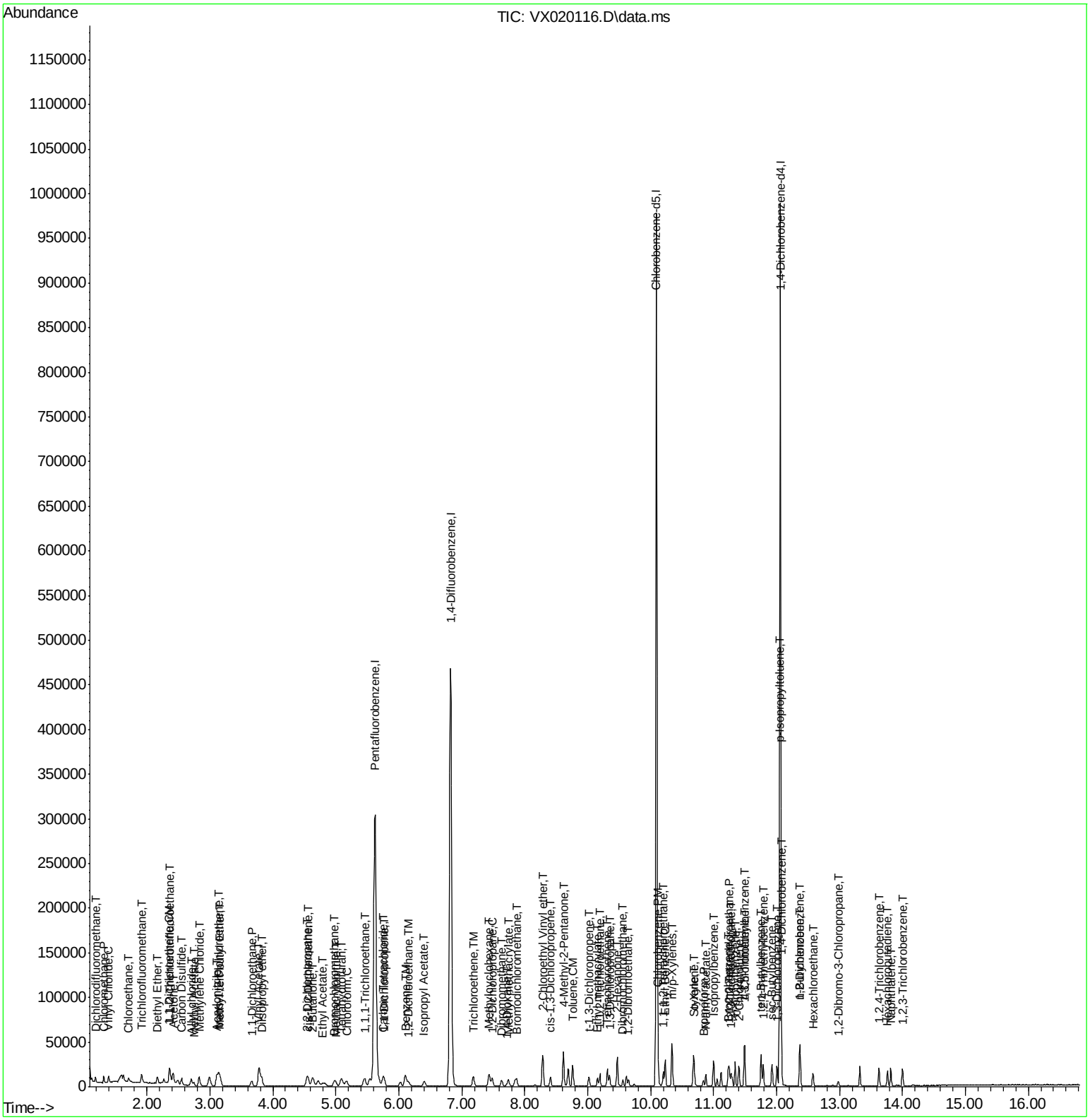
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020116.D
Acq On : 18 Dec 2020 10:28
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 12:24:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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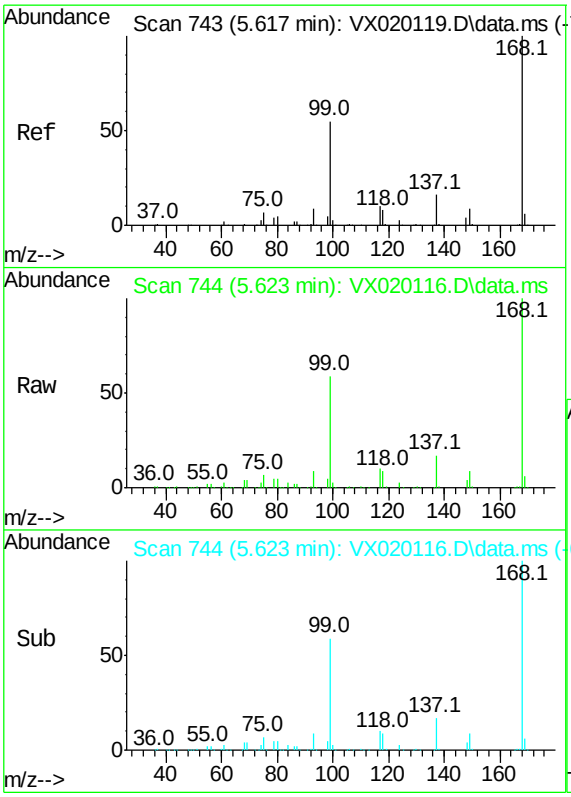
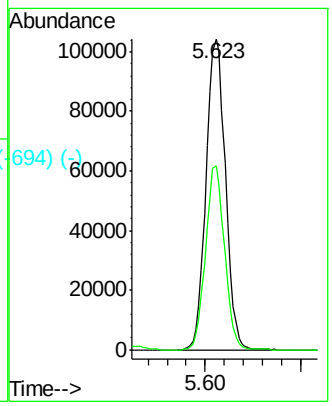
12/21/2020 3:57:52 PM

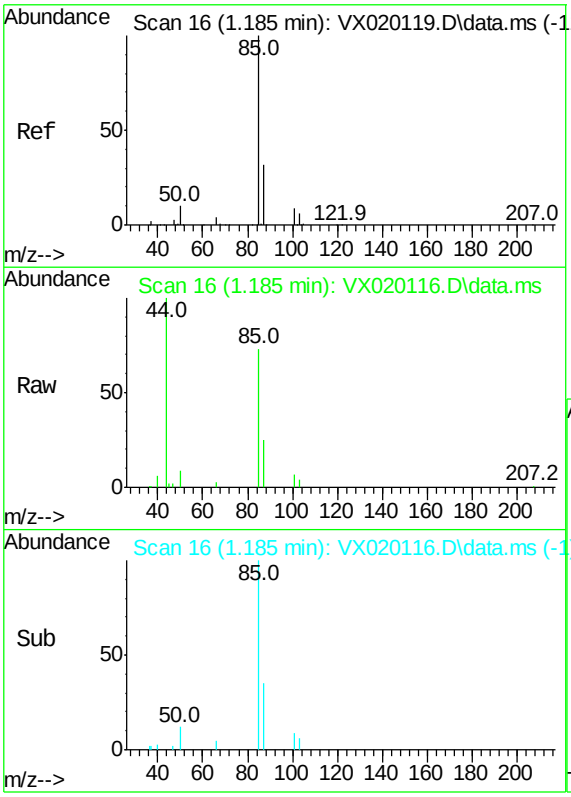


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 744
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:168 Resp: 293090

Ion	Ratio	Lower	Upper
168	100		
99	59.1	45.8	68.6

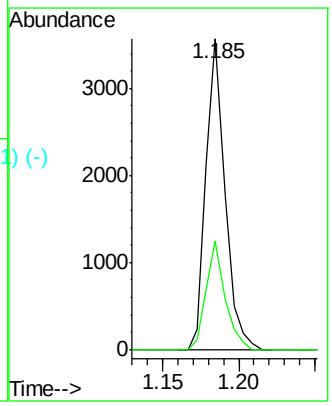




#2
Dichlorodifluoromethane
Concen: 1.14 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

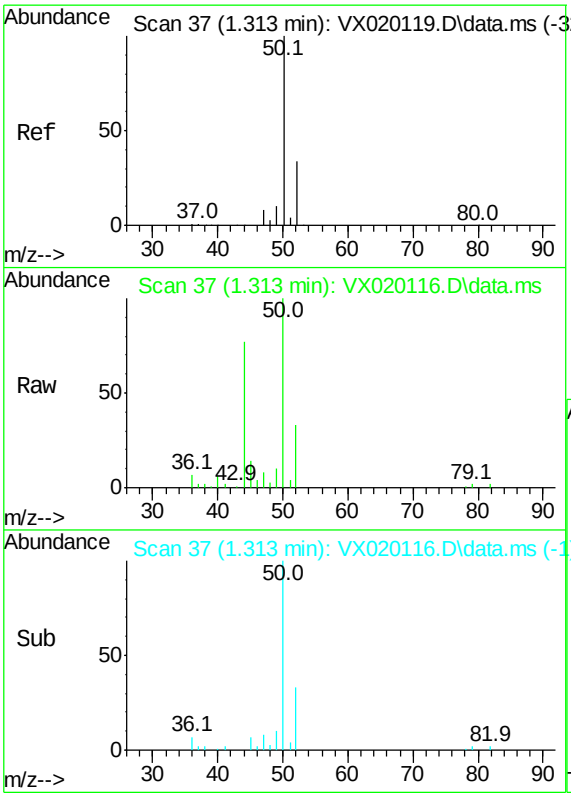
Tgt Ion: 85 Resp: 3085

Ion	Ratio	Lower	Upper
85	100		
87	34.8	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

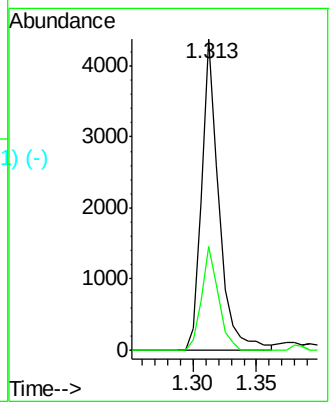
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM

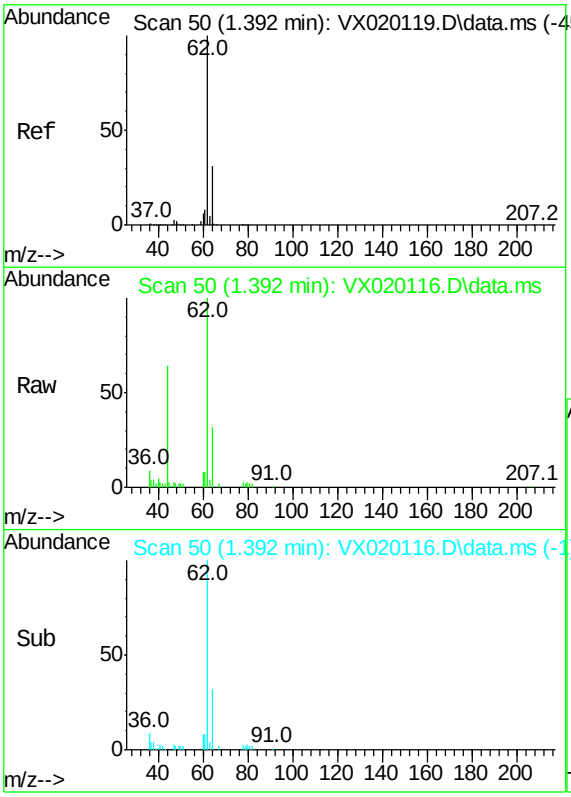


#3
Chloromethane
Concen: 1.25 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 50 Resp: 4058

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.4	39.6

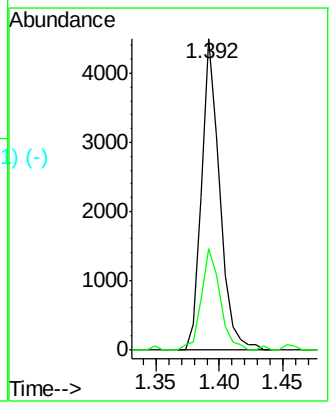




#4
Vinyl Chloride
Concen: 1.28 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 62 Resp: 4337

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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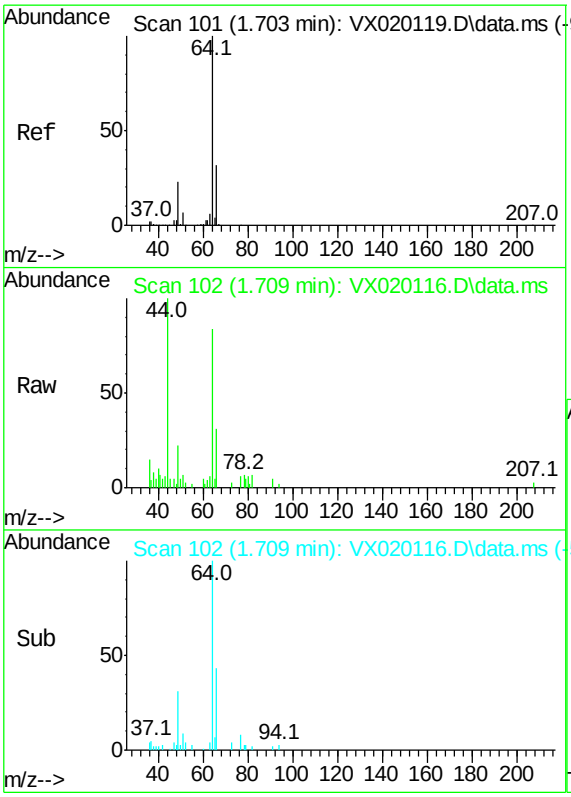
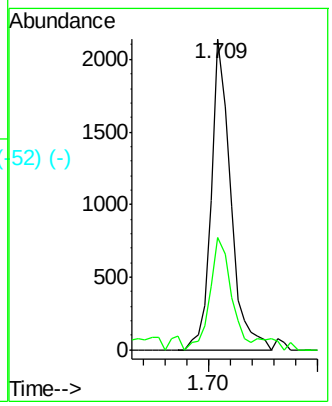
12/21/2020 3:57:52 PM

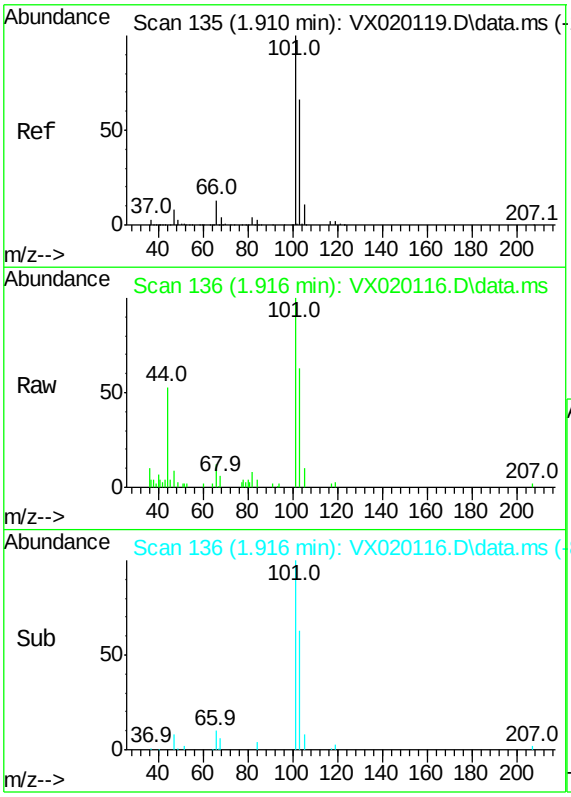


#6
Chloroethane
Concen: 1.26 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 64 Resp: 2611

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.4	38.0

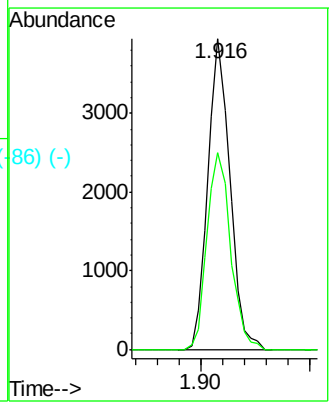




#7
Trichlorofluoromethane
Concen: 1.19 ug/l
RT: 1.916 min Scan# 136
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

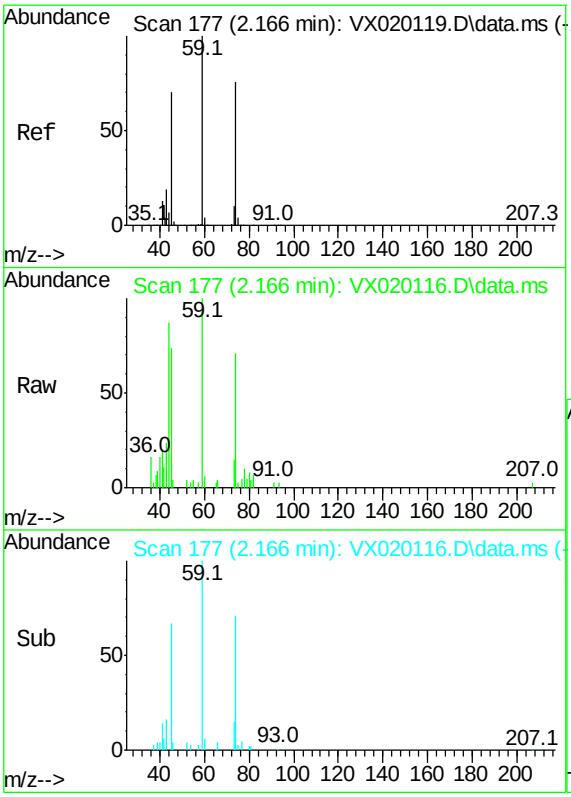
Tgt Ion:101 Resp: 5529

Ion	Ratio	Lower	Upper
101	100		
103	63.2	53.2	79.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

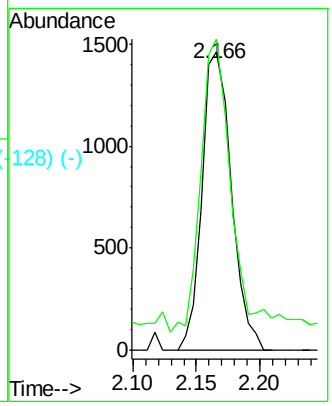
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM

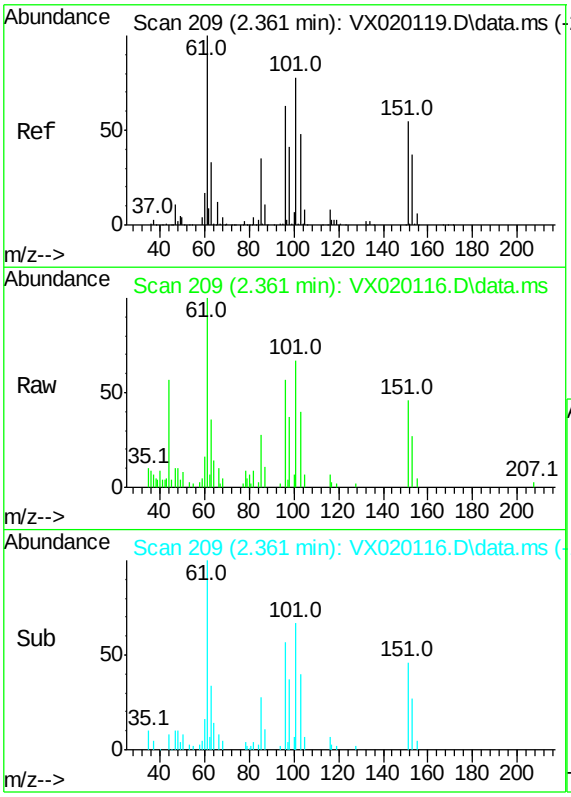


#8
Diethyl Ether
Concen: 1.12 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 74 Resp: 2291

Ion	Ratio	Lower	Upper
74	100		
45	106.1	44.5	133.5

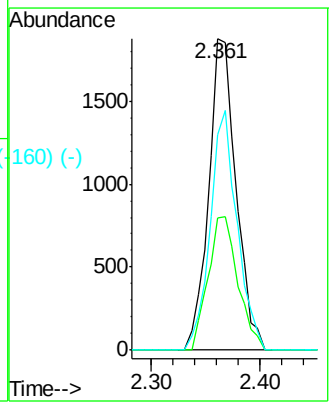




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.23 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

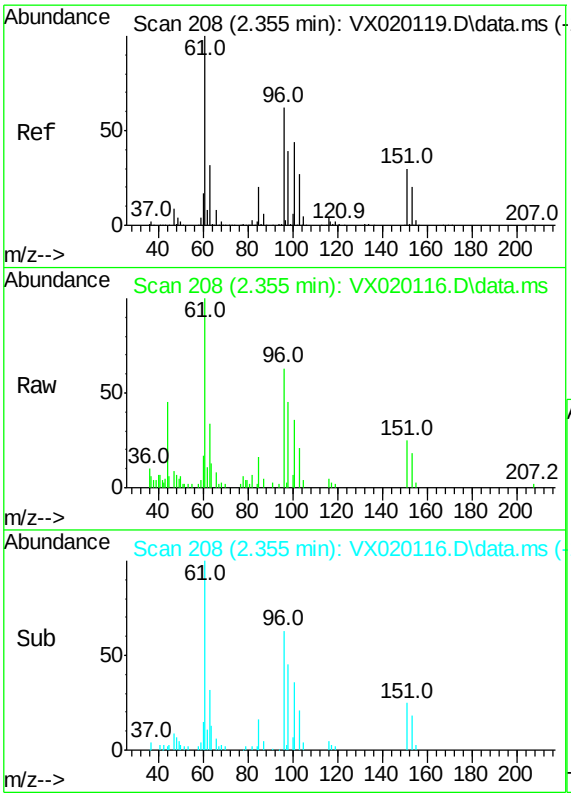
Tgt Ion:101 Resp: 3258

Ion	Ratio	Lower	Upper
101	100		
85	46.6	34.9	52.3
151	75.5	61.4	92.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

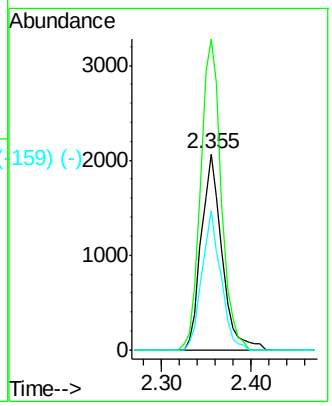
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM

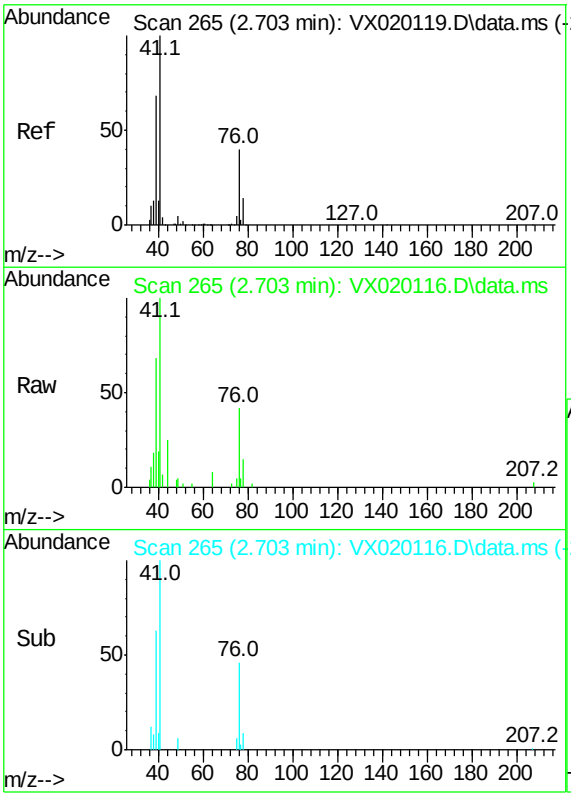


#12
1,1-Dichloroethene
Concen: 1.23 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 96 Resp: 3323

Ion	Ratio	Lower	Upper
96	100		
61	158.5	124.6	187.0
98	71.0	50.6	76.0

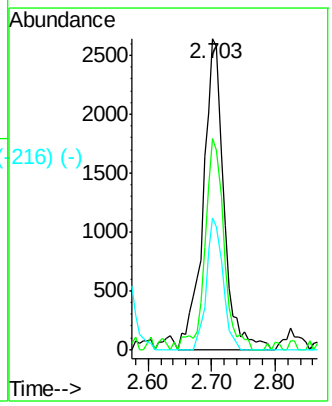




#11
Allyl chloride
Concen: 1.23 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 41 Resp: 5757

Ion	Ratio	Lower	Upper
41	100		
39	62.0	51.6	77.4
76	32.8	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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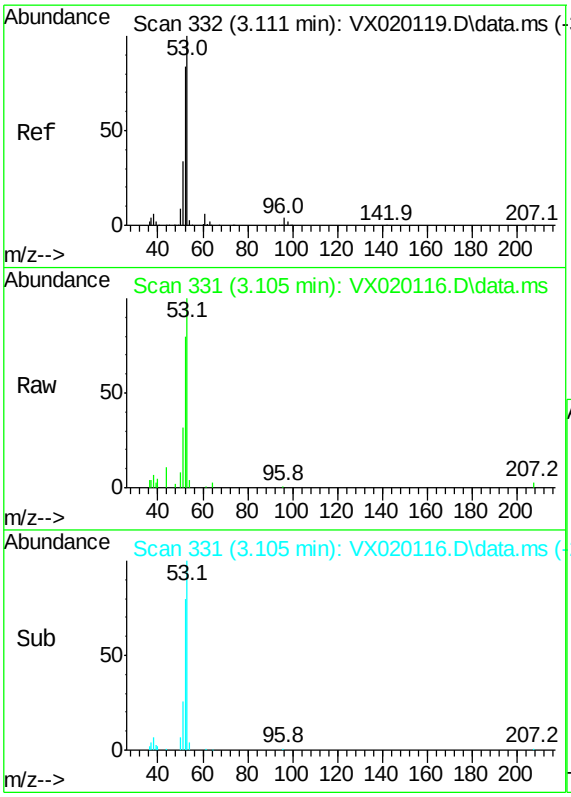
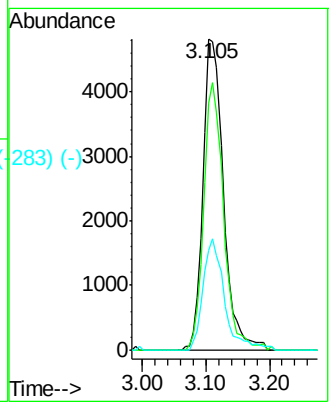
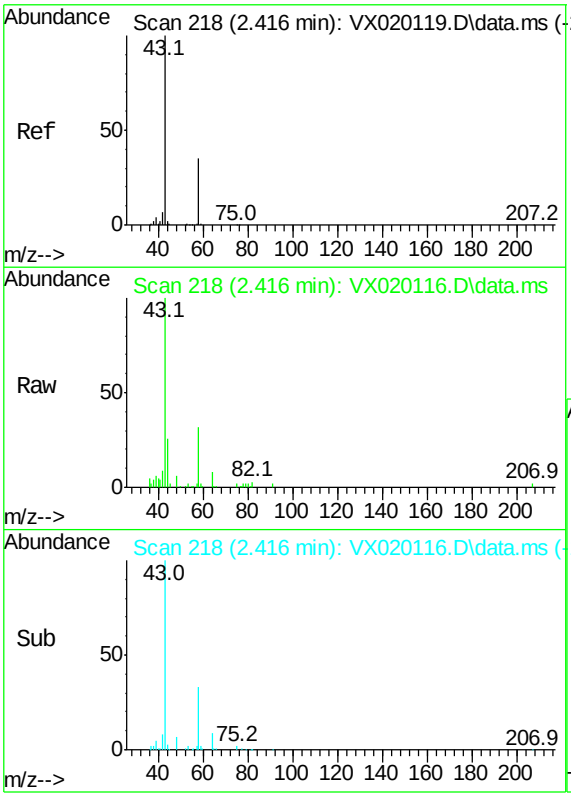


#15
Acrylonitrile
Concen: 5.74 ug/l
RT: 3.105 min Scan# 331
Delta R.T. -0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 53 Resp: 10407

Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.3	97.9
51	37.4	28.2	42.2

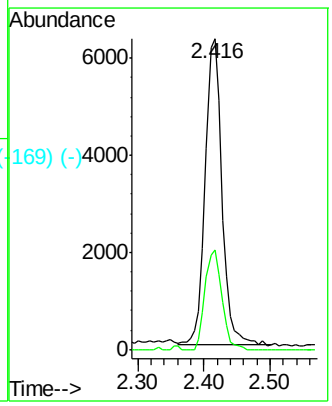




#16
Acetone
Concen: 7.40 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 11138

Ion	Ratio	Lower	Upper
43	100		
58	32.3	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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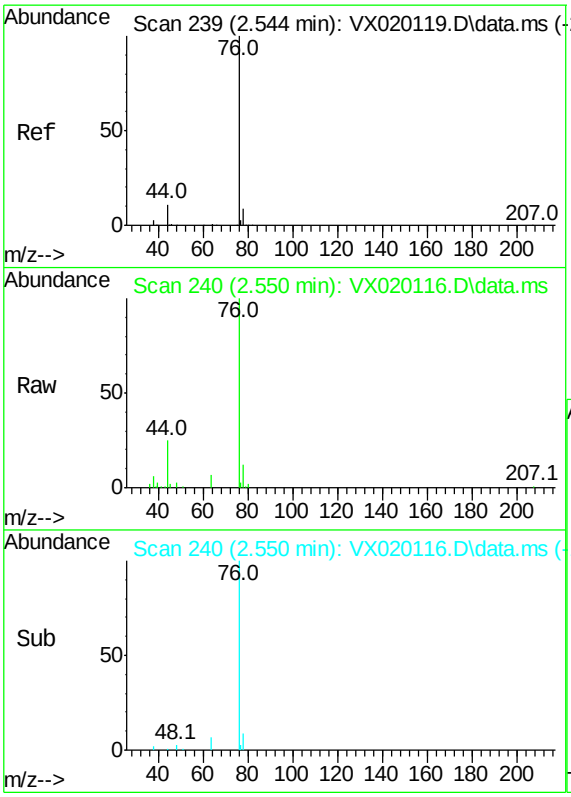
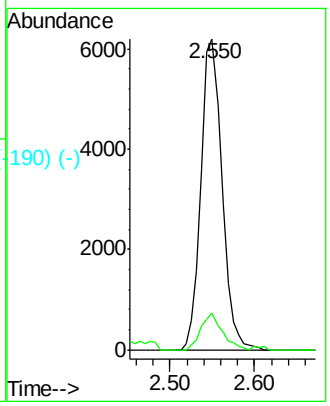
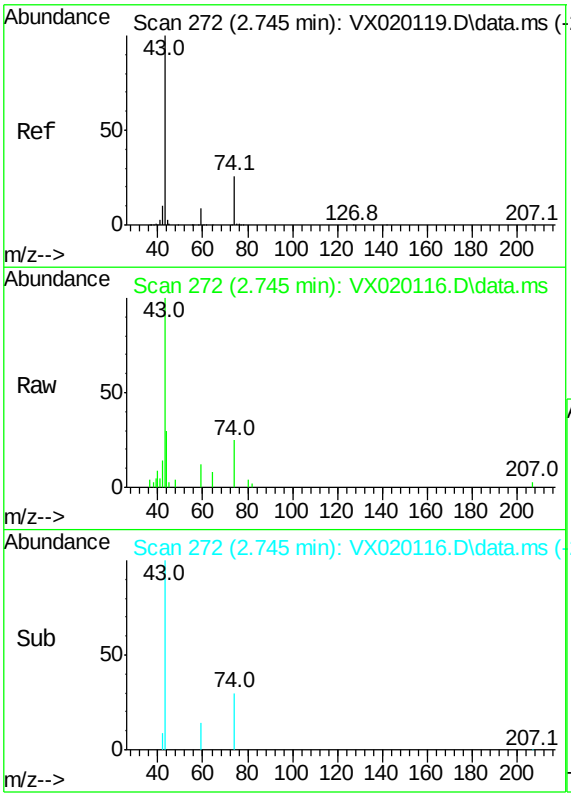


#17
Carbon Disulfide
Concen: 1.33 ug/l
RT: 2.550 min Scan# 240
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 76 Resp: 10352

Ion	Ratio	Lower	Upper
76	100		
78	11.7	7.2	10.8#

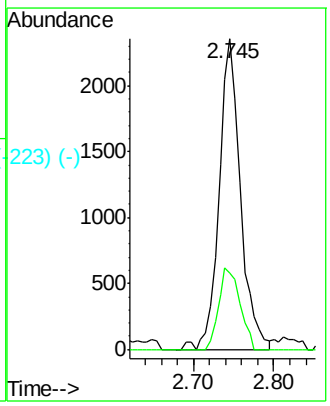




#18
Methyl Acetate
Concen: 1.19 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 4336

Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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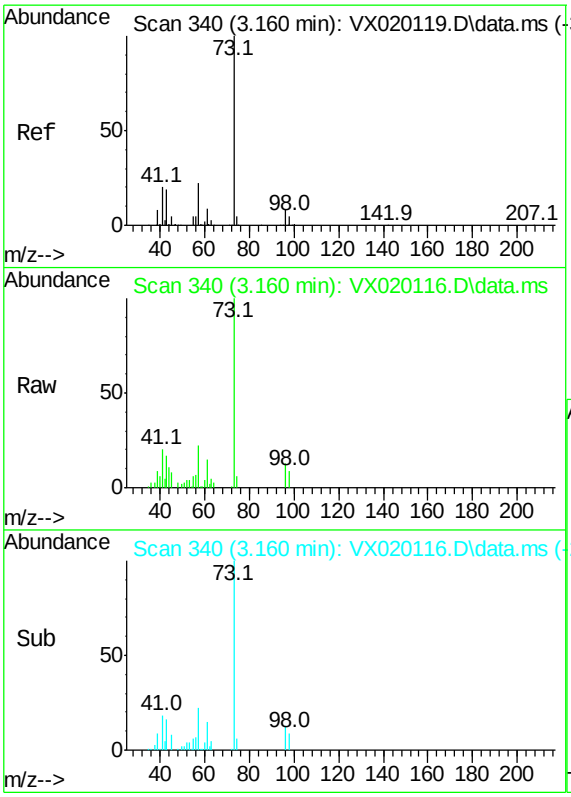
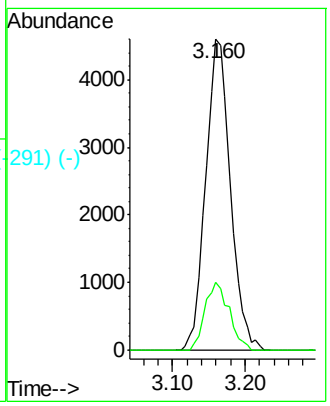
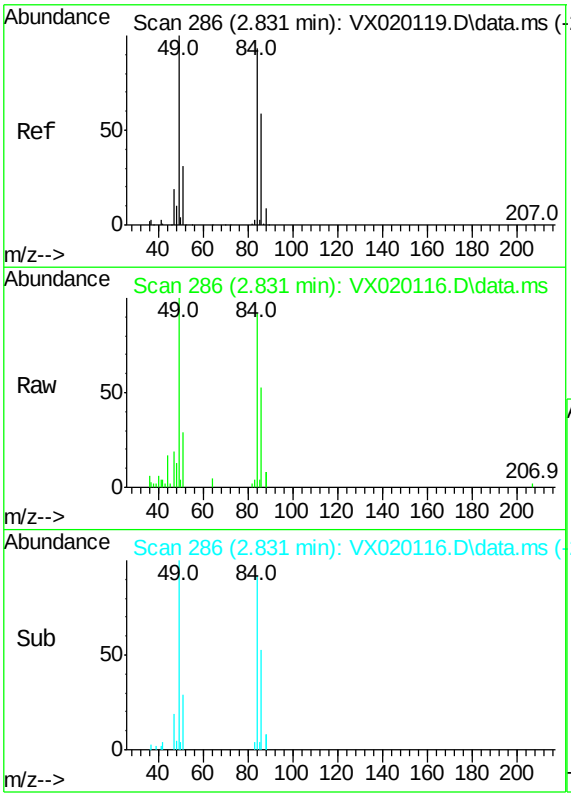


#19
Methyl tert-butyl Ether
Concen: 1.07 ug/l
RT: 3.160 min Scan# 340
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 73 Resp: 10827

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.1	25.7

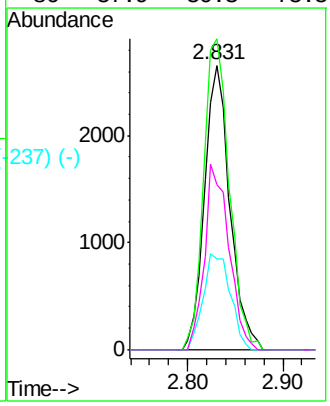




#20
Methylene Chloride
Concen: 1.25 ug/l
RT: 2.831 min Scan# 286
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 84 Resp: 4835

Ion	Ratio	Lower	Upper
84	100		
49	109.3	88.6	132.8
51	32.0	27.0	40.6
86	57.9	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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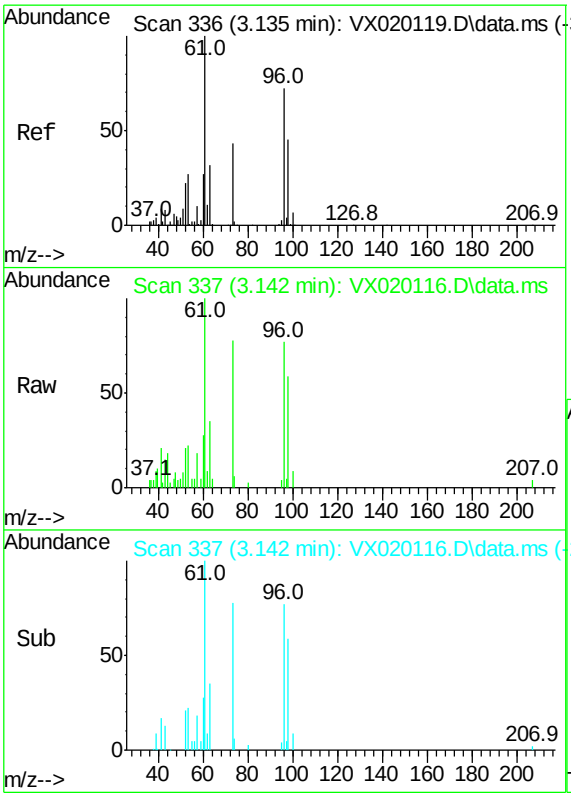
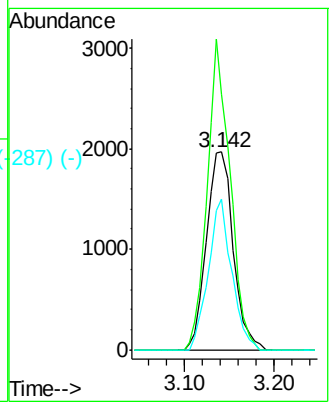
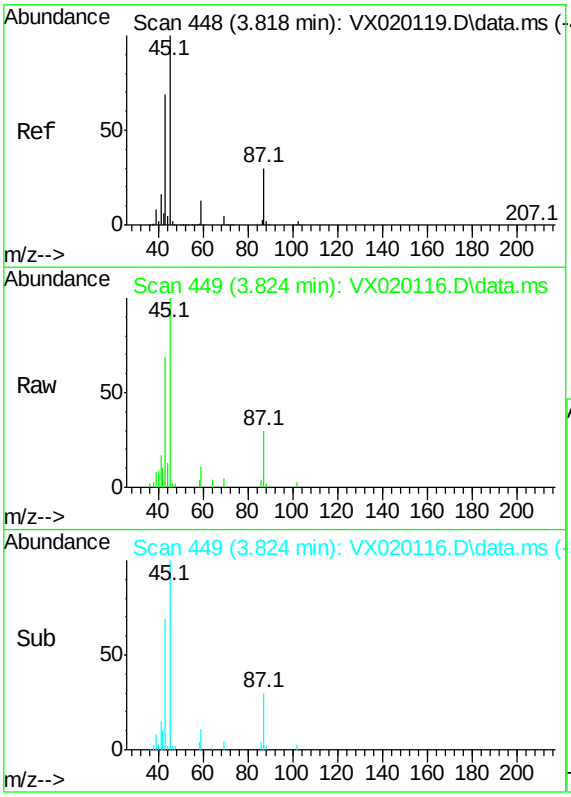


#21
trans-1,2-Dichloroethene
Concen: 1.28 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 96 Resp: 4079

Ion	Ratio	Lower	Upper
96	100		
61	129.6	107.7	161.5
98	76.0	50.4	75.6#

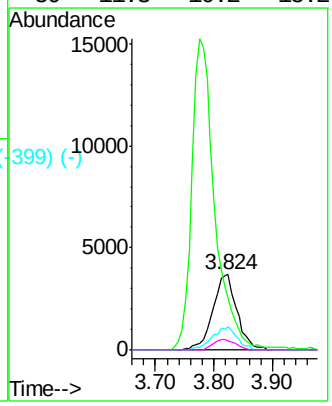




#22
Diisopropyl ether
Concen: 1.09 ug/l
RT: 3.824 min Scan# 449
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 45 Resp: 10392

Ion	Ratio	Lower	Upper
45	100		
43	66.7	58.0	87.0
87	30.0	25.4	38.0
59	11.3	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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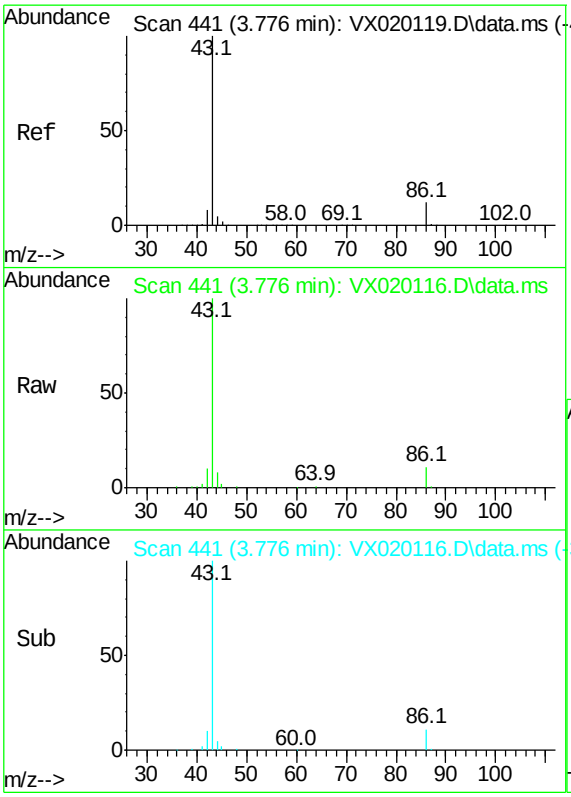
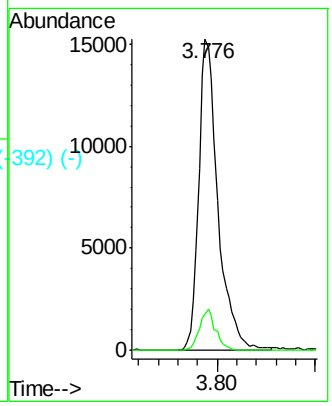
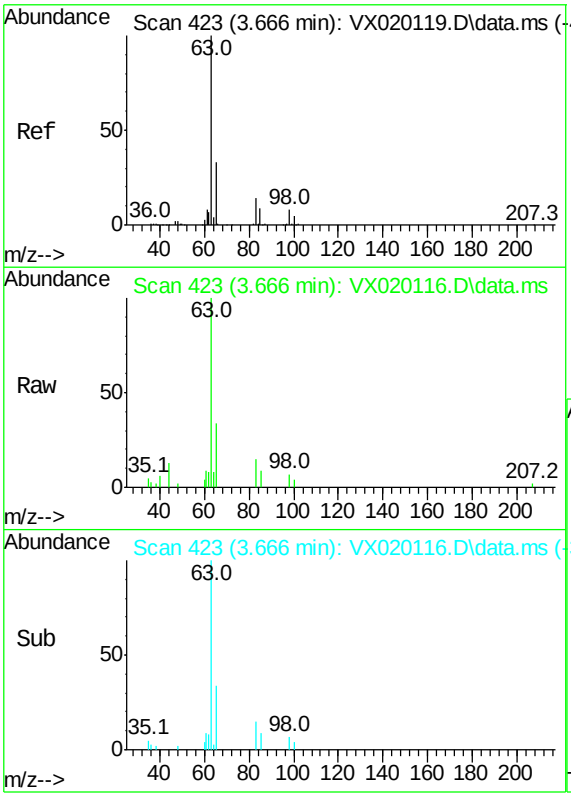


#23
Vinyl Acetate
Concen: 5.06 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 41400

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.9	14.9

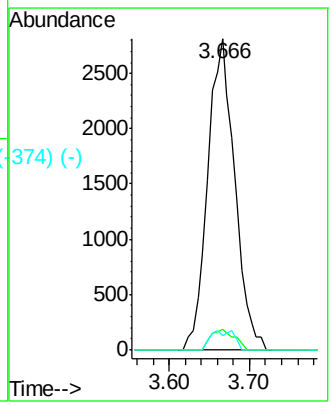




#24
1,1-Dichloroethane
Concen: 1.16 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 63 Resp: 6577

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.8	11.2
100	4.3	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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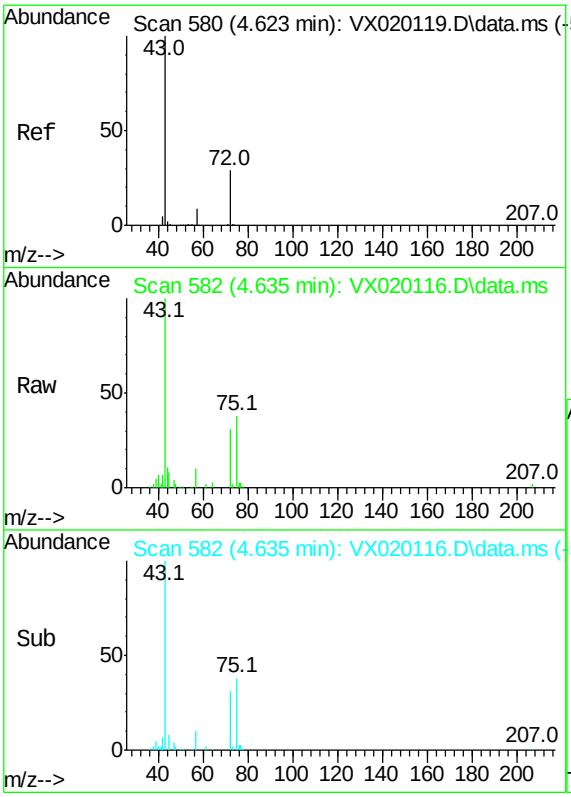
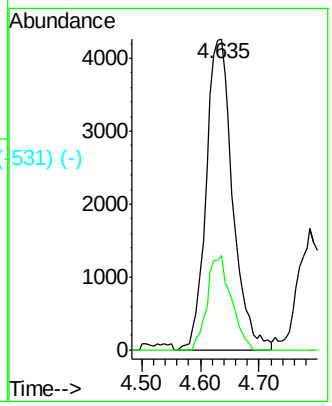
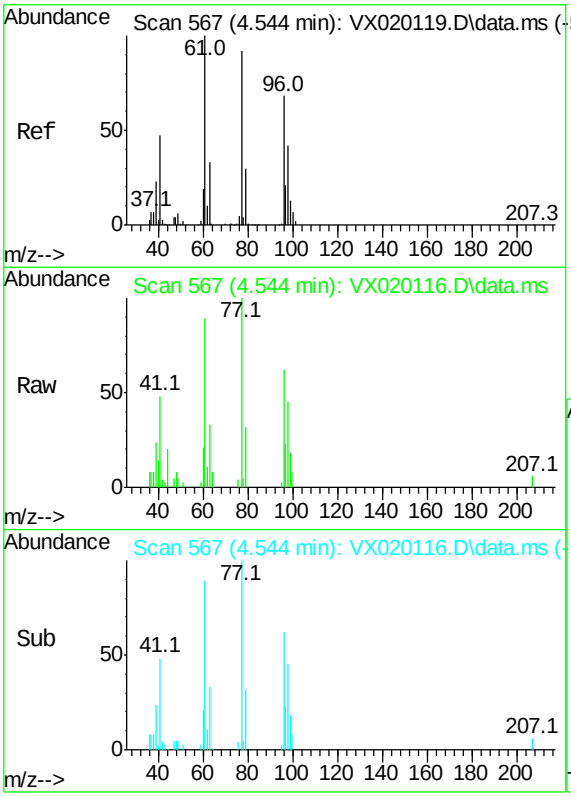


#25 (-)
2-Butanone
Concen: 5.78 ug/l
RT: 4.635 min Scan# 582
Delta R.T. 0.012 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 13388

Ion	Ratio	Lower	Upper
43	100		
72	30.6	23.7	35.5

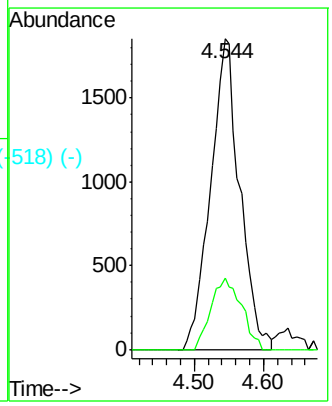




#26 (-)
2,2-Dichloropropane
Concen: 1.12 ug/l
RT: 4.544 min Scan# 567
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 77 Resp: 5419

Ion	Ratio	Lower	Upper
77	100		
97	23.9	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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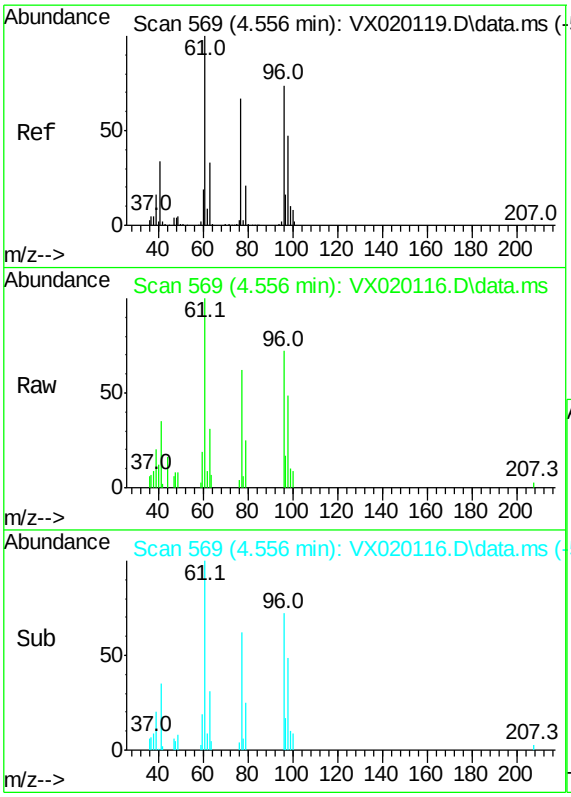
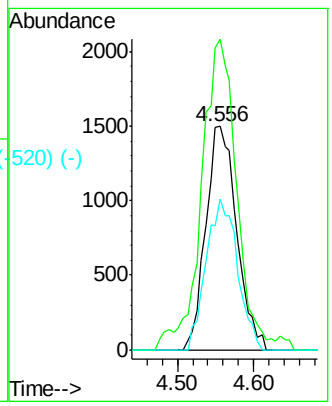
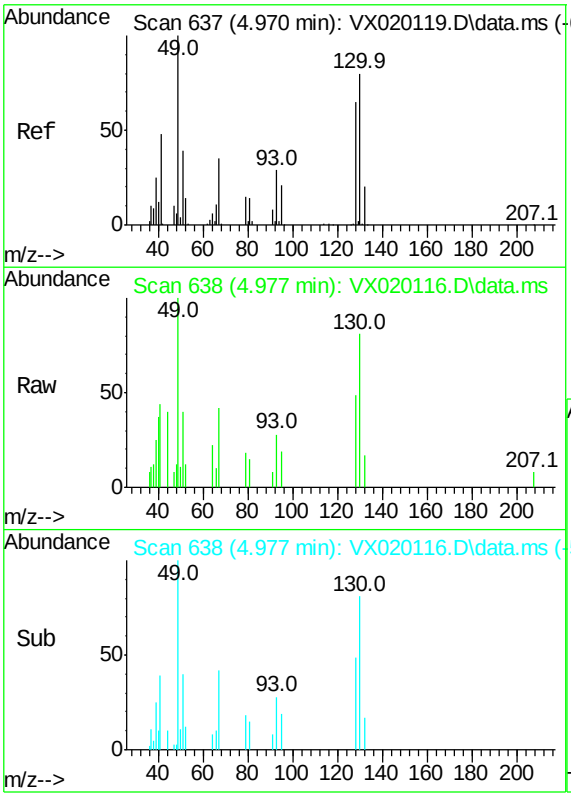


#27
cis-1,2-Dichloroethene
Concen: 1.12 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 96 Resp: 4201

Ion	Ratio	Lower	Upper
96	100		
61	157.3	0.0	285.6
98	68.4	0.0	129.6

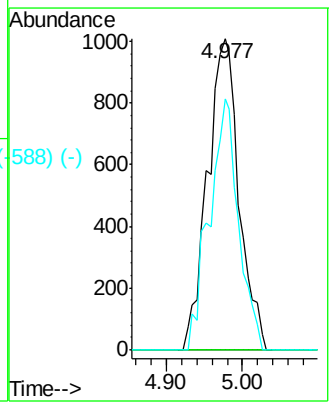




#28
Bromochloromethane
Concen: 1.07 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 49 Resp: 2883

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	74.7	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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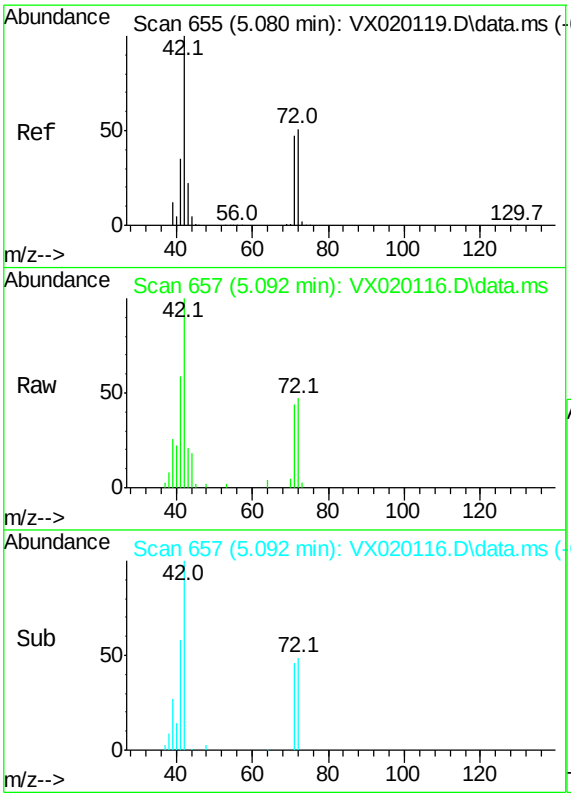
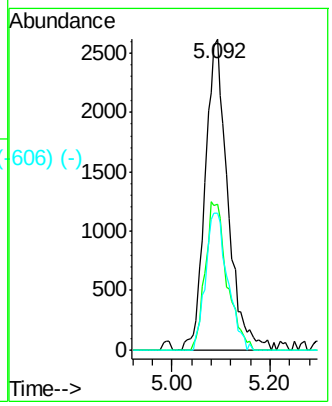
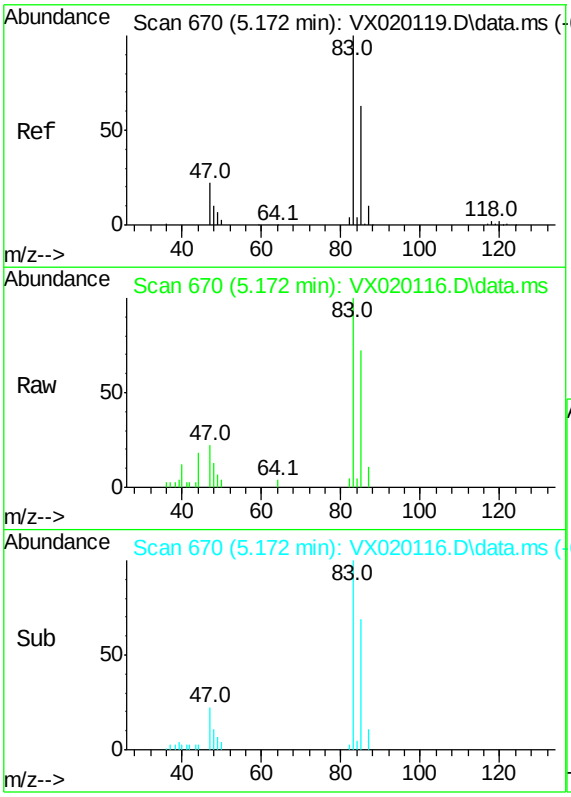


#29
Tetrahydrofuran
Concen: 5.56 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.012 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 42 Resp: 8290

Ion	Ratio	Lower	Upper
42	100		
72	46.4	41.7	62.5
71	43.5	38.4	57.6

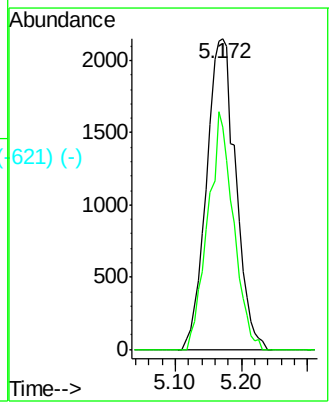




#30
Chloroform
Concen: 1.12 ug/l
RT: 5.172 min Scan# 670
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 83 Resp: 6552

Ion	Ratio	Lower	Upper
83	100		
85	71.7	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
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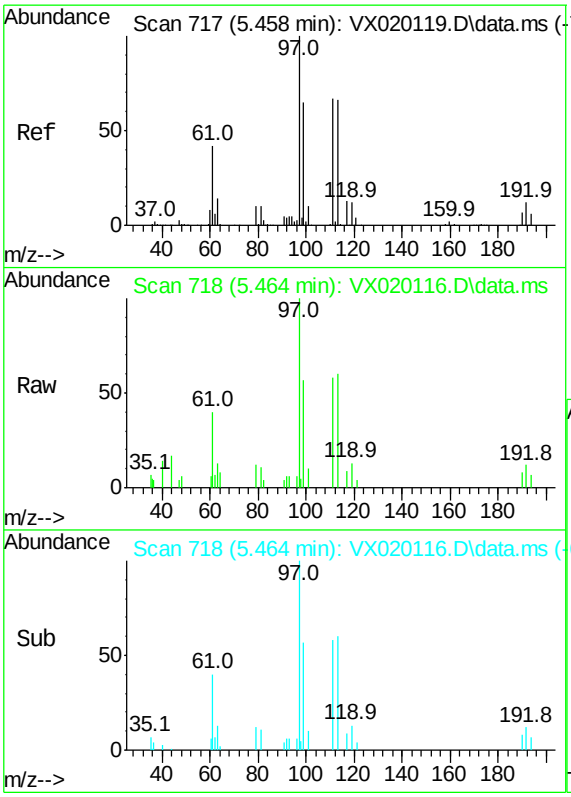
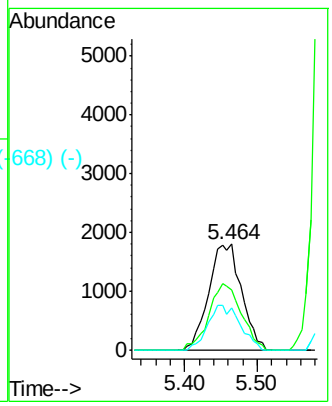
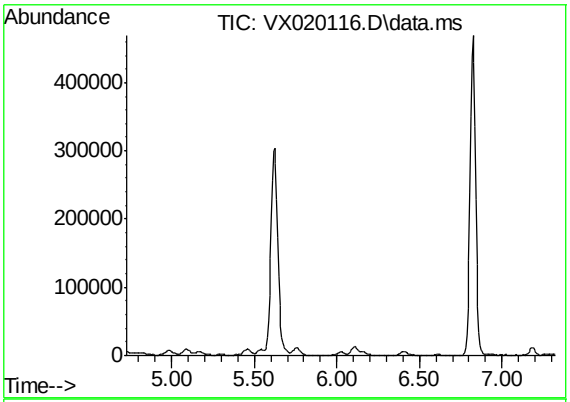


#32
1,1,1-Trichloroethane
Concen: 1.13 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 97 Resp: 5588

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	41.6	34.2	51.4



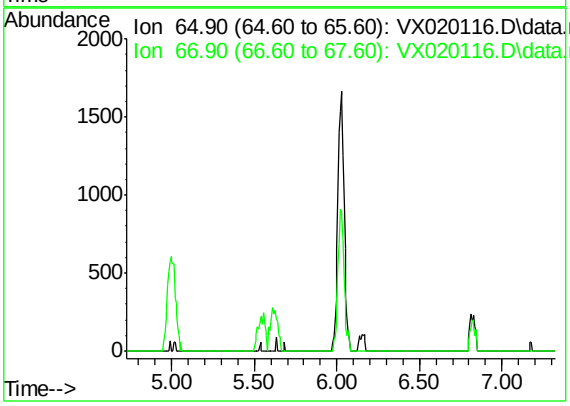


#33
1,2-Dichloroethane-d4
Concen: 0.00 ug/l
Expected RT: 6.03 min

Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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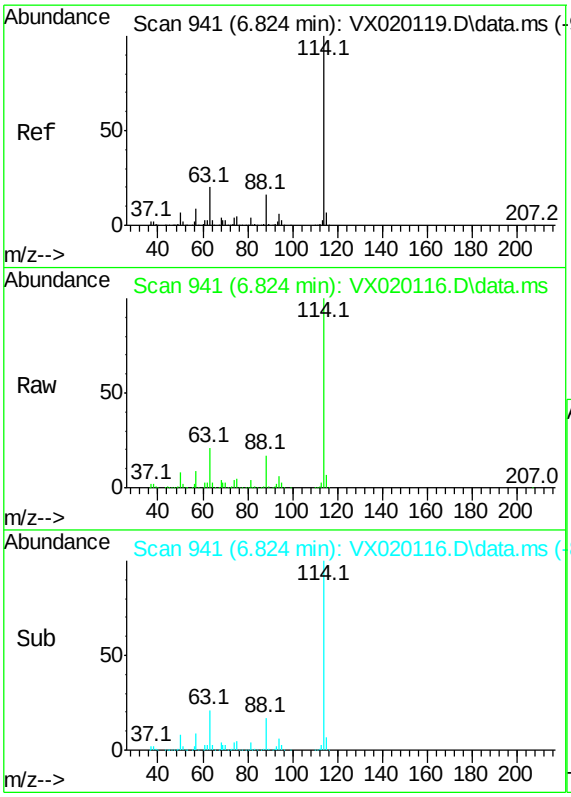
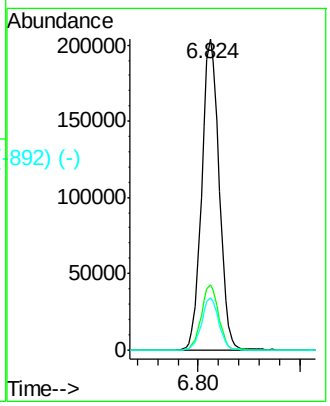
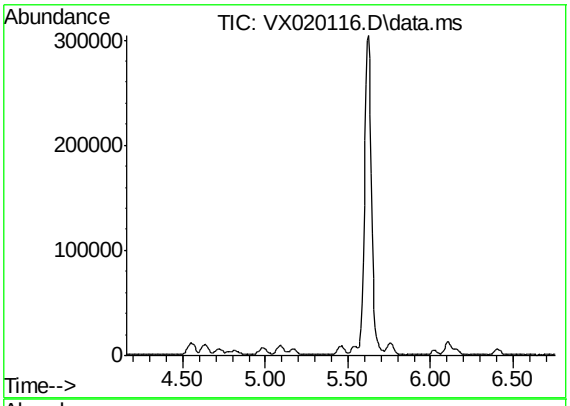


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.824 min Scan# 941
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:114 Resp: 479963

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.8
88	16.8	0.0	32.8



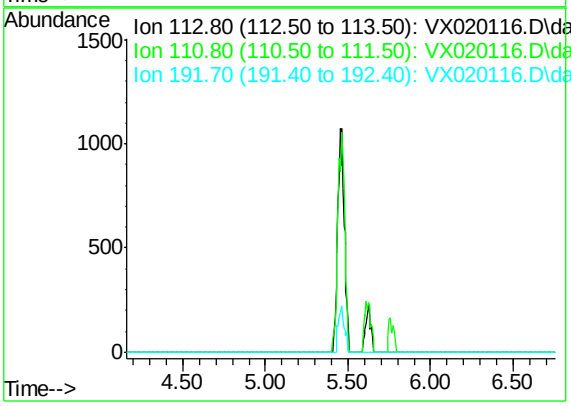


#35
Dibromofluoromethane
Concen: 0.00 ug/l
Expected RT: 5.46 min

Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.4
192	20.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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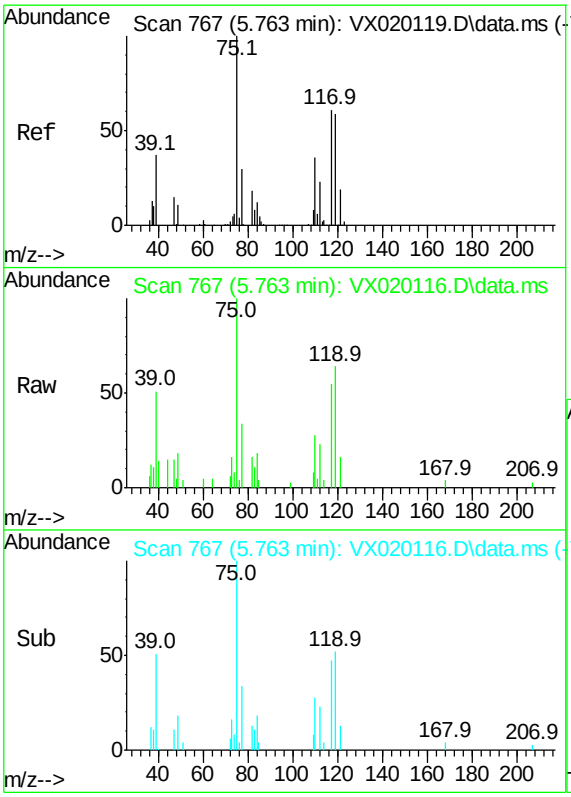
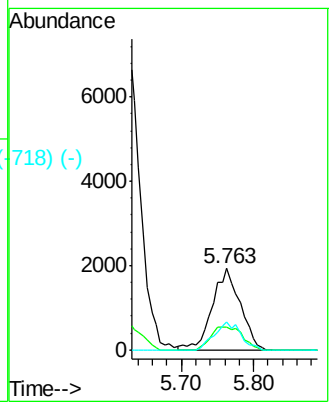
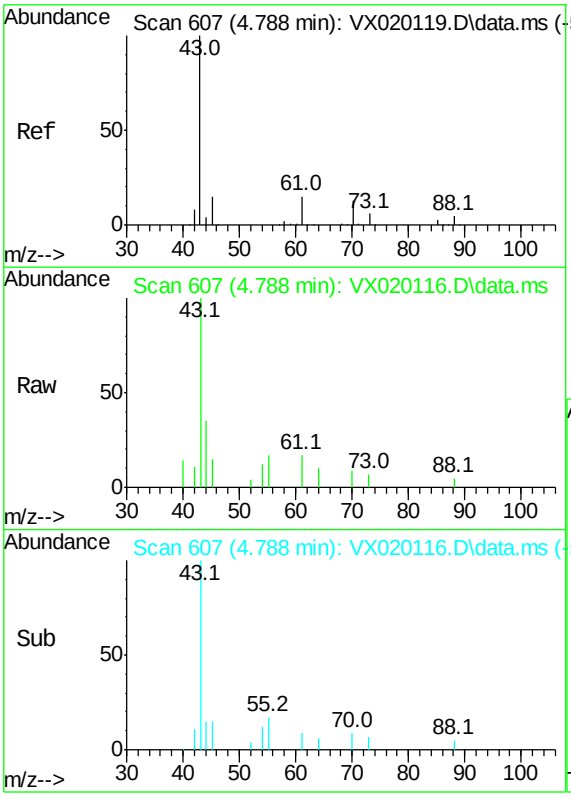


#36
1,1-Dichloropropene
Concen: 1.18 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 75 Resp: 5098

Ion	Ratio	Lower	Upper
75	100		
110	31.9	18.1	54.4
77	32.2	25.3	37.9

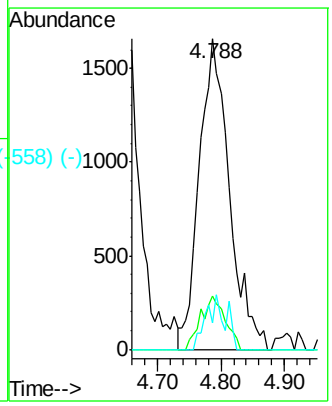




#37
Ethyl Acetate
Concen: 1.18 ug/l
RT: 4.788 min Scan# 607
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 5319

Ion	Ratio	Lower	Upper
43	100		
61	13.8	12.8	19.2
70	5.1	10.5	15.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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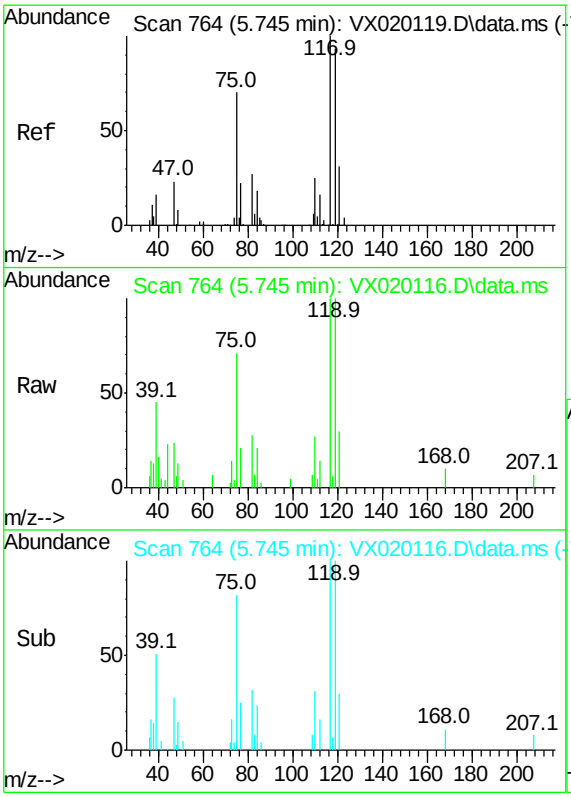
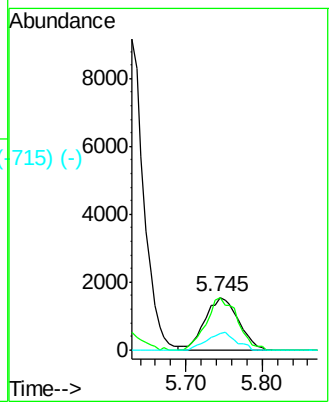
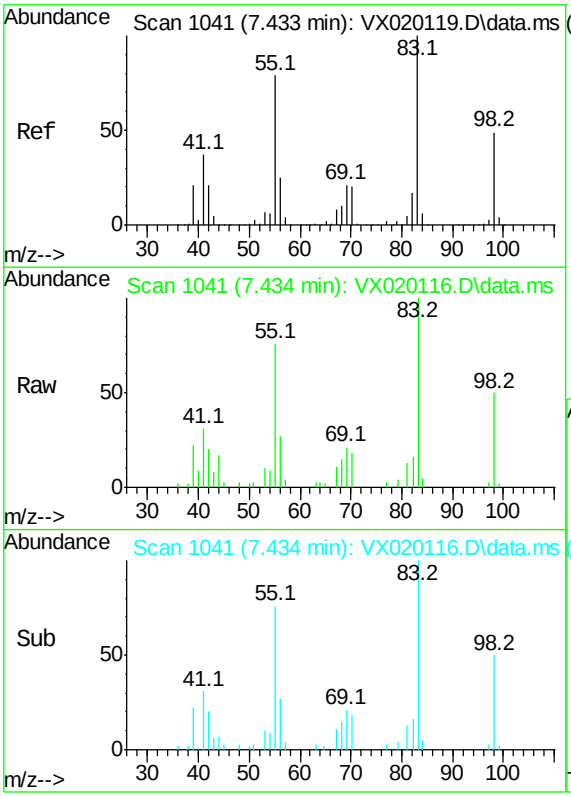


#38
Carbon Tetrachloride
Concen: 1.10 ug/l
RT: 5.745 min Scan# 764
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:117 Resp: 4636

Ion	Ratio	Lower	Upper
117	100		
119	100.2	76.2	114.2
121	30.4	24.8	37.2

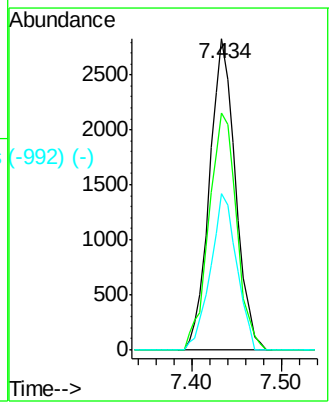




#39
Methylcyclohexane
Concen: 1.13 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 83 Resp: 5693

Ion	Ratio	Lower	Upper
83	100		
55	75.9	58.9	88.3
98	50.1	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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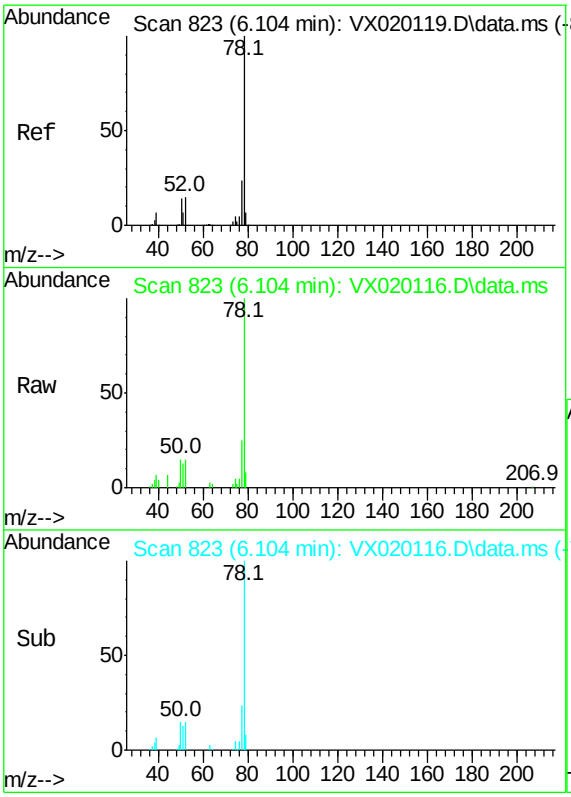
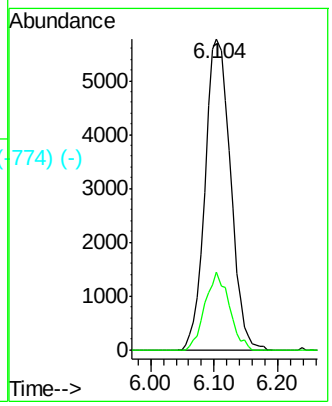
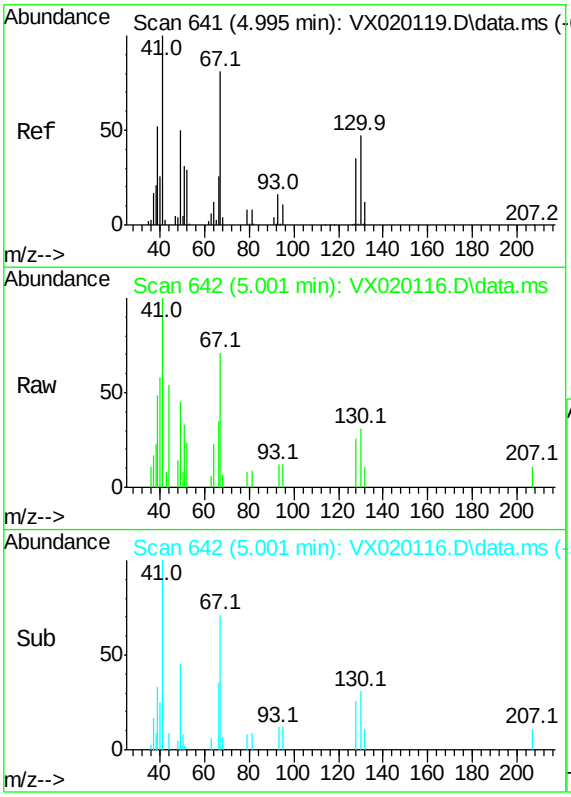


#40
Benzene
Concen: 1.15 ug/l
RT: 6.104 min Scan# 823
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 78 Resp: 15499

Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.9	28.3

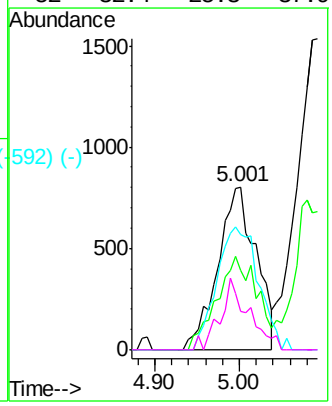




#41
Methacrylonitrile
Concen: 1.01 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 41 Resp: 2504

Ion	Ratio	Lower	Upper
41	100		
39	59.7	42.5	63.7
67	82.1	65.0	97.6
52	32.4	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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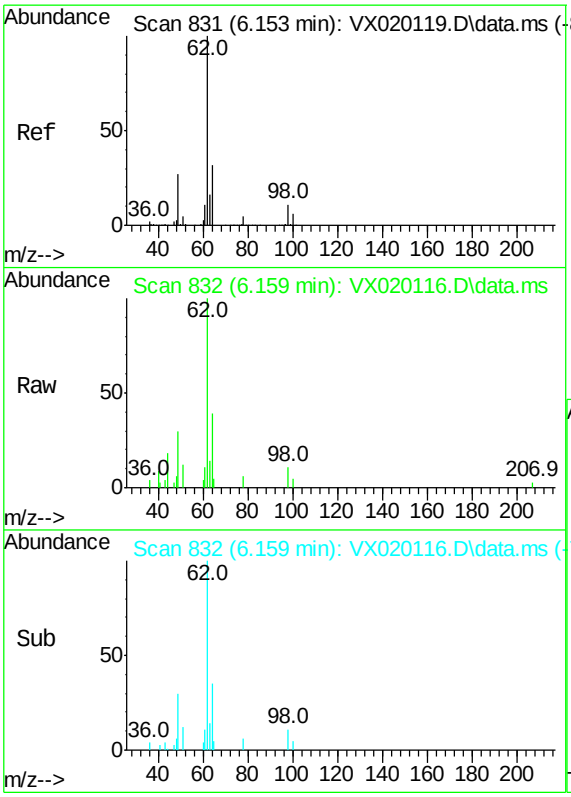
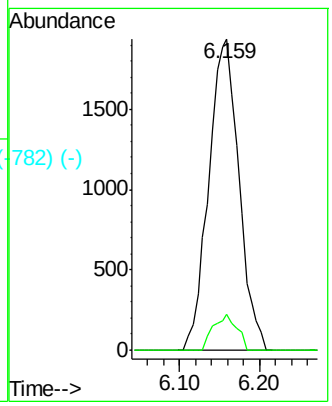
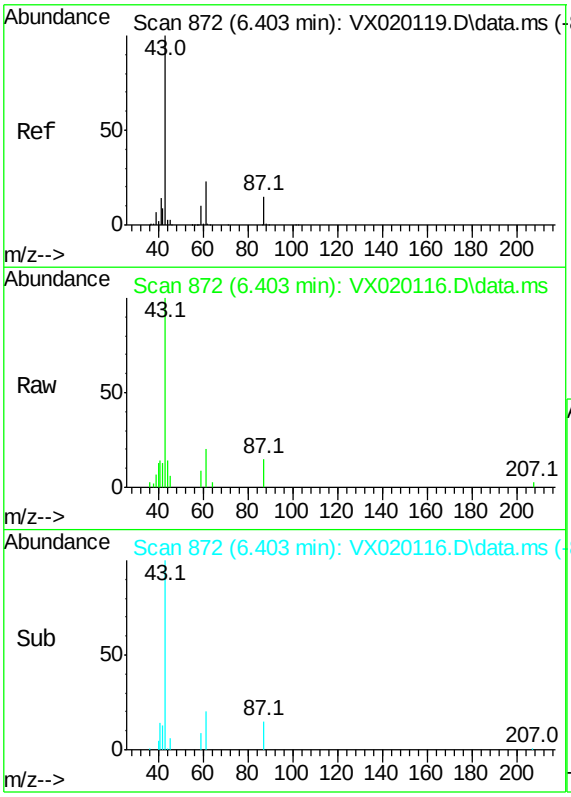


#42
1,2-Dichloroethane
Concen: 1.09 ug/l
RT: 6.159 min Scan# 832
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 62 Resp: 5066

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	20.2

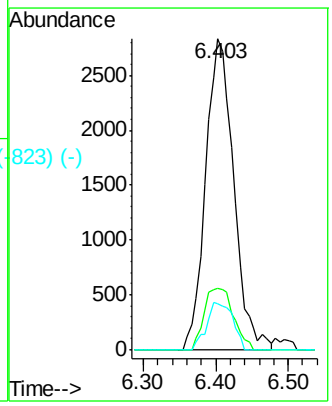




#43
Isopropyl Acetate
Concen: 1.04 ug/l
RT: 6.403 min Scan# 872
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 7591

Ion	Ratio	Lower	Upper
43	100		
61	20.5	18.2	27.4
87	14.0	12.5	18.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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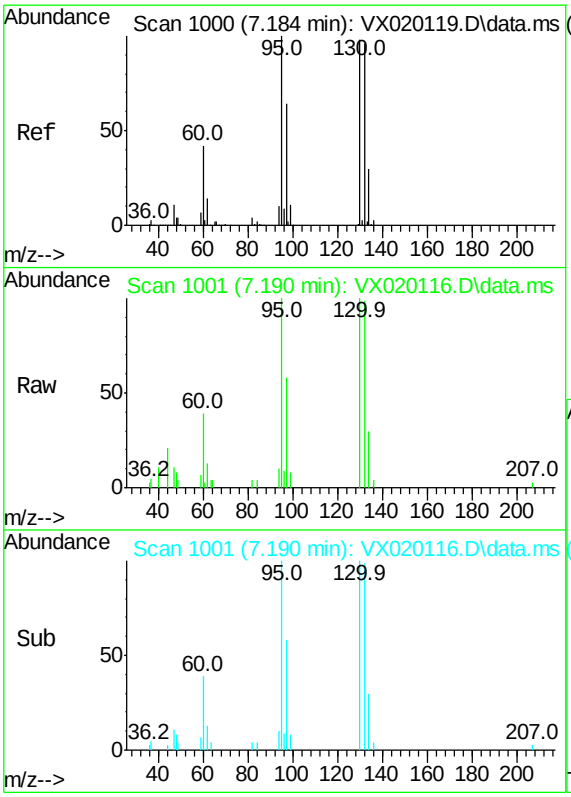
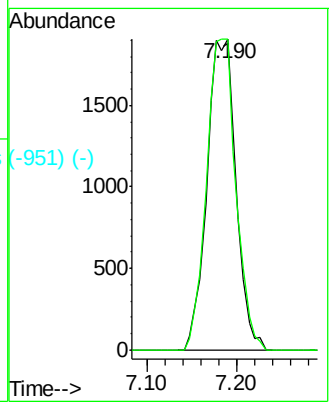
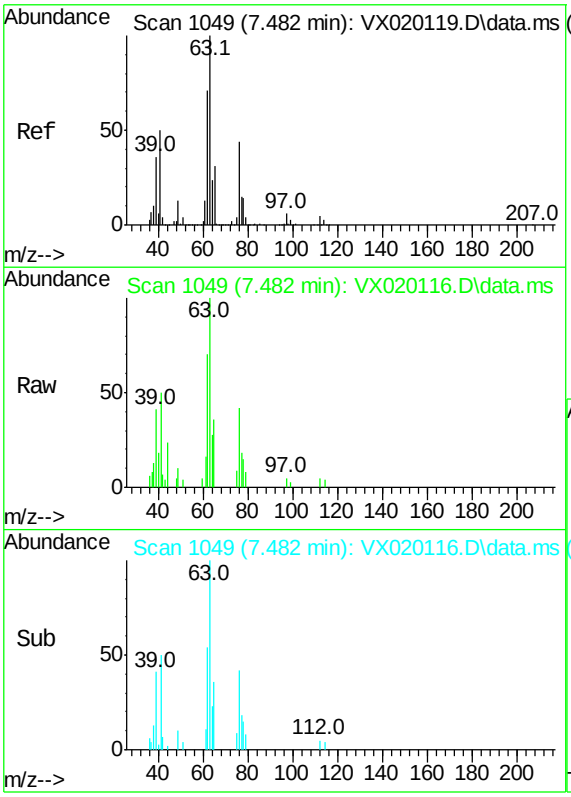


#44
Trichloroethene
Concen: 1.23 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:130 Resp: 4294

Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	198.0

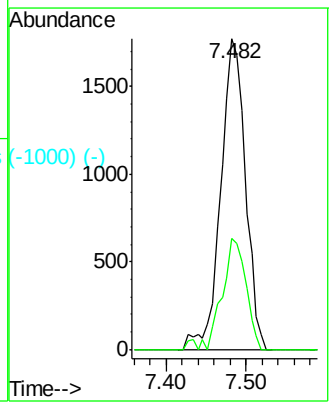




#45
1,2-Dichloropropane
Concen: 1.11 ug/l
RT: 7.482 min Scan# 1049
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 63 Resp: 3771

Ion	Ratio	Lower	Upper
63	100		
65	35.8	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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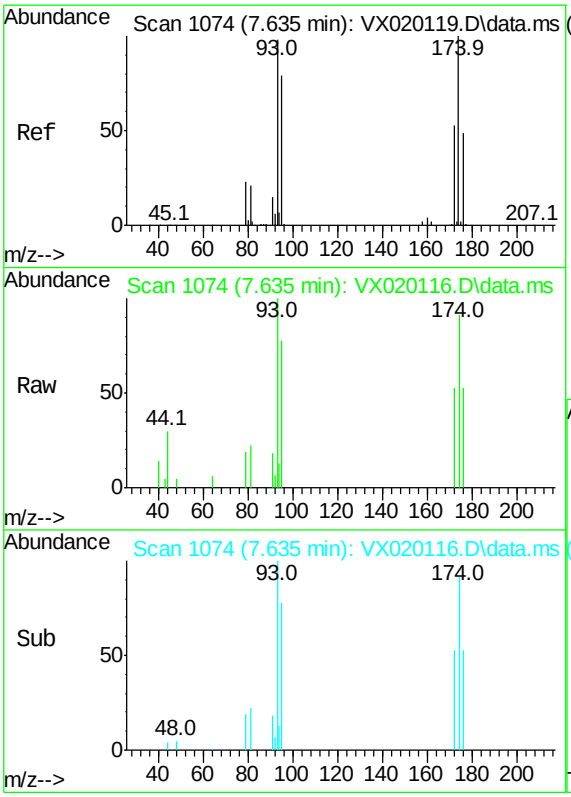
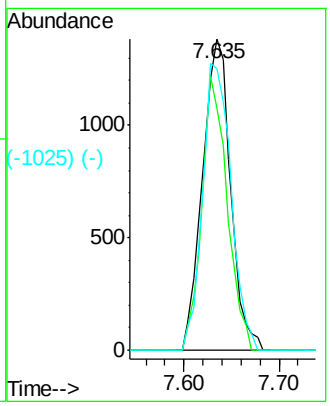
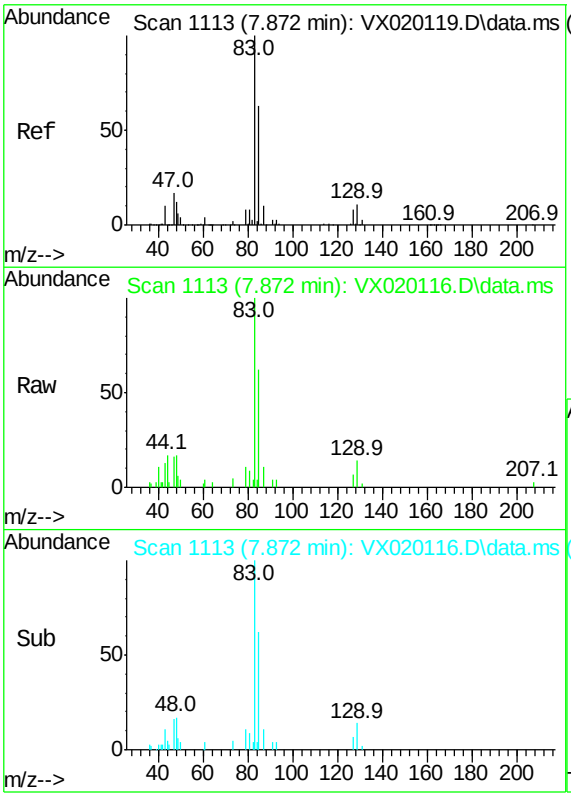


#46
Dibromomethane
Concen: 1.22 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 93 Resp: 2789

Ion	Ratio	Lower	Upper
93	100		
95	79.6	66.8	100.2
174	93.7	83.1	124.7

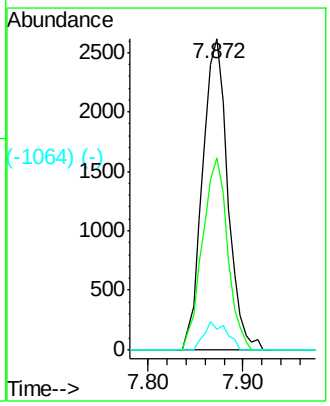




#47
Bromodichloromethane
Concen: 1.04 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 83 Resp: 4721

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.4	77.0
127	6.7	6.8	10.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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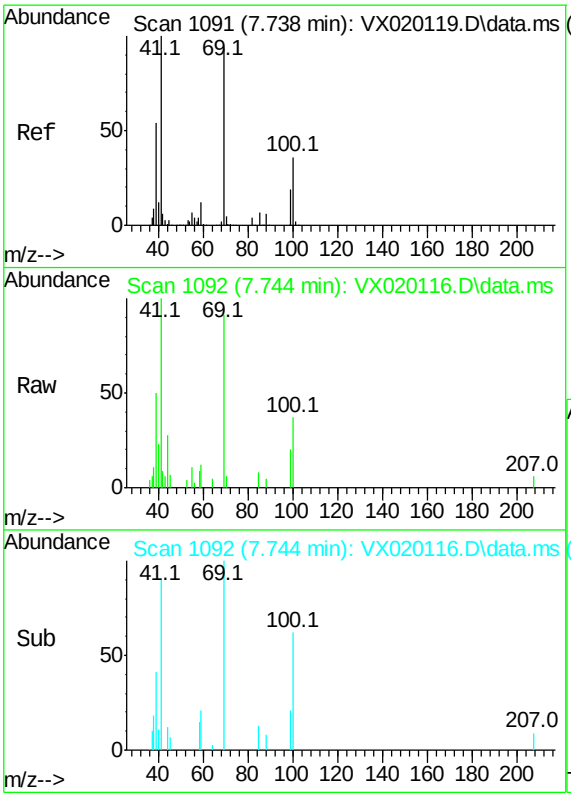
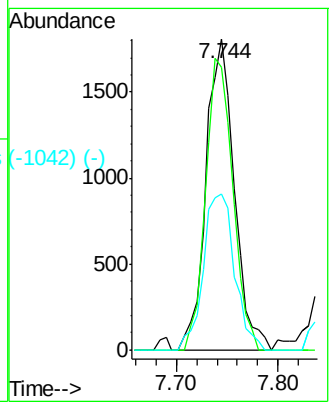
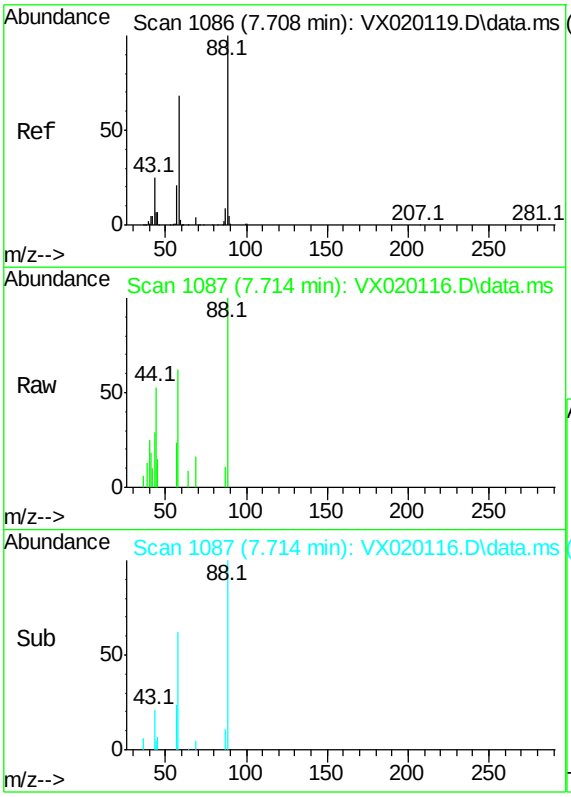


#48
Methyl methacrylate
Concen: 0.97 ug/l
RT: 7.744 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 41 Resp: 3485

Ion	Ratio	Lower	Upper
41	100		
69	90.3	76.0	114.0
39	55.6	44.6	67.0

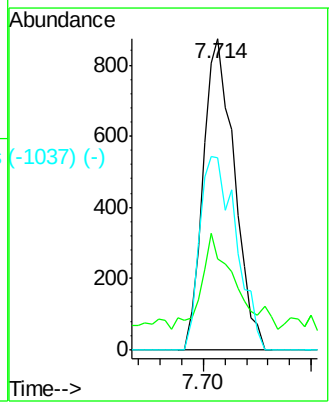




#49
1,4-Dioxane
Concen: 20.03 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 88 Resp: 1726

Ion	Ratio	Lower	Upper
88	100		
43	39.3	23.2	34.8#
58	73.1	55.0	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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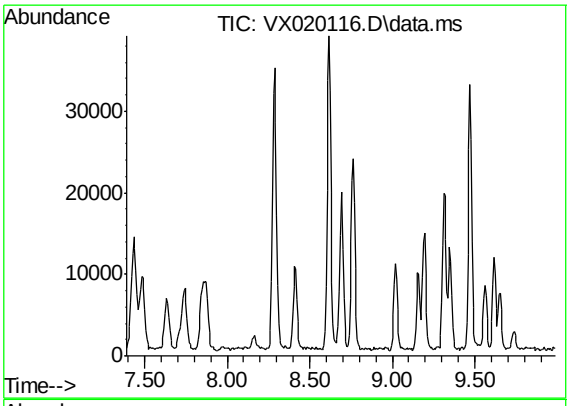
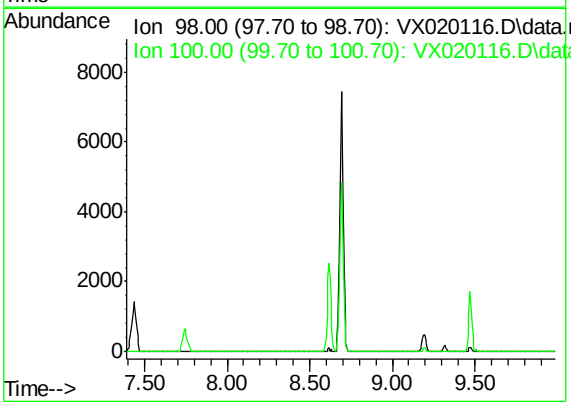


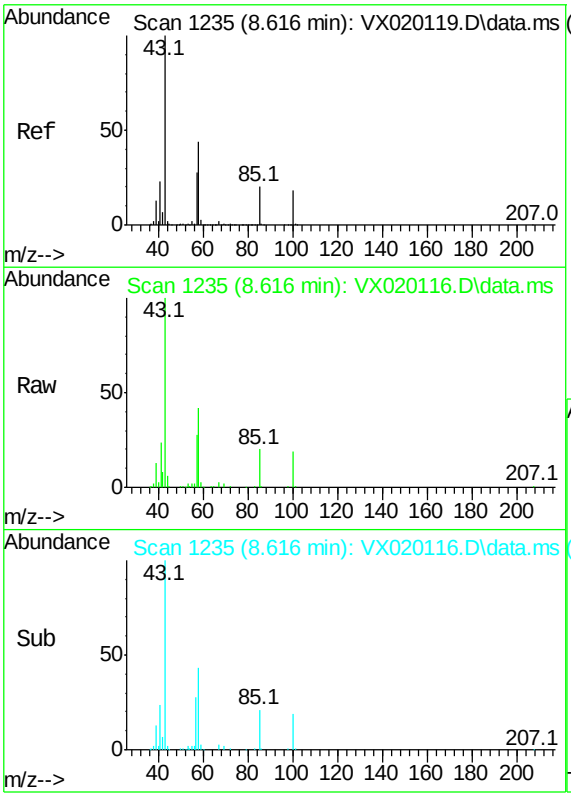
#50
Toluene-d8
Concen: 0.00 ug/l
Expected RT: 8.69 min

Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	64.9

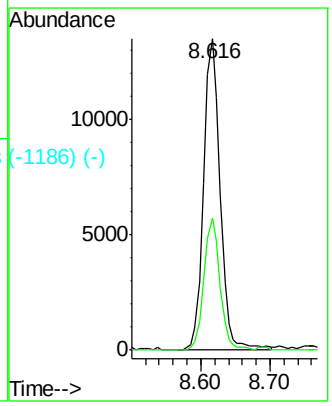




#51
4-Methyl-2-Pentanone
Concen: 4.94 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 22074

Ion	Ratio	Lower	Upper
43	100		
58	40.8	35.4	53.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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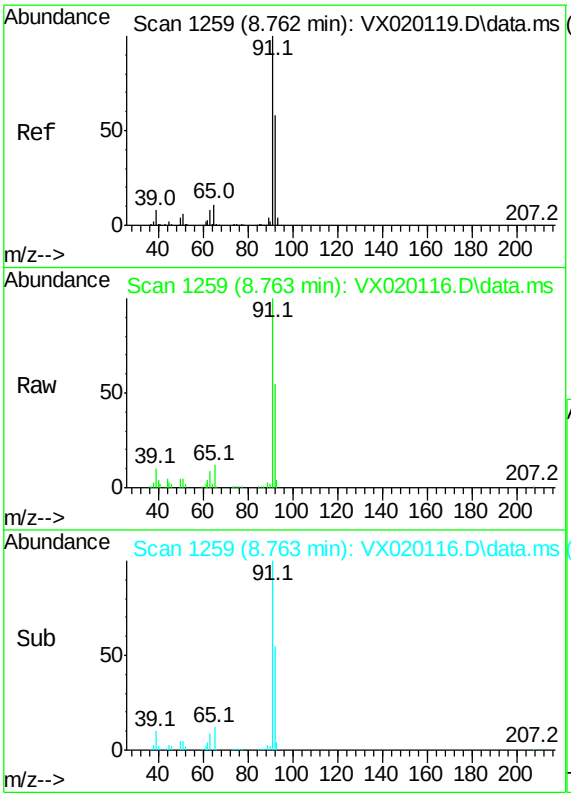
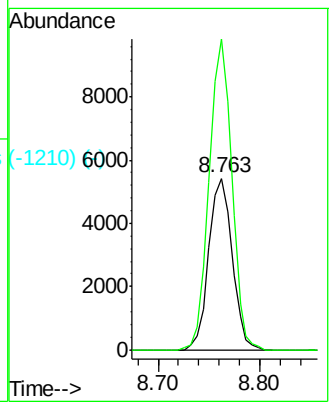
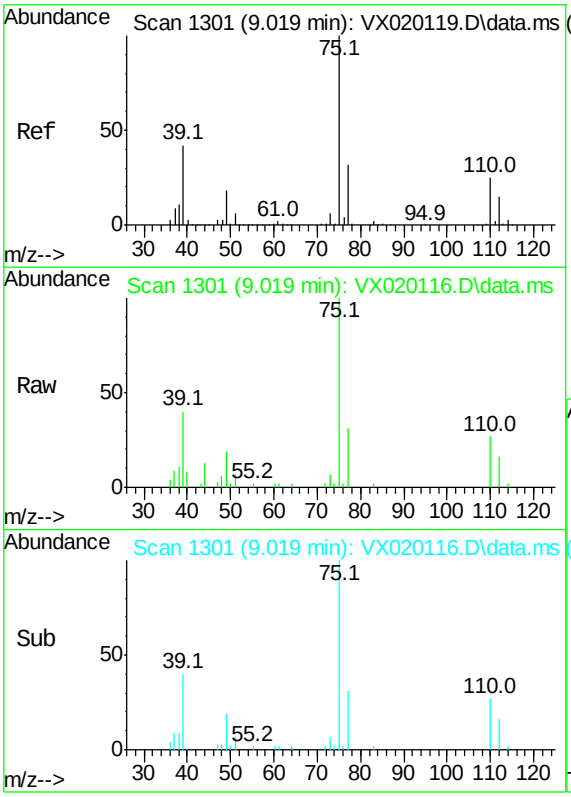


#52
Toluene
Concen: 1.03 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 92 Resp: 8636

Ion	Ratio	Lower	Upper
92	100		
91	175.4	137.1	205.7

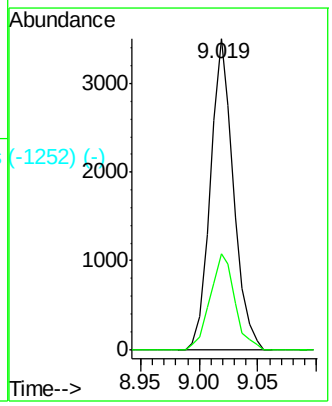




#53
t-1,3-Dichloropropene
Concen: 0.96 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 75 Resp: 4809

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.9	37.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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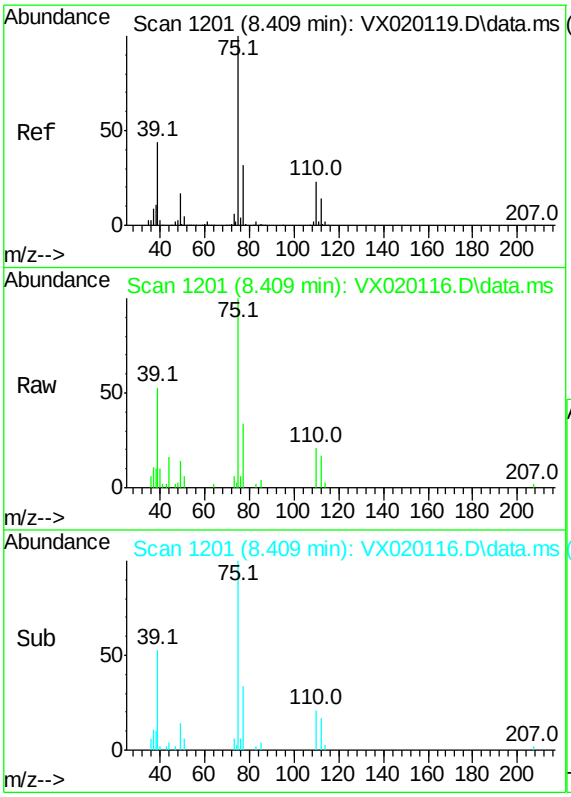
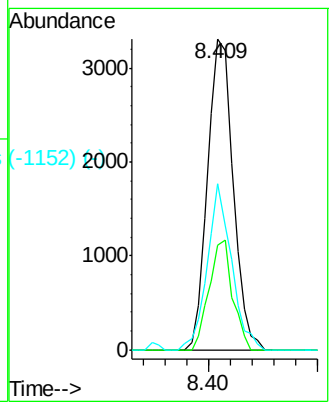
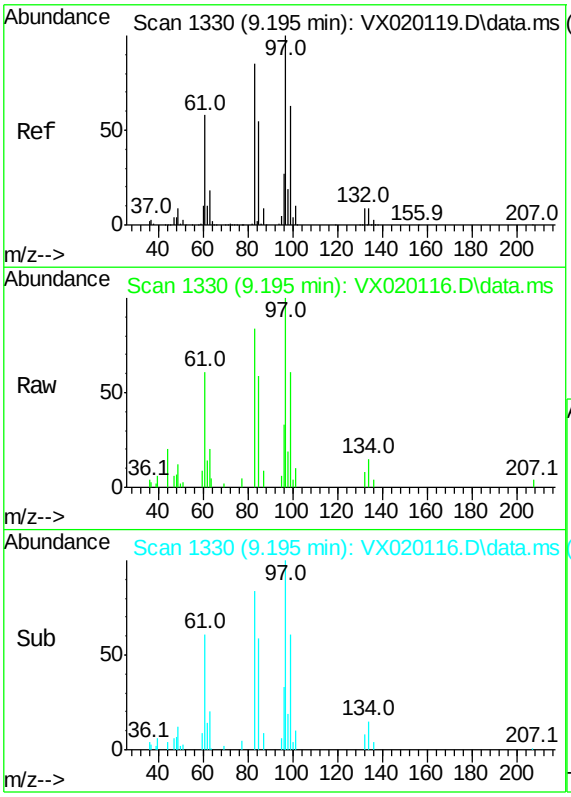


#54
cis-1,3-Dichloropropene
Concen: 0.98 ug/l
RT: 8.409 min Scan# 1201
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 75 Resp: 5380

Ion	Ratio	Lower	Upper
75	100		
77	33.6	25.7	38.5
39	53.4	35.1	52.7#

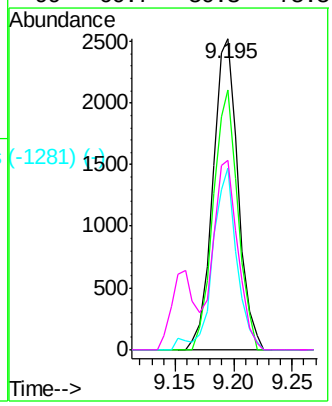




#55
1,1,2-Trichloroethane
Concen: 1.10 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 97 Resp: 3774

Ion	Ratio	Lower	Upper
97	100		
83	83.6	69.3	103.9
85	58.6	44.3	66.5
99	60.7	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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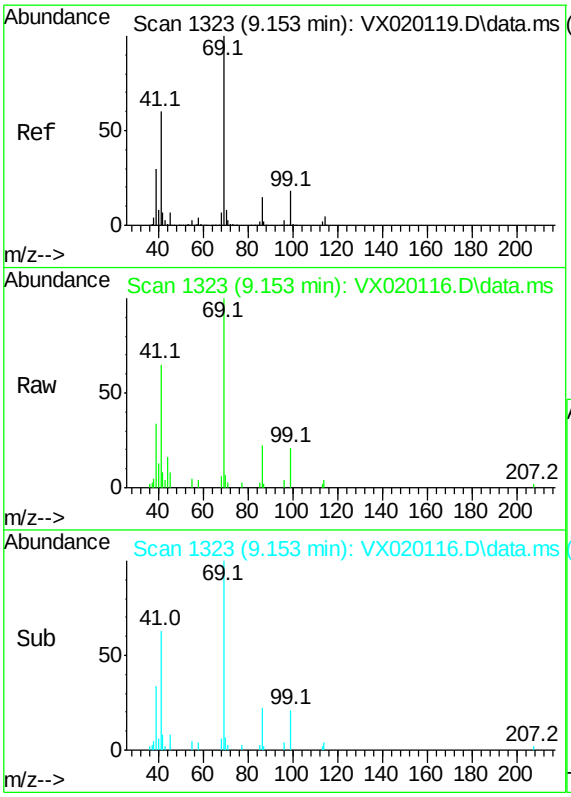
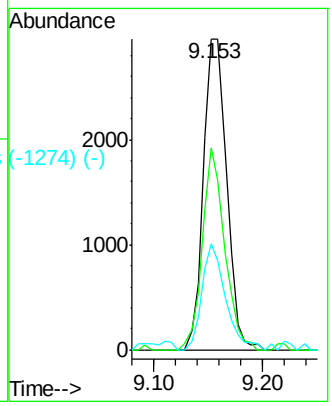
12/21/2020 3:57:52 PM

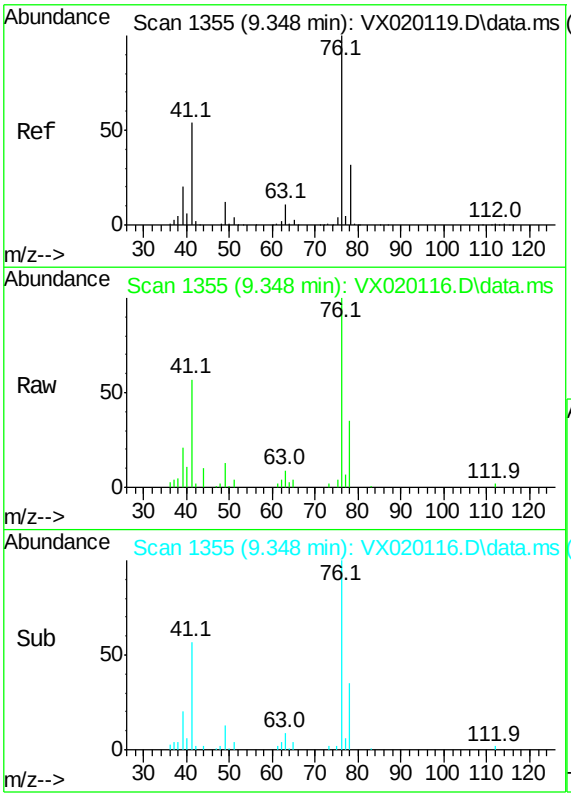


#56
Ethyl methacrylate
Concen: 0.85 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 69 Resp: 4374

Ion	Ratio	Lower	Upper
69	100		
41	62.2	46.8	70.2
39	34.4	24.7	37.1

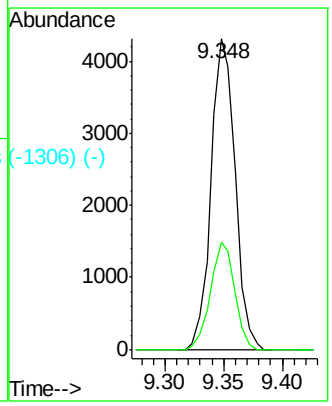




#57
1,3-Dichloropropane
Concen: 1.06 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 76 Resp: 6196

Ion	Ratio	Lower	Upper
76	100		
78	34.7	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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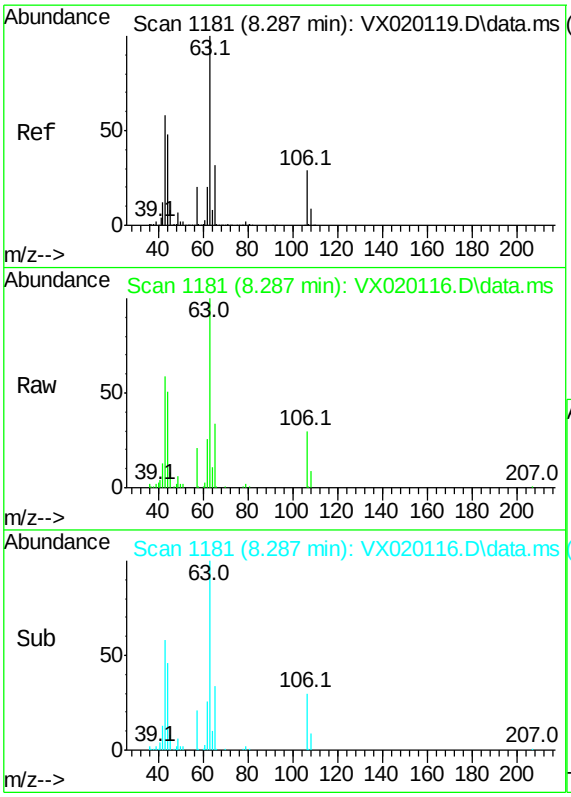
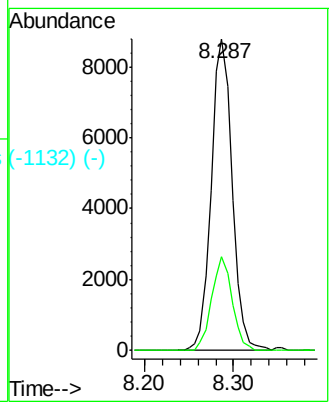
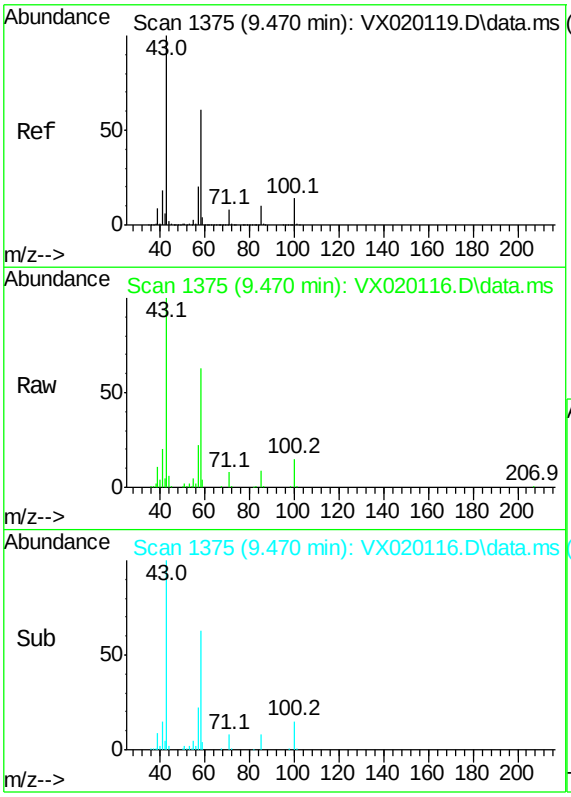


#58
2-Chloroethyl Vinyl ether
Concen: 5.22 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 63 Resp: 14261

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.5	35.3

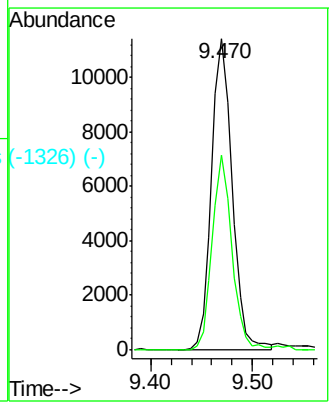




#58
2-Hexanone
Concen: 4.63 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 15971

Ion	Ratio	Lower	Upper
43	100		
58	59.6	30.9	92.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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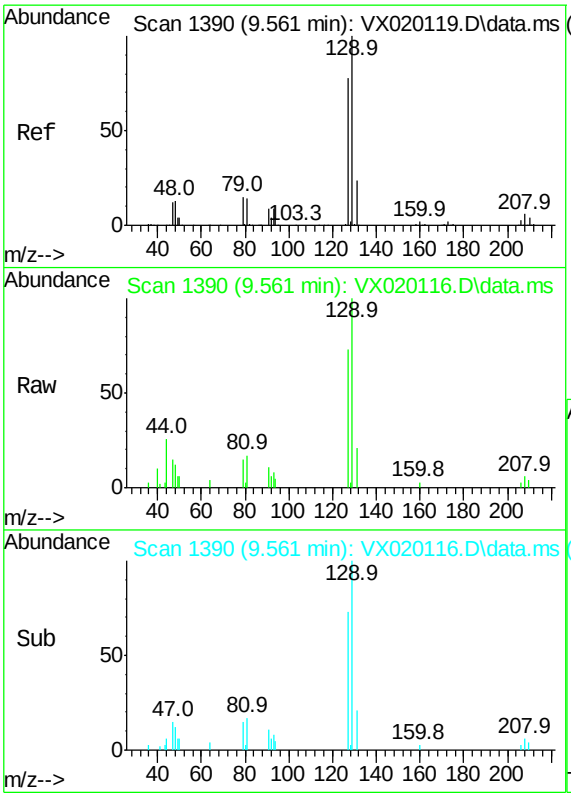
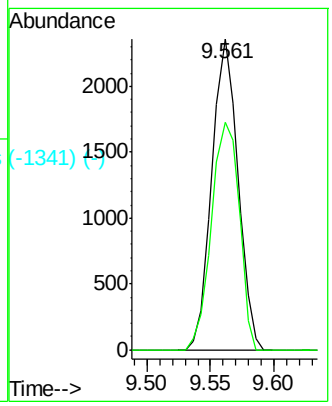
12/21/2020 3:57:52 PM

#60
Dibromochloromethane
Concen: 0.95 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:129 Resp: 3283

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.4	115.2

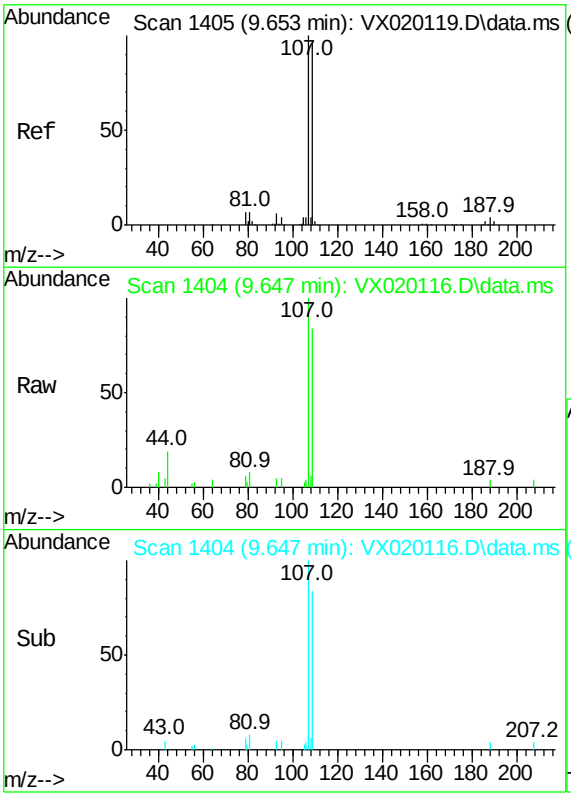


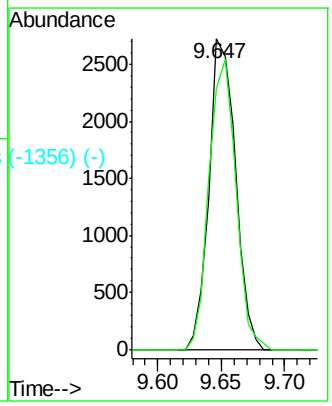


#61
1,2-Dibromoethane
Concen: 1.06 ug/l
RT: 9.647 min Scan# 1404
Delta R.T. -0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:107 Resp: 3834

Ion	Ratio	Lower	Upper
107	100		
109	94.8	75.8	113.6





Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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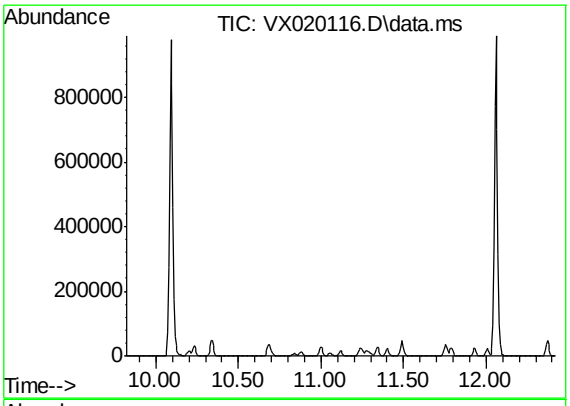
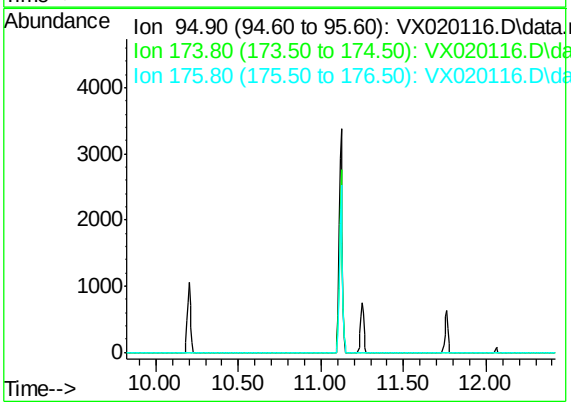


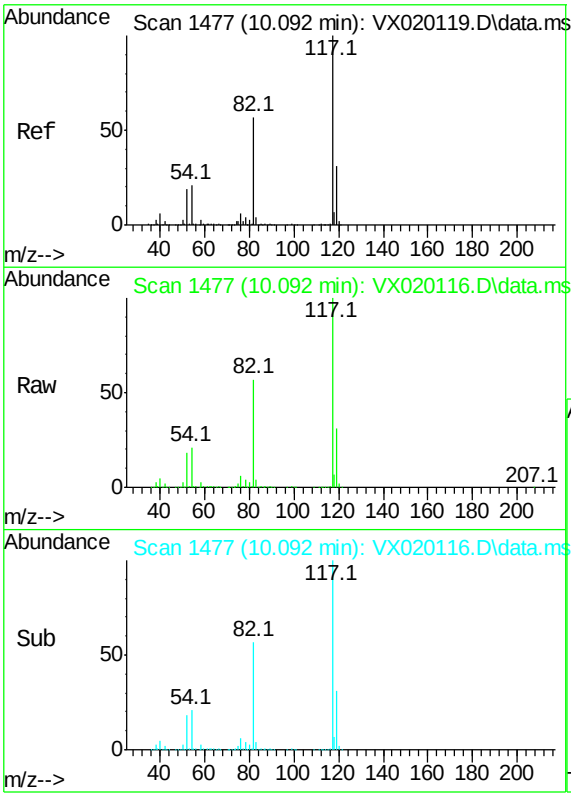
#62
4-Bromofluorobenzene
Concen: 0.00 ug/l
Expected RT: 11.12 min

Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	77.3
176	77.9

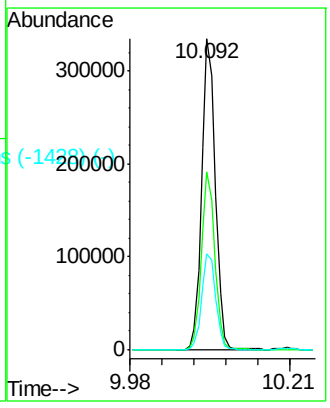




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:117 Resp: 439653

Ion	Ratio	Lower	Upper
117	100		
82	57.0	47.4	71.2
119	30.8	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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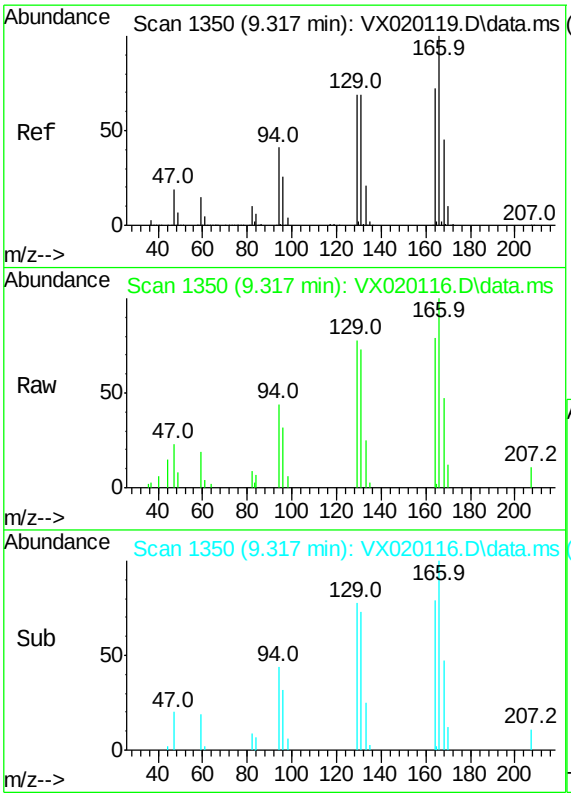
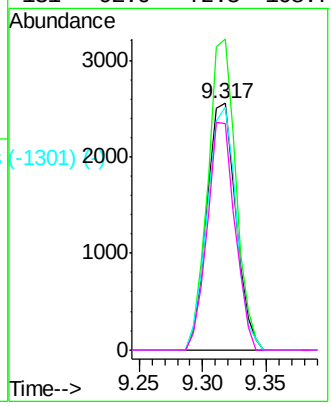
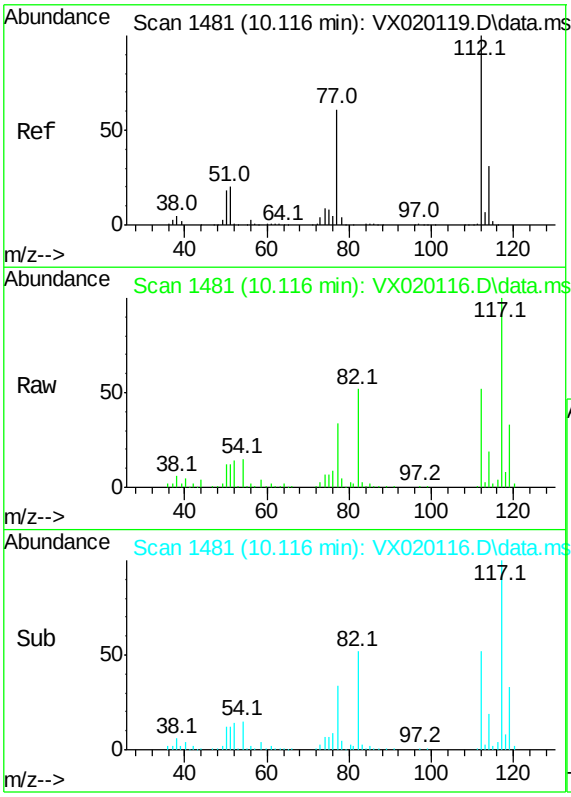


#64
Tetrachloroethene
Concen: 1.33 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:164 Resp: 3920

Ion	Ratio	Lower	Upper
164	100		
166	126.2	103.4	155.2
129	98.8	70.8	106.2
131	92.0	72.5	108.7

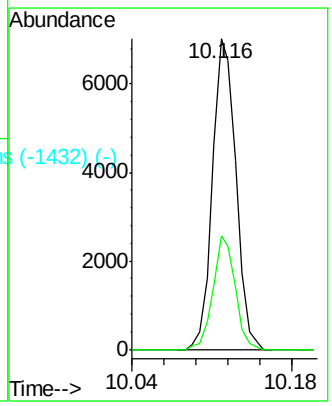




#65
Chlorobenzene
Concen: 1.12 ug/l
RT: 10.116 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:112 Resp: 9845

Ion	Ratio	Lower	Upper
112	100		
114	36.4	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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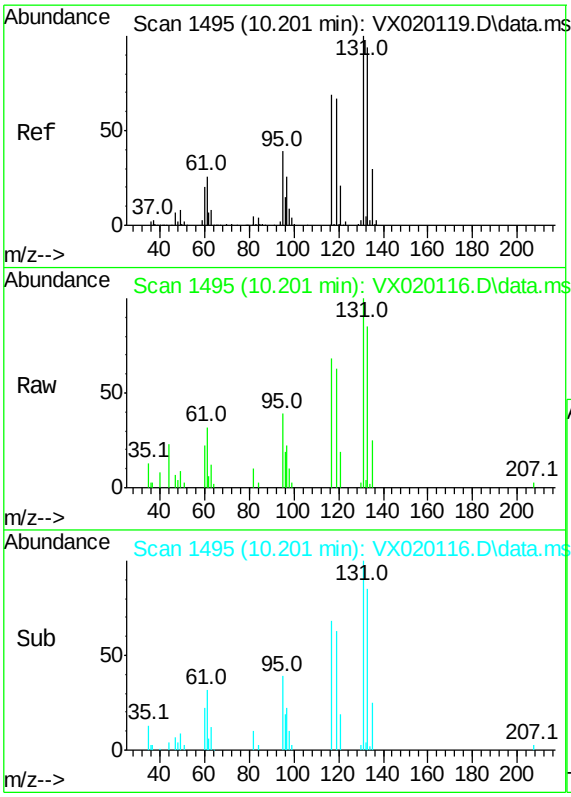
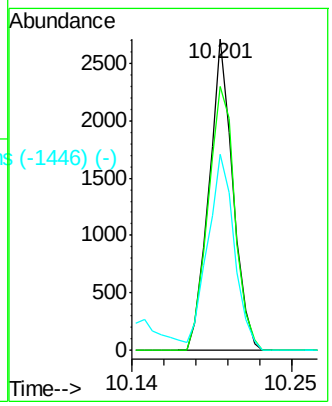
12/21/2020 3:57:52 PM

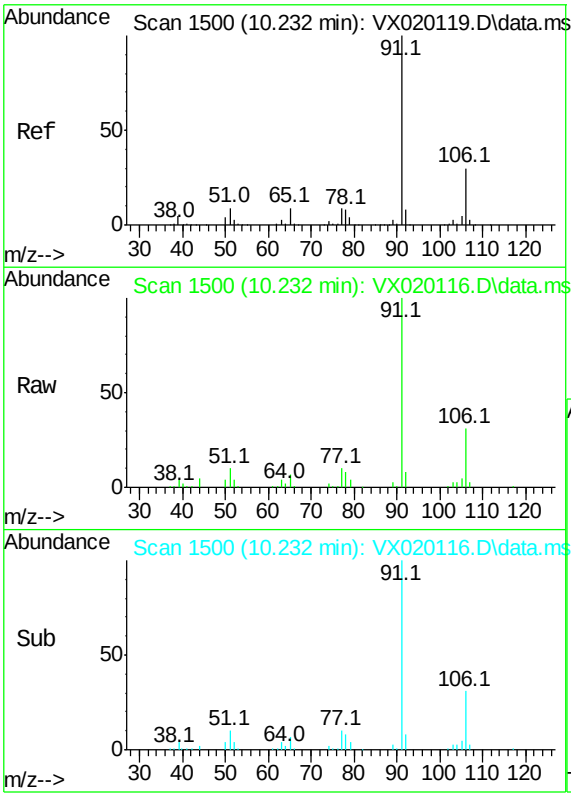


#66
1,1,1,2-Tetrachloroethane
Concen: 1.02 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:131 Resp: 3242

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.7	143.1
119	0.0	32.1	96.5#

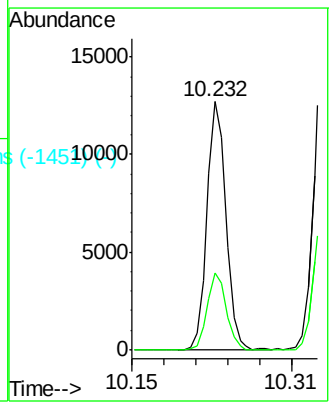




#67
Ethyl Benzene
Concen: 1.05 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 91 Resp: 16397

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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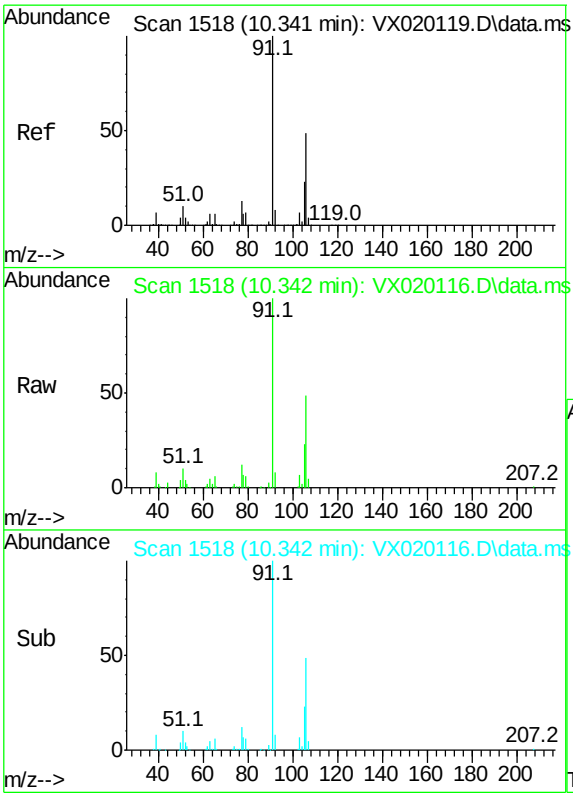
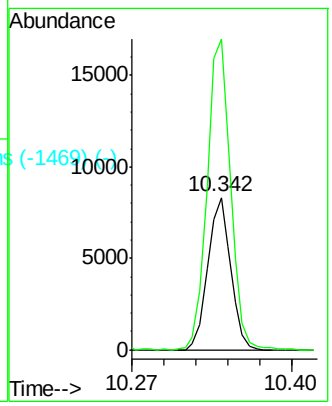
12/21/2020 3:57:52 PM

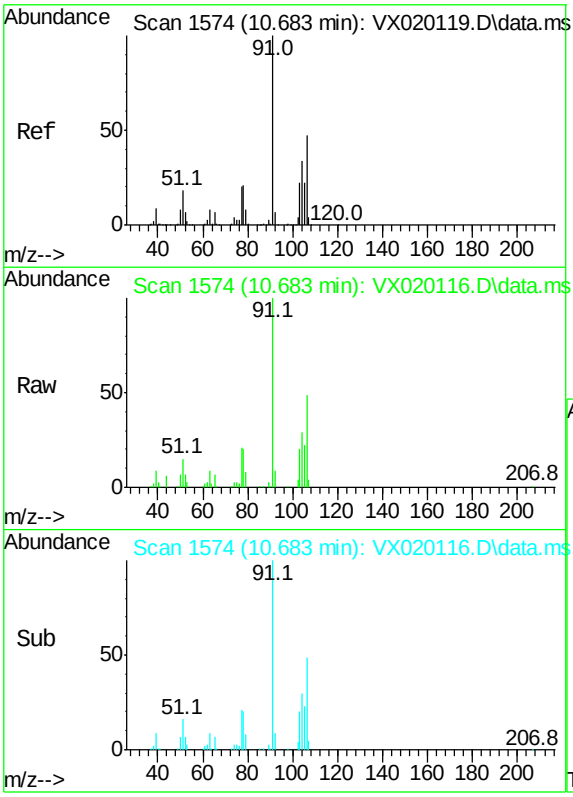


m/p-Xylenes
Concen: 1.93 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:106 Resp: 11347

Ion	Ratio	Lower	Upper
106	100		
91	209.9	162.8	244.2

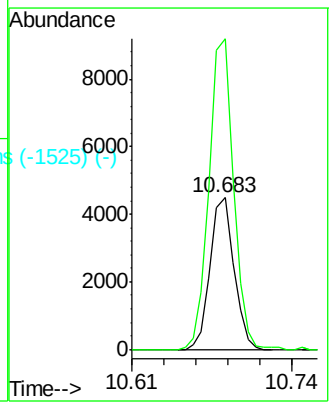




o-Xylene
Concen: 1.00 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:106 Resp: 5677

Ion	Ratio	Lower	Upper
106	100		
91	210.6	108.1	324.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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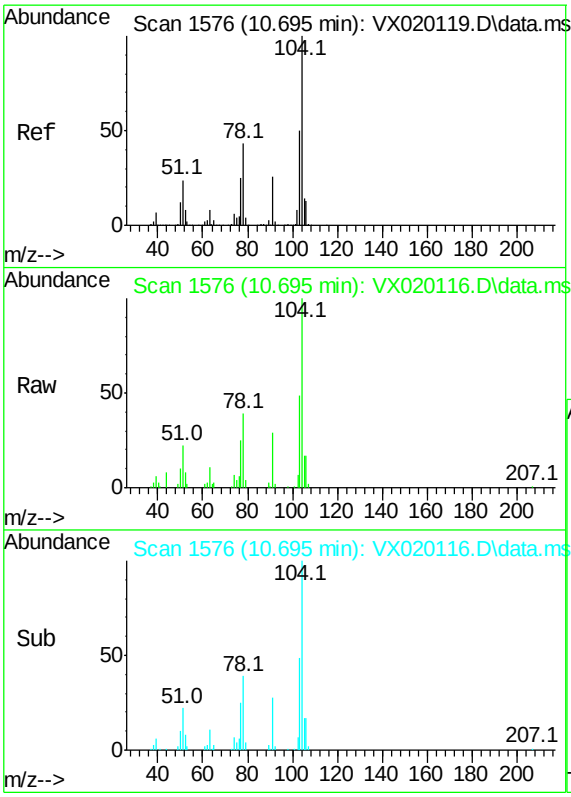
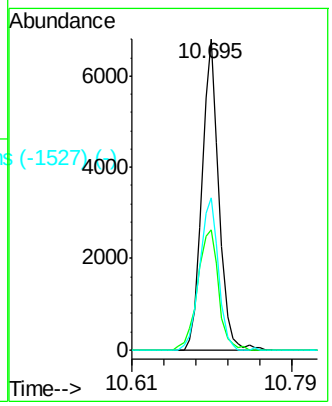
12/21/2020 3:57:52 PM

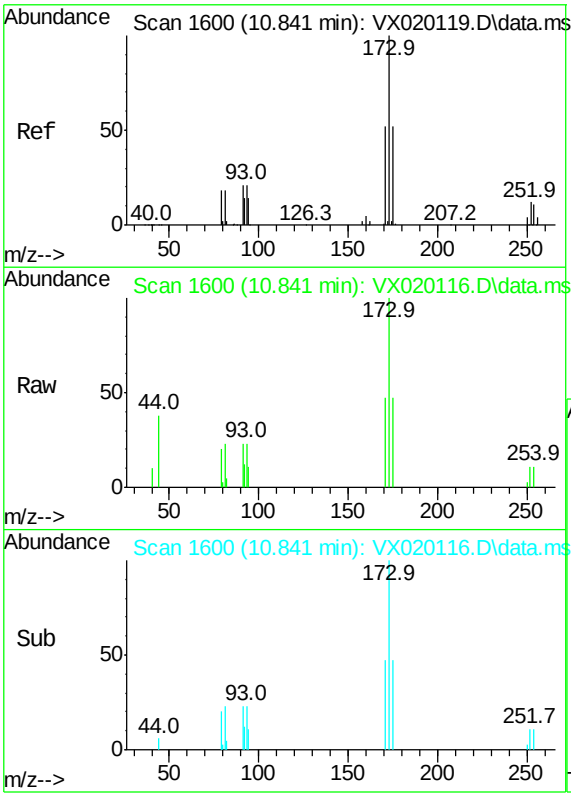


#70
Styrene
Concen: 0.93 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:104 Resp: 8870

Ion	Ratio	Lower	Upper
104	100		
78	47.9	40.0	60.0
103	54.2	43.4	65.0

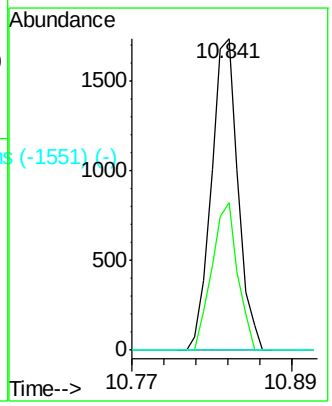




#71
Bromoform
Concen: 0.94 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:173 Resp: 2323

Ion	Ratio	Lower	Upper
173	100		
175	45.5	23.9	71.8
254	0.0	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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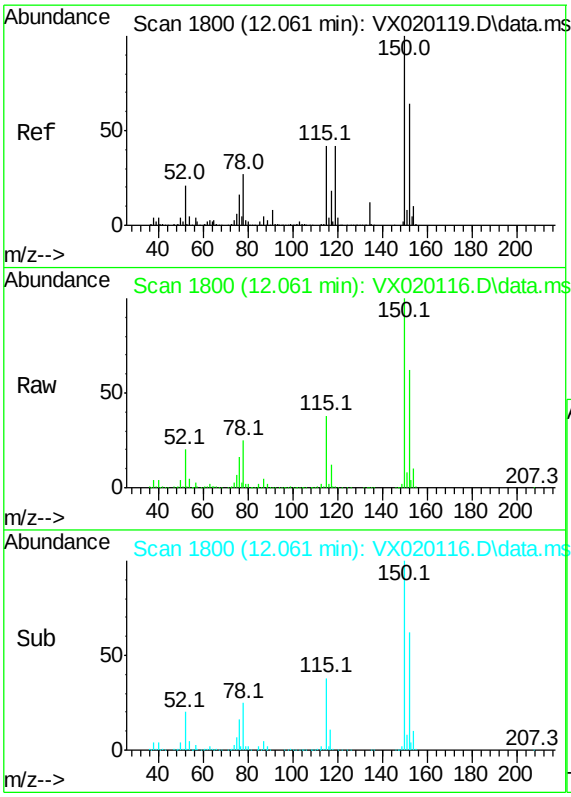
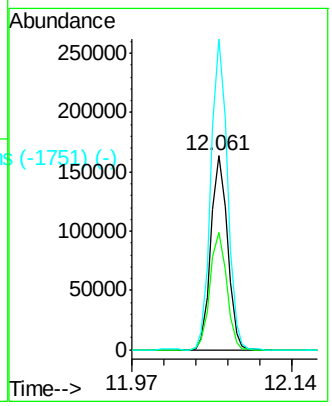
12/21/2020 3:57:52 PM

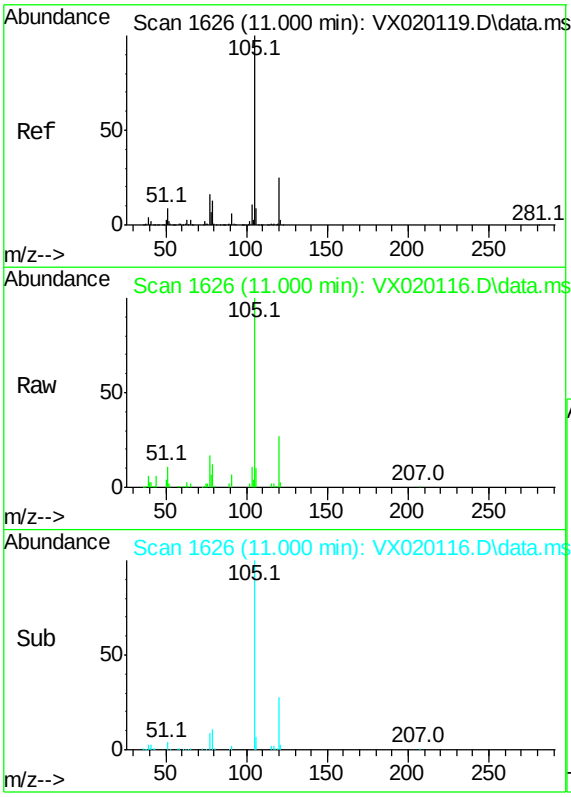


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:152 Resp: 194365

Ion	Ratio	Lower	Upper
152	100		
115	61.1	41.1	123.3
150	159.3	0.0	349.0

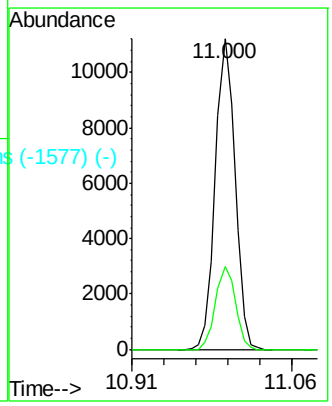




#78
Isopropylbenzene
Concen: 1.06 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:105 Resp: 14078

Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.2	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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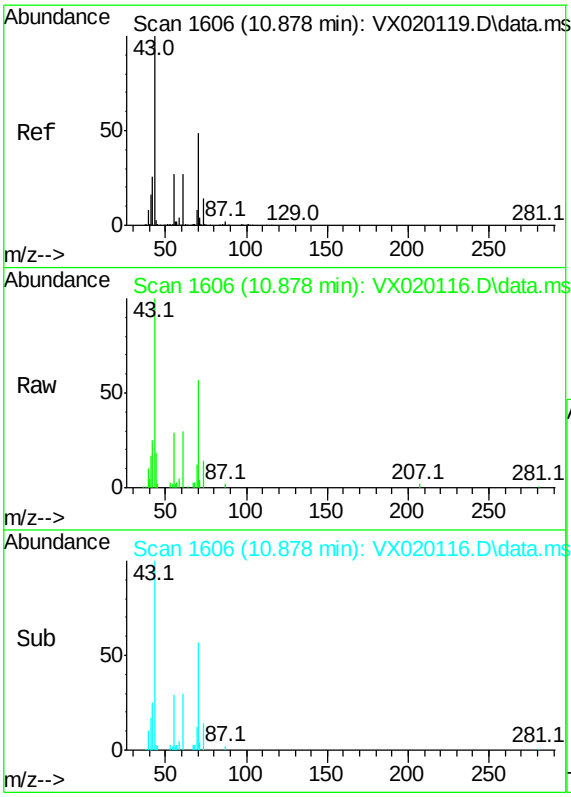
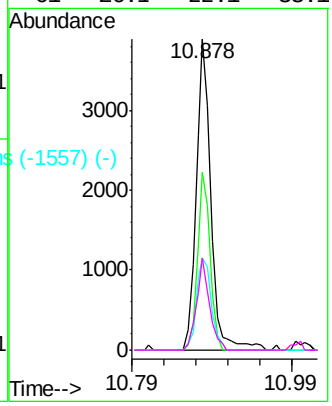
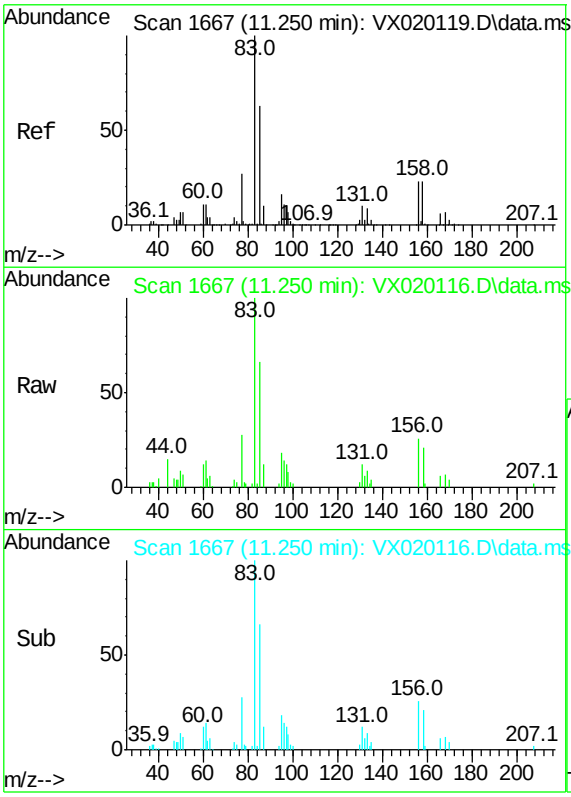


#74
N-amyl acetate
Concen: 0.92 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 43 Resp: 4969

Ion	Ratio	Lower	Upper
43	100		
70	48.6	39.0	58.6
55	30.1	21.5	32.3
61	26.1	22.1	33.1

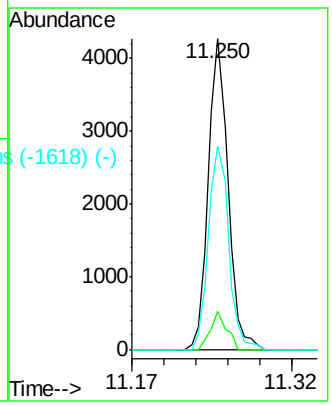




#75
1,1,2,2-Tetrachloroethane
Concen: 1.12 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 83 Resp: 5310

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.2
85	67.6	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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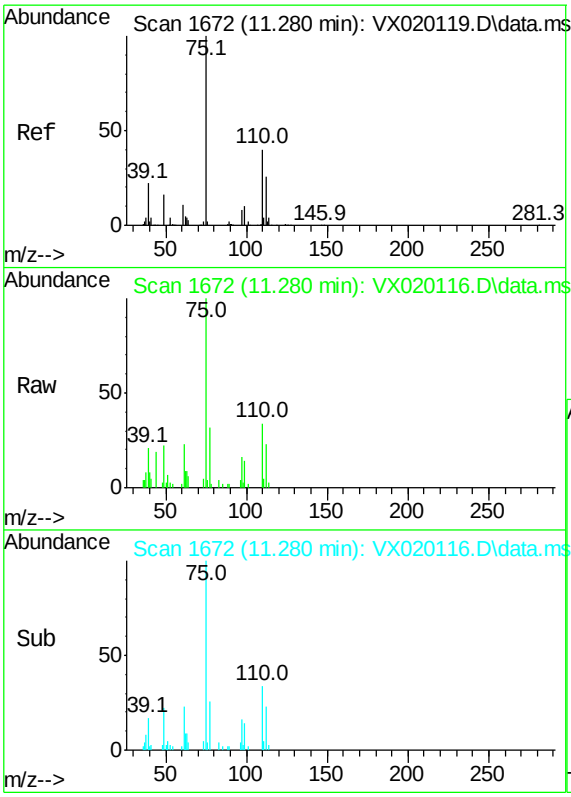
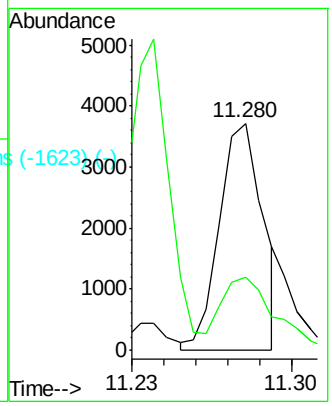
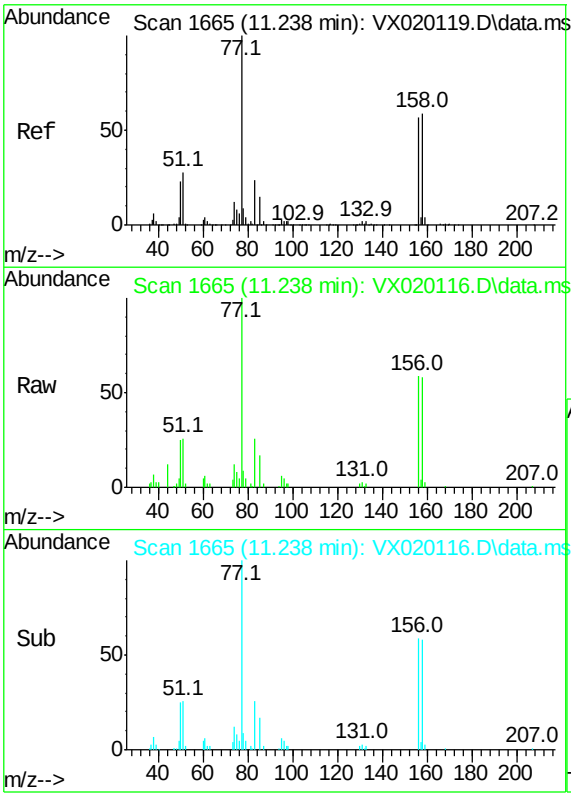


#76
1,2,3-Trichloropropane
Concen: 1.18 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 75 Resp: 5207

Ion	Ratio	Lower	Upper
75	100		
77	39.2	19.1	57.5

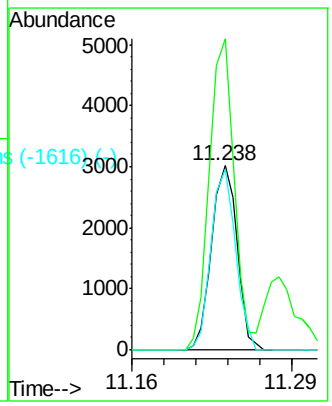




#77
Bromobenzene
Concen: 1.19 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:156 Resp: 4078

Ion	Ratio	Lower	Upper
156	100		
77	165.8	82.8	248.6
158	94.5	49.1	147.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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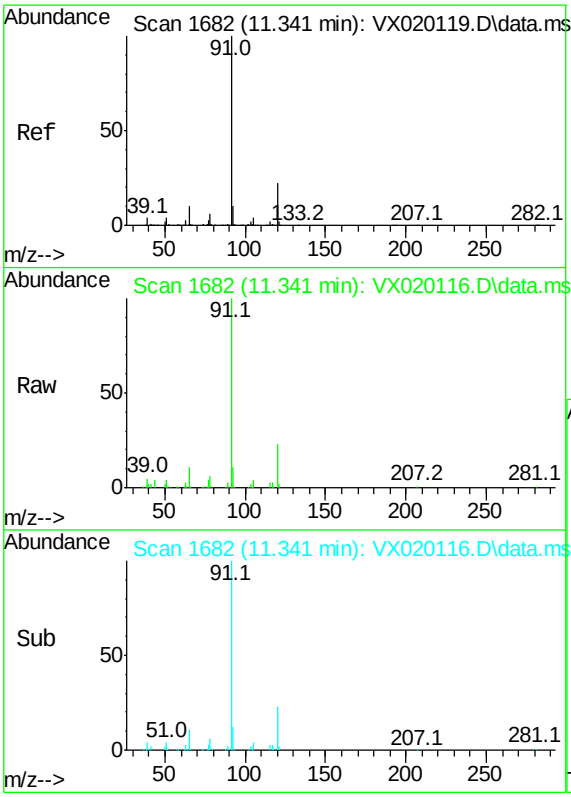
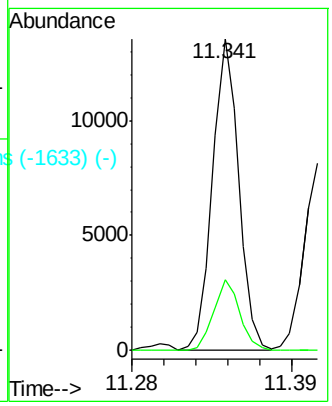
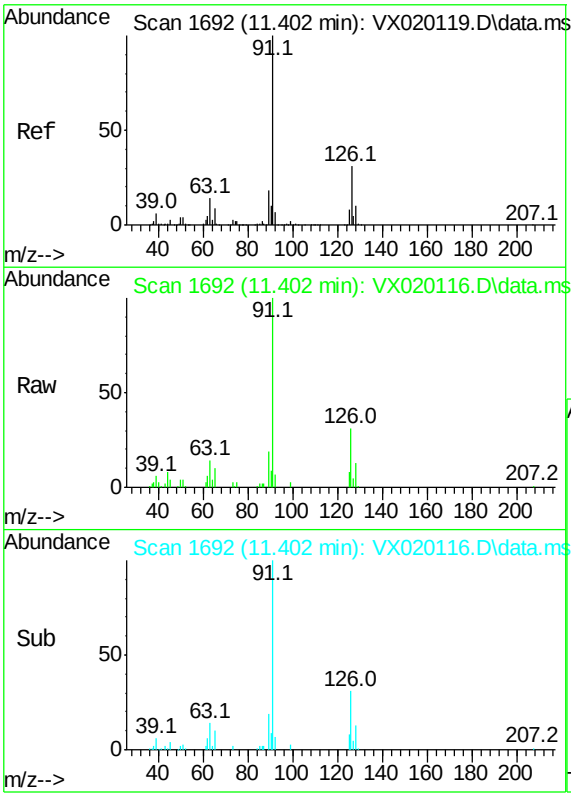


#78
n-propylbenzene
Concen: 1.06 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 91 Resp: 16148

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.5	34.5

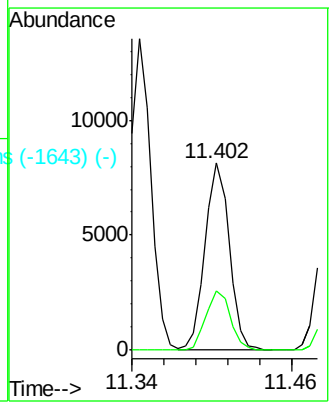




#79
2-Chlorotoluene
Concen: 1.11 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 91 Resp: 10443

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.6	49.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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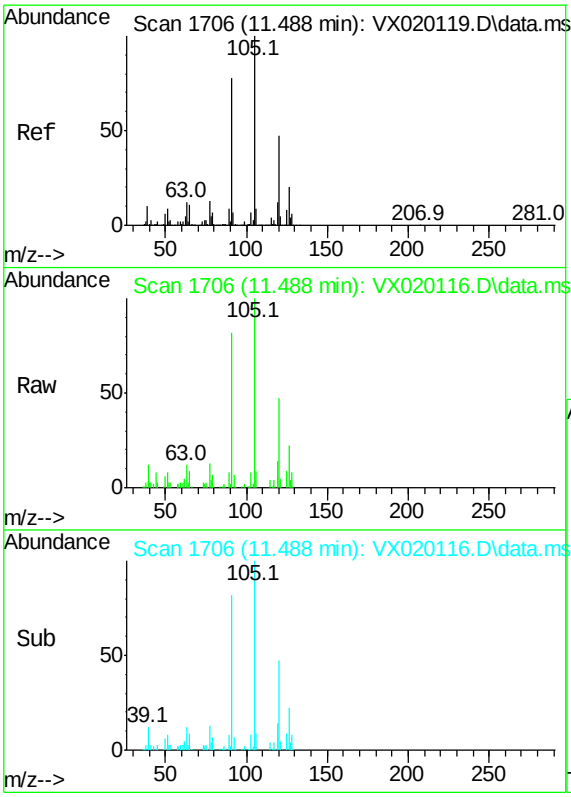
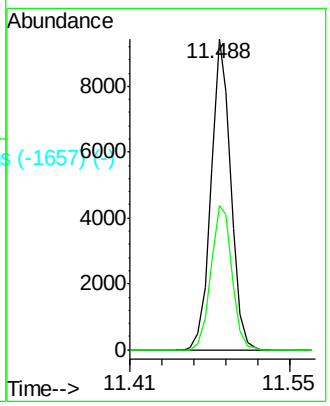
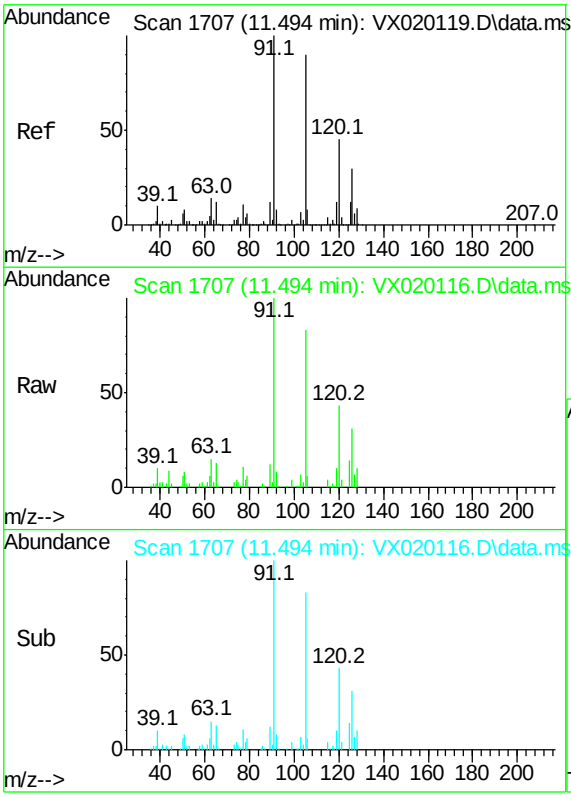


#80
1,3,5-Trimethylbenzene
Concen: 0.99 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:105 Resp: 11071

Ion	Ratio	Lower	Upper
105	100		
120	49.5	23.8	71.5

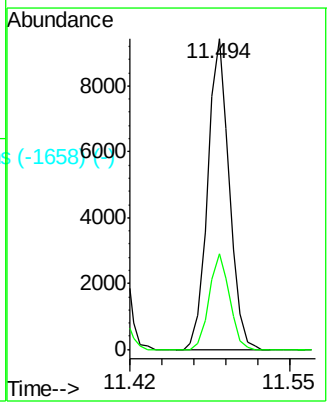




#82
4-Chlorotoluene
Concen: 1.09 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 91 Resp: 12091

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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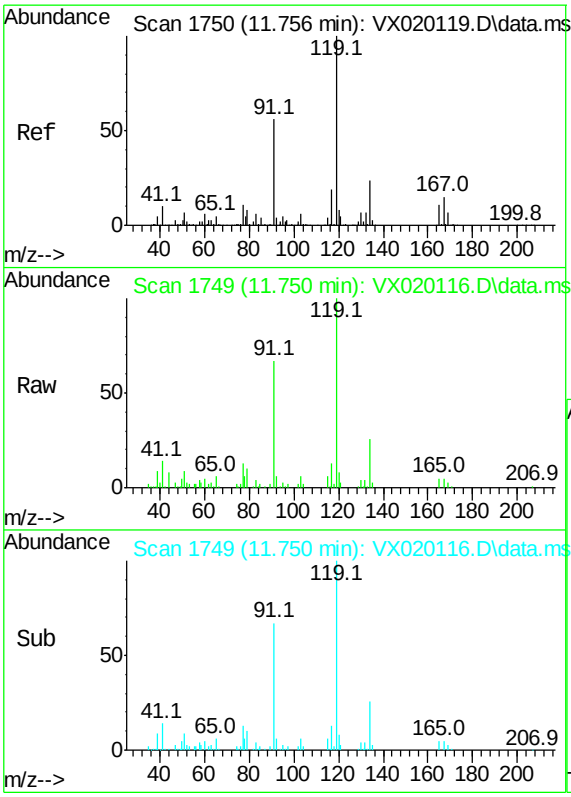
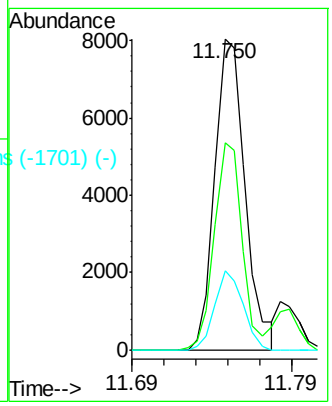
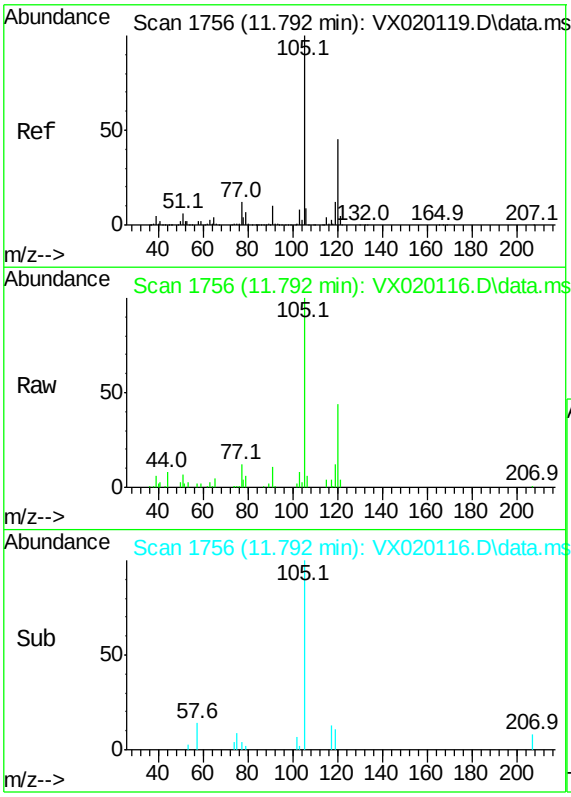


#83
tert-Butylbenzene
Concen: 1.02 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:119 Resp: 11121

Ion	Ratio	Lower	Upper
119	100		
91	61.2	27.9	83.7
134	23.8	11.3	33.9

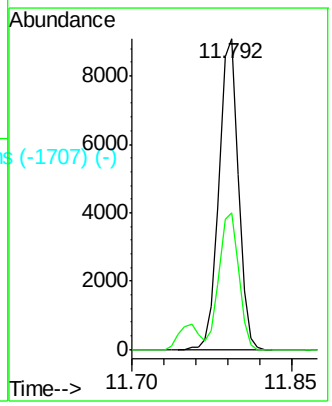




#84
1,2,4-Trimethylbenzene
Concen: 0.99 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:105 Resp: 11225

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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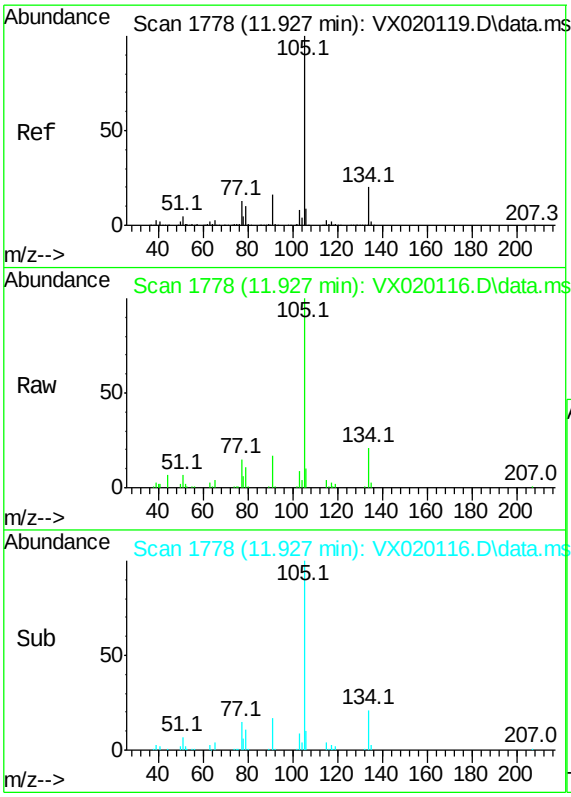
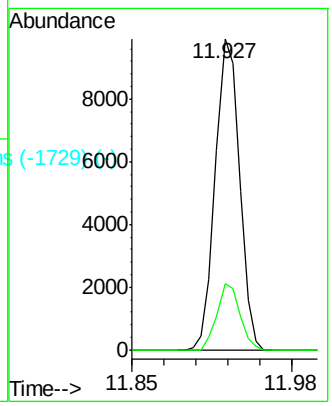
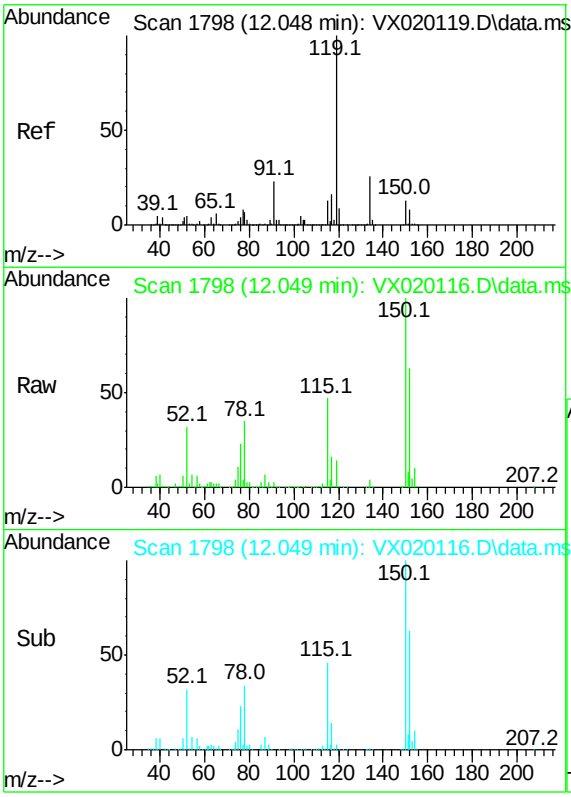


#85
sec-Butylbenzene
Concen: 1.03 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:105 Resp: 12833

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	29.8

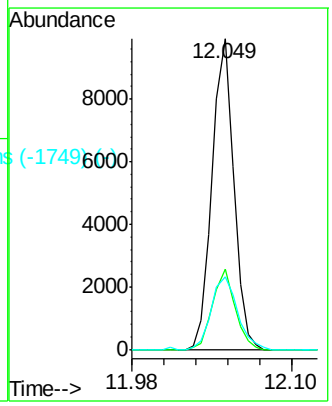




#86
p-Isopropyltoluene
Concen: 1.00 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:119 Resp: 11418

Ion	Ratio	Lower	Upper
119	100		
134	26.7	12.9	38.7
91	28.4	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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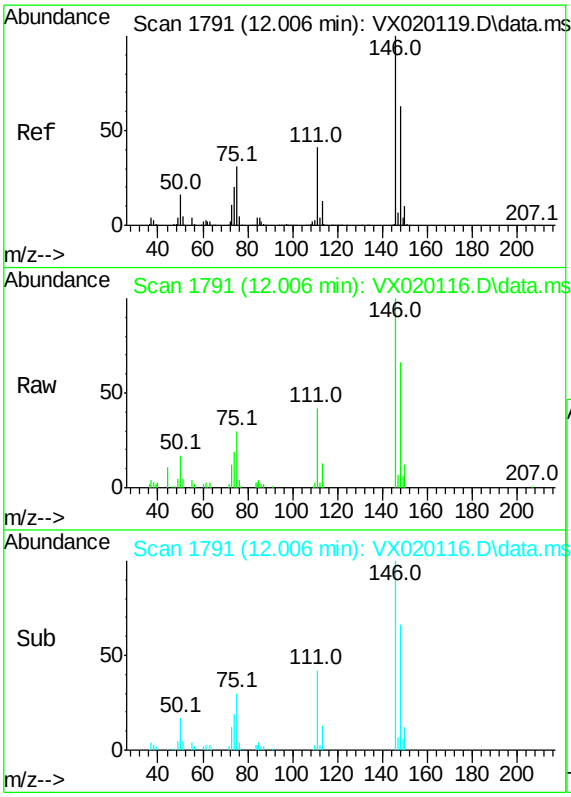
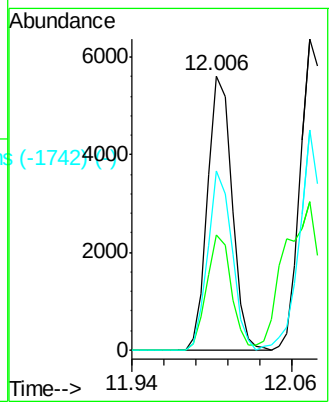
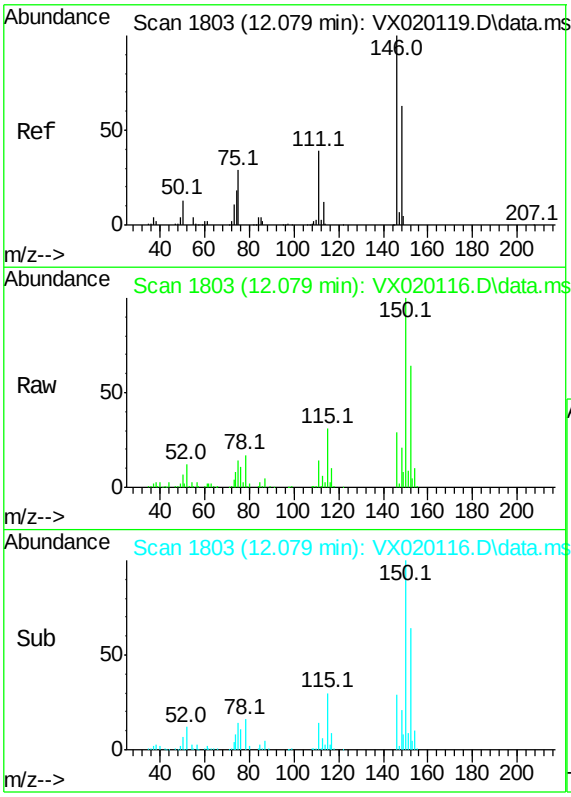


#87
1,3-Dichlorobenzene
Concen: 1.16 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:146 Resp: 7285

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	64.1	31.9	95.7

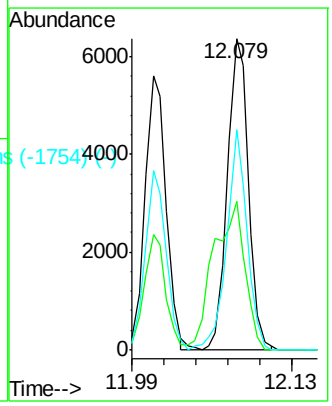




#88
1,4-Dichlorobenzene
Concen: 1.26 ug/l m
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:146 Resp: 8039

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.6	58.8
148	58.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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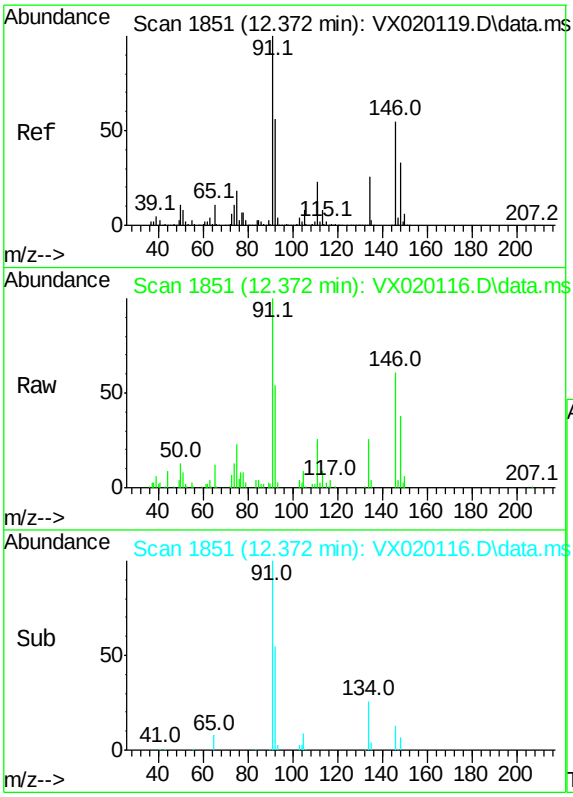
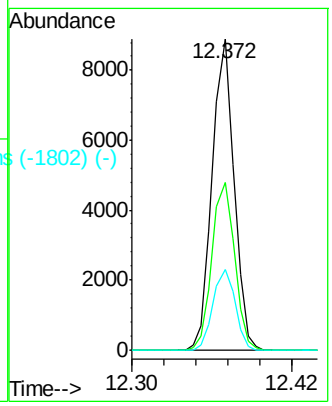
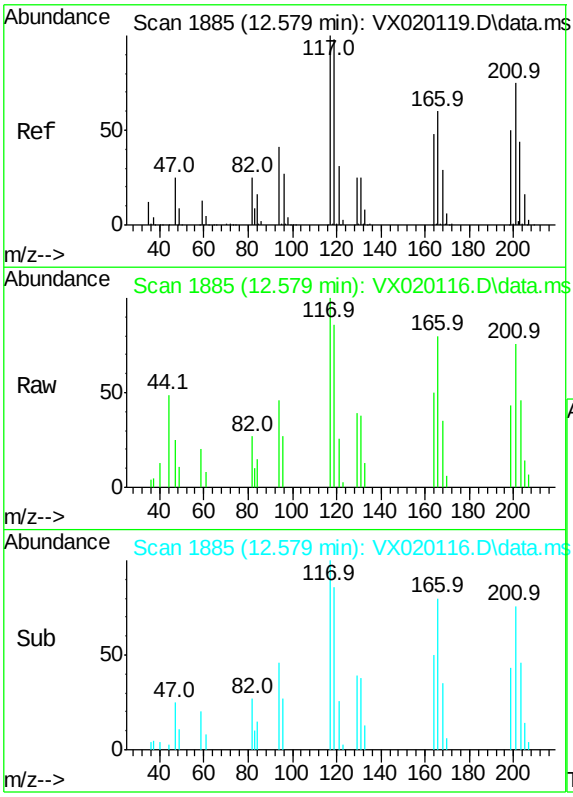


#89
n-Butylbenzene
Concen: 1.02 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion: 91 Resp: 10293

Ion	Ratio	Lower	Upper
91	100		
92	55.6	27.4	82.0
134	26.2	13.2	39.5

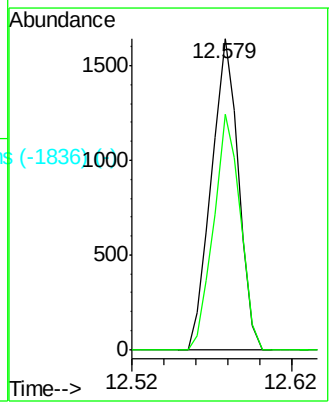




#90
Hexachloroethane
Concen: 1.03 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:117 Resp: 2027

Ion	Ratio	Lower	Upper
117	100		
201	74.4	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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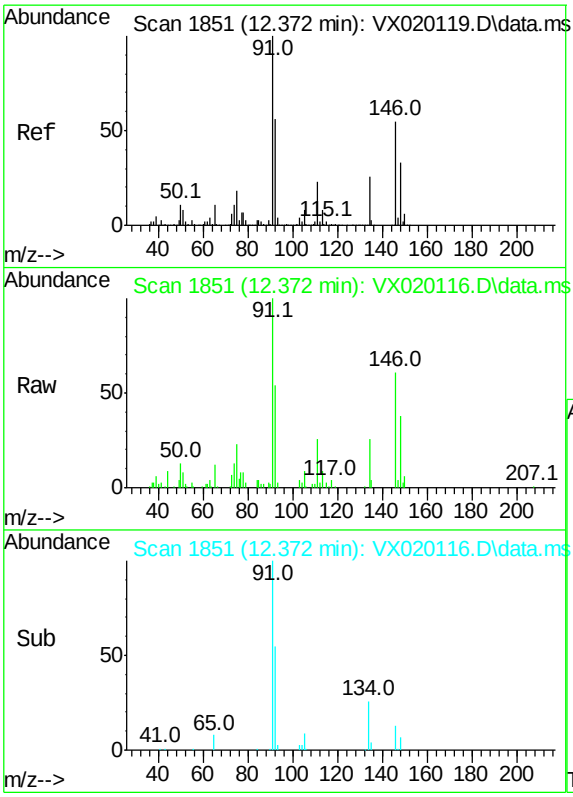
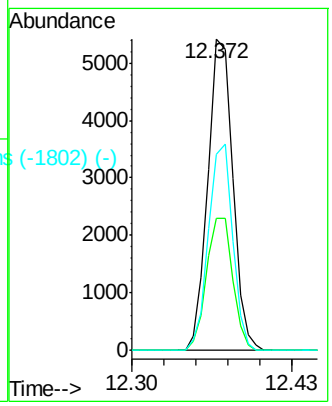
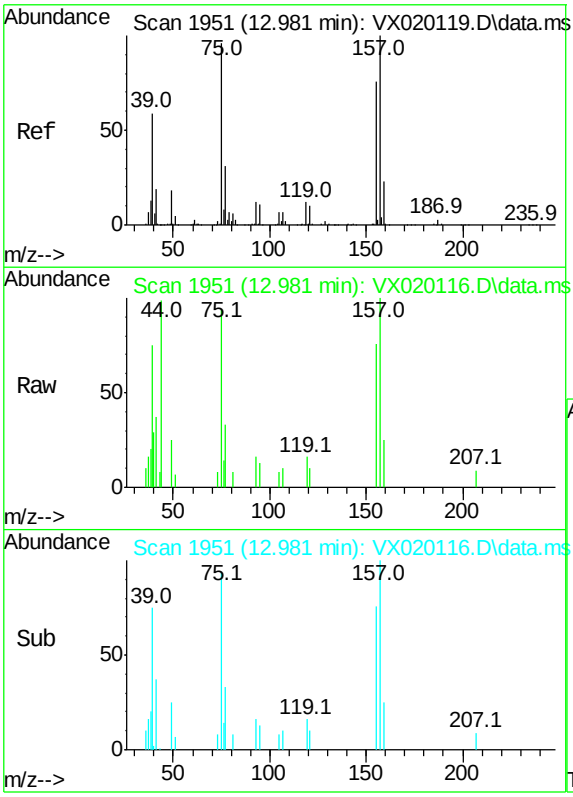


#91
1,2-Dichlorobenzene
Concen: 1.17 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:146 Resp: 7174

Ion	Ratio	Lower	Upper
146	100		
111	44.2	20.8	62.2
148	63.8	31.9	95.5

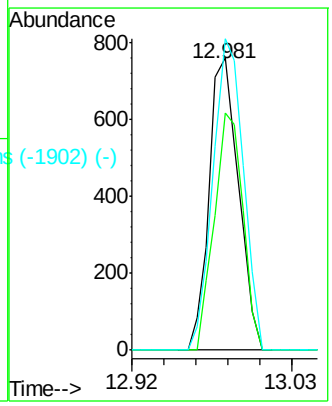




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.99 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

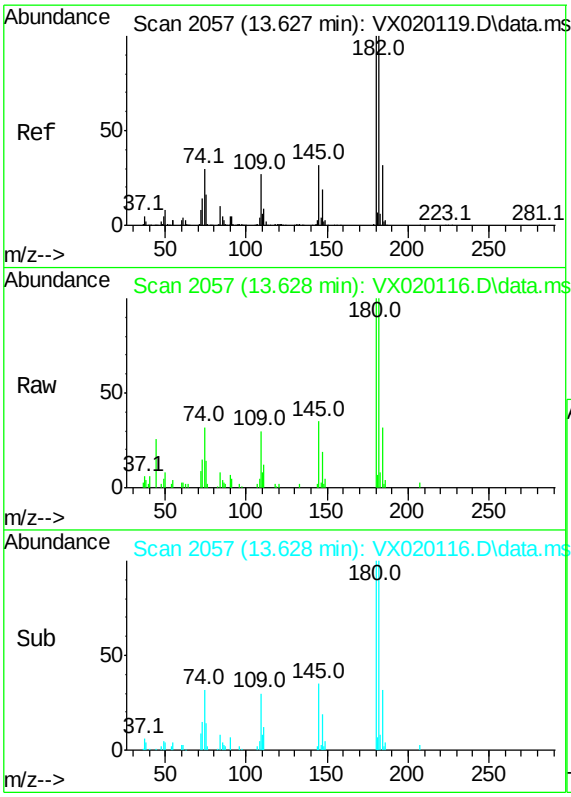
Tgt Ion: 75 Resp: 1014

Ion	Ratio	Lower	Upper
75	100		
155	79.2	45.3	135.9
157	110.7	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

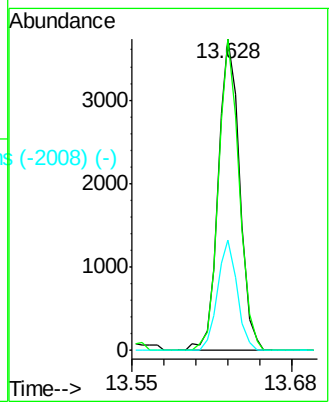
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM

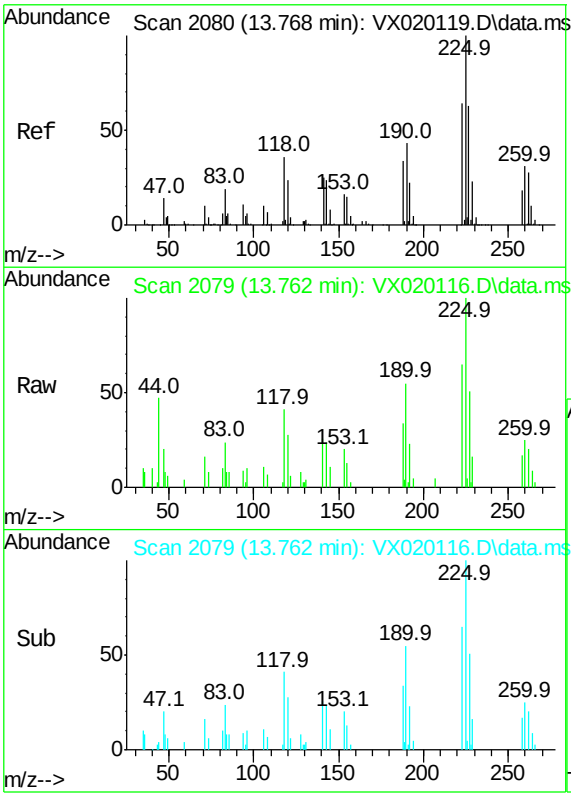


#93
1,2,4-Trichlorobenzene
Concen: 1.19 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:180 Resp: 4723

Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.7	143.1
145	32.2	15.0	45.0

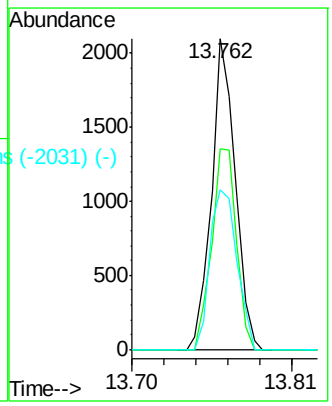




#94
Hexachlorobutadiene
Concen: 1.45 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

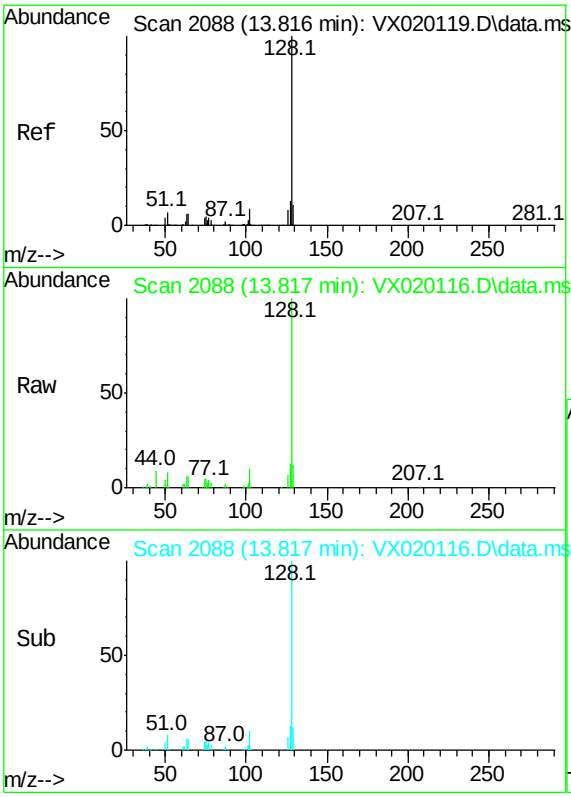
Tgt Ion:225 Resp: 2501

Ion	Ratio	Lower	Upper
225	100		
223	67.2	31.1	93.2
227	58.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

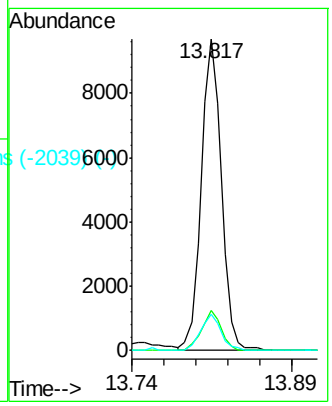
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:52 PM

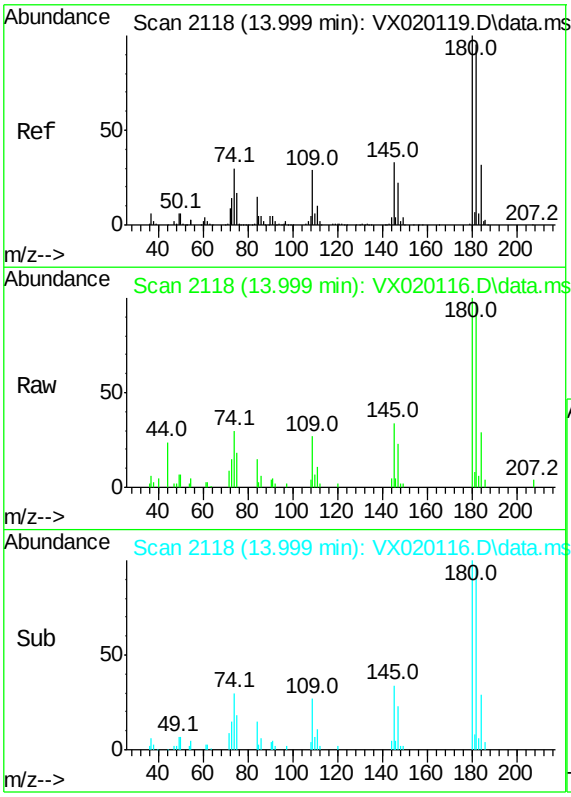


#95
Naphthalene
Concen: 0.96 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:128 Resp: 12402

Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.3	15.5
129	11.3	8.8	13.2

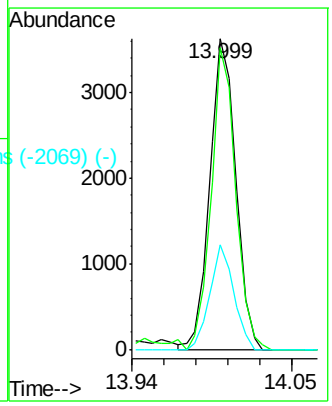




#96
1,2,3-Trichlorobenzene
Concen: 1.22 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020116.D
Acq: 18 Dec 2020 10:28

Tgt Ion:180 Resp: 4740

Ion	Ratio	Lower	Upper
180	100		
182	91.3	47.6	142.9
145	30.9	16.1	48.3



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020117.D
Acq On : 18 Dec 2020 10:59
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 12:24:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC005

Manual Integrations APPROVED
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12/21/2020 3:57:53 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.617	168	273153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.824	114	450237	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	408372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	194543	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	19166	5.24	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 10.48%#			
35) Dibromofluoromethane	5.458	113	14877	5.09	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 10.18%#			
50) Toluene-d8	8.696	98	57708	5.20	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 10.40%#			
62) 4-Bromofluorobenzene	11.122	95	20611	4.87	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 9.74%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	16542	6.56	ug/l	99
3) Chloromethane	1.313	50	19088	6.30	ug/l	100
4) Vinyl Chloride	1.392	62	20840	6.61	ug/l	100
5) Bromomethane	1.624	94	6959	6.65	ug/l	99
6) Chloroethane	1.703	64	13028	6.76	ug/l	97
7) Trichlorofluoromethane	1.910	101	27517	6.37	ug/l	99
8) Diethyl Ether	2.166	74	11228	5.90	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.361	101	15499	6.28	ug/l	98
10) Methyl Iodide	2.489	142	14592	4.02	ug/l	99
11) Tert butyl alcohol	3.014	59	25694	31.85	ug/l	96
12) 1,1-Dichloroethene	2.355	96	15335	6.11	ug/l	96
13) Acrolein	2.270	56	14527	34.25	ug/l	97
14) Allyl chloride	2.703	41	25404	5.83	ug/l	98
15) Acrylonitrile	3.111	53	49056	29.04	ug/l	100
16) Acetone	2.416	43	44772	31.93	ug/l	97
17) Carbon Disulfide	2.544	76	43103	5.93	ug/l	98
18) Methyl Acetate	2.745	43	19333	5.69	ug/l	98
19) Methyl tert-butyl Ether	3.160	73	54890	5.80	ug/l	100
20) Methylene Chloride	2.831	84	20402	5.68	ug/l	98
21) trans-1,2-Dichloroethene	3.136	96	18500	6.21	ug/l	96
22) Diisopropyl ether	3.818	45	53838	6.04	ug/l	99
23) Vinyl Acetate	3.776	43	221255	28.99	ug/l	98
24) 1,1-Dichloroethane	3.666	63	32357	6.10	ug/l	99
25) 2-Butanone	4.629	43	62801	29.11	ug/l	100
26) 2,2-Dichloropropane	4.544	77	26609	5.92	ug/l	98
27) cis-1,2-Dichloroethene	4.556	96	20443	5.82	ug/l	96
28) Bromochloromethane	4.977	49	13332	5.33	ug/l	97
29) Tetrahydrofuran	5.087	42	38331	27.60	ug/l	98
30) Chloroform	5.166	83	32835	6.01	ug/l	95
31) Cyclohexane	5.538	56	28287	6.32	ug/l	97
32) 1,1,1-Trichloroethane	5.458	97	27140	5.89	ug/l	98
36) 1,1-Dichloropropene	5.763	75	25308	6.23	ug/l	97
37) Ethyl Acetate	4.788	43	23426	5.53	ug/l	100
38) Carbon Tetrachloride	5.745	117	23552	5.95	ug/l	97
39) Methylcyclohexane	7.434	83	28893	6.13	ug/l	97
40) Benzene	6.105	78	76547	6.05	ug/l	99
41) Methacrylonitrile	5.001	41	12937	5.57	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020117.D
Acq On : 18 Dec 2020 10:59
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:53 PM

Quant Time: Dec 18 12:24:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	6.153	62	26373	6.07	ug/l		99
43) Isopropyl Acetate	6.409	43	37564	5.49	ug/l		99
44) Trichloroethene	7.184	130	19722	6.02	ug/l		97
45) 1,2-Dichloropropane	7.482	63	19110	6.01	ug/l		98
46) Dibromomethane	7.635	93	12774	5.94	ug/l		97
47) Bromodichloromethane	7.873	83	23539	5.54	ug/l		98
48) Methyl methacrylate	7.739	41	18115	5.37	ug/l		98
49) 1,4-Dioxane	7.714	88	8659	107.12	ug/l		97
51) 4-Methyl-2-Pentanone	8.616	43	116829	27.87	ug/l		99
52) Toluene	8.763	92	46952	5.96	ug/l		98
53) t-1,3-Dichloropropene	9.019	75	25017	5.32	ug/l		99
54) cis-1,3-Dichloropropene	8.409	75	28028	5.47	ug/l		99
55) 1,1,2-Trichloroethane	9.189	97	18611	5.80	ug/l		95
56) Ethyl methacrylate	9.159	69	25430	5.25	ug/l		98
57) 1,3-Dichloropropane	9.348	76	32112	5.85	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.287	63	70602	27.55	ug/l		97
59) 2-Hexanone	9.470	43	88660	27.42	ug/l		97
60) Dibromochloromethane	9.561	129	17577	5.42	ug/l		98
61) 1,2-Dibromoethane	9.653	107	18982	5.57	ug/l		100
64) Tetrachloroethene	9.311	164	18091	6.62	ug/l		95
65) Chlorobenzene	10.116	112	49665	6.07	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.201	131	17180	5.83	ug/l		98
67) Ethyl Benzene	10.232	91	84243	5.83	ug/l		97
68) m/p-Xylenes	10.342	106	64053	11.76	ug/l		100
69) o-Xylene	10.677	106	29648	5.64	ug/l		96
70) Styrene	10.695	104	47532	5.35	ug/l		98
71) Bromoform	10.836	173	11705	5.09	ug/l	#	98
73) Isopropylbenzene	11.000	105	80711	6.06	ug/l		99
74) N-amyl acetate	10.878	43	28436	5.25	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.250	83	28709	6.04	ug/l		100
76) 1,2,3-Trichloropropane	11.274	75	27035m	6.11	ug/l		
77) Bromobenzene	11.238	156	21014	6.12	ug/l		99
78) n-propylbenzene	11.342	91	91470	6.02	ug/l		99
79) 2-Chlorotoluene	11.402	91	56824	6.02	ug/l		99
80) 1,3,5-Trimethylbenzene	11.488	105	66919	5.95	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.055	75	7336	4.80	ug/l		89
82) 4-Chlorotoluene	11.494	91	66245	5.99	ug/l		98
83) tert-Butylbenzene	11.750	119	63631	5.81	ug/l		96
84) 1,2,4-Trimethylbenzene	11.793	105	66866	5.87	ug/l		100
85) sec-Butylbenzene	11.927	105	74197	5.96	ug/l		100
86) p-Isopropyltoluene	12.049	119	67261	5.87	ug/l		99
87) 1,3-Dichlorobenzene	12.006	146	36650	5.84	ug/l		98
88) 1,4-Dichlorobenzene	12.079	146	38742	6.05	ug/l		97
89) n-Butylbenzene	12.372	91	55898	5.53	ug/l		99
90) Hexachloroethane	12.579	117	11191	5.66	ug/l		99
91) 1,2-Dichlorobenzene	12.372	146	36975	6.03	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	5532	5.40	ug/l		90
93) 1,2,4-Trichlorobenzene	13.628	180	21987	5.55	ug/l		97
94) Hexachlorobutadiene	13.762	225	10812	6.25	ug/l		98
95) Naphthalene	13.817	128	64319	4.96	ug/l		99
96) 1,2,3-Trichlorobenzene	14.000	180	21478	5.53	ug/l		98

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

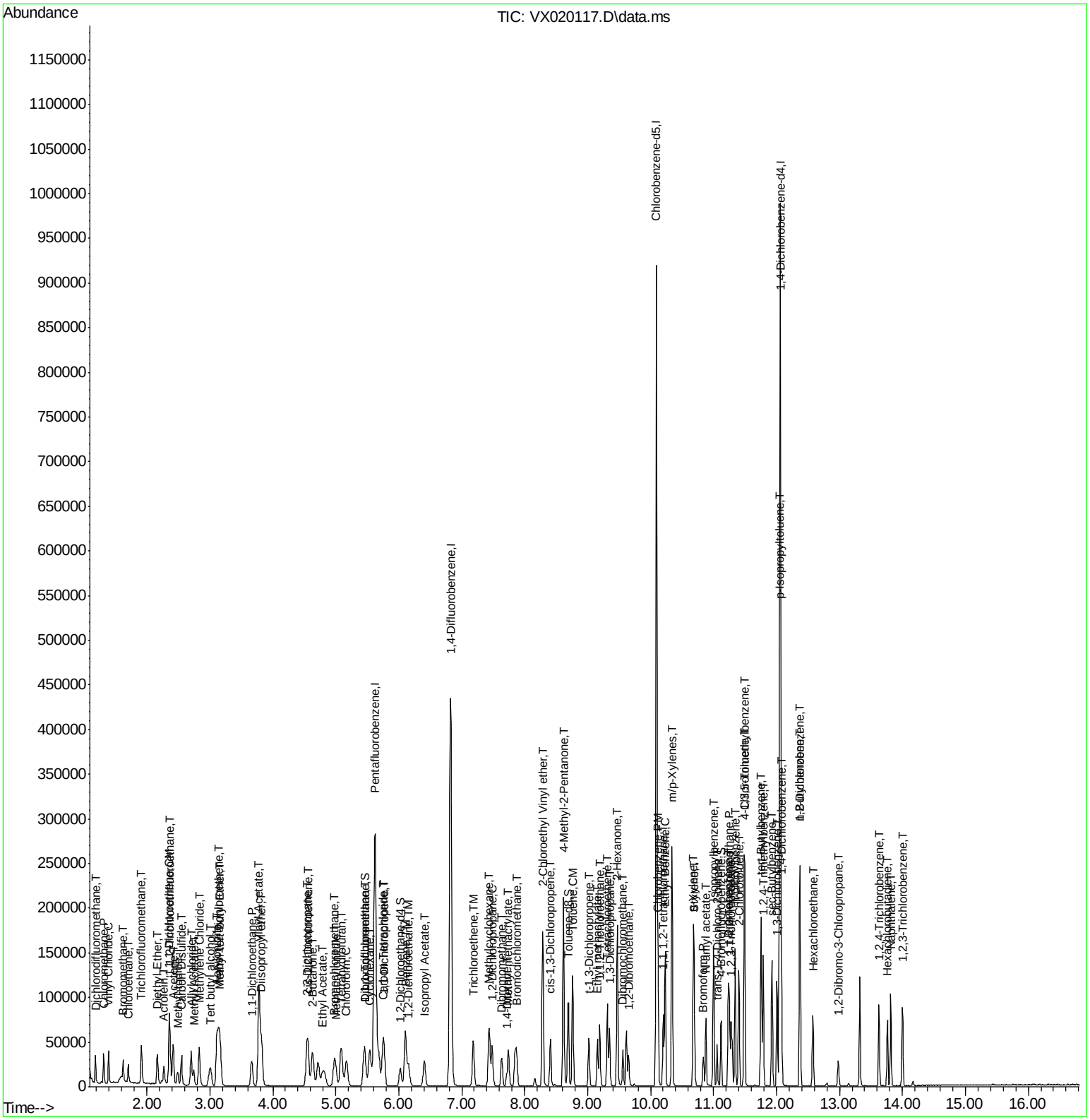
MMDadoda
12/21/2020 3:57:53 PM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020117.D
Acq On : 18 Dec 2020 10:59
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 12:24:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:53 PM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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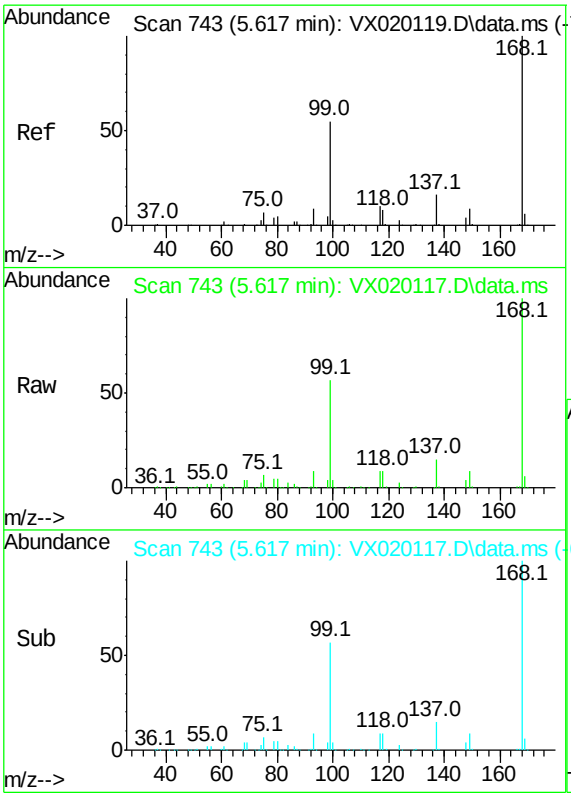
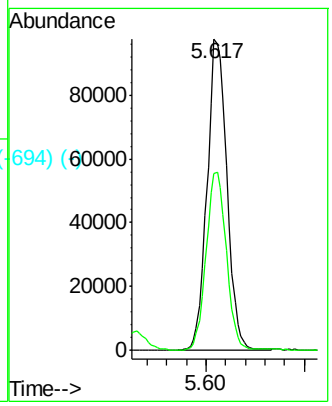
12/21/2020 3:57:53 PM

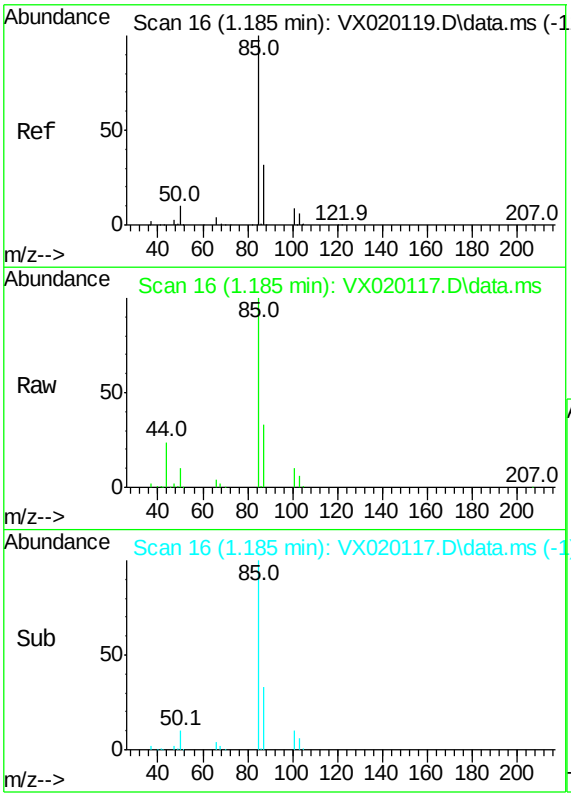


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.617 min Scan# 743
Delta R.T. -0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:168 Resp: 273153

Ion	Ratio	Lower	Upper
168	100		
99	56.6	45.8	68.6

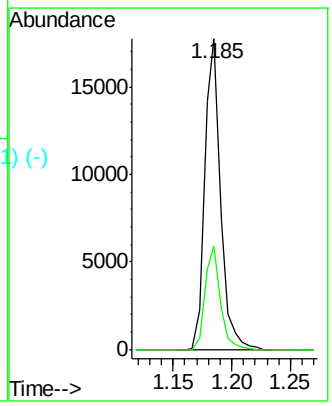




#2
Dichlorodifluoromethane
Concen: 6.56 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

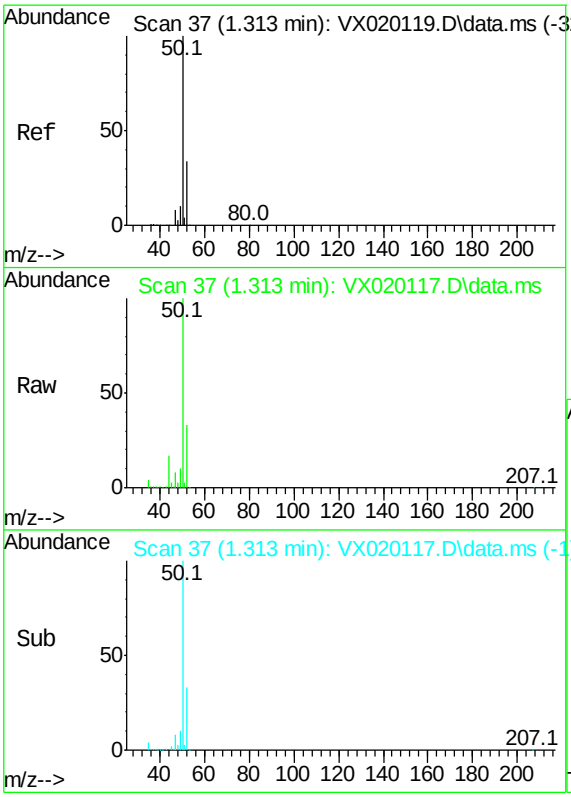
Tgt Ion: 85 Resp: 16542

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

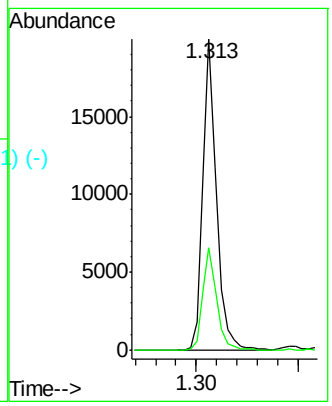
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:53 PM

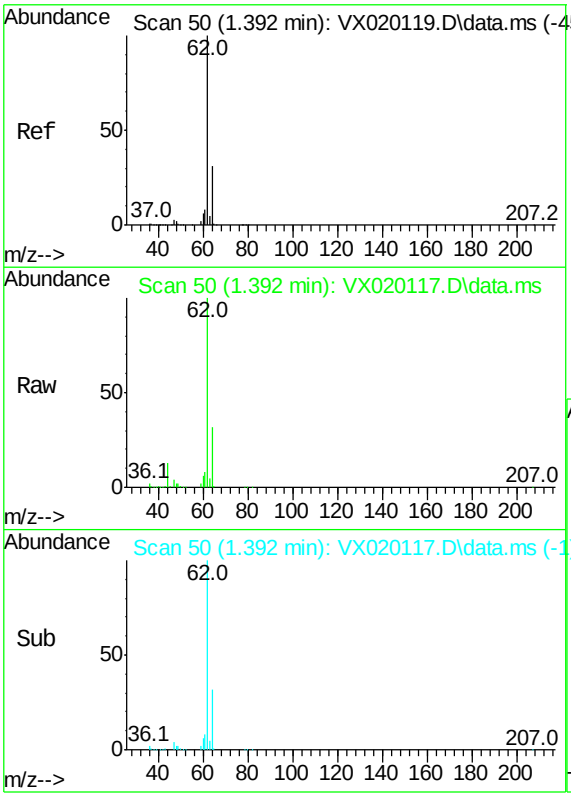


#3
Chloromethane
Concen: 6.30 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 50 Resp: 19088

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.4	39.6

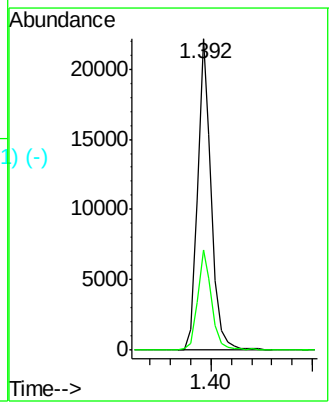




#4
Vinyl Chloride
Concen: 6.61 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

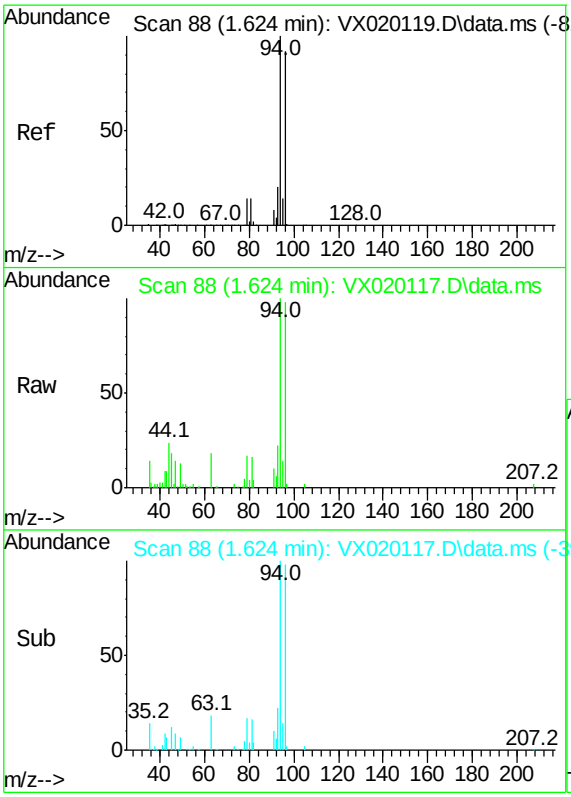
Tgt Ion: 62 Resp: 20840

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

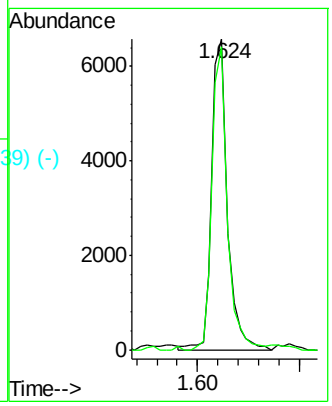
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:53 PM

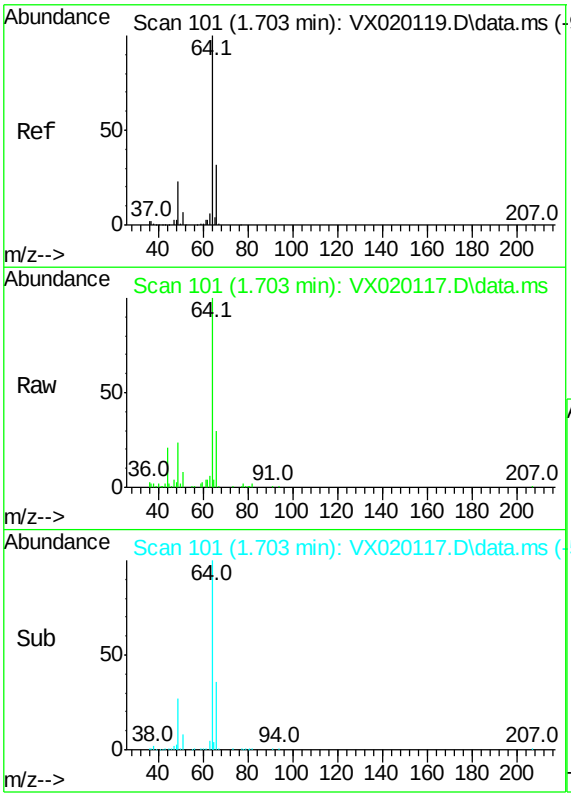


#5
Bromomethane
Concen: 6.65 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 94 Resp: 6959

Ion	Ratio	Lower	Upper
94	100		
96	96.5	76.4	114.6

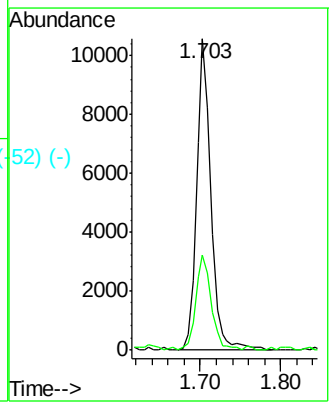




#6
Chloroethane
Concen: 6.76 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 64 Resp: 13028

Ion	Ratio	Lower	Upper
64	100		
66	30.2	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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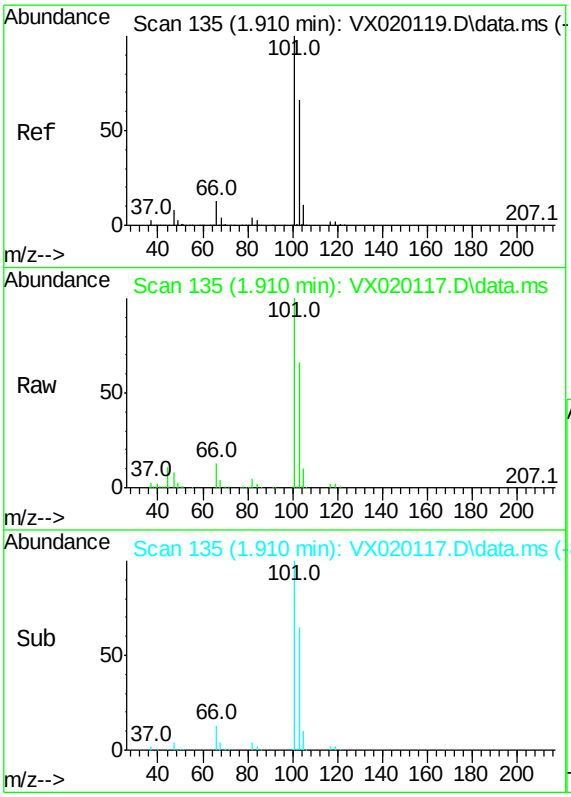
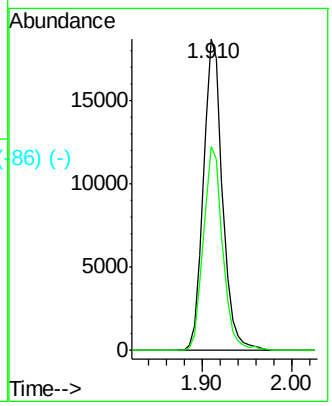
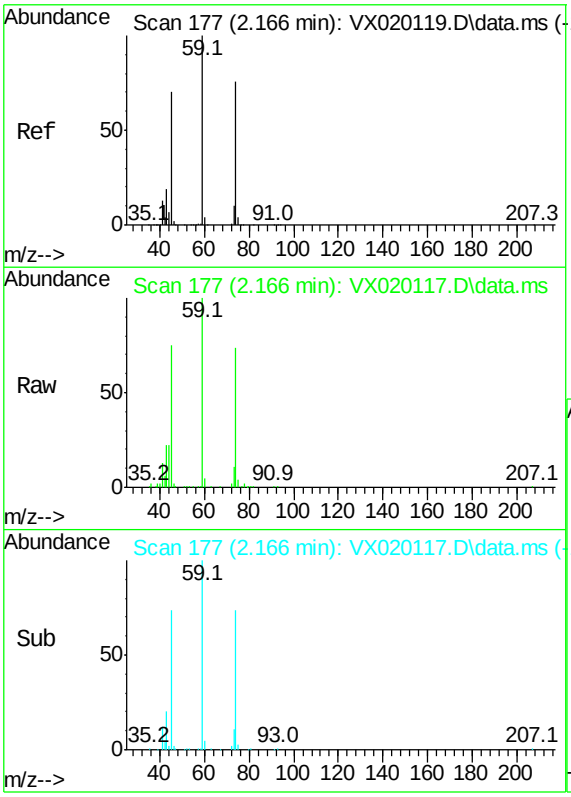


#7
Trichlorofluoromethane
Concen: 6.37 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:101 Resp: 27517

Ion	Ratio	Lower	Upper
101	100		
103	65.5	53.2	79.8

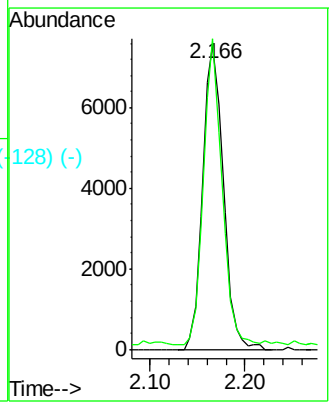




#8
Diethyl Ether
Concen: 5.90 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 74 Resp: 11228

Ion	Ratio	Lower	Upper
74	100		
45	89.8	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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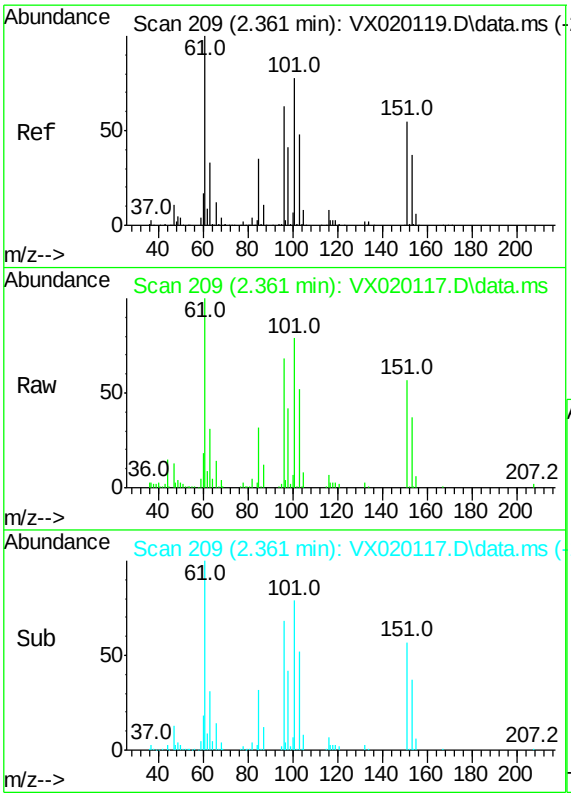
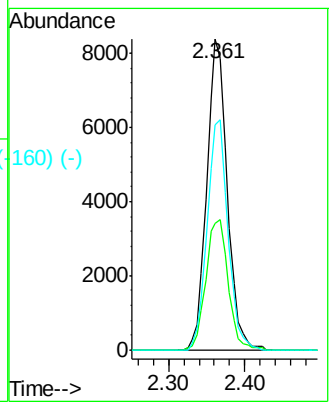
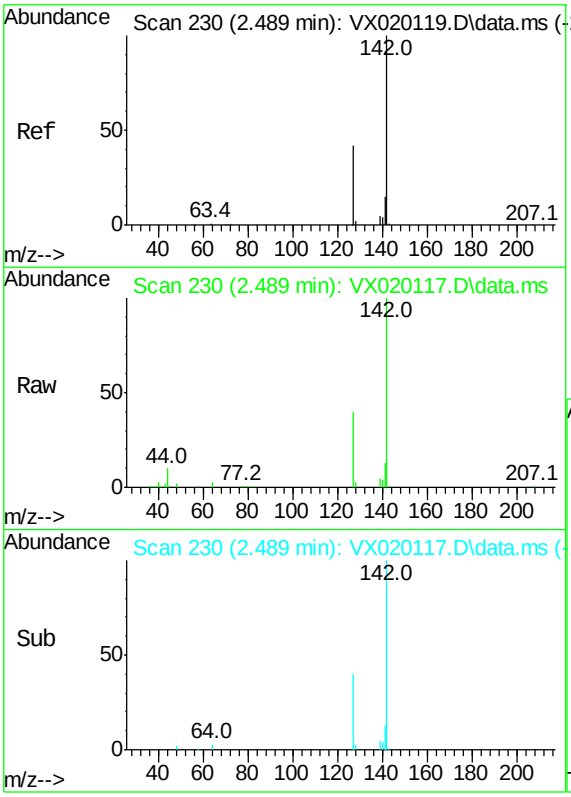


#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.28 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:101 Resp: 15499

Ion	Ratio	Lower	Upper
101	100		
85	45.6	34.9	52.3
151	75.4	61.4	92.2

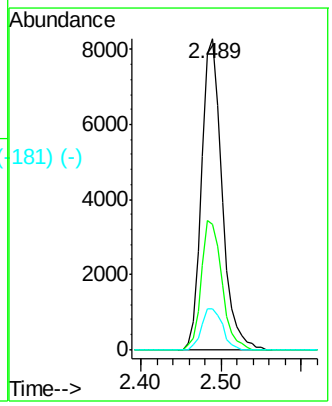




#10
Methyl Iodide
Concen: 4.02 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:142 Resp: 14592

Ion	Ratio	Lower	Upper
142	100		
127	42.0	33.3	49.9
141	13.2	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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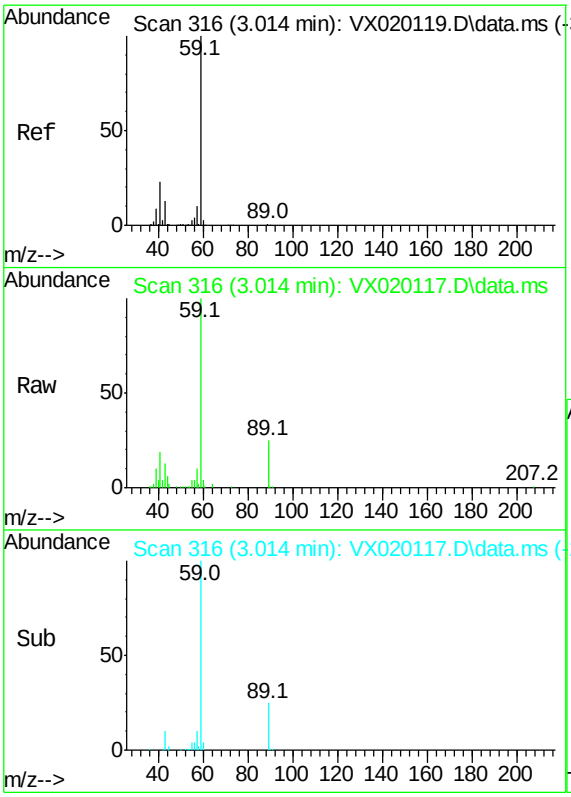
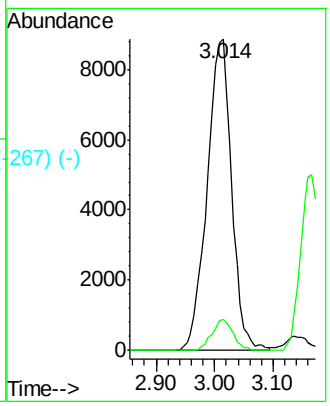
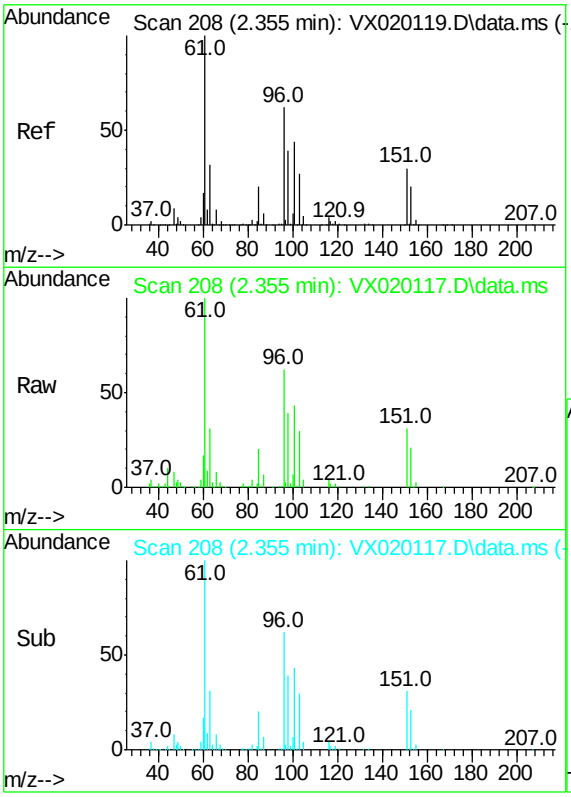


#11
Tert butyl alcohol
Concen: 31.85 ug/l
RT: 3.014 min Scan# 316
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 59 Resp: 25694

Ion	Ratio	Lower	Upper
59	100		
57	8.2	7.8	11.8

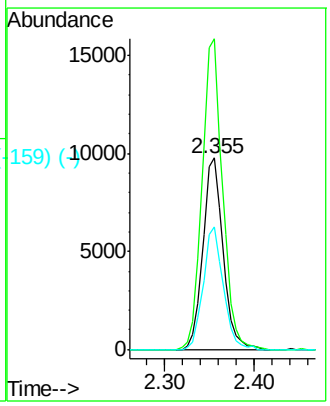




#12
1,1-Dichloroethene
Concen: 6.11 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 96 Resp: 15335

Ion	Ratio	Lower	Upper
96	100		
61	162.2	124.6	187.0
98	63.7	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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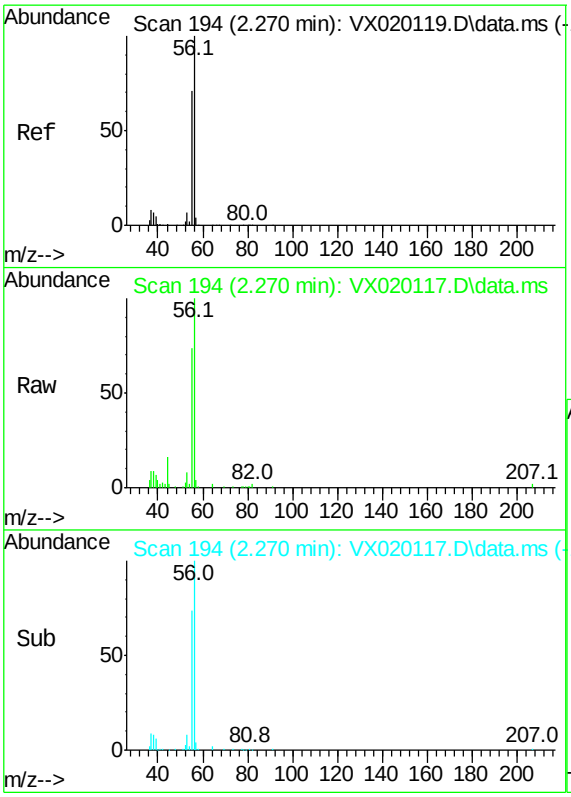
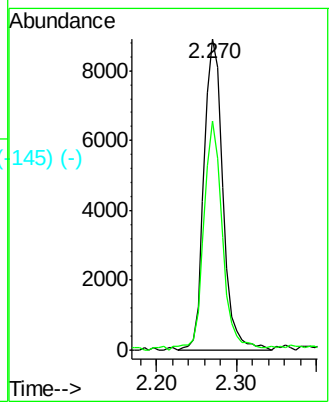
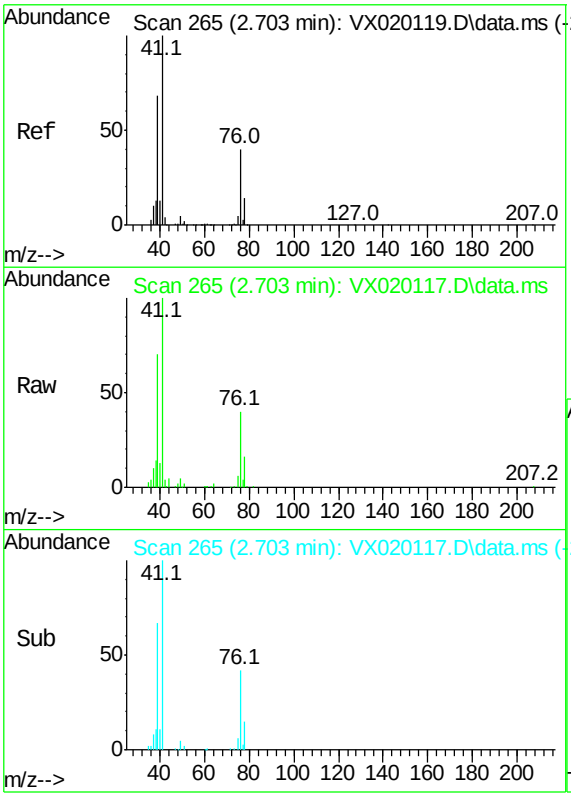


#13
Acrolein
Concen: 34.25 ug/l
RT: 2.270 min Scan# 194
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 56 Resp: 14527

Ion	Ratio	Lower	Upper
56	100		
55	73.0	56.4	84.6

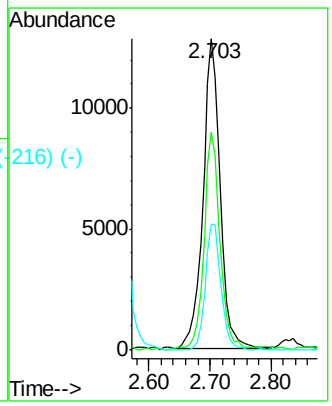




#14
Allyl chloride
Concen: 5.83 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 41 Resp: 25404

Ion	Ratio	Lower	Upper
41	100		
39	65.3	51.6	77.4
76	36.3	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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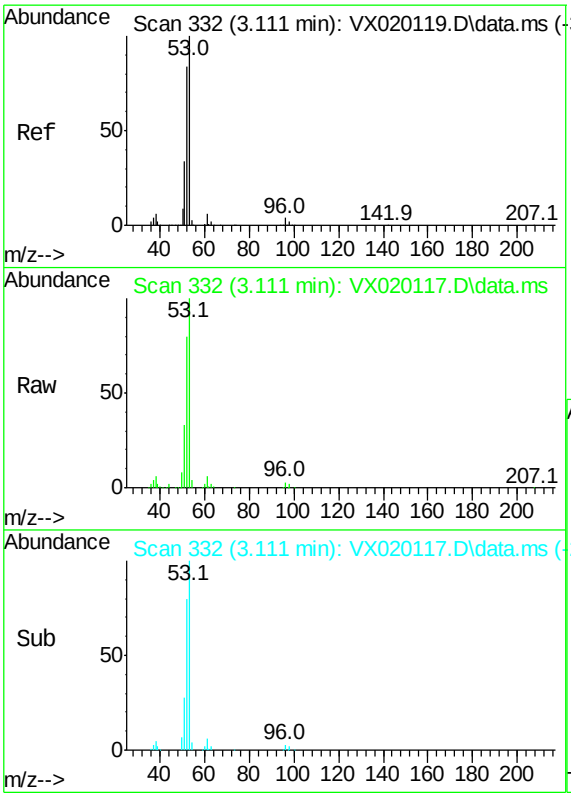
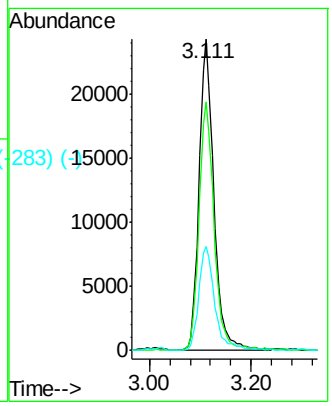
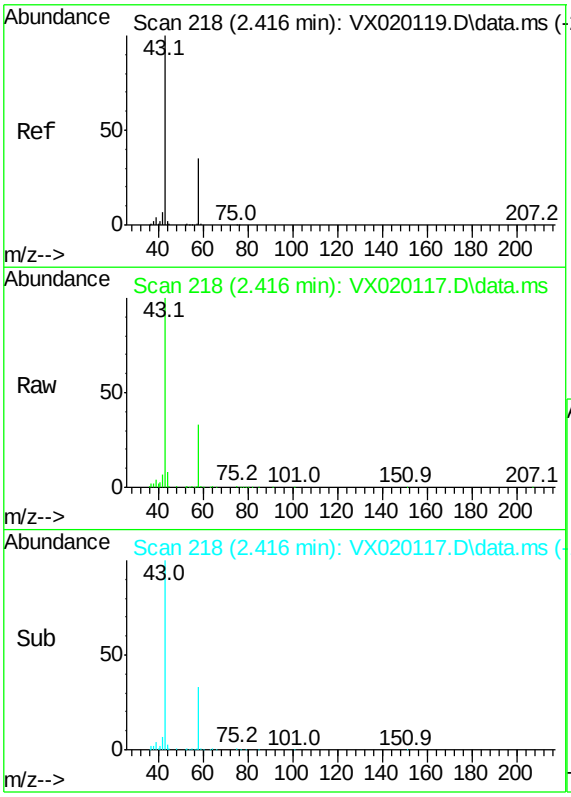


#15
Acrylonitrile
Concen: 29.04 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 53 Resp: 49056

Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.3	97.9
51	35.4	28.2	42.2

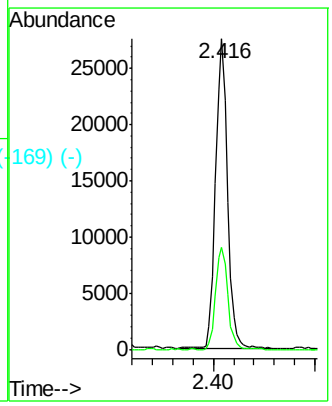




#16
Acetone
Concen: 31.93 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 44772

Ion	Ratio	Lower	Upper
43	100		
58	33.0	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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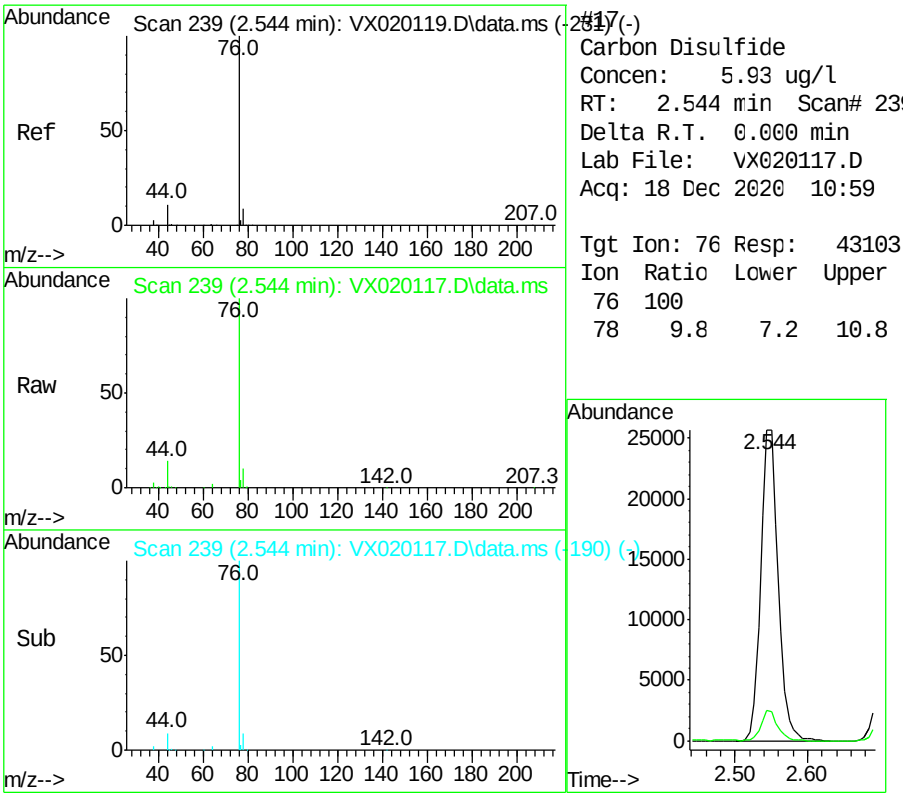
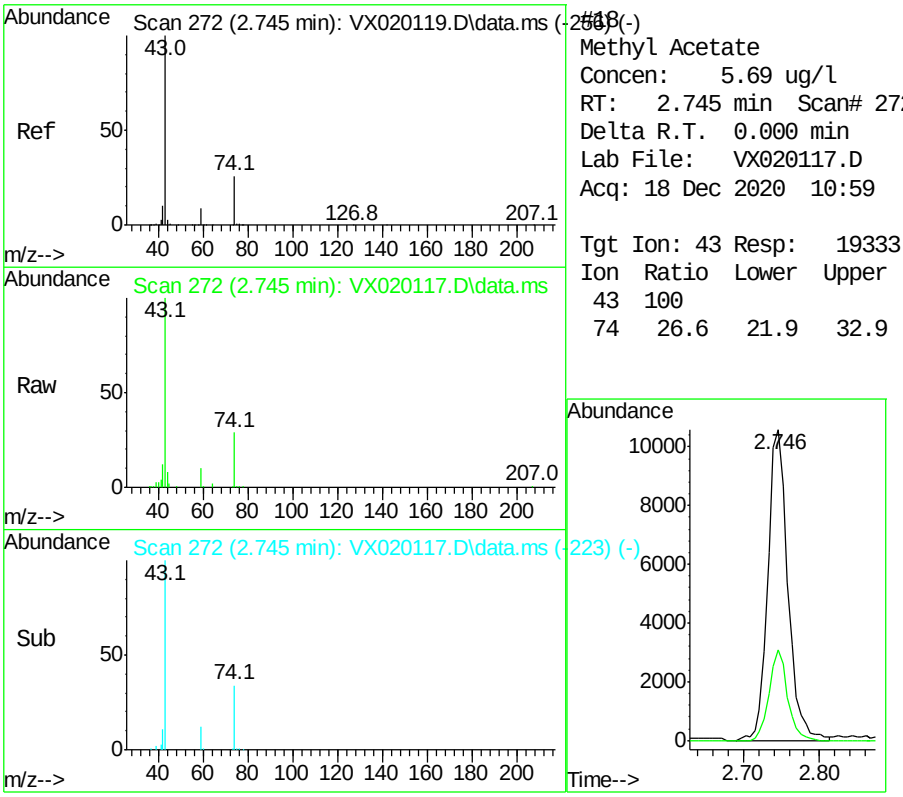


#17
Carbon Disulfide
Concen: 5.93 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 76 Resp: 43103

Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.2	10.8



#18
Methyl Acetate
Concen: 5.69 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 19333

Ion	Ratio	Lower	Upper
43	100		
74	26.6	21.9	32.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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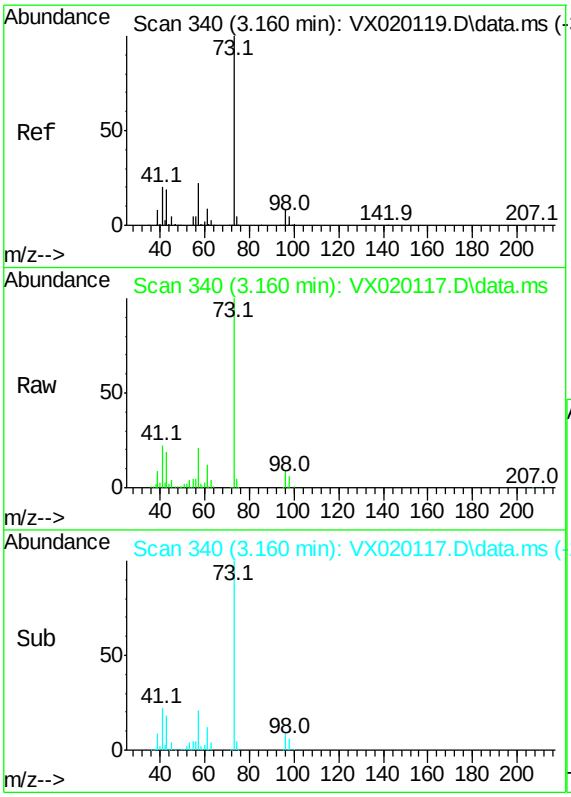
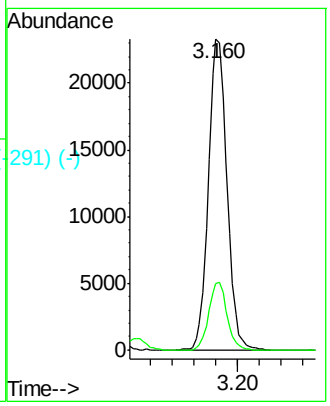
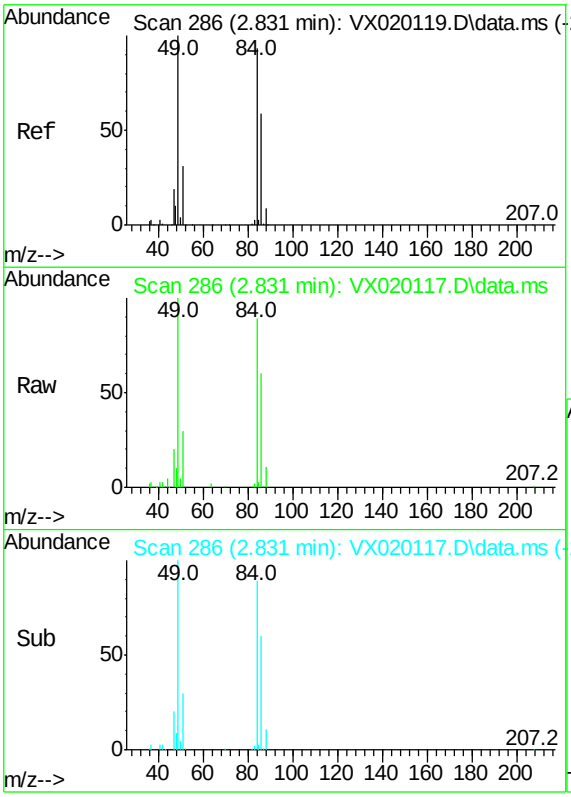


#19
Methyl tert-butyl Ether
Concen: 5.80 ug/l
RT: 3.160 min Scan# 340
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 73 Resp: 54890

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.1	25.7

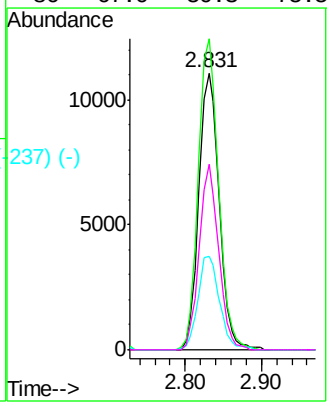




#20
Methylene Chloride
Concen: 5.68 ug/l
RT: 2.831 min Scan# 286
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 84 Resp: 20402

Ion	Ratio	Lower	Upper
84	100		
49	112.4	88.6	132.8
51	33.7	27.0	40.6
86	67.0	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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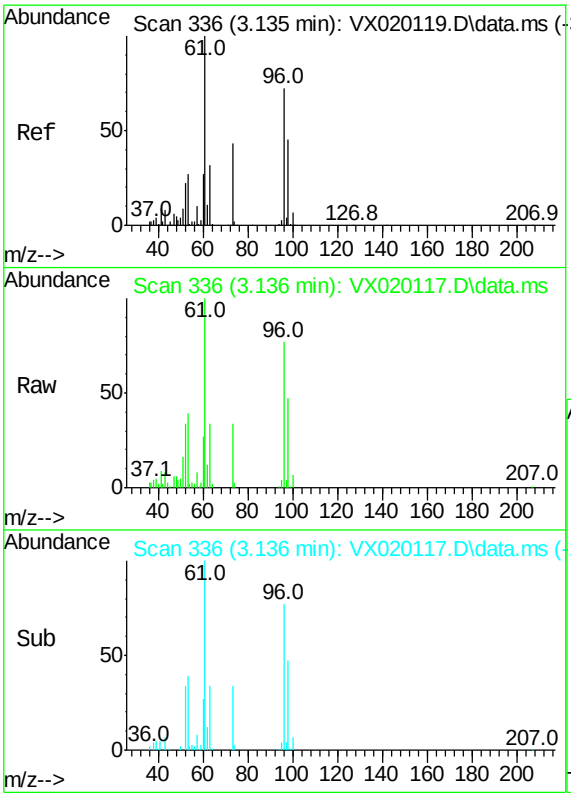
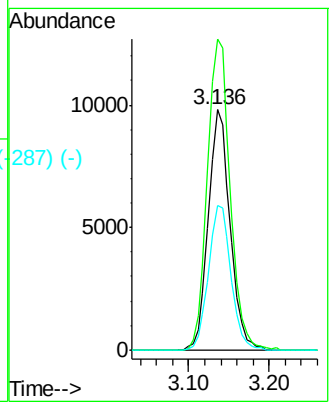
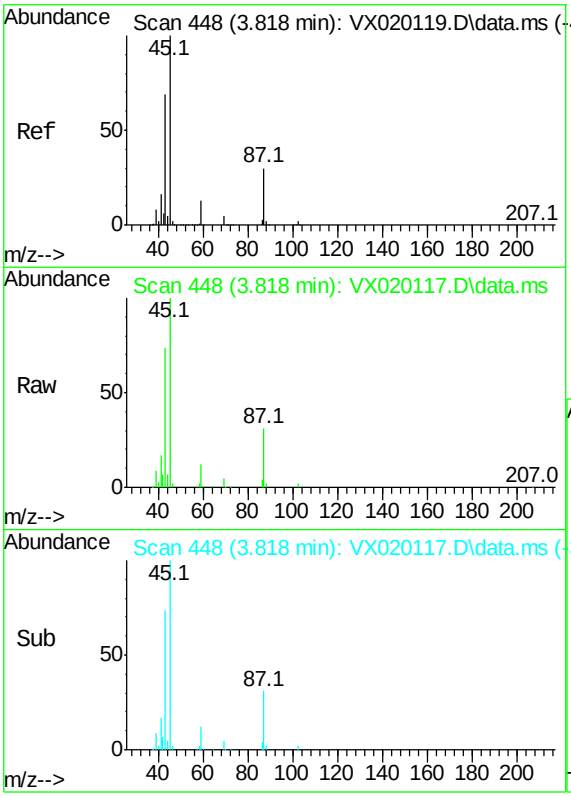


#21
trans-1,2-Dichloroethene
Concen: 6.21 ug/l
RT: 3.136 min Scan# 336
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 96 Resp: 18500

Ion	Ratio	Lower	Upper
96	100		
61	129.4	107.7	161.5
98	60.3	50.4	75.6

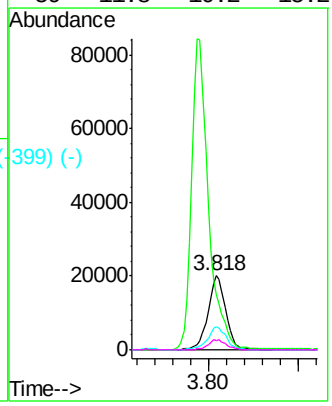




#22
Diisopropyl ether
Concen: 6.04 ug/l
RT: 3.818 min Scan# 448
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 45 Resp: 53838

Ion	Ratio	Lower	Upper
45	100		
43	73.4	58.0	87.0
87	31.0	25.4	38.0
59	11.8	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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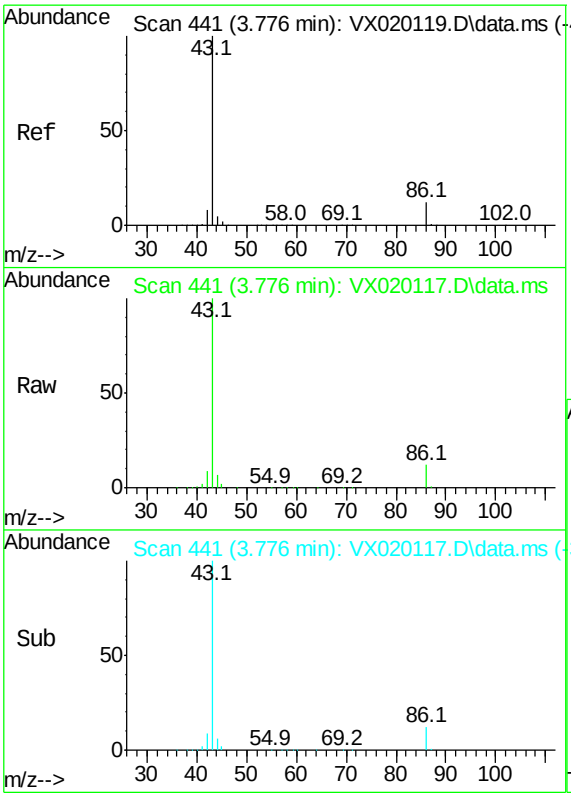
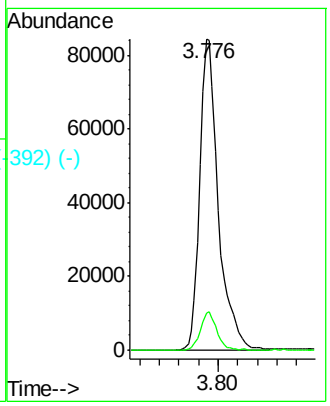
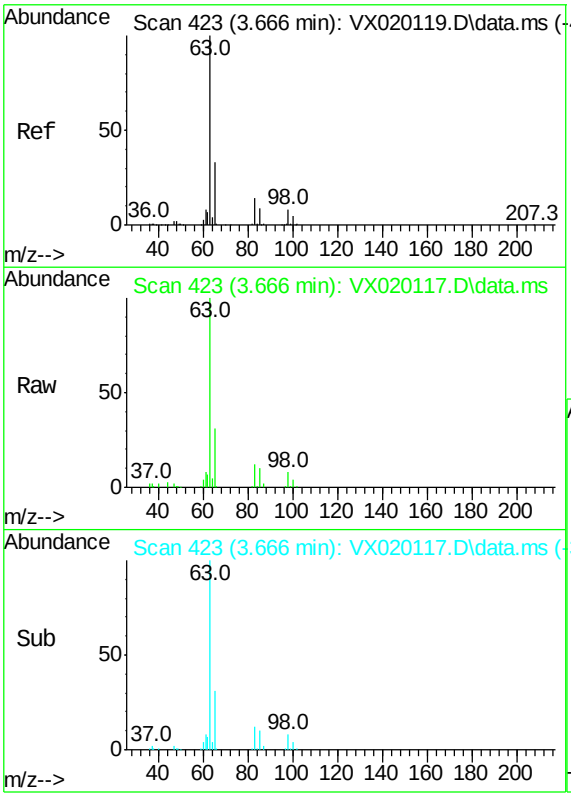


#23
Vinyl Acetate
Concen: 28.99 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 221255

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.9	14.9

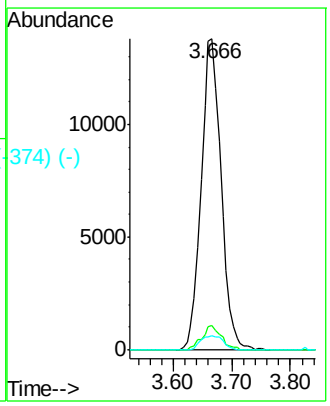




#24
1,1-Dichloroethane
Concen: 6.10 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 63 Resp: 32357

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.8	11.2
100	4.3	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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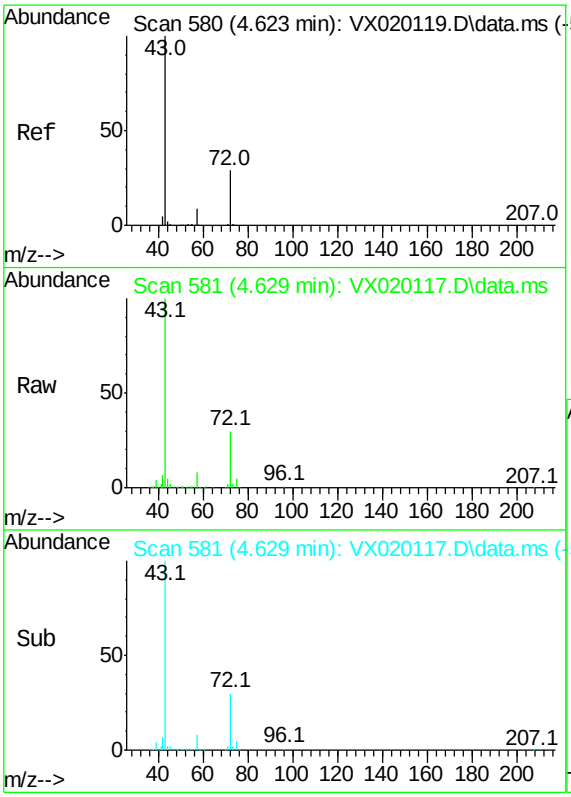
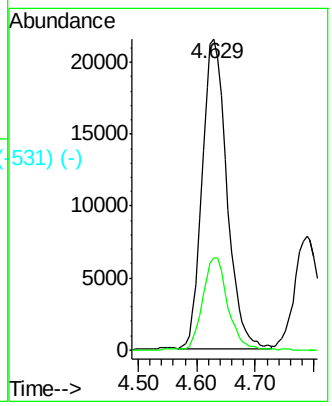
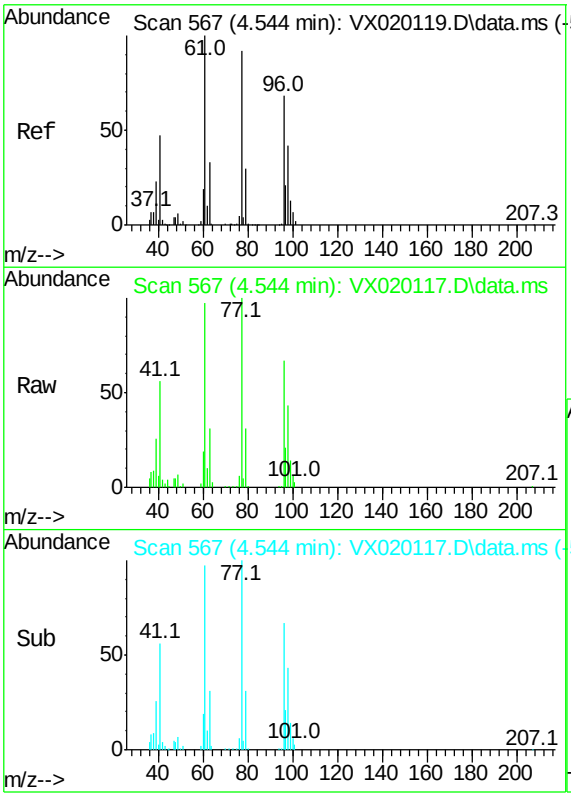


#25
2-Butanone
Concen: 29.11 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 62801

Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.7	35.5

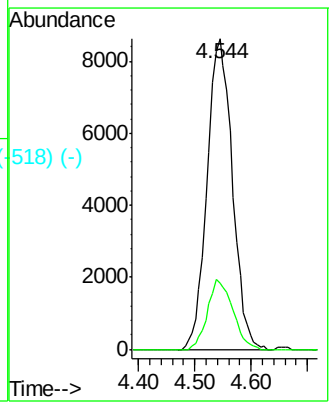




#26
2,2-Dichloropropane
Concen: 5.92 ug/l
RT: 4.544 min Scan# 567
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 77 Resp: 26609

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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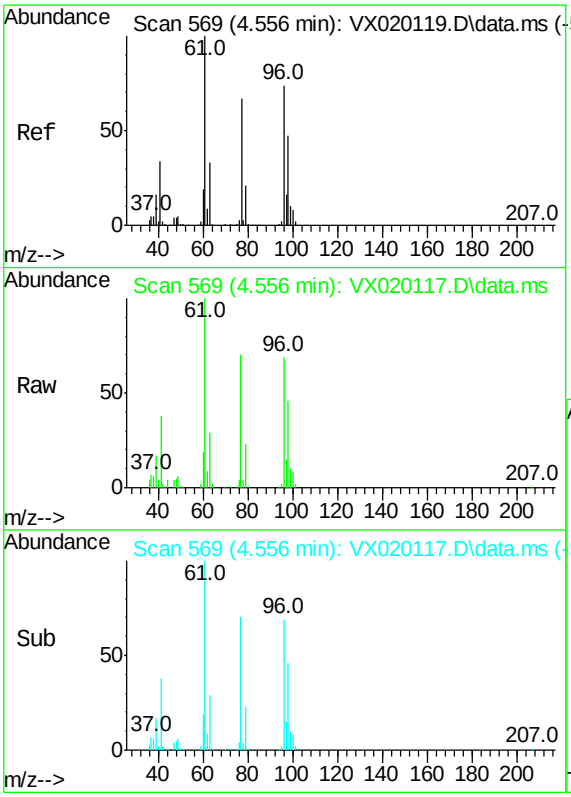
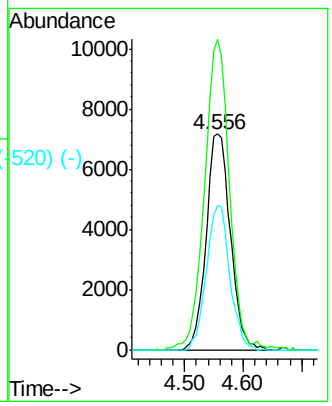
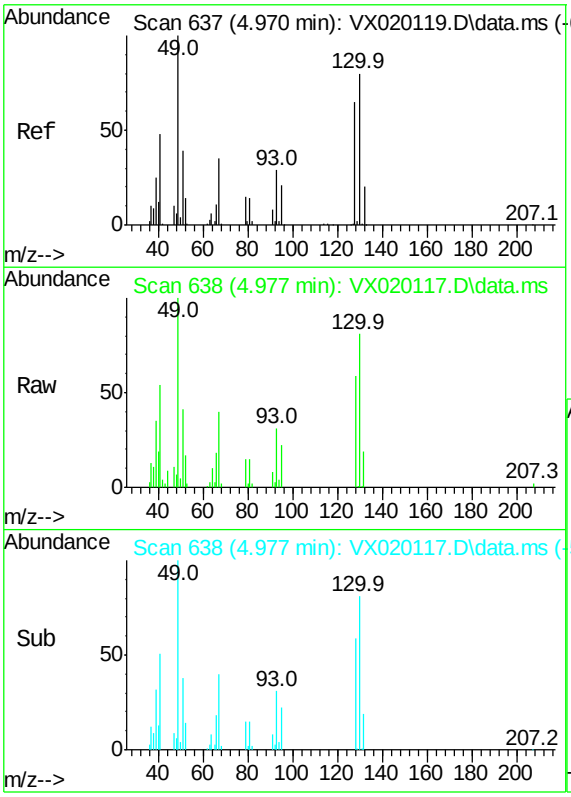


#27 (-)
cis-1,2-Dichloroethene
Concen: 5.82 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 96 Resp: 20443

Ion	Ratio	Lower	Upper
96	100		
61	149.1	0.0	285.6
98	64.9	0.0	129.6

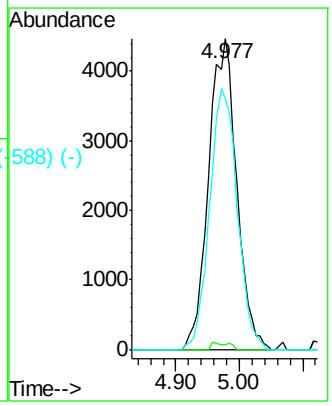




#28 (-)
Bromochloromethane
Concen: 5.33 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 49 Resp: 13332

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.0
130	82.4	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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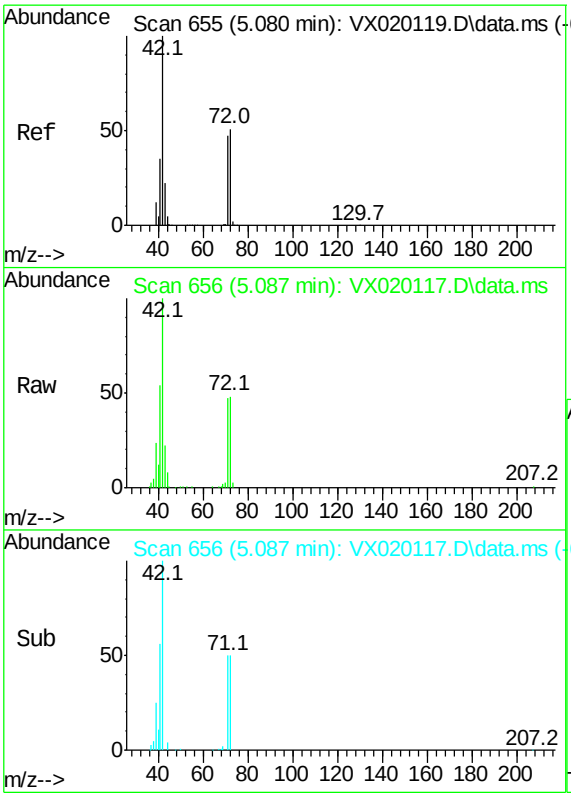
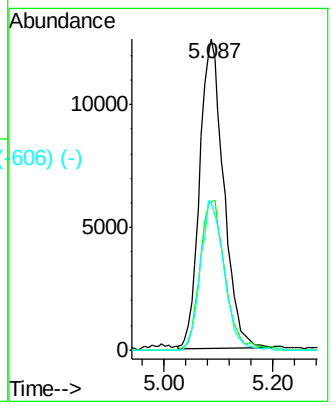
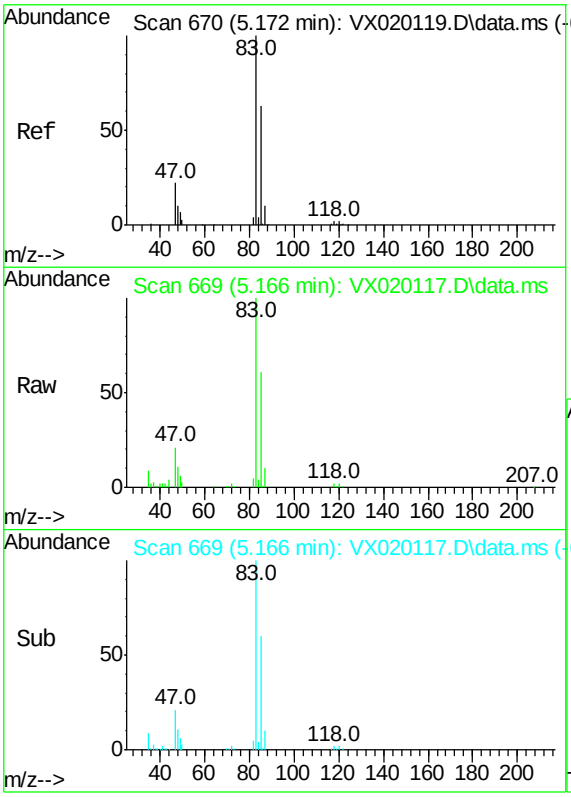


#29
Tetrahydrofuran
Concen: 27.60 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 42 Resp: 38331

Ion	Ratio	Lower	Upper
42	100		
72	50.3	41.7	62.5
71	47.6	38.4	57.6

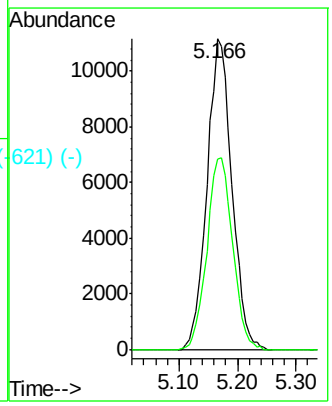




#30
Chloroform
Concen: 6.01 ug/l
RT: 5.166 min Scan# 669
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 83 Resp: 32835

Ion	Ratio	Lower	Upper
83	100		
85	61.4	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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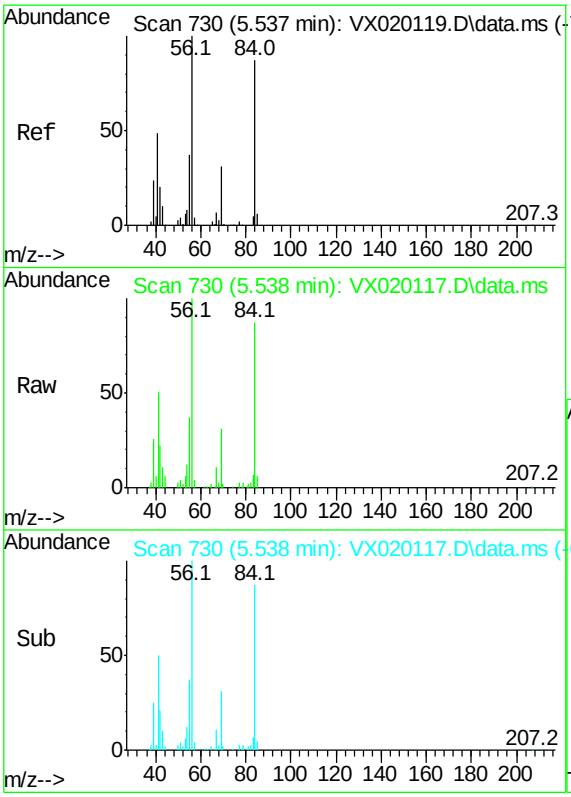
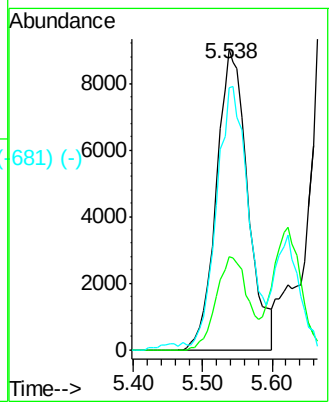
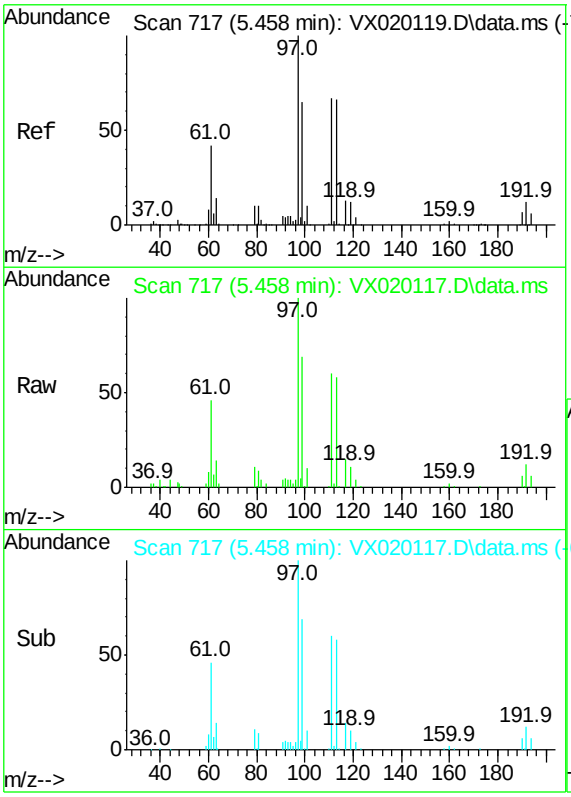


#31 (-)
Cyclohexane
Concen: 6.32 ug/l
RT: 5.538 min Scan# 730
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 56 Resp: 28287

Ion	Ratio	Lower	Upper
56	100		
69	31.2	25.3	37.9
84	86.2	71.4	107.0

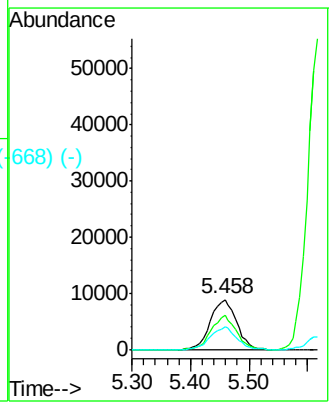




#32 (-)
1,1,1-Trichloroethane
Concen: 5.89 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 97 Resp: 27140

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.5	77.3
61	45.2	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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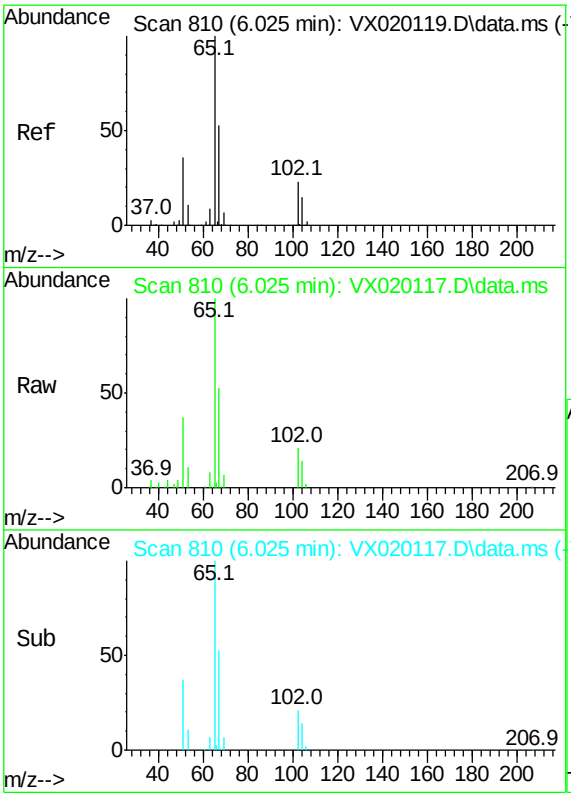
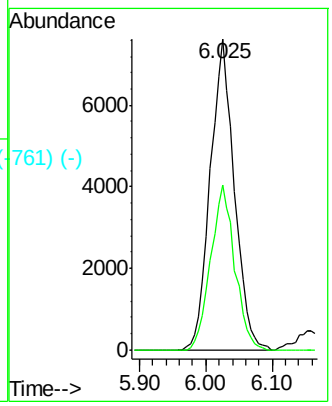
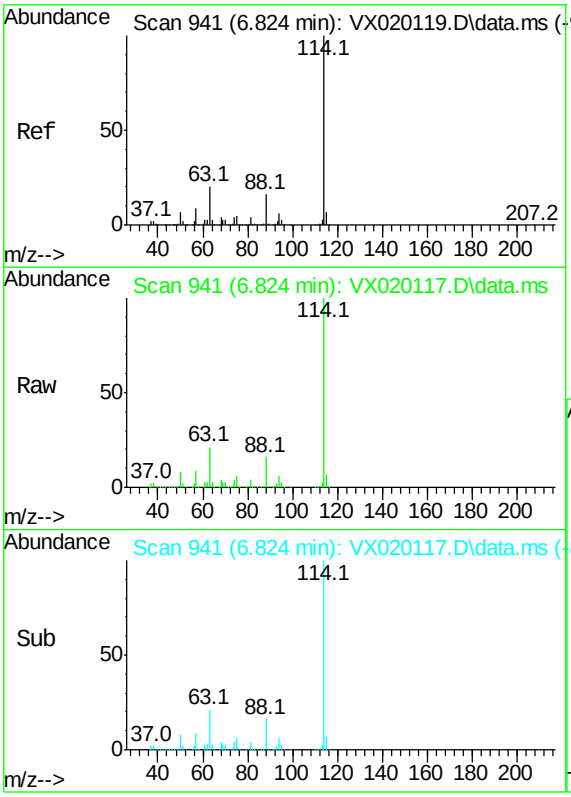


#33
1,2-Dichloroethane-d4
Concen: 5.24 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 65 Resp: 19166

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	105.4

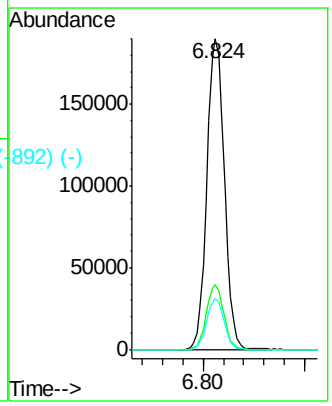




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.824 min Scan# 941
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:114 Resp: 450237

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.8
88	16.3	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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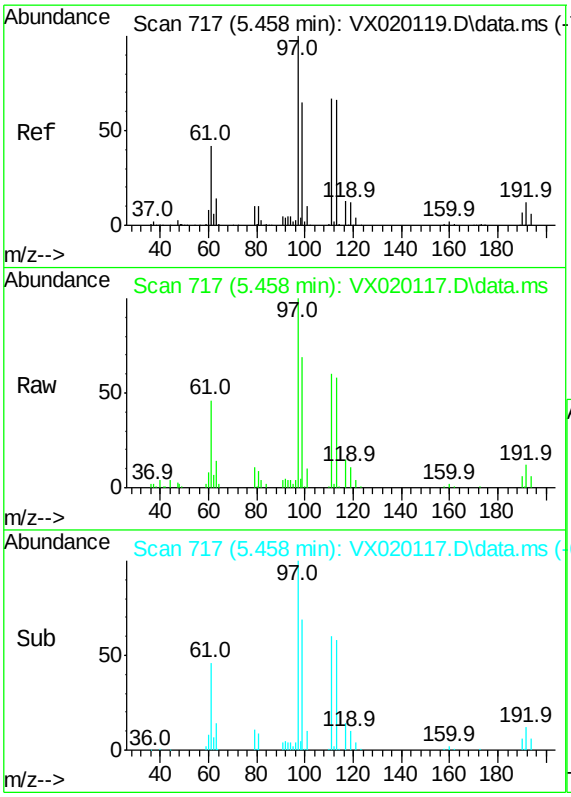
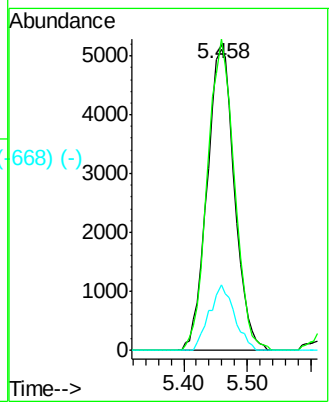
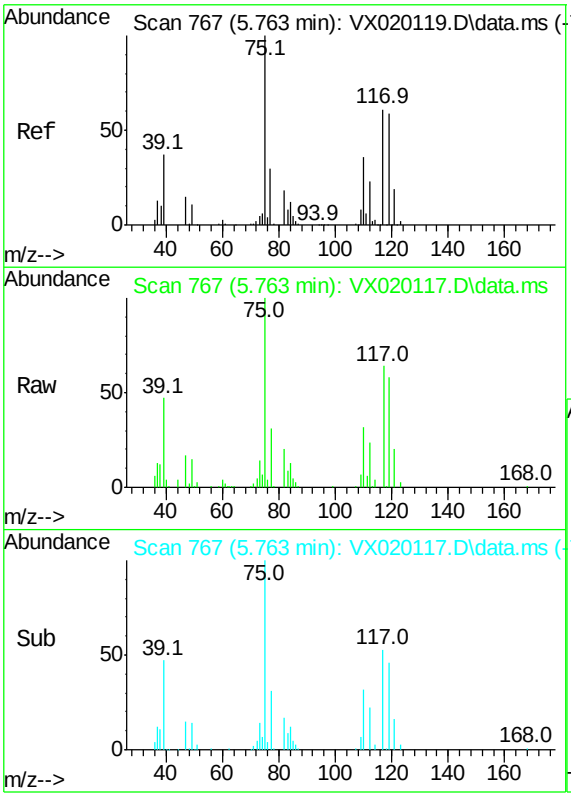


#35
Dibromofluoromethane
Concen: 5.09 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:113 Resp: 14877

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.9	122.9
192	19.5	16.7	25.1

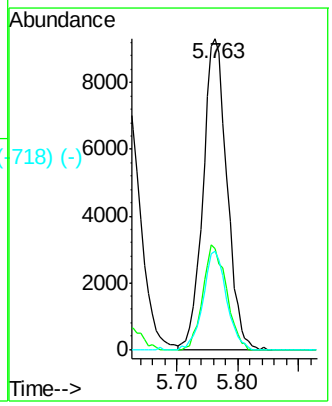




#36
1,1-Dichloropropene
Concen: 6.23 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 75 Resp: 25308

Ion	Ratio	Lower	Upper
75	100		
110	33.3	18.1	54.4
77	31.0	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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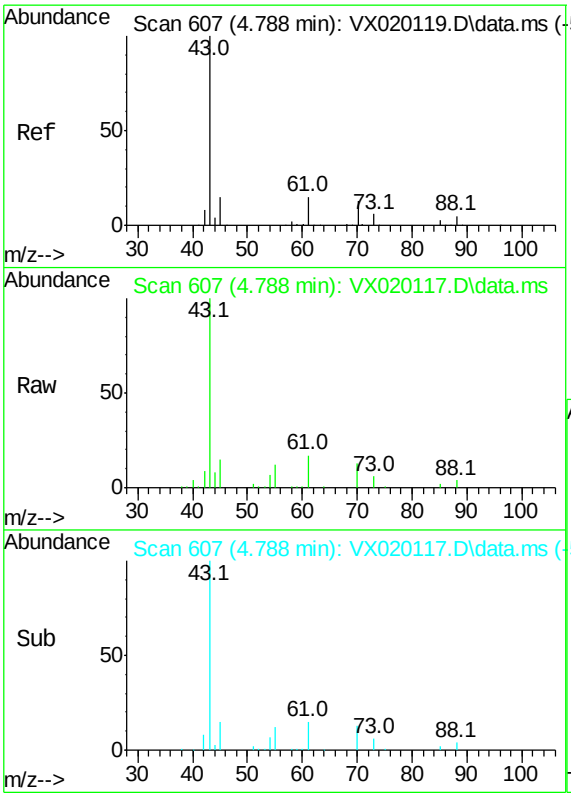
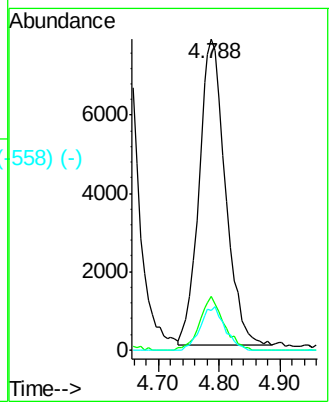
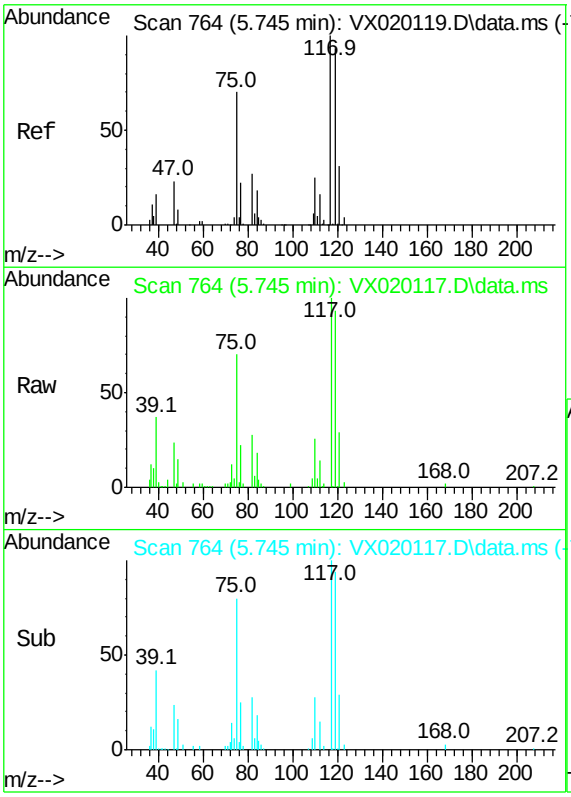


#37
Ethyl Acetate
Concen: 5.53 ug/l
RT: 4.788 min Scan# 607
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 23426

Ion	Ratio	Lower	Upper
43	100		
61	15.9	12.8	19.2
70	13.0	10.5	15.7

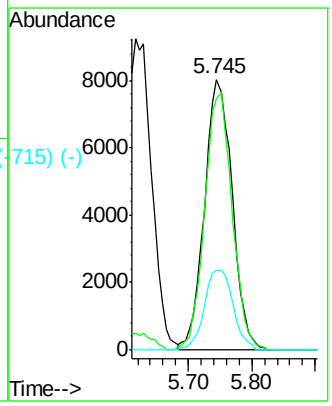




#38
Carbon Tetrachloride
Concen: 5.95 ug/l
RT: 5.745 min Scan# 764
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:117 Resp: 23552

Ion	Ratio	Lower	Upper
117	100		
119	92.9	76.2	114.2
121	29.3	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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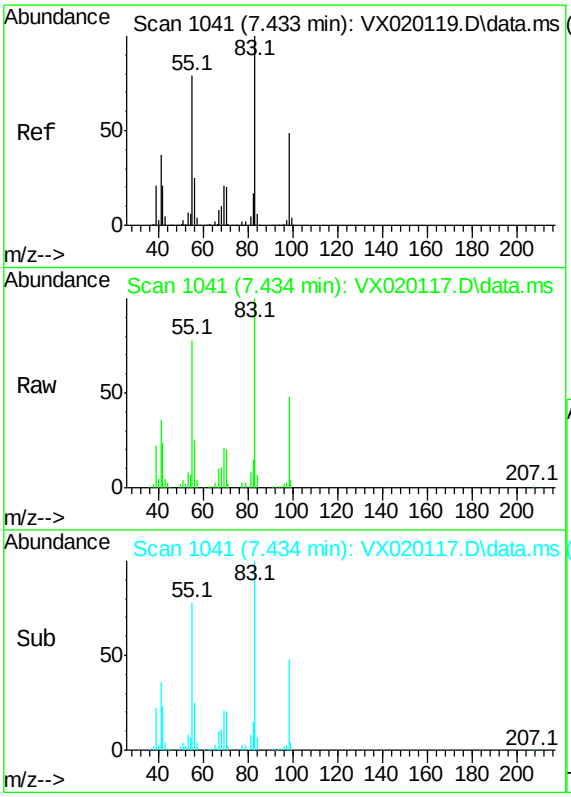
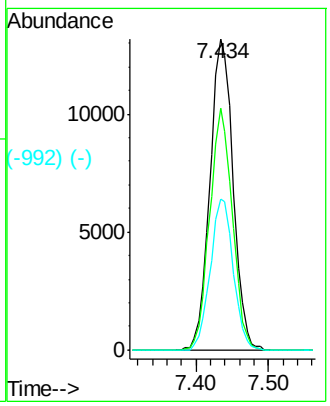
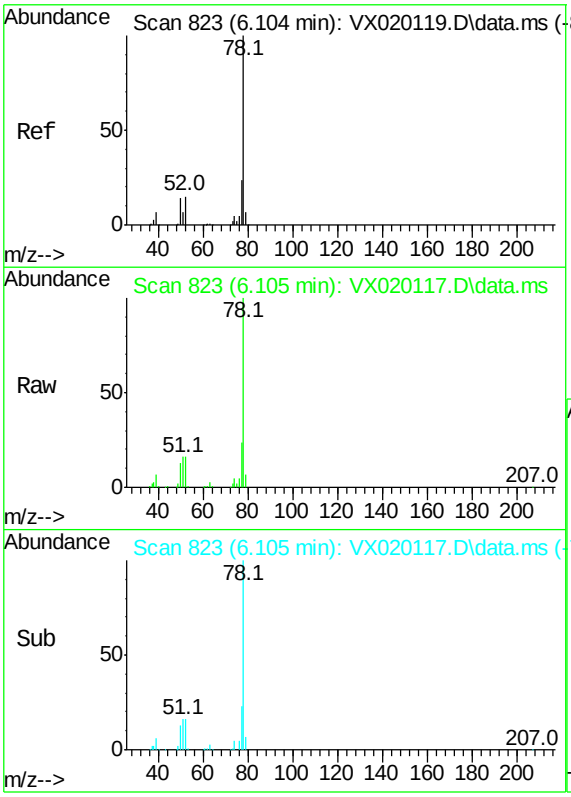


#39
Methylcyclohexane
Concen: 6.13 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 83 Resp: 28893

Ion	Ratio	Lower	Upper
83	100		
55	77.6	58.9	88.3
98	48.4	38.1	57.1

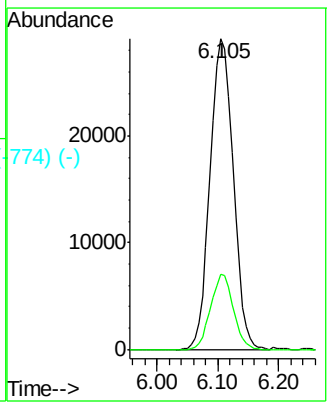




#40
Benzene
Concen: 6.05 ug/l
RT: 6.105 min Scan# 823
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 78 Resp: 76547

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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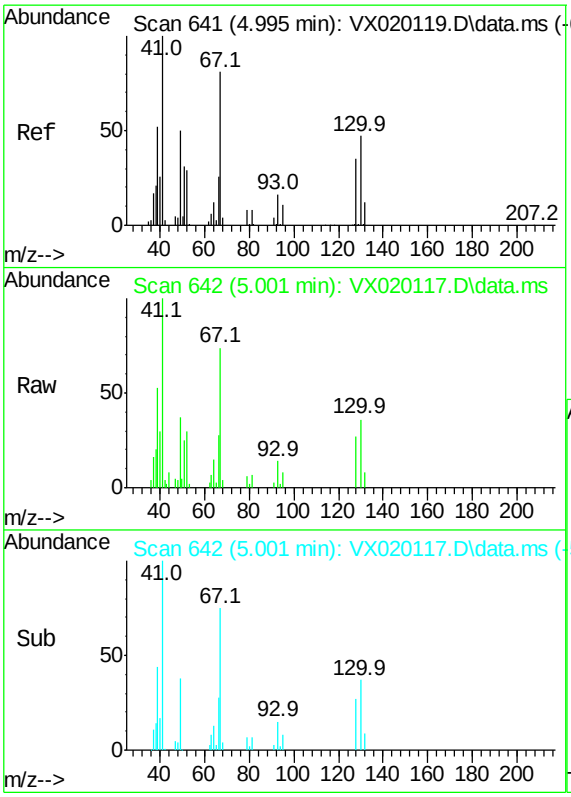
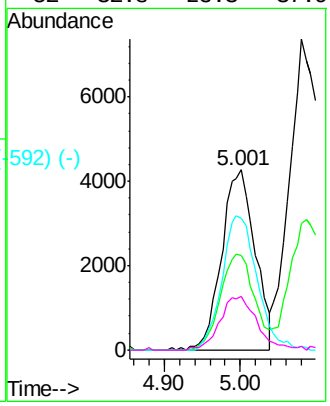
12/21/2020 3:57:53 PM

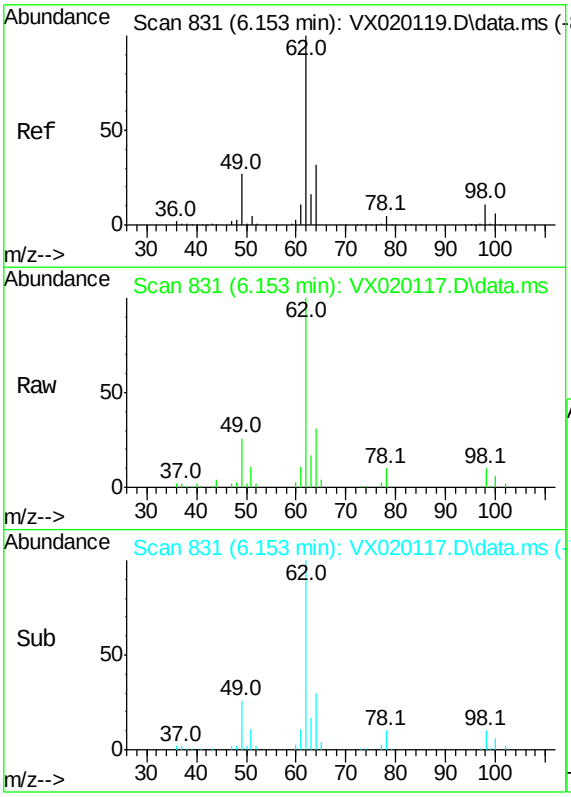


#41
Methacrylonitrile
Concen: 5.57 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 41 Resp: 12937

Ion	Ratio	Lower	Upper
41	100		
39	54.1	42.5	63.7
67	78.6	65.0	97.6
52	32.8	25.3	37.9

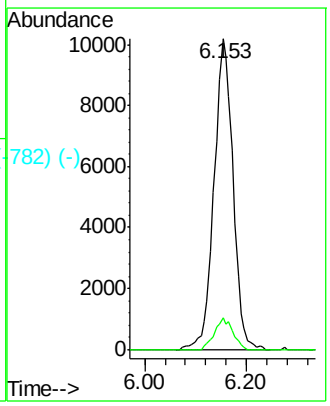




#42
1,2-Dichloroethane
Concen: 6.07 ug/l
RT: 6.153 min Scan# 831
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 62 Resp: 26373

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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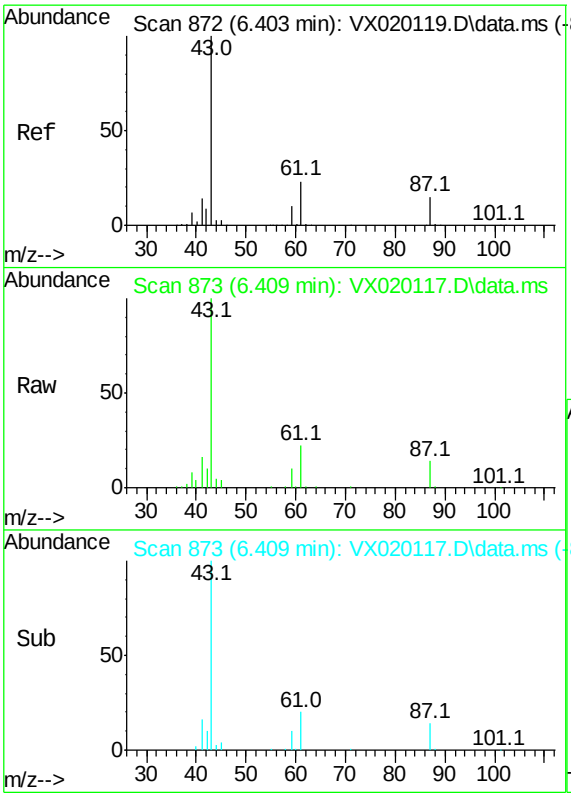
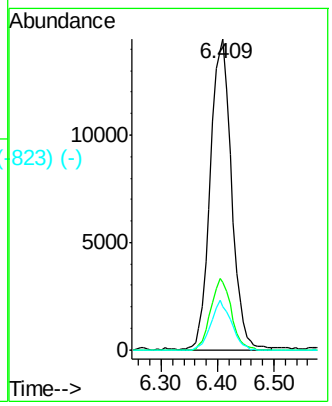
12/21/2020 3:57:53 PM

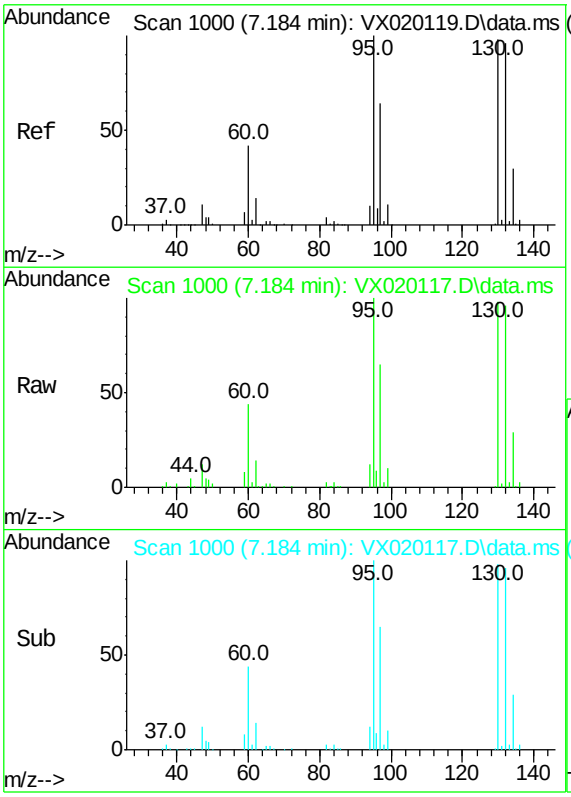


#43
Isopropyl Acetate
Concen: 5.49 ug/l
RT: 6.409 min Scan# 873
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 37564

Ion	Ratio	Lower	Upper
43	100		
61	22.1	18.2	27.4
87	15.1	12.5	18.7

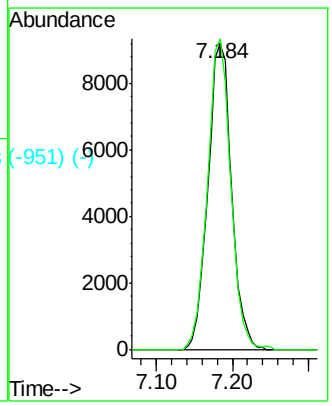




#44
Trichloroethene
Concen: 6.02 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:130 Resp: 19722

Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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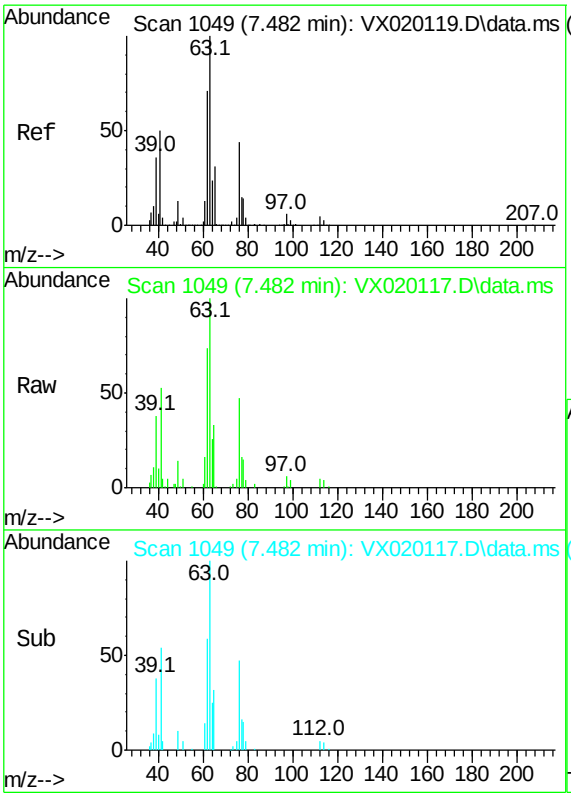
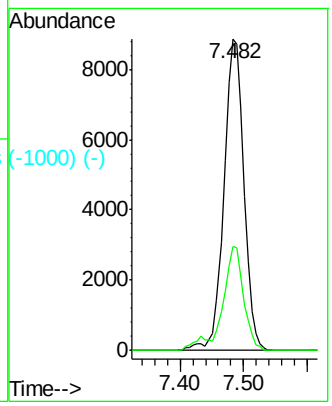
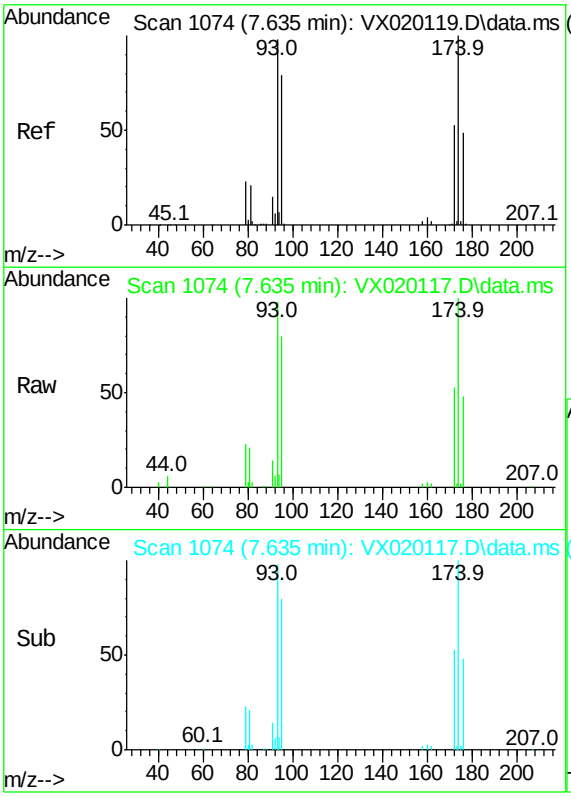


#45
1,2-Dichloropropane
Concen: 6.01 ug/l
RT: 7.482 min Scan# 1049
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 63 Resp: 19110

Ion	Ratio	Lower	Upper
63	100		
65	33.3	25.7	38.5

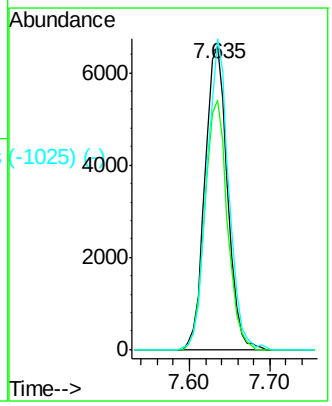




#46
Dibromomethane
Concen: 5.94 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 93 Resp: 12774

Ion	Ratio	Lower	Upper
93	100		
95	82.1	66.8	100.2
174	100.2	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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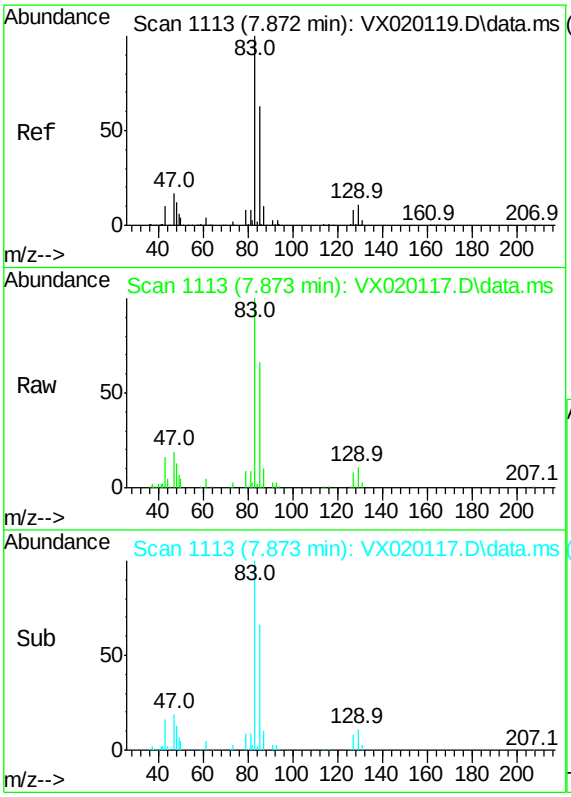
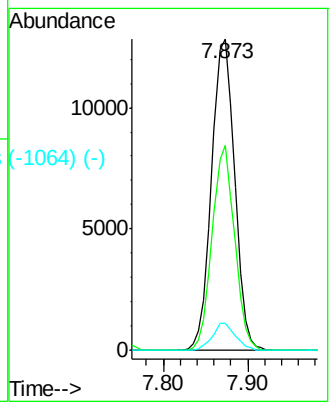
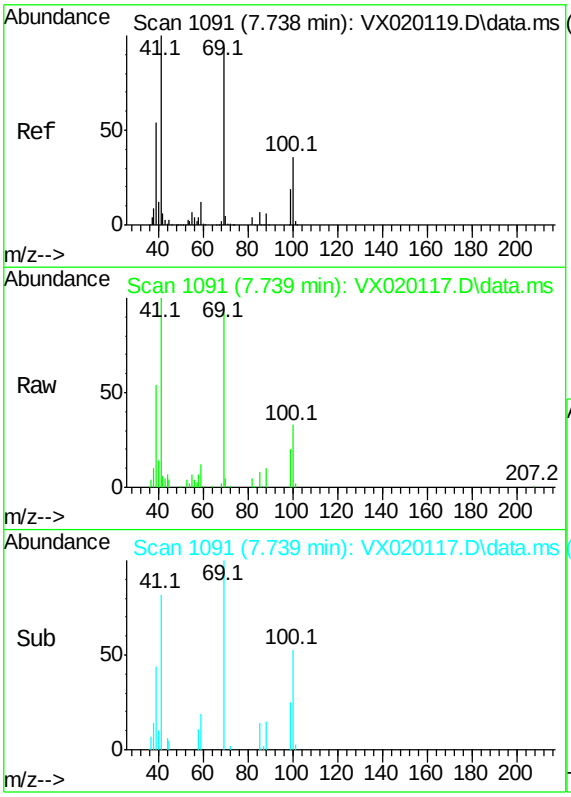


#47
Bromodichloromethane
Concen: 5.54 ug/l
RT: 7.873 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 83 Resp: 23539

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.4	77.0
127	8.4	6.8	10.2

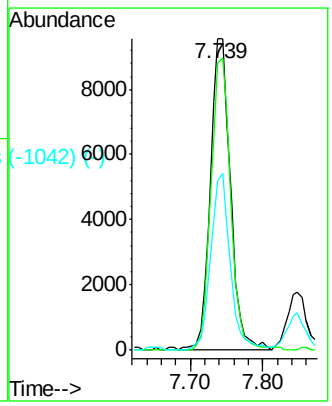




#48
Methyl methacrylate
Concen: 5.37 ug/l
RT: 7.739 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 41 Resp: 18115

Ion	Ratio	Lower	Upper
41	100		
69	92.2	76.0	114.0
39	54.8	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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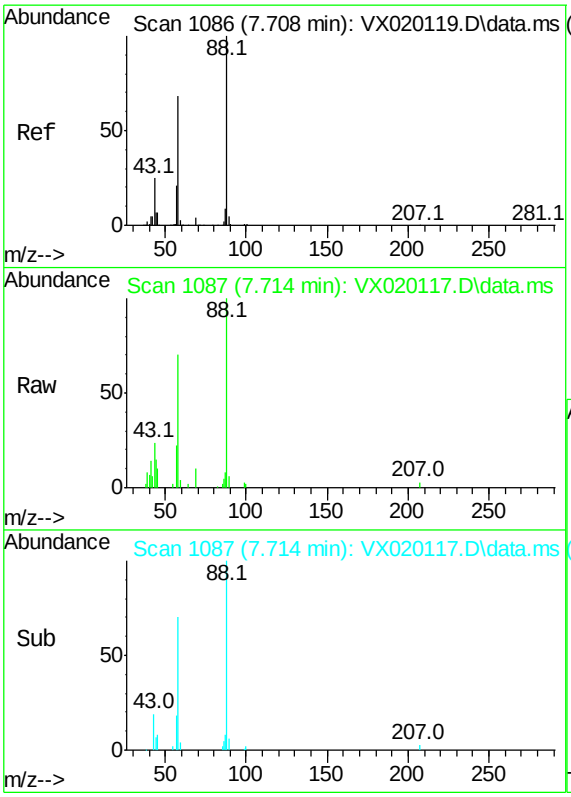
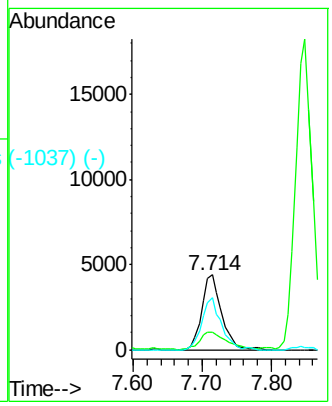
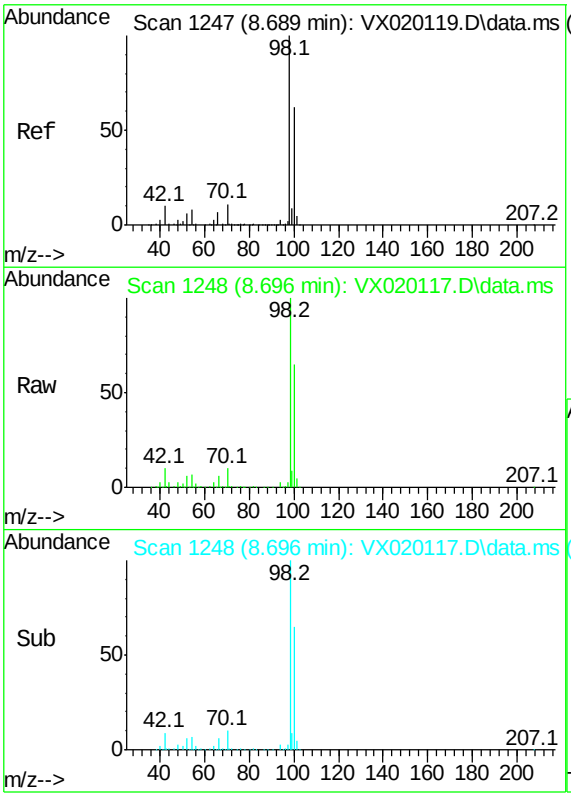


#49
1,4-Dioxane
Concen: 107.12 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 88 Resp: 8659

Ion	Ratio	Lower	Upper
88	100		
43	33.7	23.2	34.8
58	68.5	55.0	82.4

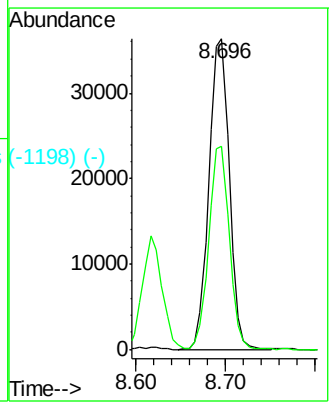




#50
Toluene-d8
Concen: 5.20 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 98 Resp: 57708

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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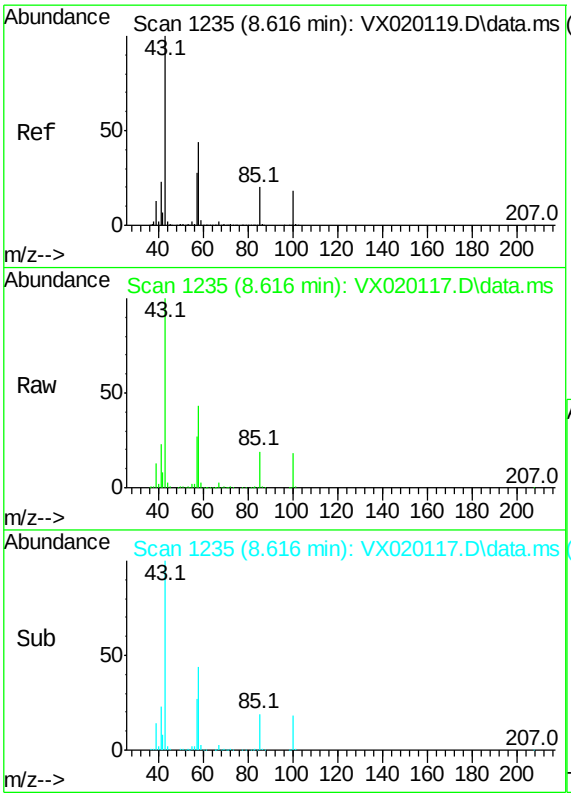
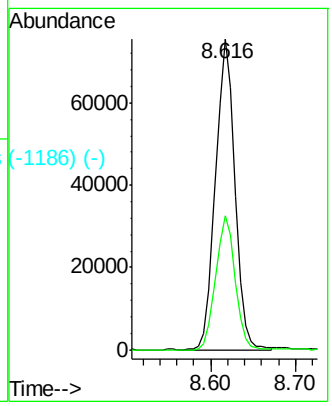
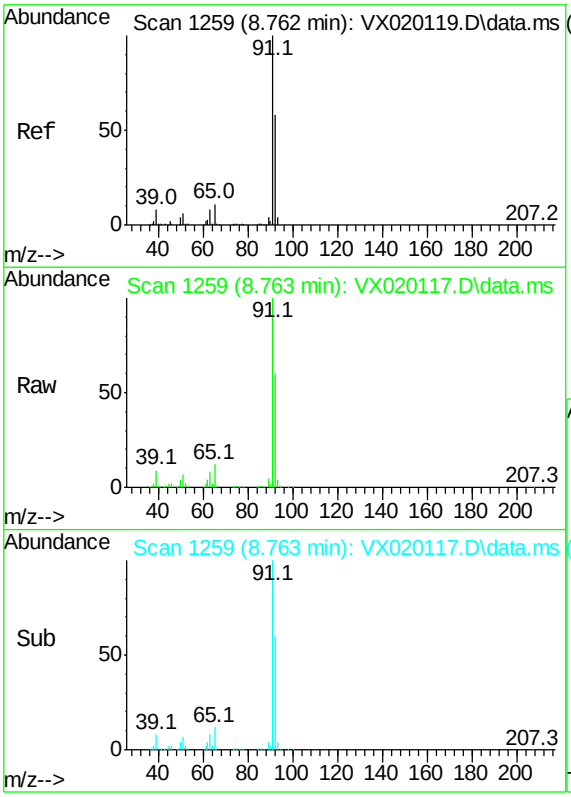


#51
4-Methyl-2-Pentanone
Concen: 27.87 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 116829

Ion	Ratio	Lower	Upper
43	100		
58	43.3	35.4	53.0

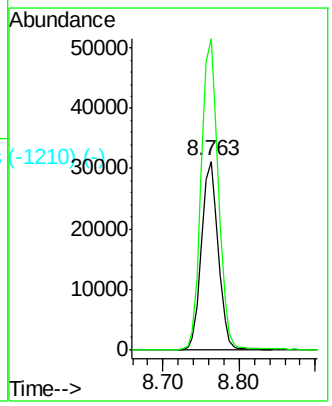




#52
Toluene
Concen: 5.96 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 92 Resp: 46952

Ion	Ratio	Lower	Upper
92	100		
91	169.0	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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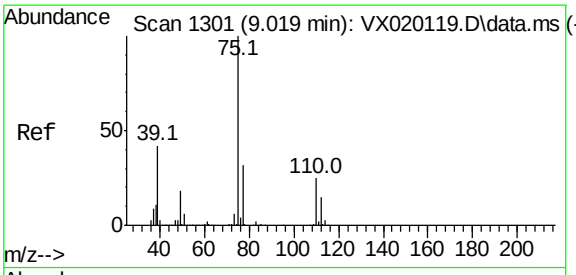
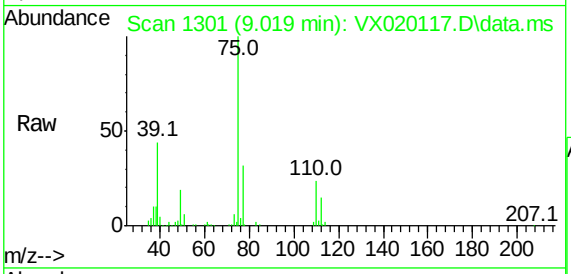
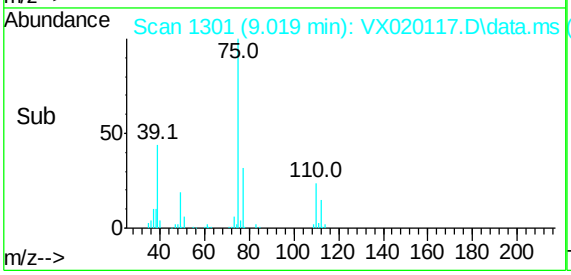


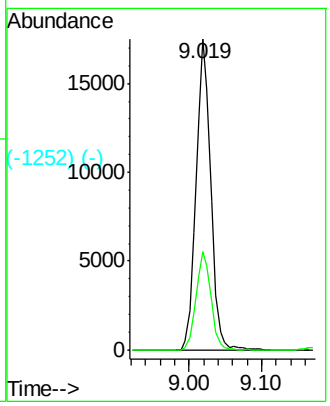
#53
t-1,3-Dichloropropene
Concen: 5.32 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

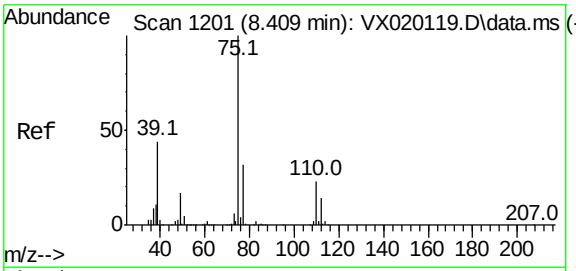
Tgt Ion: 75 Resp: 25017

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3





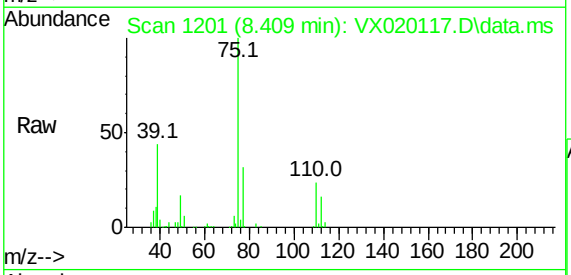


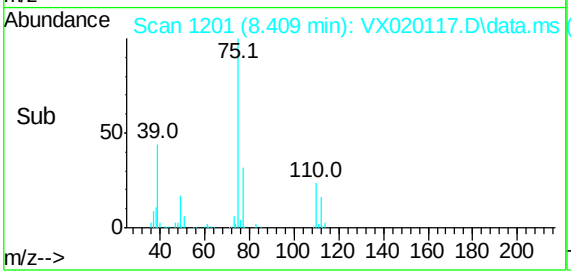


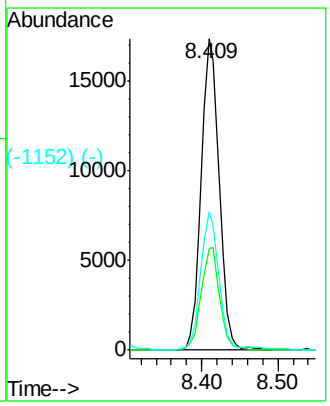
#54
cis-1,3-Dichloropropene
Concen: 5.47 ug/l
RT: 8.409 min Scan# 1201
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 75 Resp: 28028

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.7	38.5
39	44.5	35.1	52.7







Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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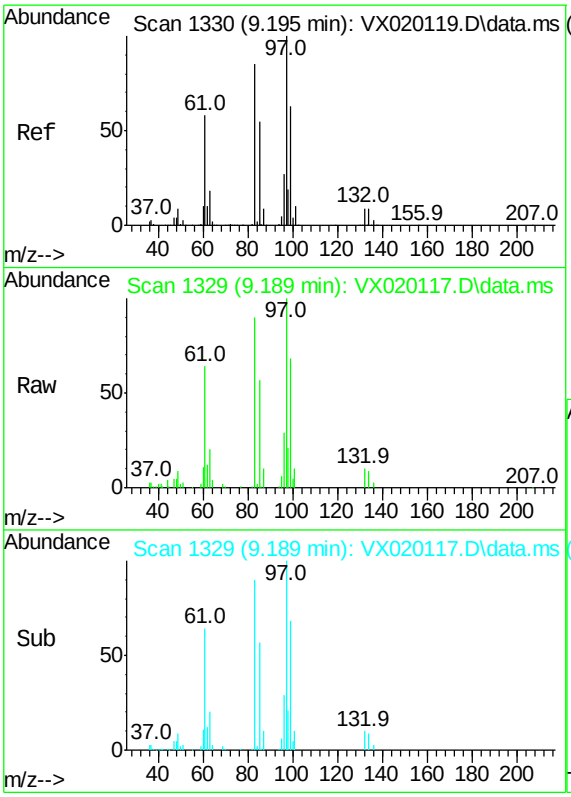
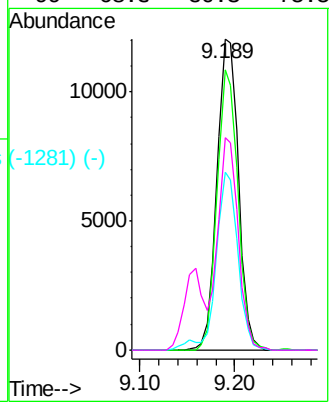
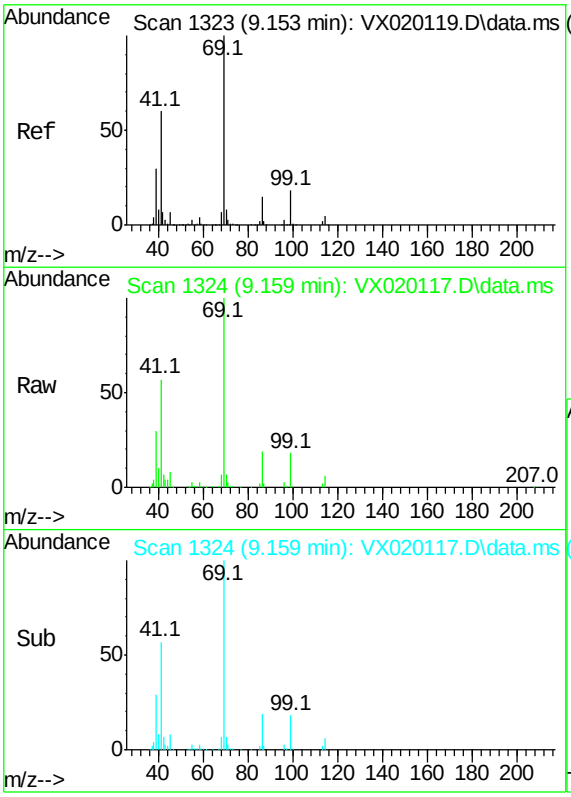


#55
1,1,2-Trichloroethane
Concen: 5.80 ug/l
RT: 9.189 min Scan# 1329
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 97 Resp: 18611

Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.3	103.9
85	57.3	44.3	66.5
99	68.3	50.3	75.5

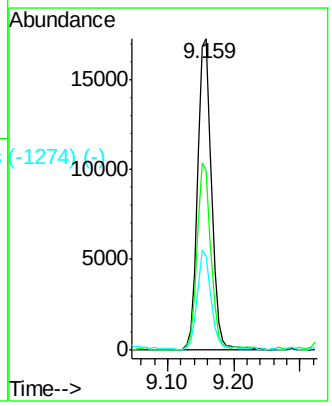




#56
Ethyl methacrylate
Concen: 5.25 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 69 Resp: 25430

Ion	Ratio	Lower	Upper
69	100		
41	60.3	46.8	70.2
39	32.0	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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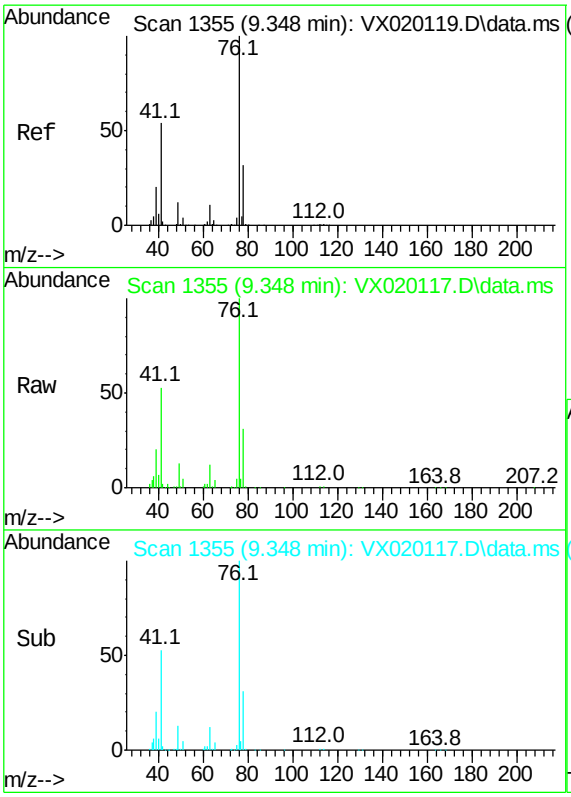
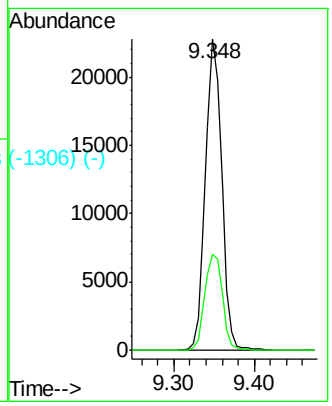
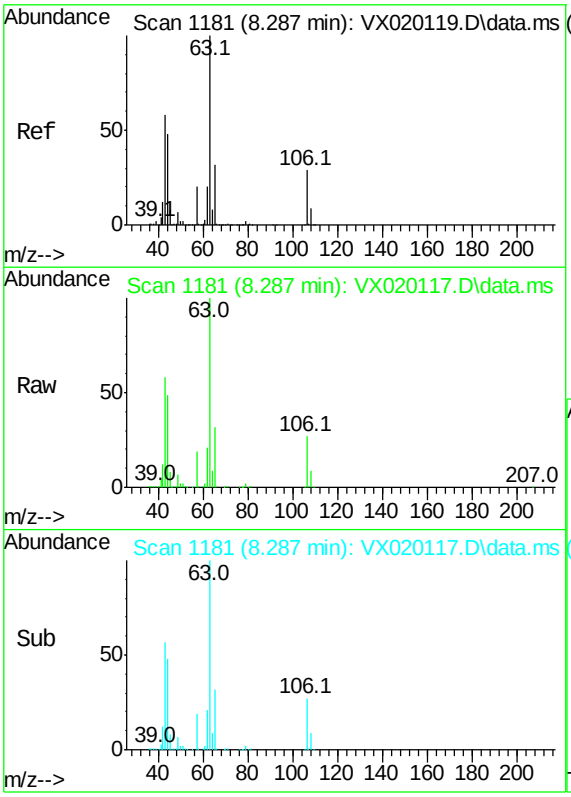


#57
1,3-Dichloropropane
Concen: 5.85 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 76 Resp: 32112

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.2	39.2

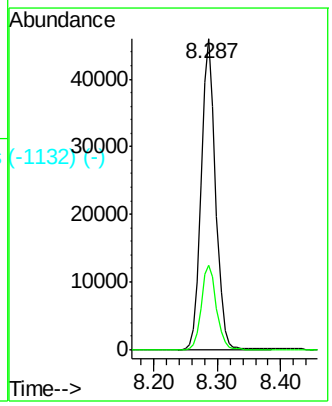




#58
2-Chloroethyl Vinyl ether
Concen: 27.55 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 63 Resp: 70602

Ion	Ratio	Lower	Upper
63	100		
106	27.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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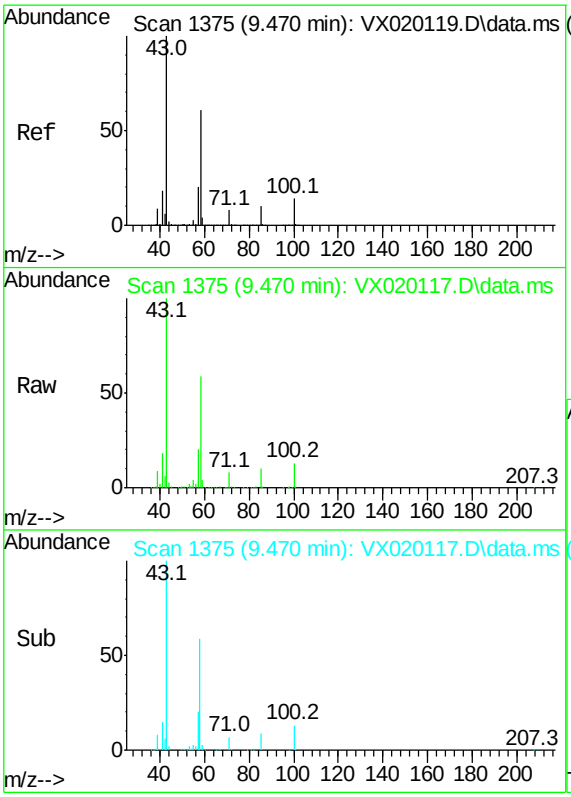
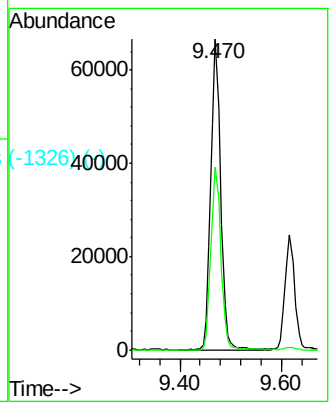
12/21/2020 3:57:53 PM

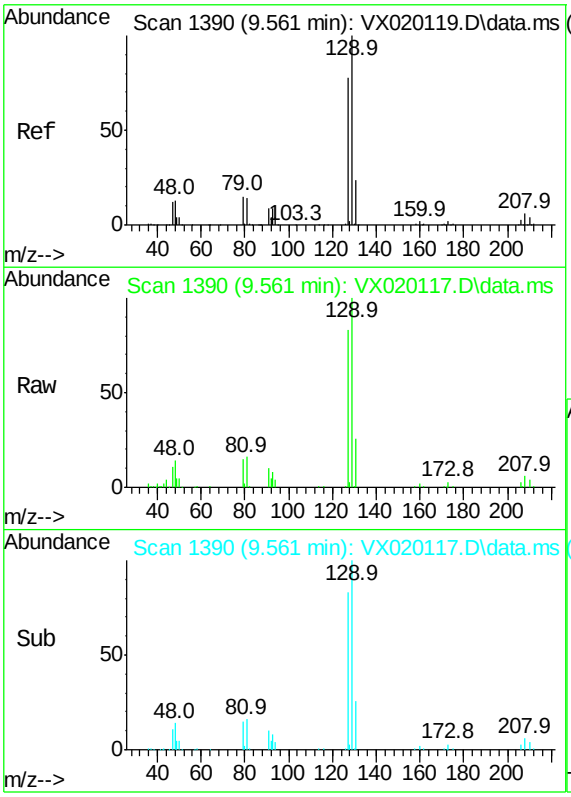


#58
2-Hexanone
Concen: 27.42 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 88660

Ion	Ratio	Lower	Upper
43	100		
58	59.7	30.9	92.8

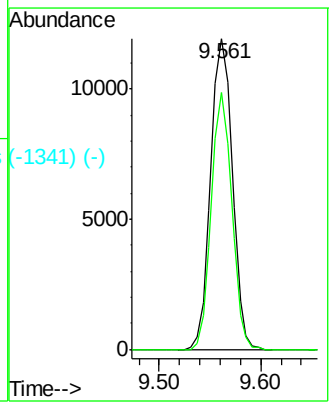




#60
Dibromochloromethane
Concen: 5.42 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:129 Resp: 17577

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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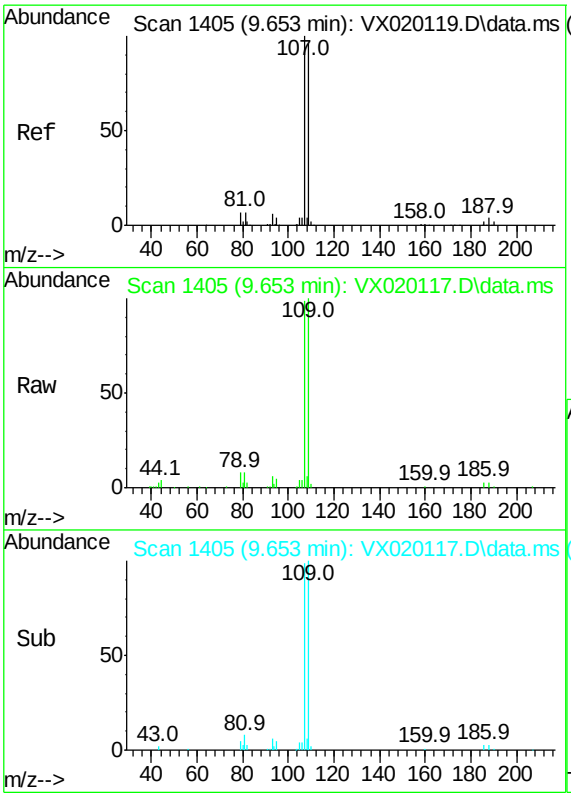
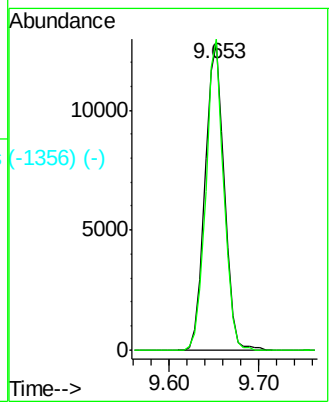
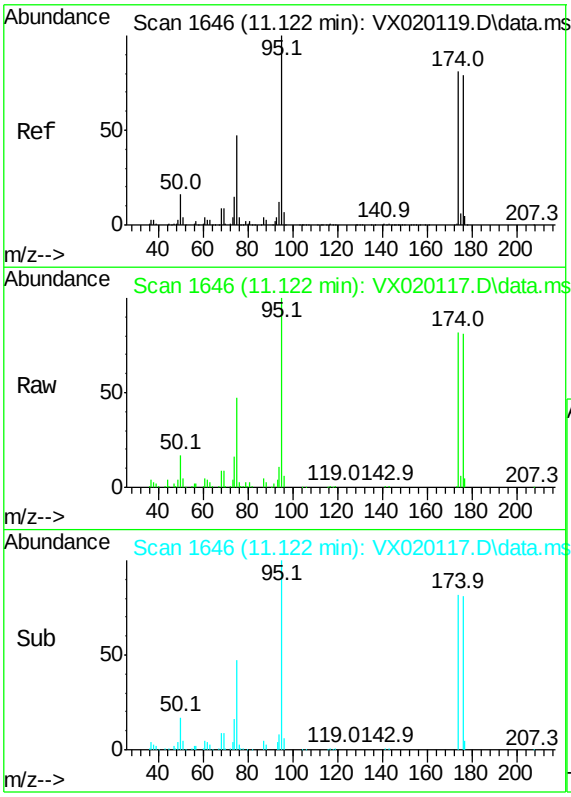


#61
1,2-Dibromoethane
Concen: 5.57 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:107 Resp: 18982

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.8	113.6

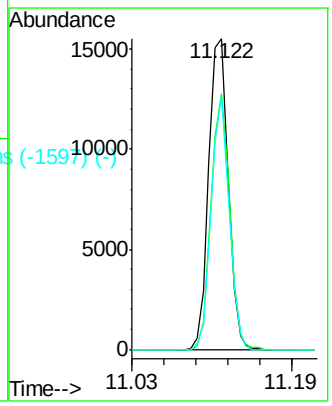




#68
4-Bromofluorobenzene
Concen: 4.87 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 95 Resp: 20611

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	154.6
176	74.4	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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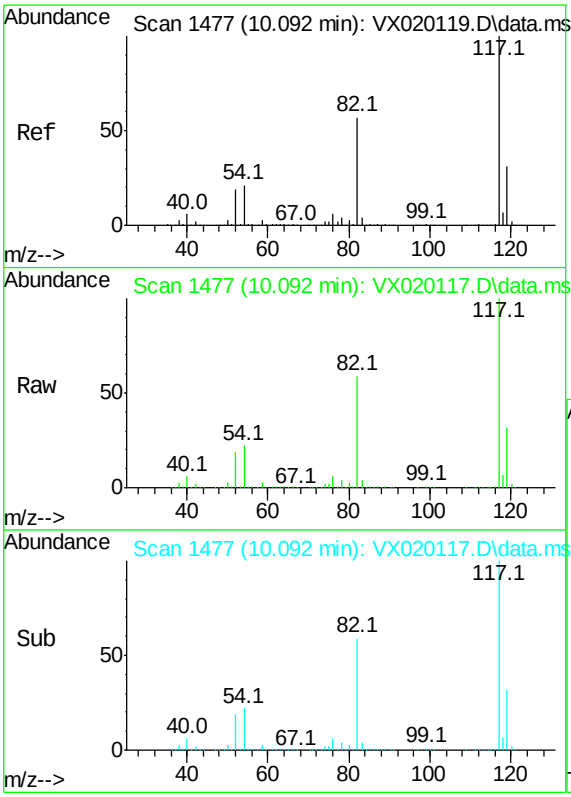
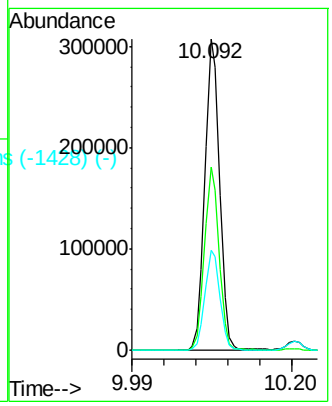
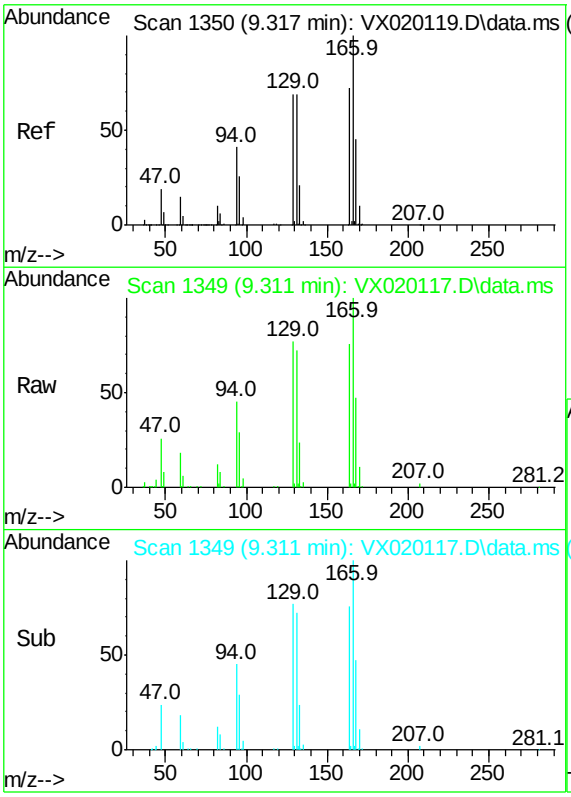


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:117 Resp: 408372

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.4	71.2
119	32.2	26.6	39.8

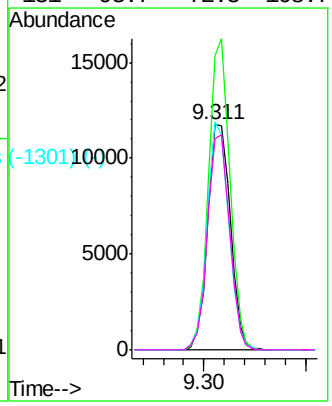




#64
Tetrachloroethene
Concen: 6.62 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:164 Resp: 18091

Ion	Ratio	Lower	Upper
164	100		
166	131.0	103.4	155.2
129	101.0	70.8	106.2
131	93.7	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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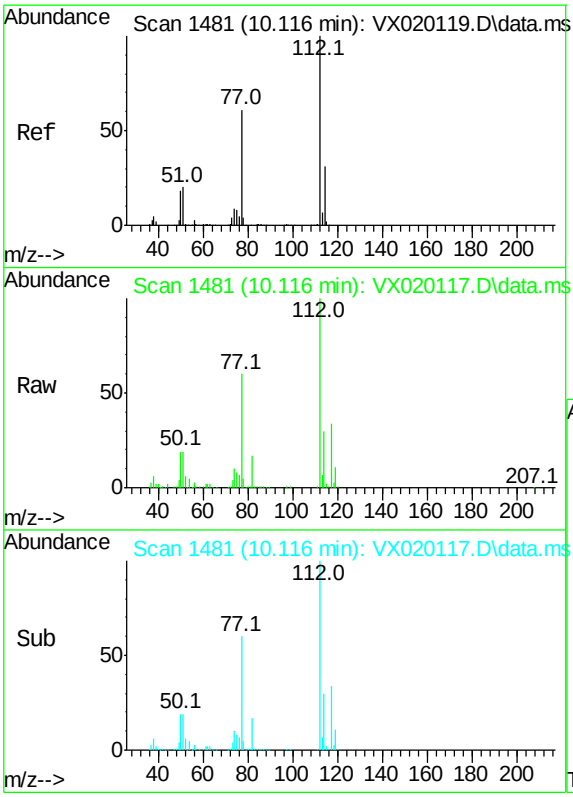
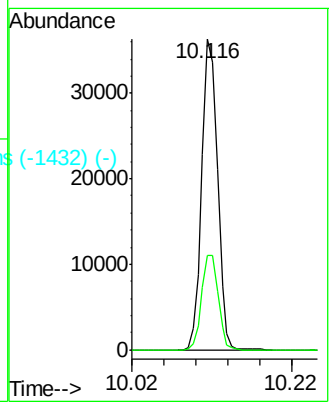
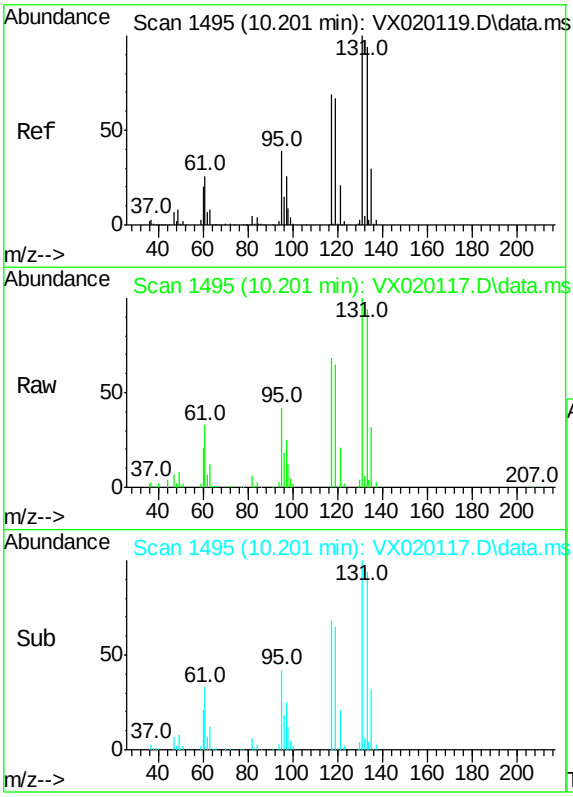


#65
Chlorobenzene
Concen: 6.07 ug/l
RT: 10.116 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:112 Resp: 49665

Ion	Ratio	Lower	Upper
112	100		
114	30.4	25.8	38.6

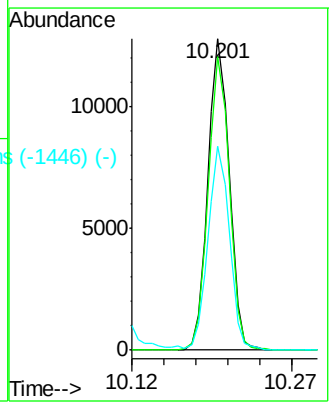




#66
1,1,1,2-Tetrachloroethane
Concen: 5.83 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:131 Resp: 17180

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.7	143.1
119	65.7	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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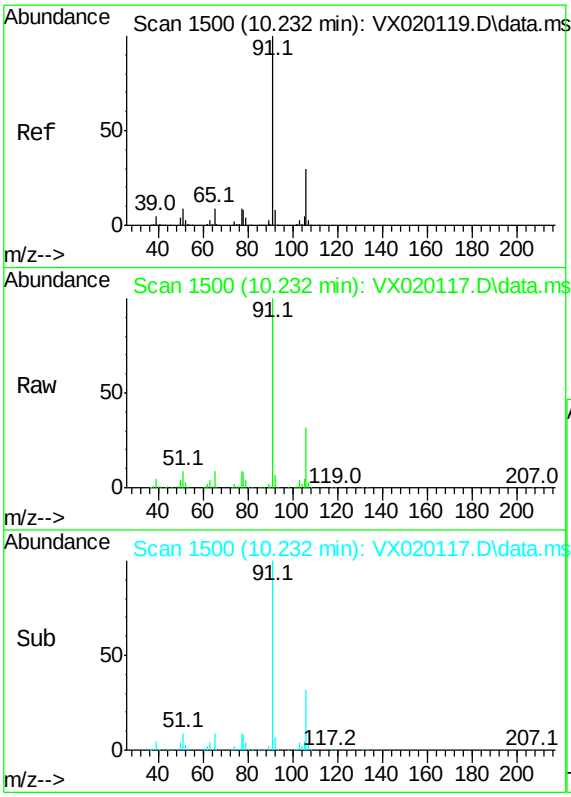
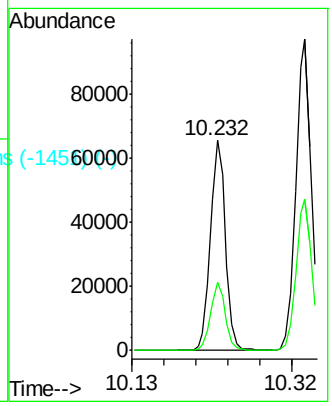
12/21/2020 3:57:53 PM

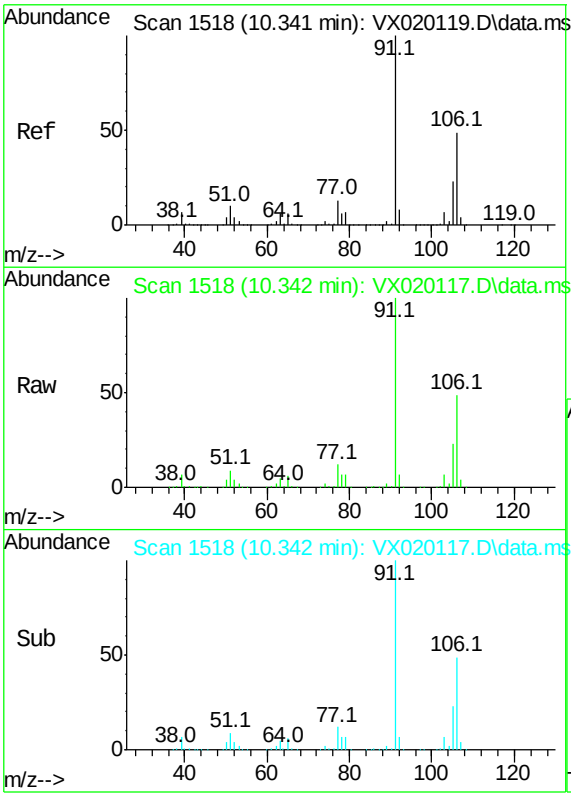


#67
Ethyl Benzene
Concen: 5.83 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 91 Resp: 84243

Ion	Ratio	Lower	Upper
91	100		
106	32.3	24.6	37.0

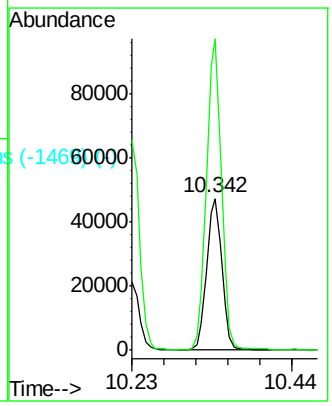




#68
m/p-Xylenes
Concen: 11.76 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:106 Resp: 64053

Ion	Ratio	Lower	Upper
106	100		
91	203.4	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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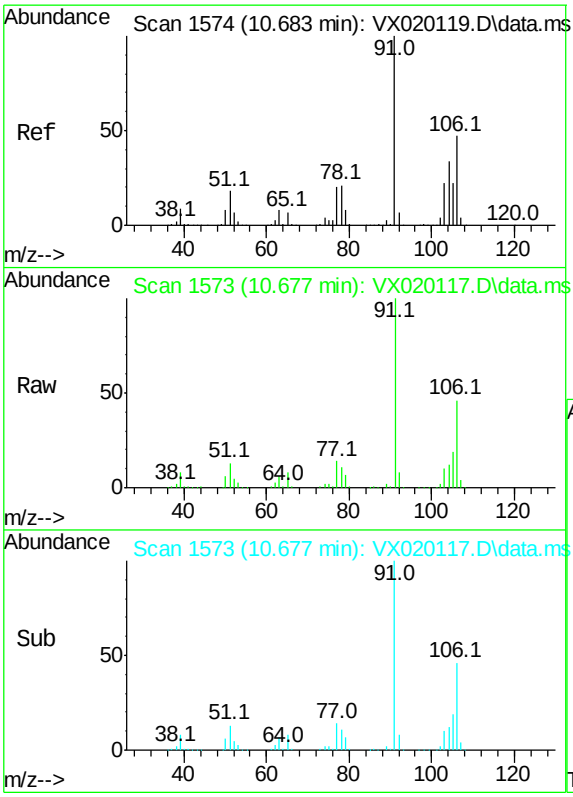
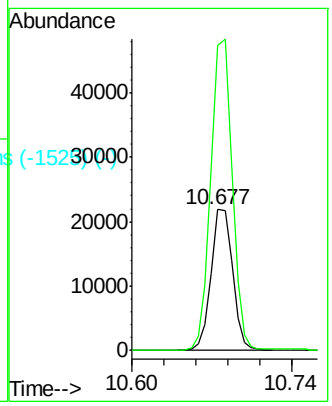
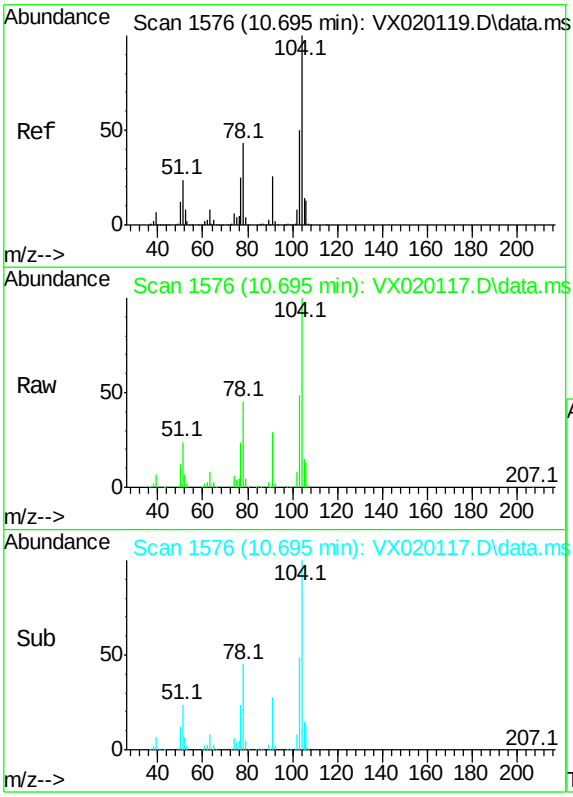


#69
o-Xylene
Concen: 5.64 ug/l
RT: 10.677 min Scan# 1573
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:106 Resp: 29648

Ion	Ratio	Lower	Upper
106	100		
91	222.2	108.1	324.2

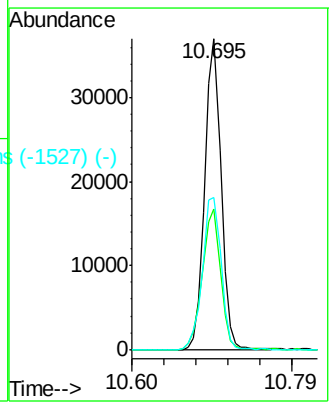




#70
Styrene
Concen: 5.35 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:104 Resp: 47532

Ion	Ratio	Lower	Upper
104	100		
78	51.1	40.0	60.0
103	56.1	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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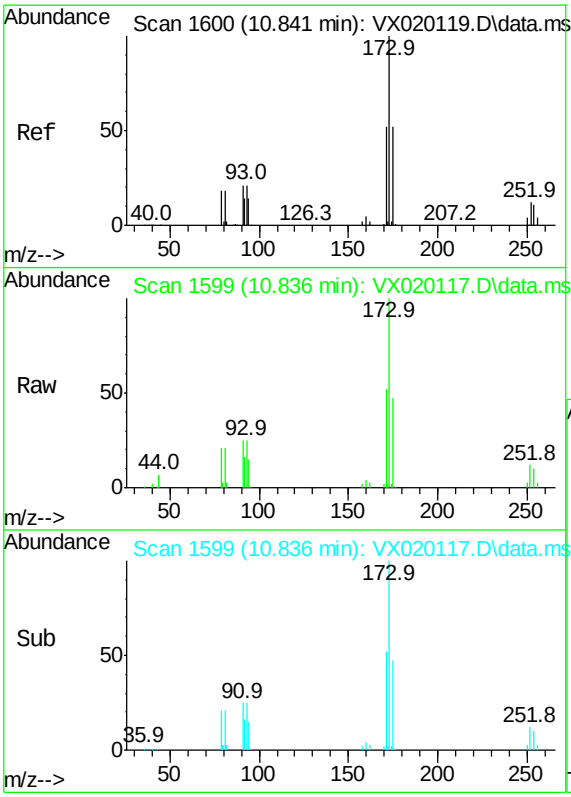
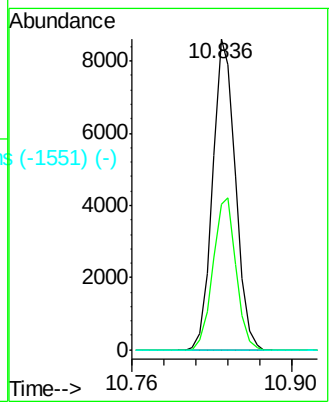
12/21/2020 3:57:53 PM

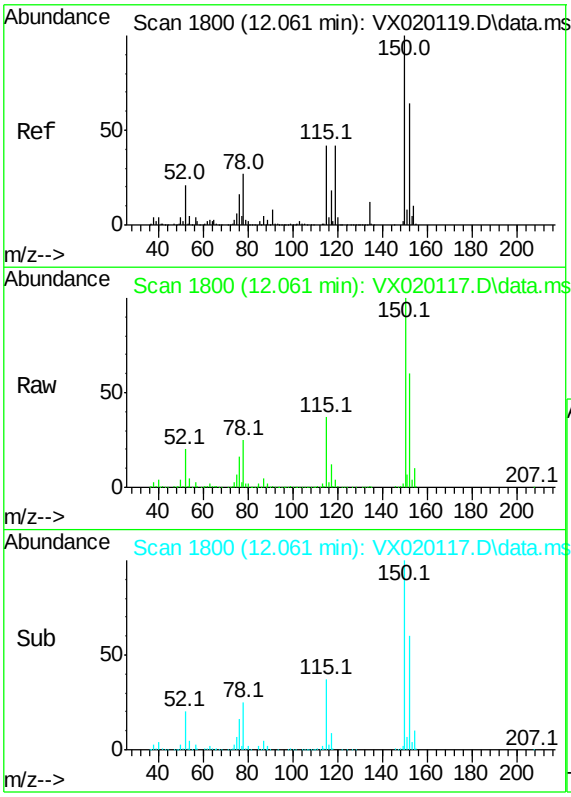


#71
Bromoform
Concen: 5.09 ug/l
RT: 10.836 min Scan# 1599
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:173 Resp: 11705

Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.9	71.8
254	0.0	0.1	0.1#

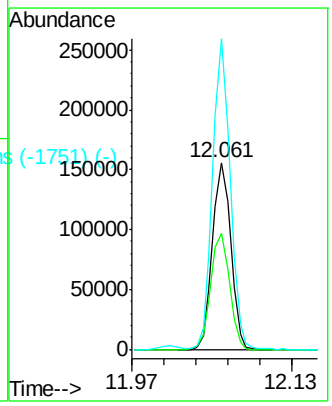




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:152 Resp: 194543

Ion	Ratio	Lower	Upper
152	100		
115	63.7	41.1	123.3
150	158.9	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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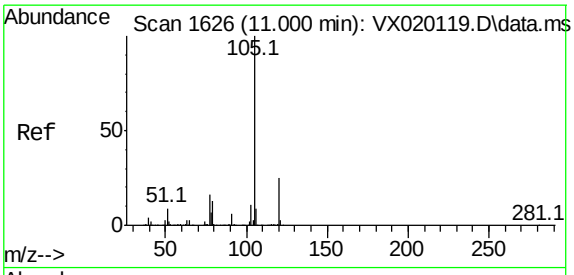
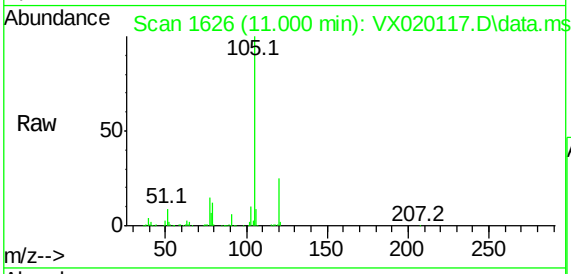
12/21/2020 3:57:53 PM

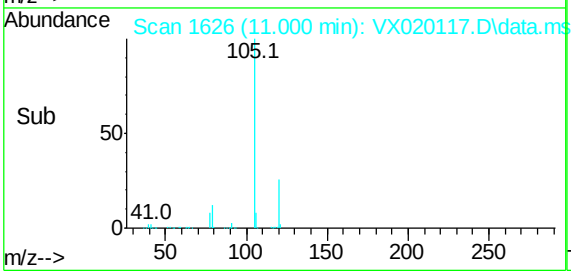


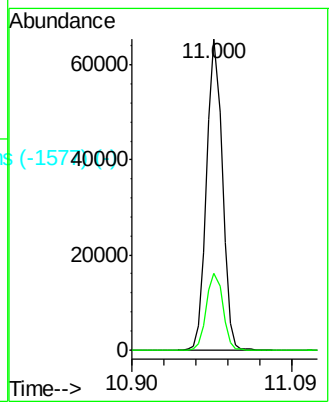
#73
Isopropylbenzene
Concen: 6.06 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

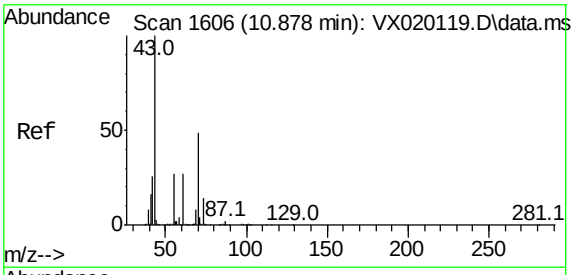
Tgt Ion:105 Resp: 80711

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.6





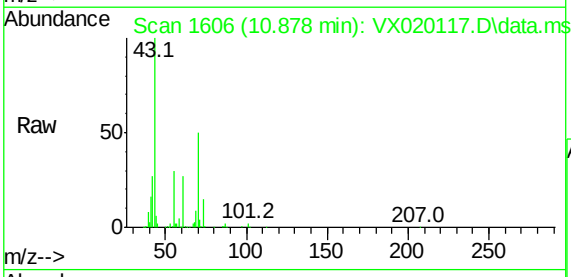


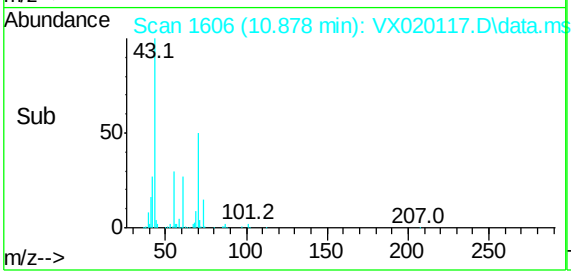


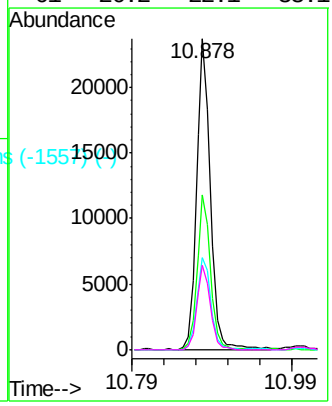
#74
N-amyl acetate
Concen: 5.25 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 43 Resp: 28436

Ion	Ratio	Lower	Upper
43	100		
70	48.3	39.0	58.6
55	30.1	21.5	32.3
61	26.2	22.1	33.1







Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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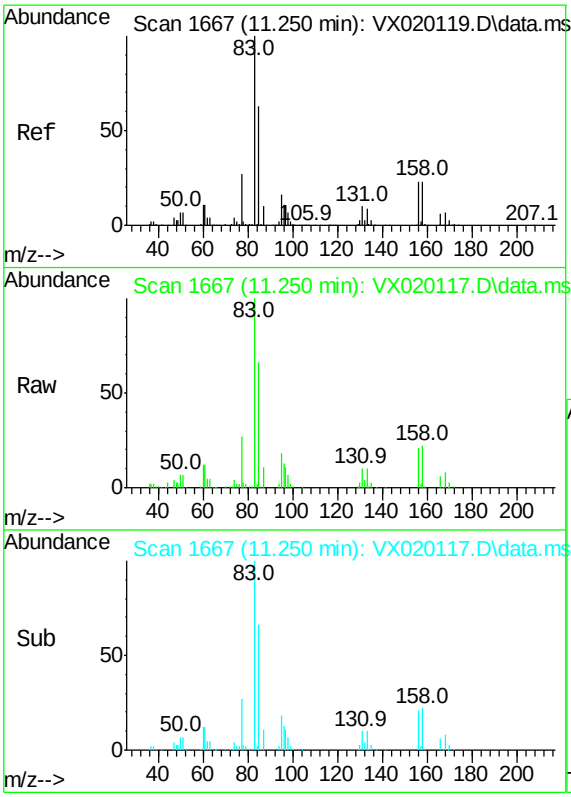
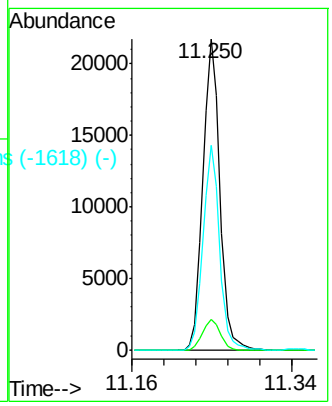
12/21/2020 3:57:53 PM

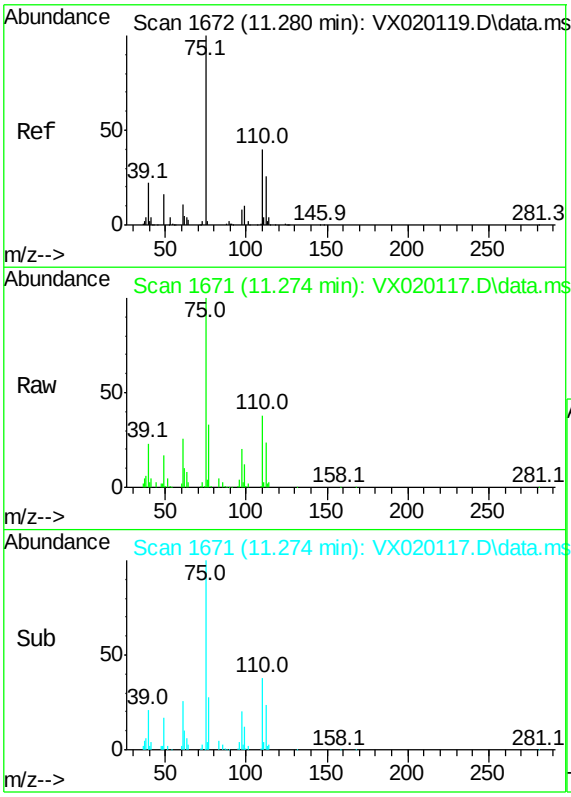


#75
1,1,2,2-Tetrachloroethane
Concen: 6.04 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 83 Resp: 28709

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.2
85	64.0	31.8	95.4

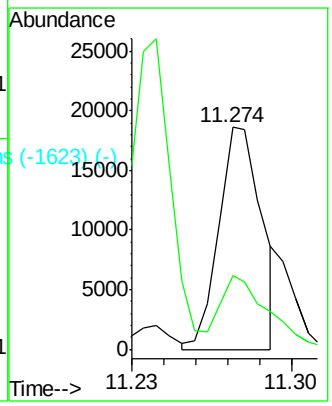




#76
1,2,3-Trichloropropane
Concen: 6.11 ug/l m
RT: 11.274 min Scan# 1671
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 75 Resp: 27035

Ion	Ratio	Lower	Upper
75	100		
77	36.7	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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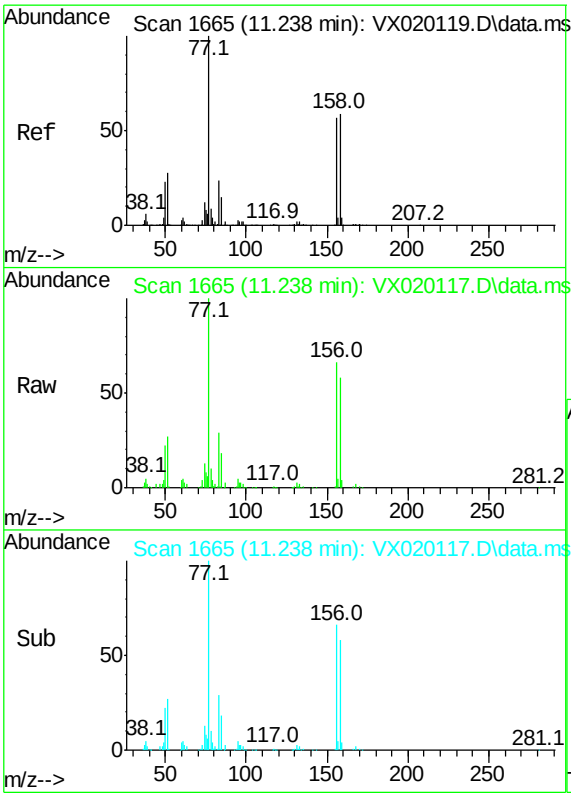
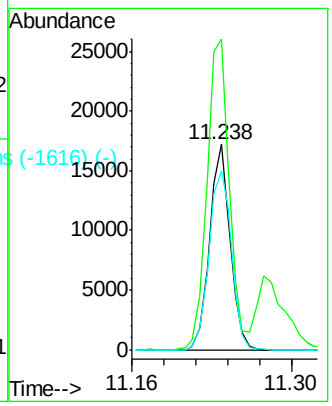
12/21/2020 3:57:53 PM

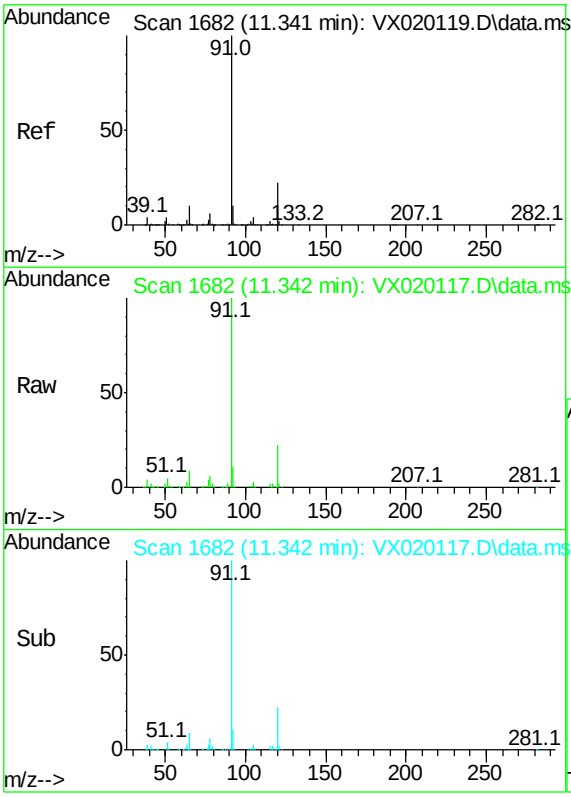


#77
Bromobenzene
Concen: 6.12 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:156 Resp: 21014

Ion	Ratio	Lower	Upper
156	100		
77	165.8	82.8	248.6
158	95.9	49.1	147.4

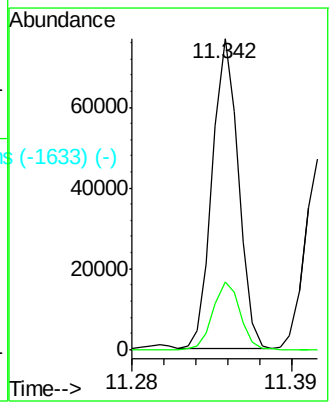




#78
n-propylbenzene
Concen: 6.02 ug/l
RT: 11.342 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 91 Resp: 91470

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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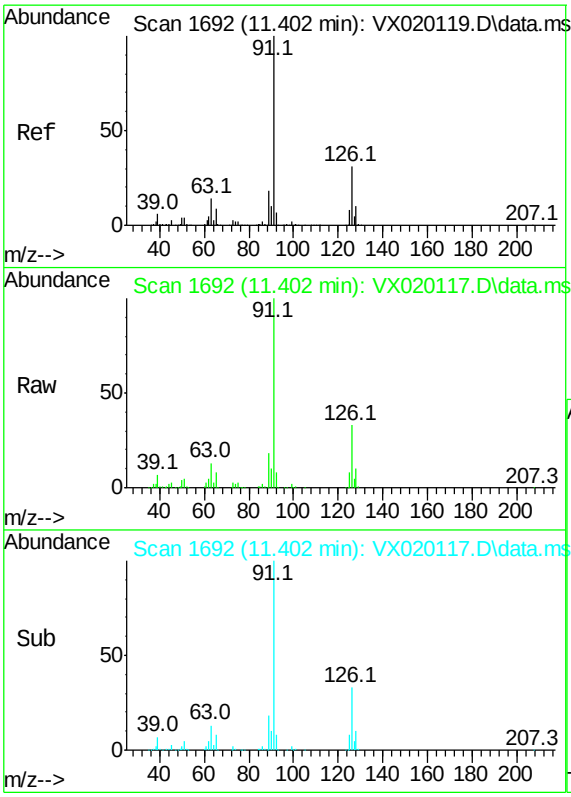
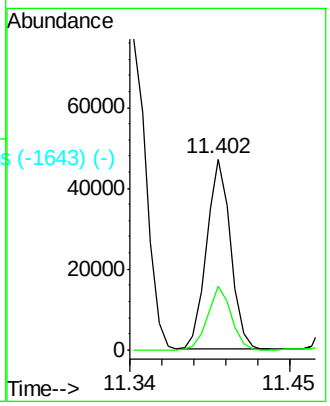
12/21/2020 3:57:53 PM

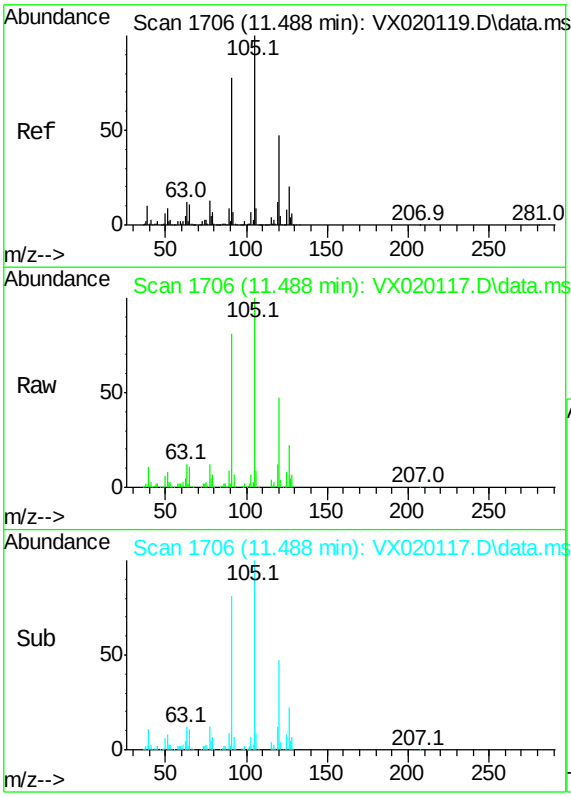


#70
2-Chlorotoluene
Concen: 6.02 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 91 Resp: 56824

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.6	49.8

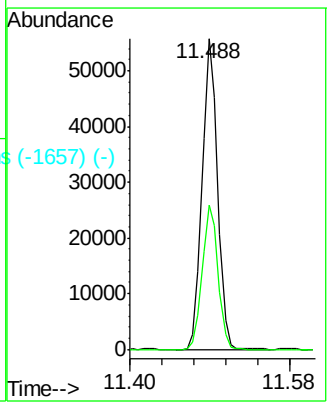




#89
1,3,5-Trimethylbenzene
Concen: 5.95 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:105 Resp: 66919

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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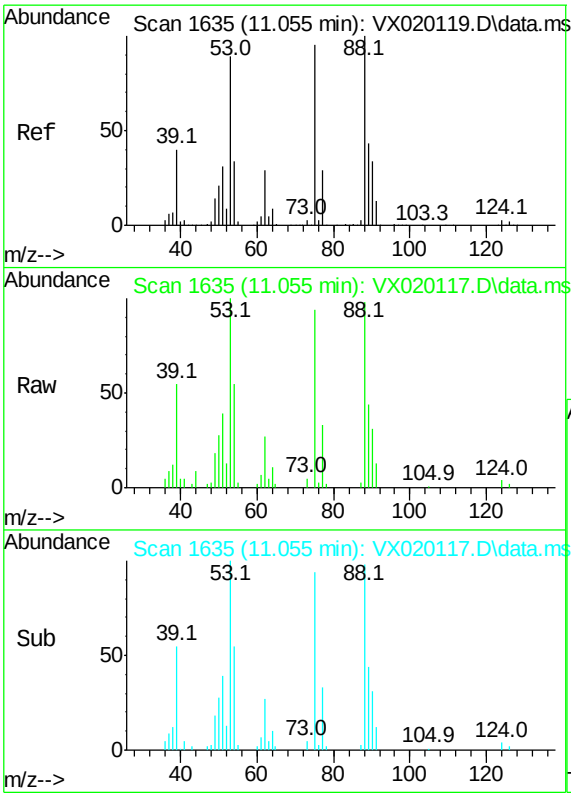
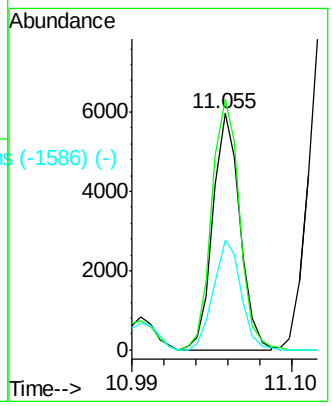
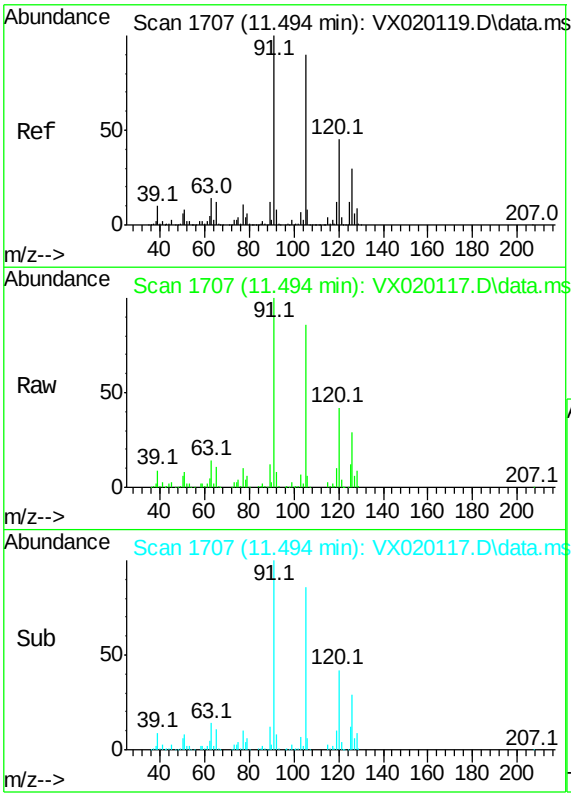


#81
trans-1,4-Dichloro-2-butene
Concen: 4.80 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 75 Resp: 7336

Ion	Ratio	Lower	Upper
75	100		
53	109.3	74.5	111.7
89	47.3	37.9	56.9

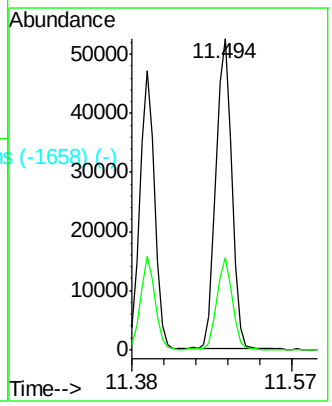




#88
4-Chlorotoluene
Concen: 5.99 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 91 Resp: 66245

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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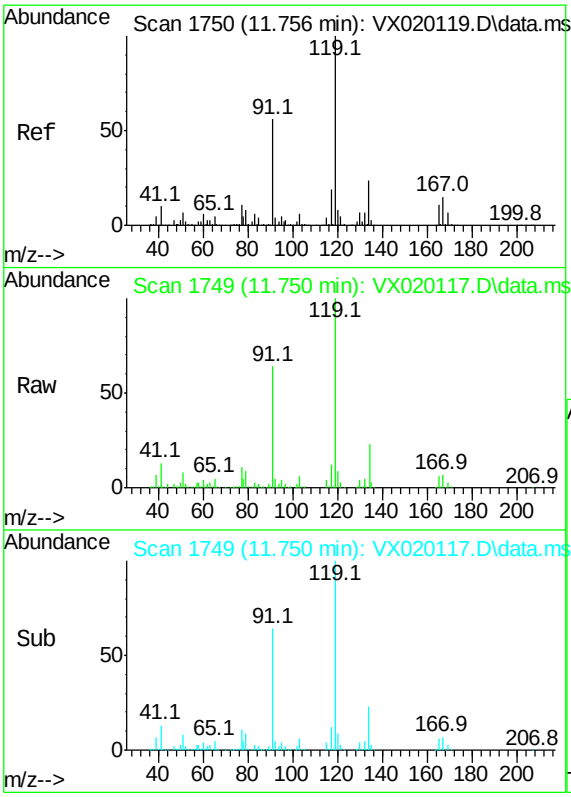
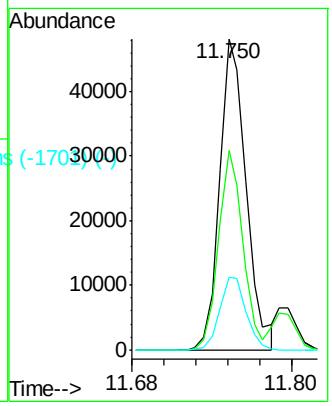
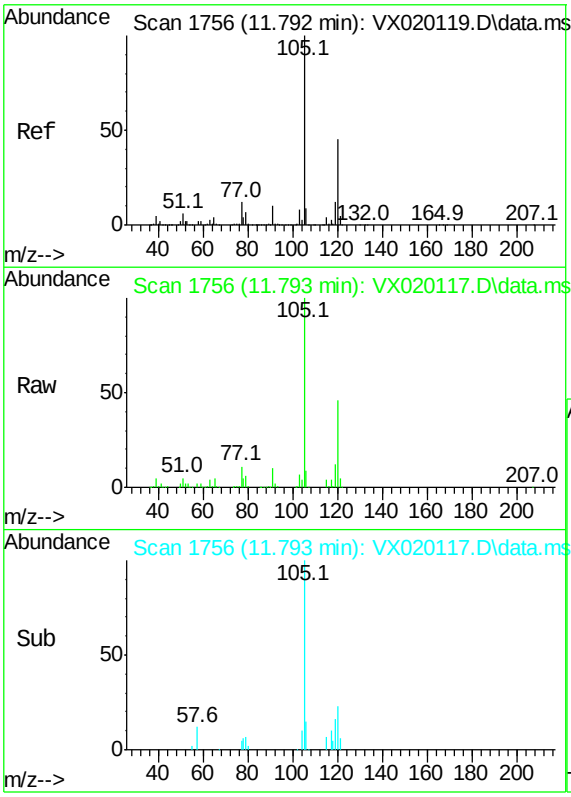


#83
tert-Butylbenzene
Concen: 5.81 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:119 Resp: 63631

Ion	Ratio	Lower	Upper
119	100		
91	59.7	27.9	83.7
134	23.3	11.3	33.9

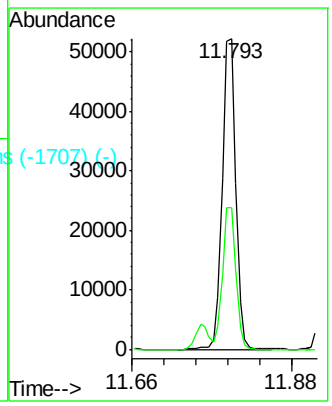




#84
1,2,4-Trimethylbenzene
Concen: 5.87 ug/l
RT: 11.793 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:105 Resp: 66866

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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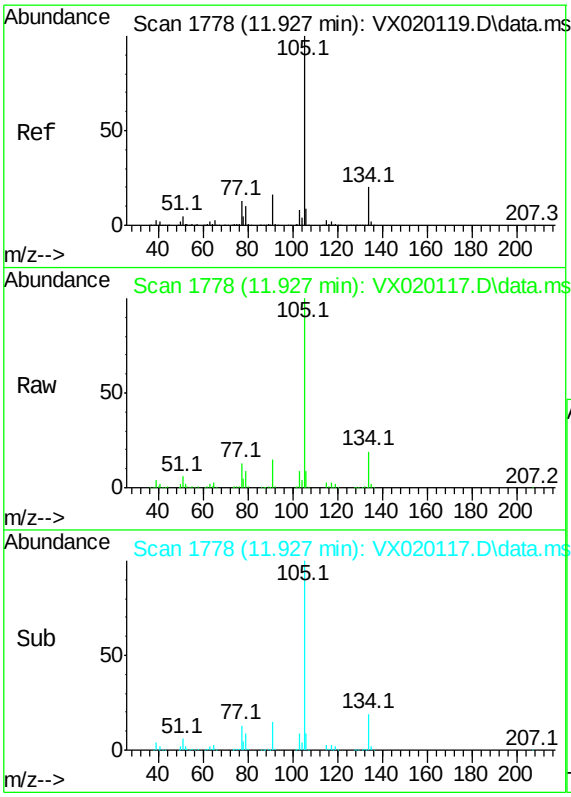
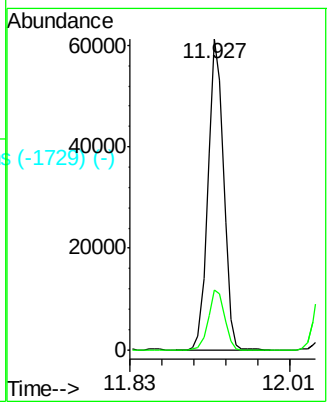
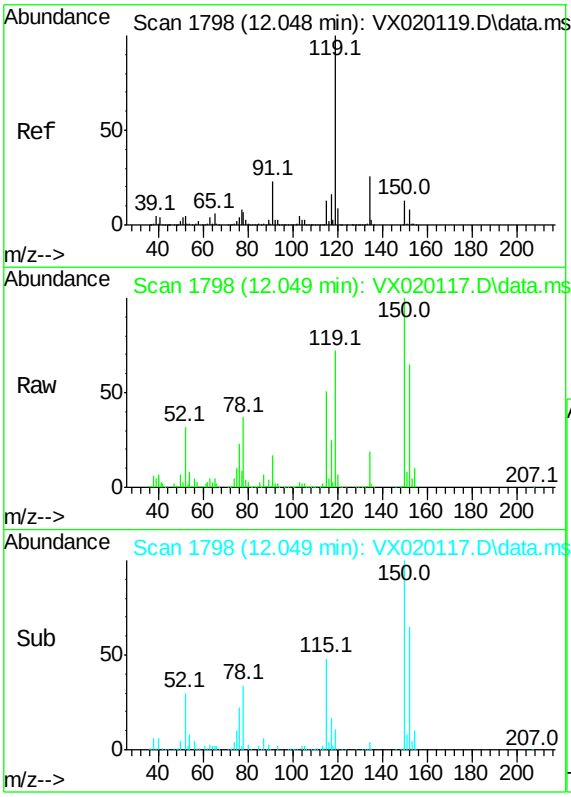


#85
sec-Butylbenzene
Concen: 5.96 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:105 Resp: 74197

Ion	Ratio	Lower	Upper
105	100		
134	19.8	10.0	29.8

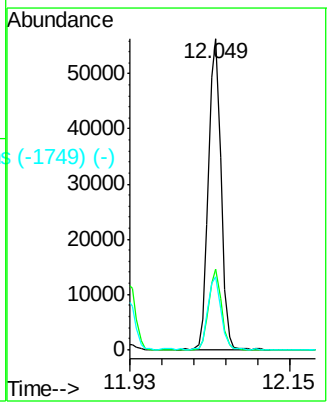




#86
p-Isopropyltoluene
Concen: 5.87 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:119 Resp: 67261

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	24.3	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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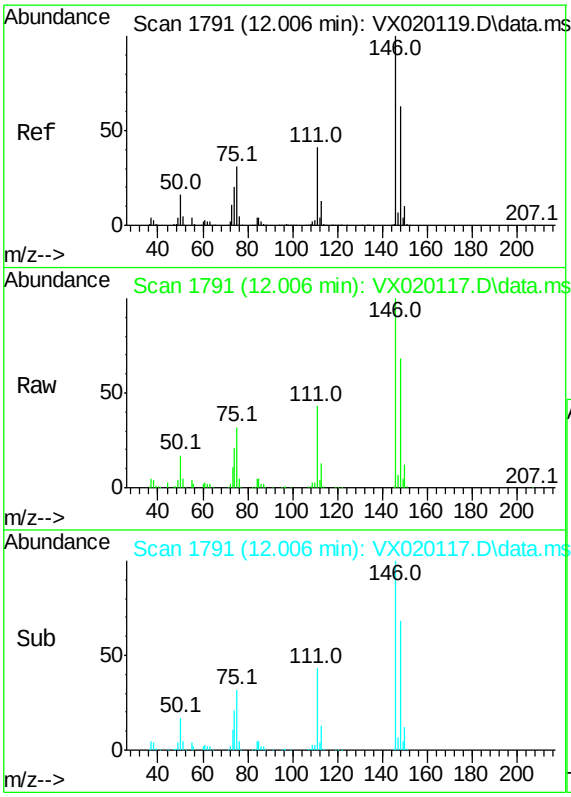
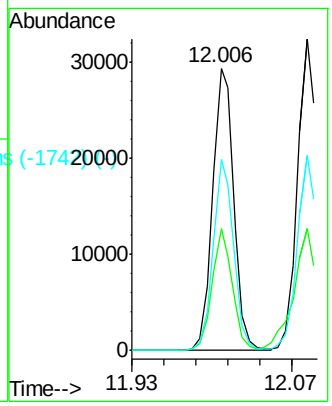
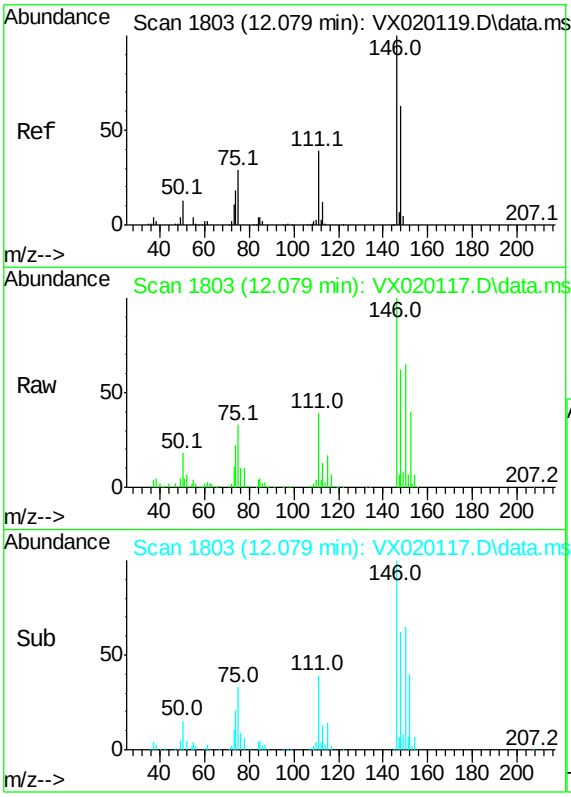


#87
1,3-Dichlorobenzene
Concen: 5.84 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:146 Resp: 36650

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.2	60.5
148	65.3	31.9	95.7

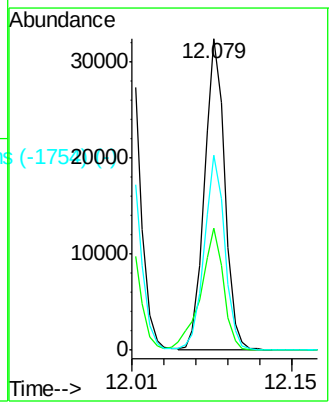




#88
1,4-Dichlorobenzene
Concen: 6.05 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:146 Resp: 38742

Ion	Ratio	Lower	Upper
146	100		
111	43.9	19.6	58.8
148	63.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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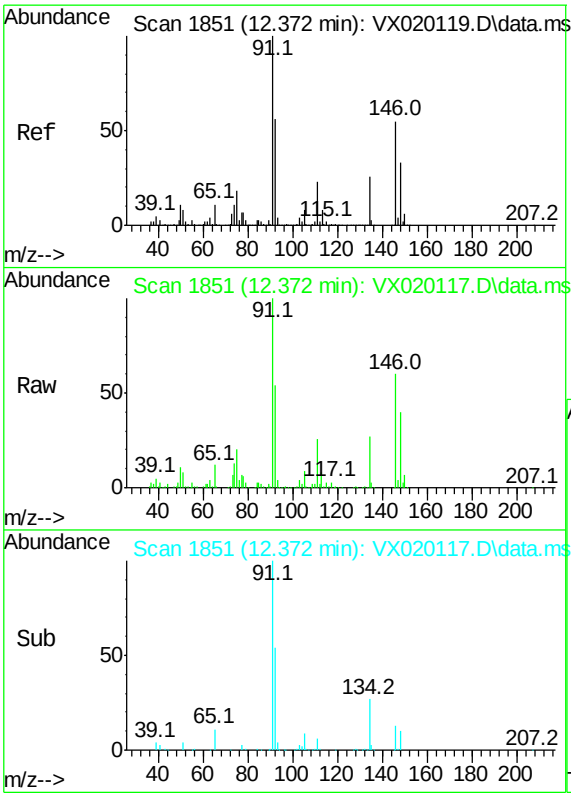
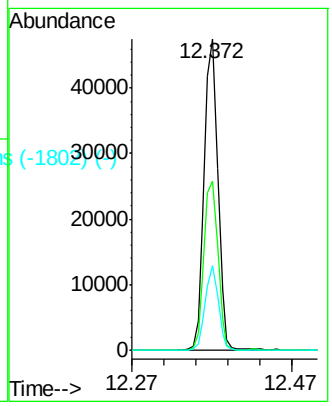
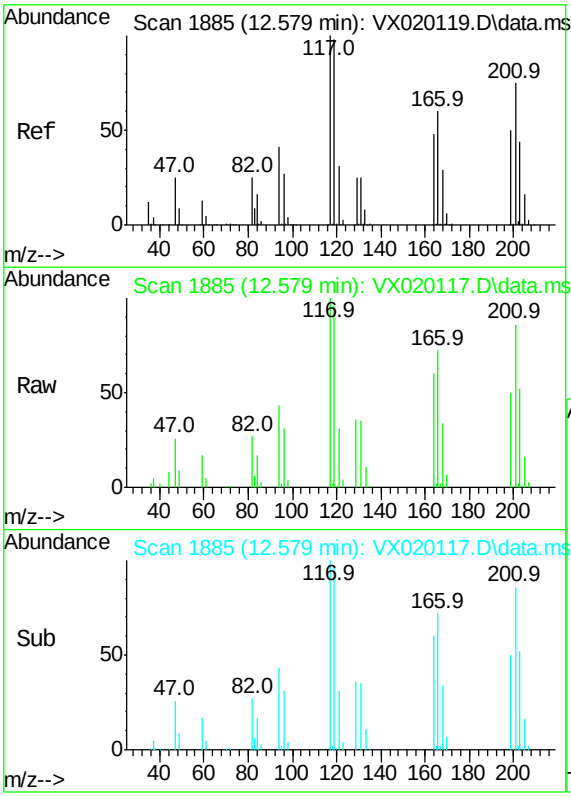


#89
n-Butylbenzene
Concen: 5.53 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 91 Resp: 55898

Ion	Ratio	Lower	Upper
91	100		
92	55.5	27.4	82.0
134	25.5	13.2	39.5

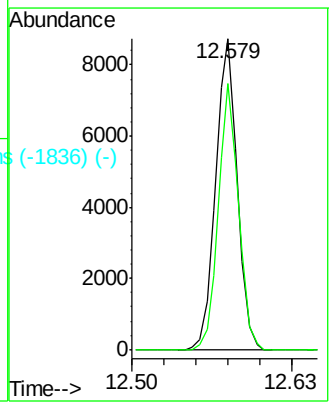




#90
Hexachloroethane
Concen: 5.66 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

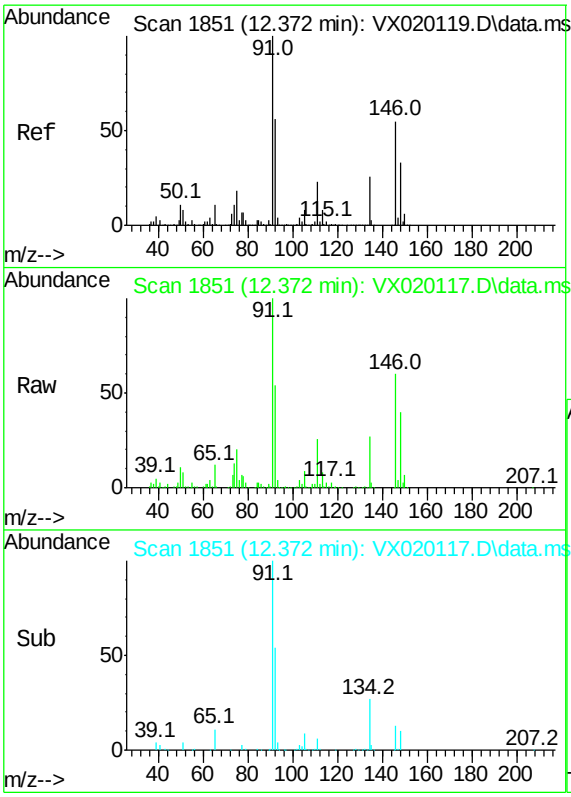
Tgt Ion:117 Resp: 11191

Ion	Ratio	Lower	Upper
117	100		
201	80.0	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

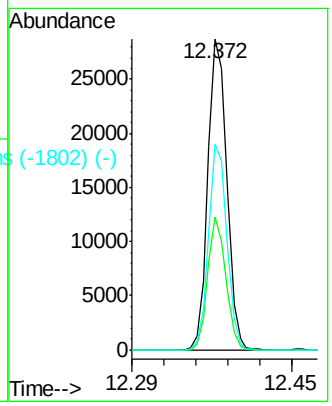
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:53 PM

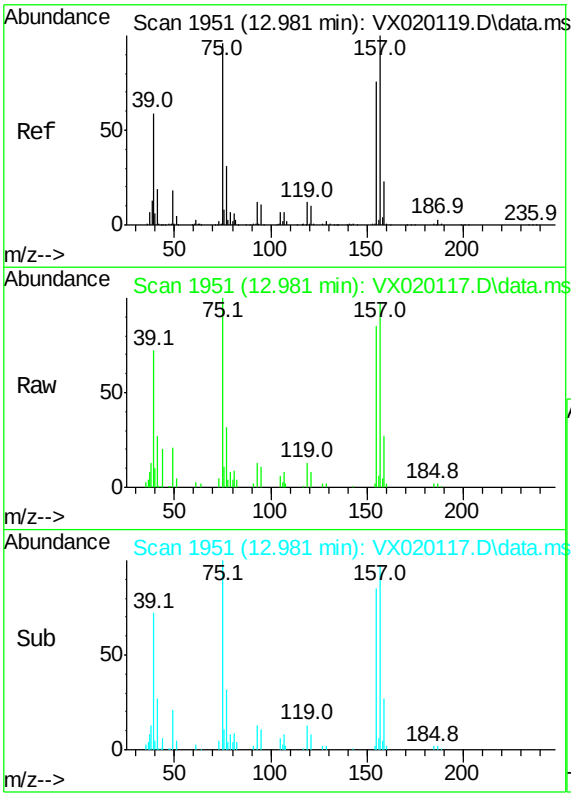


#91
1,2-Dichlorobenzene
Concen: 6.03 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:146 Resp: 36975

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.8	62.2
148	64.1	31.9	95.5

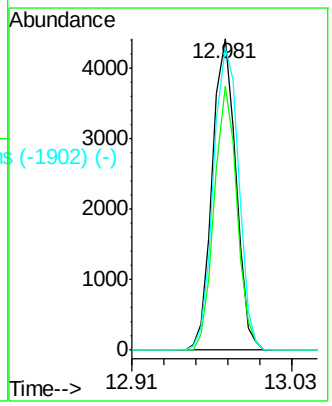




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.40 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion: 75 Resp: 5532

Ion	Ratio	Lower	Upper
75	100		
155	81.3	45.3	135.9
157	104.1	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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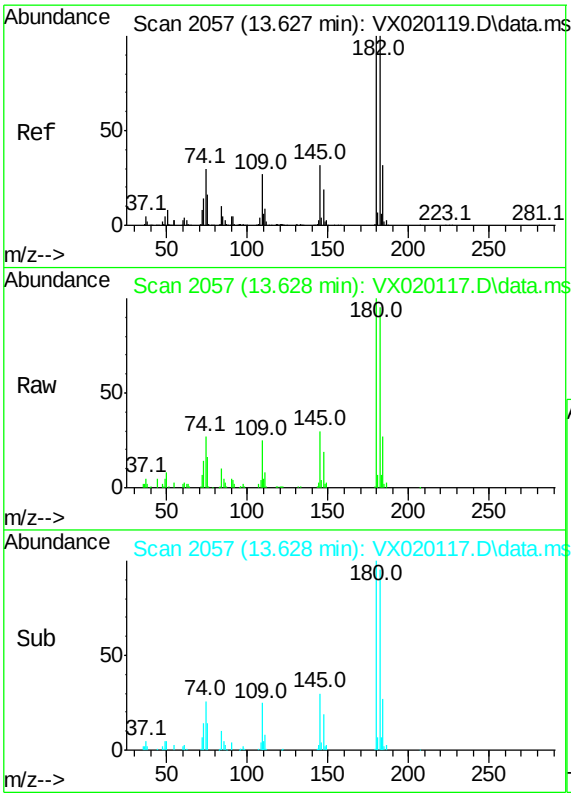
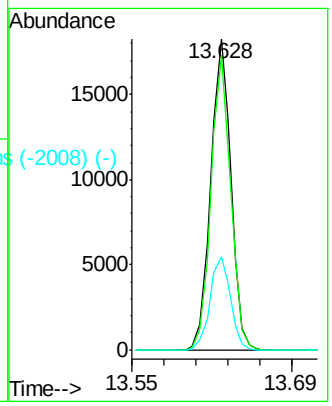
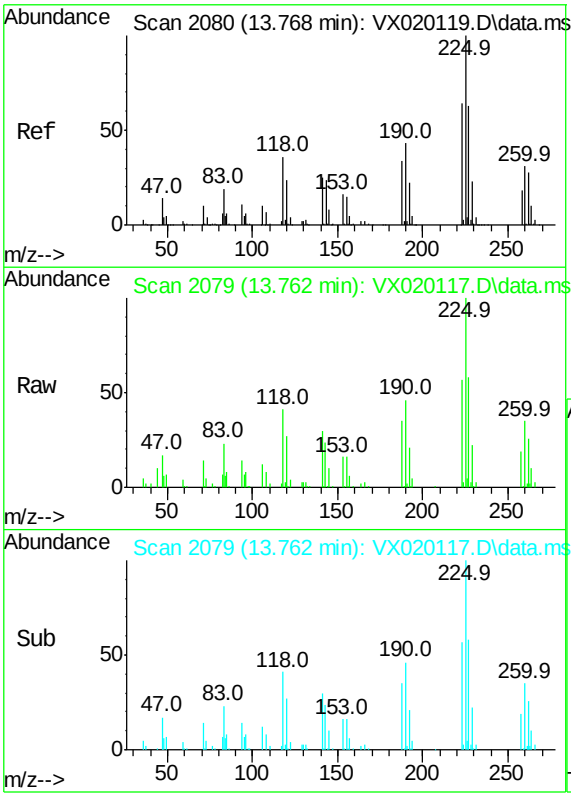


#93
1,2,4-Trichlorobenzene
Concen: 5.55 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:180 Resp: 21987

Ion	Ratio	Lower	Upper
180	100		
182	92.3	47.7	143.1
145	30.5	15.0	45.0

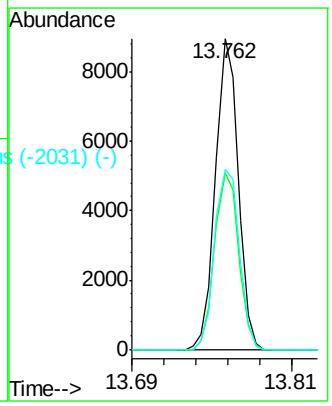




#94
Hexachlorobutadiene
Concen: 6.25 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:225 Resp: 10812

Ion	Ratio	Lower	Upper
225	100		
223	59.8	31.1	93.2
227	62.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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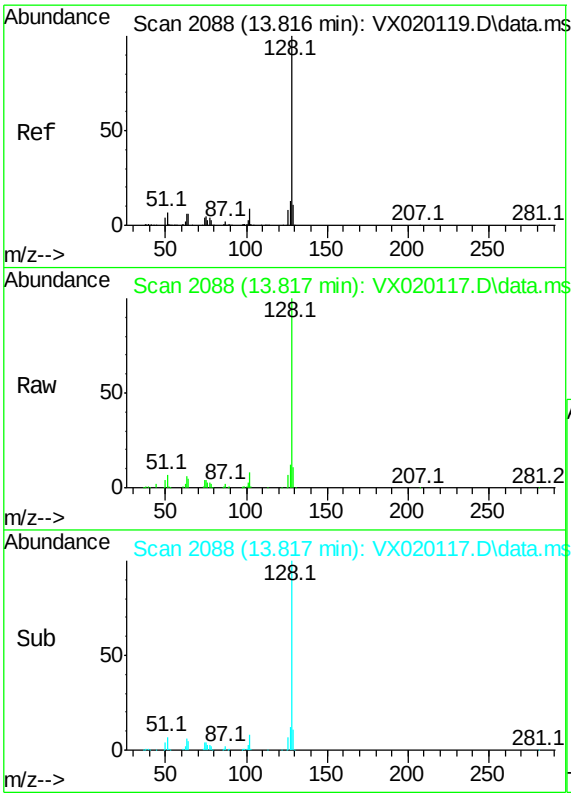
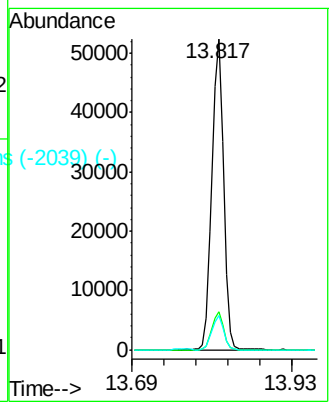
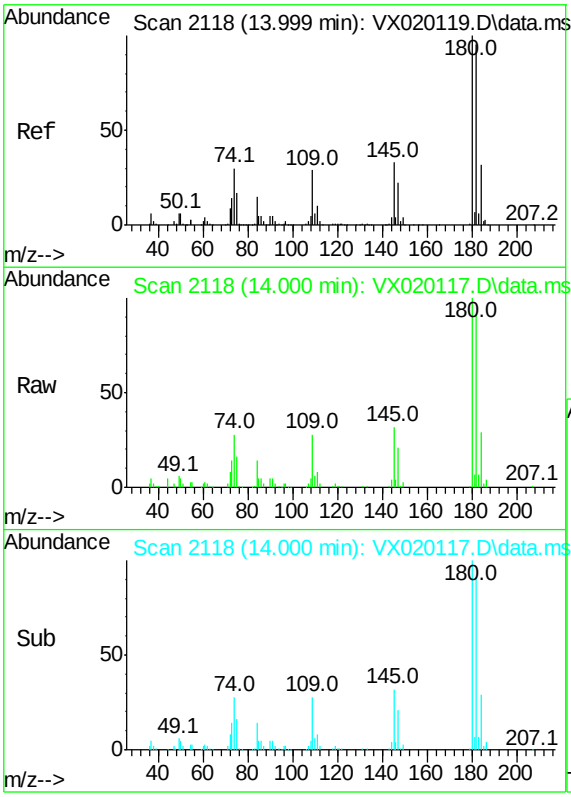


#95
Naphthalene
Concen: 4.96 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:128 Resp: 64319

Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.3	15.5
129	11.0	8.8	13.2

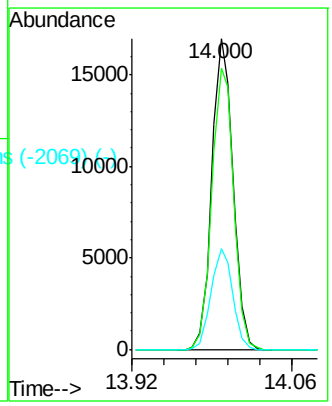




#96
1,2,3-Trichlorobenzene
Concen: 5.53 ug/l
RT: 14.000 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020117.D
Acq: 18 Dec 2020 10:59

Tgt Ion:180 Resp: 21478

Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.6	142.9
145	33.1	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020118.D
Acq On : 18 Dec 2020 11:22
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 12:25:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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12/21/2020 3:57:55 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	247854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.830	114	422890	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	395989	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	191348	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	60863	18.33	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 36.66%#			
35) Dibromofluoromethane	5.464	113	48238	17.58	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 35.16%#			
50) Toluene-d8	8.696	98	184407	17.68	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 35.36%#			
62) 4-Bromofluorobenzene	11.122	95	68207	17.17	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 34.34%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	48219	21.09	ug/l	99
3) Chloromethane	1.313	50	56053	20.39	ug/l	100
4) Vinyl Chloride	1.392	62	60323	21.09	ug/l	98
5) Bromomethane	1.624	94	24755	26.05	ug/l	97
6) Chloroethane	1.709	64	38670	22.11	ug/l	98
7) Trichlorofluoromethane	1.916	101	75915	19.35	ug/l	97
8) Diethyl Ether	2.166	74	35338	20.47	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.367	101	41489	18.52	ug/l	99
10) Methyl Iodide	2.489	142	49429	15.02	ug/l	99
11) Tert butyl alcohol	3.008	59	68150	93.10	ug/l	99
12) 1,1-Dichloroethene	2.355	96	43832	19.24	ug/l	98
13) Acrolein	2.270	56	39646	103.00	ug/l	99
14) Allyl chloride	2.703	41	79486	20.10	ug/l	98
15) Acrylonitrile	3.111	53	159513	104.08	ug/l	100
16) Acetone	2.416	43	142485	111.99	ug/l	99
17) Carbon Disulfide	2.550	76	125063	18.97	ug/l	100
18) Methyl Acetate	2.745	43	61987	20.11	ug/l	99
19) Methyl tert-butyl Ether	3.166	73	175789	20.47	ug/l	100
20) Methylene Chloride	2.831	84	60256	18.48	ug/l	95
21) trans-1,2-Dichloroethene	3.142	96	53557	19.81	ug/l	99
22) Diisopropyl ether	3.824	45	170222	21.05	ug/l	94
23) Vinyl Acetate	3.782	43	733302	105.89	ug/l	99
24) 1,1-Dichloroethane	3.666	63	98330	20.43	ug/l	100
25) 2-Butanone	4.629	43	209079	106.82	ug/l	99
26) 2,2-Dichloropropane	4.550	77	79674	19.55	ug/l	99
27) cis-1,2-Dichloroethene	4.562	96	62878	19.74	ug/l	99
28) Bromochloromethane	4.971	49	47281	20.83	ug/l	98
29) Tetrahydrofuran	5.086	42	129455	102.74	ug/l	98
30) Chloroform	5.172	83	101494	20.48	ug/l	99
31) Cyclohexane	5.544	56	78973	19.45	ug/l	99
32) 1,1,1-Trichloroethane	5.458	97	81252	19.44	ug/l	99
36) 1,1-Dichloropropene	5.763	75	70826	18.55	ug/l	99
37) Ethyl Acetate	4.788	43	77236	19.43	ug/l	100
38) Carbon Tetrachloride	5.751	117	66549	17.91	ug/l	97
39) Methylcyclohexane	7.434	83	77166	17.44	ug/l	98
40) Benzene	6.111	78	230779	19.43	ug/l	98
41) Methacrylonitrile	4.995	41	41522	19.05	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020118.D
Acq On : 18 Dec 2020 11:22
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:55 PM

Quant Time: Dec 18 12:25:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,2-Dichloroethane	6.159	62	81923	20.06 ug/l	99
43) Isopropyl Acetate	6.409	43	122463	19.04 ug/l	99
44) Trichloroethene	7.184	130	57435	18.65 ug/l	95
45) 1,2-Dichloropropane	7.488	63	59240	19.82 ug/l	99
46) Dibromomethane	7.635	93	39632	19.61 ug/l	99
47) Bromodichloromethane	7.873	83	75932	19.04 ug/l	98
48) Methyl methacrylate	7.745	41	60534	19.12 ug/l	98
49) 1,4-Dioxane	7.714	88	28042	369.33 ug/l	98
51) 4-Methyl-2-Pentanone	8.616	43	392217	99.61 ug/l	99
52) Toluene	8.763	92	143180	19.36 ug/l	99
53) t-1,3-Dichloropropene	9.019	75	81873	18.53 ug/l	99
54) cis-1,3-Dichloropropene	8.415	75	92588	19.24 ug/l	97
55) 1,1,2-Trichloroethane	9.195	97	59270	19.67 ug/l	99
56) Ethyl methacrylate	9.159	69	85647	18.82 ug/l	99
57) 1,3-Dichloropropane	9.348	76	101411	19.67 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.287	63	224154	93.12 ug/l	99
59) 2-Hexanone	9.470	43	299827	98.71 ug/l	98
60) Dibromochloromethane	9.561	129	57319	18.82 ug/l	99
61) 1,2-Dibromoethane	9.653	107	62415	19.51 ug/l	98
64) Tetrachloroethene	9.317	164	51016	19.24 ug/l	97
65) Chlorobenzene	10.116	112	149731	18.86 ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.201	131	53618	18.76 ug/l	98
67) Ethyl Benzene	10.232	91	259747	18.54 ug/l	99
68) m/p-Xylenes	10.342	106	197210	37.33 ug/l	99
69) o-Xylene	10.683	106	93726	18.39 ug/l	96
70) Styrene	10.695	104	161339	18.73 ug/l	100
71) Bromoform	10.842	173	39924	17.90 ug/l #	98
73) Isopropylbenzene	11.000	105	247233	18.88 ug/l	100
74) N-amyl acetate	10.878	43	98531	18.50 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.250	83	91588	19.59 ug/l	99
76) 1,2,3-Trichloropropane	11.280	75	85240m	19.59 ug/l	
77) Bromobenzene	11.238	156	63643	18.83 ug/l	97
78) n-propylbenzene	11.341	91	278837	18.67 ug/l	100
79) 2-Chlorotoluene	11.402	91	178150	19.19 ug/l	98
80) 1,3,5-Trimethylbenzene	11.488	105	211656	19.14 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.055	75	26562	17.68 ug/l	93
82) 4-Chlorotoluene	11.494	91	203432	18.69 ug/l	99
83) tert-Butylbenzene	11.756	119	196115	18.21 ug/l	97
84) 1,2,4-Trimethylbenzene	11.793	105	213677	19.08 ug/l	99
85) sec-Butylbenzene	11.927	105	221677	18.11 ug/l	100
86) p-Isopropyltoluene	12.049	119	206808	18.34 ug/l	99
87) 1,3-Dichlorobenzene	12.006	146	112563	18.23 ug/l	99
88) 1,4-Dichlorobenzene	12.079	146	114981	18.25 ug/l	99
89) n-Butylbenzene	12.372	91	171559	17.27 ug/l	99
90) Hexachloroethane	12.579	117	34164	17.57 ug/l	96
91) 1,2-Dichlorobenzene	12.372	146	114556	19.00 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	18767	18.62 ug/l	93
93) 1,2,4-Trichlorobenzene	13.628	180	68029	17.45 ug/l	98
94) Hexachlorobutadiene	13.762	225	27604	16.23 ug/l	97
95) Naphthalene	13.817	128	233085	18.28 ug/l	99
96) 1,2,3-Trichlorobenzene	13.999	180	68899	18.04 ug/l	99

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

MMDadoda
12/21/2020 3:57:55 PM

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Data File : VX020118.D
Acq On : 18 Dec 2020 11:22
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 12:25:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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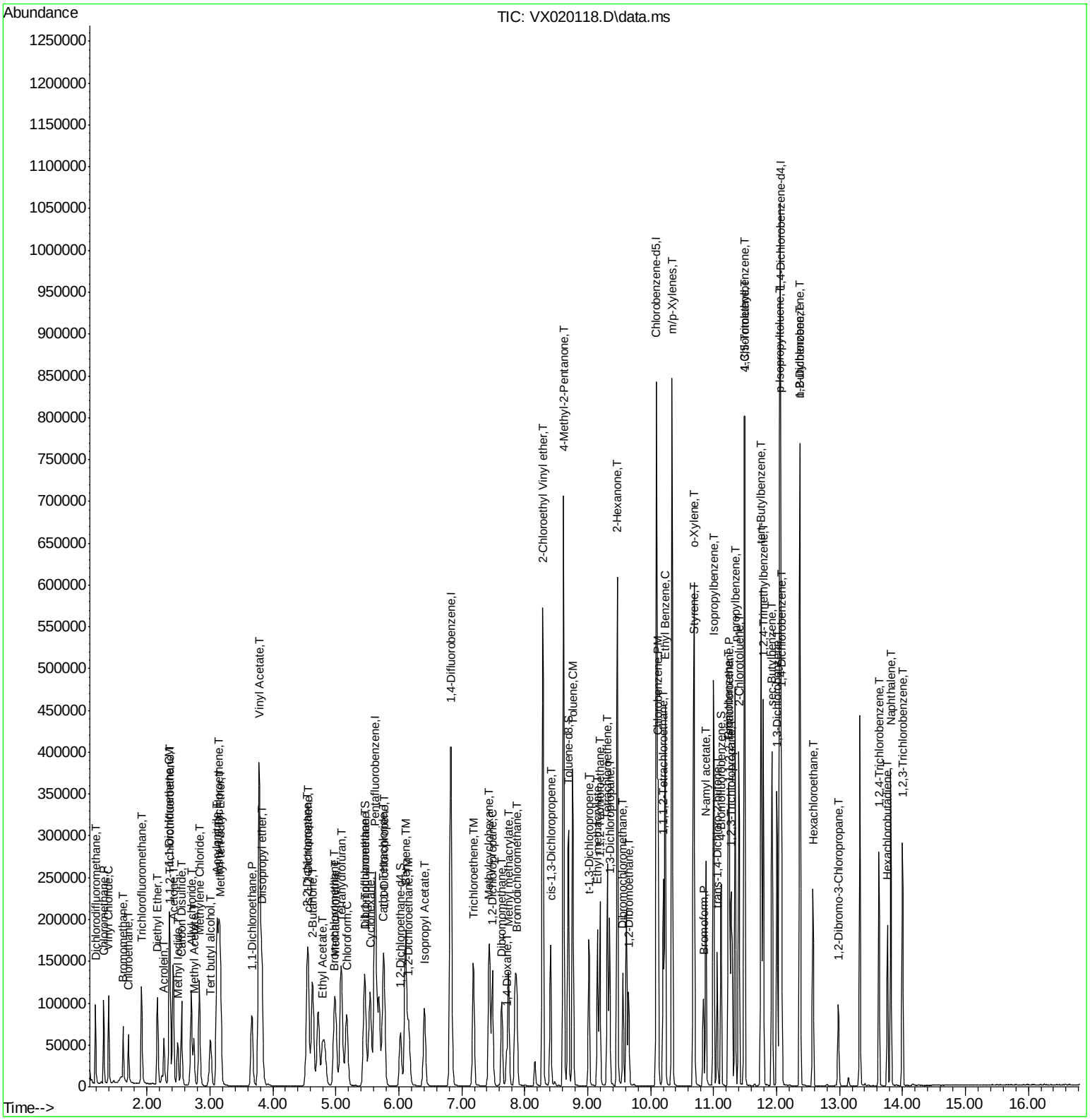

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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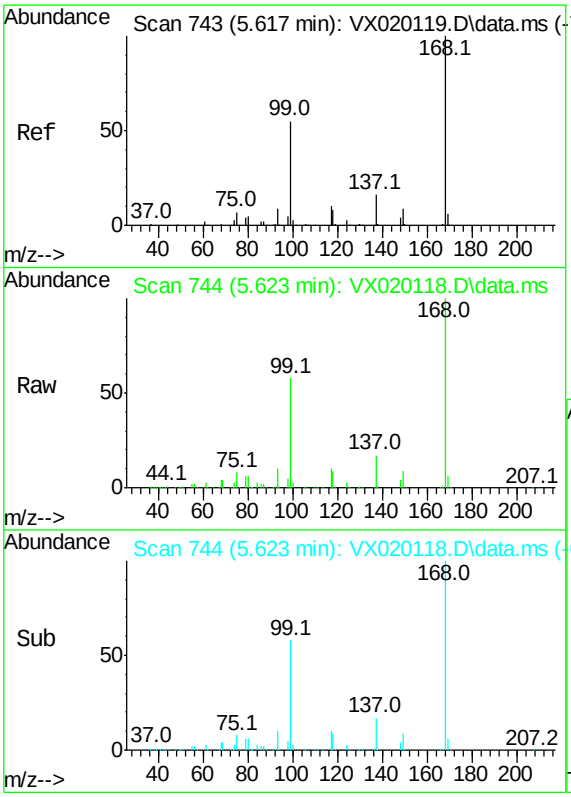
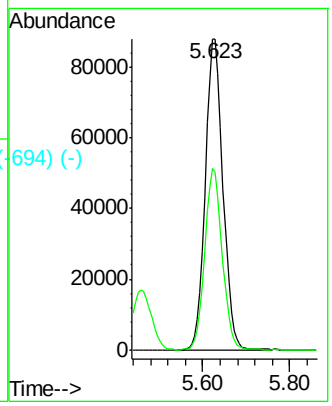
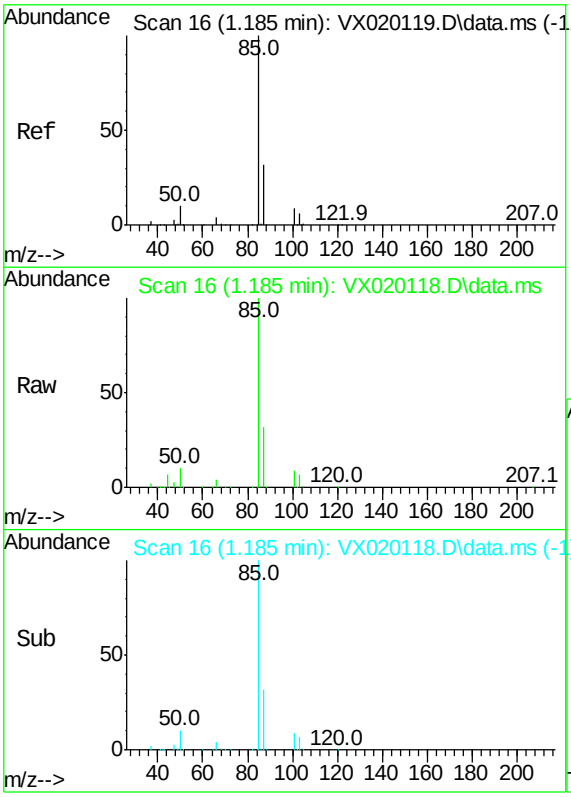


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 744
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:168 Resp: 247854

Ion	Ratio	Lower	Upper
168	100		
99	58.4	45.8	68.6

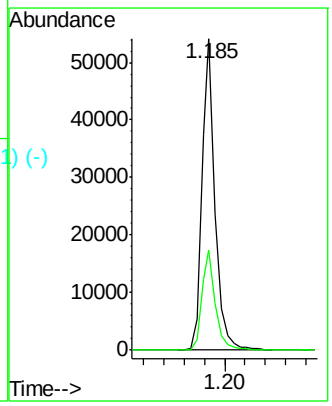




#2
Dichlorodifluoromethane
Concen: 21.09 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 85 Resp: 48219

Ion	Ratio	Lower	Upper
85	100		
87	32.1	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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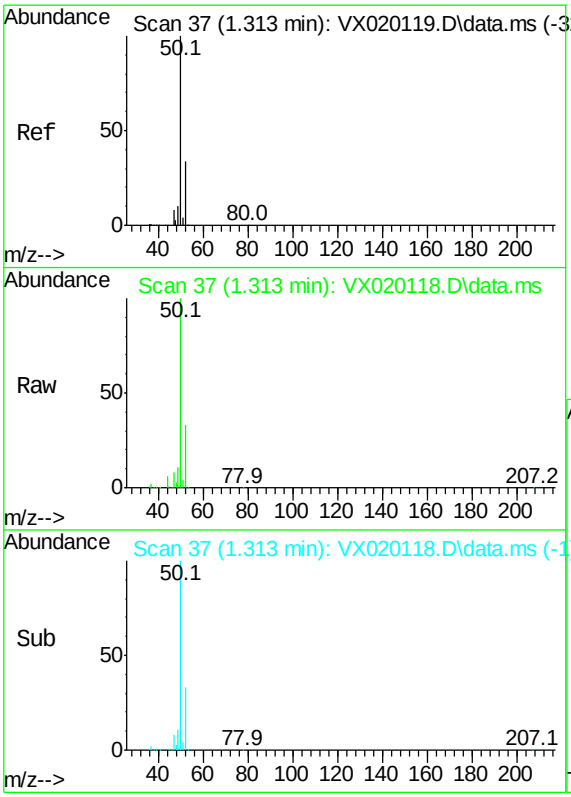
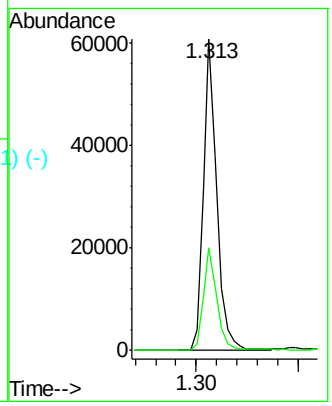
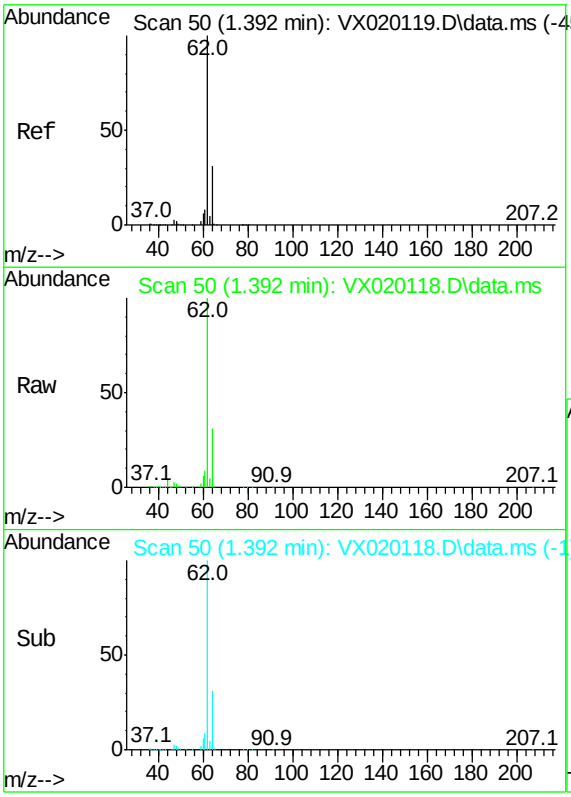


#3
Chloromethane
Concen: 20.39 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 50 Resp: 56053

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.4	39.6

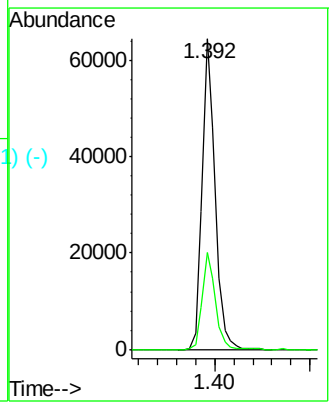




#4
Vinyl Chloride
Concen: 21.09 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 62 Resp: 60323

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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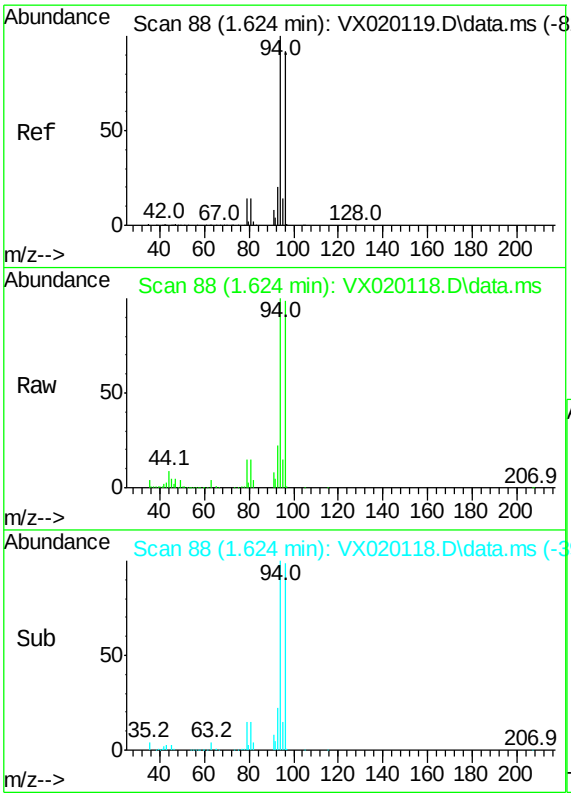
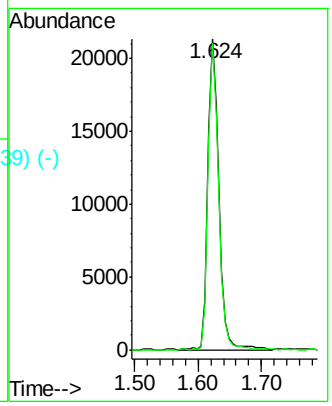
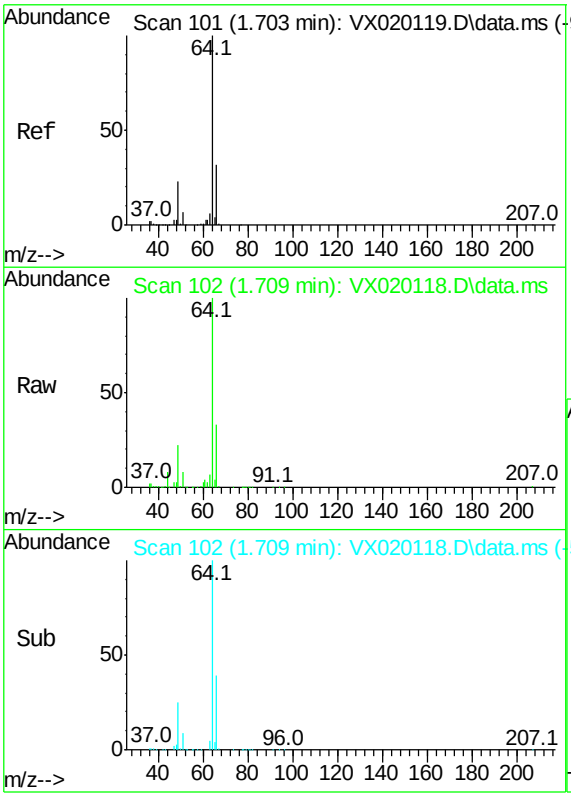


#5
Bromomethane
Concen: 26.05 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 94 Resp: 24755

Ion	Ratio	Lower	Upper
94	100		
96	98.8	76.4	114.6

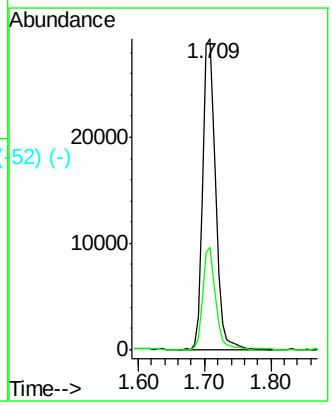




#6
Chloroethane
Concen: 22.11 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 64 Resp: 38670

Ion	Ratio	Lower	Upper
64	100		
66	32.9	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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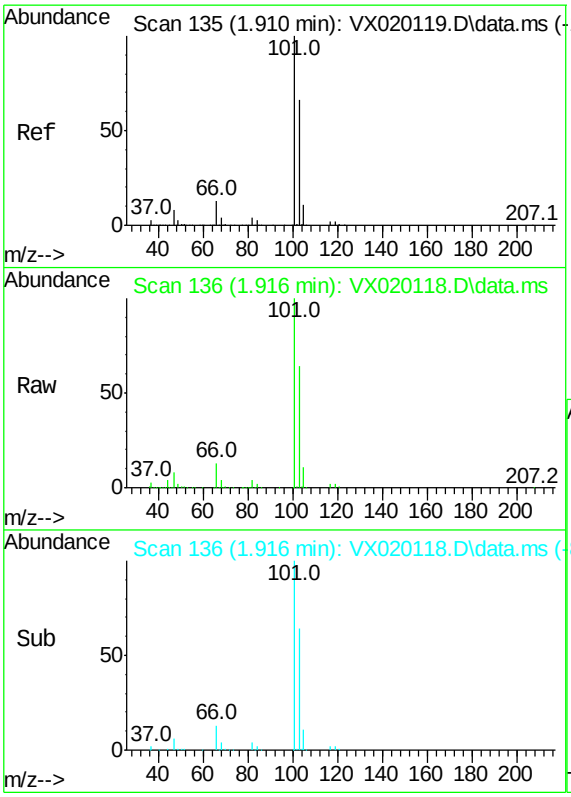
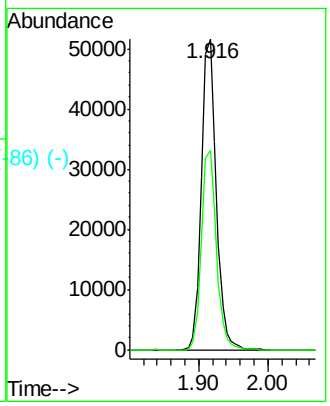
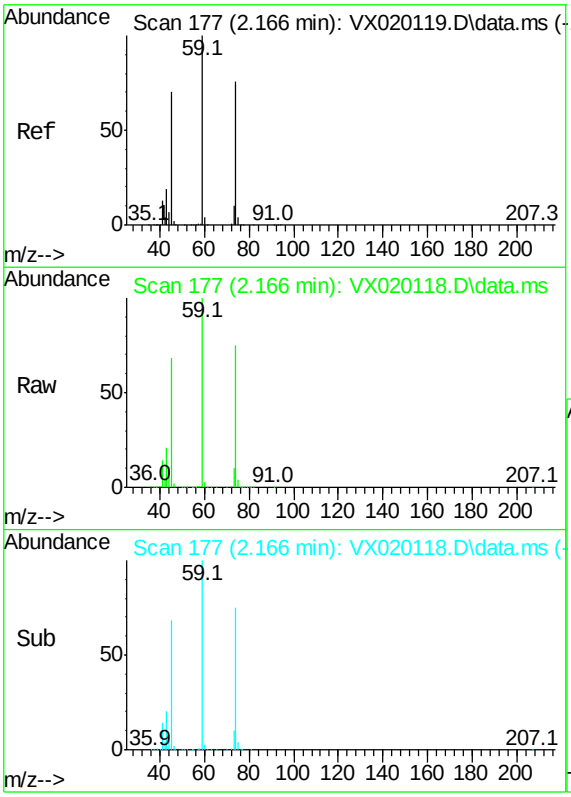


#7
Trichlorofluoromethane
Concen: 19.35 ug/l
RT: 1.916 min Scan# 136
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:101 Resp: 75915

Ion	Ratio	Lower	Upper
101	100		
103	64.0	53.2	79.8

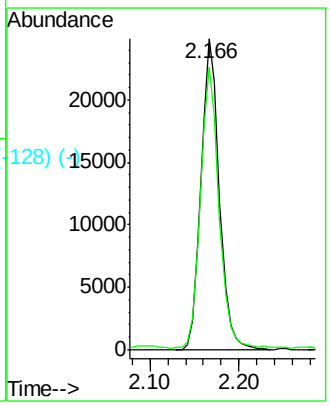




#8
Diethyl Ether
Concen: 20.47 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 74 Resp: 35338

Ion	Ratio	Lower	Upper
74	100		
45	91.3	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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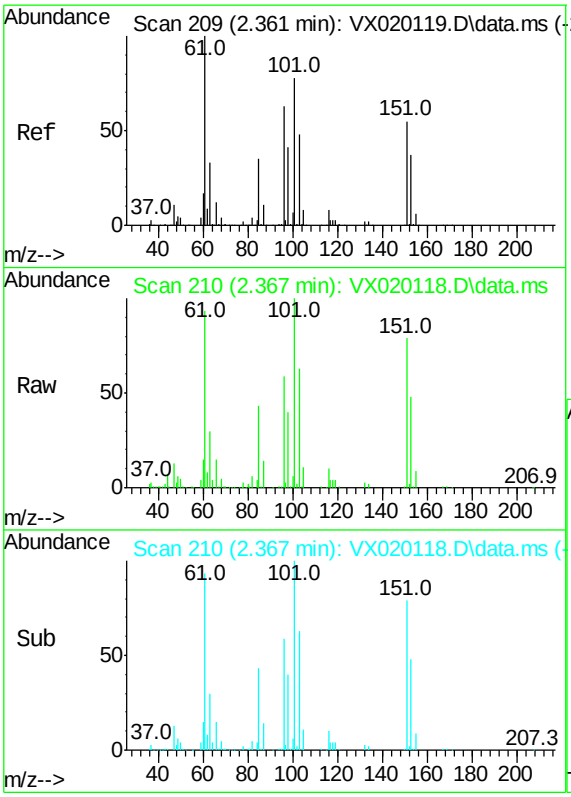
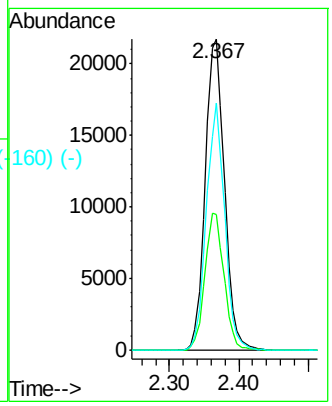
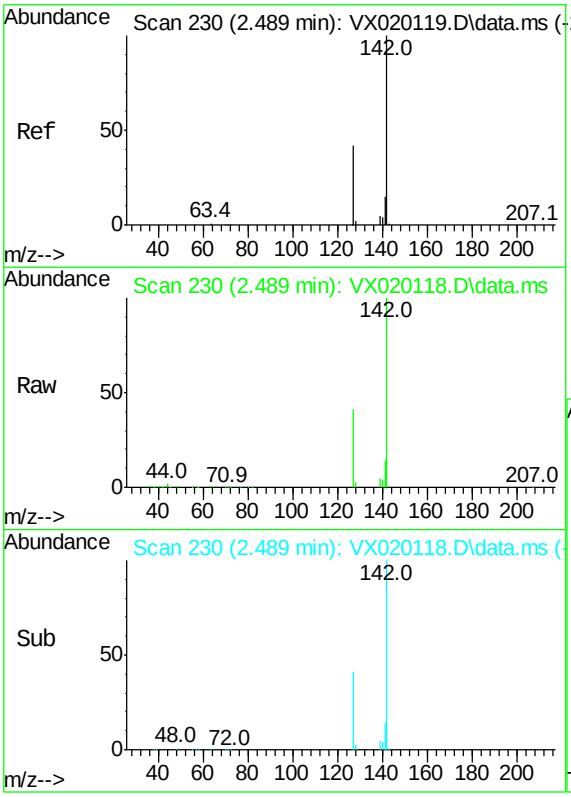


#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.52 ug/l
RT: 2.367 min Scan# 210
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:101 Resp: 41489

Ion	Ratio	Lower	Upper
101	100		
85	43.8	34.9	52.3
151	75.6	61.4	92.2

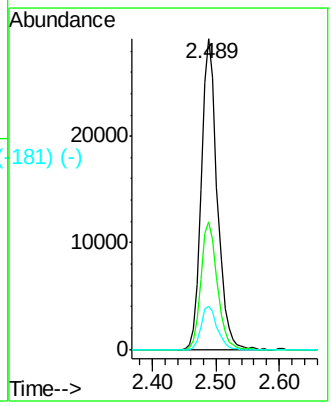




#10
Methyl Iodide
Concen: 15.02 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:142 Resp: 49429

Ion	Ratio	Lower	Upper
142	100		
127	42.3	33.3	49.9
141	14.0	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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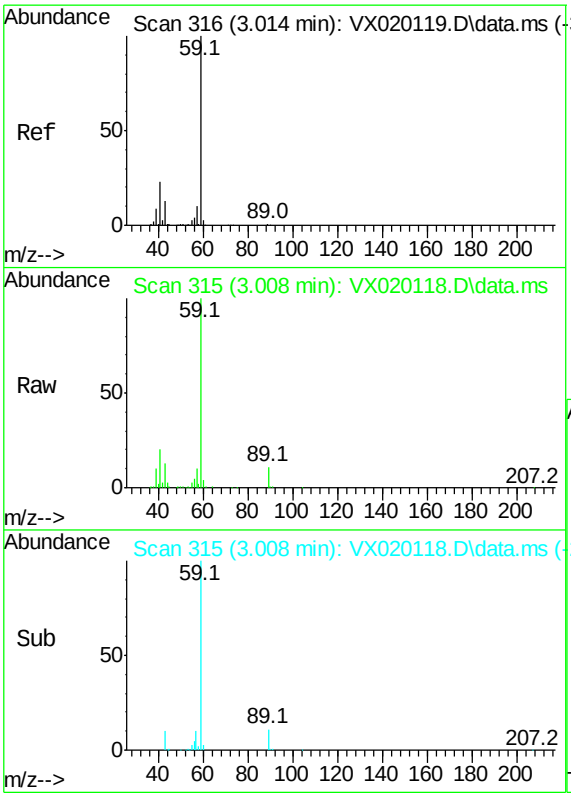
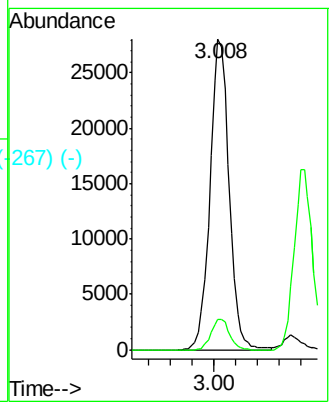
12/21/2020 3:57:55 PM

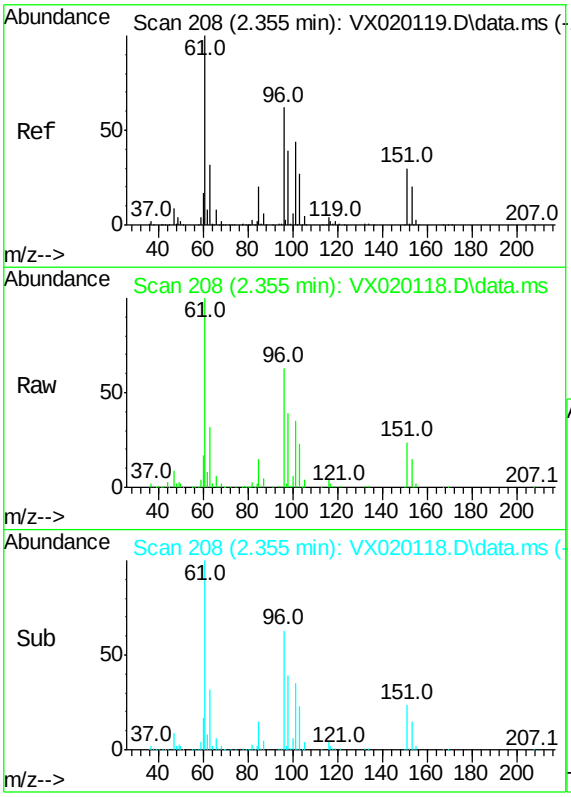


#11
Tert butyl alcohol
Concen: 93.10 ug/l
RT: 3.008 min Scan# 315
Delta R.T. -0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 59 Resp: 68150

Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.8	11.8

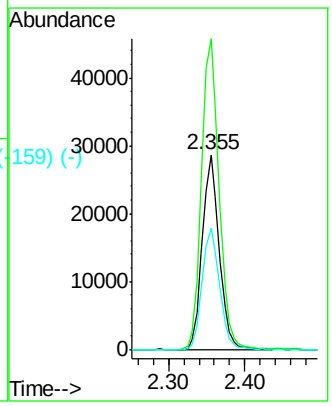




#12
1,1-Dichloroethene
Concen: 19.24 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 96 Resp: 43832

Ion	Ratio	Lower	Upper
96	100		
61	159.7	124.6	187.0
98	62.6	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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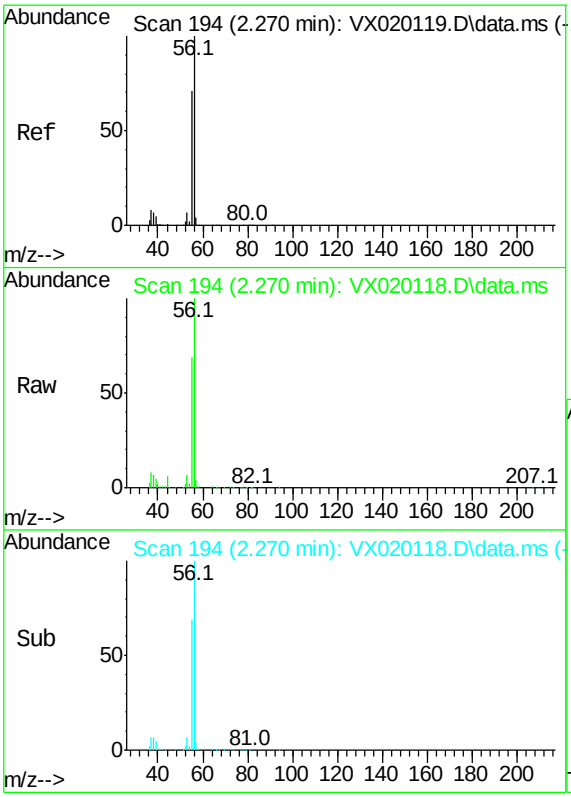
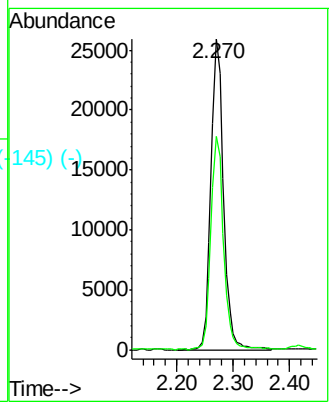
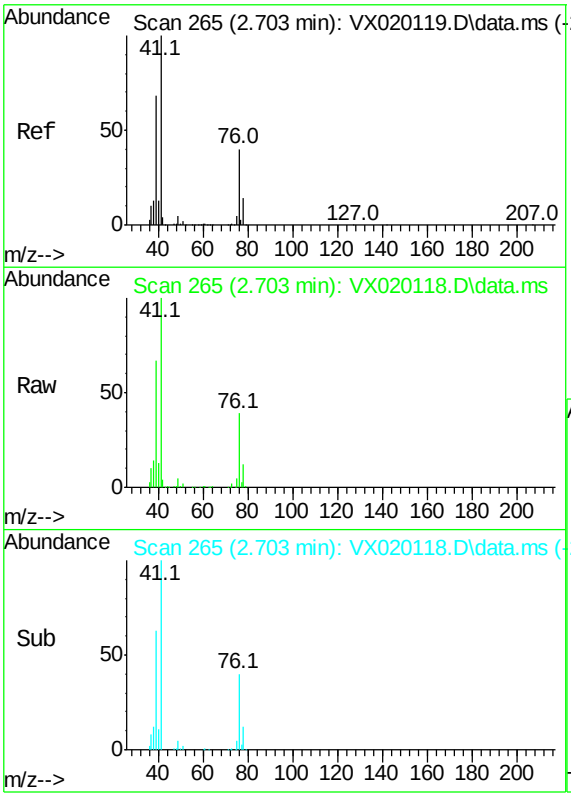


#13
Acrolein
Concen: 103.00 ug/l
RT: 2.270 min Scan# 194
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 56 Resp: 39646

Ion	Ratio	Lower	Upper
56	100		
55	69.9	56.4	84.6

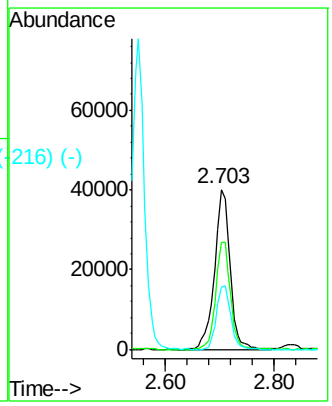




#14
Allyl chloride
Concen: 20.10 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 41 Resp: 79486

Ion	Ratio	Lower	Upper
41	100		
39	63.0	51.6	77.4
76	36.4	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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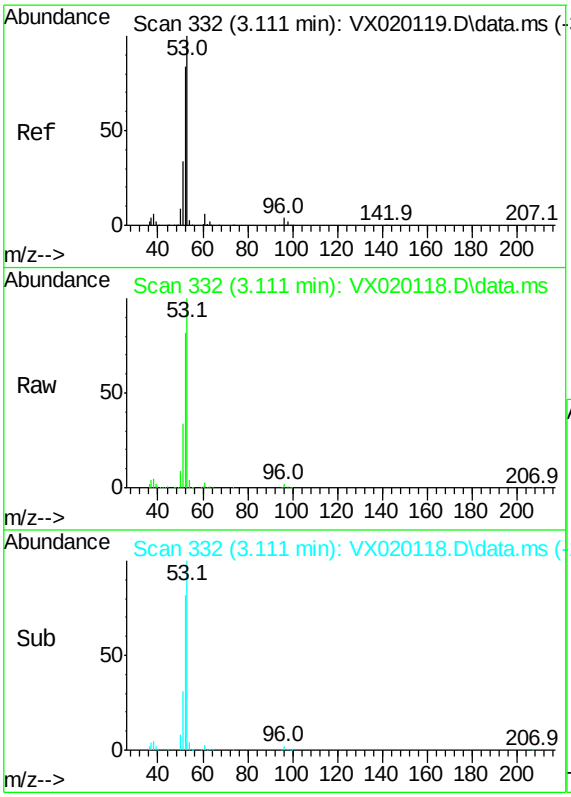
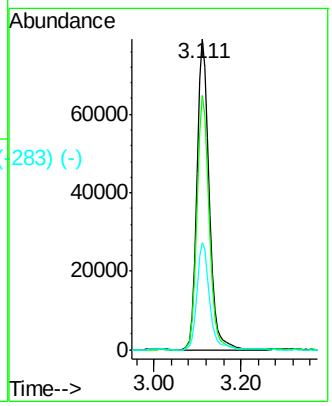
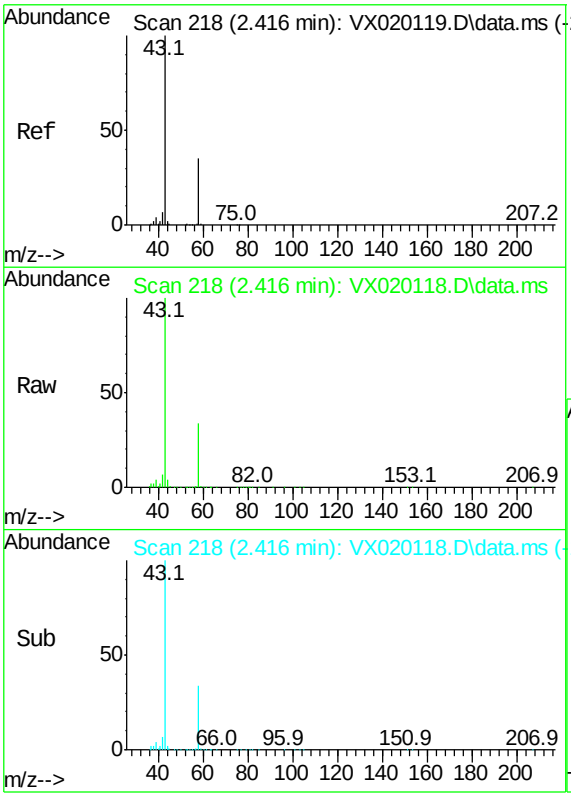


#15
Acrylonitrile
Concen: 104.08 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 53 Resp: 159513

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.3	97.9
51	35.2	28.2	42.2

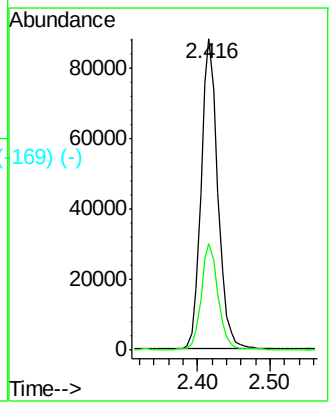




#16
Acetone
Concen: 111.99 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 142485

Ion	Ratio	Lower	Upper
43	100		
58	34.1	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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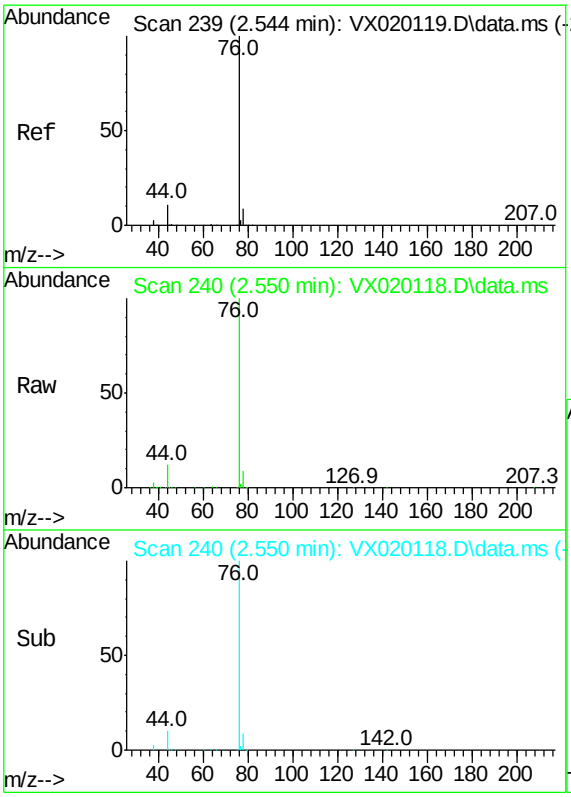
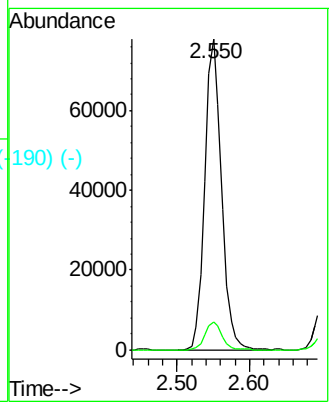
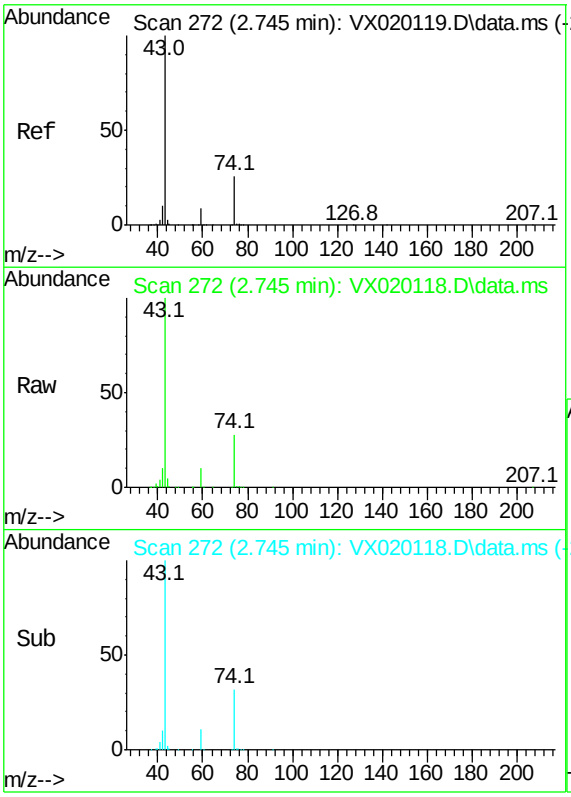


#17
Carbon Disulfide
Concen: 18.97 ug/l
RT: 2.550 min Scan# 240
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 76 Resp: 125063

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

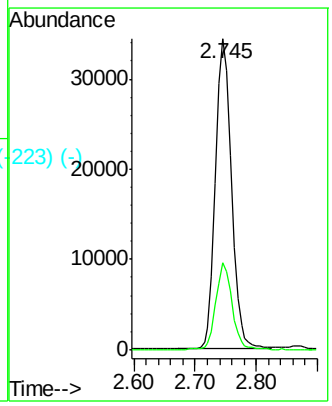




#18
Methyl Acetate
Concen: 20.11 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 61987

Ion	Ratio	Lower	Upper
43	100		
74	27.9	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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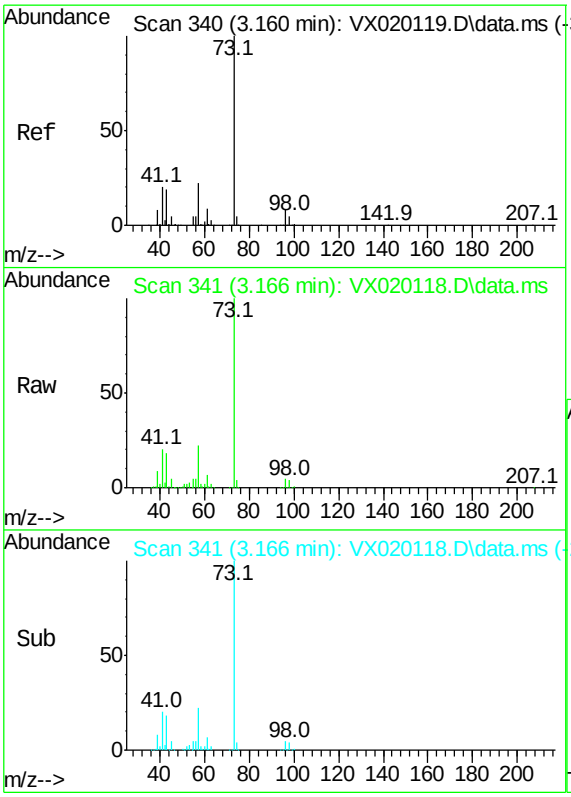
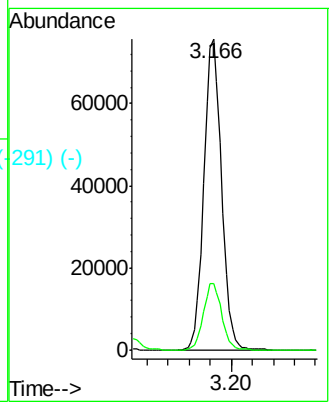
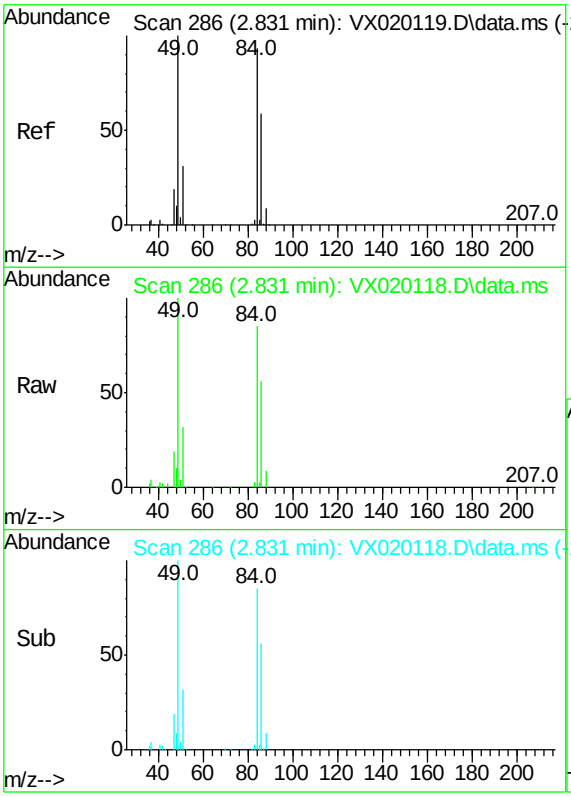


#19
Methyl tert-butyl Ether
Concen: 20.47 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 73 Resp: 175789

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

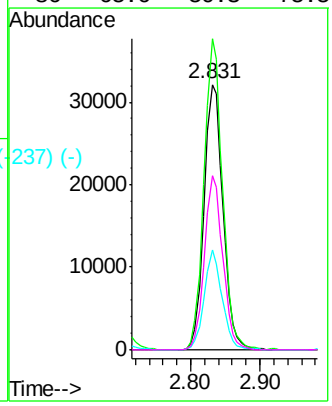




#20
Methylene Chloride
Concen: 18.48 ug/l
RT: 2.831 min Scan# 286
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 84 Resp: 60256

Ion	Ratio	Lower	Upper
84	100		
49	117.2	88.6	132.8
51	37.7	27.0	40.6
86	65.6	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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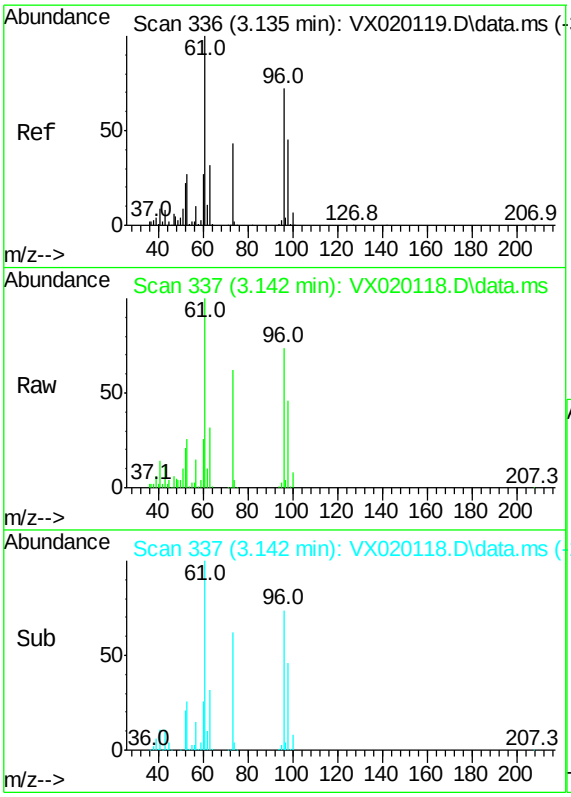
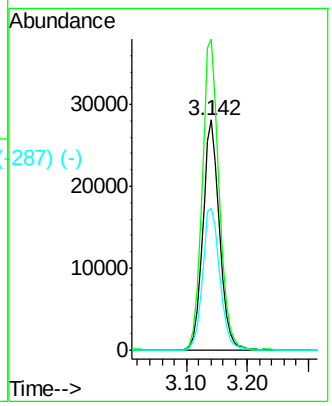
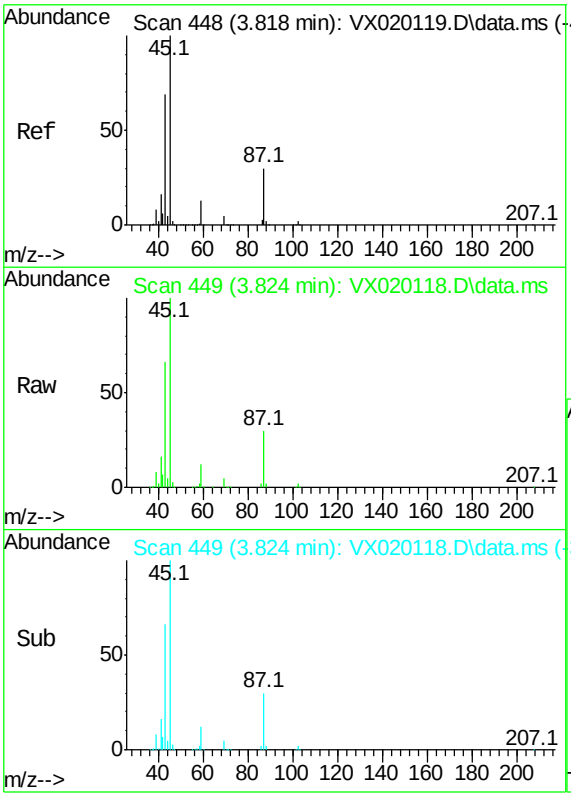


#21
trans-1,2-Dichloroethene
Concen: 19.81 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 96 Resp: 53557

Ion	Ratio	Lower	Upper
96	100		
61	135.3	107.7	161.5
98	61.6	50.4	75.6

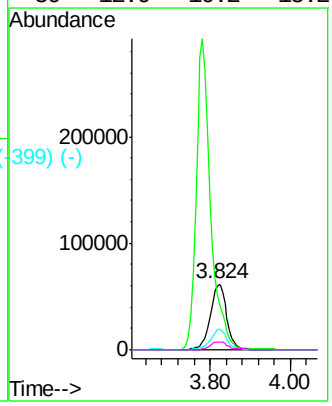




#22
Diisopropyl ether
Concen: 21.05 ug/l
RT: 3.824 min Scan# 449
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 45 Resp: 170222

Ion	Ratio	Lower	Upper
45	100		
43	66.1	58.0	87.0
87	30.4	25.4	38.0
59	12.0	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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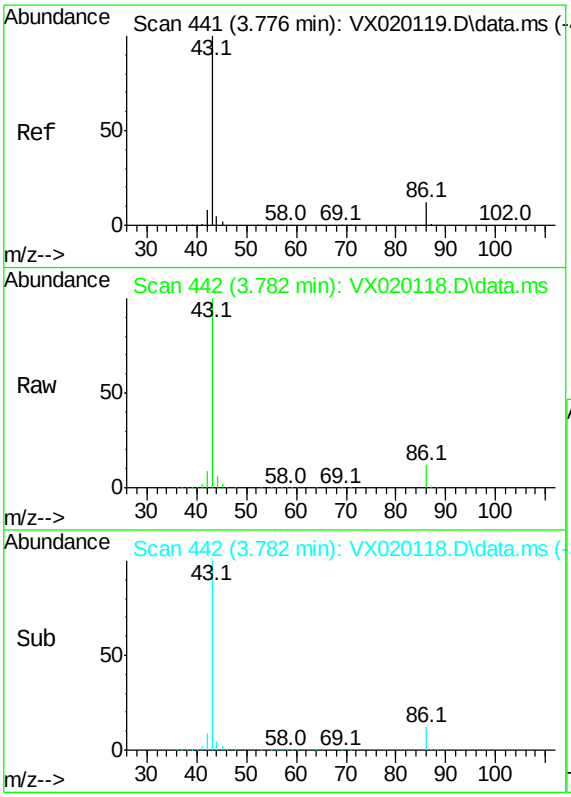
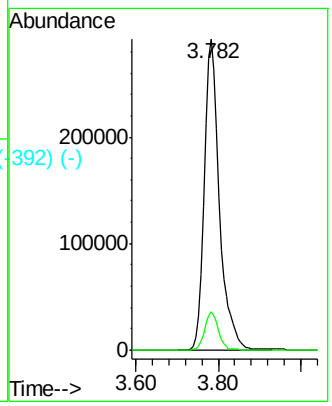
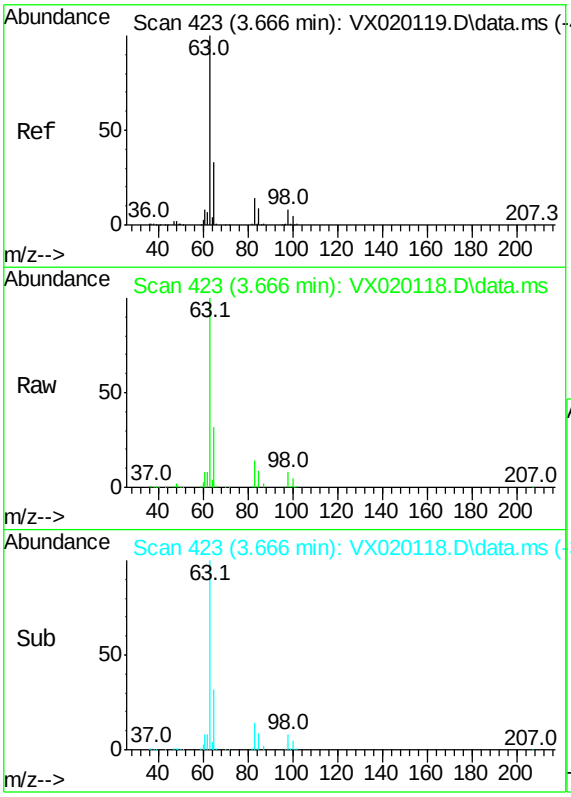


#23
Vinyl Acetate
Concen: 105.89 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 733302

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.9	14.9

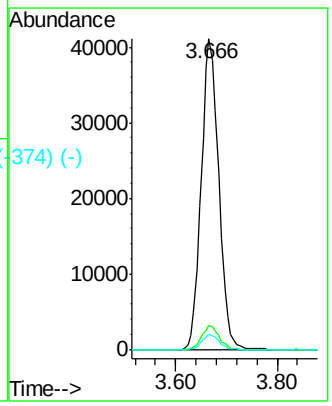




#24
1,1-Dichloroethane
Concen: 20.43 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 63 Resp: 98330

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.8	11.2
100	4.9	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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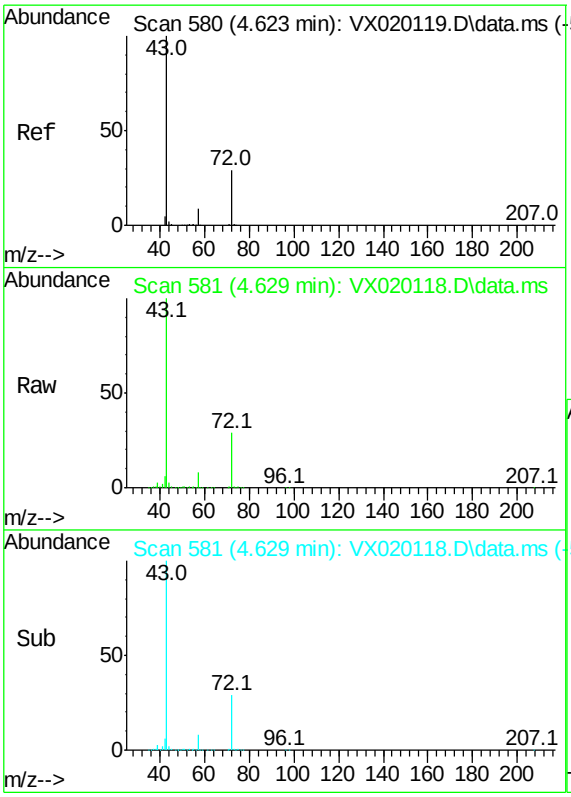
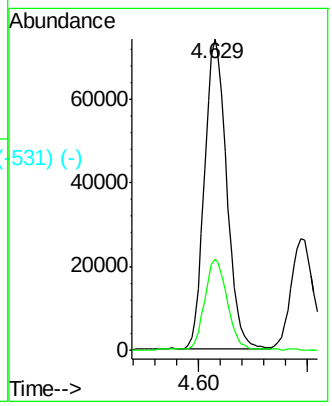
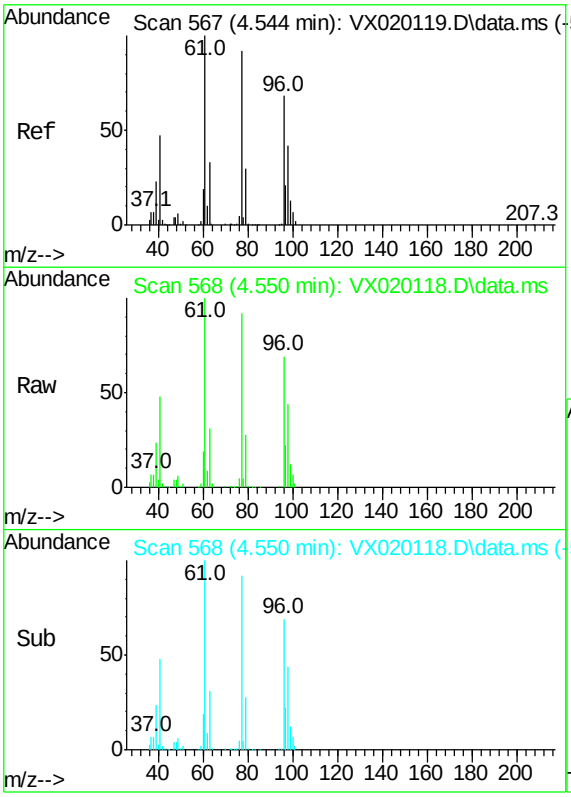


#25
2-Butanone
Concen: 106.82 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 209079

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.7	35.5

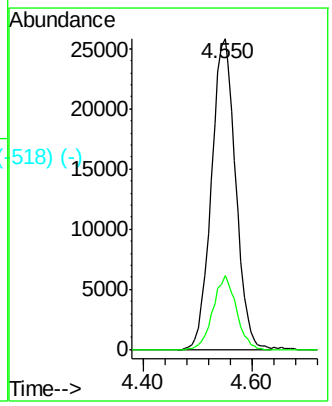




#26
2,2-Dichloropropane
Concen: 19.55 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 77 Resp: 79674

Ion	Ratio	Lower	Upper
77	100		
97	22.8	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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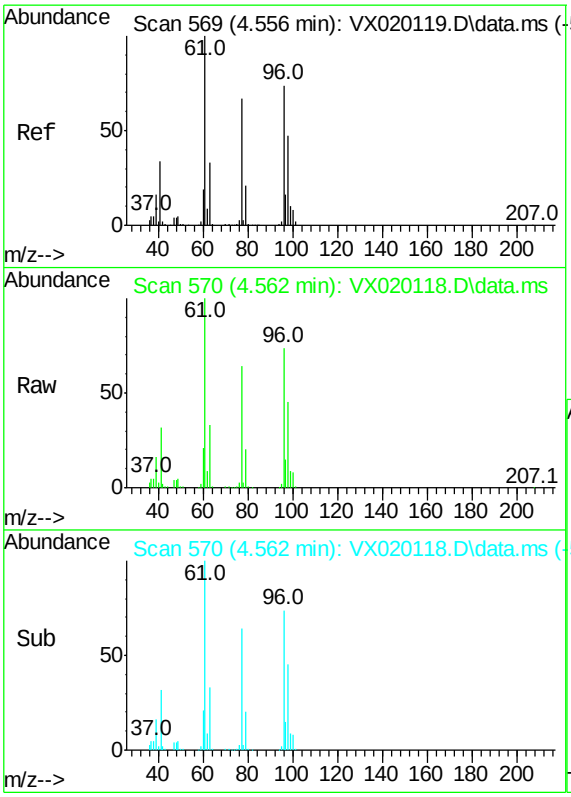
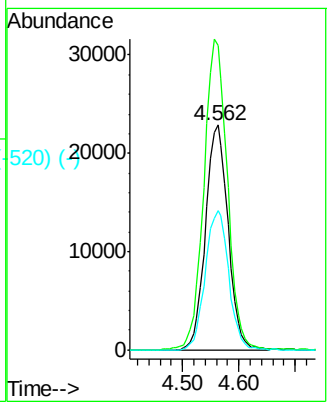
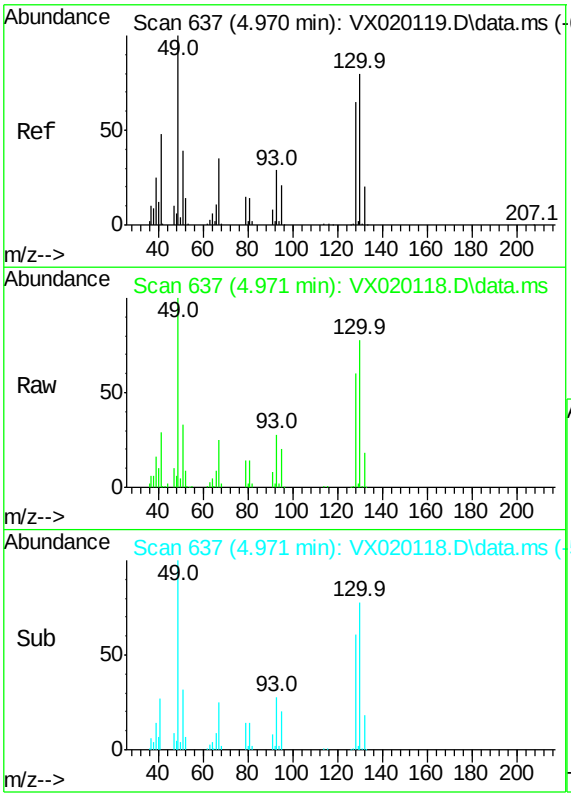


#27 (-)
cis-1,2-Dichloroethene
Concen: 19.74 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 96 Resp: 62878

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	285.6
98	64.3	0.0	129.6

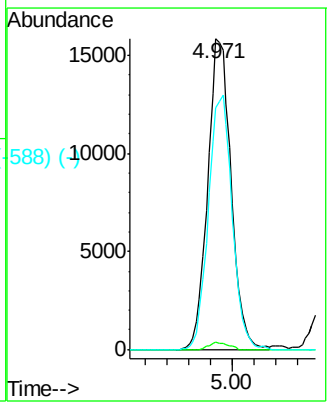




#28 (-)
Bromochloromethane
Concen: 20.83 ug/l
RT: 4.971 min Scan# 637
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 49 Resp: 47281

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	83.2	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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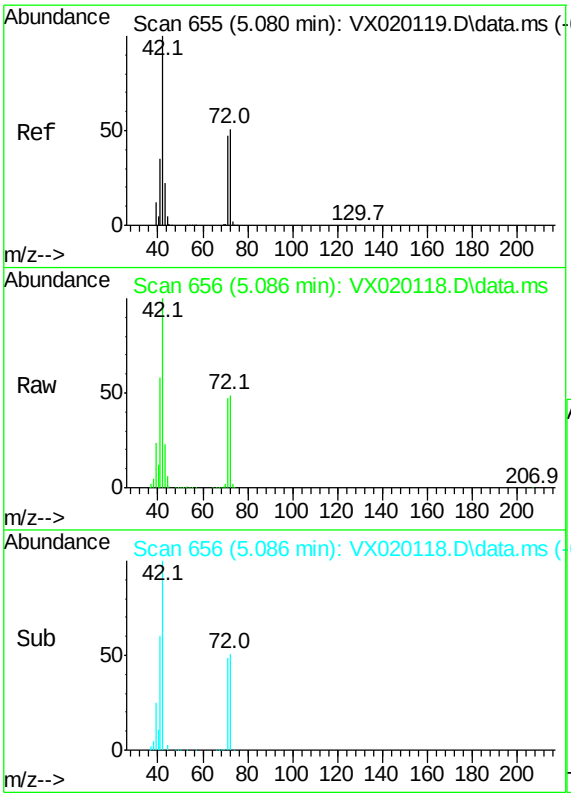
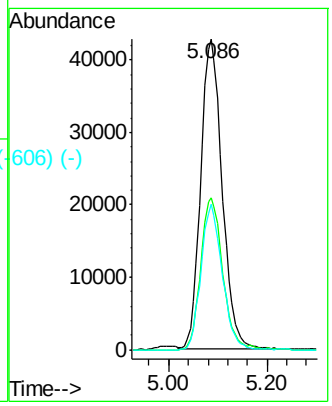
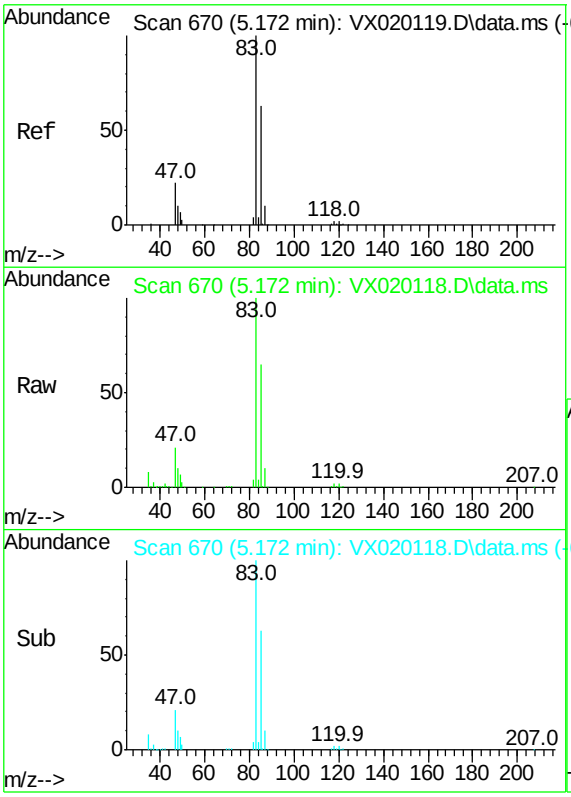


#29
Tetrahydrofuran
Concen: 102.74 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 42 Resp: 129455

Ion	Ratio	Lower	Upper
42	100		
72	50.6	41.7	62.5
71	46.5	38.4	57.6

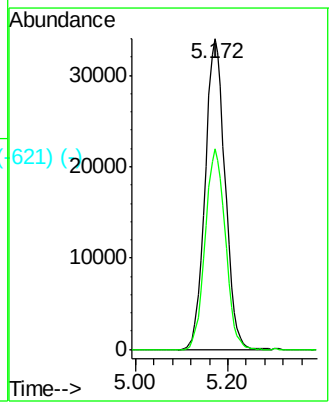




#30
Chloroform
Concen: 20.48 ug/l
RT: 5.172 min Scan# 670
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 83 Resp: 101494

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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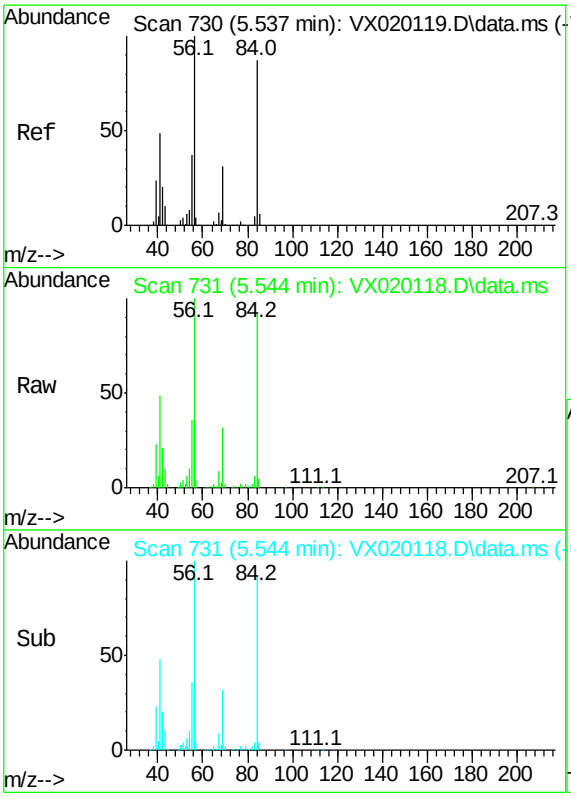
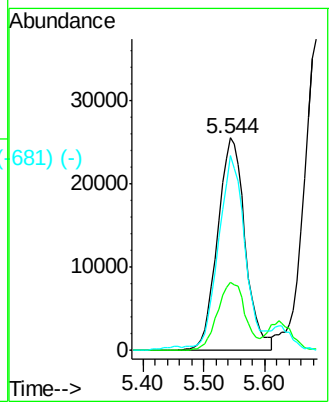
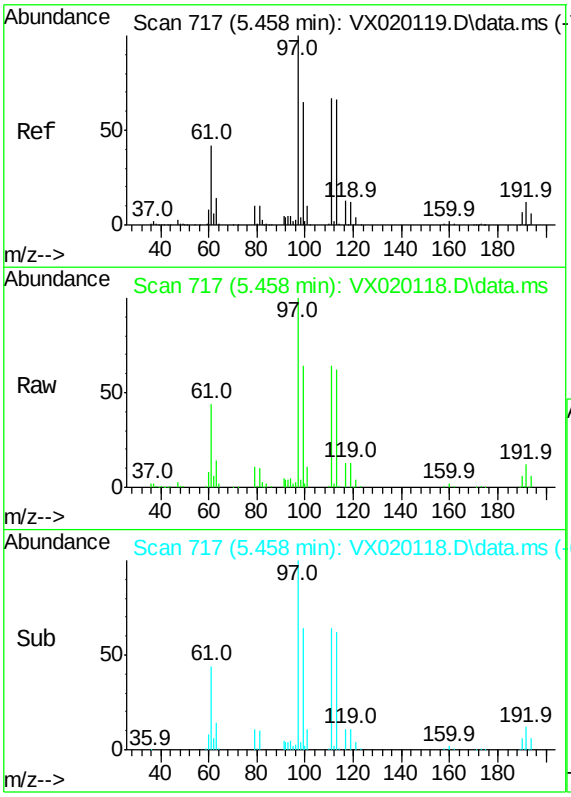


#81 (-)
Cyclohexane
Concen: 19.45 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 56 Resp: 78973

Ion	Ratio	Lower	Upper
56	100		
69	31.9	25.3	37.9
84	90.0	71.4	107.0

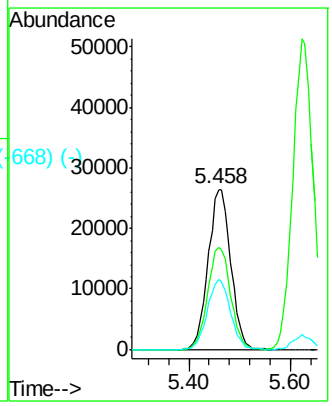




#82 (-)
1,1,1-Trichloroethane
Concen: 19.44 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 97 Resp: 81252

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.5	77.3
61	44.2	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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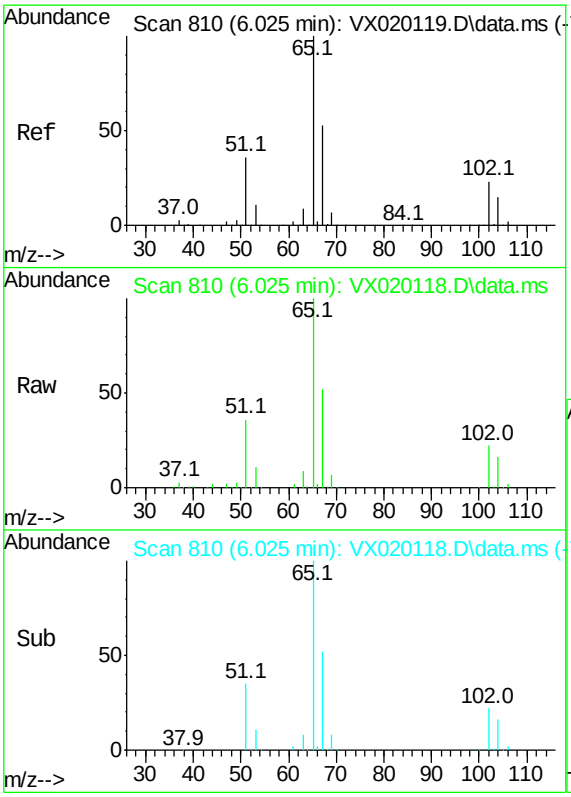
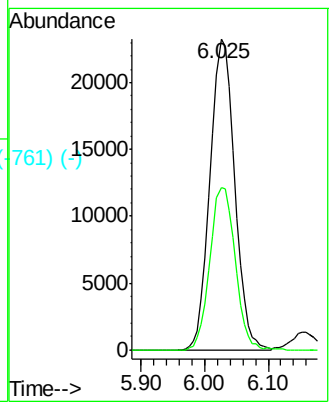
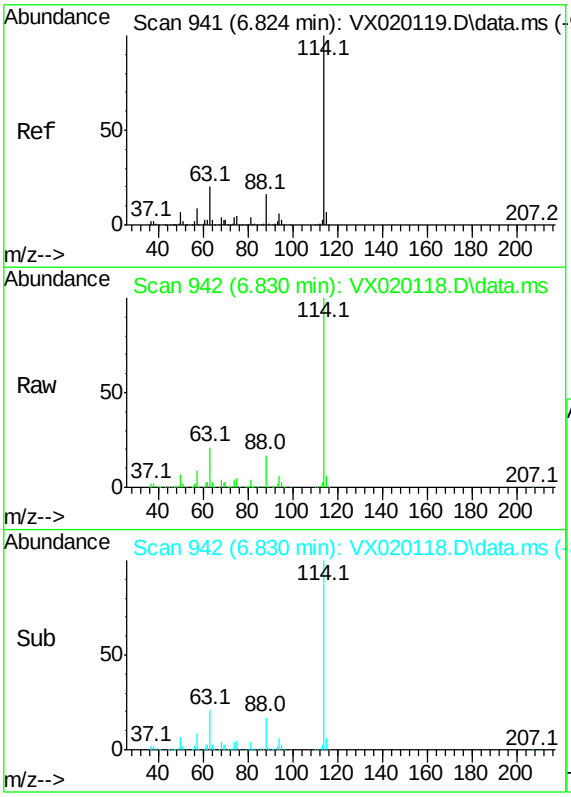


#33
1,2-Dichloroethane-d4
Concen: 18.33 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 65 Resp: 60863

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	105.4

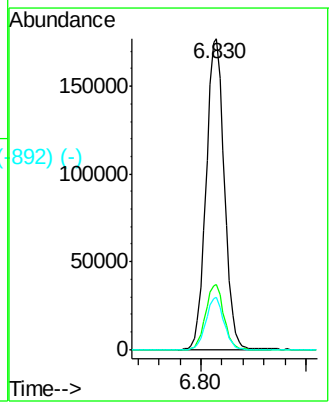




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:114 Resp: 422890

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.8
88	16.7	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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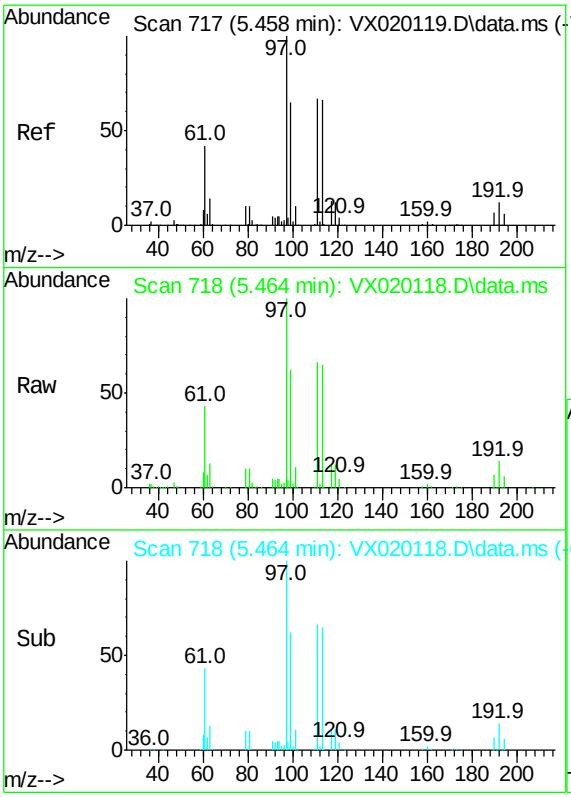
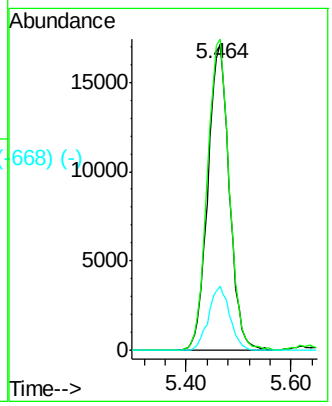
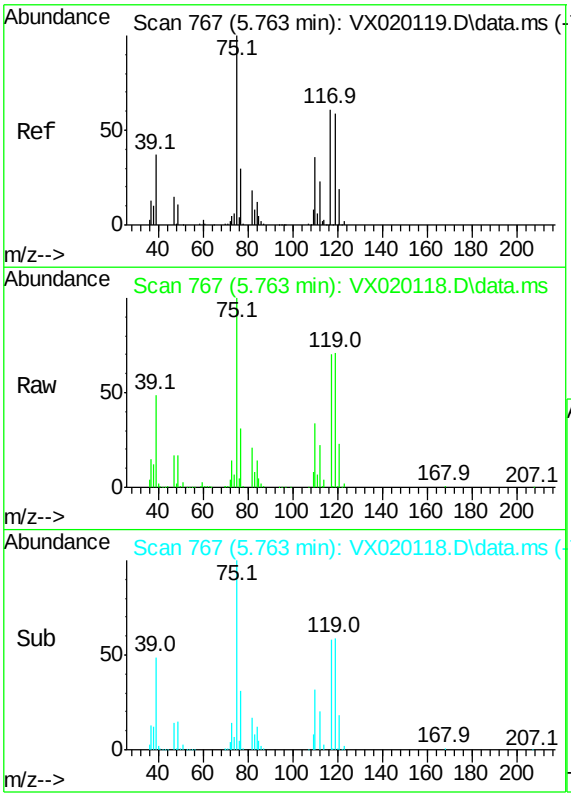


#35
Dibromofluoromethane
Concen: 17.58 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:113 Resp: 48238

Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.9	122.9
192	20.5	16.7	25.1

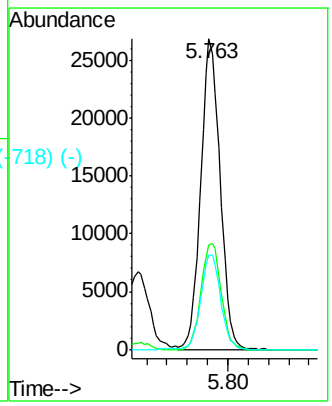




#36
1,1-Dichloropropene
Concen: 18.55 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 75 Resp: 70826

Ion	Ratio	Lower	Upper
75	100		
110	35.4	18.1	54.4
77	31.2	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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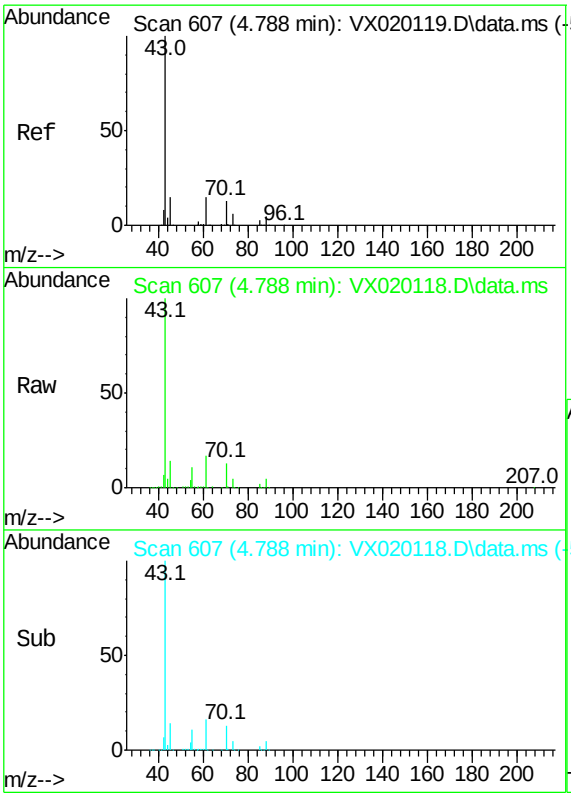
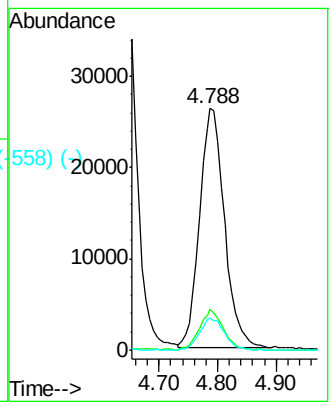
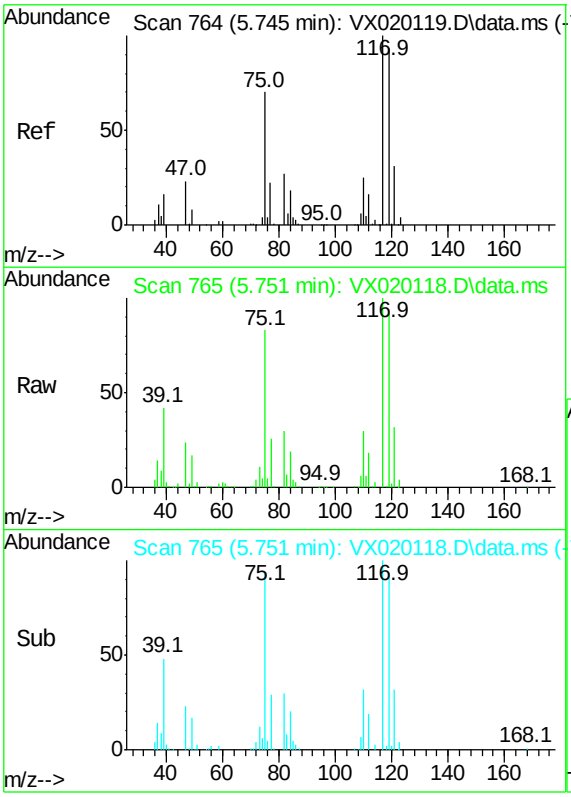


#37
Ethyl Acetate
Concen: 19.43 ug/l
RT: 4.788 min Scan# 607
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 77236

Ion	Ratio	Lower	Upper
43	100		
61	15.8	12.8	19.2
70	12.9	10.5	15.7

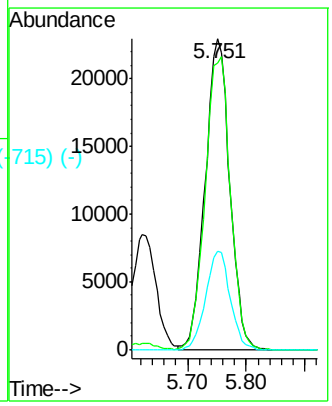




#38
Carbon Tetrachloride
Concen: 17.91 ug/l
RT: 5.751 min Scan# 765
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:117 Resp: 66549

Ion	Ratio	Lower	Upper
117	100		
119	92.0	76.2	114.2
121	31.5	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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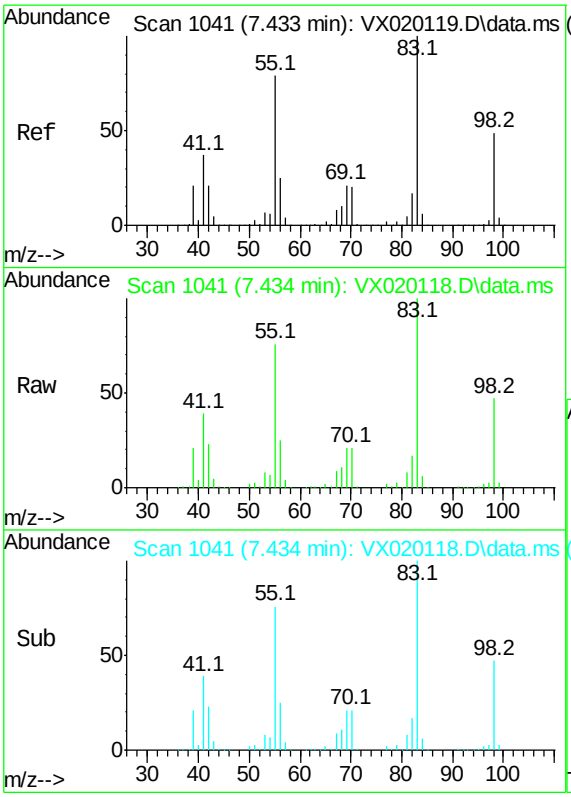
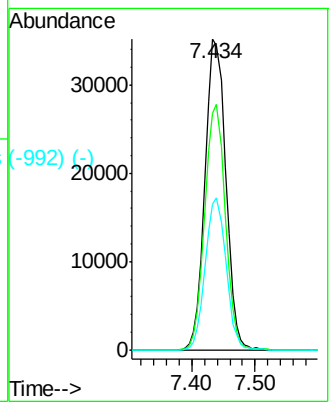
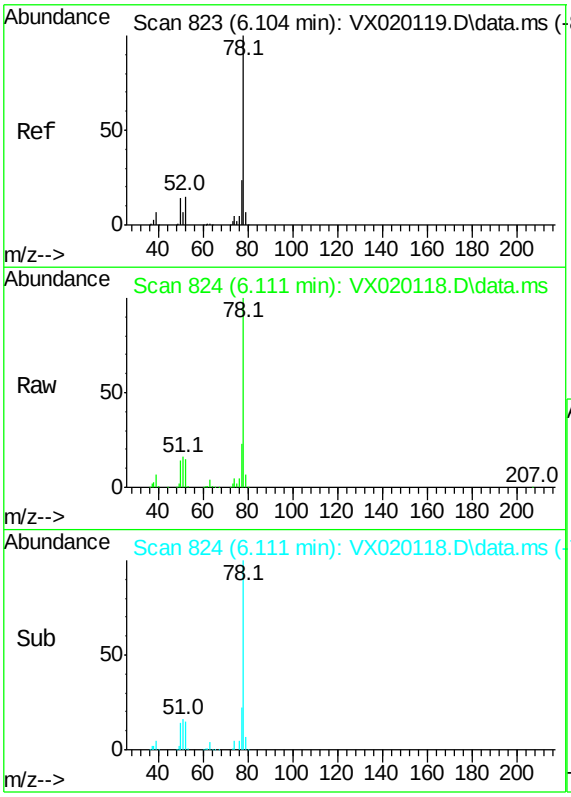


#39
Methylcyclohexane
Concen: 17.44 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 83 Resp: 77166

Ion	Ratio	Lower	Upper
83	100		
55	76.3	58.9	88.3
98	46.8	38.1	57.1

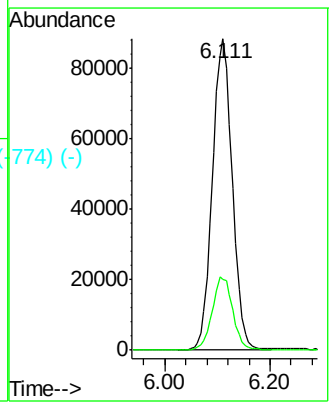




#40
Benzene
Concen: 19.43 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 78 Resp: 230779

Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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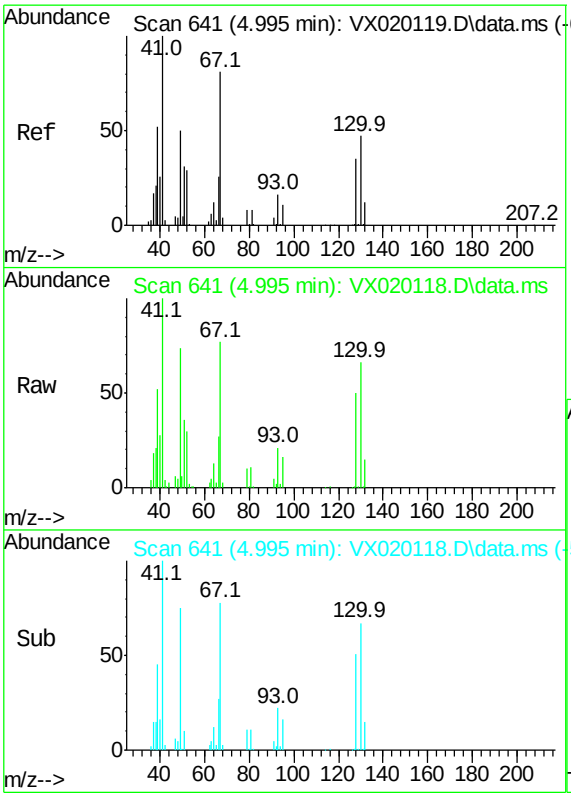
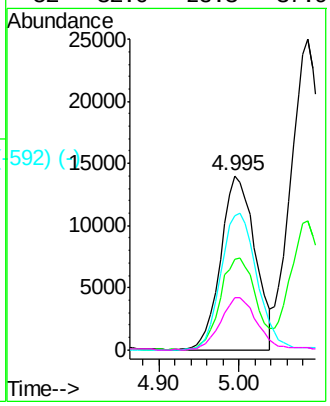
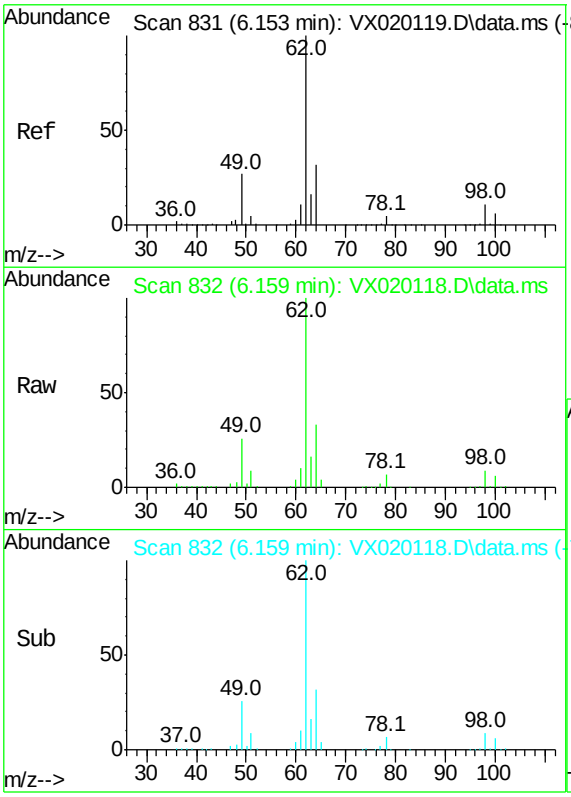


#41
Methacrylonitrile
Concen: 19.05 ug/l
RT: 4.995 min Scan# 641
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 41 Resp: 41522

Ion	Ratio	Lower	Upper
41	100		
39	54.2	42.5	63.7
67	83.2	65.0	97.6
52	32.0	25.3	37.9

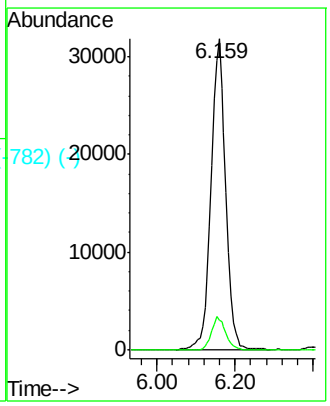




#42
1,2-Dichloroethane
Concen: 20.06 ug/l
RT: 6.159 min Scan# 832
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 62 Resp: 81923

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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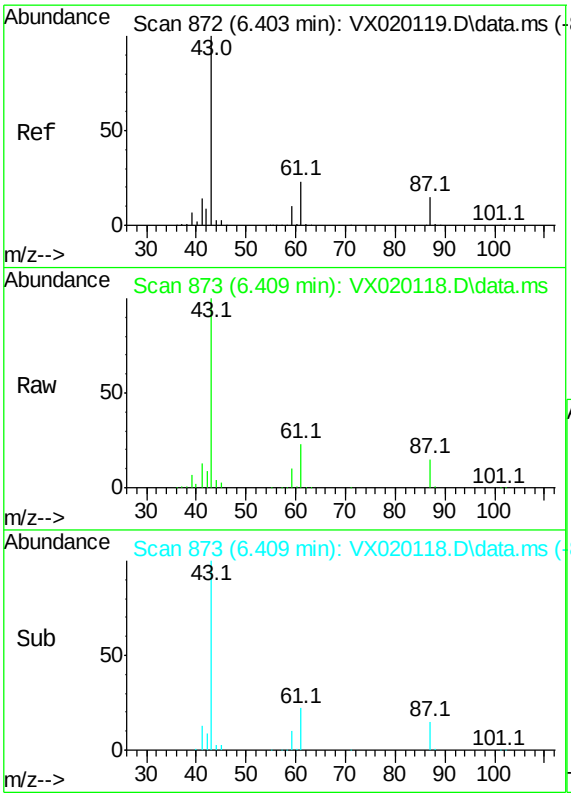
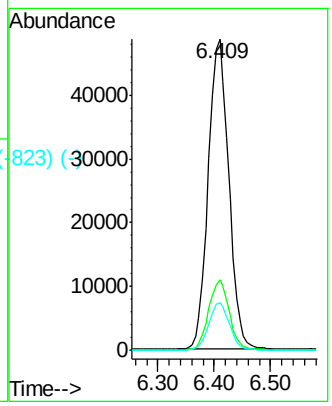
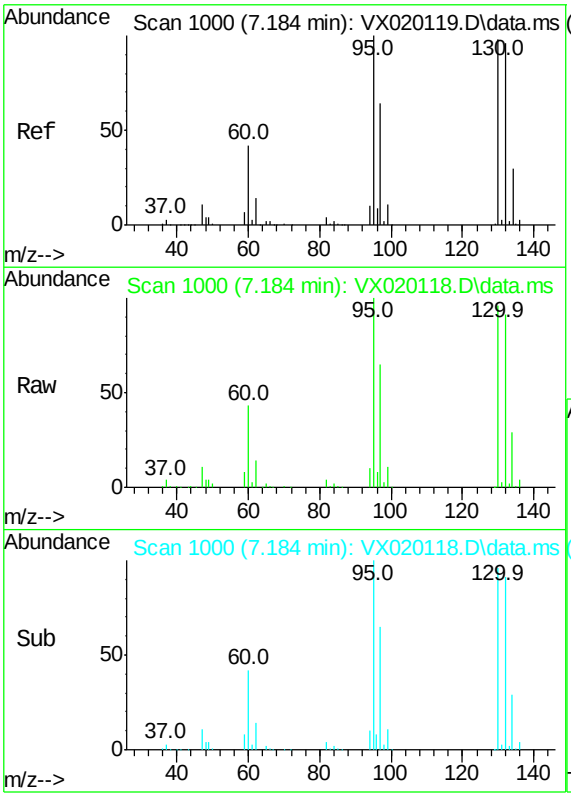


#43
Isopropyl Acetate
Concen: 19.04 ug/l
RT: 6.409 min Scan# 873
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 122463

Ion	Ratio	Lower	Upper
43	100		
61	22.5	18.2	27.4
87	15.0	12.5	18.7

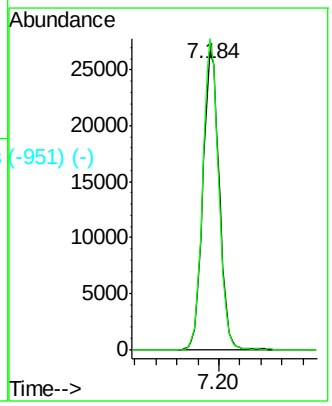




#44
Trichloroethene
Concen: 18.65 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:130 Resp: 57435

Ion	Ratio	Lower	Upper
130	100		
95	104.3	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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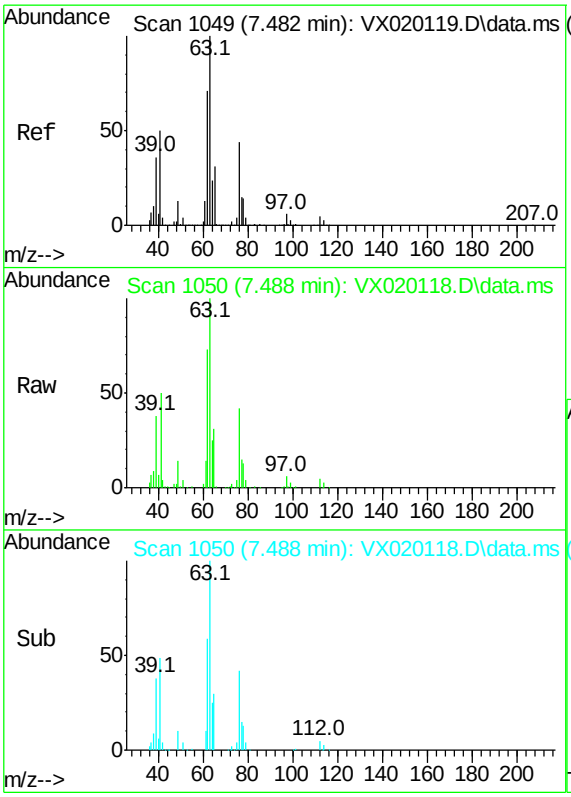
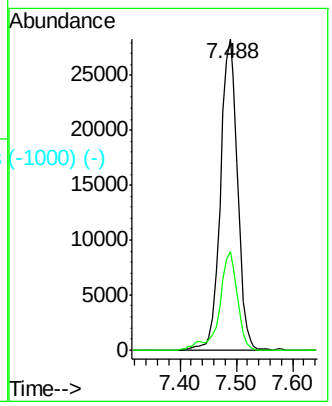
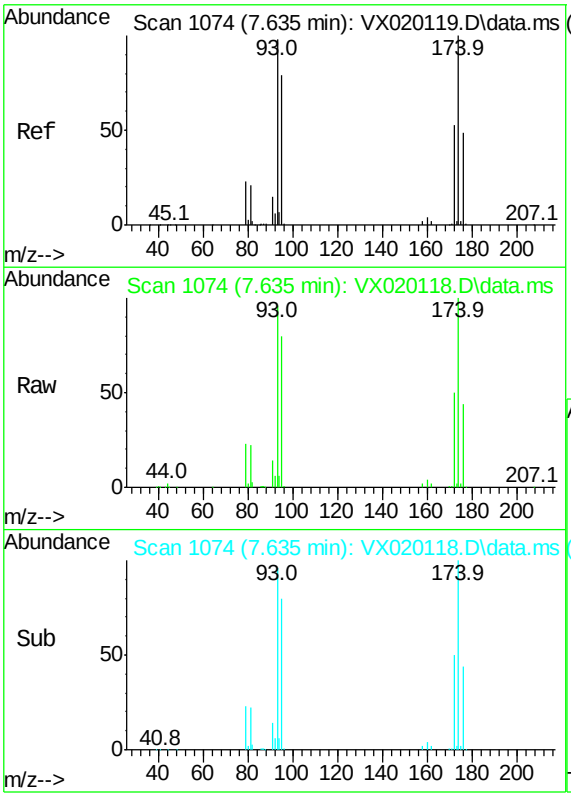


#45
1,2-Dichloropropane
Concen: 19.82 ug/l
RT: 7.488 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 63 Resp: 59240

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.7	38.5

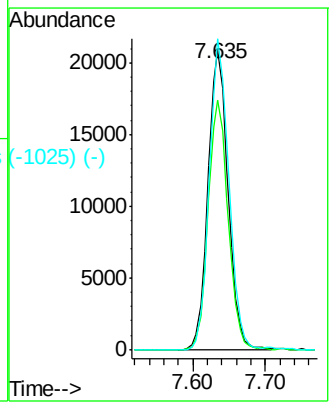




#46
Dibromomethane
Concen: 19.61 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 93 Resp: 39632

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.8	100.2
174	101.7	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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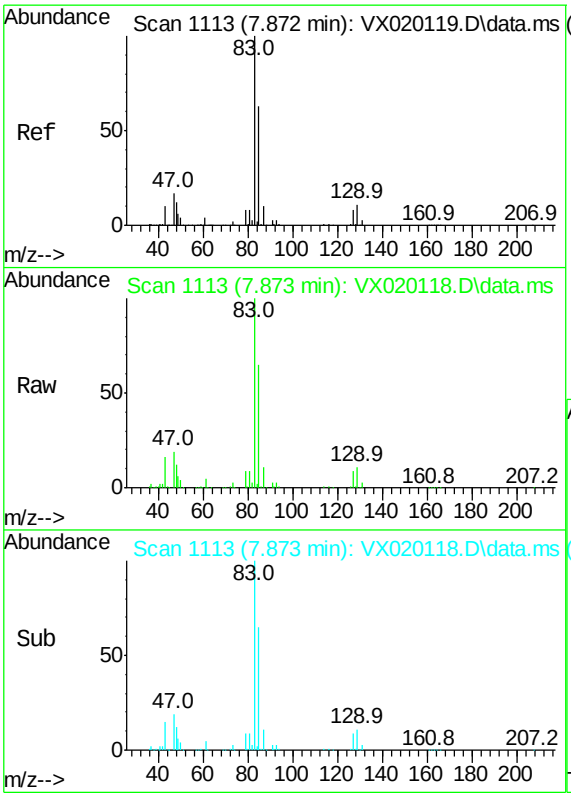
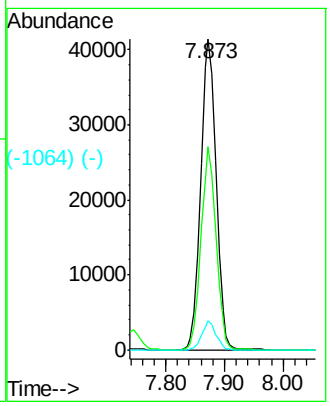
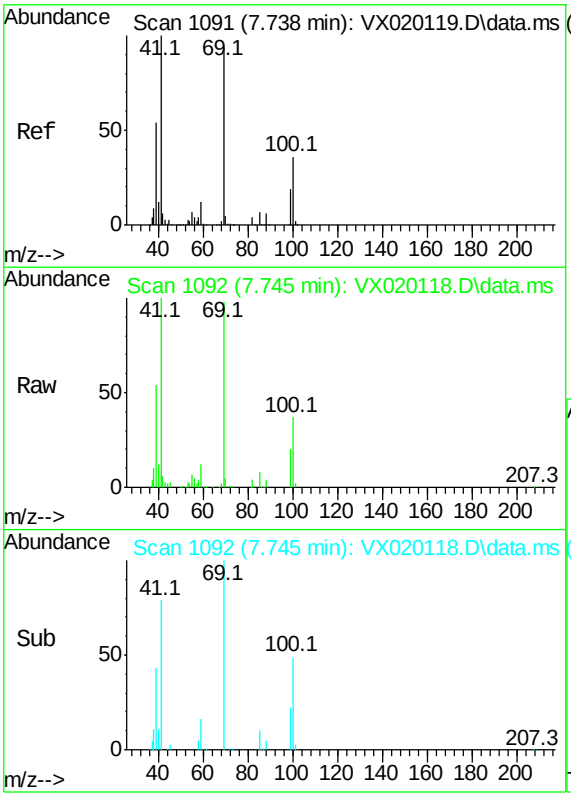


#47
Bromodichloromethane
Concen: 19.04 ug/l
RT: 7.873 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 83 Resp: 75932

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.4	77.0
127	9.2	6.8	10.2

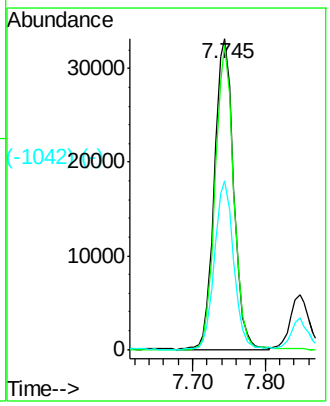




#48
Methyl methacrylate
Concen: 19.12 ug/l
RT: 7.745 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 41 Resp: 60534

Ion	Ratio	Lower	Upper
41	100		
69	93.9	76.0	114.0
39	53.9	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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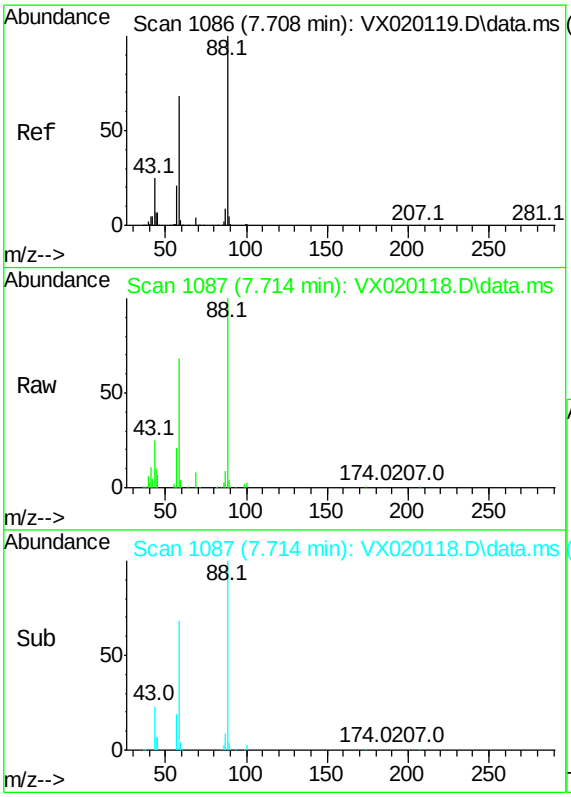
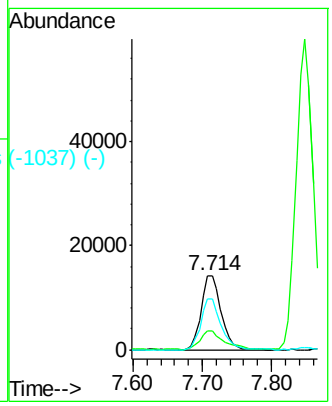
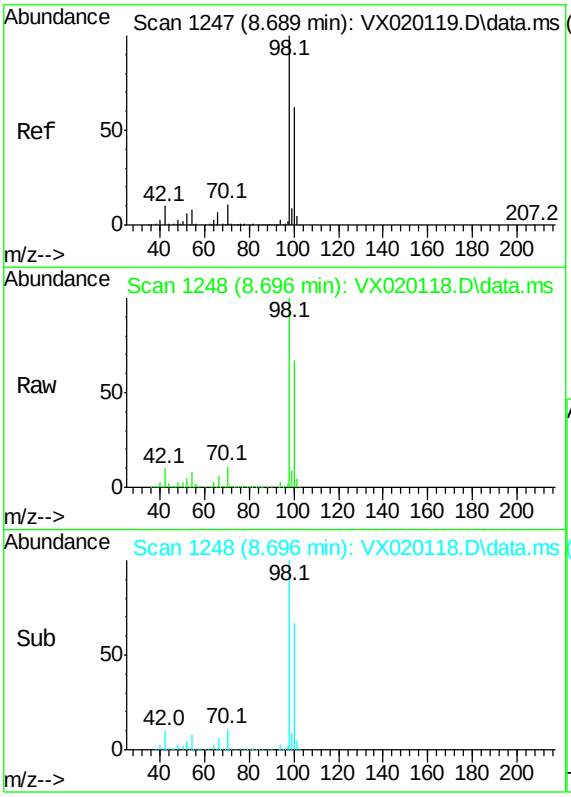


#49
1,4-Dioxane
Concen: 369.33 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 88 Resp: 28042

Ion	Ratio	Lower	Upper
88	100		
43	29.6	23.2	34.8
58	70.6	55.0	82.4

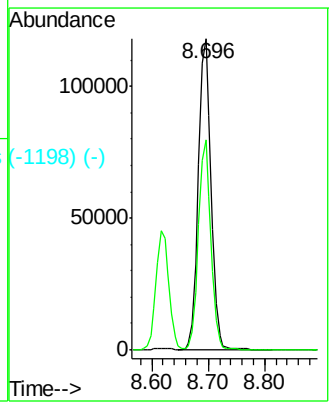




#50
Toluene-d8
Concen: 17.68 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 98 Resp: 184407

Ion	Ratio	Lower	Upper
98	100		
100	66.2	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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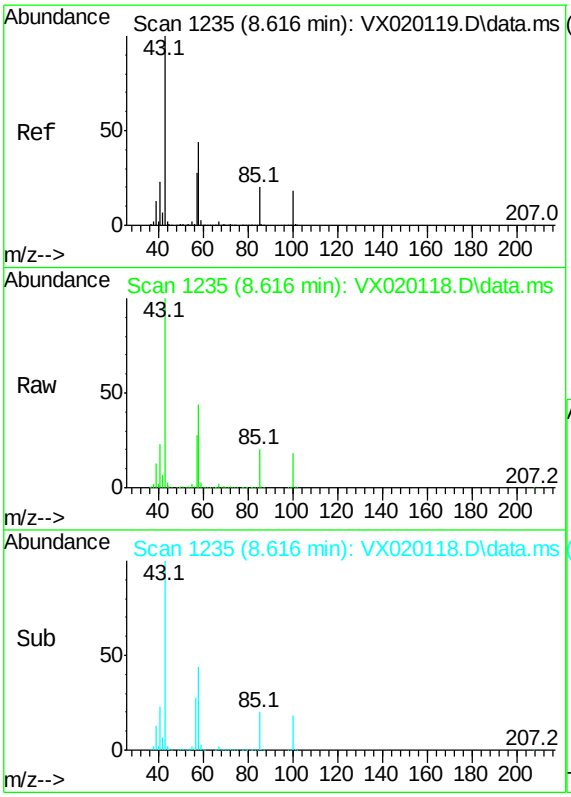
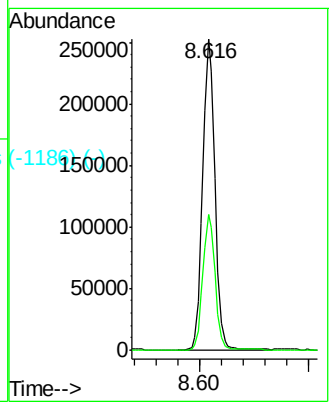
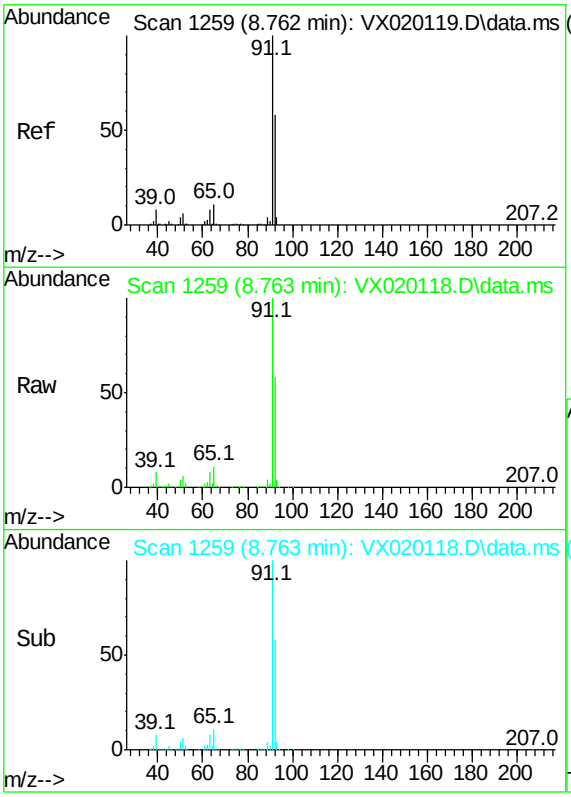


#51
4-Methyl-2-Pentanone
Concen: 99.61 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 392217

Ion	Ratio	Lower	Upper
43	100		
58	43.5	35.4	53.0

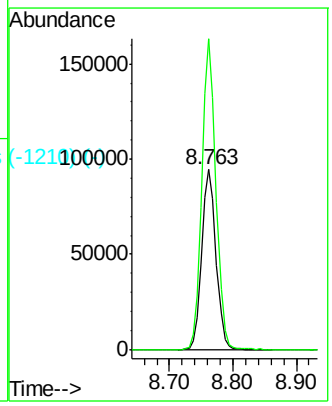




#52
Toluene
Concen: 19.36 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 92 Resp: 143180

Ion	Ratio	Lower	Upper
92	100		
91	170.2	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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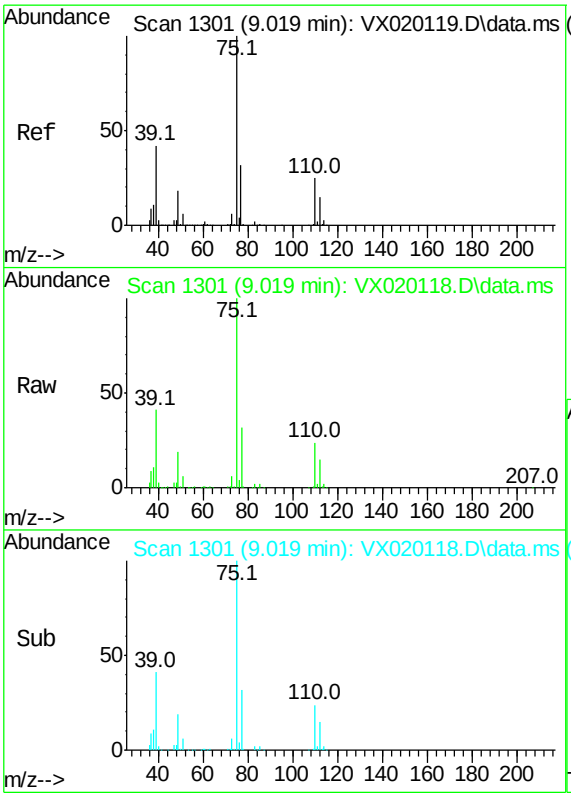
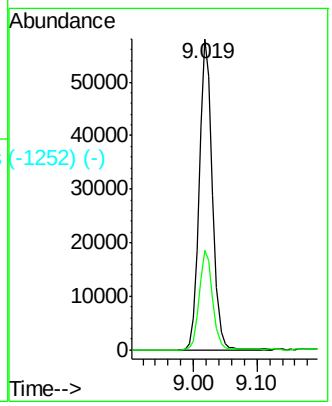
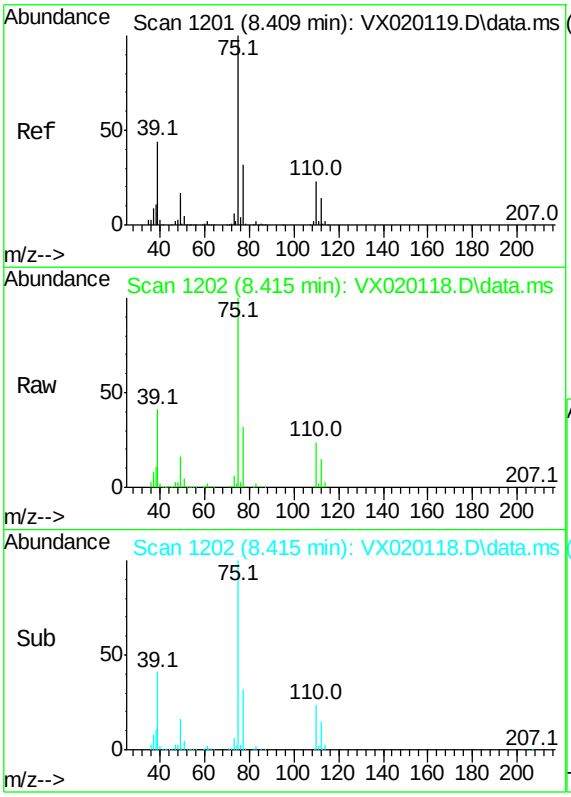


#53
t-1,3-Dichloropropene
Concen: 18.53 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 75 Resp: 81873

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.9	37.3

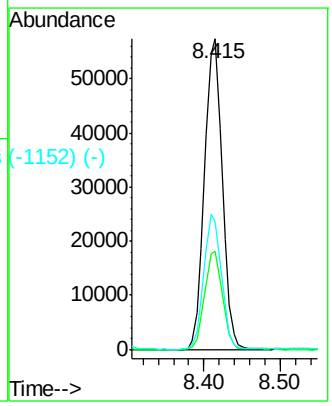




#54
cis-1,3-Dichloropropene
Concen: 19.24 ug/l
RT: 8.415 min Scan# 1202
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 75 Resp: 92588

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5
39	40.9	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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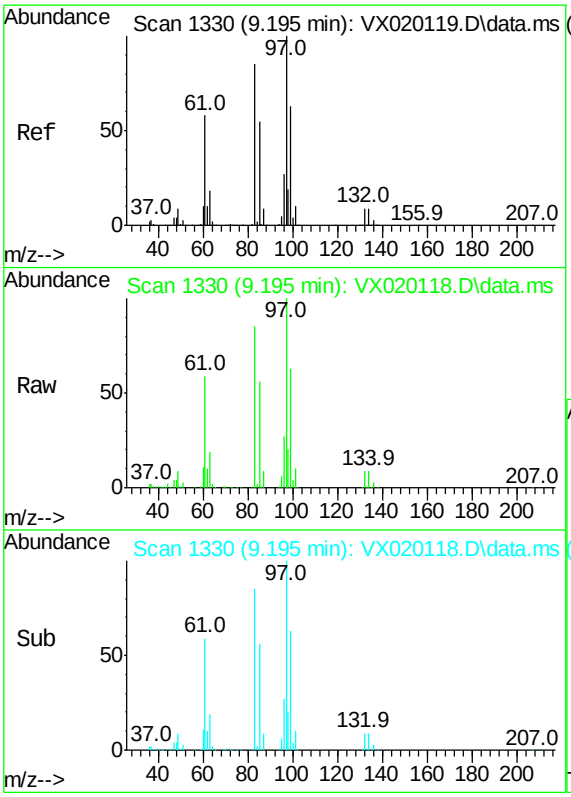
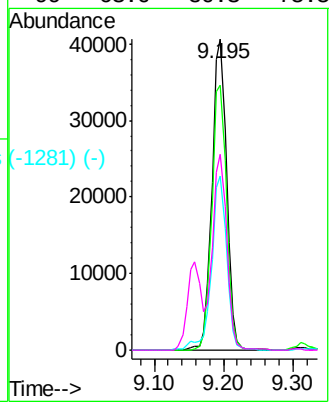
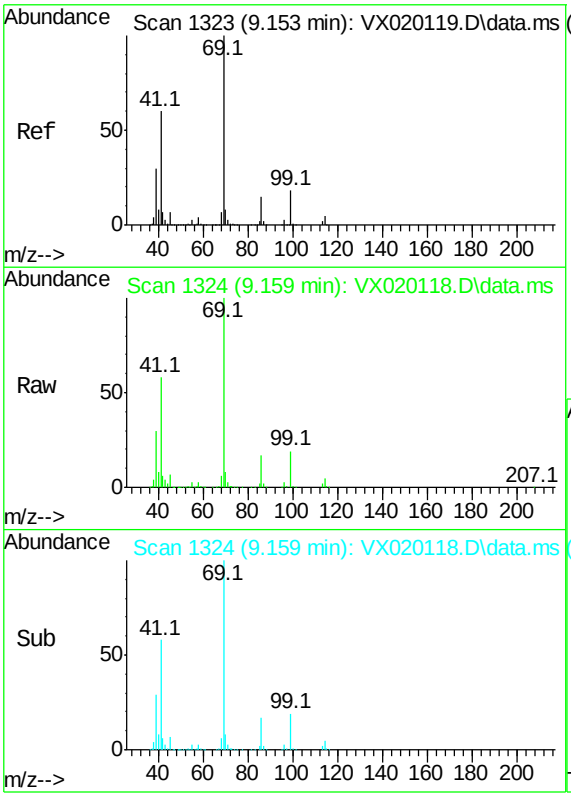


#55
1,1,2-Trichloroethane
Concen: 19.67 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 97 Resp: 59270

Ion	Ratio	Lower	Upper
97	100		
83	85.0	69.3	103.9
85	56.1	44.3	66.5
99	63.0	50.3	75.5

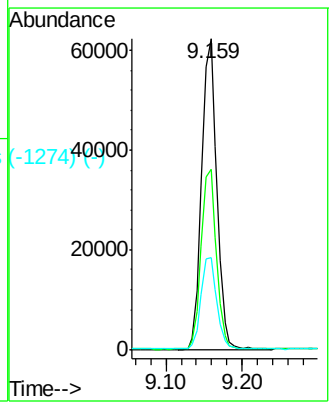




#56
Ethyl methacrylate
Concen: 18.82 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 69 Resp: 85647

Ion	Ratio	Lower	Upper
69	100		
41	59.1	46.8	70.2
39	30.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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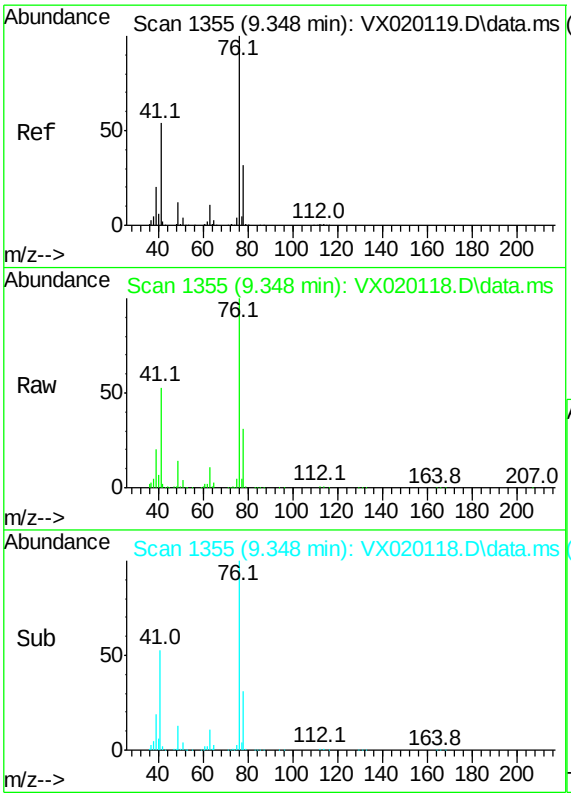
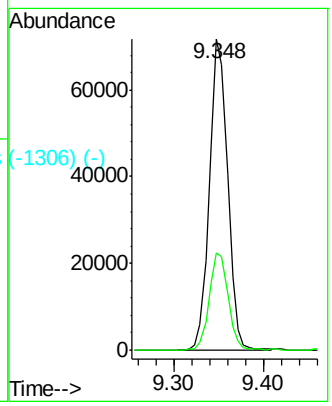
12/21/2020 3:57:55 PM

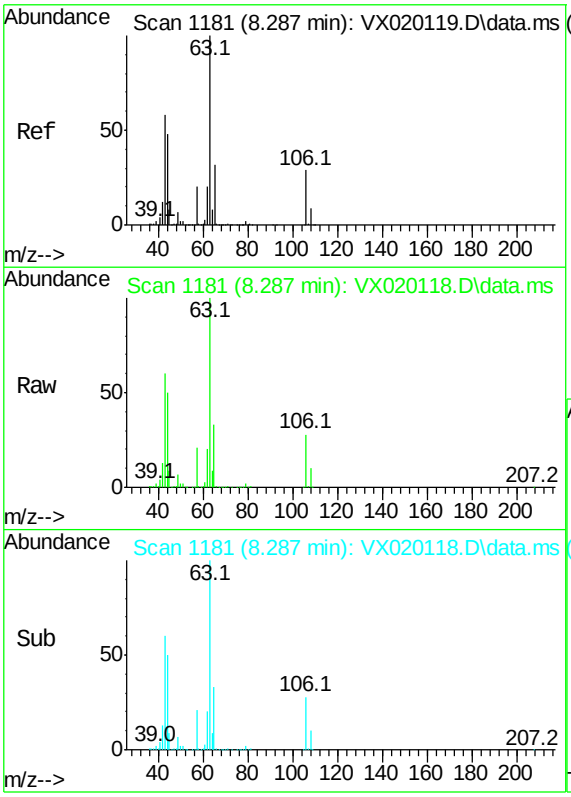


#57
1,3-Dichloropropane
Concen: 19.67 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 76 Resp: 101411

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

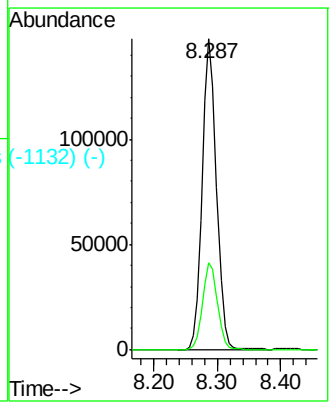




#58
2-Chloroethyl Vinyl ether
Concen: 93.12 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 63 Resp: 224154

Ion	Ratio	Lower	Upper
63	100		
106	28.8	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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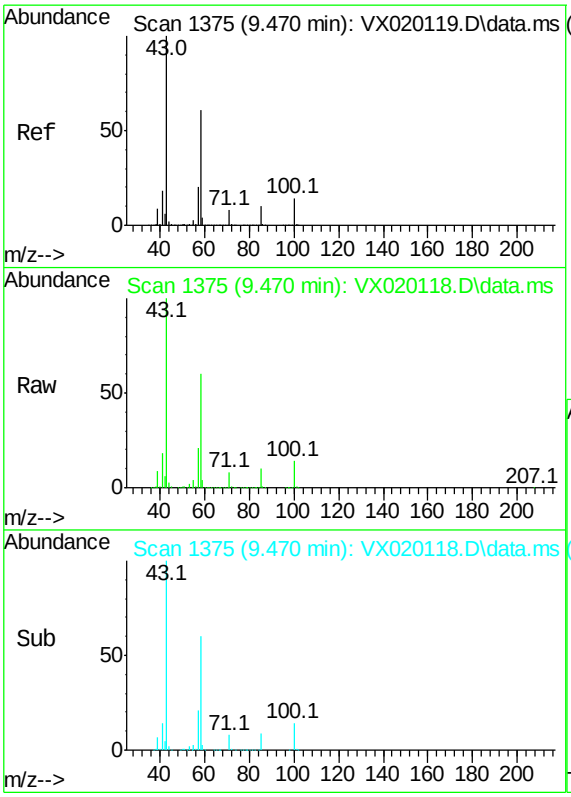
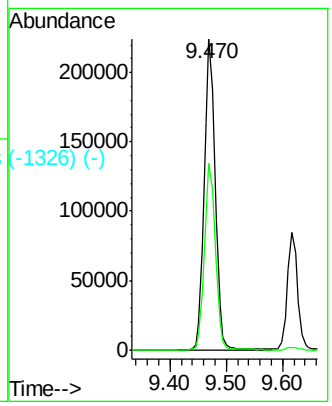
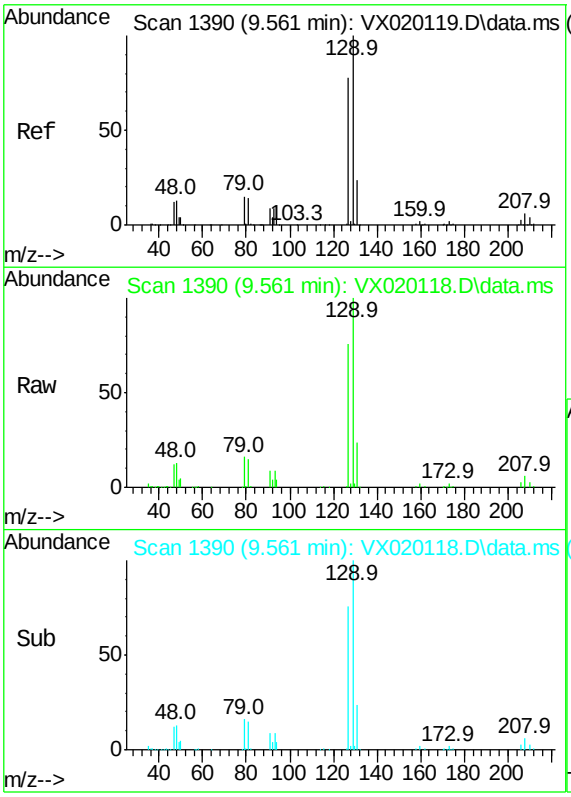


#58
2-Hexanone
Concen: 98.71 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 299827

Ion	Ratio	Lower	Upper
43	100		
58	60.4	30.9	92.8

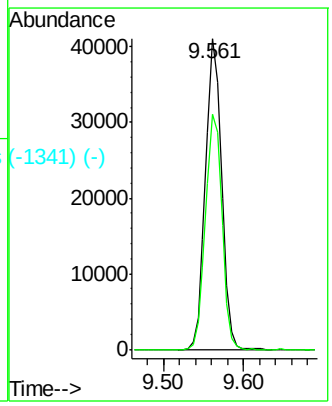




#60
Dibromochloromethane
Concen: 18.82 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:129 Resp: 57319

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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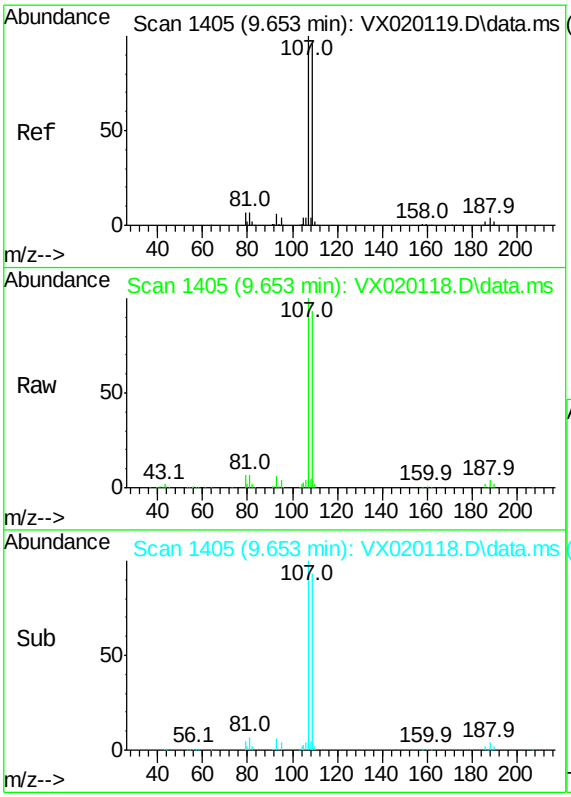
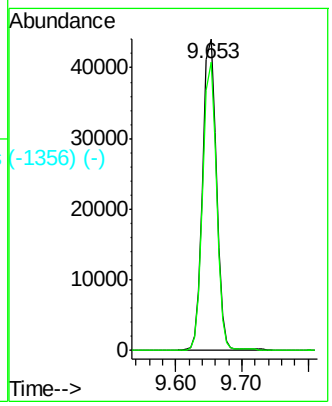
12/21/2020 3:57:55 PM

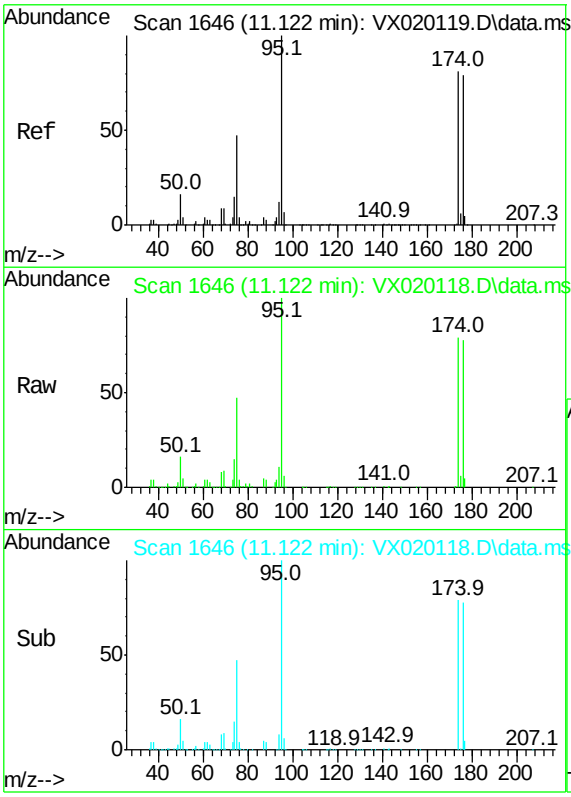


#61
1,2-Dibromoethane
Concen: 19.51 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:107 Resp: 62415

Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.8	113.6

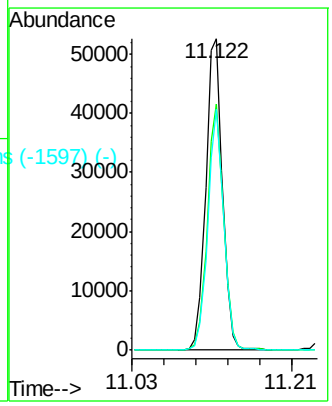




#68
4-Bromofluorobenzene
Concen: 17.17 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 95 Resp: 68207

Ion	Ratio	Lower	Upper
95	100		
174	76.6	0.0	154.6
176	73.0	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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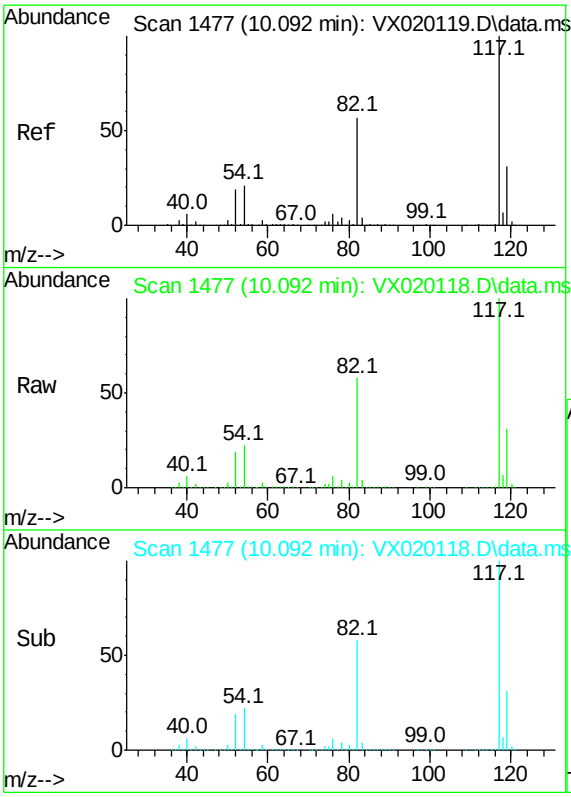
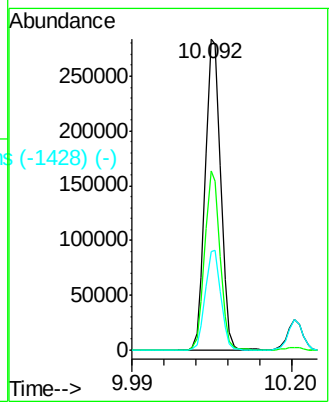
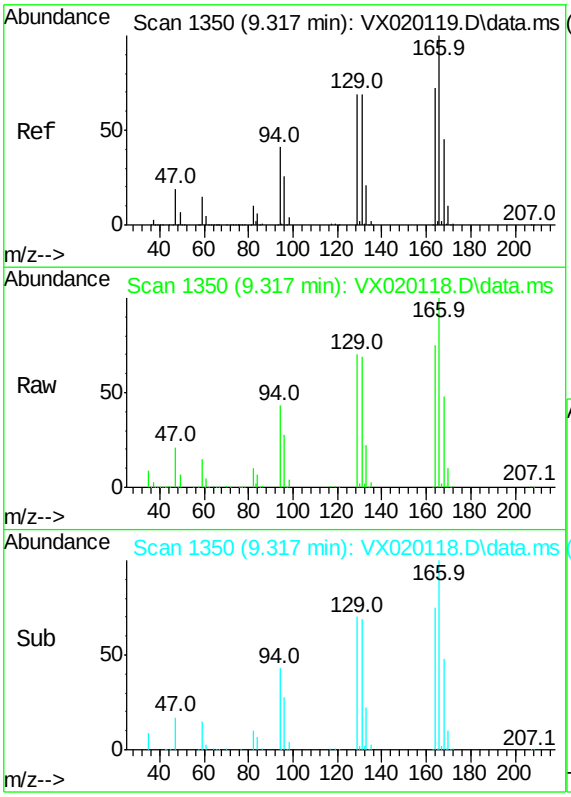


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:117 Resp: 395989

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.4	71.2
119	31.5	26.6	39.8

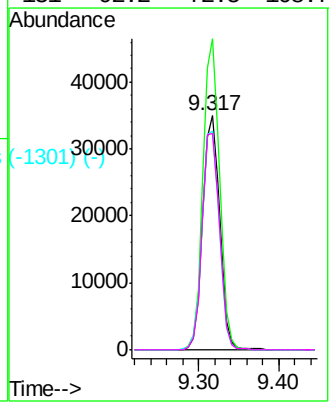




#64
Tetrachloroethene
Concen: 19.24 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:164 Resp: 51016

Ion	Ratio	Lower	Upper
164	100		
166	133.0	103.4	155.2
129	93.8	70.8	106.2
131	92.2	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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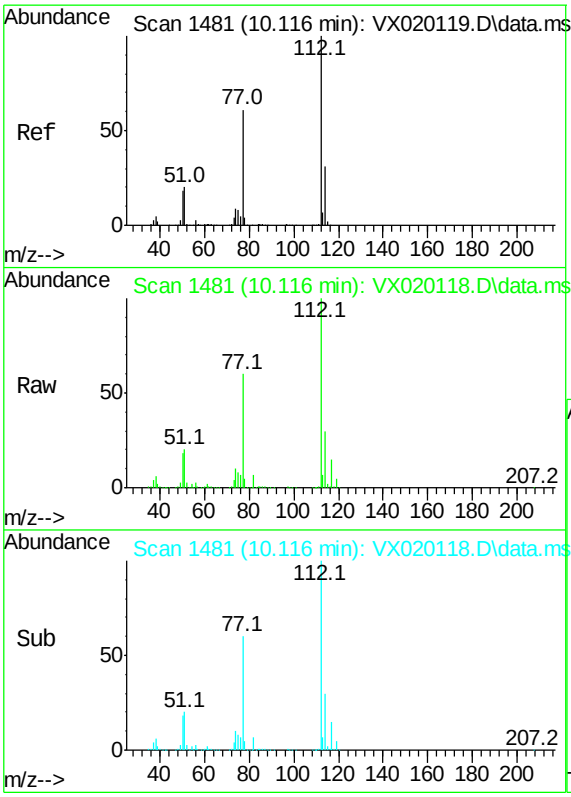
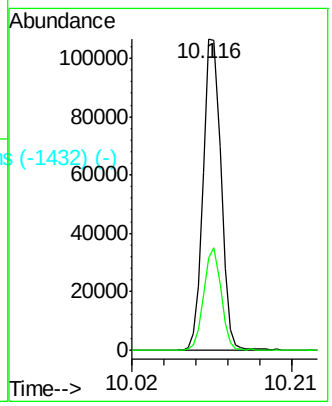
12/21/2020 3:57:55 PM

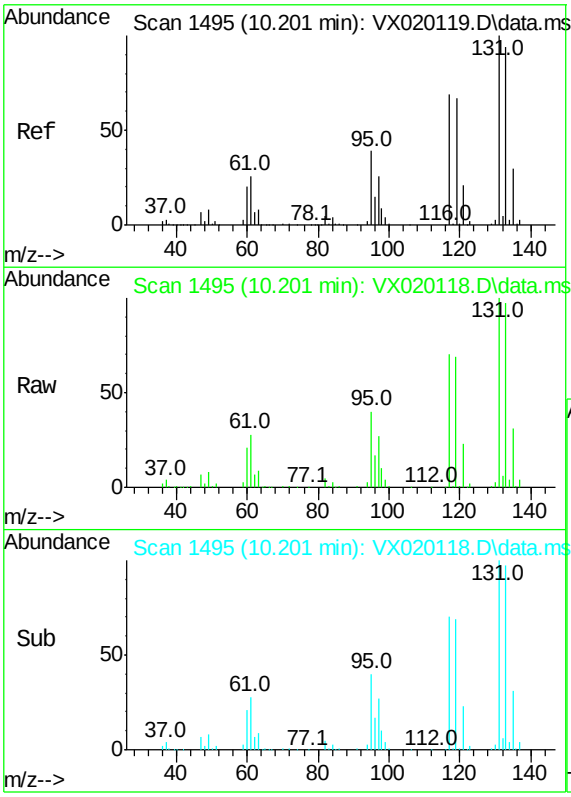


#65
Chlorobenzene
Concen: 18.86 ug/l
RT: 10.116 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:112 Resp: 149731

Ion	Ratio	Lower	Upper
112	100		
114	29.7	25.8	38.6

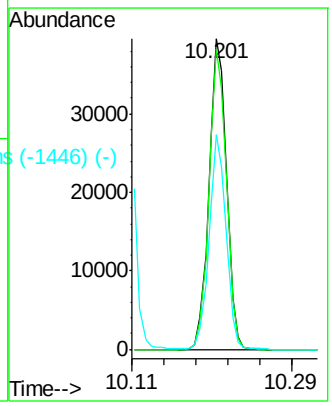




#66
1,1,1,2-Tetrachloroethane
Concen: 18.76 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:131 Resp: 53618

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.7	143.1
119	67.3	32.1	96.5



Instrument :
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ClientSampleId :
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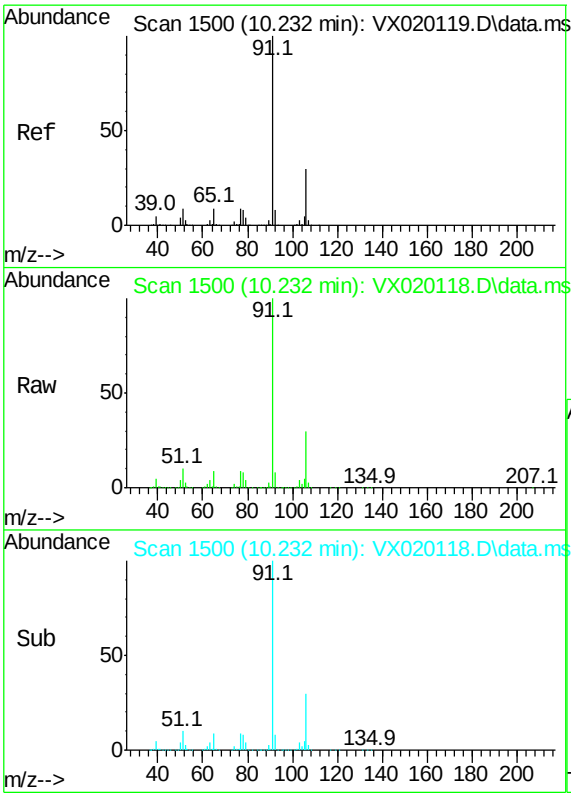
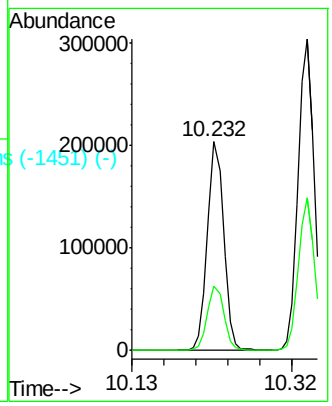
12/21/2020 3:57:55 PM

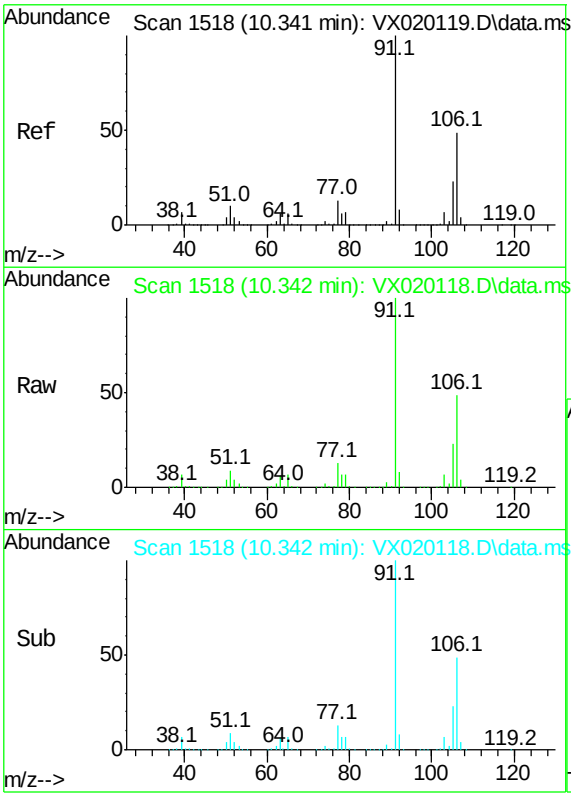


#67
Ethyl Benzene
Concen: 18.54 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 91 Resp: 259747

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.6	37.0

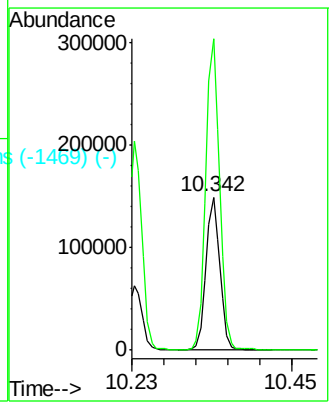




#68
m/p-Xylenes
Concen: 37.33 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:106 Resp: 197210

Ion	Ratio	Lower	Upper
106	100		
91	204.7	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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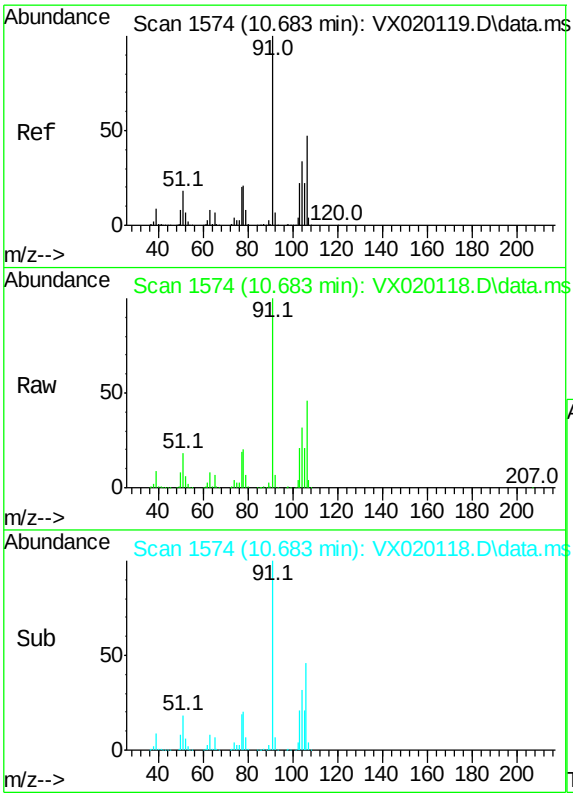
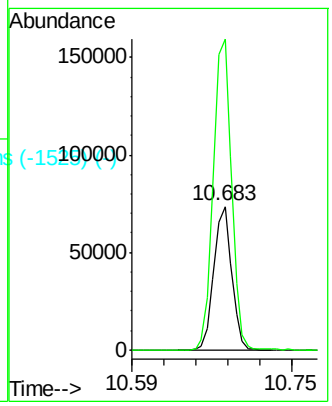
12/21/2020 3:57:55 PM

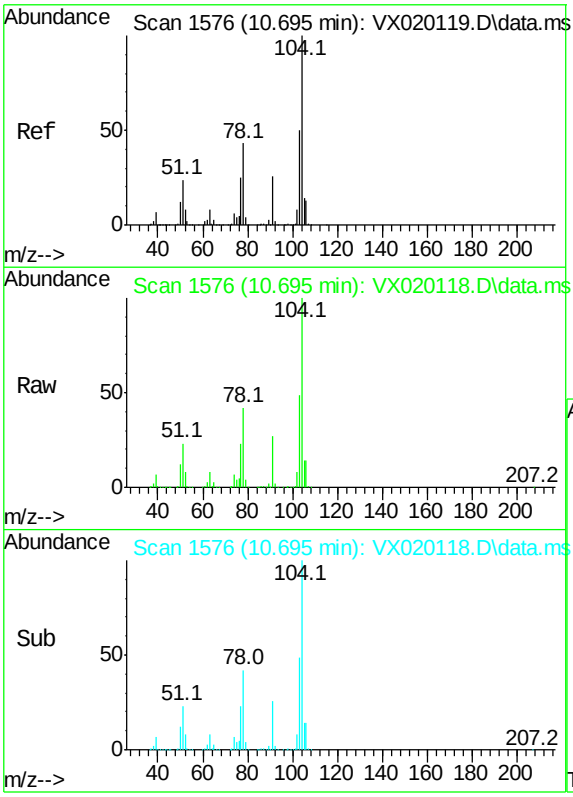


#69
o-Xylene
Concen: 18.39 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:106 Resp: 93726

Ion	Ratio	Lower	Upper
106	100		
91	222.3	108.1	324.2

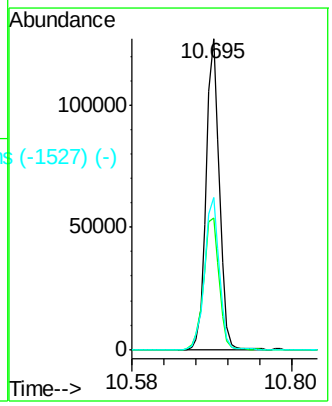




#70
Styrene
Concen: 18.73 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:104 Resp: 161339

Ion	Ratio	Lower	Upper
104	100		
78	49.7	40.0	60.0
103	54.2	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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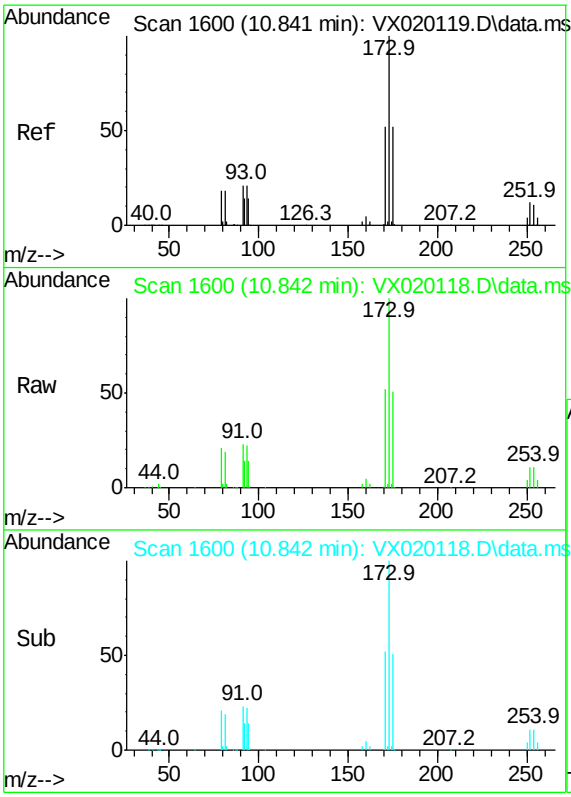
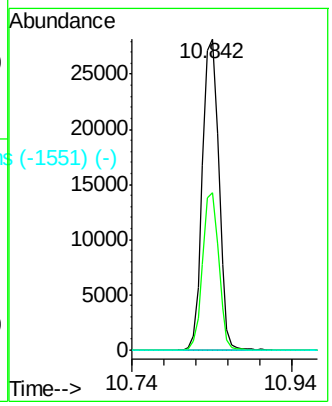
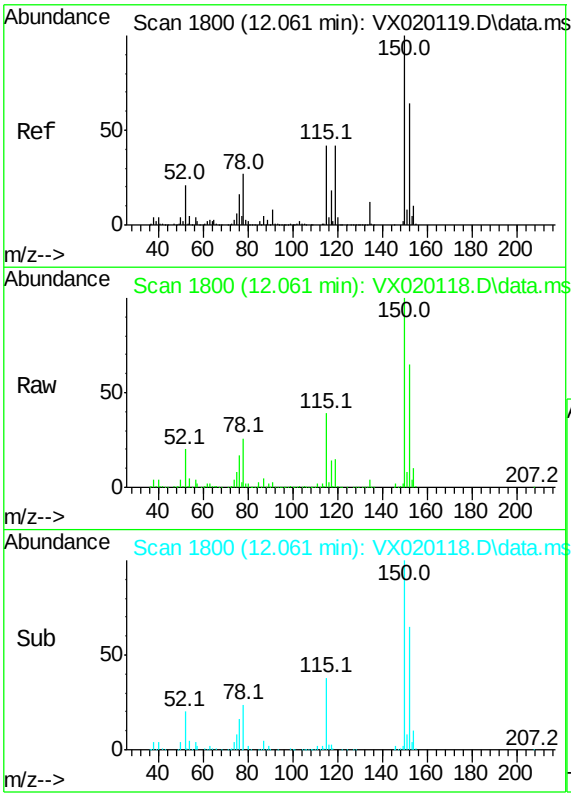


#71
Bromoform
Concen: 17.90 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:173 Resp: 39924

Ion	Ratio	Lower	Upper
173	100		
175	49.5	23.9	71.8
254	0.0	0.1	0.1#

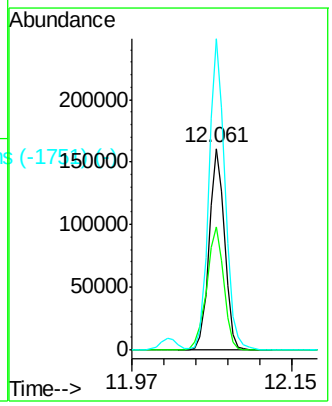




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:152 Resp: 191348

Ion	Ratio	Lower	Upper
152	100		
115	67.9	41.1	123.3
150	161.6	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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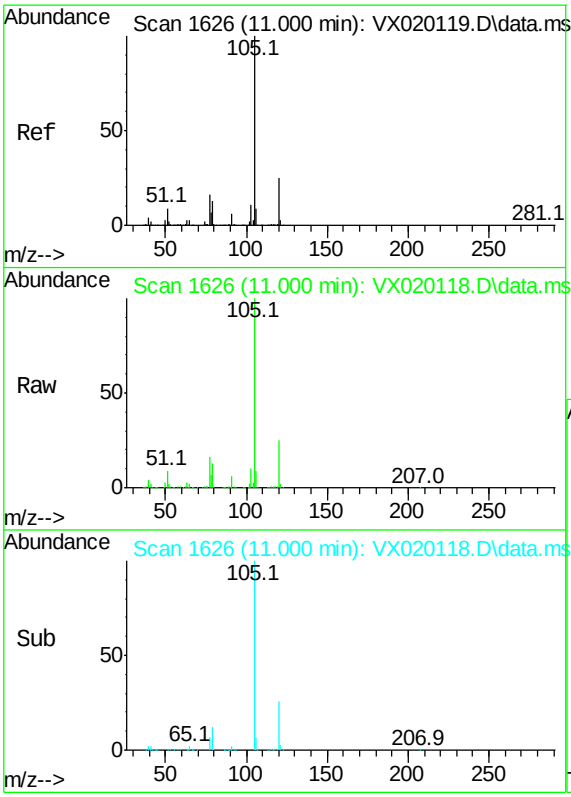
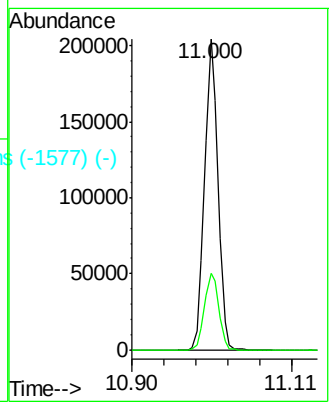
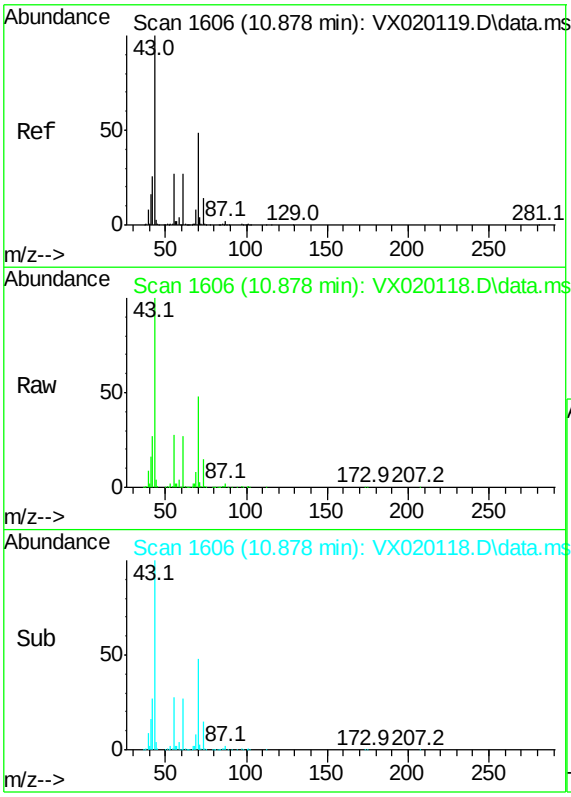


#73
Isopropylbenzene
Concen: 18.88 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:105 Resp: 247233

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6

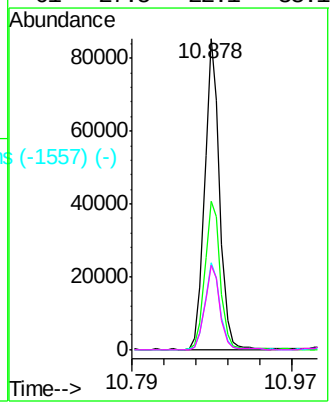




#74
N-amyl acetate
Concen: 18.50 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 43 Resp: 98531

Ion	Ratio	Lower	Upper
43	100		
70	49.5	39.0	58.6
55	28.5	21.5	32.3
61	27.5	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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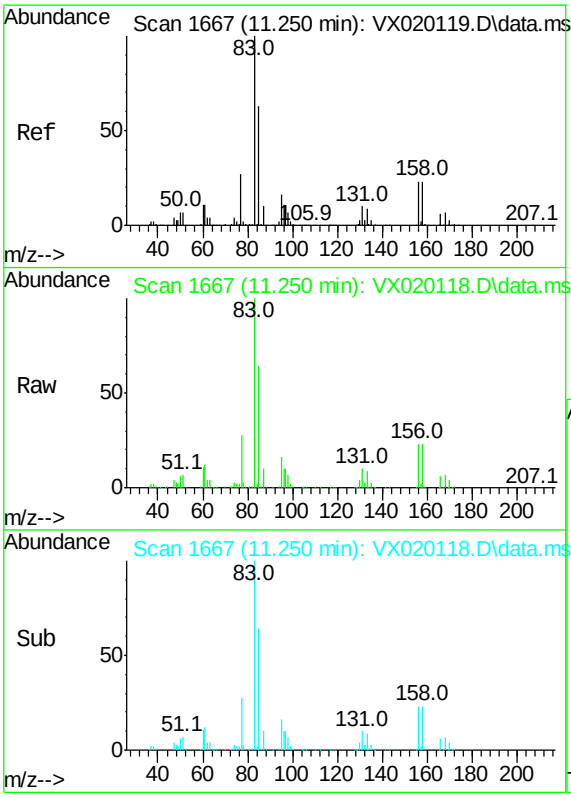
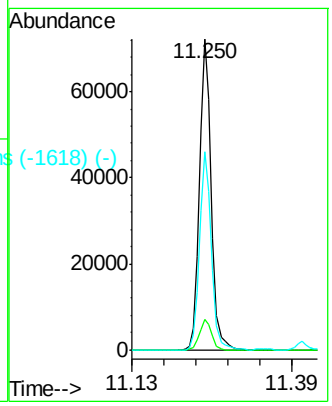
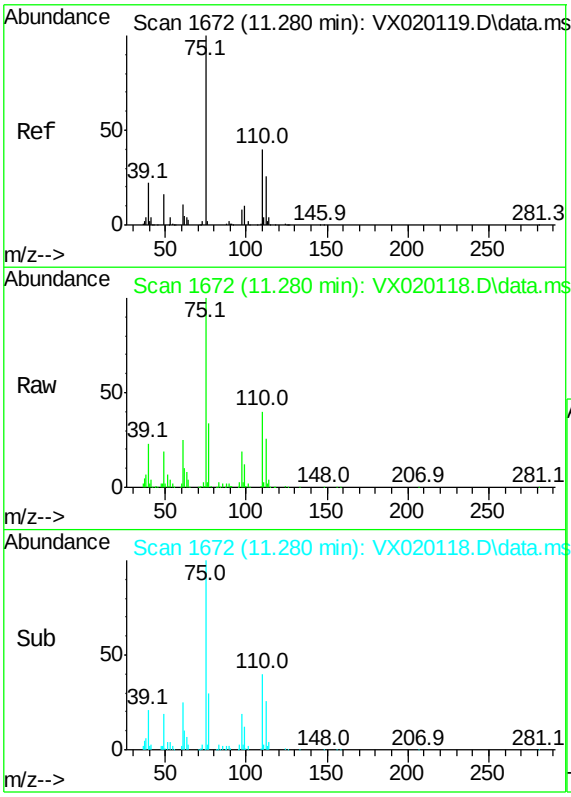


#75
1,1,2,2-Tetrachloroethane
Concen: 19.59 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 83 Resp: 91588

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.2
85	64.3	31.8	95.4

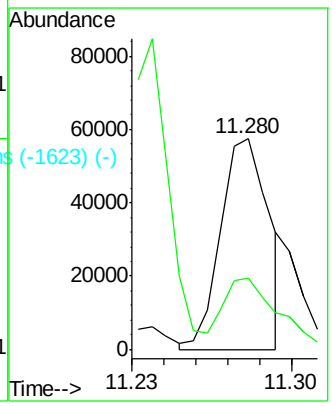




#76
1,2,3-Trichloropropane
Concen: 19.59 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 75 Resp: 85240

Ion	Ratio	Lower	Upper
75	100		
77	38.1	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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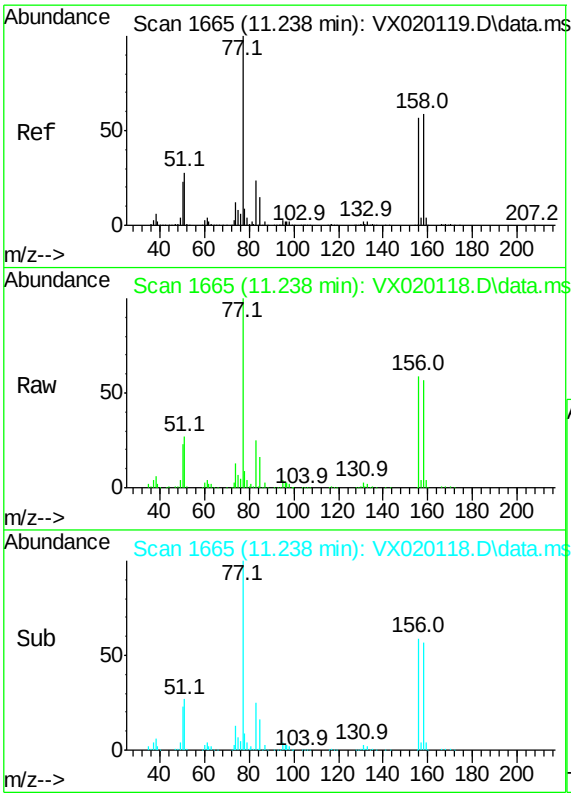
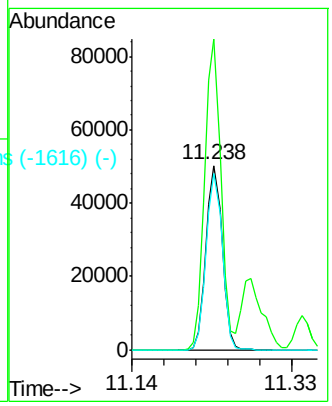
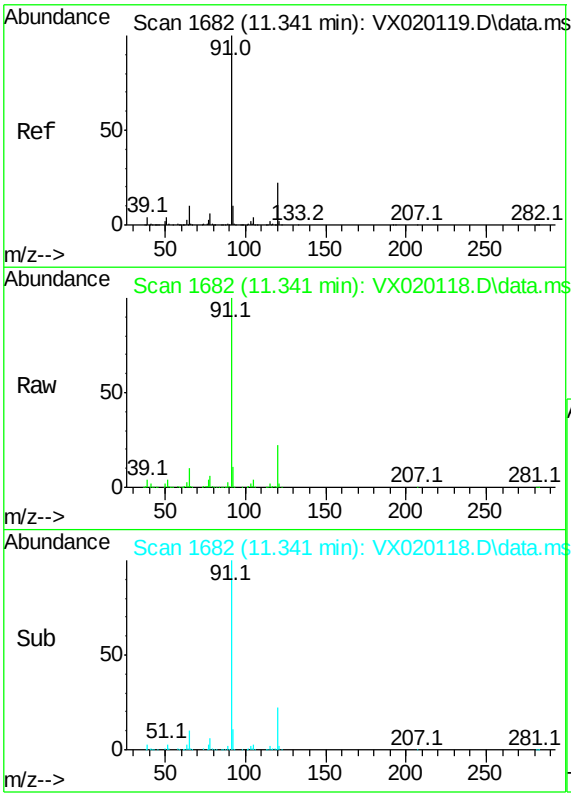


#77
Bromobenzene
Concen: 18.83 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:156 Resp: 63643

Ion	Ratio	Lower	Upper
156	100		
77	170.5	82.8	248.6
158	96.1	49.1	147.4

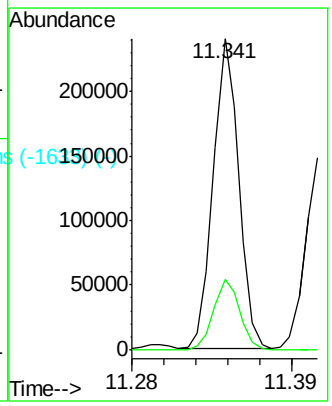




#78
n-propylbenzene
Concen: 18.67 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 91 Resp: 278837

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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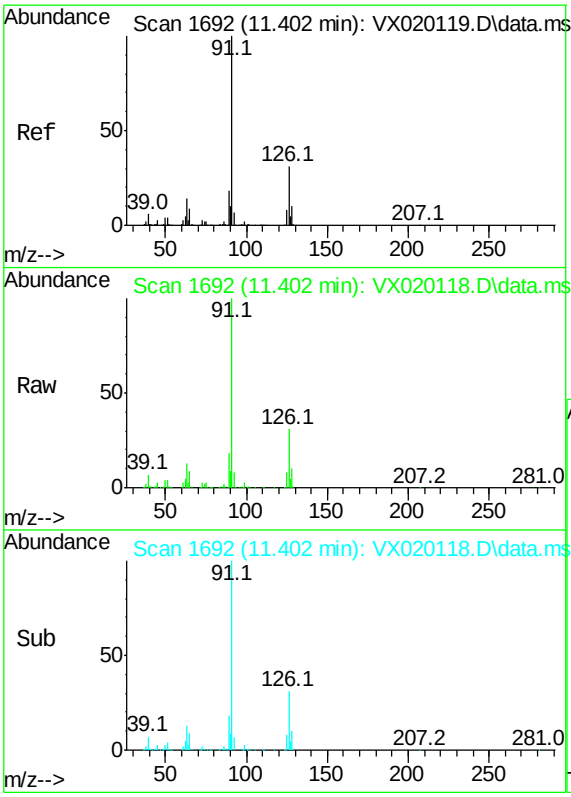
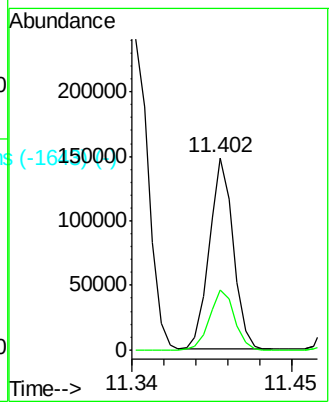
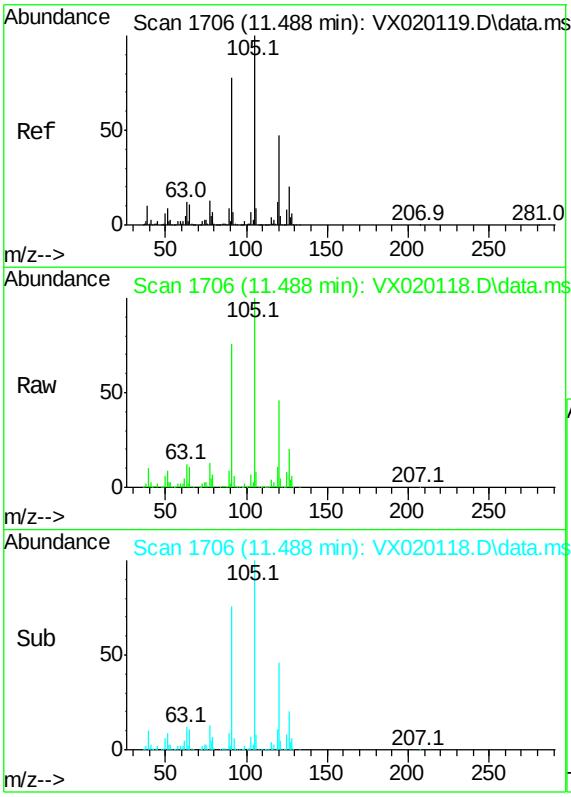


#70
2-Chlorotoluene
Concen: 19.19 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 91 Resp: 178150

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.6	49.8

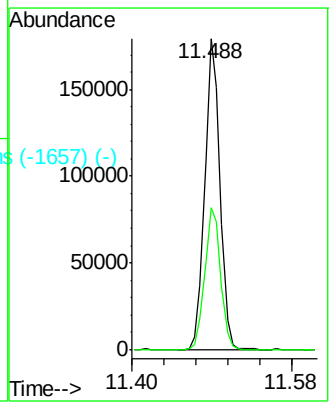




#89
1,3,5-Trimethylbenzene
Concen: 19.14 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:105 Resp: 211656

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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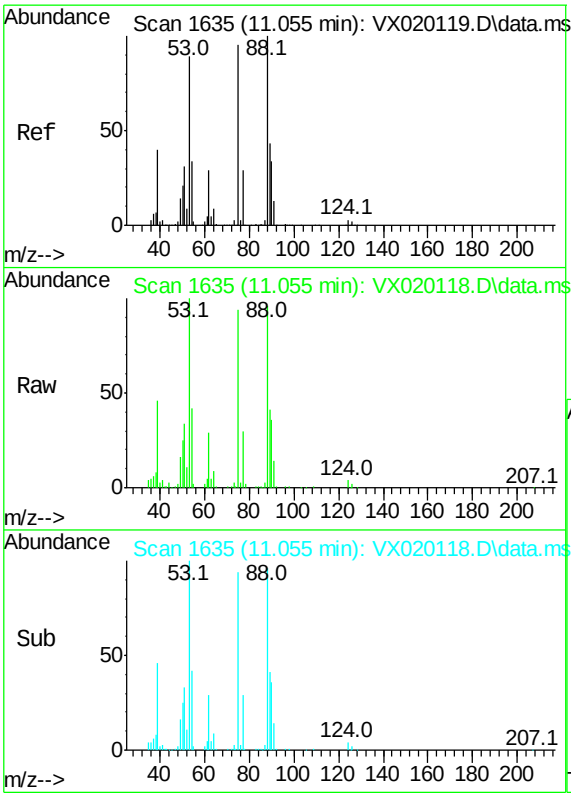
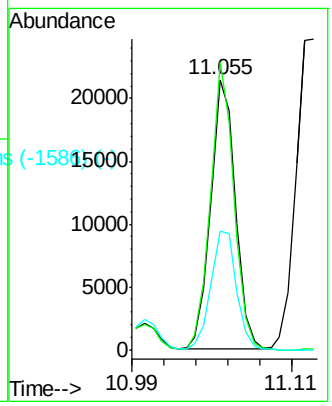
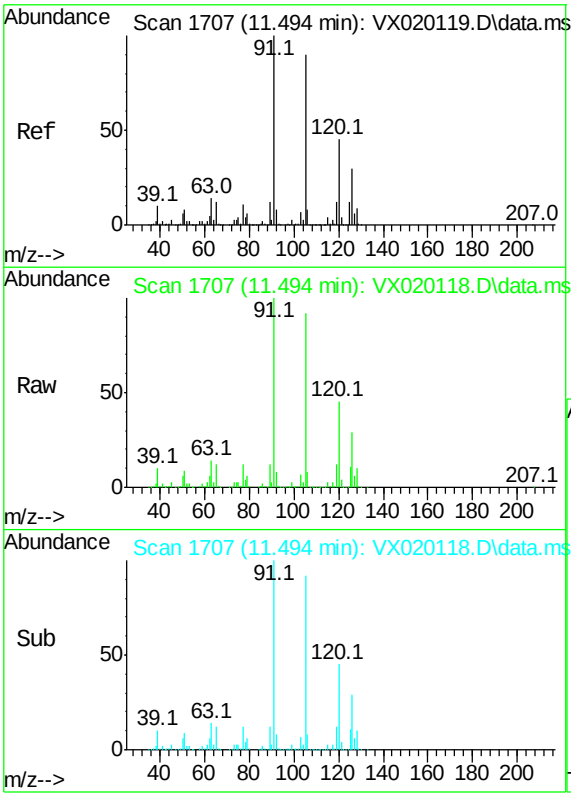


#81
trans-1,4-Dichloro-2-butene
Concen: 17.68 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 75 Resp: 26562

Ion	Ratio	Lower	Upper
75	100		
53	101.9	74.5	111.7
89	46.4	37.9	56.9

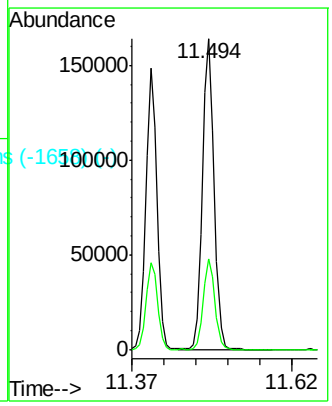




#88
4-Chlorotoluene
Concen: 18.69 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 91 Resp: 203432

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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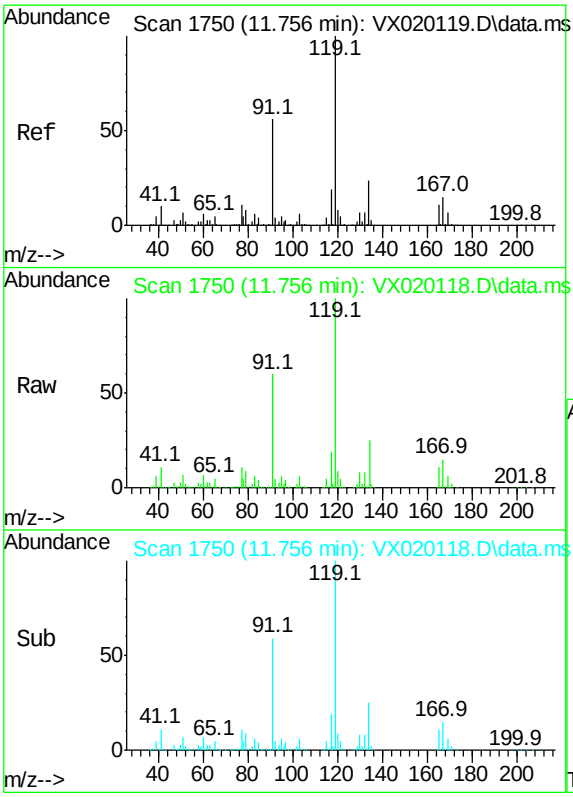
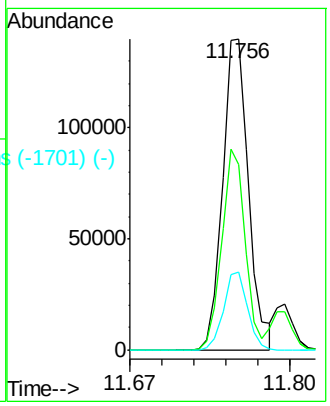
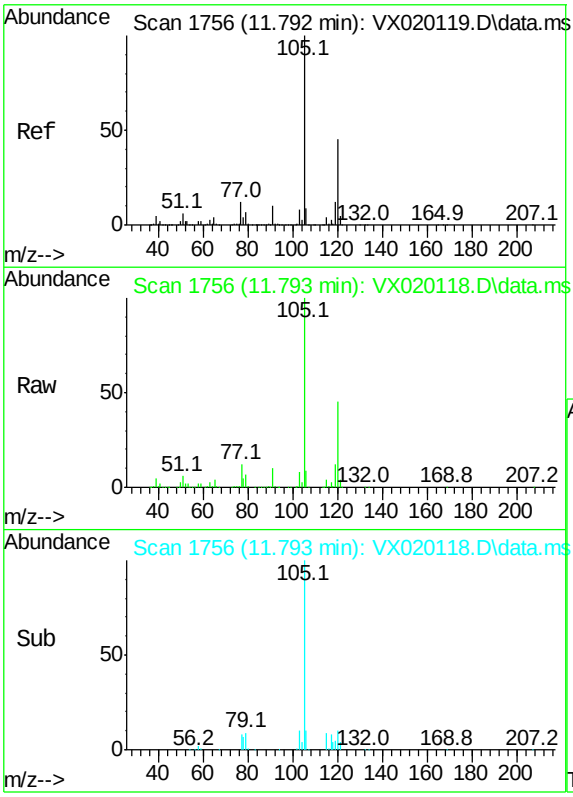


#83
tert-Butylbenzene
Concen: 18.21 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:119 Resp: 196115

Ion	Ratio	Lower	Upper
119	100		
91	58.2	27.9	83.7
134	23.2	11.3	33.9

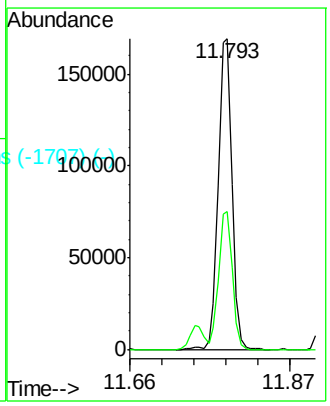




#84
1,2,4-Trimethylbenzene
Concen: 19.08 ug/l
RT: 11.793 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:105 Resp: 213677

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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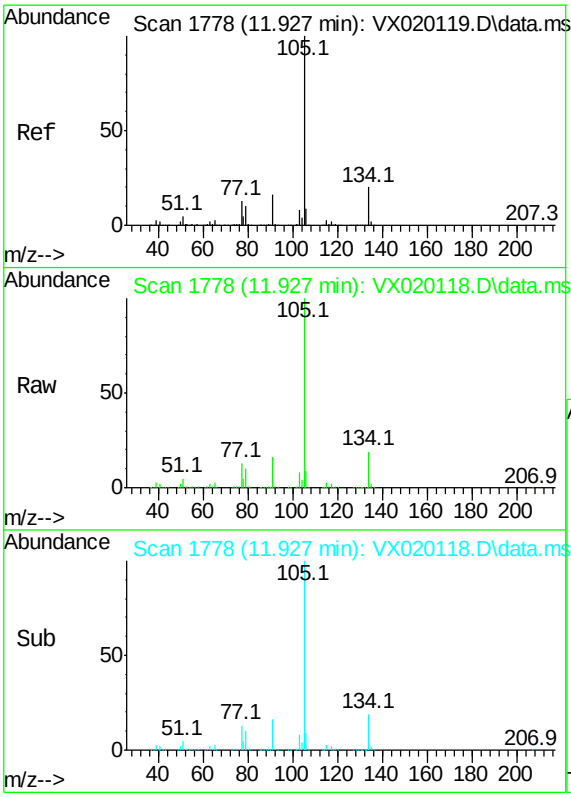
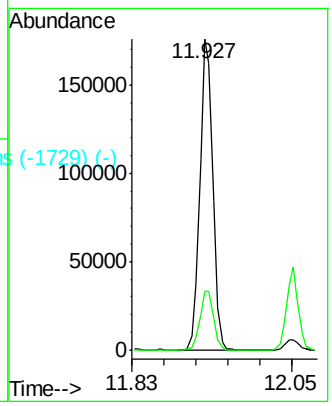
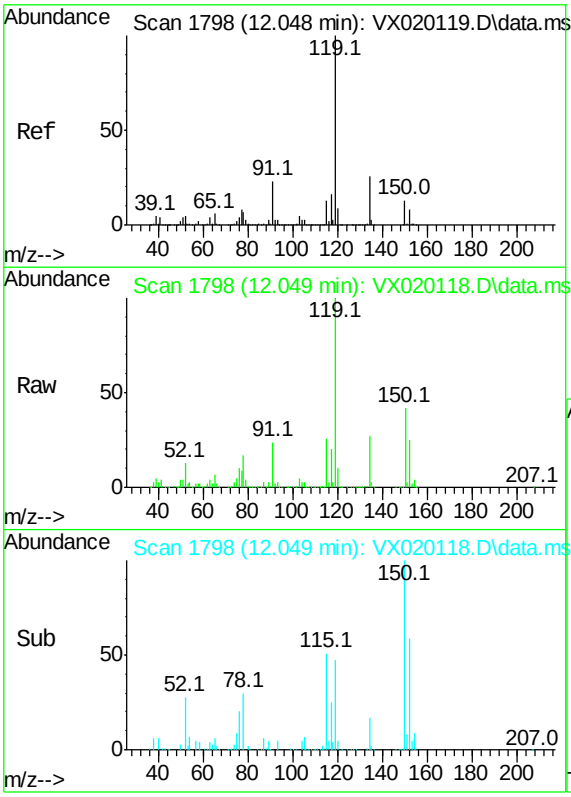


#85
sec-Butylbenzene
Concen: 18.11 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:105 Resp: 221677

Ion	Ratio	Lower	Upper
105	100		
134	19.7	10.0	29.8

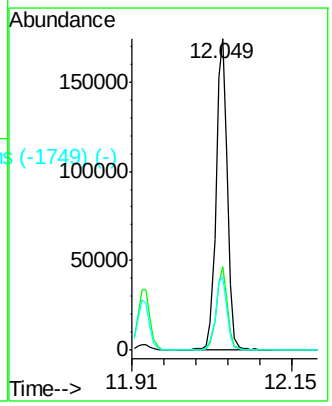




#86
p-Isopropyltoluene
Concen: 18.34 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:119 Resp: 206808

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.7
91	23.8	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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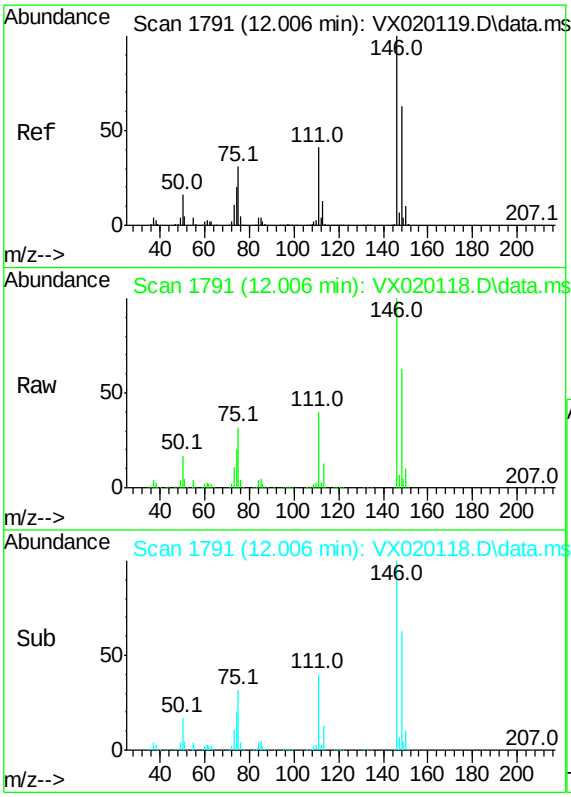
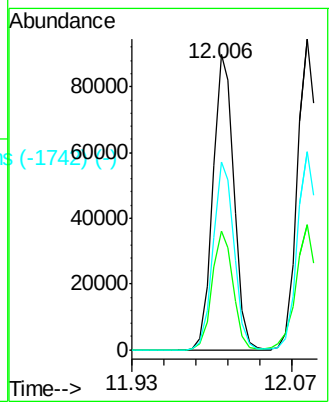
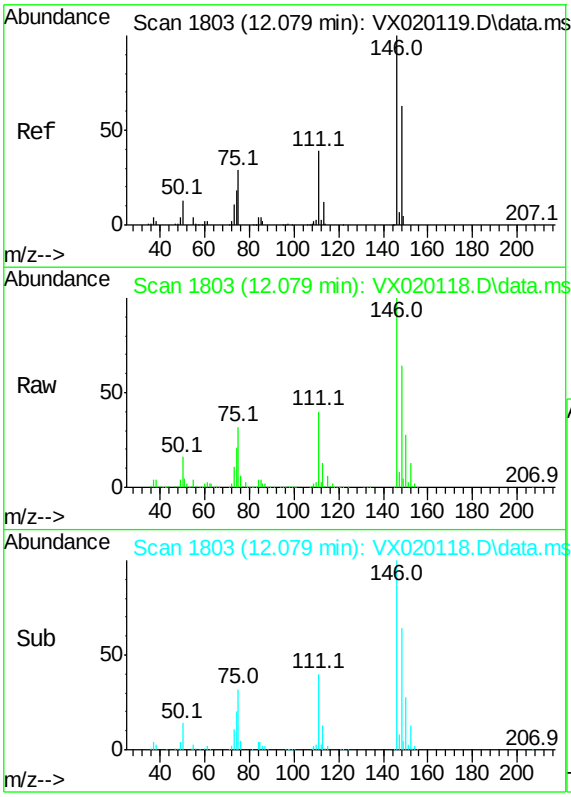


#87
1,3-Dichlorobenzene
Concen: 18.23 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:146 Resp: 112563

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.2	60.5
148	63.2	31.9	95.7

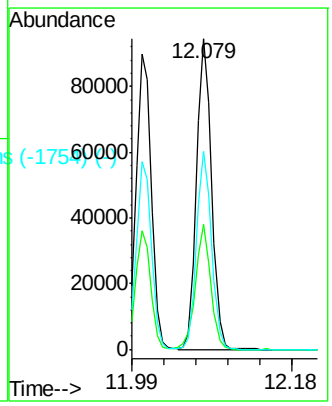




#88
1,4-Dichlorobenzene
Concen: 18.25 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

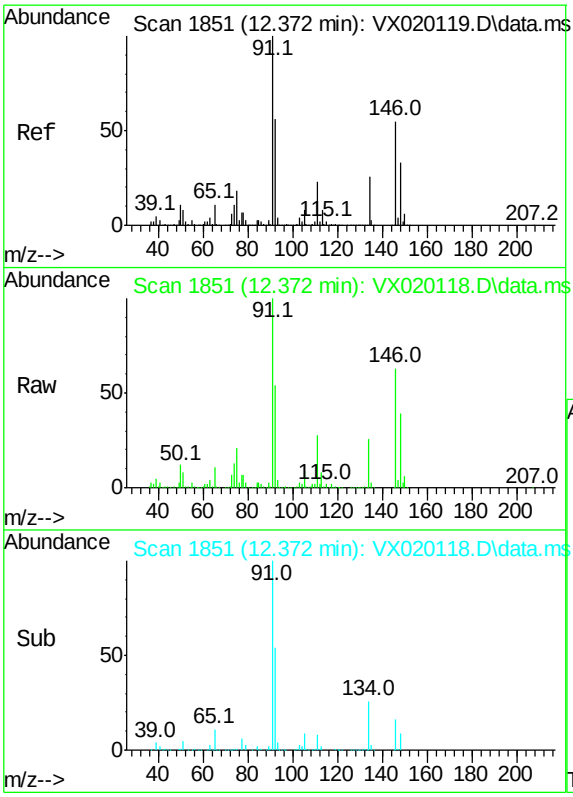
Tgt Ion:146 Resp: 114981

Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.6	58.8
148	63.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

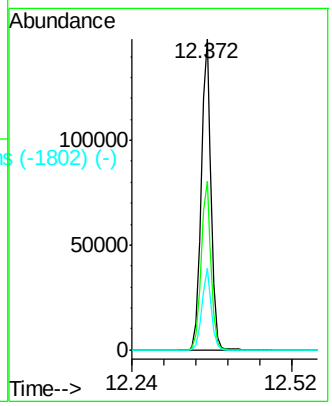
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:55 PM

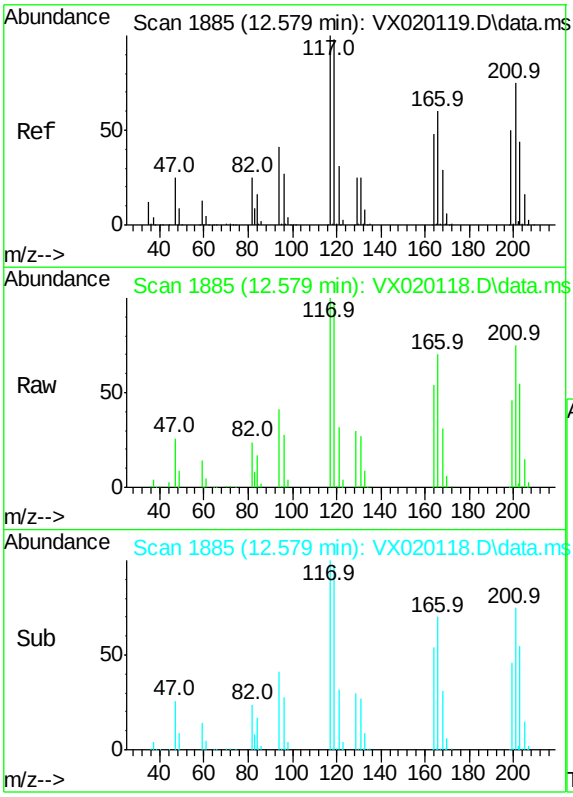


#89
n-Butylbenzene
Concen: 17.27 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion: 91 Resp: 171559

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.4	82.0
134	25.4	13.2	39.5

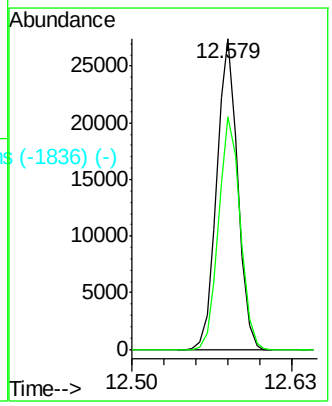




#90
Hexachloroethane
Concen: 17.57 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

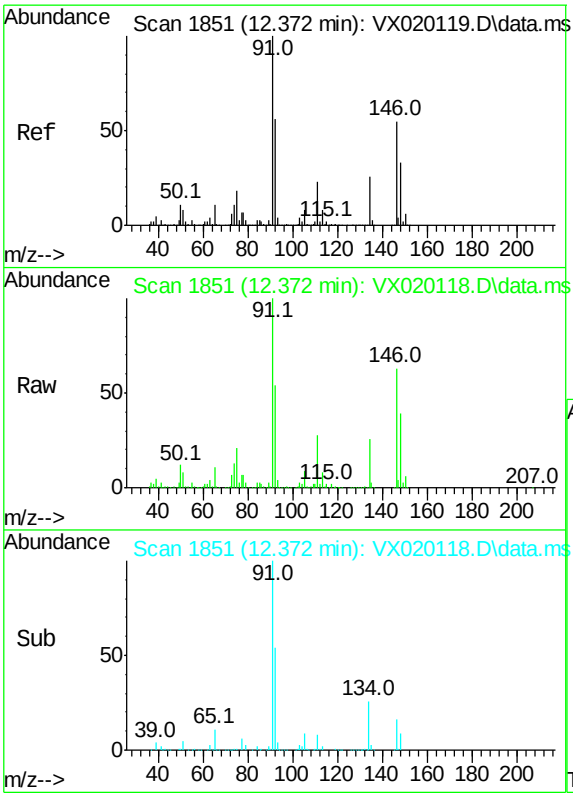
Tgt Ion:117 Resp: 34164

Ion	Ratio	Lower	Upper
117	100		
201	77.3	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

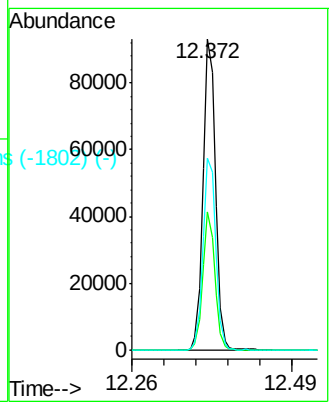
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:55 PM

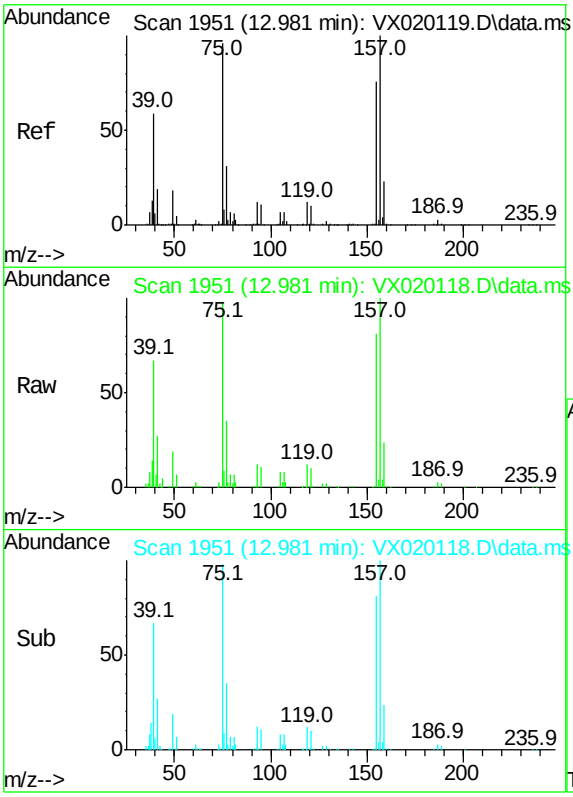


#91
1,2-Dichlorobenzene
Concen: 19.00 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:146 Resp: 114556

Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.8	62.2
148	63.1	31.9	95.5

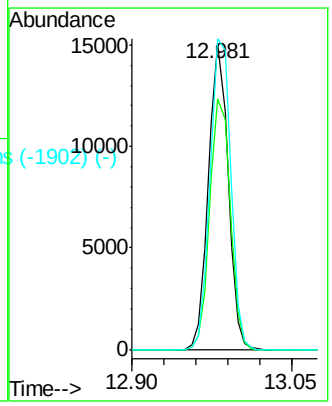




#92
1,2-Dibromo-3-Chloropropane
Concen: 18.62 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

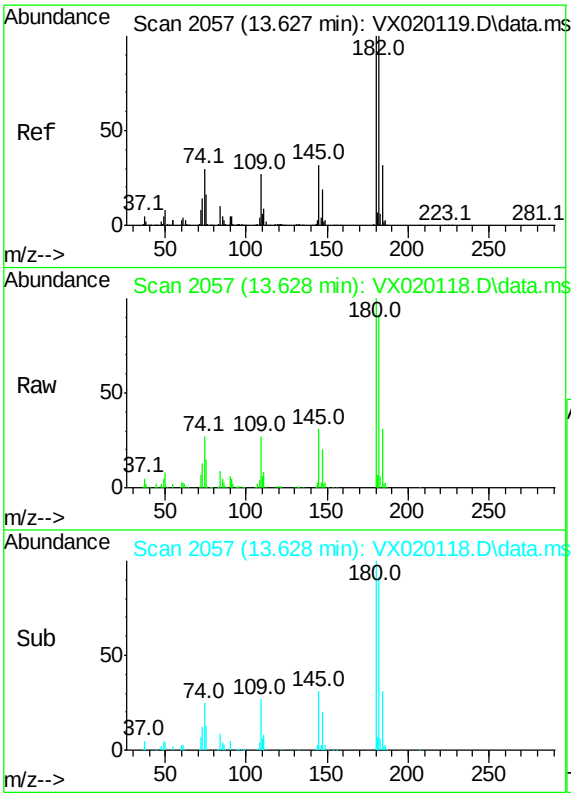
Tgt Ion: 75 Resp: 18767

Ion	Ratio	Lower	Upper
75	100		
155	85.3	45.3	135.9
157	106.3	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

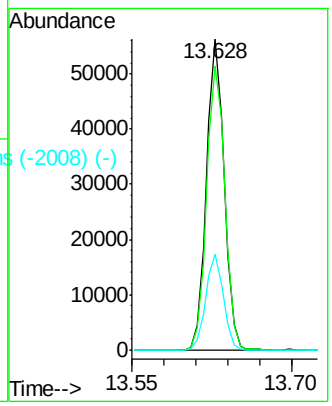
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:55 PM

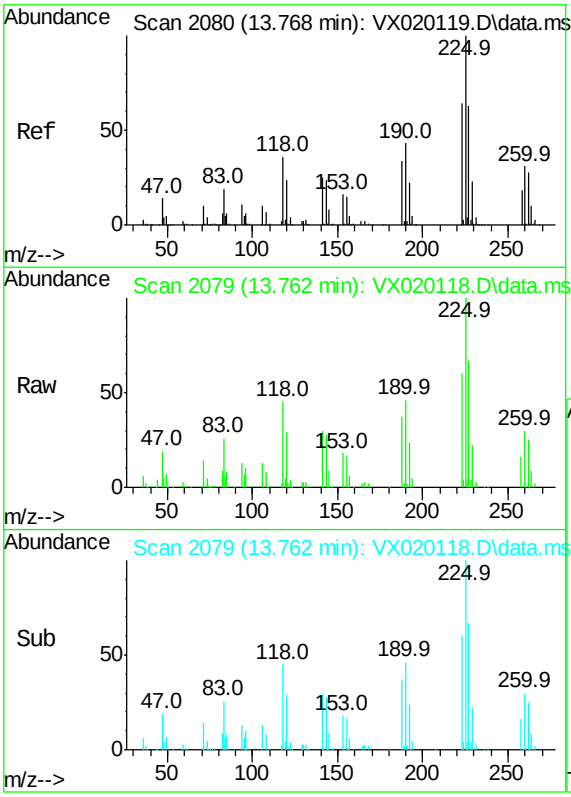


#93
1,2,4-Trichlorobenzene
Concen: 17.45 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:180 Resp: 68029

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.7	143.1
145	30.7	15.0	45.0

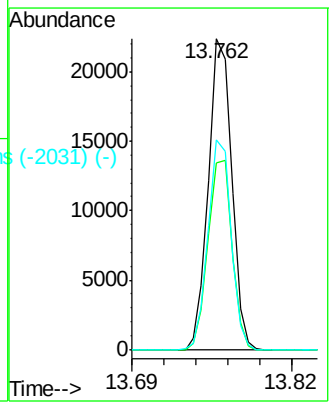




#94
Hexachlorobutadiene
Concen: 16.23 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:225 Resp: 27604

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.1	93.2
227	66.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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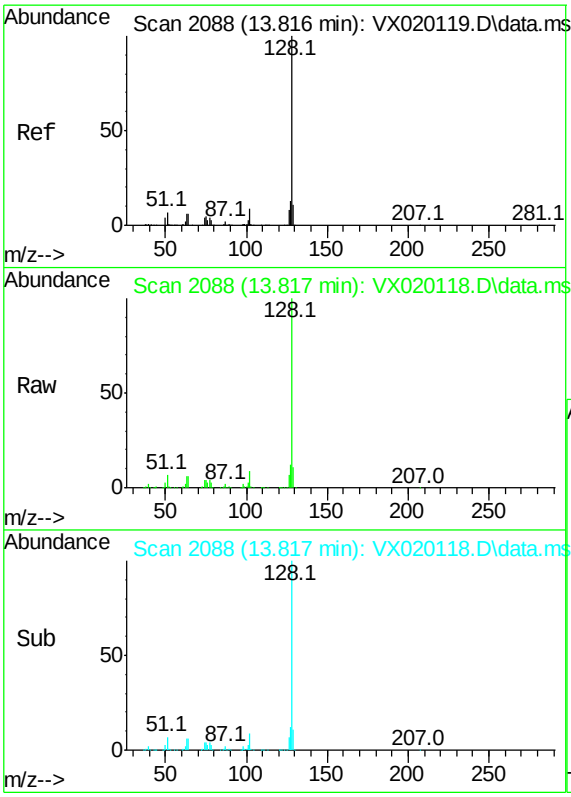
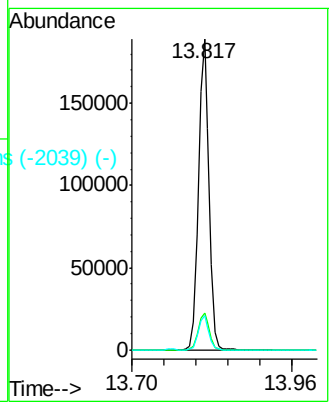
12/21/2020 3:57:55 PM

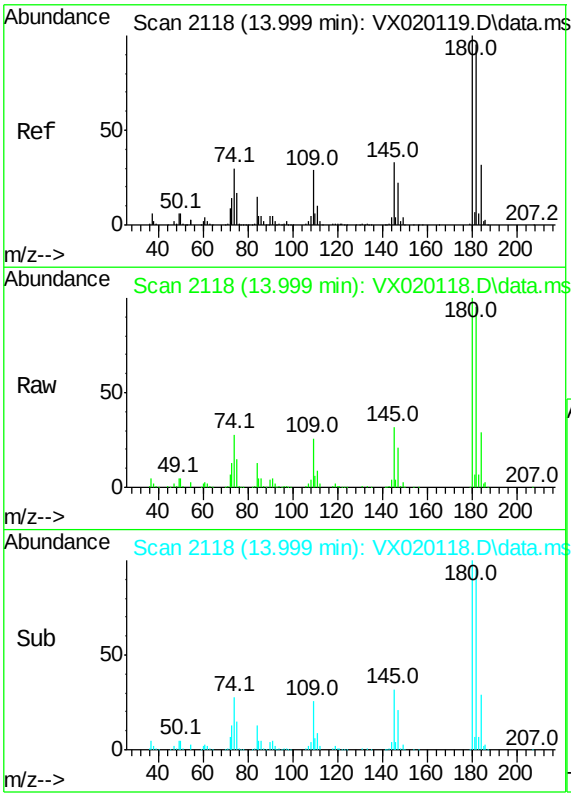


#95
Naphthalene
Concen: 18.28 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:128 Resp: 233085

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.3	15.5
129	10.9	8.8	13.2

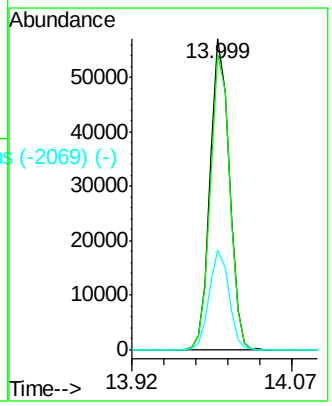




#96
1,2,3-Trichlorobenzene
Concen: 18.04 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020118.D
Acq: 18 Dec 2020 11:22

Tgt Ion:180 Resp: 68899

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.6	142.9
145	32.6	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020119.D
Acq On : 18 Dec 2020 11:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 12:25:37 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICCC050

Manual Integrations APPROVED
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12/21/2020 3:57:56 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.617	168	218636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.824	114	378640	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	366144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	181217	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	153161	52.29	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.58%			
35) Dibromofluoromethane	5.458	113	121494	49.45	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.90%			
50) Toluene-d8	8.689	98	459075	49.16	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.32%			
62) 4-Bromofluorobenzene	11.122	95	175694	49.38	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 98.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	111286	55.17	ug/l	98
3) Chloromethane	1.313	50	135627	55.93	ug/l	98
4) Vinyl Chloride	1.392	62	140248	55.59	ug/l	99
5) Bromomethane	1.624	94	45566	54.36	ug/l	96
6) Chloroethane	1.703	64	93922	60.87	ug/l	99
7) Trichlorofluoromethane	1.910	101	177015	51.16	ug/l	99
8) Diethyl Ether	2.166	74	90030	59.13	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.361	101	99676	50.43	ug/l	97
10) Methyl Iodide	2.489	142	144306	49.71	ug/l	99
11) Tert butyl alcohol	3.014	59	158422	245.34	ug/l	99
12) 1,1-Dichloroethene	2.355	96	104285	51.88	ug/l	97
13) Acrolein	2.270	56	103499	304.83	ug/l	100
14) Allyl chloride	2.703	41	201272	57.69	ug/l	97
15) Acrylonitrile	3.111	53	403103	298.16	ug/l	100
16) Acetone	2.416	43	336279	299.63	ug/l	100
17) Carbon Disulfide	2.544	76	307481	52.86	ug/l	100
18) Methyl Acetate	2.745	43	157107	57.79	ug/l	99
19) Methyl tert-butyl Ether	3.160	73	456469	60.26	ug/l	99
20) Methylene Chloride	2.831	84	152998	53.18	ug/l	98
21) trans-1,2-Dichloroethene	3.135	96	133649	56.04	ug/l	97
22) Diisopropyl ether	3.818	45	437867	61.39	ug/l	96
23) Vinyl Acetate	3.776	43	1932006	316.27	ug/l	99
24) 1,1-Dichloroethane	3.666	63	244578	57.60	ug/l	99
25) 2-Butanone	4.623	43	517447	299.69	ug/l	98
26) 2,2-Dichloropropane	4.544	77	193735	53.88	ug/l	100
27) cis-1,2-Dichloroethene	4.556	96	159092	56.63	ug/l	99
28) Bromochloromethane	4.970	49	109721	54.81	ug/l	97
29) Tetrahydrofuran	5.080	42	330210	297.10	ug/l	98
30) Chloroform	5.172	83	253945	58.09	ug/l	97
31) Cyclohexane	5.537	56	187505	52.35	ug/l	97
32) 1,1,1-Trichloroethane	5.458	97	197905	53.67	ug/l	99
36) 1,1-Dichloropropene	5.763	75	169965	49.72	ug/l	100
37) Ethyl Acetate	4.788	43	199917	56.16	ug/l	99
38) Carbon Tetrachloride	5.745	117	164735	49.52	ug/l	98
39) Methylcyclohexane	7.433	83	189573	47.86	ug/l	96
40) Benzene	6.104	78	577384	54.30	ug/l	100
41) Methacrylonitrile	4.995	41	110924	56.83	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020119.D
Acq On : 18 Dec 2020 11:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:56 PM

Quant Time: Dec 18 12:25:37 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	6.153	62	205810	56.29	ug/l	100
43) Isopropyl Acetate	6.403	43	319862	55.55	ug/l	99
44) Trichloroethene	7.184	130	142288	51.61	ug/l	96
45) 1,2-Dichloropropane	7.482	63	149762	55.97	ug/l	99
46) Dibromomethane	7.635	93	102789	56.80	ug/l	98
47) Bromodichloromethane	7.872	83	200400	56.12	ug/l	99
48) Methyl methacrylate	7.738	41	160152	56.50	ug/l	98
49) 1,4-Dioxane	7.708	88	73280	1077.93	ug/l	99
51) 4-Methyl-2-Pentanone	8.616	43	1005041	285.07	ug/l	99
52) Toluene	8.762	92	356357	53.81	ug/l	99
53) t-1,3-Dichloropropene	9.019	75	224653	56.79	ug/l	98
54) cis-1,3-Dichloropropene	8.409	75	246258	57.14	ug/l	100
55) 1,1,2-Trichloroethane	9.195	97	151512	56.17	ug/l	99
56) Ethyl methacrylate	9.153	69	232852	57.15	ug/l	99
57) 1,3-Dichloropropane	9.348	76	259592	56.23	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.287	63	596529	276.76	ug/l	99
59) 2-Hexanone	9.470	43	764367	281.06	ug/l	99
60) Dibromochloromethane	9.561	129	154249	56.56	ug/l	99
61) 1,2-Dibromoethane	9.653	107	159670	55.74	ug/l	100
64) Tetrachloroethene	9.317	164	123201	50.25	ug/l	93
65) Chlorobenzene	10.116	112	382575	52.11	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.201	131	140493	53.15	ug/l	99
67) Ethyl Benzene	10.232	91	667517	51.54	ug/l	98
68) m/p-Xylenes	10.341	106	507562	103.92	ug/l	98
69) o-Xylene	10.683	106	248356	52.70	ug/l	99
70) Styrene	10.695	104	431858	54.23	ug/l	100
71) Bromoform	10.841	173	109667	53.19	ug/l	95
73) Isopropylbenzene	11.000	105	627244	50.59	ug/l	99
74) N-amyl acetate	10.878	43	278082	55.13	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.250	83	235632	53.23	ug/l	99
76) 1,2,3-Trichloropropane	11.280	75	219676m	53.30	ug/l	
77) Bromobenzene	11.238	156	164909	51.52	ug/l	97
78) n-propylbenzene	11.341	91	723194	51.12	ug/l	100
79) 2-Chlorotoluene	11.402	91	459440	52.25	ug/l	98
80) 1,3,5-Trimethylbenzene	11.488	105	546391	52.18	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.055	75	78023	54.84	ug/l	99
82) 4-Chlorotoluene	11.494	91	541553	52.53	ug/l	99
83) tert-Butylbenzene	11.756	119	509665	49.97	ug/l	99
84) 1,2,4-Trimethylbenzene	11.792	105	570388	53.78	ug/l	98
85) sec-Butylbenzene	11.927	105	571246	49.29	ug/l	100
86) p-Isopropyltoluene	12.048	119	546193	51.16	ug/l	100
87) 1,3-Dichlorobenzene	12.006	146	302546	51.72	ug/l	100
88) 1,4-Dichlorobenzene	12.079	146	306512	51.37	ug/l	99
89) n-Butylbenzene	12.372	91	467291	49.67	ug/l	99
90) Hexachloroethane	12.579	117	91208	49.53	ug/l	95
91) 1,2-Dichlorobenzene	12.372	146	299063	52.37	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	51311	53.74	ug/l	94
93) 1,2,4-Trichlorobenzene	13.627	180	191165	51.76	ug/l	99
94) Hexachlorobutadiene	13.768	225	68784	42.71	ug/l	97
95) Naphthalene	13.816	128	655954	54.31	ug/l	100
96) 1,2,3-Trichlorobenzene	13.999	180	188738	52.19	ug/l	99

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

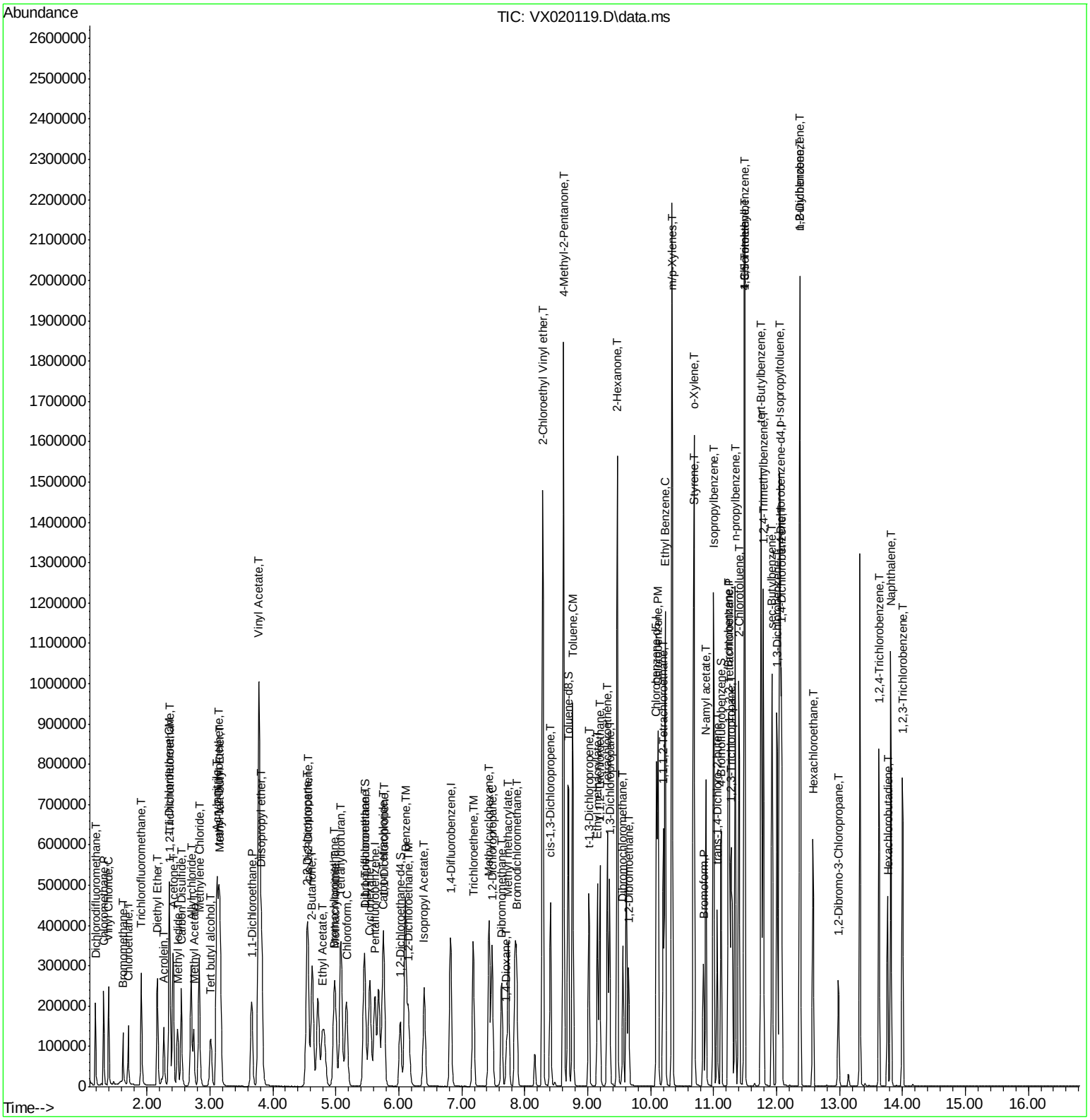
MMDadoda
12/21/2020 3:57:56 PM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020119.D
Acq On : 18 Dec 2020 11:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 12:25:37 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

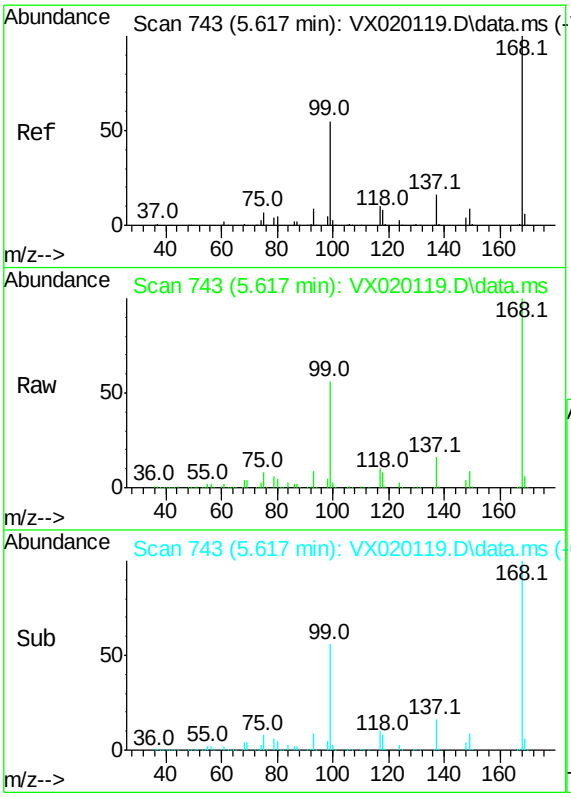
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:56 PM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

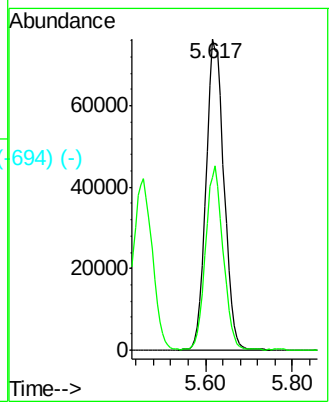
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:56 PM

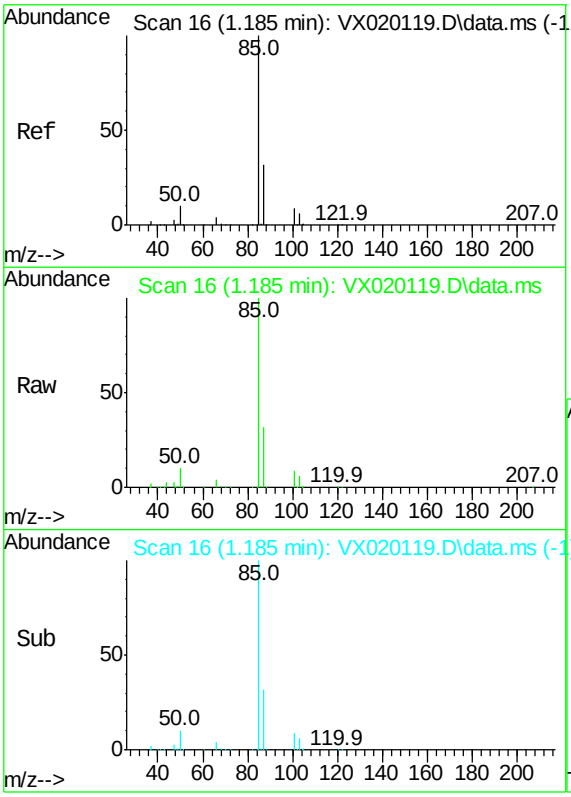


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.617 min Scan# 743
Delta R.T. -0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:168 Resp: 218636

Ion	Ratio	Lower	Upper
168	100		
99	55.6	45.8	68.6

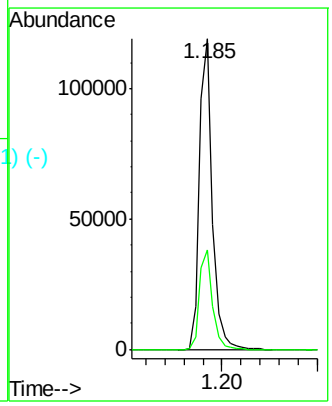




#2
Dichlorodifluoromethane
Concen: 55.17 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 85 Resp: 111286

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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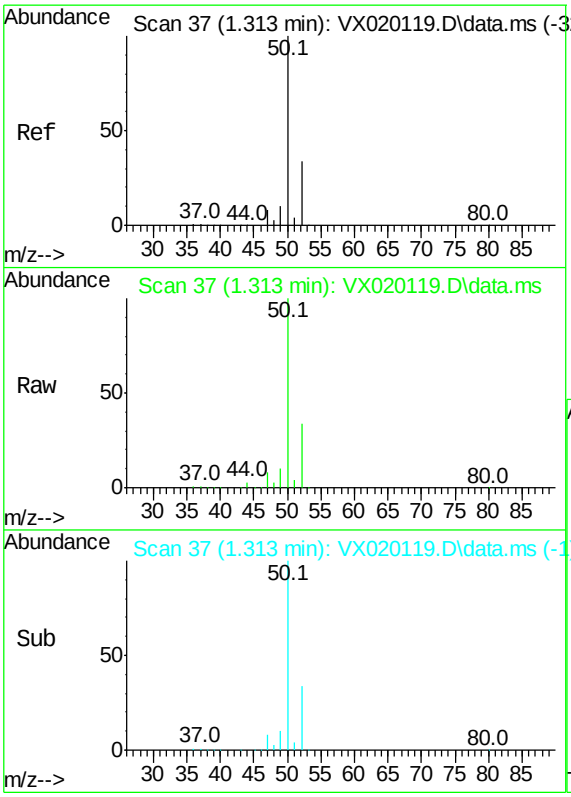
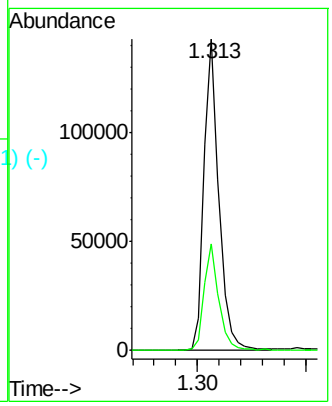
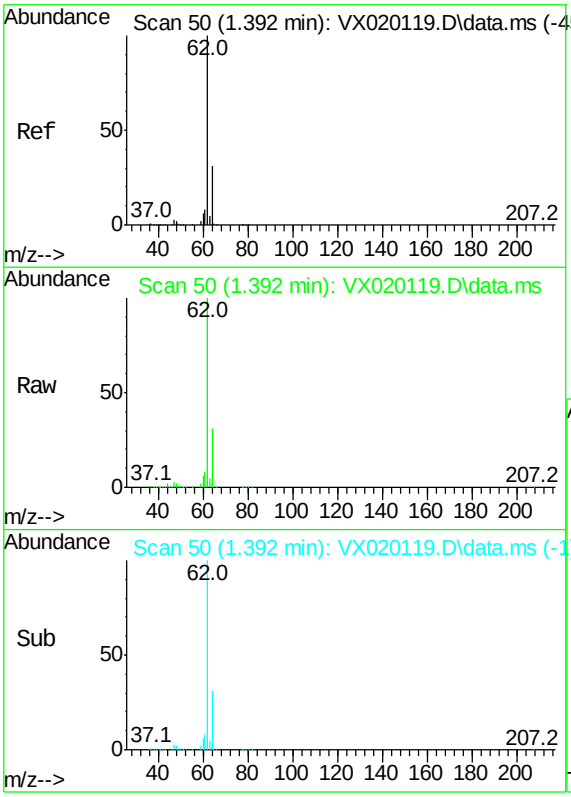


#3
Chloromethane
Concen: 55.93 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 50 Resp: 135627

Ion	Ratio	Lower	Upper
50	100		
52	34.0	26.4	39.6

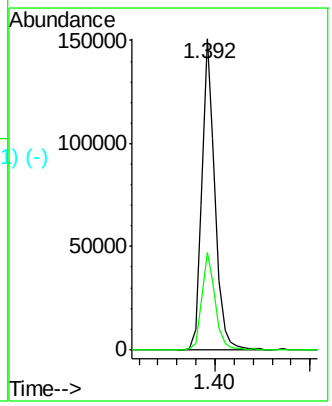




#4
Vinyl Chloride
Concen: 55.59 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 62 Resp: 140248

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
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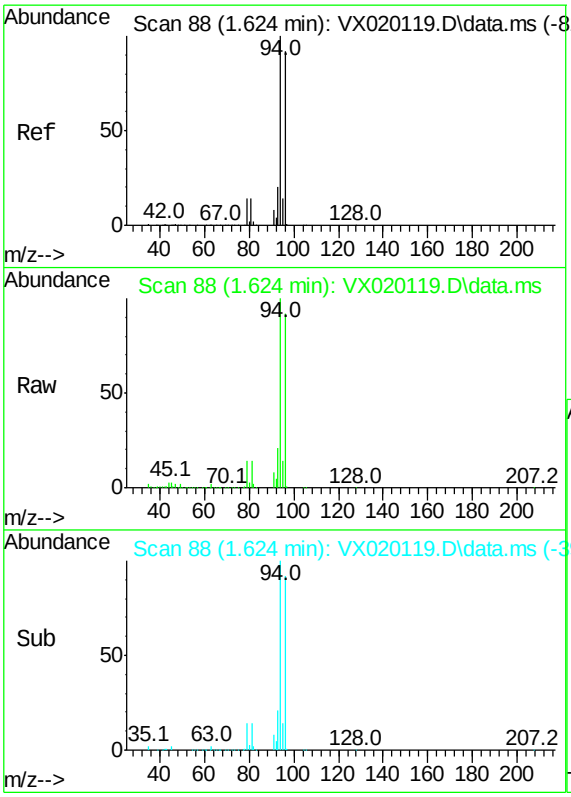
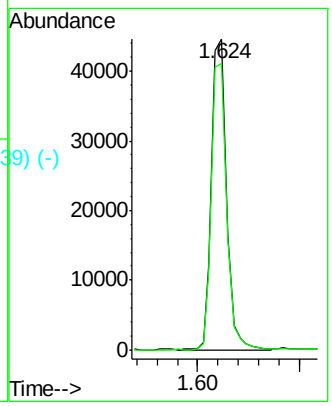
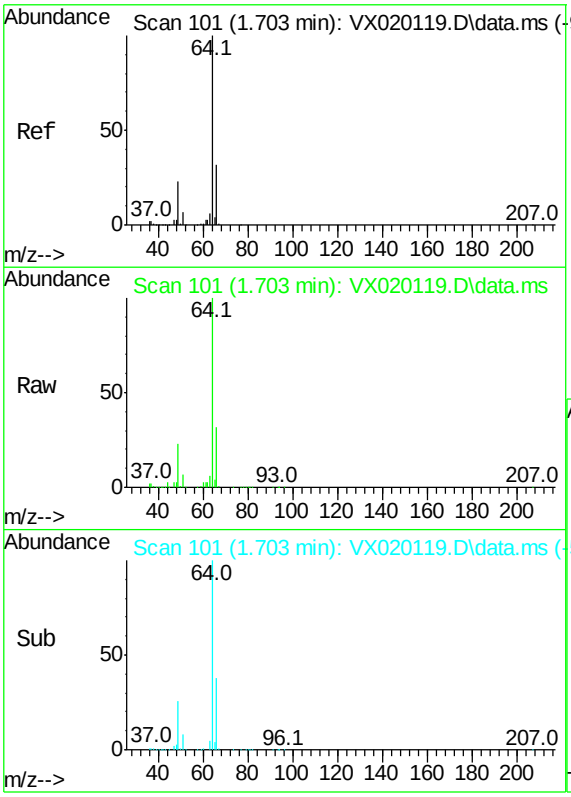


#5
Bromomethane
Concen: 54.36 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 94 Resp: 45566

Ion	Ratio	Lower	Upper
94	100		
96	91.9	76.4	114.6

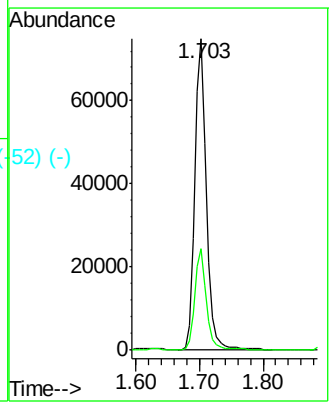




#6
Chloroethane
Concen: 60.87 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 64 Resp: 93922

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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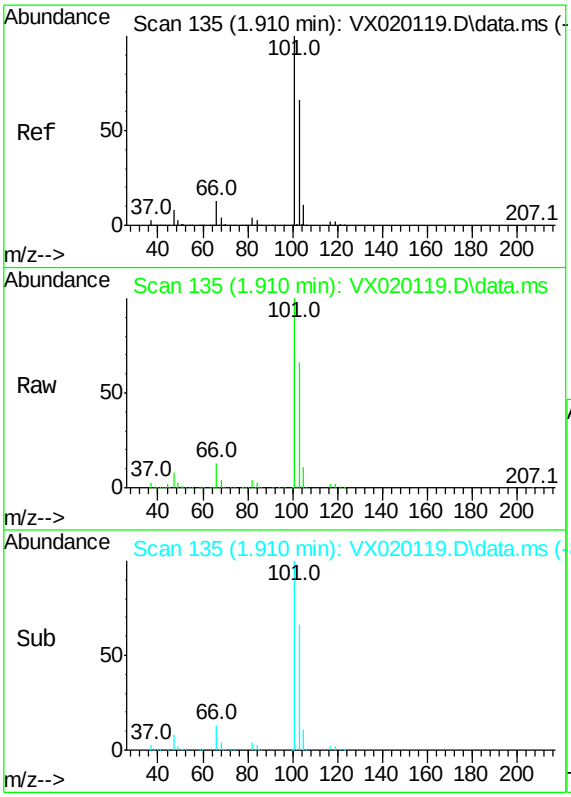
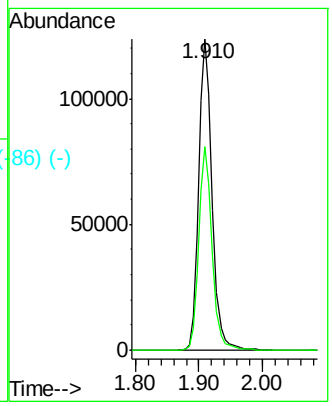
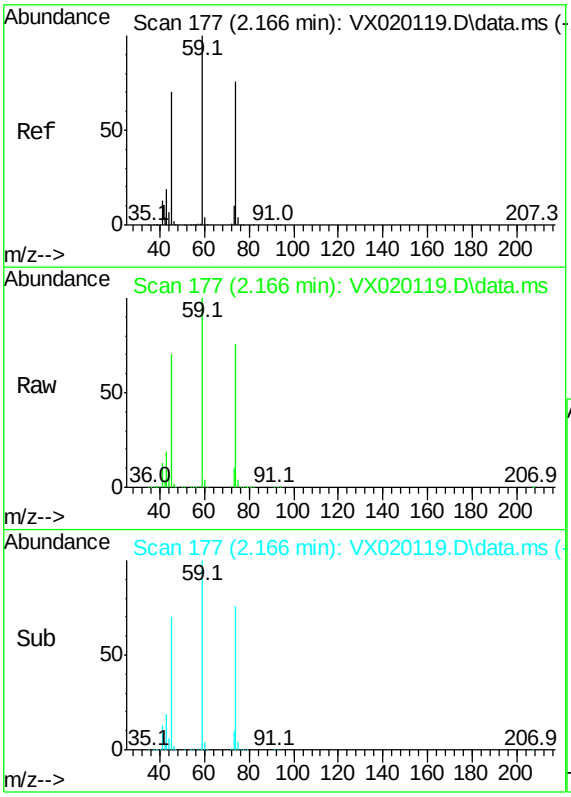


#7
Trichlorofluoromethane
Concen: 51.16 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:101 Resp: 177015

Ion	Ratio	Lower	Upper
101	100		
103	65.5	53.2	79.8

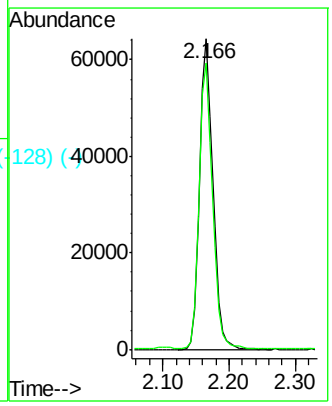




#8
Diethyl Ether
Concen: 59.13 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 74 Resp: 90030

Ion	Ratio	Lower	Upper
74	100		
45	92.7	44.5	133.5



Instrument :
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ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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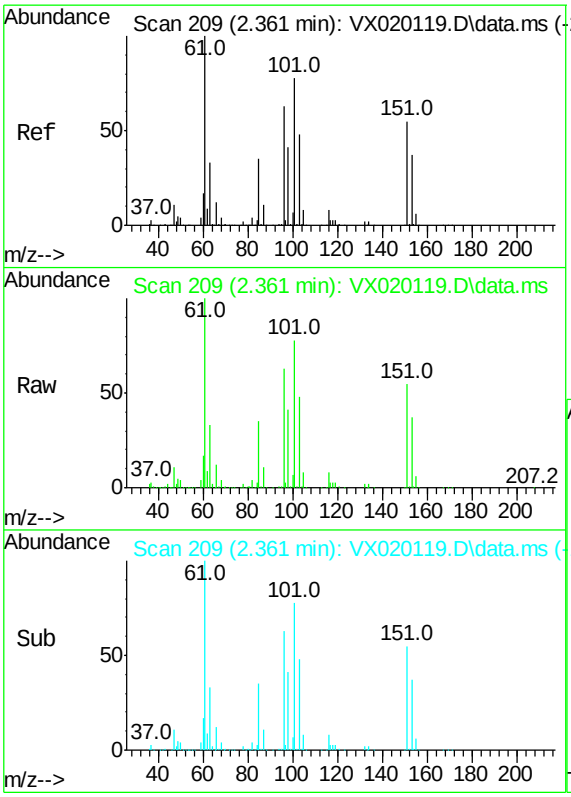
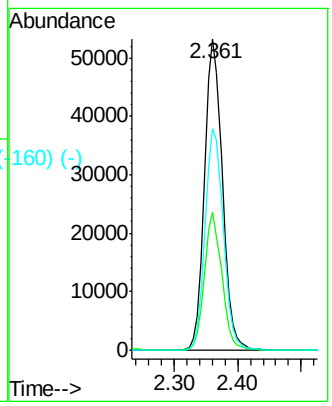
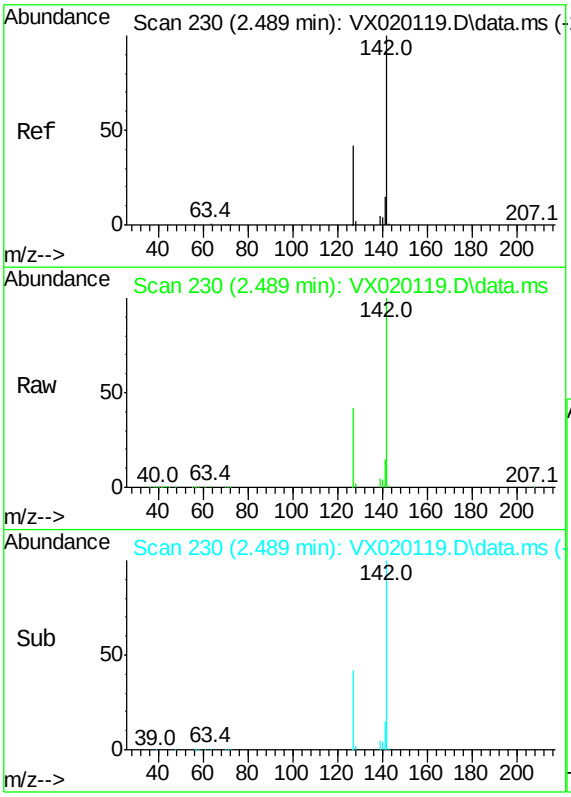


#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.43 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:101 Resp: 99676

Ion	Ratio	Lower	Upper
101	100		
85	43.1	34.9	52.3
151	72.6	61.4	92.2

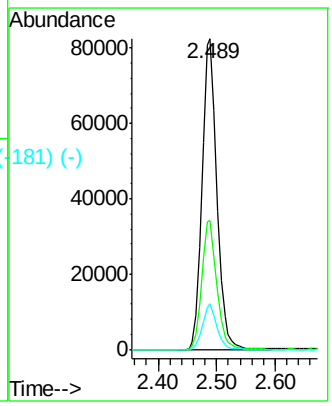




#10
Methyl Iodide
Concen: 49.71 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:142 Resp: 144306

Ion	Ratio	Lower	Upper
142	100		
127	42.0	33.3	49.9
141	14.2	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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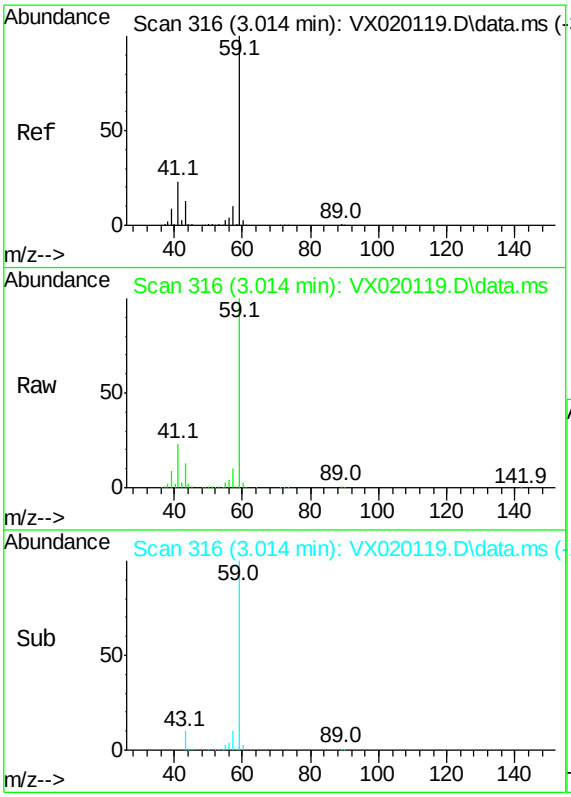
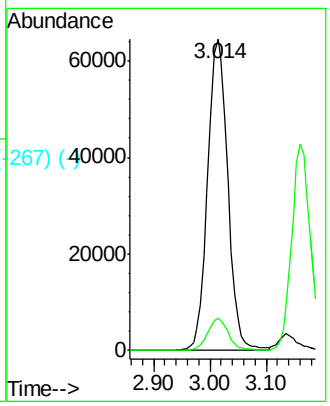
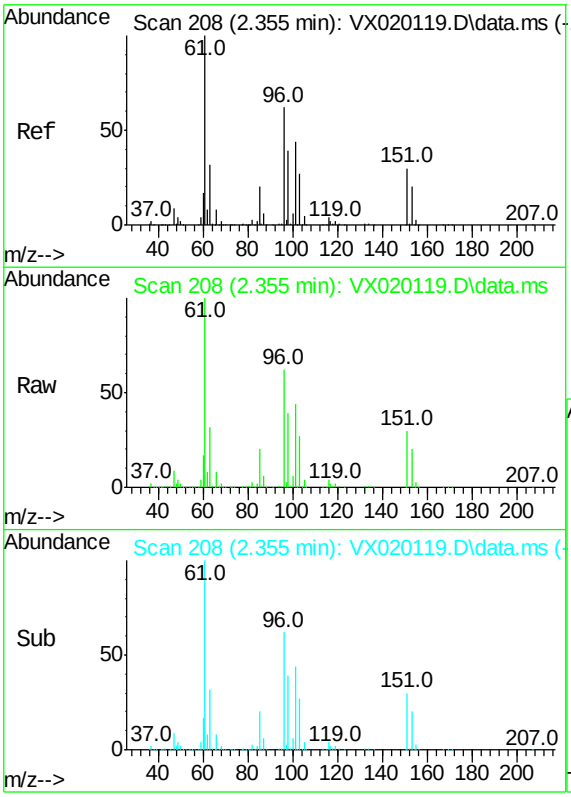


#11
Tert butyl alcohol
Concen: 245.34 ug/l
RT: 3.014 min Scan# 316
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 59 Resp: 158422

Ion	Ratio	Lower	Upper
59	100		
57	10.0	7.8	11.8

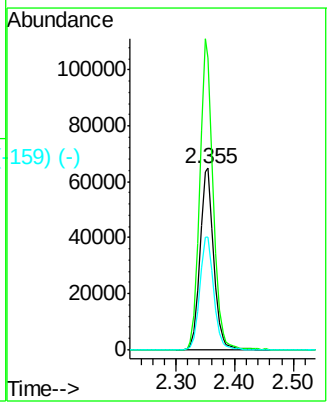




#12
1,1-Dichloroethene
Concen: 51.88 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 96 Resp: 104285

Ion	Ratio	Lower	Upper
96	100		
61	161.2	124.6	187.0
98	62.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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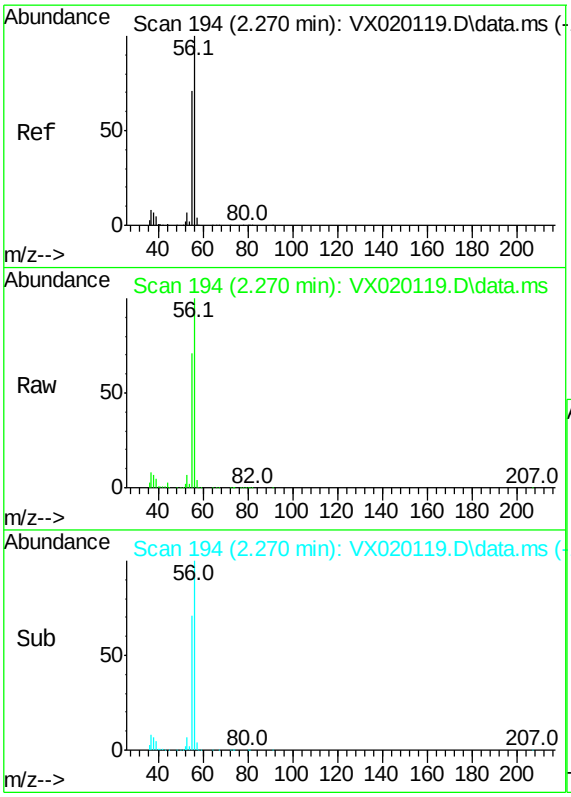
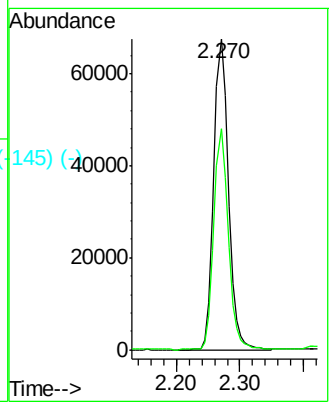
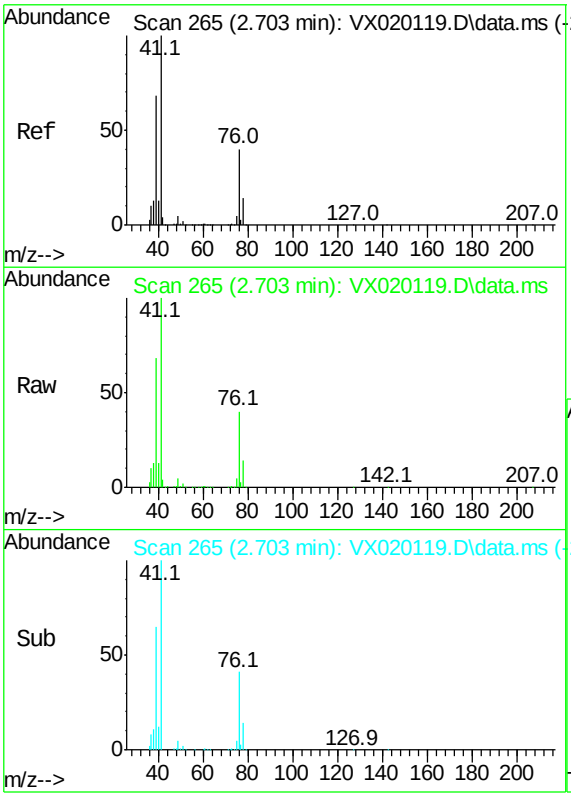


#13
Acrolein
Concen: 304.83 ug/l
RT: 2.270 min Scan# 194
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 56 Resp: 103499

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.4	84.6

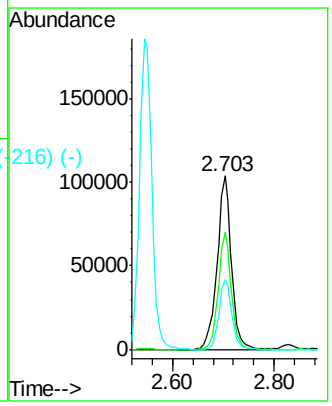




#14
Allyl chloride
Concen: 57.69 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 41 Resp: 201272

Ion	Ratio	Lower	Upper
41	100		
39	62.1	51.6	77.4
76	36.6	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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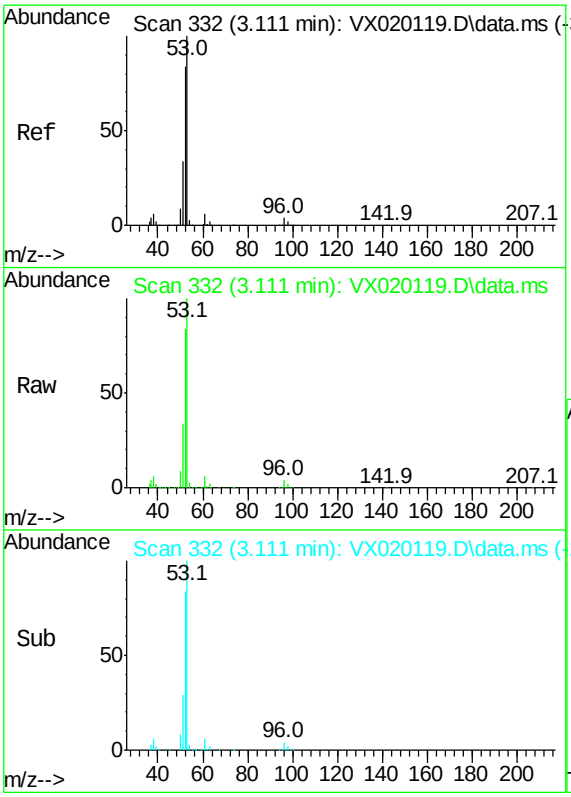
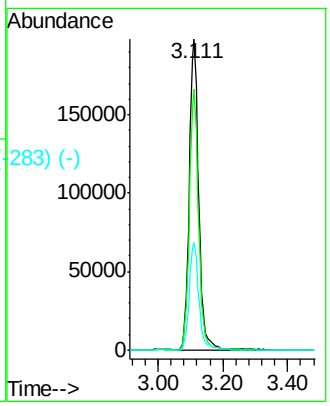
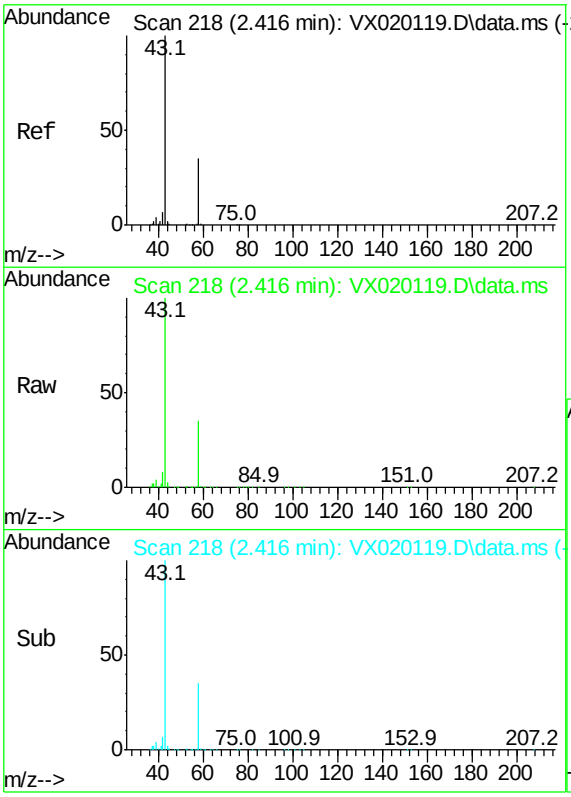


#15
Acrylonitrile
Concen: 298.16 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 53 Resp: 403103

Ion	Ratio	Lower	Upper
53	100		
52	82.0	65.3	97.9
51	35.2	28.2	42.2

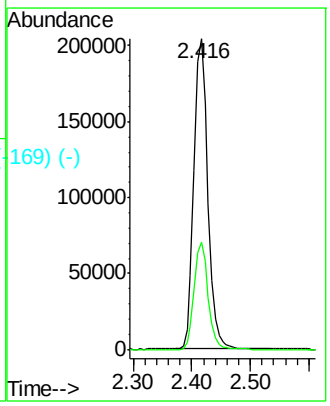




#16
Acetone
Concen: 299.63 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 336279

Ion	Ratio	Lower	Upper
43	100		
58	34.5	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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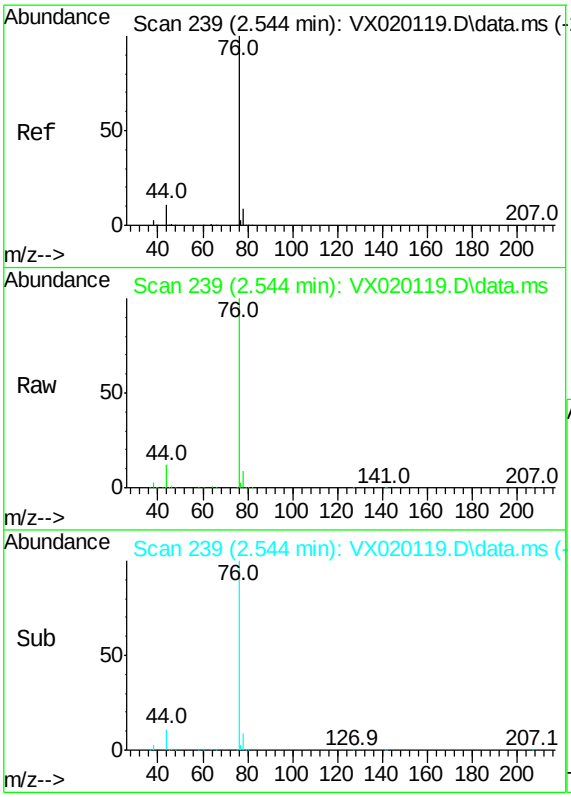
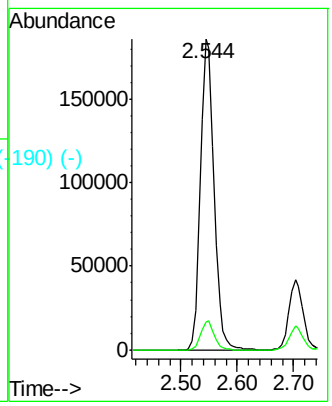
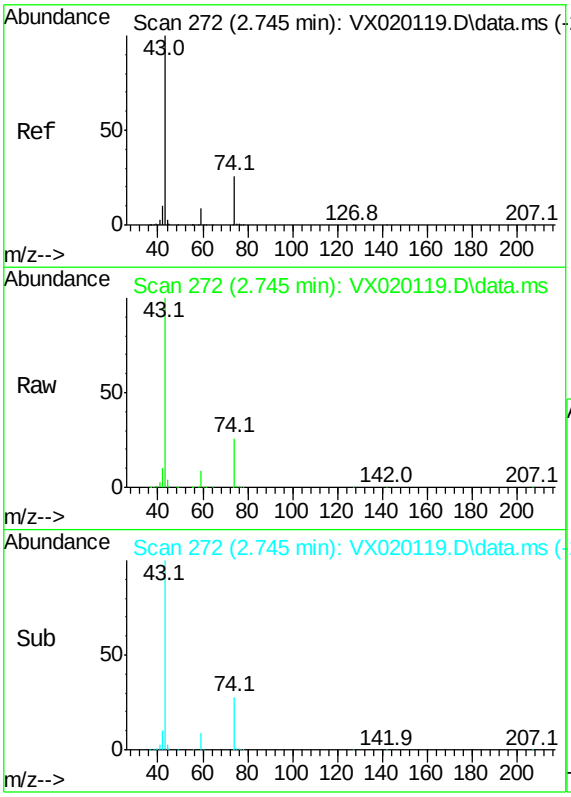


#17
Carbon Disulfide
Concen: 52.86 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 76 Resp: 307481

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

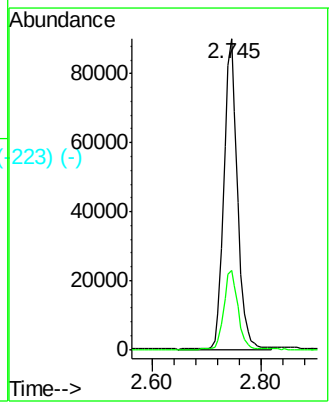




#18
Methyl Acetate
Concen: 57.79 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 157107

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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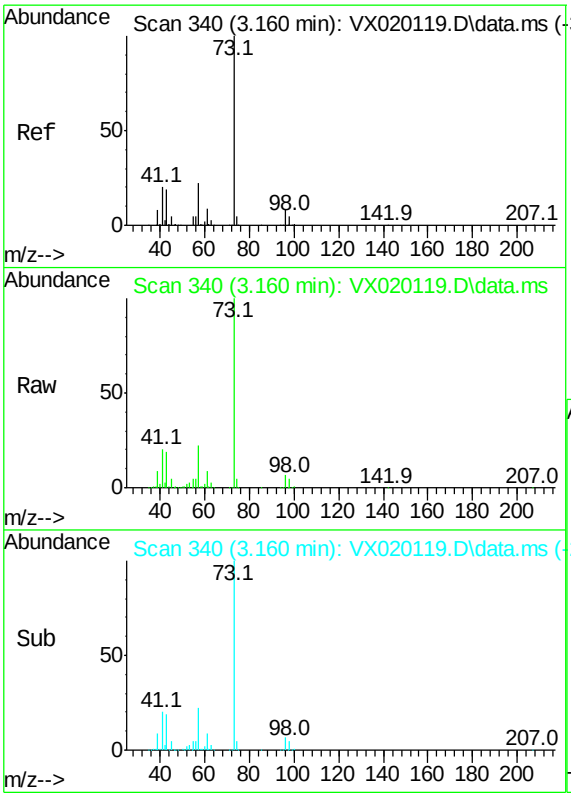
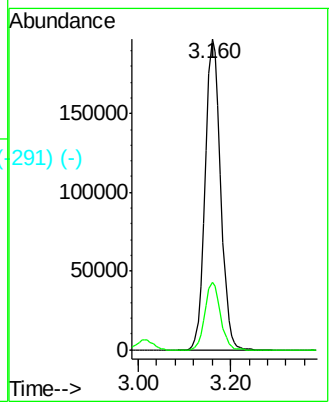
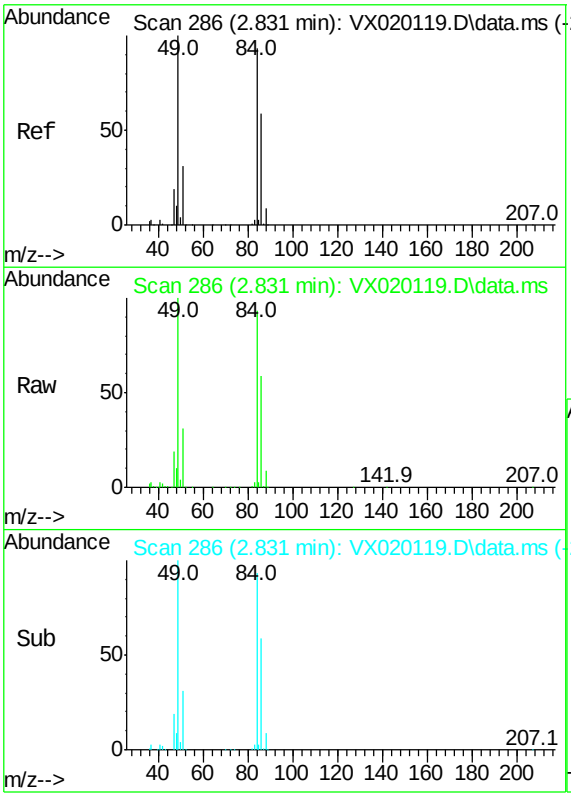


#19
Methyl tert-butyl Ether
Concen: 60.26 ug/l
RT: 3.160 min Scan# 340
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 73 Resp: 456469

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7

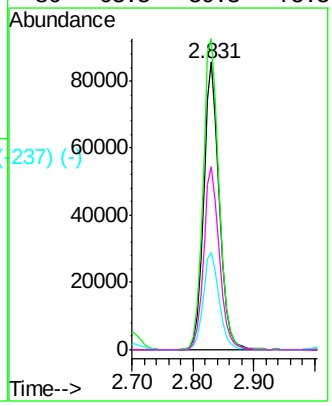




#20
Methylene Chloride
Concen: 53.18 ug/l
RT: 2.831 min Scan# 286
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 84 Resp: 152998

Ion	Ratio	Lower	Upper
84	100		
49	107.8	88.6	132.8
51	33.8	27.0	40.6
86	63.5	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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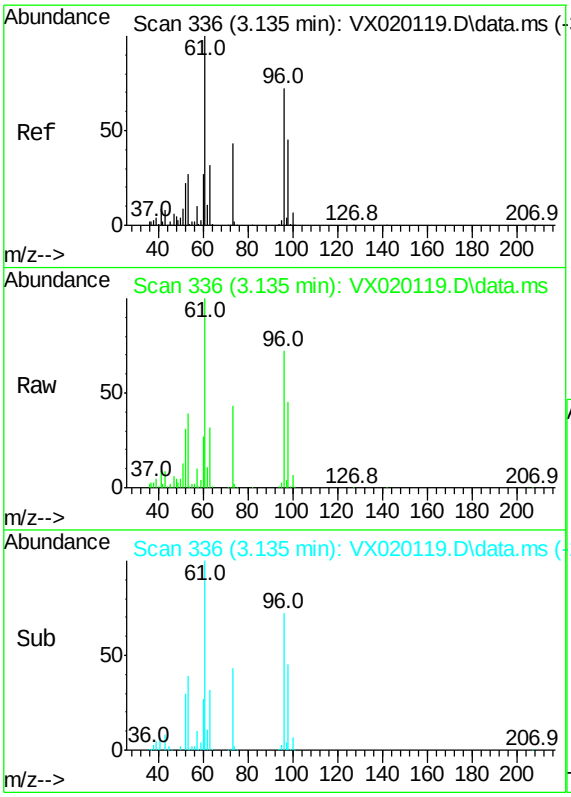
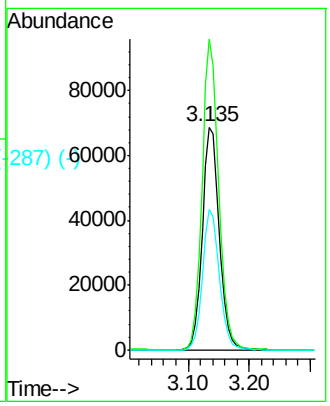
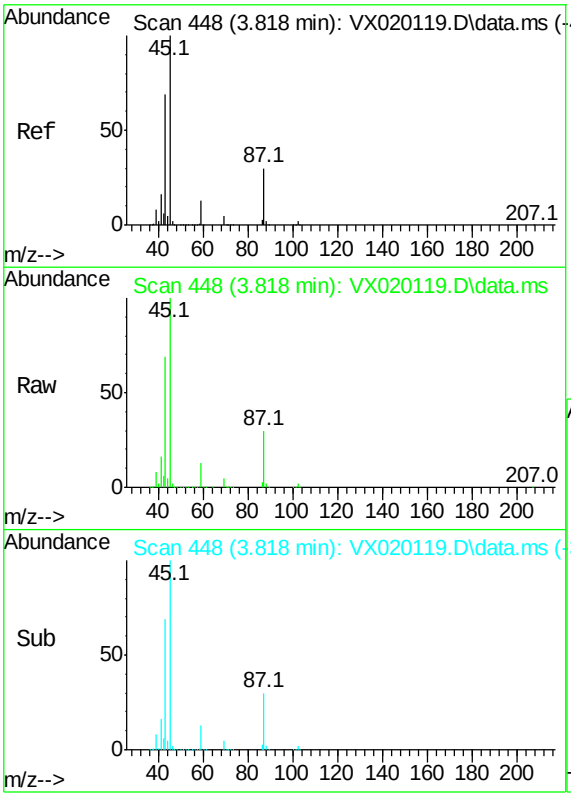


#21 (-)
trans-1,2-Dichloroethene
Concen: 56.04 ug/l
RT: 3.135 min Scan# 336
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 96 Resp: 133649

Ion	Ratio	Lower	Upper
96	100		
61	139.5	107.7	161.5
98	62.9	50.4	75.6

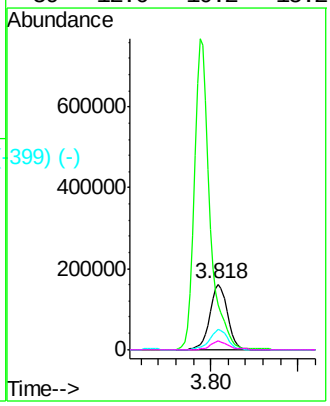




#22 (-)
Diisopropyl ether
Concen: 61.39 ug/l
RT: 3.818 min Scan# 448
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 45 Resp: 437867

Ion	Ratio	Lower	Upper
45	100		
43	68.8	58.0	87.0
87	30.2	25.4	38.0
59	12.6	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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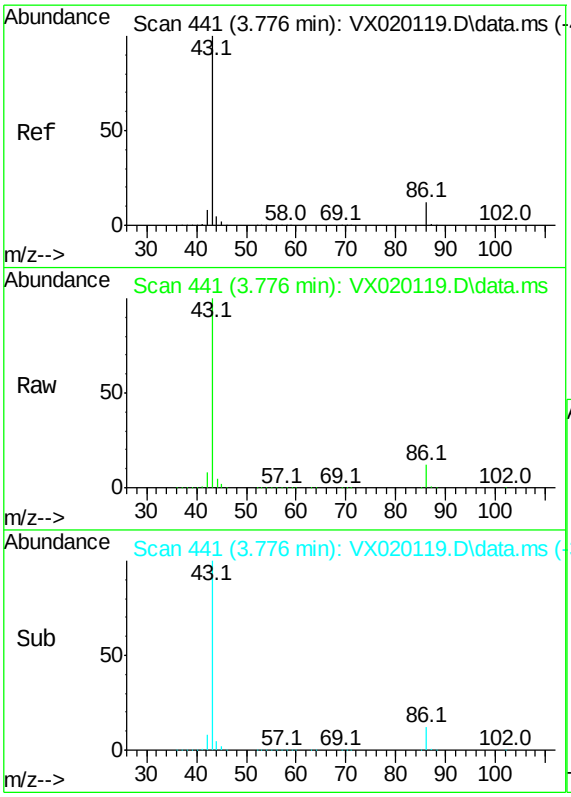
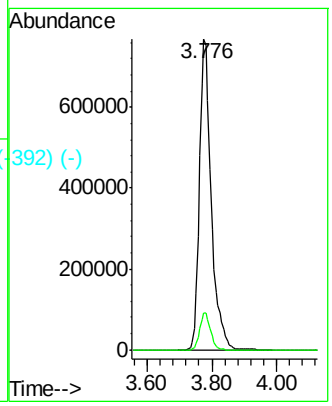
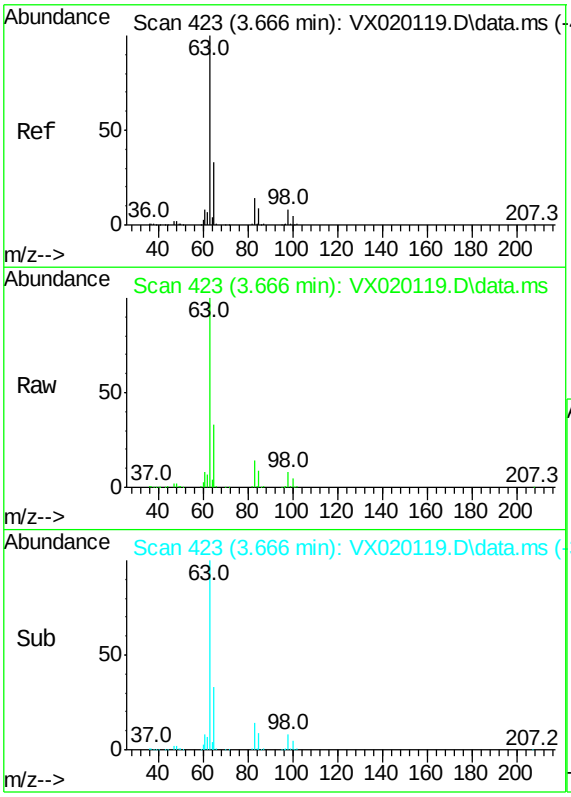


#23
Vinyl Acetate
Concen: 316.27 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 1932006

Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.9	14.9

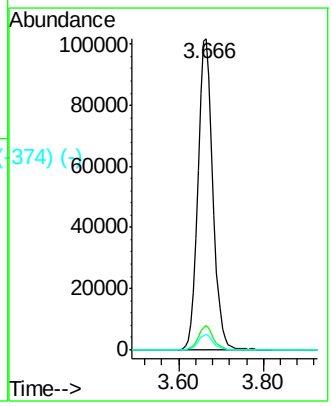




#24
1,1-Dichloroethane
Concen: 57.60 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 63 Resp: 244578

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.8	11.2
100	4.7	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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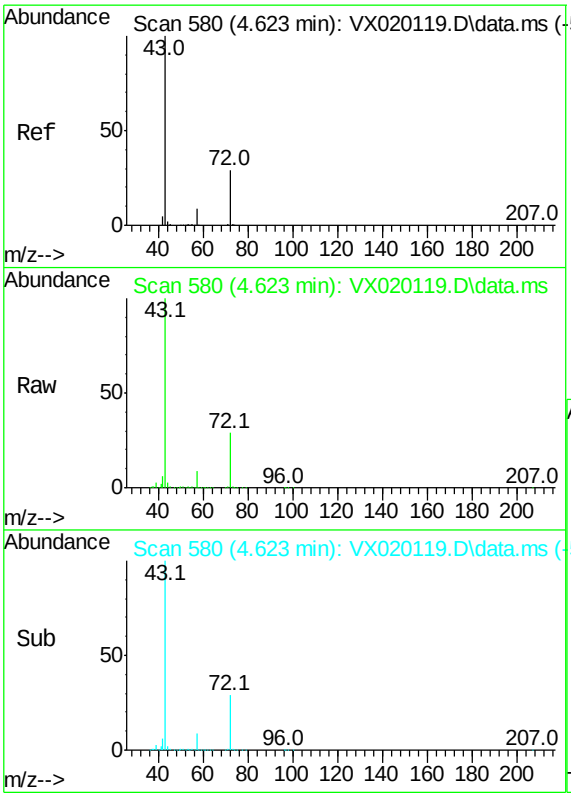
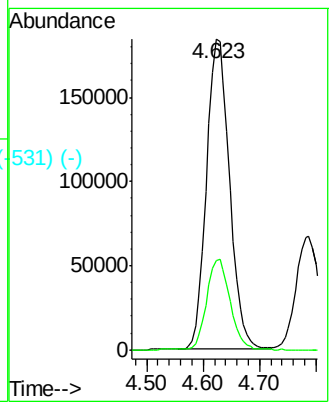
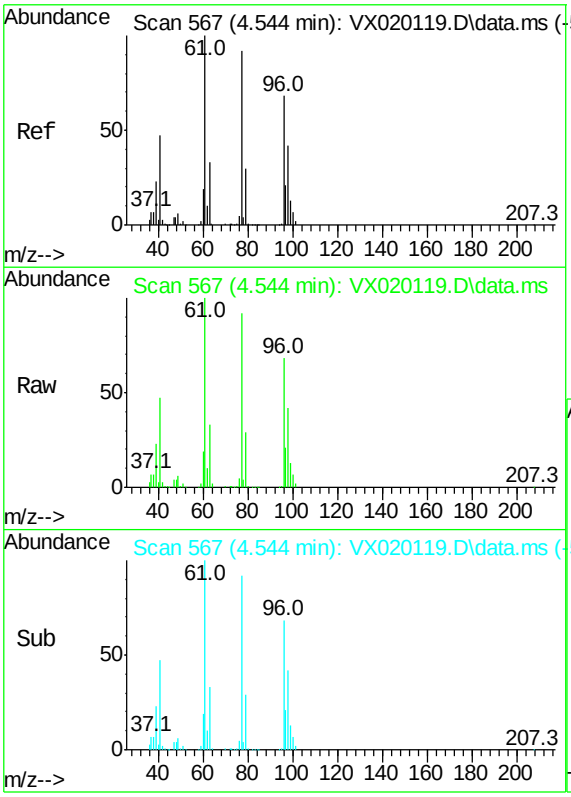


#25 (-)
2-Butanone
Concen: 299.69 ug/l
RT: 4.623 min Scan# 580
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 517447

Ion	Ratio	Lower	Upper
43	100		
72	28.7	23.7	35.5

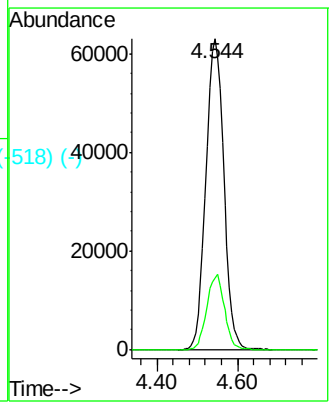




#26 (-)
2,2-Dichloropropane
Concen: 53.88 ug/l
RT: 4.544 min Scan# 567
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 77 Resp: 193735

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.7	35.1



Instrument :
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ClientSampleId :
VSTDICCC050

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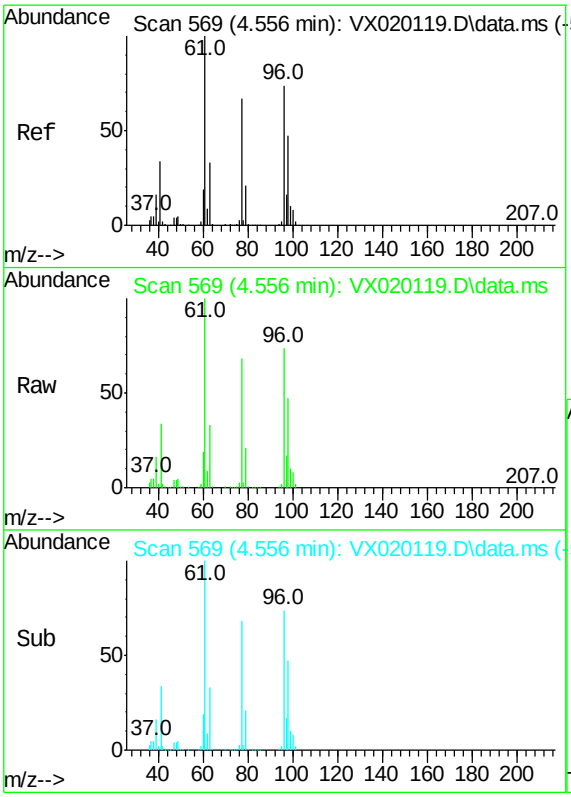
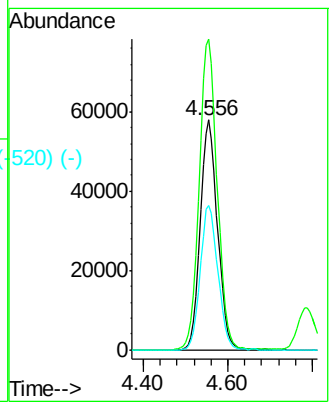
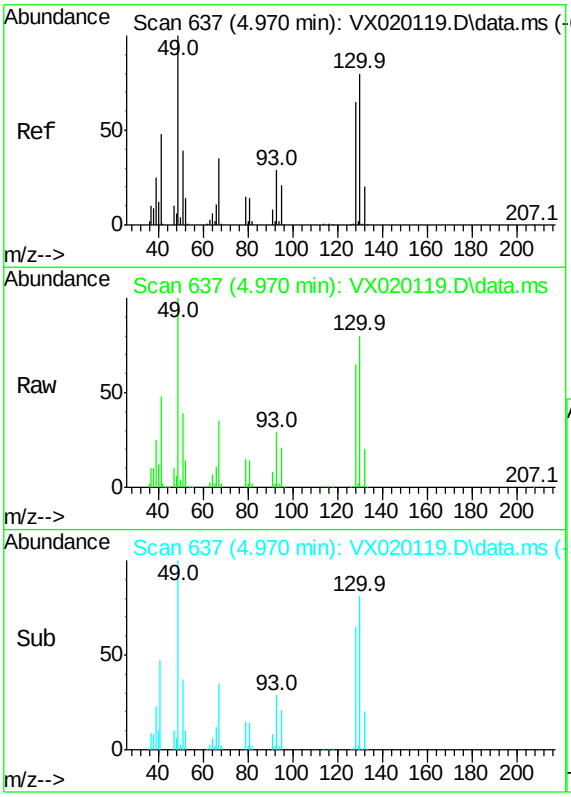


#27
cis-1,2-Dichloroethene
Concen: 56.63 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 96 Resp: 159092

Ion	Ratio	Lower	Upper
96	100		
61	141.8	0.0	285.6
98	64.1	0.0	129.6

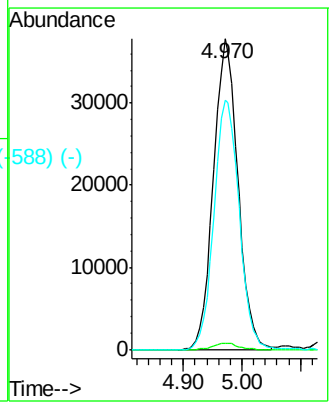




#28
Bromochloromethane
Concen: 54.81 ug/l
RT: 4.970 min Scan# 637
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 49 Resp: 109721

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	82.7	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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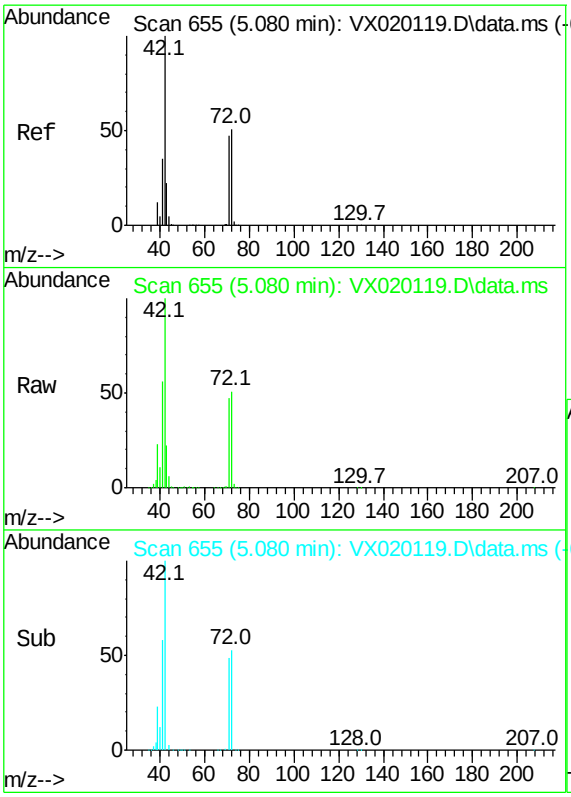
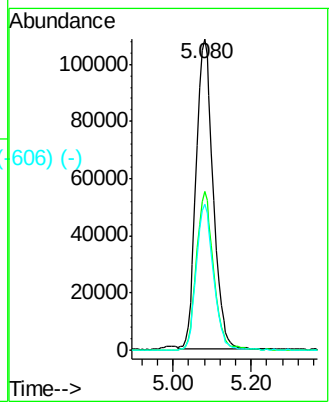
12/21/2020 3:57:56 PM

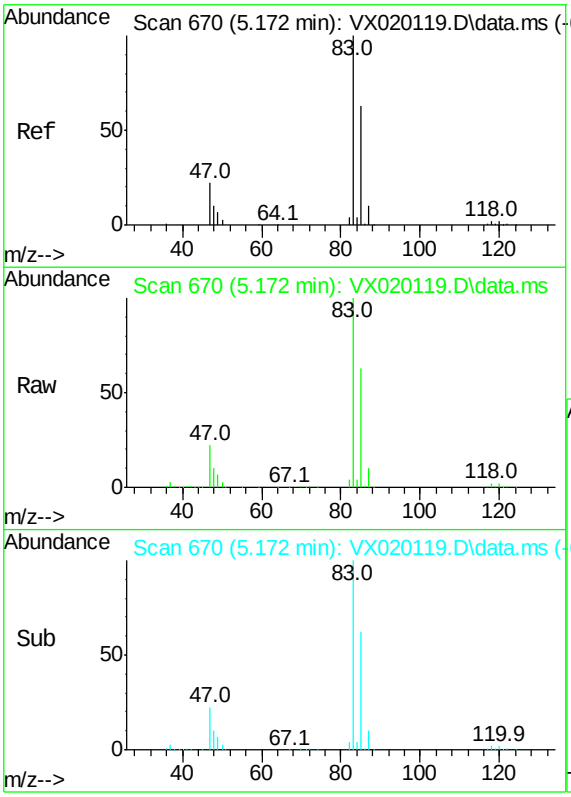


#29
Tetrahydrofuran
Concen: 297.10 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 42 Resp: 330210

Ion	Ratio	Lower	Upper
42	100		
72	50.7	41.7	62.5
71	46.8	38.4	57.6

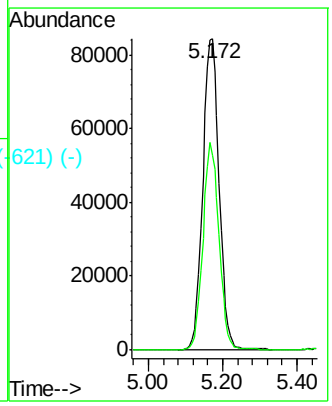




#30
Chloroform
Concen: 58.09 ug/l
RT: 5.172 min Scan# 670
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 83 Resp: 253945

Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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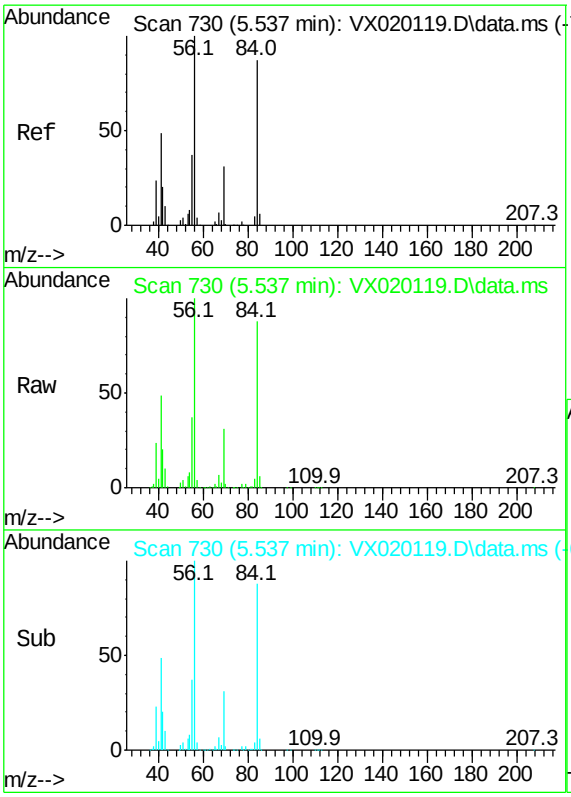
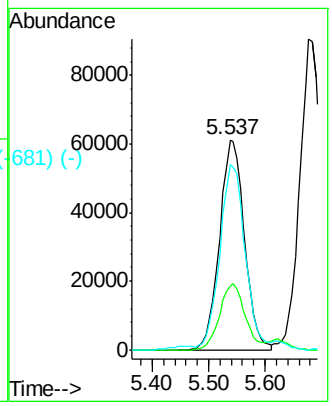
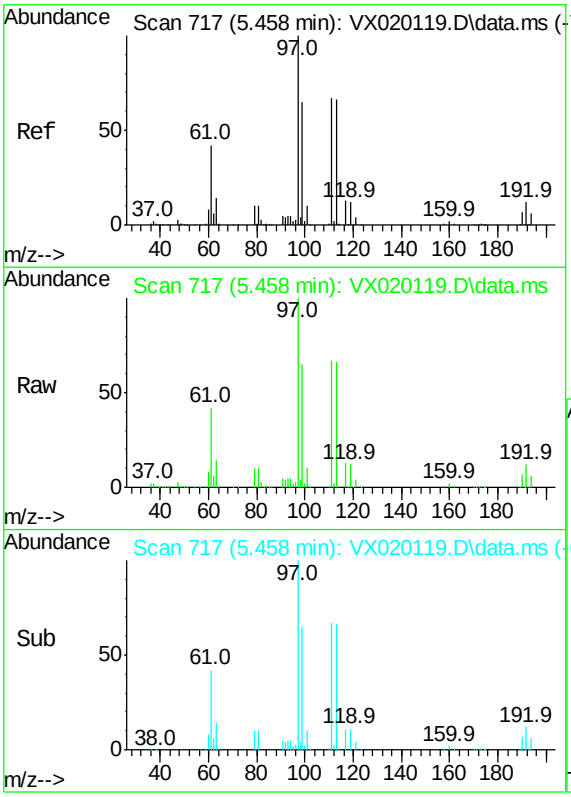


#81 (-)
Cyclohexane
Concen: 52.35 ug/l
RT: 5.537 min Scan# 730
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 56 Resp: 187505

Ion	Ratio	Lower	Upper
56	100		
69	30.6	25.3	37.9
84	86.6	71.4	107.0

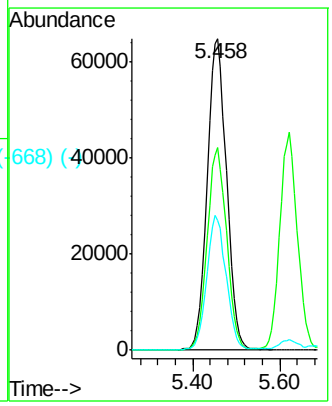




#82 (-)
1,1,1-Trichloroethane
Concen: 53.67 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 97 Resp: 197905

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.5	77.3
61	43.3	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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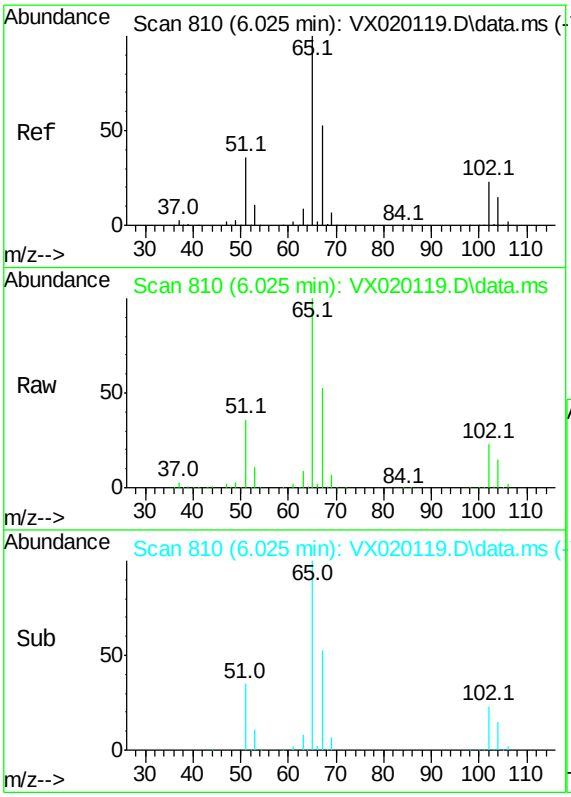
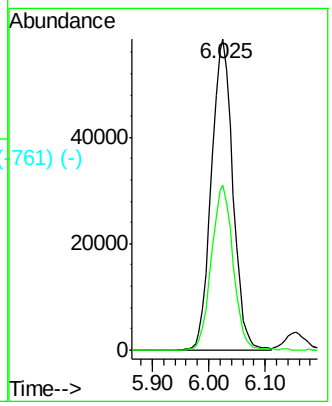
12/21/2020 3:57:56 PM

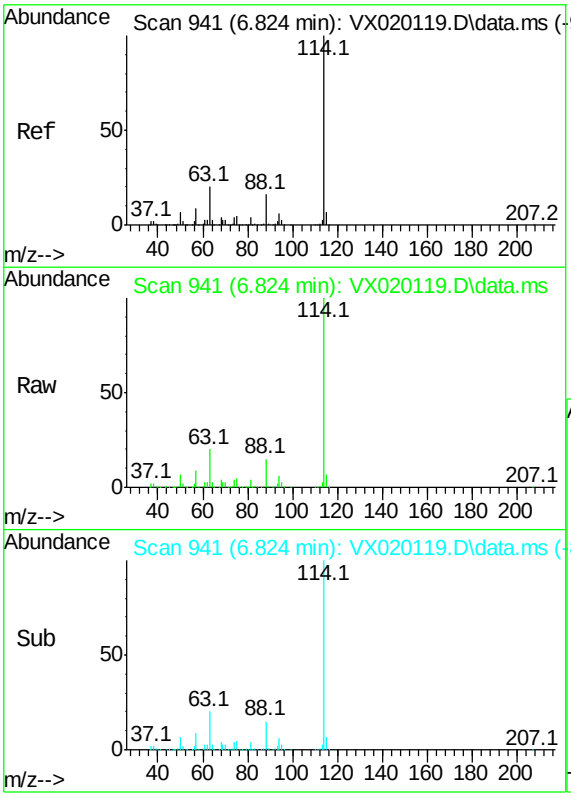


#33
1,2-Dichloroethane-d4
Concen: 52.29 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 65 Resp: 153161

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	105.4

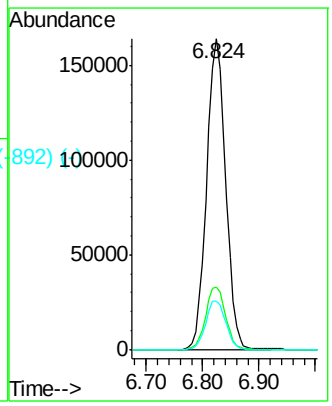




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.824 min Scan# 941
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:114 Resp: 378640

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.8
88	15.5	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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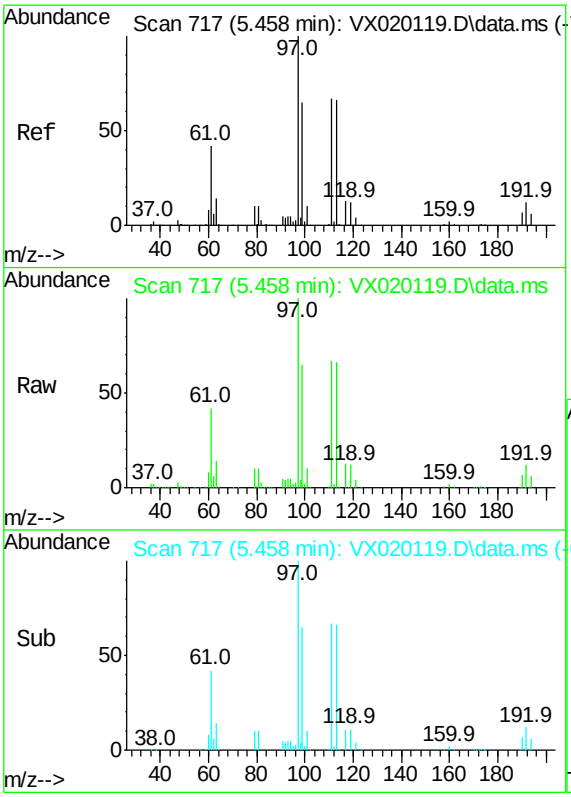
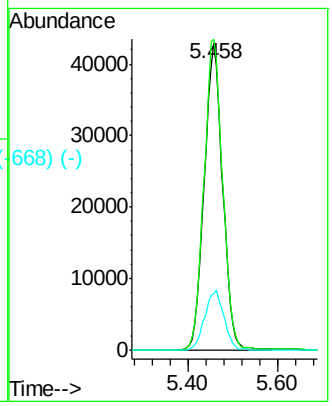
12/21/2020 3:57:56 PM

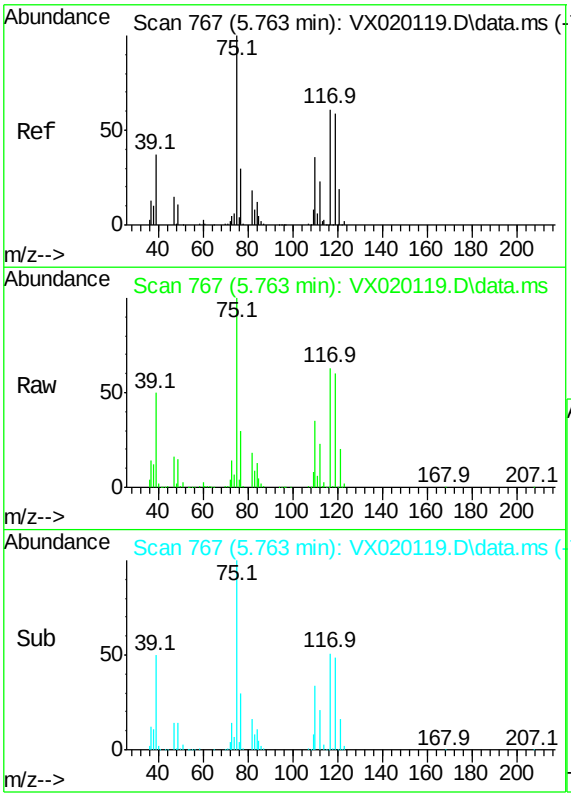


#35
Dibromofluoromethane
Concen: 49.45 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:113 Resp: 121494

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	20.0	16.7	25.1

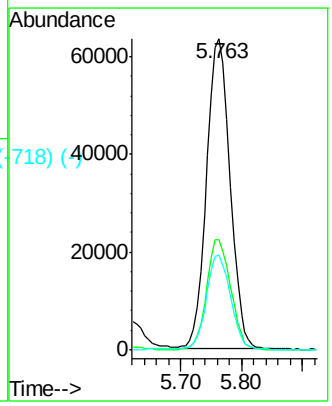




#36
1,1-Dichloropropene
Concen: 49.72 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 75 Resp: 169965

Ion	Ratio	Lower	Upper
75	100		
110	36.2	18.1	54.4
77	31.6	25.3	37.9



Instrument :
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ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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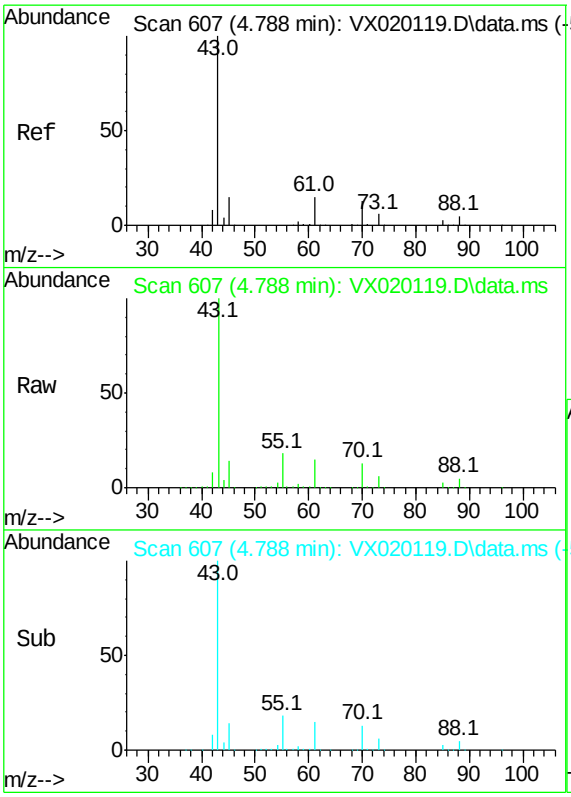
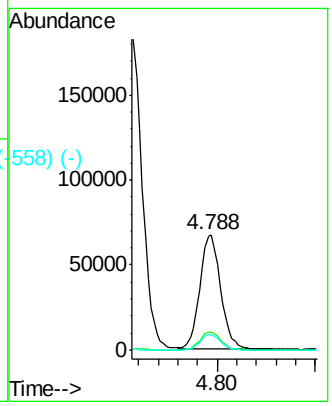
12/21/2020 3:57:56 PM

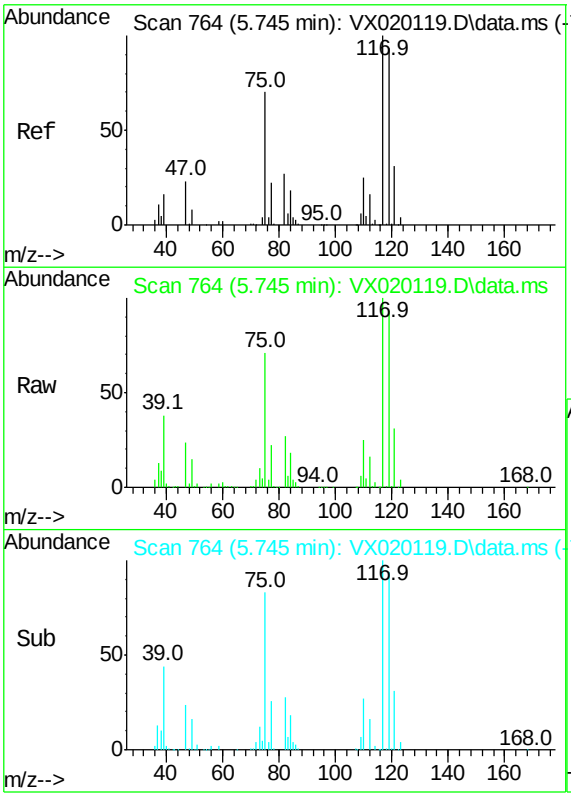


#37
Ethyl Acetate
Concen: 56.16 ug/l
RT: 4.788 min Scan# 607
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 199917

Ion	Ratio	Lower	Upper
43	100		
61	15.7	12.8	19.2
70	12.9	10.5	15.7

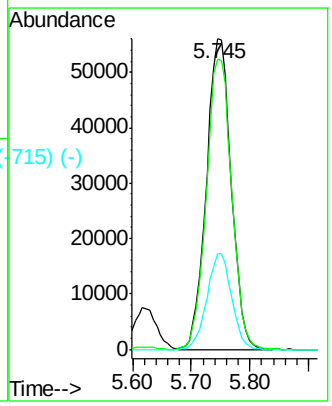




#38
Carbon Tetrachloride
Concen: 49.52 ug/l
RT: 5.745 min Scan# 764
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:117 Resp: 164735

Ion	Ratio	Lower	Upper
117	100		
119	93.2	76.2	114.2
121	30.9	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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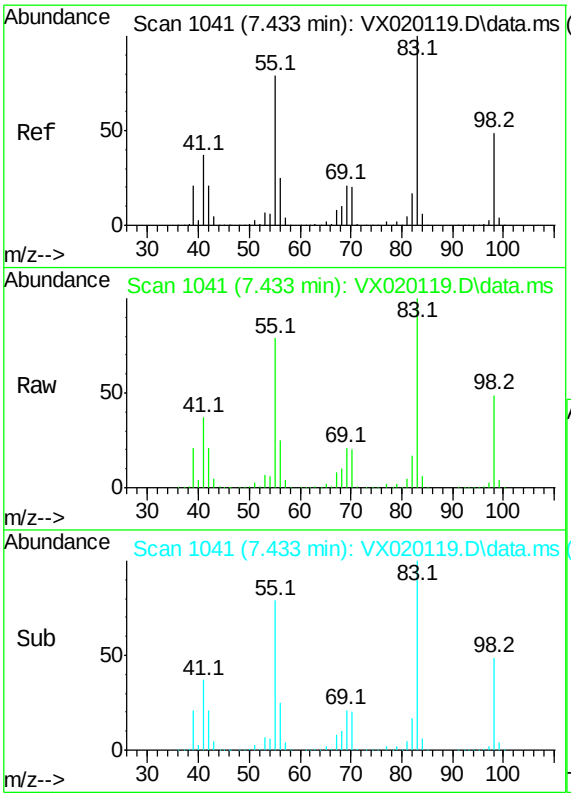
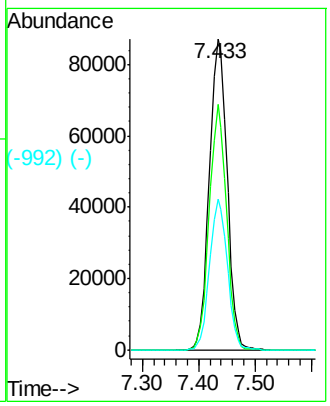
12/21/2020 3:57:56 PM

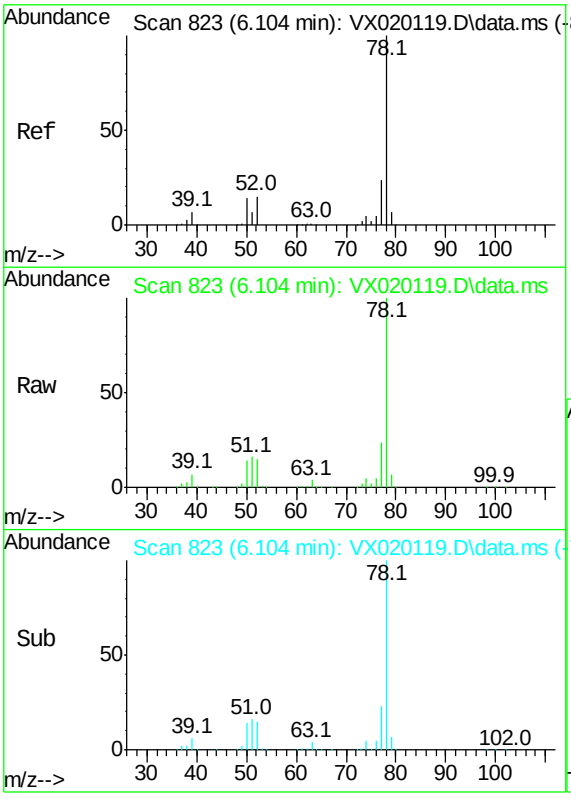


#39
Methylcyclohexane
Concen: 47.86 ug/l
RT: 7.433 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 83 Resp: 189573

Ion	Ratio	Lower	Upper
83	100		
55	78.8	58.9	88.3
98	48.7	38.1	57.1

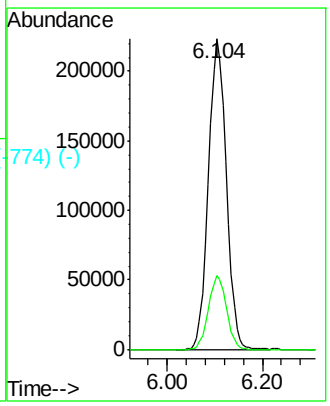




#40
Benzene
Concen: 54.30 ug/l
RT: 6.104 min Scan# 823
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 78 Resp: 577384

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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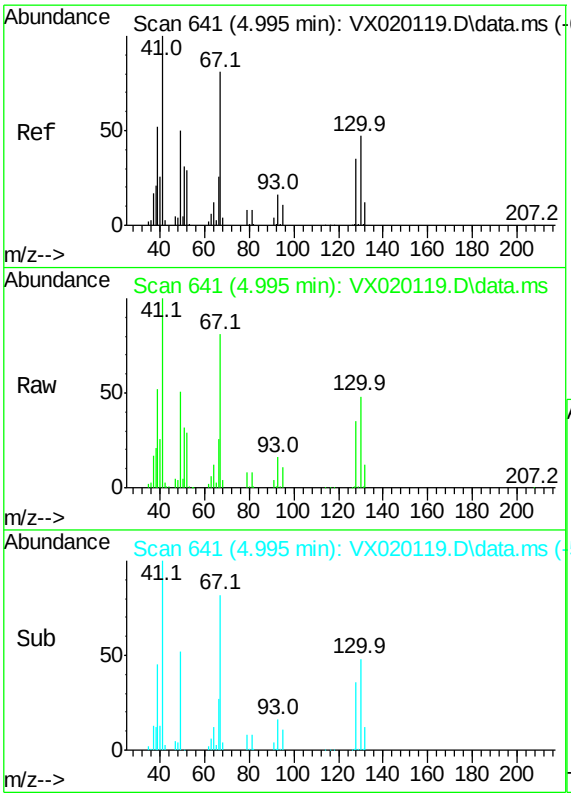
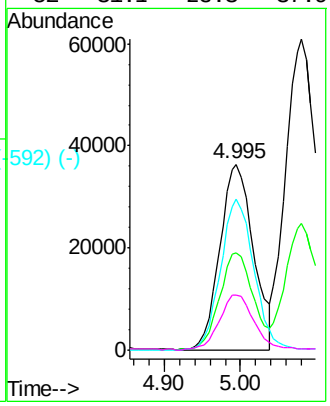
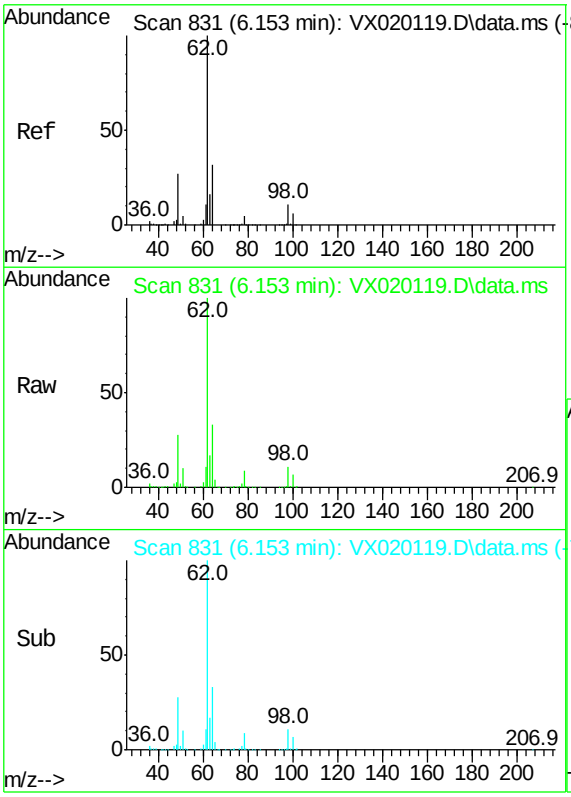


#41
Methacrylonitrile
Concen: 56.83 ug/l
RT: 4.995 min Scan# 641
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 41 Resp: 110924

Ion	Ratio	Lower	Upper
41	100		
39	52.5	42.5	63.7
67	80.8	65.0	97.6
52	31.1	25.3	37.9

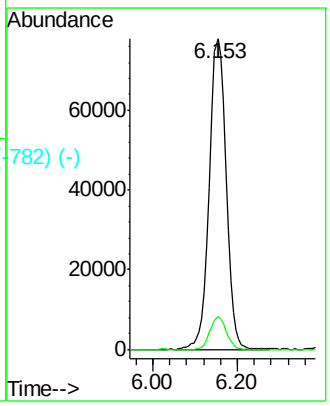




#42
1,2-Dichloroethane
Concen: 56.29 ug/l
RT: 6.153 min Scan# 831
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 62 Resp: 205810

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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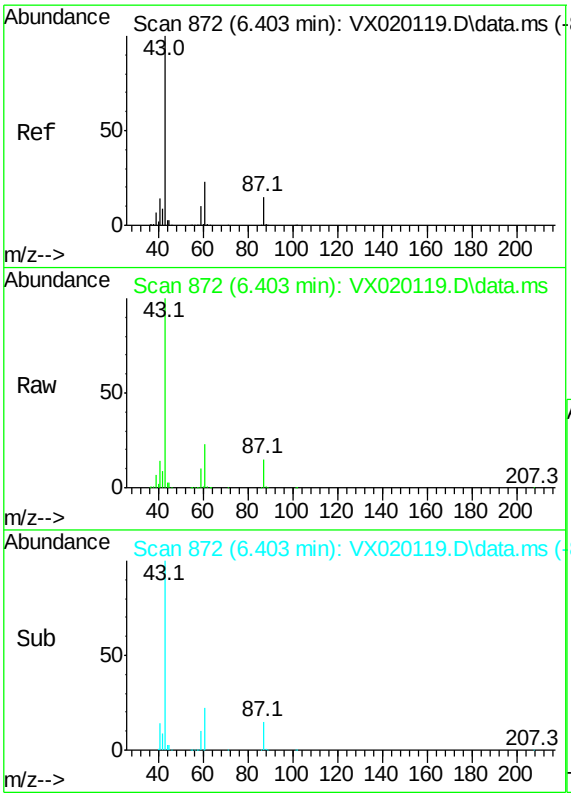
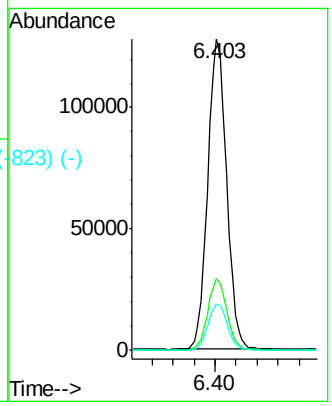
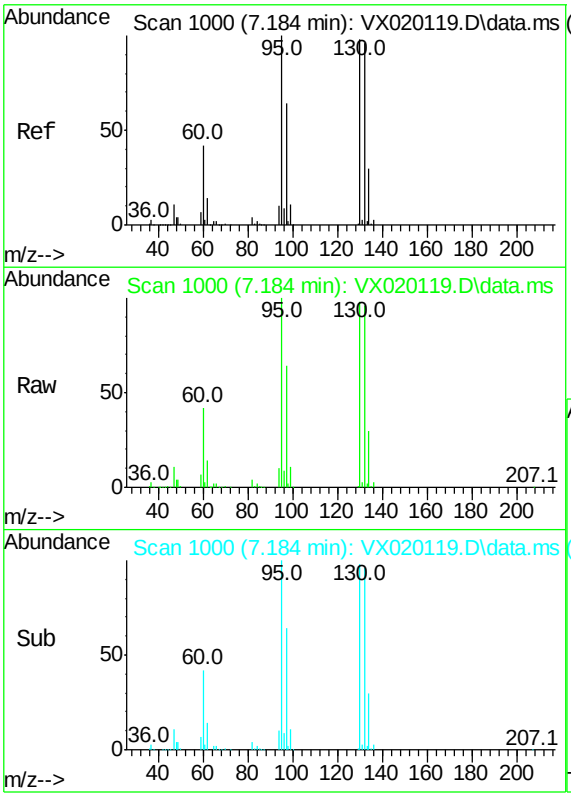


#43
Isopropyl Acetate
Concen: 55.55 ug/l
RT: 6.403 min Scan# 872
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 319862

Ion	Ratio	Lower	Upper
43	100		
61	22.9	18.2	27.4
87	15.1	12.5	18.7

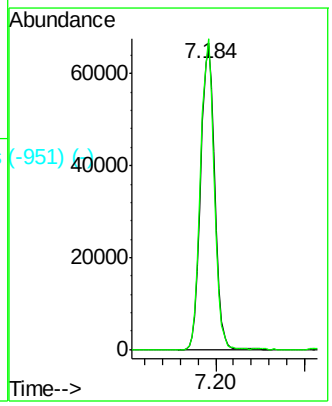




#44
Trichloroethene
Concen: 51.61 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:130 Resp: 142288

Ion	Ratio	Lower	Upper
130	100		
95	102.5	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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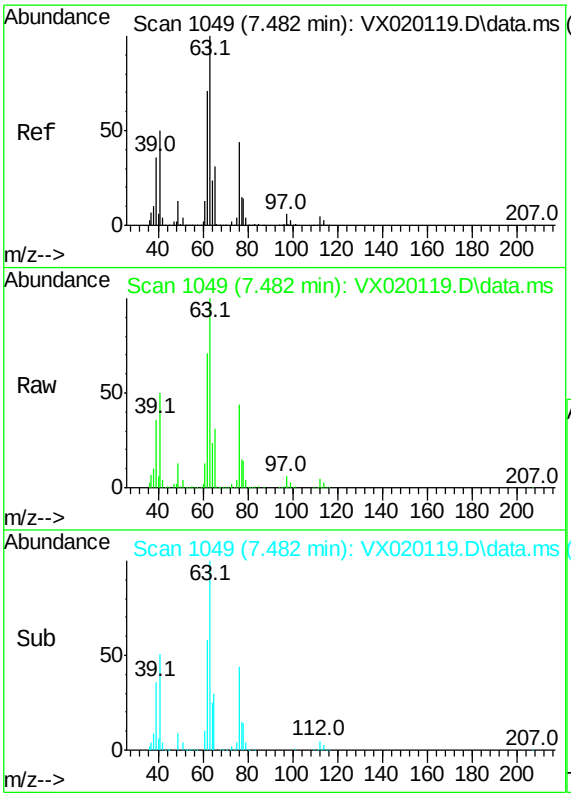
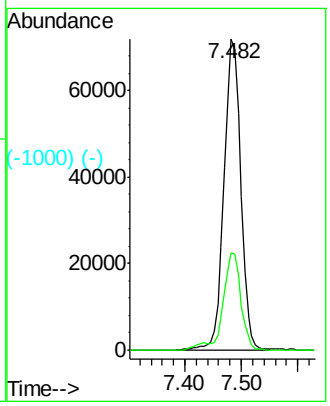
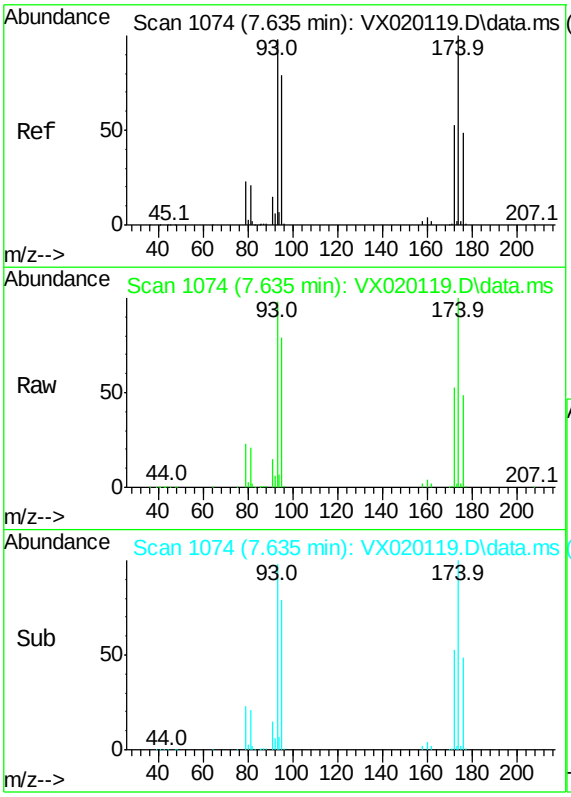


#45
1,2-Dichloropropane
Concen: 55.97 ug/l
RT: 7.482 min Scan# 1049
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 63 Resp: 149762

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.7	38.5

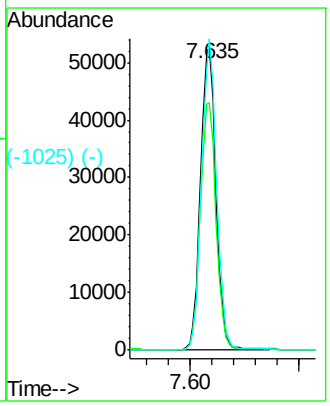




#46
Dibromomethane
Concen: 56.80 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 93 Resp: 102789

Ion	Ratio	Lower	Upper
93	100		
95	83.1	66.8	100.2
174	100.4	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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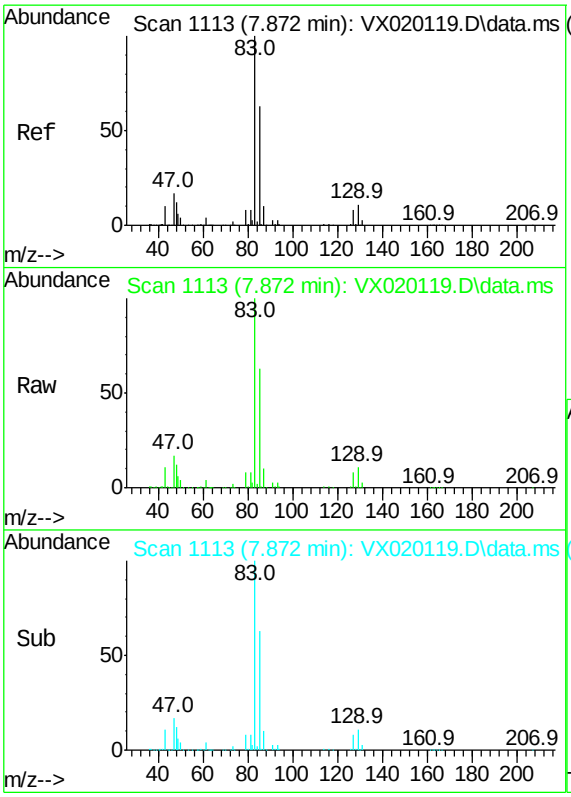
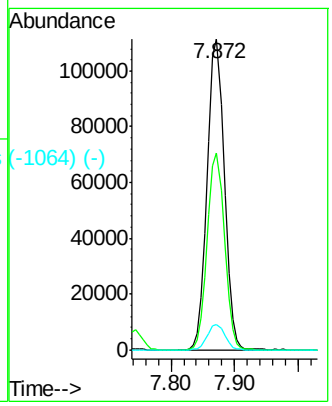
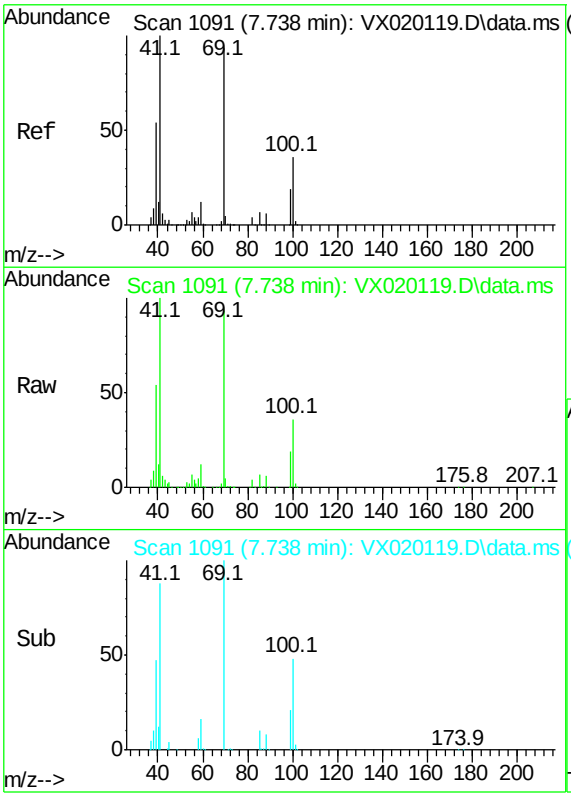


#47
Bromodichloromethane
Concen: 56.12 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 83 Resp: 200400

Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.4	77.0
127	8.0	6.8	10.2

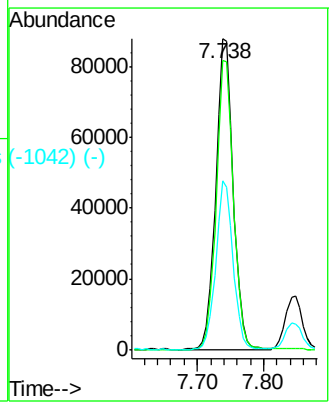




#48
Methyl methacrylate
Concen: 56.50 ug/l
RT: 7.738 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 41 Resp: 160152

Ion	Ratio	Lower	Upper
41	100		
69	92.9	76.0	114.0
39	53.9	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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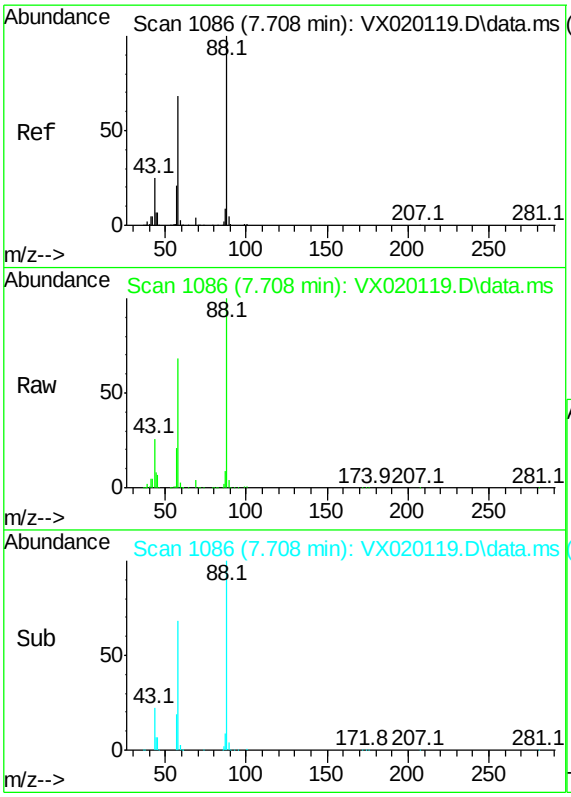
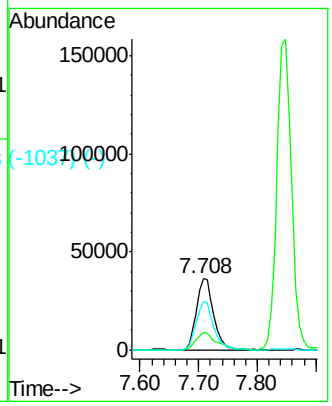
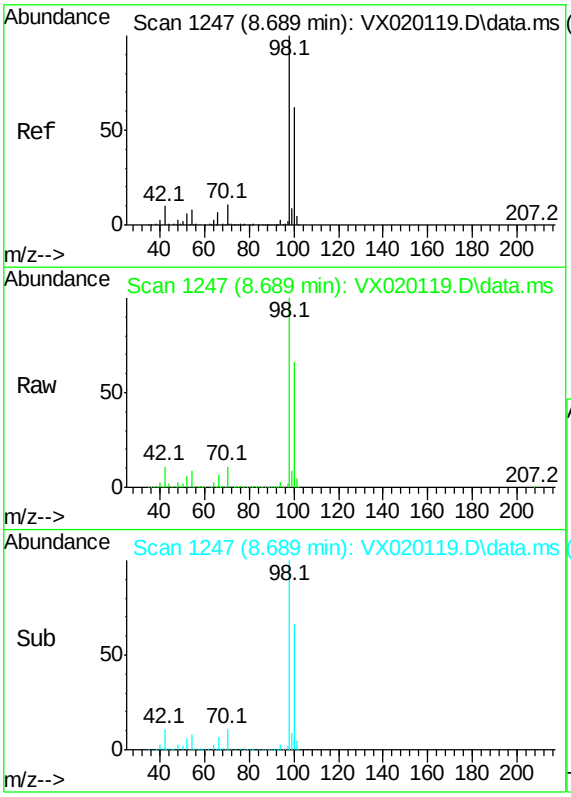


#49
1,4-Dioxane
Concen: 1077.93 ug/l
RT: 7.708 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 88 Resp: 73280

Ion	Ratio	Lower	Upper
88	100		
43	29.0	23.2	34.8
58	69.4	55.0	82.4

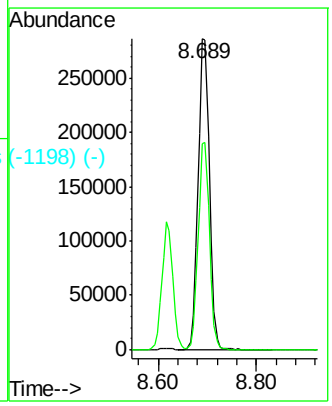




#50
Toluene-d8
Concen: 49.16 ug/l
RT: 8.689 min Scan# 1247
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 98 Resp: 459075

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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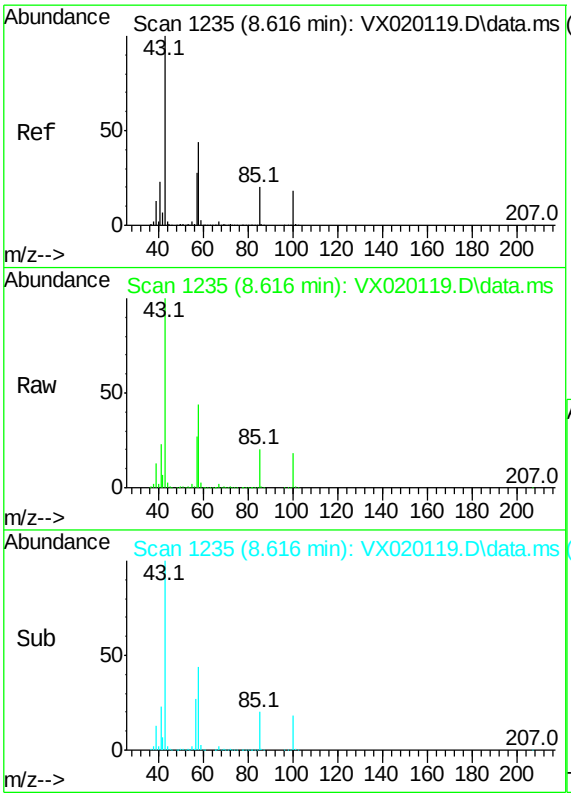
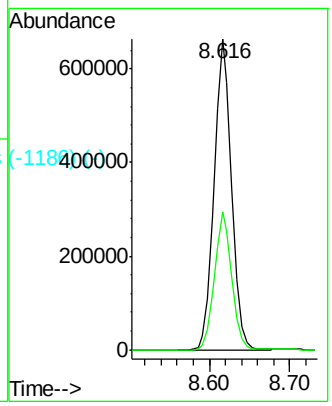
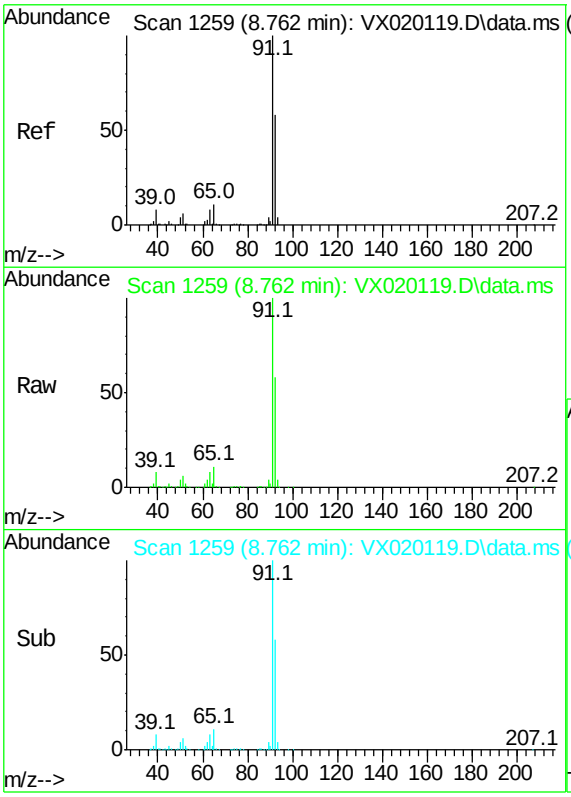


#51
4-Methyl-2-Pentanone
Concen: 285.07 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 1005041

Ion	Ratio	Lower	Upper
43	100		
58	43.9	35.4	53.0

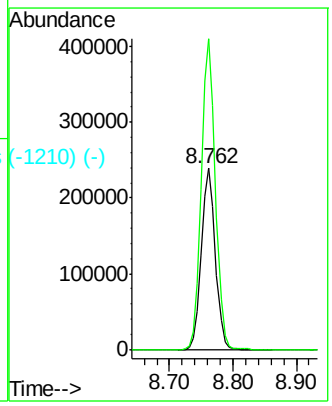




#52
Toluene
Concen: 53.81 ug/l
RT: 8.762 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 92 Resp: 356357

Ion	Ratio	Lower	Upper
92	100		
91	172.5	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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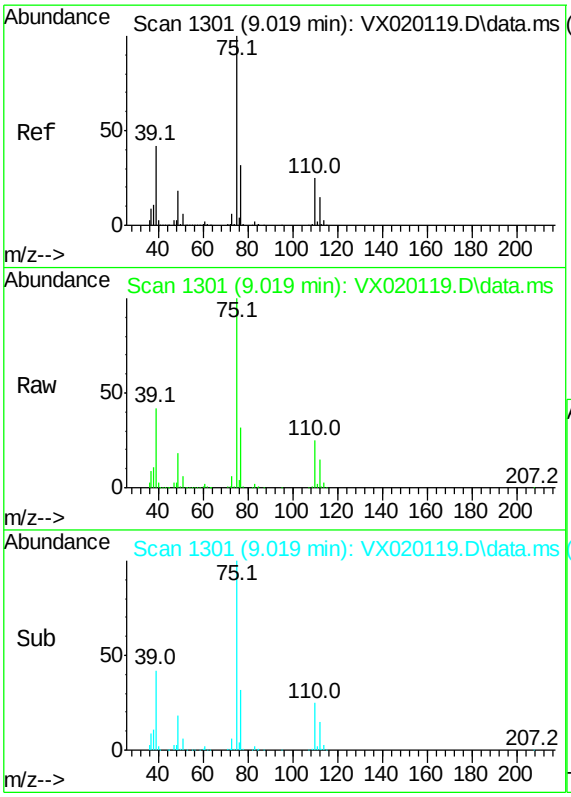
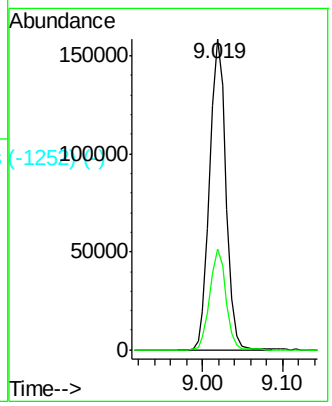
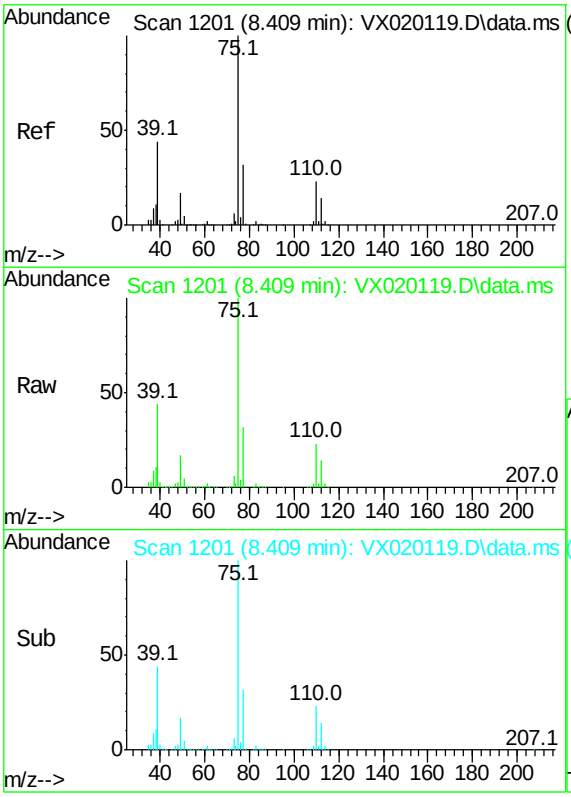


#53
t-1,3-Dichloropropene
Concen: 56.79 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 75 Resp: 224653

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.9	37.3

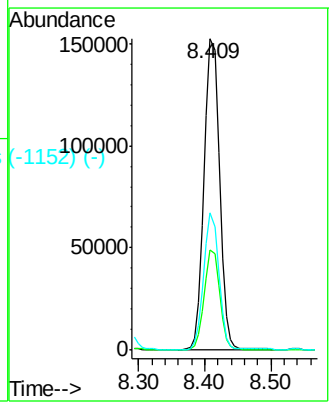




#54
cis-1,3-Dichloropropene
Concen: 57.14 ug/l
RT: 8.409 min Scan# 1201
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 75 Resp: 246258

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5
39	43.8	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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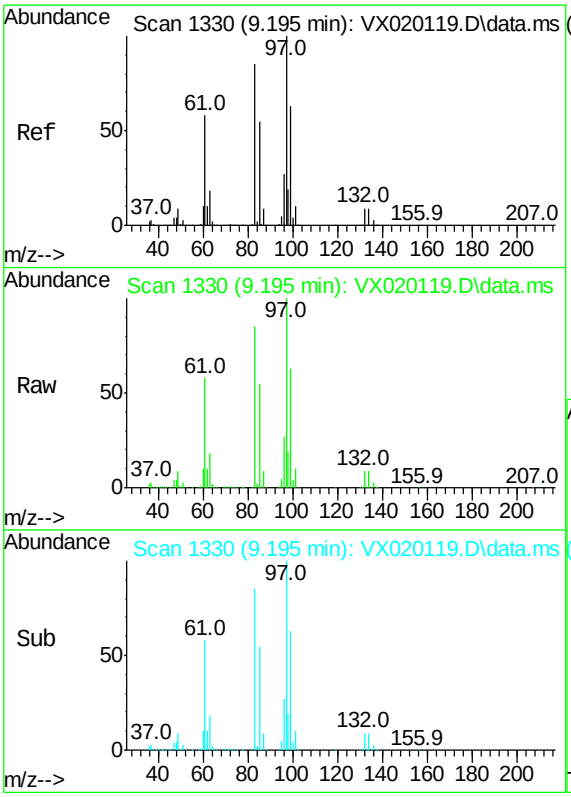
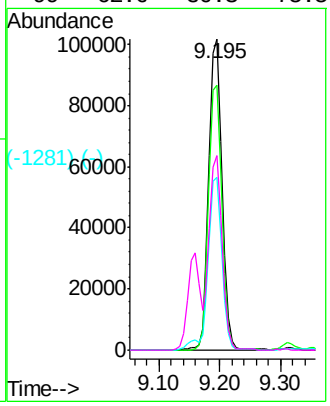
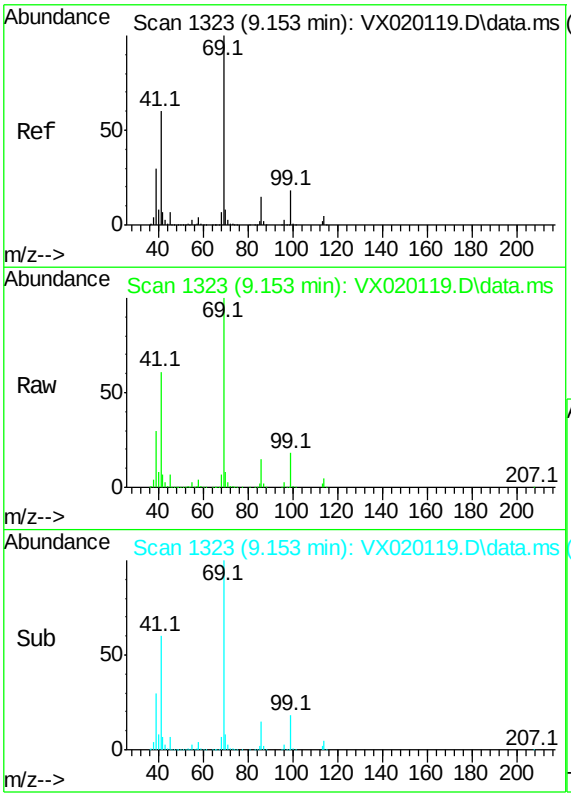


#55
1,1,2-Trichloroethane
Concen: 56.17 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 97 Resp: 151512

Ion	Ratio	Lower	Upper
97	100		
83	85.1	69.3	103.9
85	55.4	44.3	66.5
99	62.6	50.3	75.5

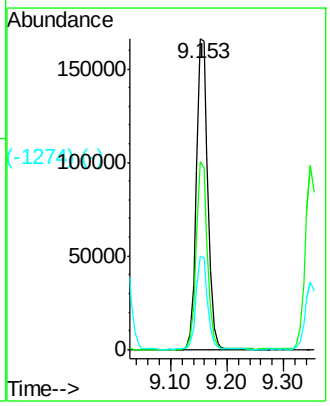




#56
Ethyl methacrylate
Concen: 57.15 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 69 Resp: 232852

Ion	Ratio	Lower	Upper
69	100		
41	59.1	46.8	70.2
39	30.0	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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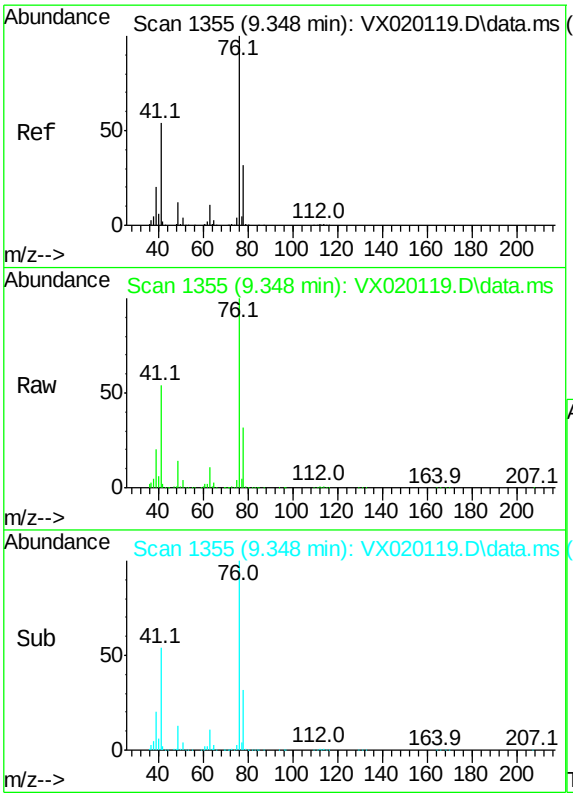
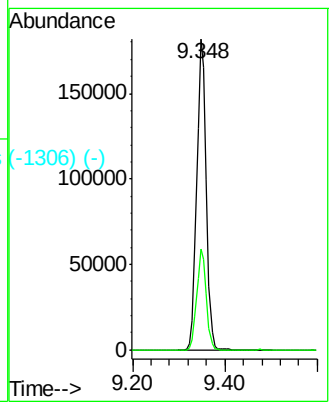
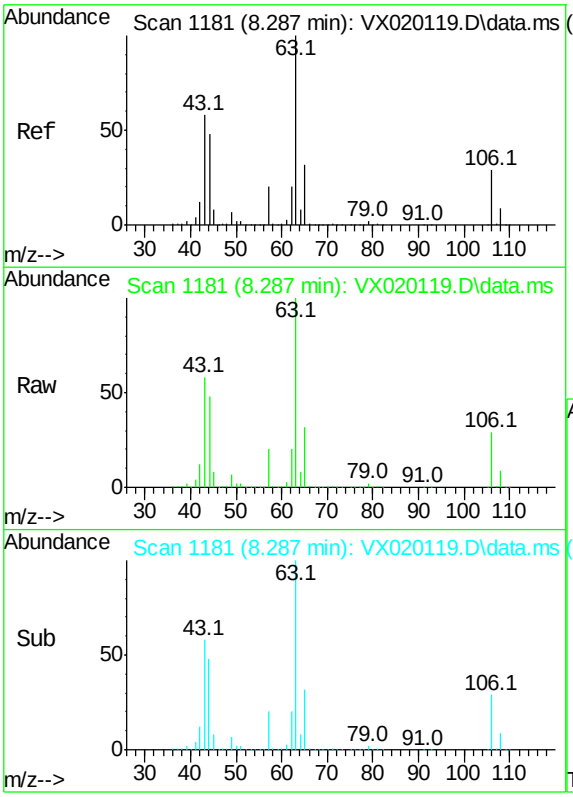


#57
1,3-Dichloropropane
Concen: 56.23 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 76 Resp: 259592

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.2

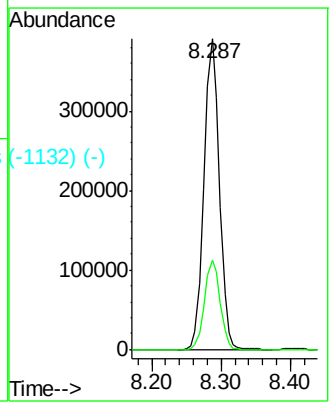




#58
2-Chloroethyl Vinyl ether
Concen: 276.76 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 63 Resp: 596529

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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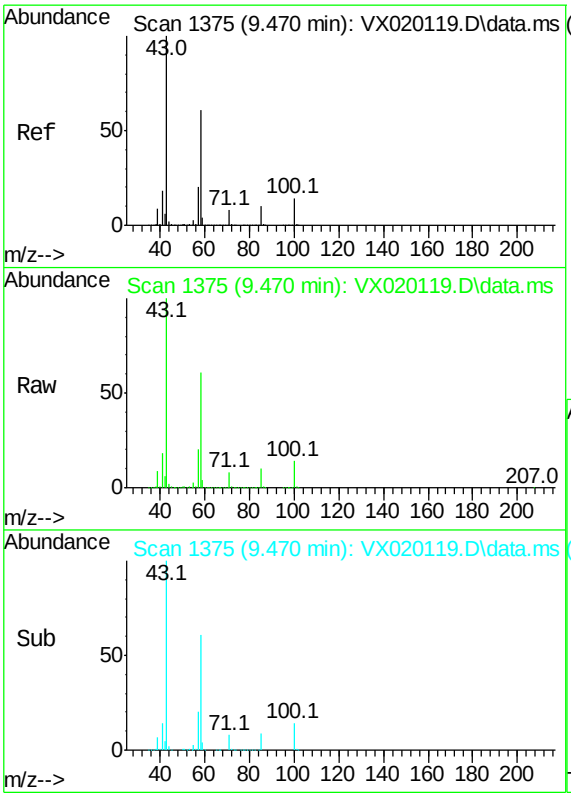
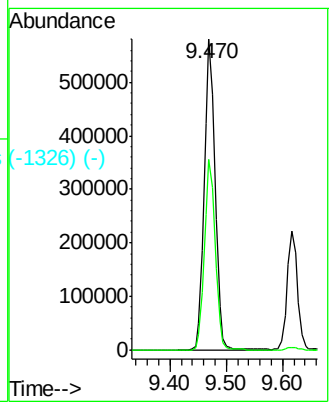
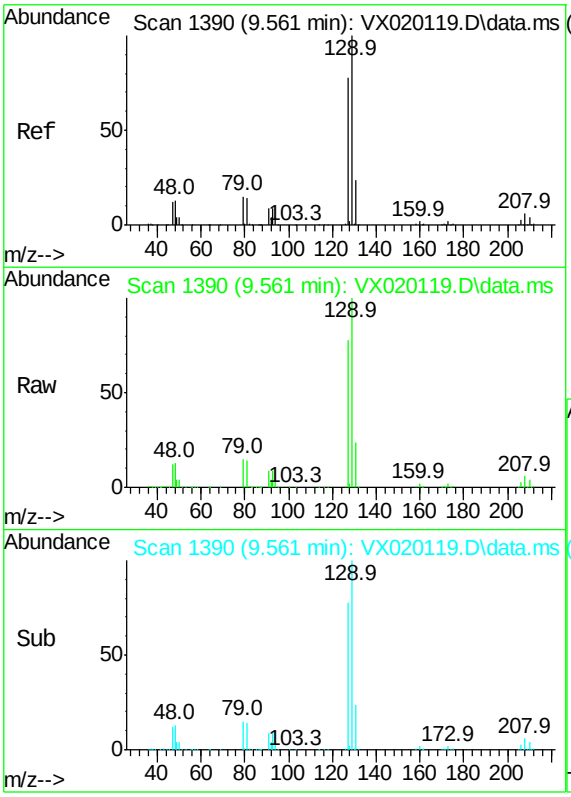


#58
2-Hexanone
Concen: 281.06 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 764367

Ion	Ratio	Lower	Upper
43	100		
58	61.3	30.9	92.8

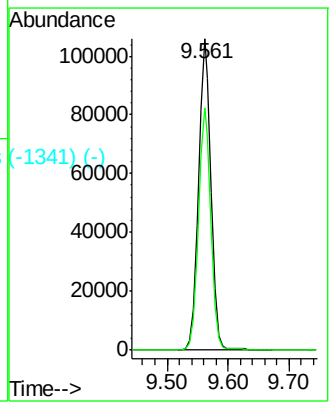




#60
Dibromochloromethane
Concen: 56.56 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:129 Resp: 154249

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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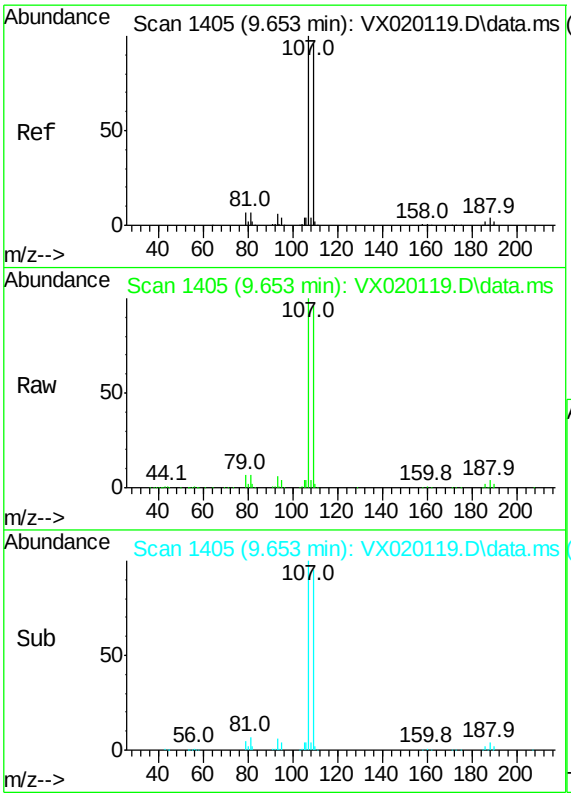
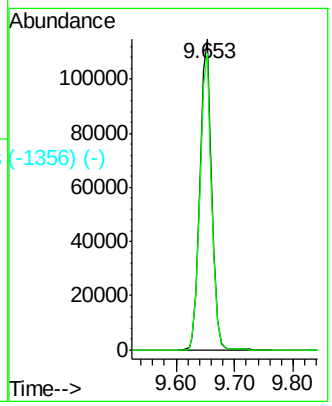
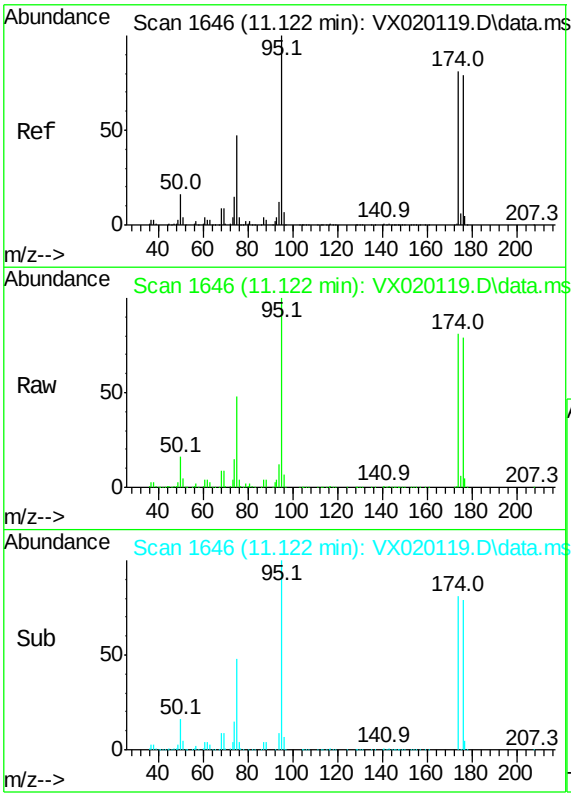


#61
1,2-Dibromoethane
Concen: 55.74 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:107 Resp: 159670

Ion	Ratio	Lower	Upper
107	100		
109	94.8	75.8	113.6

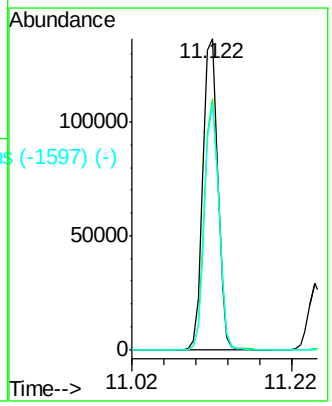




#62
4-Bromofluorobenzene
Concen: 49.38 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 95 Resp: 175694

Ion	Ratio	Lower	Upper
95	100		
174	78.7	0.0	154.6
176	75.9	0.0	155.8



Instrument :
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ClientSampleId :
VSTDICCC050

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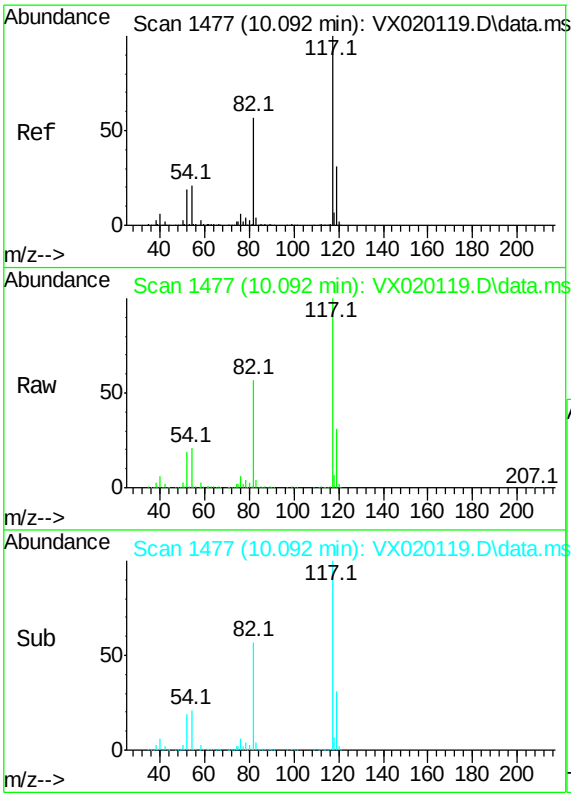
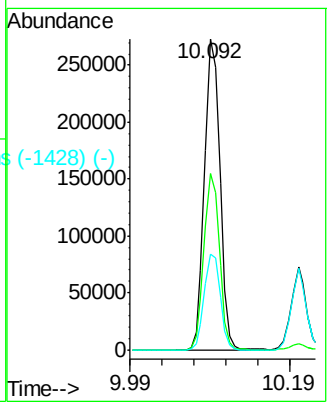
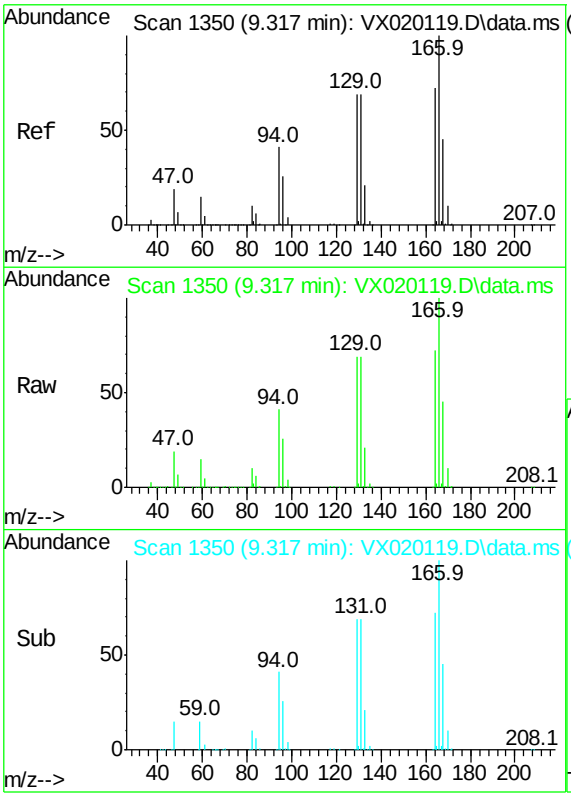


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:117 Resp: 366144

Ion	Ratio	Lower	Upper
117	100		
82	56.9	47.4	71.2
119	30.7	26.6	39.8

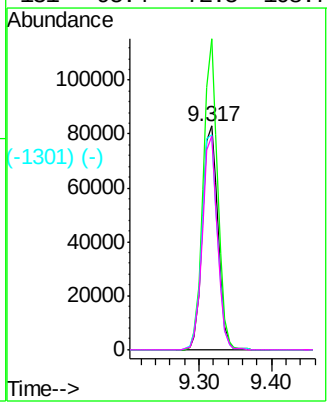




#64
Tetrachloroethene
Concen: 50.25 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:164 Resp: 123201

Ion	Ratio	Lower	Upper
164	100		
166	139.1	103.4	155.2
129	96.3	70.8	106.2
131	95.4	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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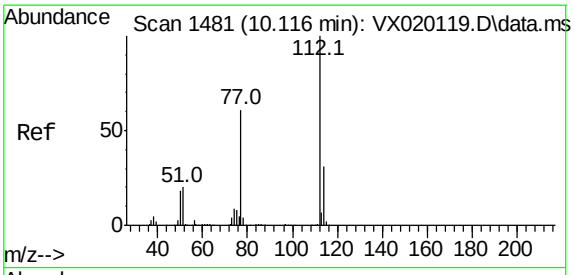
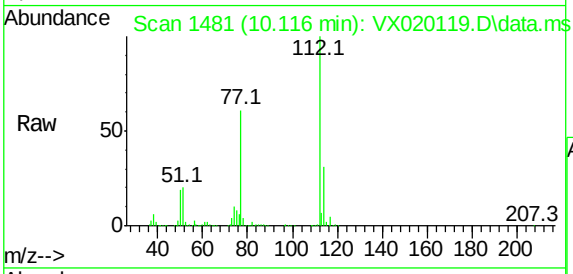
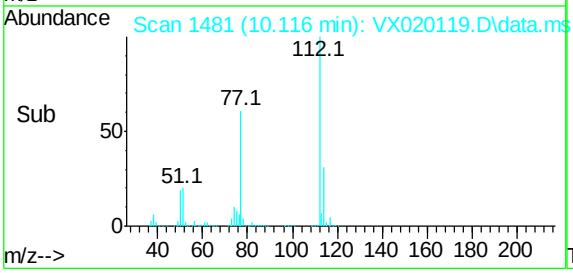


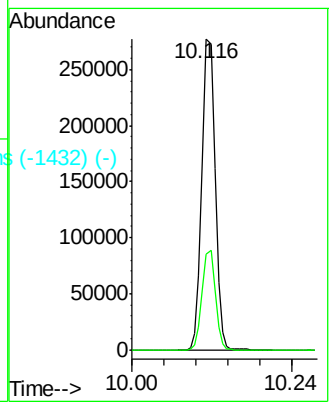
#65
Chlorobenzene
Concen: 52.11 ug/l
RT: 10.116 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

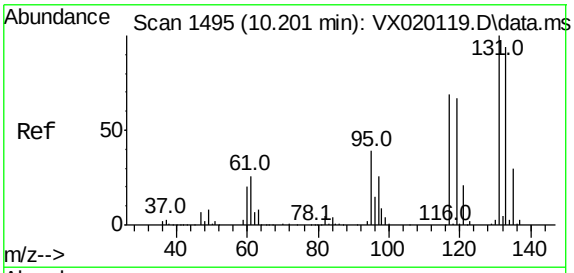
Tgt Ion:112 Resp: 382575

Ion	Ratio	Lower	Upper
112	100		
114	30.8	25.8	38.6





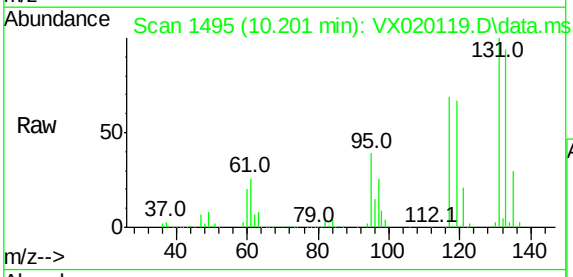


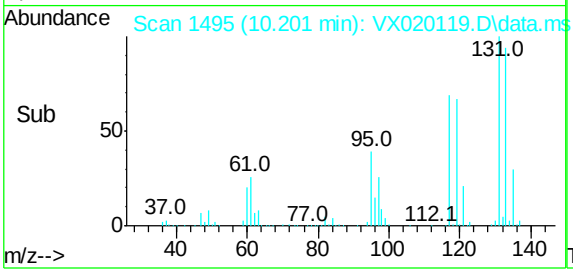


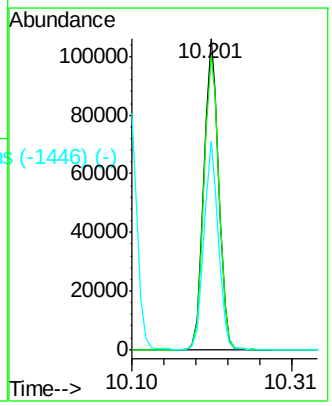
#66
1,1,1,2-Tetrachloroethane
Concen: 53.15 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:131 Resp: 140493

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.7	143.1
119	65.5	32.1	96.5







Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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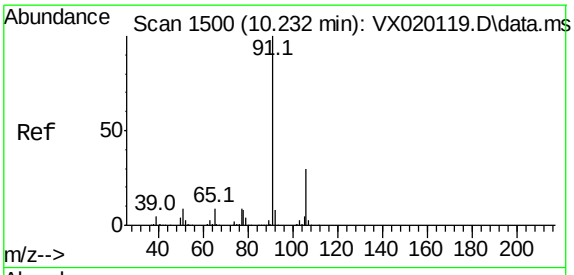
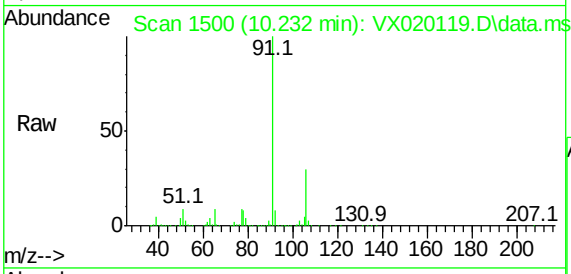
12/21/2020 3:57:56 PM

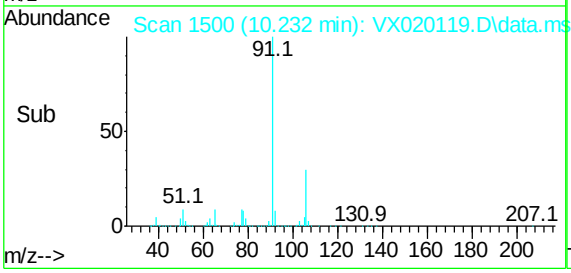


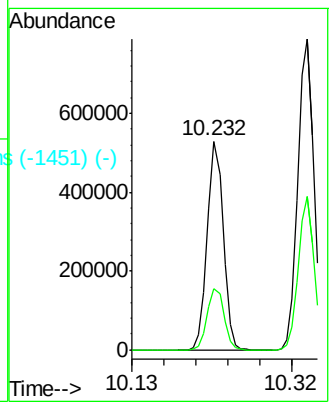
#67
Ethyl Benzene
Concen: 51.54 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

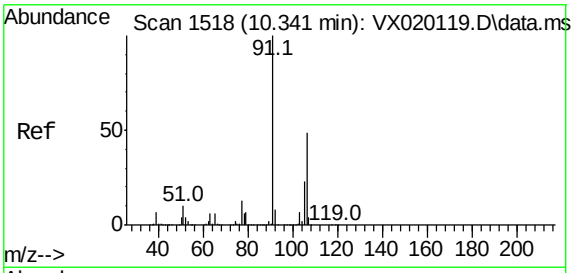
Tgt Ion: 91 Resp: 667517

Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.6	37.0





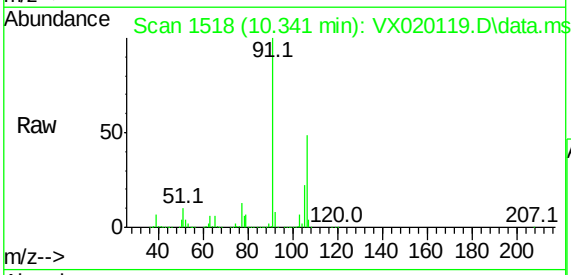


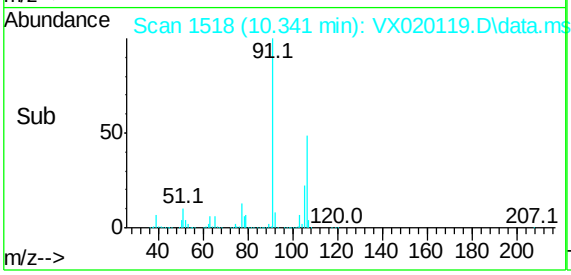


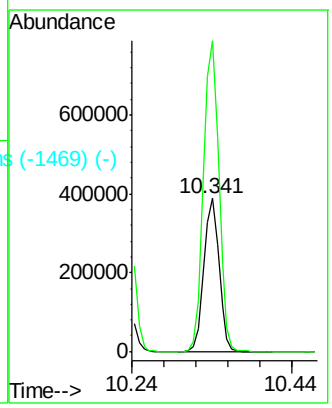
#68
m/p-Xylenes
Concen: 103.92 ug/l
RT: 10.341 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:106 Resp: 507562

Ion	Ratio	Lower	Upper
106	100		
91	206.7	162.8	244.2







Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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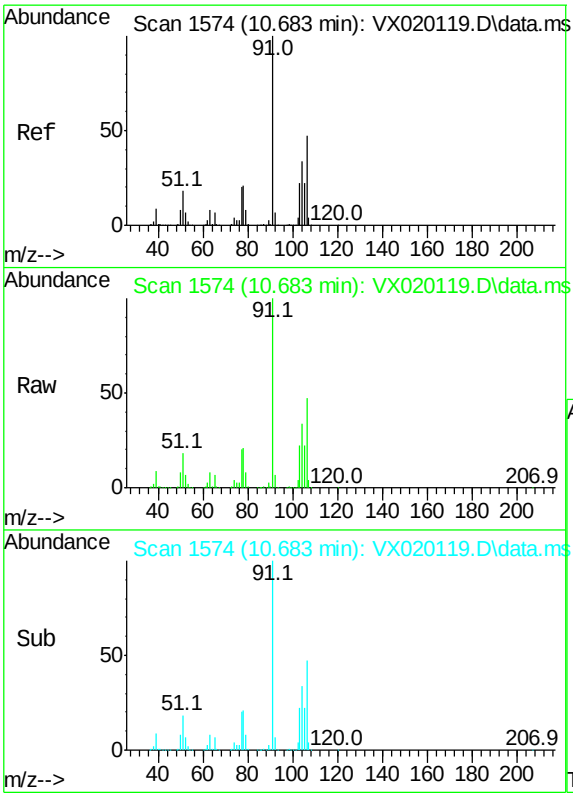
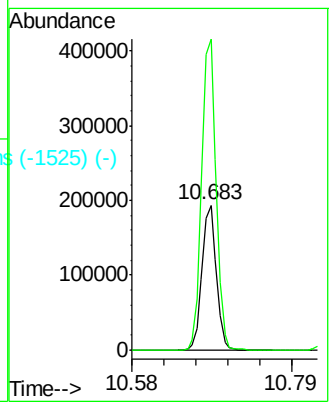
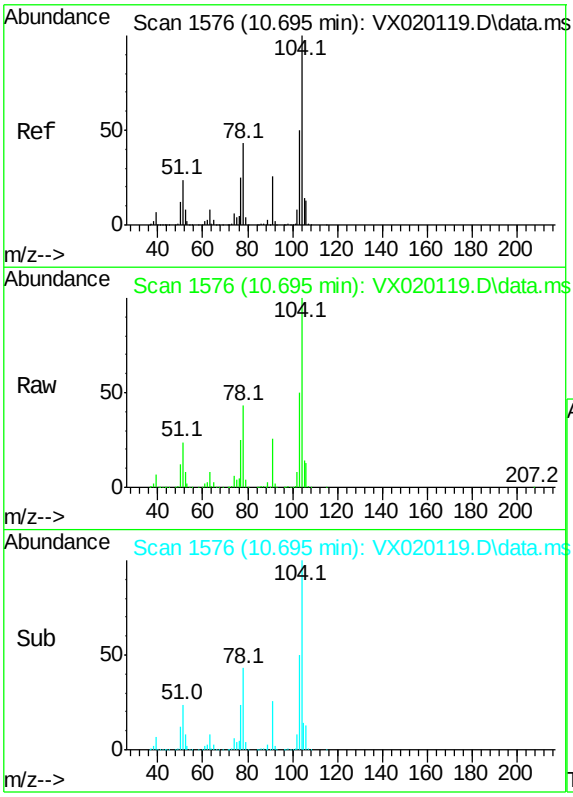


#69
o-Xylene
Concen: 52.70 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:106 Resp: 248356

Ion	Ratio	Lower	Upper
106	100		
91	217.6	108.1	324.2

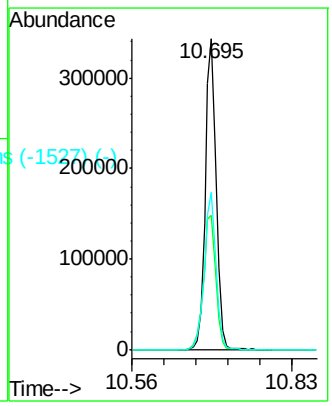




#70
Styrene
Concen: 54.23 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:104 Resp: 431858

Ion	Ratio	Lower	Upper
104	100		
78	49.8	40.0	60.0
103	54.5	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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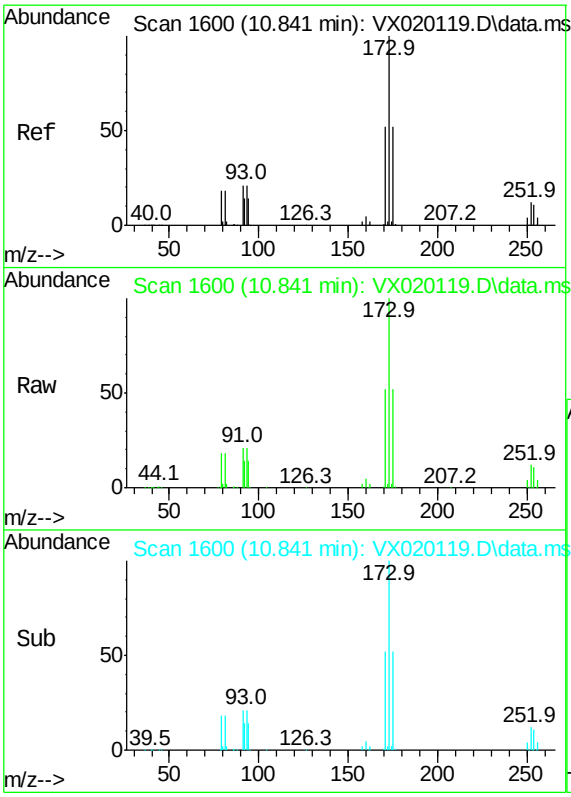
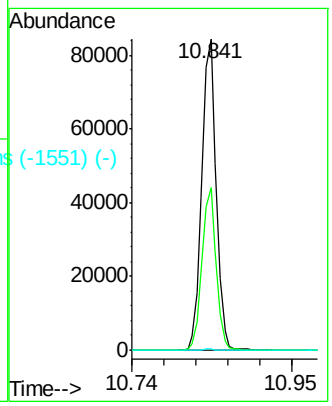
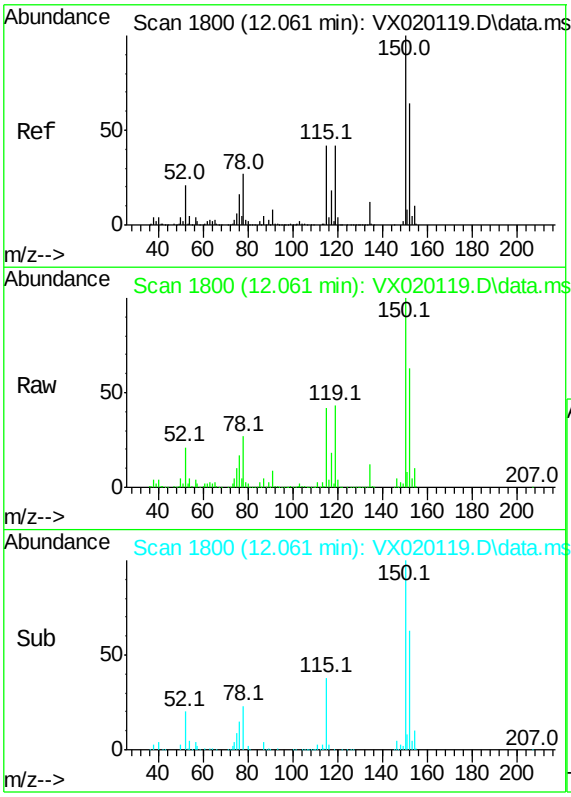


#71
Bromoform
Concen: 53.19 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:173 Resp: 109667

Ion	Ratio	Lower	Upper
173	100		
175	51.0	23.9	71.8
254	0.1	0.1	0.1

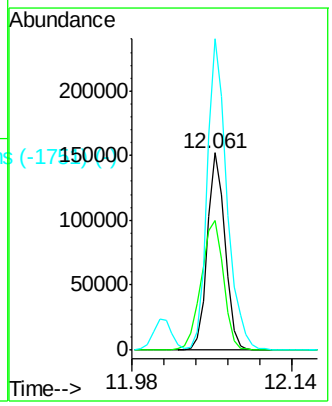




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:152 Resp: 181217

Ion	Ratio	Lower	Upper
152	100		
115	83.7	41.1	123.3
150	176.0	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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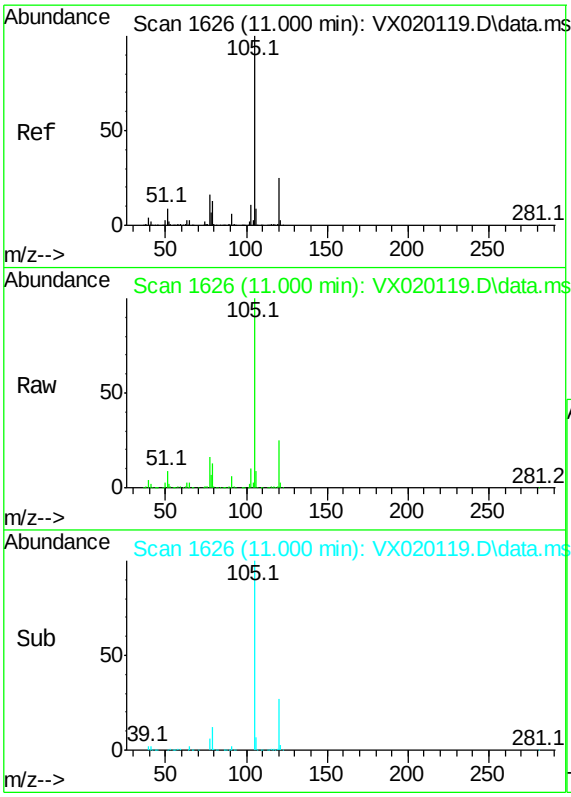
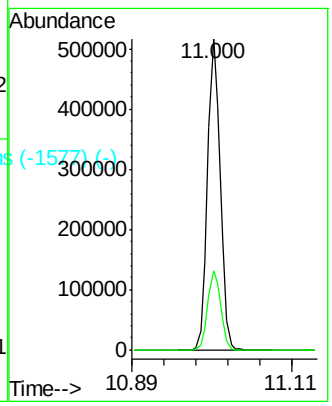
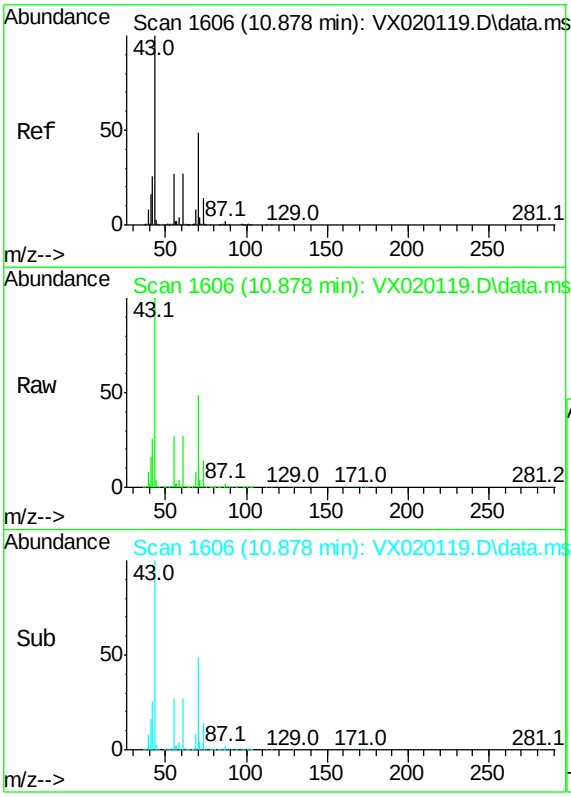


#73
Isopropylbenzene
Concen: 50.59 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:105 Resp: 627244

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6

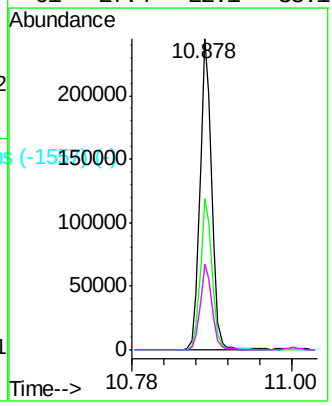




#74
N-amyl acetate
Concen: 55.13 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 43 Resp: 278082

Ion	Ratio	Lower	Upper
43	100		
70	48.8	39.0	58.6
55	27.9	21.5	32.3
61	27.4	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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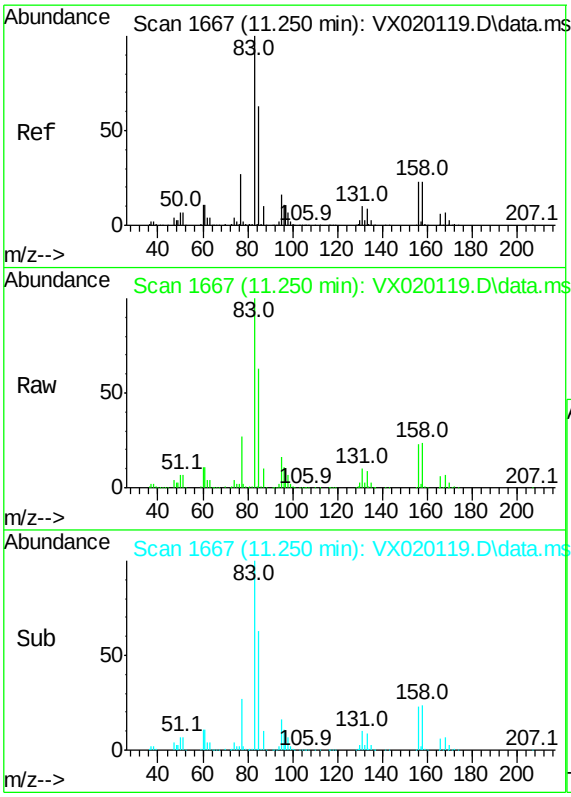
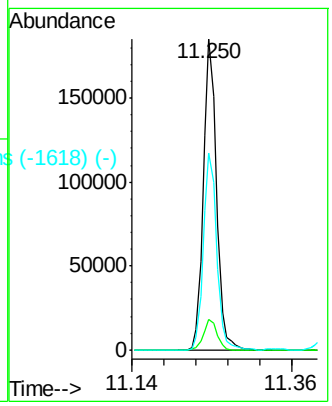
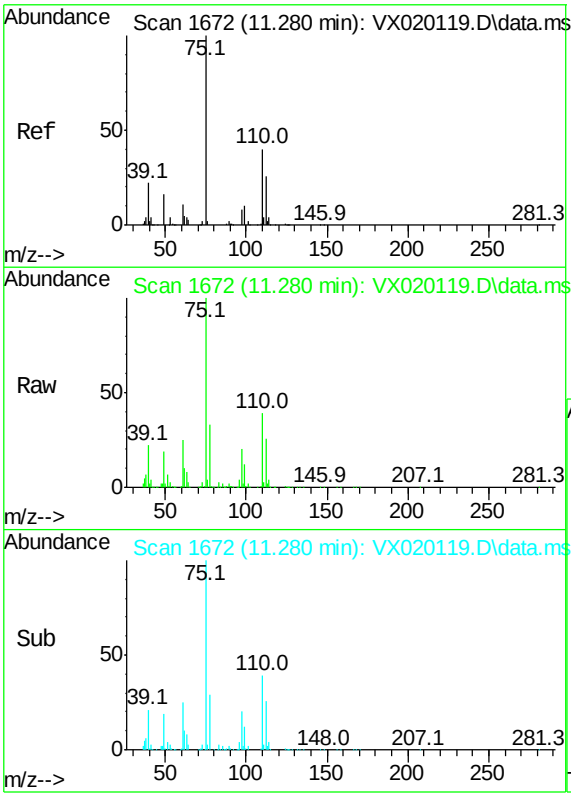


#75
1,1,2,2-Tetrachloroethane
Concen: 53.23 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 83 Resp: 235632

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.2
85	64.5	31.8	95.4

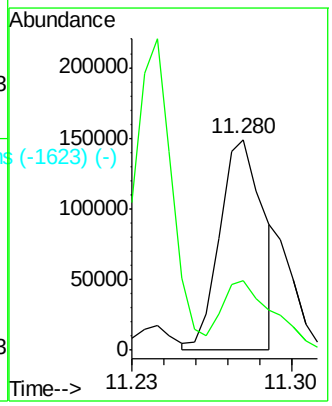




#76
1,2,3-Trichloropropane
Concen: 53.30 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 75 Resp: 219676

Ion	Ratio	Lower	Upper
75	100		
77	39.1	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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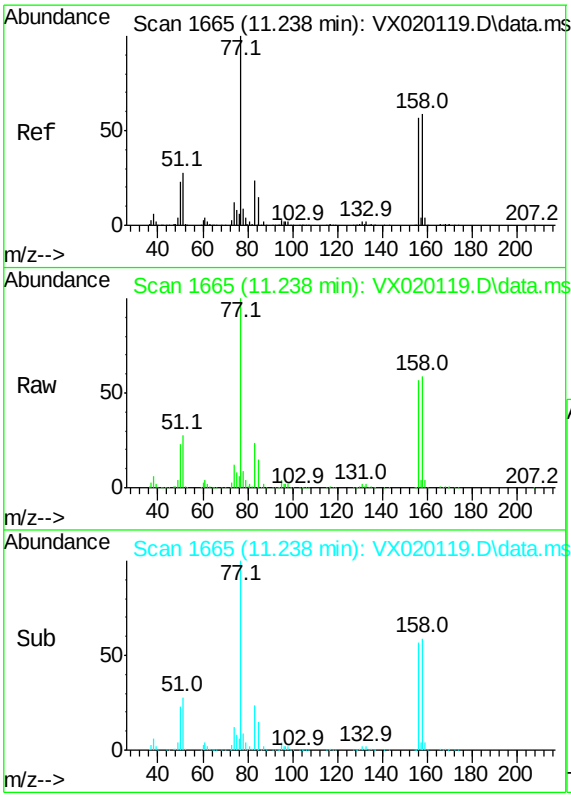
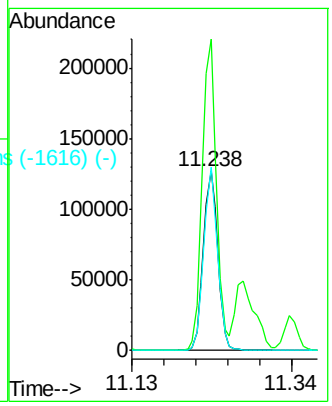
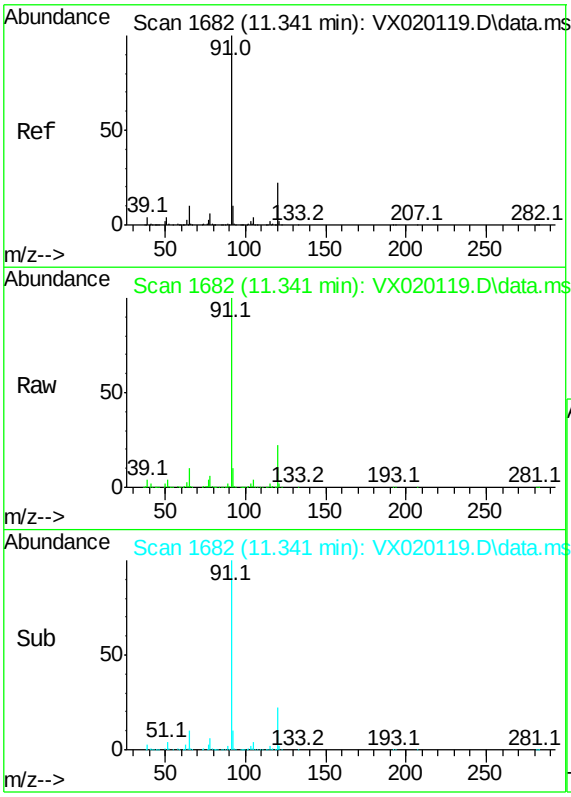


#77
Bromobenzene
Concen: 51.52 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:156 Resp: 164909

Ion	Ratio	Lower	Upper
156	100		
77	171.6	82.8	248.6
158	97.1	49.1	147.4

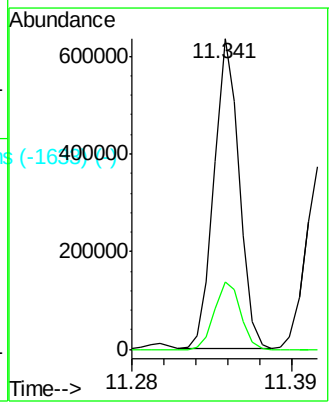




#78
n-propylbenzene
Concen: 51.12 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 91 Resp: 723194

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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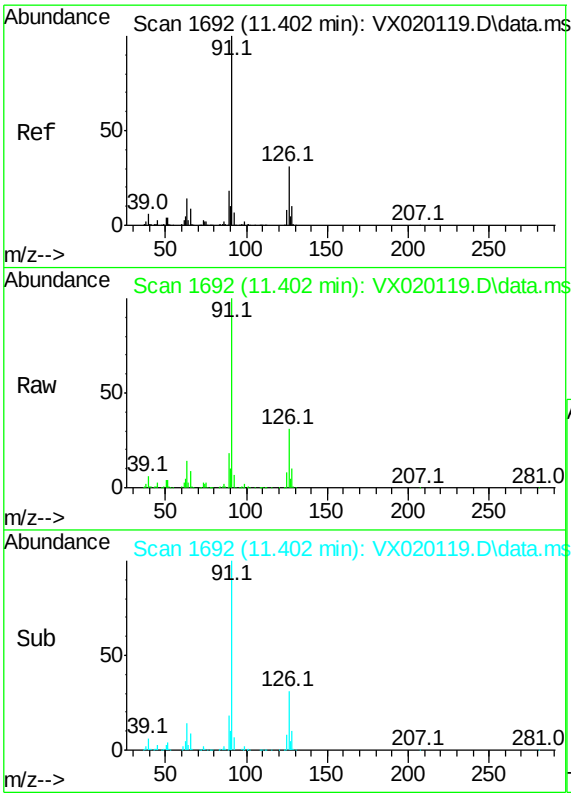
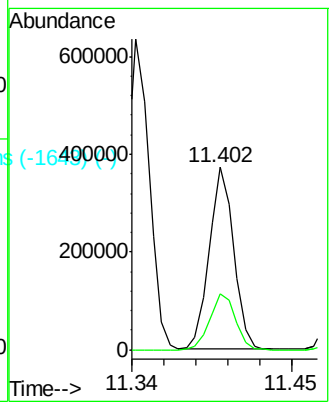
12/21/2020 3:57:56 PM

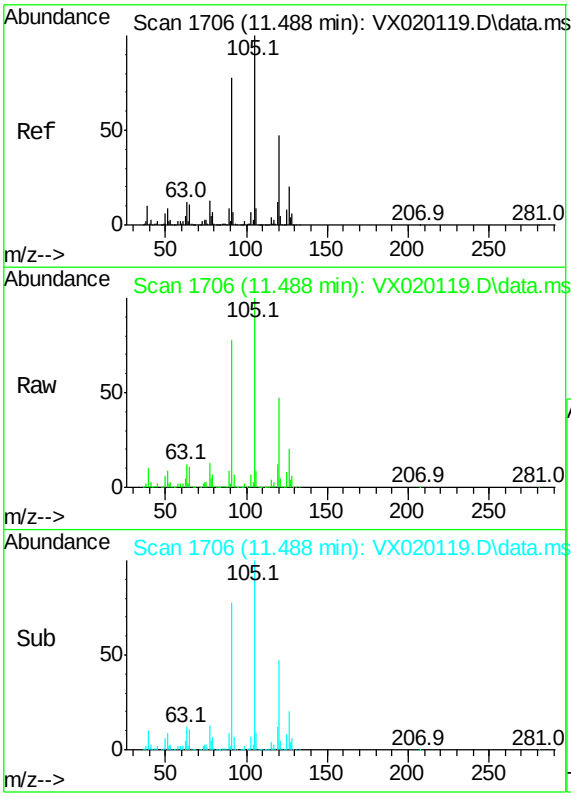


#70
2-Chlorotoluene
Concen: 52.25 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 91 Resp: 459440

Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.6	49.8

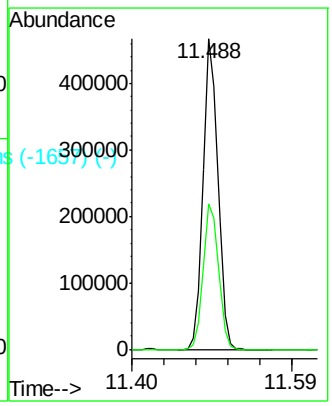




#89
1,3,5-Trimethylbenzene
Concen: 52.18 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:105 Resp: 546391

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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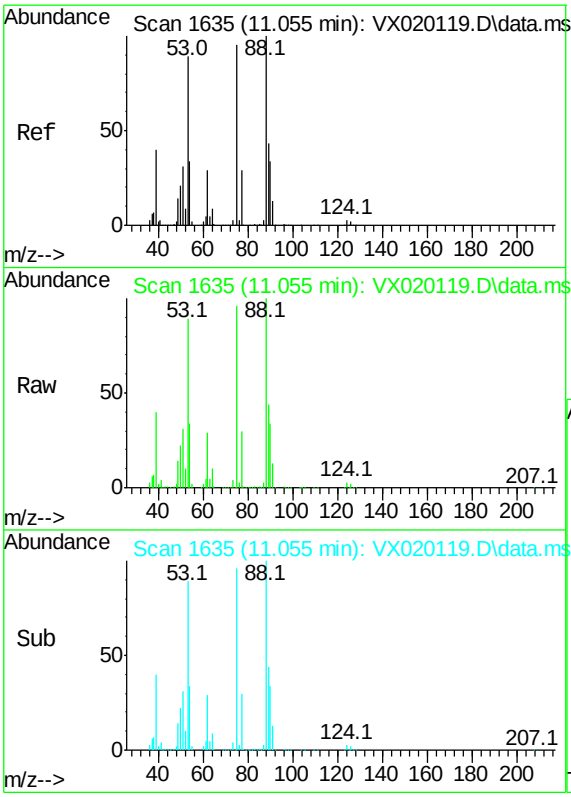
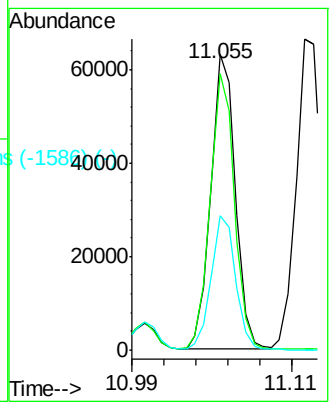
12/21/2020 3:57:56 PM

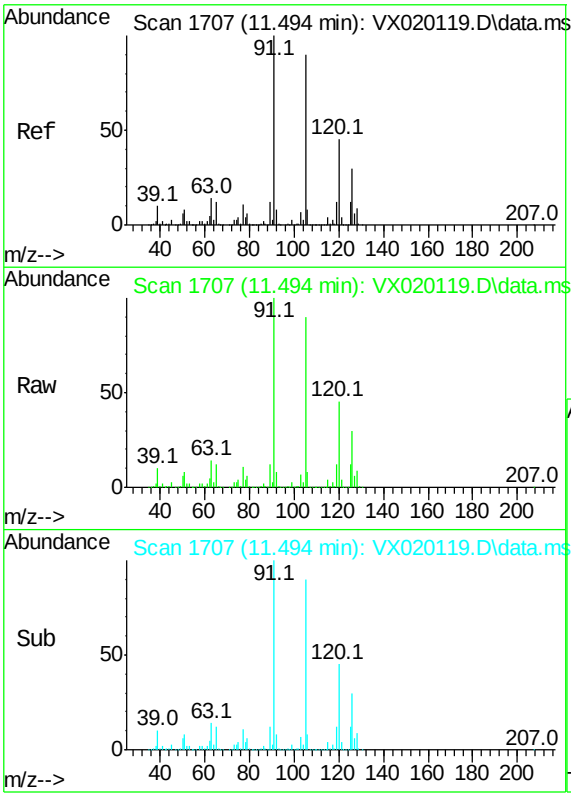


#81
trans-1,4-Dichloro-2-butene
Concen: 54.84 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 75 Resp: 78023

Ion	Ratio	Lower	Upper
75	100		
53	92.9	74.5	111.7
89	45.6	37.9	56.9

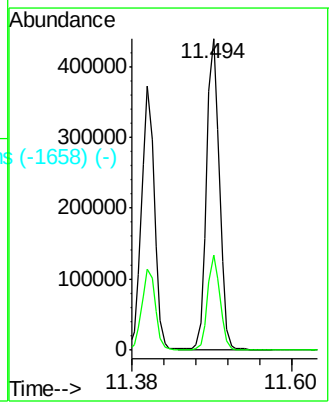




#82
4-Chlorotoluene
Concen: 52.53 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 91 Resp: 541553

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
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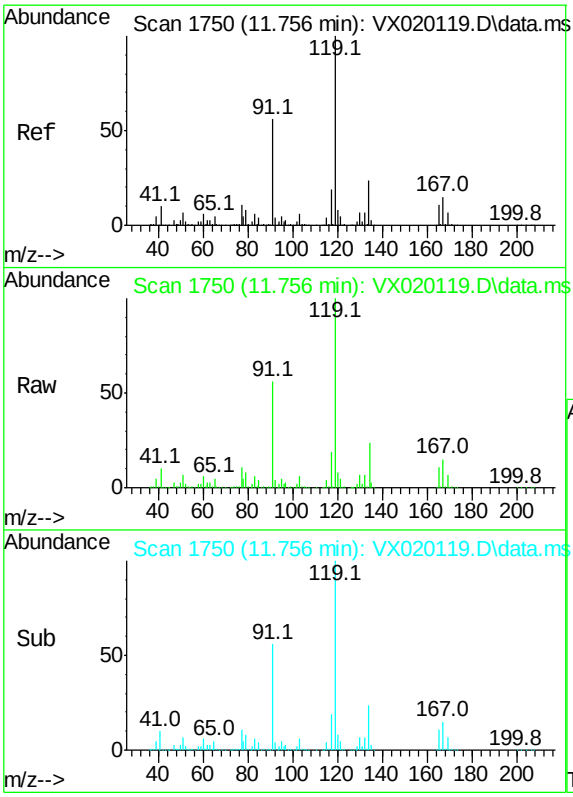
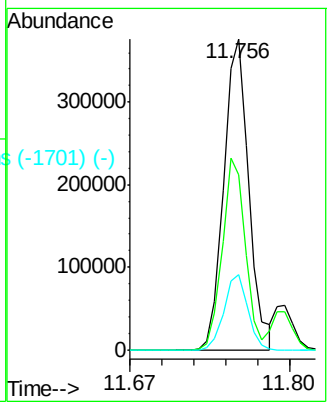
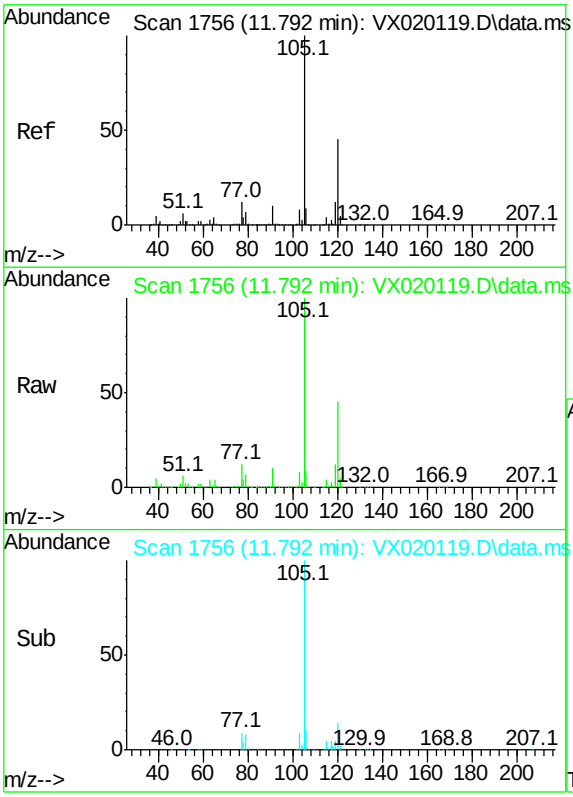


#83
tert-Butylbenzene
Concen: 49.97 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:119 Resp: 509665

Ion	Ratio	Lower	Upper
119	100		
91	56.8	27.9	83.7
134	22.8	11.3	33.9

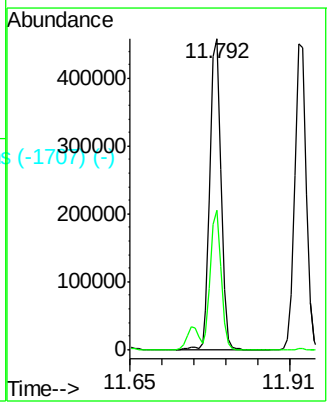




#84
1,2,4-Trimethylbenzene
Concen: 53.78 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:105 Resp: 570388

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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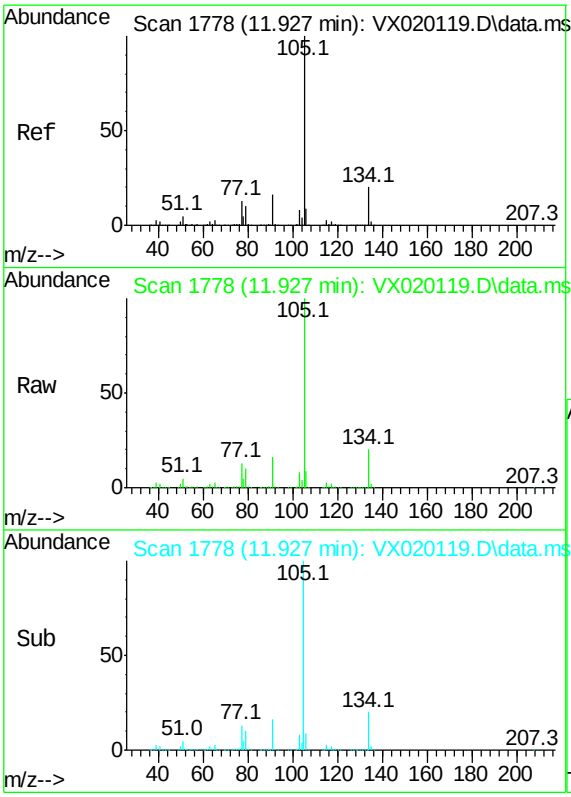
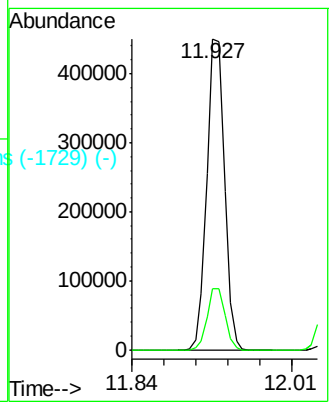
12/21/2020 3:57:56 PM

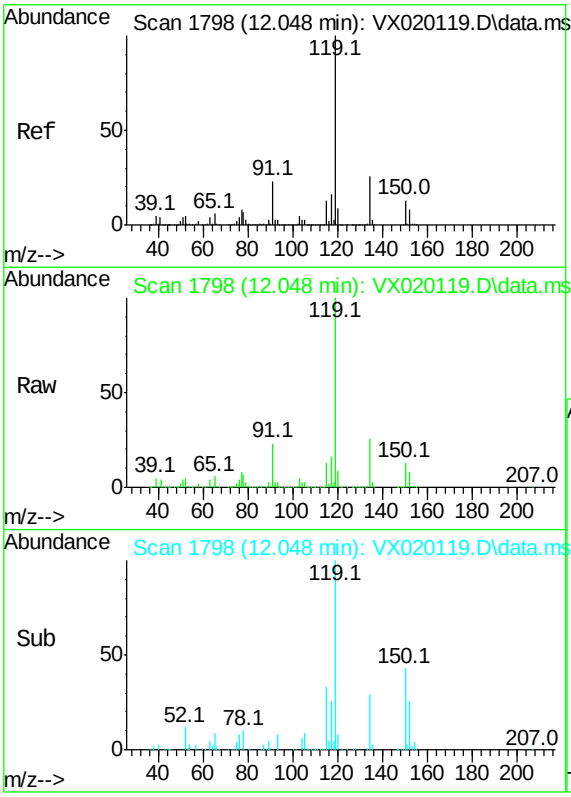


#85
sec-Butylbenzene
Concen: 49.29 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:105 Resp: 571246

Ion	Ratio	Lower	Upper
105	100		
134	19.8	10.0	29.8

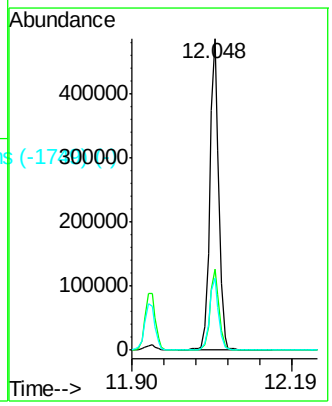




#86
p-Isopropyltoluene
Concen: 51.16 ug/l
RT: 12.048 min Scan# 1798
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:119 Resp: 546193

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	23.2	11.7	35.0



Instrument :
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ClientSampleId :
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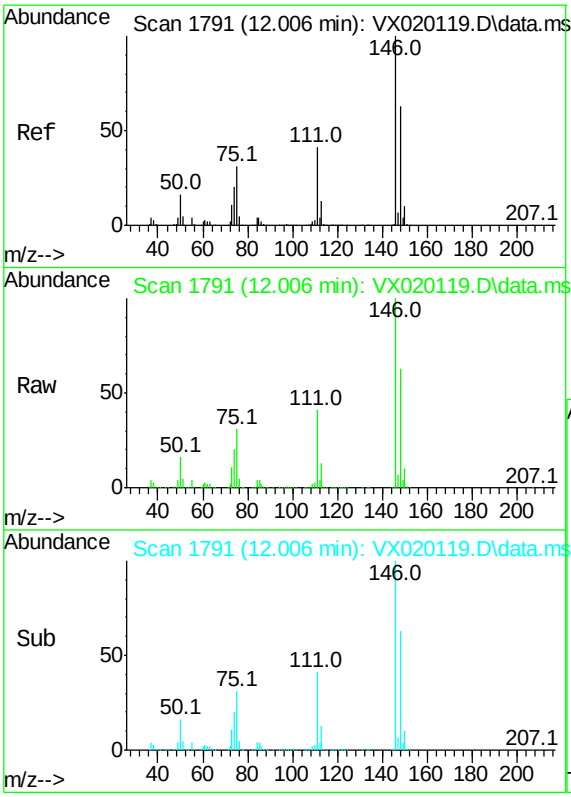
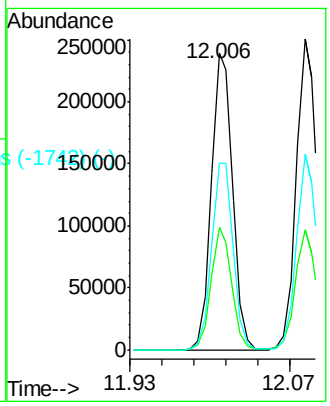
12/21/2020 3:57:56 PM

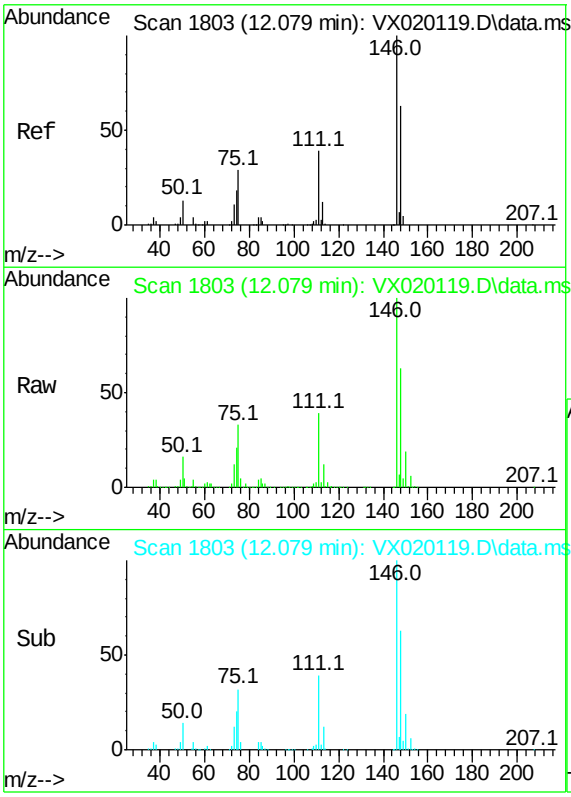


#87
1,3-Dichlorobenzene
Concen: 51.72 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:146 Resp: 302546

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.2	60.5
148	63.9	31.9	95.7

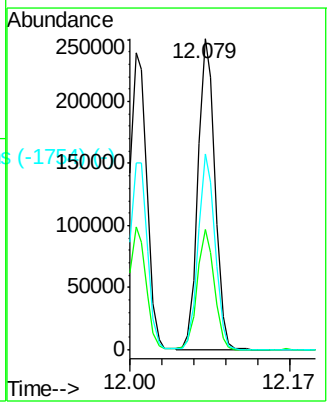




#88
1,4-Dichlorobenzene
Concen: 51.37 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:146 Resp: 306512

Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.6	58.8
148	62.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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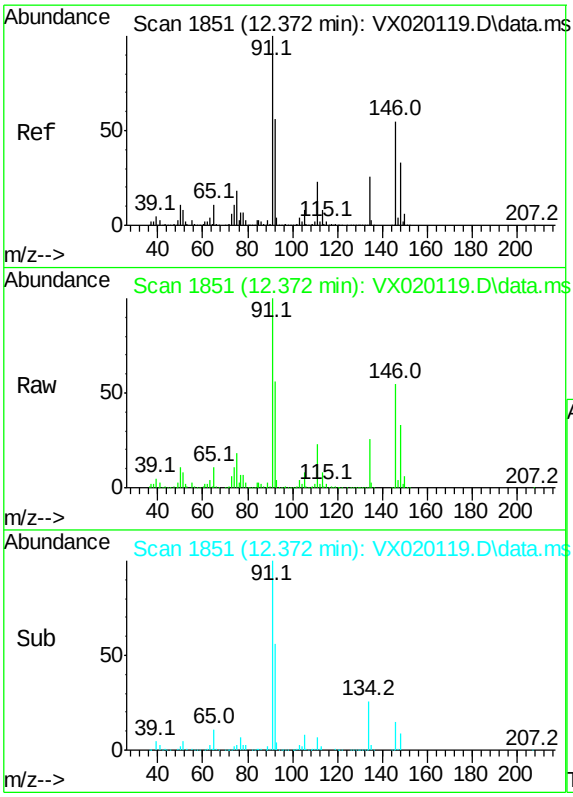
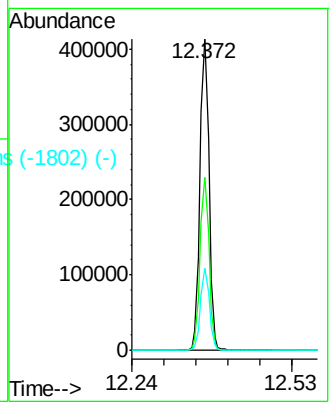
12/21/2020 3:57:56 PM

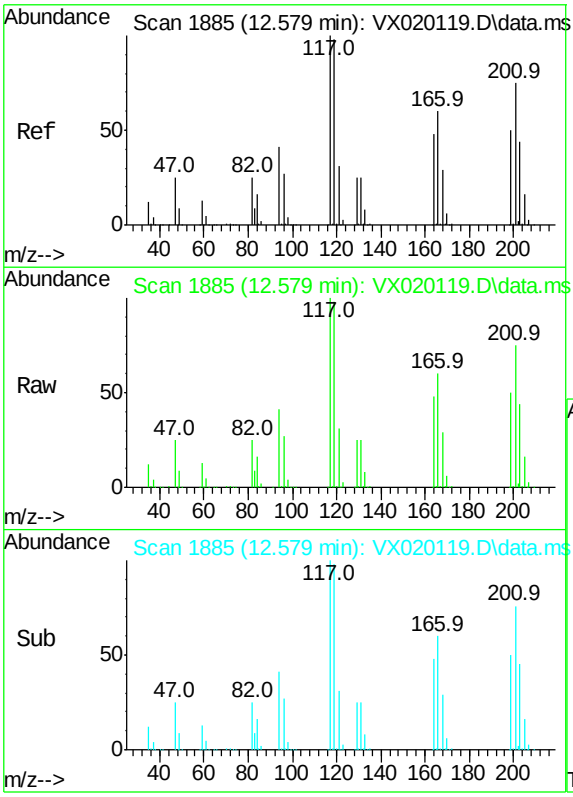


#89
n-Butylbenzene
Concen: 49.67 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 91 Resp: 467291

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.4	82.0
134	25.5	13.2	39.5

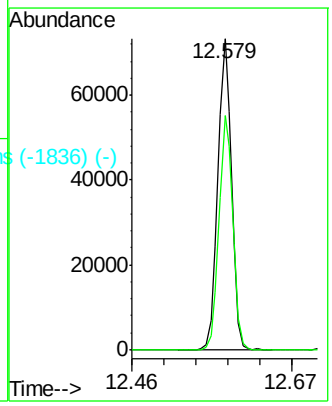




#90
Hexachloroethane
Concen: 49.53 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:117 Resp: 91208

Ion	Ratio	Lower	Upper
117	100		
201	76.5	40.4	121.2



Instrument :
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ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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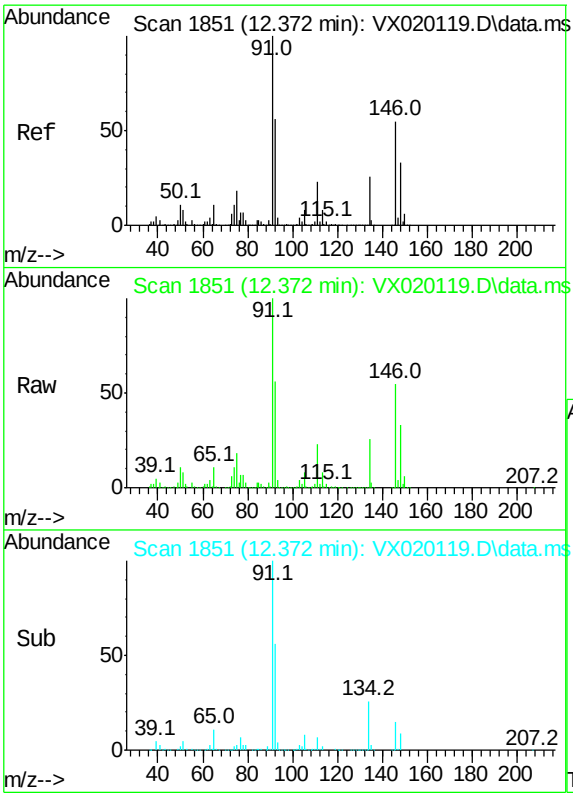
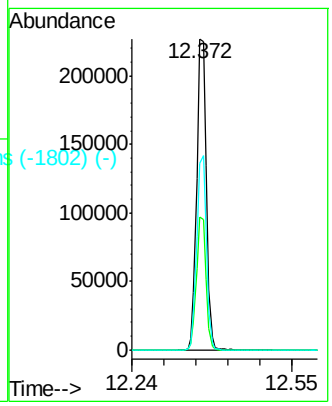
12/21/2020 3:57:56 PM

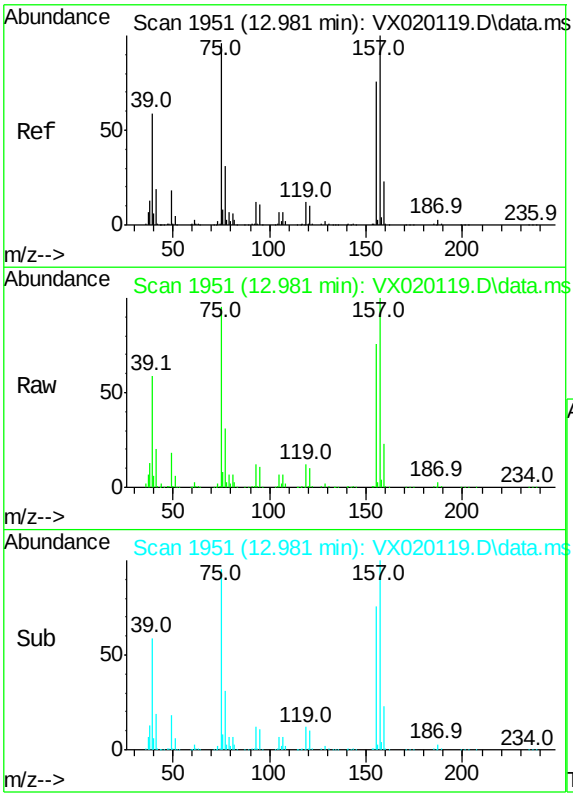


#91
1,2-Dichlorobenzene
Concen: 52.37 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:146 Resp: 299063

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.8	62.2
148	63.2	31.9	95.5

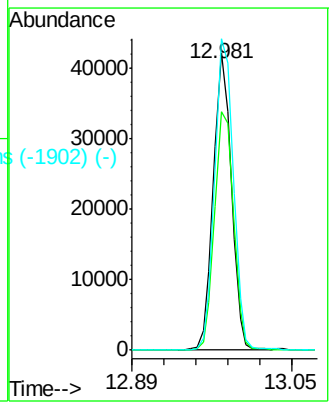




#92
1,2-Dibromo-3-Chloropropane
Concen: 53.74 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion: 75 Resp: 51311

Ion	Ratio	Lower	Upper
75	100		
155	84.6	45.3	135.9
157	108.4	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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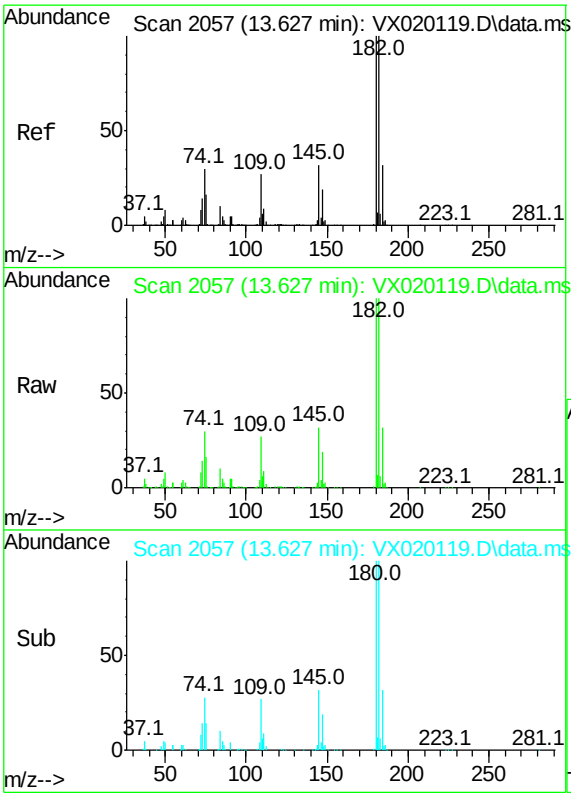
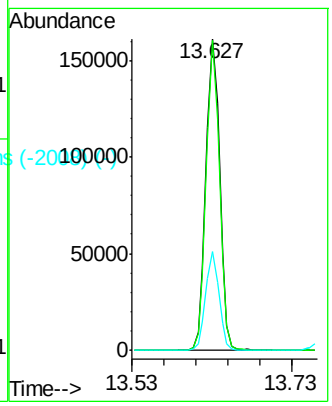
12/21/2020 3:57:56 PM

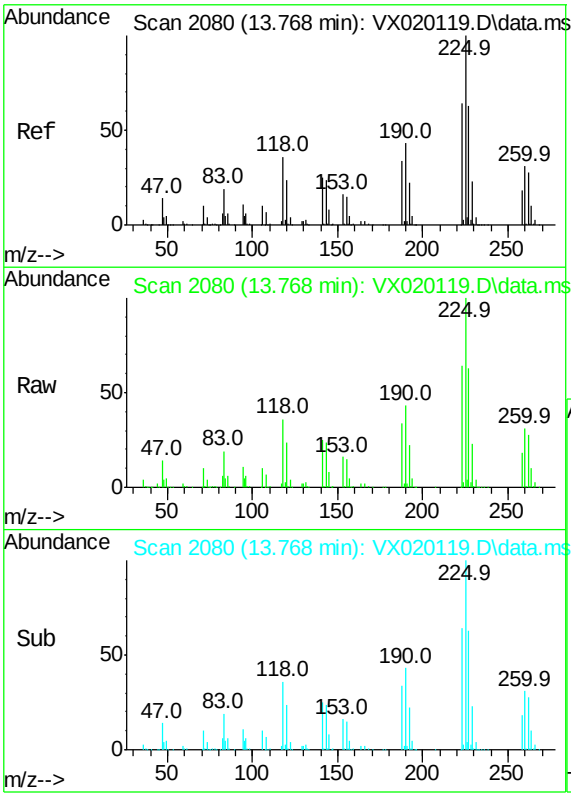


#93
1,2,4-Trichlorobenzene
Concen: 51.76 ug/l
RT: 13.627 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:180 Resp: 191165

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.7	143.1
145	30.6	15.0	45.0

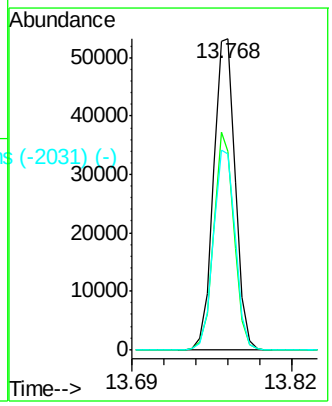




#94
Hexachlorobutadiene
Concen: 42.71 ug/l
RT: 13.768 min Scan# 2080
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

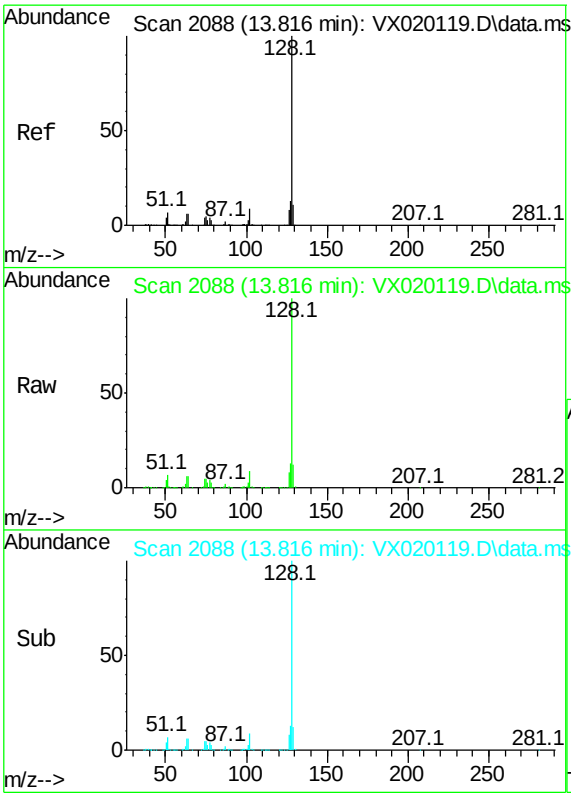
Tgt Ion:225 Resp: 68784

Ion	Ratio	Lower	Upper
225	100		
223	65.1	31.1	93.2
227	64.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

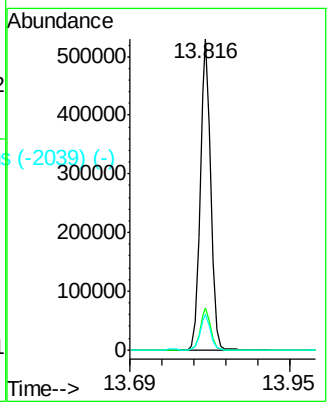
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:56 PM

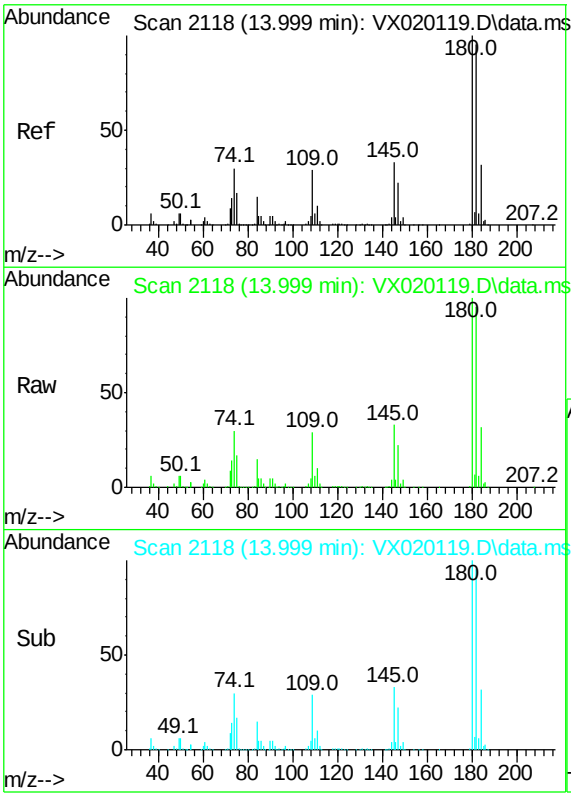


#95
Naphthalene
Concen: 54.31 ug/l
RT: 13.816 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:128 Resp: 655954

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.1	8.8	13.2

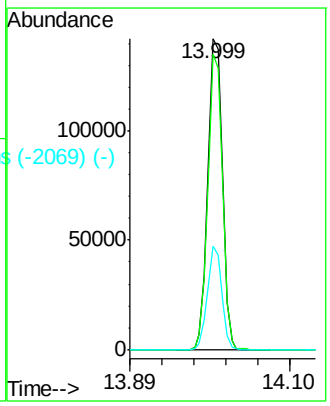




#96
1,2,3-Trichlorobenzene
Concen: 52.19 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020119.D
Acq: 18 Dec 2020 11:57

Tgt Ion:180 Resp: 188738

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.9
145	32.4	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020120.D
Acq On : 18 Dec 2020 12:20
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 18 12:41:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	264916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.830	114	436558	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	418294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	214396	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	351222	98.96	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 197.92%#			
35) Dibromofluoromethane	5.464	113	285418	100.76	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 201.52%#			
50) Toluene-d8	8.695	98	1115995	103.65	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 207.30%#			
62) 4-Bromofluorobenzene	11.122	95	436028	106.30	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 212.60%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	307489	125.81	ug/l	100
3) Chloromethane	1.313	50	319300	108.66	ug/l	99
4) Vinyl Chloride	1.392	62	368709	120.61	ug/l	100
5) Bromomethane	1.617	94	103963	102.37	ug/l	100
6) Chloroethane	1.697	64	227144	121.50	ug/l	99
7) Trichlorofluoromethane	1.910	101	477412	113.87	ug/l	99
8) Diethyl Ether	2.166	74	199006	107.88	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.361	101	267977	111.90	ug/l	99
10) Methyl Iodide	2.489	142	382042	108.62	ug/l	100
11) Tert butyl alcohol	3.026	59	370017	472.92	ug/l	99
12) 1,1-Dichloroethene	2.349	96	273643	112.36	ug/l	92
13) Acrolein	2.270	56	248493	604.02	ug/l	99
14) Allyl chloride	2.703	41	484385	114.59	ug/l	97
15) Acrylonitrile	3.111	53	901092	550.07	ug/l	99
16) Acetone	2.416	43	726388	534.15	ug/l	100
17) Carbon Disulfide	2.544	76	818813	116.18	ug/l	100
18) Methyl Acetate	2.745	43	350127	106.29	ug/l	99
19) Methyl tert-butyl Ether	3.166	73	1012184	110.28	ug/l	99
20) Methylene Chloride	2.831	84	339344	97.35	ug/l	99
21) trans-1,2-Dichloroethene	3.135	96	322821	111.72	ug/l	98
22) Diisopropyl ether	3.824	45	983838	113.83	ug/l	93
23) Vinyl Acetate	3.782	43	4298026	580.68	ug/l	100
24) 1,1-Dichloroethane	3.666	63	571721	111.13	ug/l	100
25) 2-Butanone	4.629	43	1161894	555.37	ug/l	99
26) 2,2-Dichloropropane	4.544	77	486873	111.76	ug/l	99
27) cis-1,2-Dichloroethene	4.562	96	369481	108.54	ug/l	100
28) Bromochloromethane	4.977	49	252920	104.27	ug/l	97
29) Tetrahydrofuran	5.086	42	748433	555.75	ug/l	98
30) Chloroform	5.172	83	582924	110.04	ug/l	100
31) Cyclohexane	5.544	56	518830	119.54	ug/l	100
32) 1,1,1-Trichloroethane	5.458	97	506733	113.41	ug/l	100
36) 1,1-Dichloropropene	5.763	75	445443	113.02	ug/l	99
37) Ethyl Acetate	4.794	43	454697	110.78	ug/l	99
38) Carbon Tetrachloride	5.751	117	435827	113.63	ug/l	99
39) Methylcyclohexane	7.434	83	545238	119.39	ug/l	97
40) Benzene	6.111	78	1342838	109.54	ug/l	99
41) Methacrylonitrile	5.001	41	244523	108.65	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020120.D
Acq On : 18 Dec 2020 12:20
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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12/21/2020 3:57:58 PM

Quant Time: Dec 18 12:41:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820w.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	6.159	62	455514	108.06	ug/l		100
43) Isopropyl Acetate	6.409	43	737235	111.05	ug/l		99
44) Trichloroethene	7.184	130	347849	109.43	ug/l		97
45) 1,2-Dichloropropane	7.488	63	341420	110.66	ug/l		100
46) Dibromomethane	7.635	93	228557	109.54	ug/l		98
47) Bromodichloromethane	7.872	83	464172	112.74	ug/l		98
48) Methyl methacrylate	7.744	41	370006	113.23	ug/l		98
49) 1,4-Dioxane	7.714	88	169136	2157.87	ug/l		99
51) 4-Methyl-2-Pentanone	8.622	43	2292832	564.05	ug/l		100
52) Toluene	8.763	92	843688	110.50	ug/l		100
53) t-1,3-Dichloropropene	9.019	75	536022	117.53	ug/l		99
54) cis-1,3-Dichloropropene	8.415	75	571828	115.08	ug/l		98
55) 1,1,2-Trichloroethane	9.195	97	342851	110.24	ug/l		99
56) Ethyl methacrylate	9.159	69	550792	117.26	ug/l		99
57) 1,3-Dichloropropane	9.354	76	584398	109.78	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.287	63	1343036	540.45	ug/l		99
59) 2-Hexanone	9.470	43	1775938	566.38	ug/l		100
60) Dibromochloromethane	9.561	129	364492	115.92	ug/l		100
61) 1,2-Dibromoethane	9.653	107	362366	109.72	ug/l		99
64) Tetrachloroethene	9.317	164	298888	106.70	ug/l		97
65) Chlorobenzene	10.122	112	886168	105.66	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.201	131	334908	110.91	ug/l		99
67) Ethyl Benzene	10.232	91	1633994	110.44	ug/l		99
68) m/p-Xylenes	10.342	106	1237985	221.87	ug/l		99
69) o-Xylene	10.683	106	587896	109.19	ug/l		98
70) Styrene	10.695	104	1030466	113.26	ug/l		100
71) Bromoform	10.841	173	279209	118.53	ug/l	#	100
73) Isopropylbenzene	11.000	105	1564158	106.63	ug/l		99
74) N-amyl acetate	10.878	43	671095	112.45	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.250	83	545750	104.20	ug/l		99
76) 1,2,3-Trichloropropane	11.280	75	512266m	105.06	ug/l		
77) Bromobenzene	11.238	156	404856	106.91	ug/l		98
78) n-propylbenzene	11.341	91	1851096	110.59	ug/l		100
79) 2-Chlorotoluene	11.402	91	1106407	106.36	ug/l		100
80) 1,3,5-Trimethylbenzene	11.488	105	1372334	110.78	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.055	75	195236	115.98	ug/l		96
82) 4-Chlorotoluene	11.494	91	1304690	106.98	ug/l		98
83) tert-Butylbenzene	11.756	119	1321593	109.52	ug/l		98
84) 1,2,4-Trimethylbenzene	11.792	105	1385933	110.45	ug/l		100
85) sec-Butylbenzene	11.927	105	1551454	113.15	ug/l		100
86) p-Isopropyltoluene	12.049	119	1430859	113.28	ug/l		99
87) 1,3-Dichlorobenzene	12.006	146	722163	104.36	ug/l		99
88) 1,4-Dichlorobenzene	12.079	146	735579	104.21	ug/l		99
89) n-Butylbenzene	12.372	91	1305739	117.31	ug/l		99
90) Hexachloroethane	12.579	117	253658	116.42	ug/l		98
91) 1,2-Dichlorobenzene	12.378	146	707147	104.68	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	123871	109.66	ug/l		97
93) 1,2,4-Trichlorobenzene	13.628	180	476693	109.10	ug/l		98
94) Hexachlorobutadiene	13.762	225	210021	110.22	ug/l		98
95) Naphthalene	13.817	128	1629714	114.05	ug/l		100
96) 1,2,3-Trichlorobenzene	13.999	180	466578	109.05	ug/l		99

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

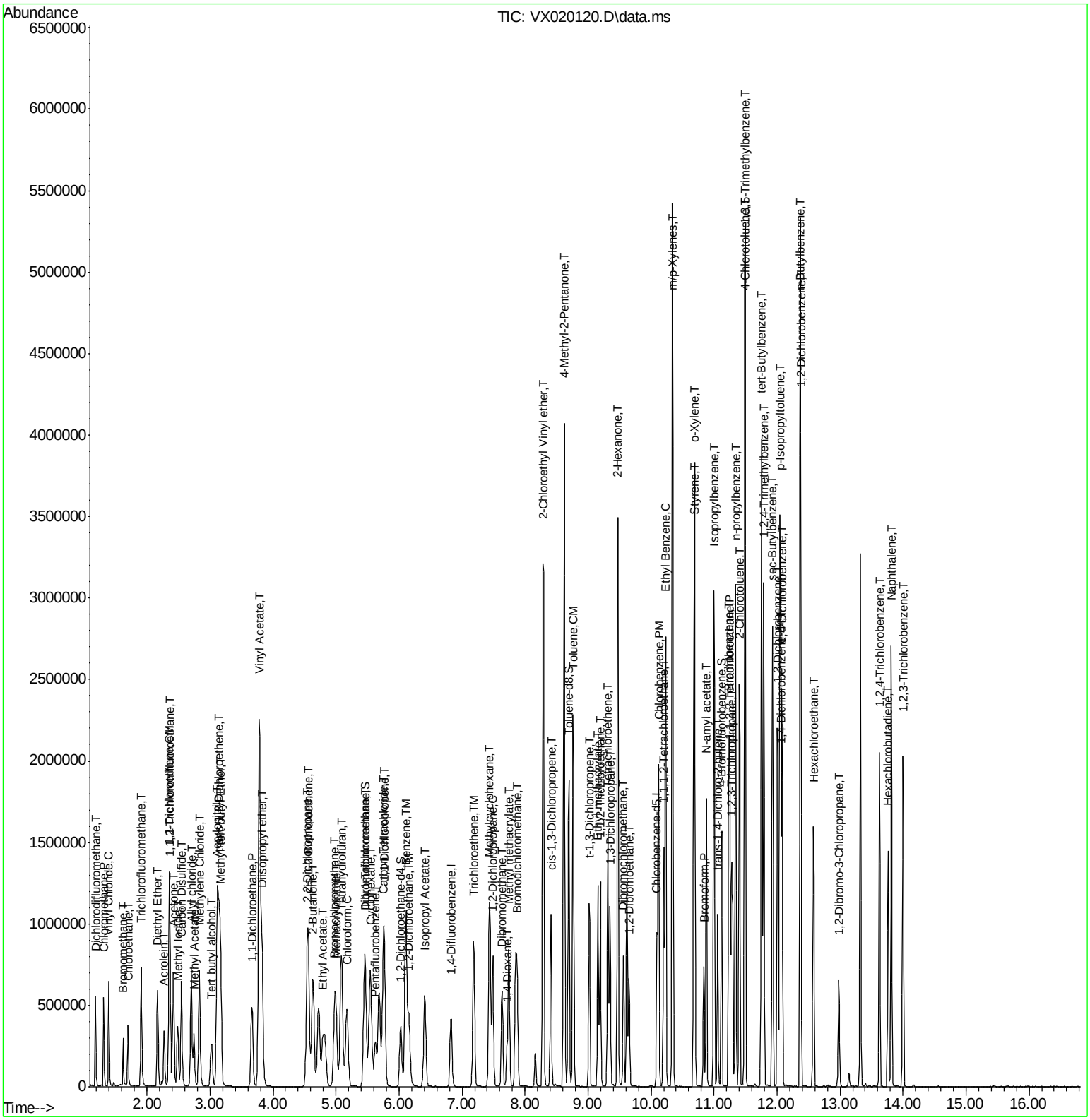
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:58 PM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020120.D
Acq On : 18 Dec 2020 12:20
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 18 12:41:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:58 PM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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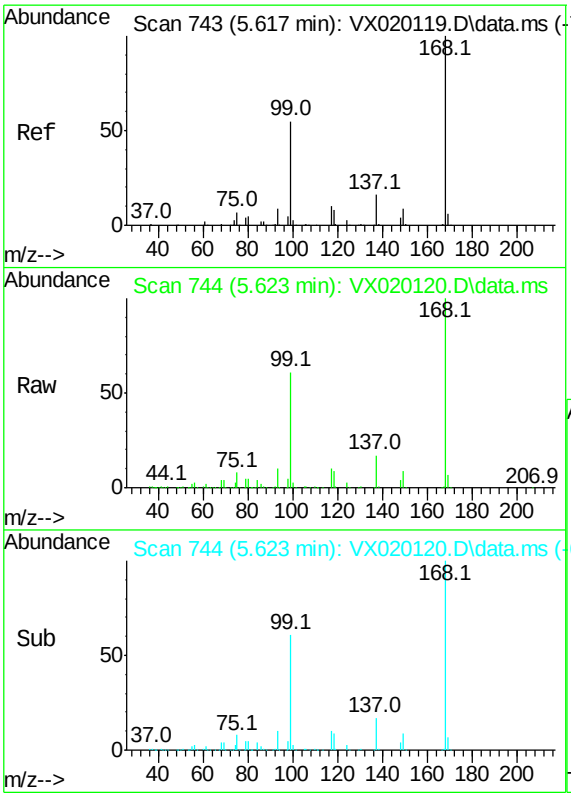
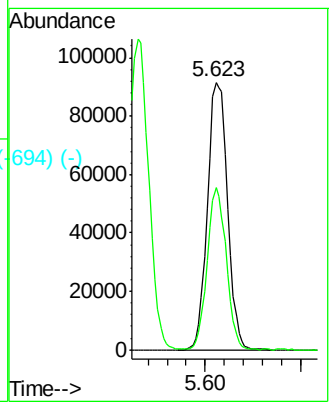
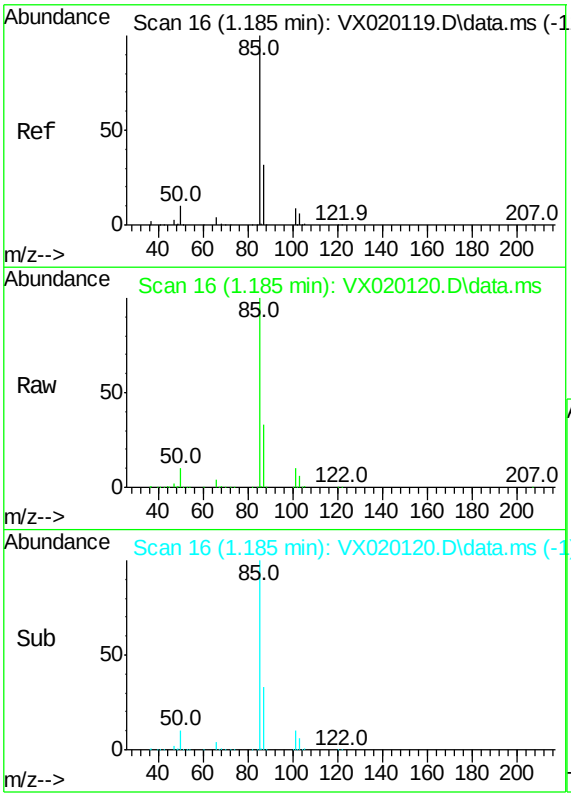


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 744
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:168 Resp: 264916

Ion	Ratio	Lower	Upper
168	100		
99	60.5	45.8	68.6

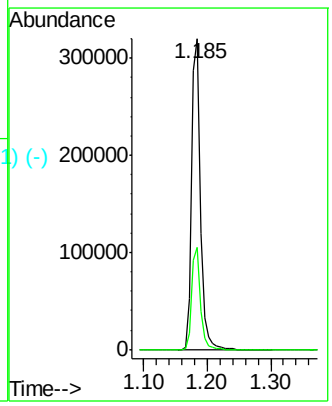




#2
Dichlorodifluoromethane
Concen: 125.81 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

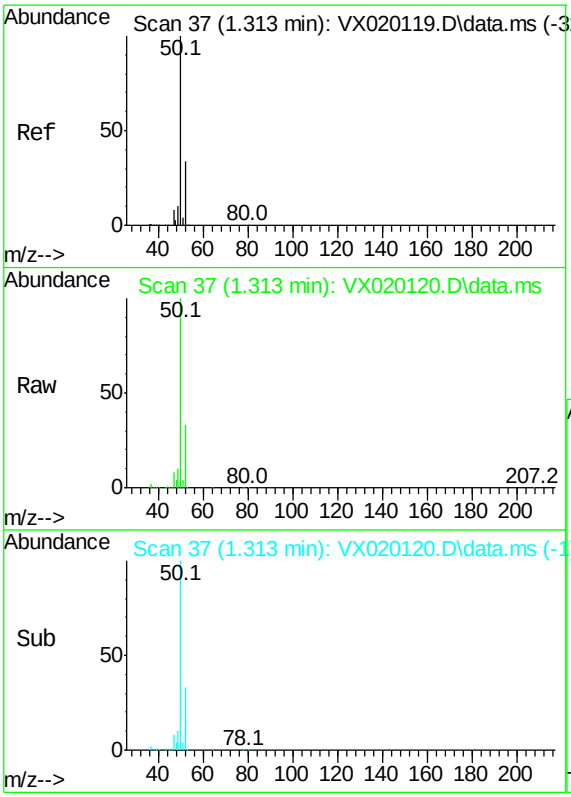
Tgt Ion: 85 Resp: 307489

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

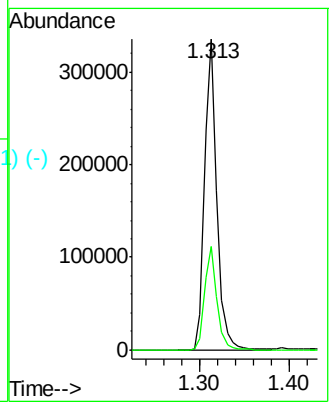
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:58 PM

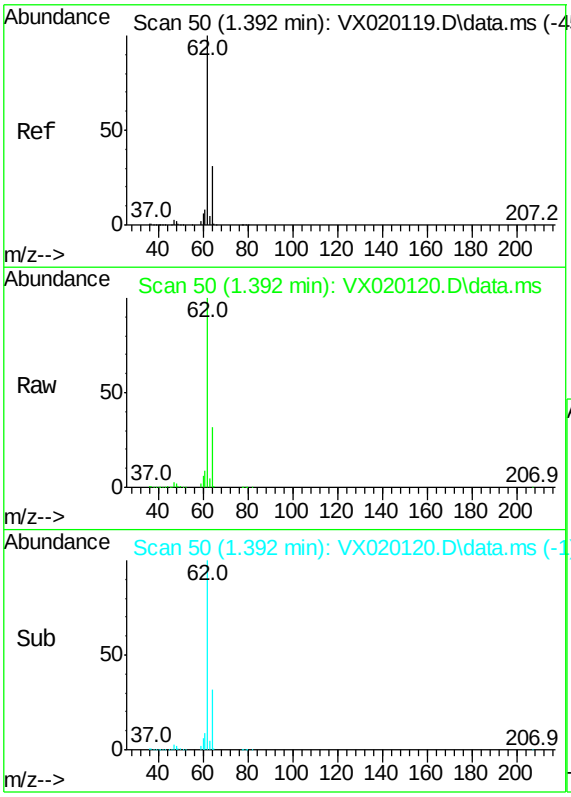


#3
Chloromethane
Concen: 108.66 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 50 Resp: 319300

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.4	39.6

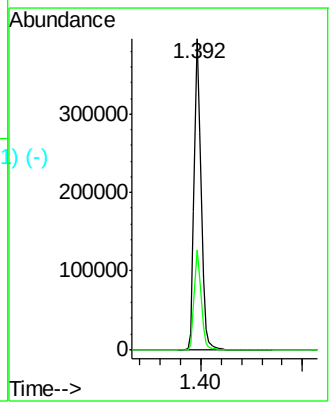




#4
Vinyl Chloride
Concen: 120.61 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

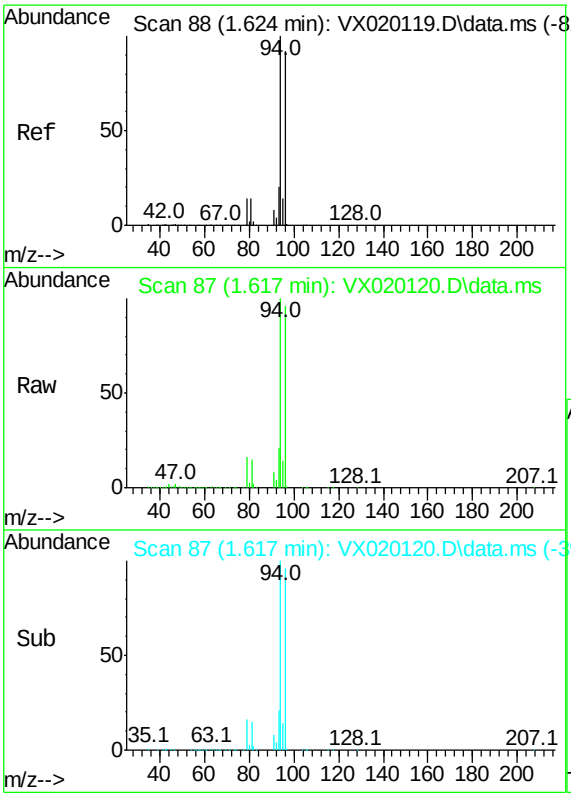
Tgt Ion: 62 Resp: 368709

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

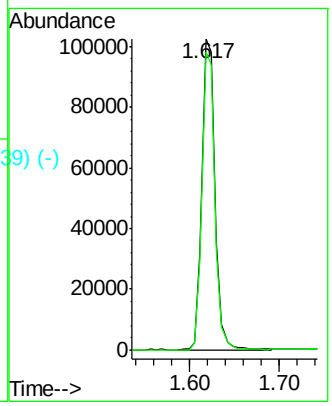
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:58 PM

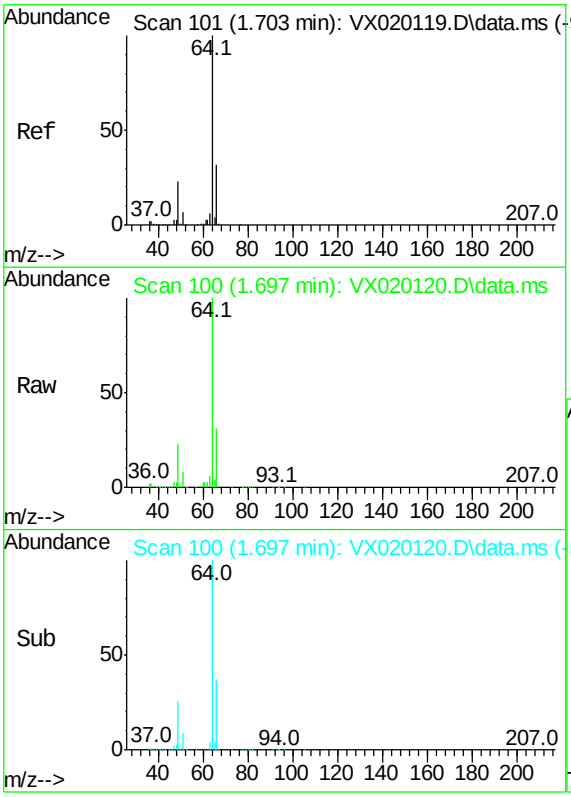


#5
Bromomethane
Concen: 102.37 ug/l
RT: 1.617 min Scan# 87
Delta R.T. -0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 94 Resp: 103963

Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.4	114.6

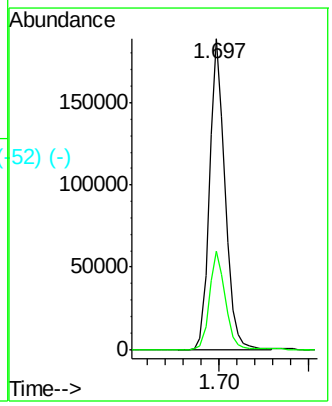




#6
Chloroethane
Concen: 121.50 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 64 Resp: 227144

Ion	Ratio	Lower	Upper
64	100		
66	31.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
MMDadoda
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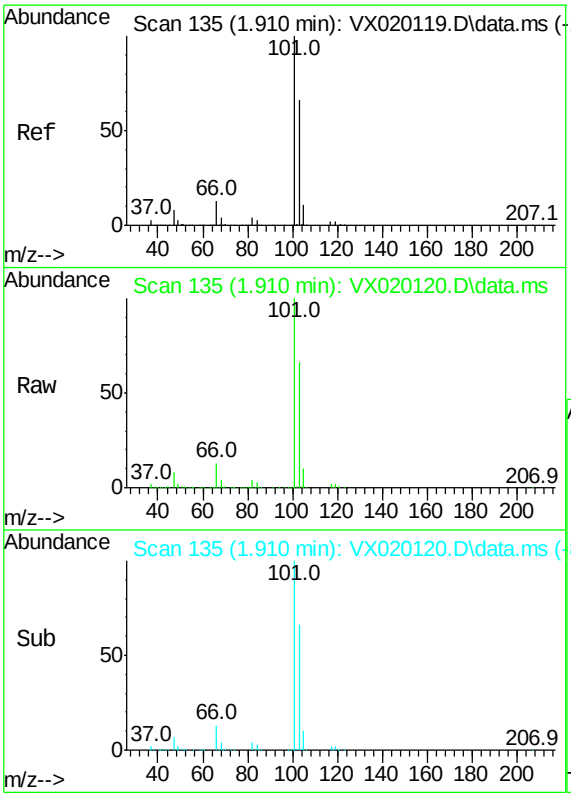
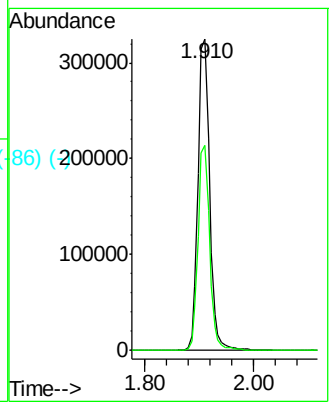
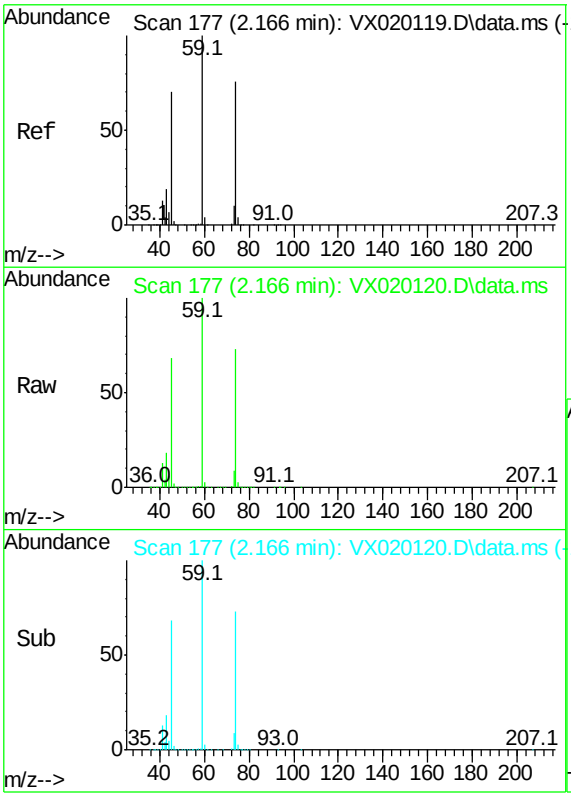


#7
Trichlorofluoromethane
Concen: 113.87 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:101 Resp: 477412

Ion	Ratio	Lower	Upper
101	100		
103	65.7	53.2	79.8

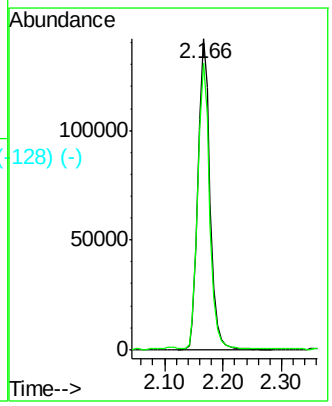




#8
Diethyl Ether
Concen: 107.88 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 74 Resp: 199006

Ion	Ratio	Lower	Upper
74	100		
45	91.7	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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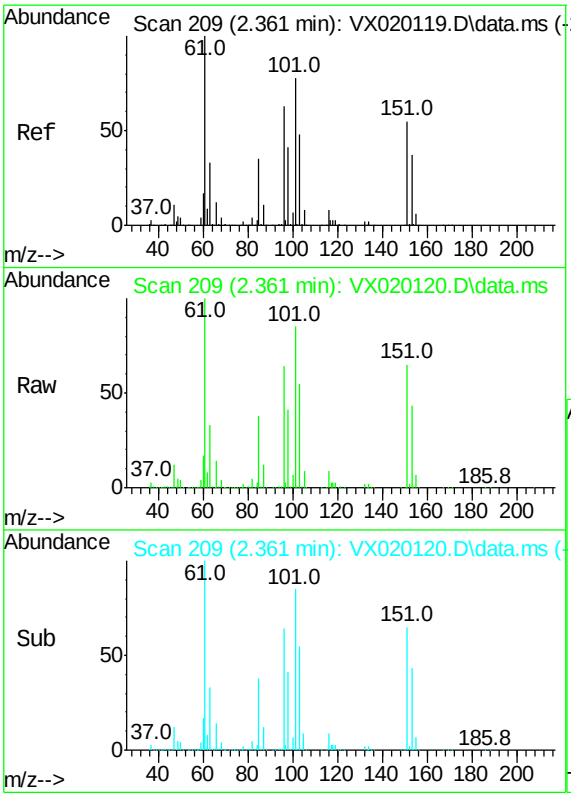
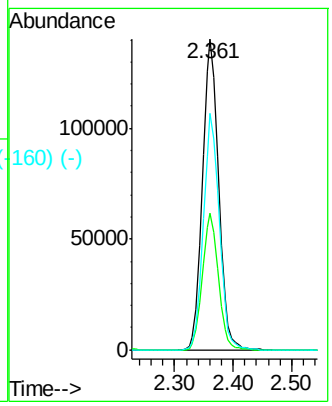
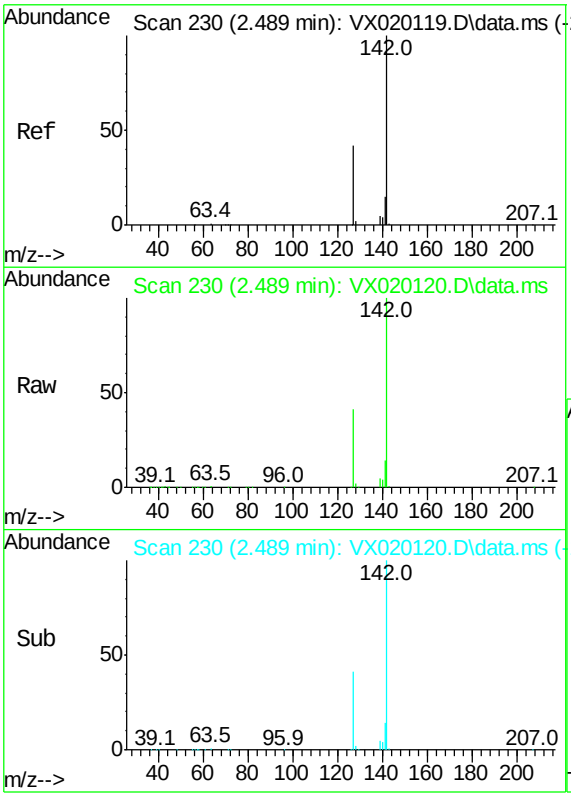


#9
1,1,2-Trichlorotrifluoroethane
Concen: 111.90 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:101 Resp: 267977

Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.9	52.3
151	74.9	61.4	92.2

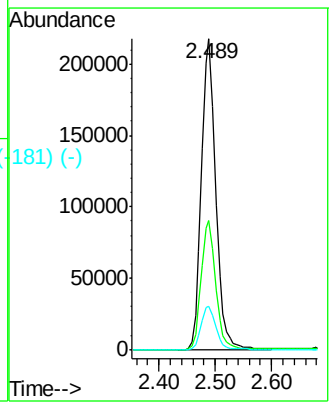




#10
Methyl Iodide
Concen: 108.62 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:142 Resp: 382042

Ion	Ratio	Lower	Upper
142	100		
127	41.9	33.3	49.9
141	14.2	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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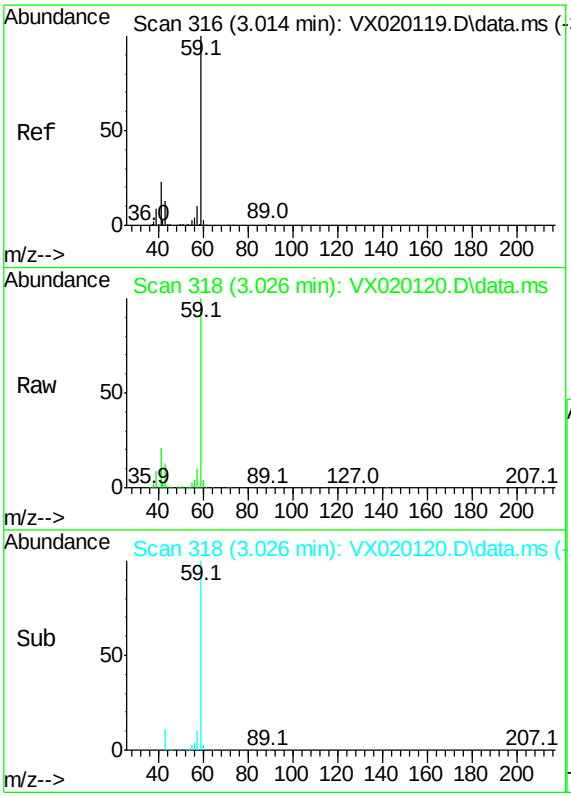
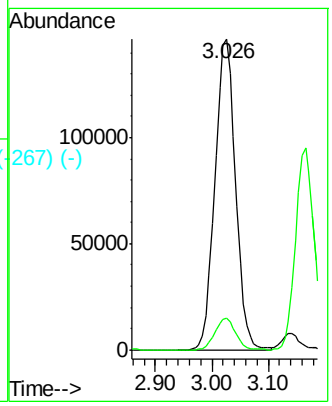
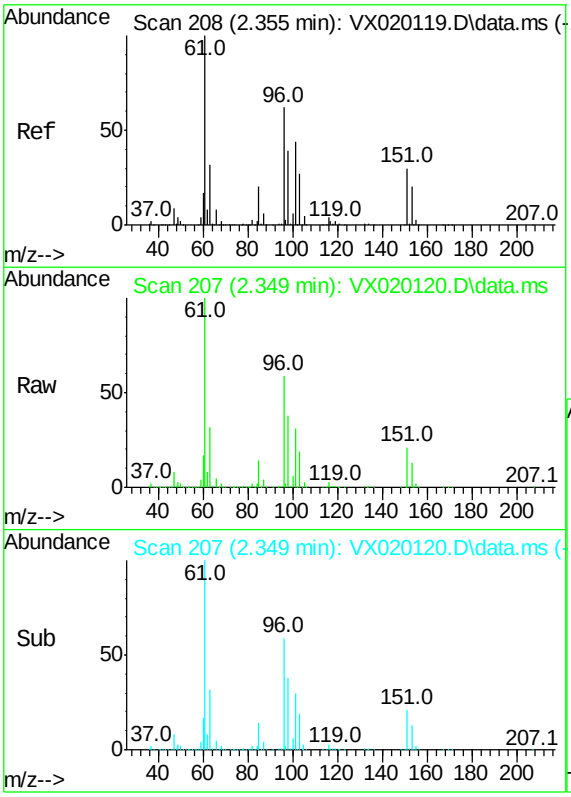


#11
Tert butyl alcohol
Concen: 472.92 ug/l
RT: 3.026 min Scan# 318
Delta R.T. 0.012 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 59 Resp: 370017

Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.8	11.8

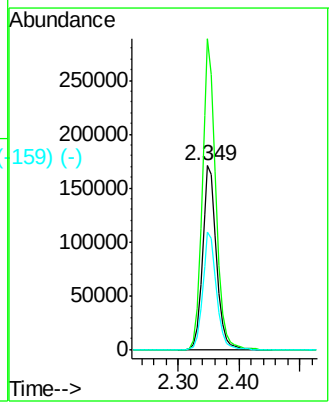




#12
1,1-Dichloroethene
Concen: 112.36 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 96 Resp: 273643

Ion	Ratio	Lower	Upper
96	100		
61	169.1	124.6	187.0
98	64.0	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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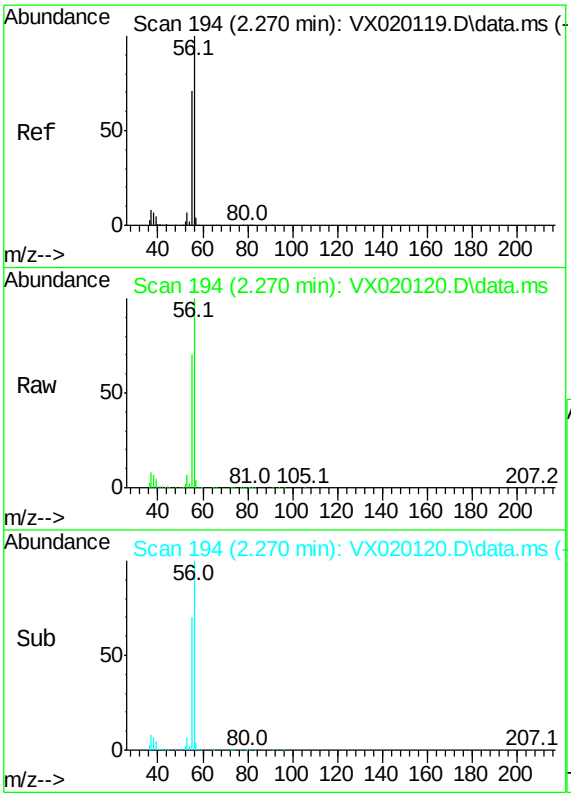
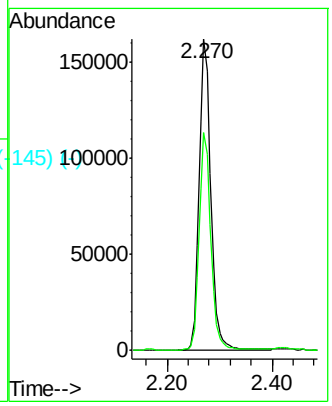
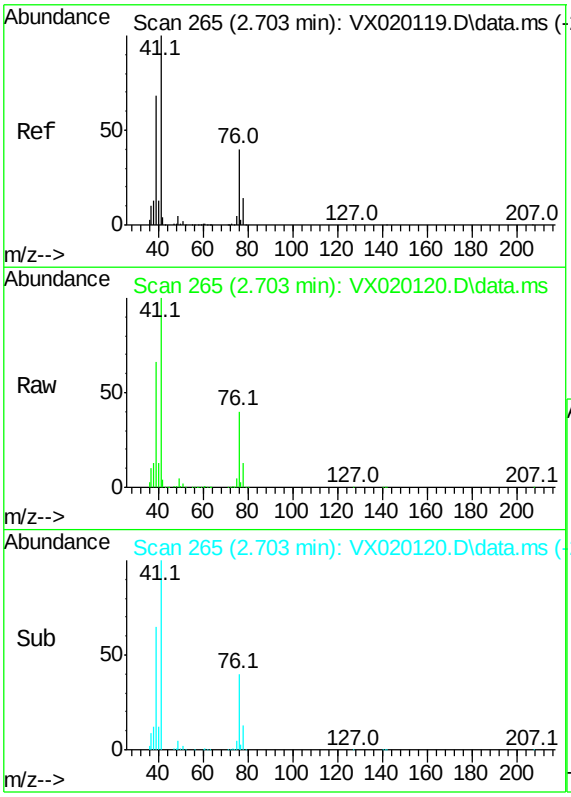


#13
Acrolein
Concen: 604.02 ug/l
RT: 2.270 min Scan# 194
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 56 Resp: 248493

Ion	Ratio	Lower	Upper
56	100		
55	69.9	56.4	84.6

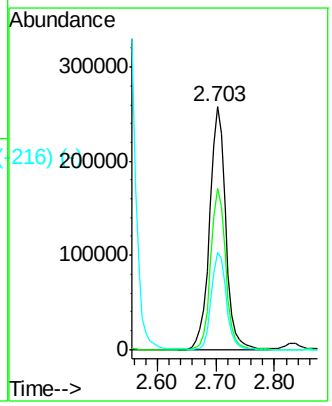




#14
Allyl chloride
Concen: 114.59 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 41 Resp: 484385

Ion	Ratio	Lower	Upper
41	100		
39	61.8	51.6	77.4
76	37.1	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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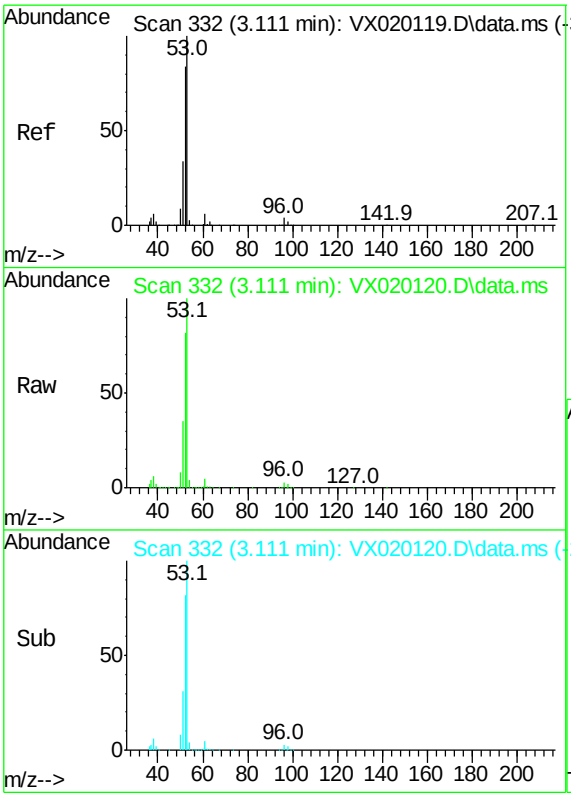
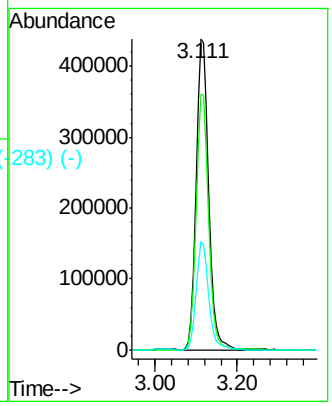
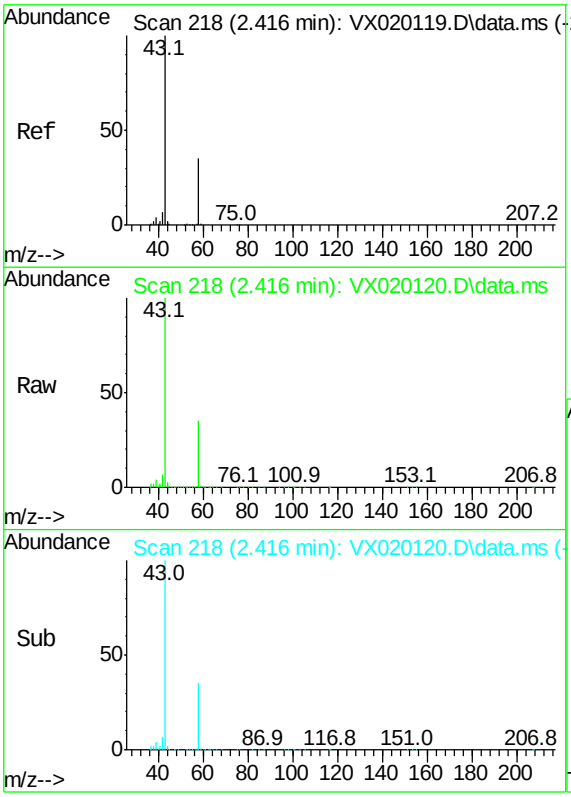


#15
Acrylonitrile
Concen: 550.07 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 53 Resp: 901092

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.3	97.9
51	34.9	28.2	42.2

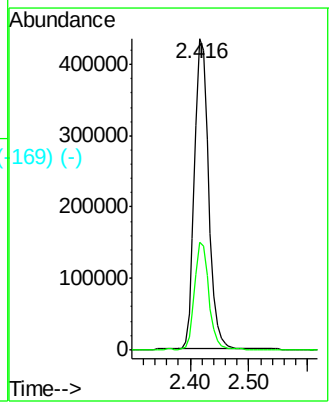




#16
Acetone
Concen: 534.15 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 726388

Ion	Ratio	Lower	Upper
43	100		
58	34.6	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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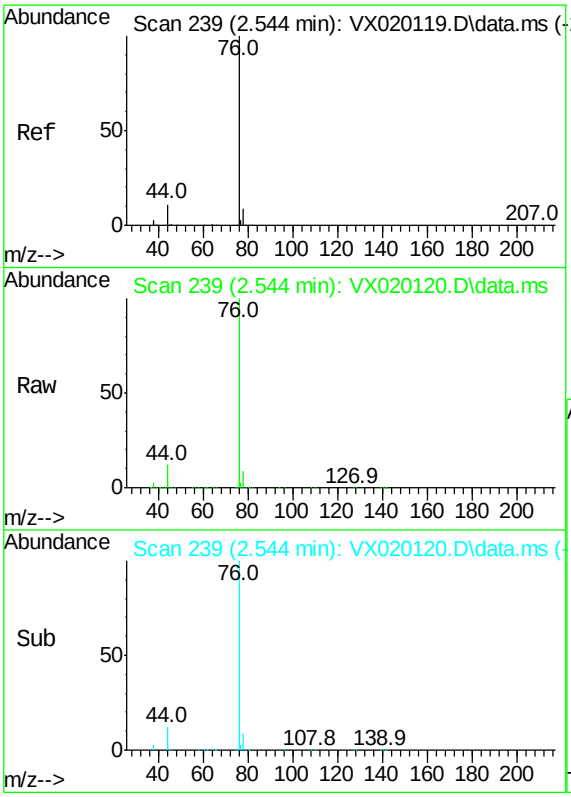
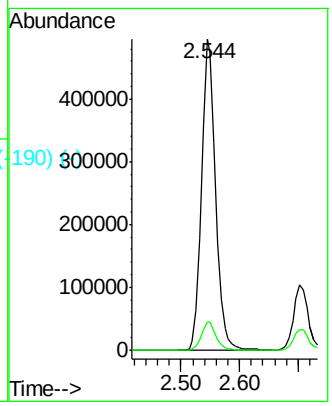
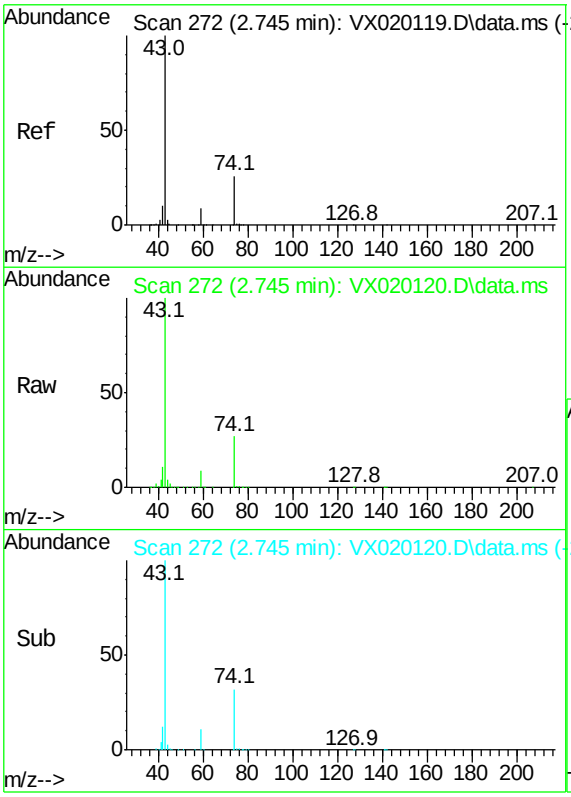


#17
Carbon Disulfide
Concen: 116.18 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 76 Resp: 818813

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

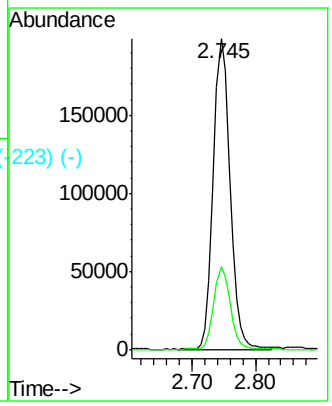




#18
Methyl Acetate
Concen: 106.29 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 350127

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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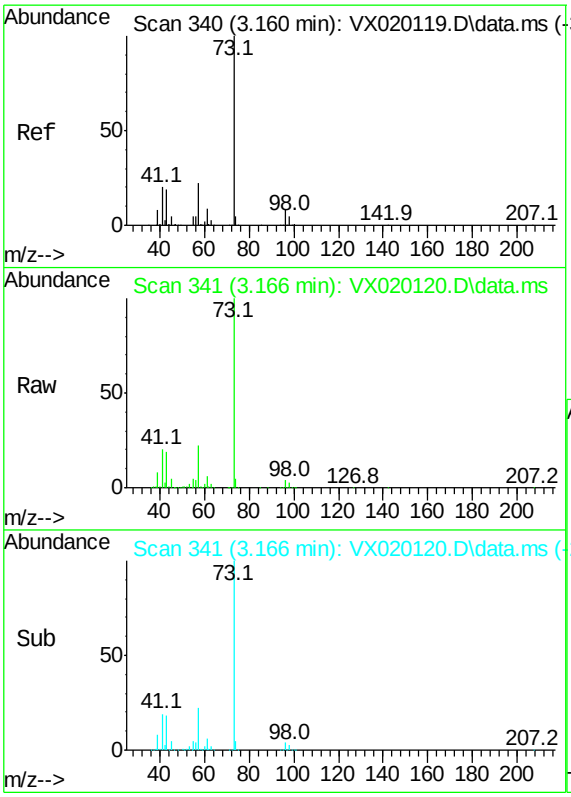
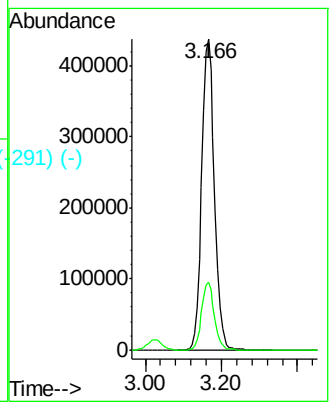
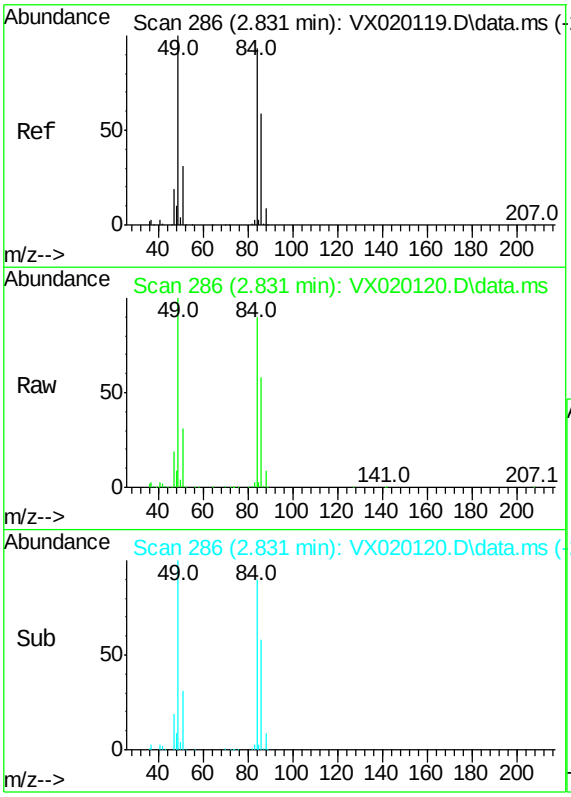


#19
Methyl tert-butyl Ether
Concen: 110.28 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 73 Resp: 1012184

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.1	25.7

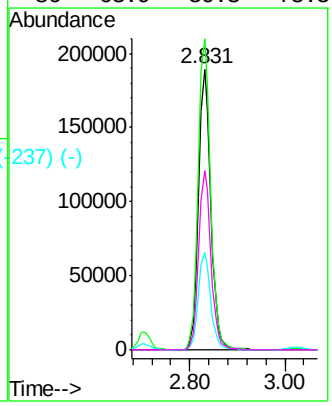




#20
Methylene Chloride
Concen: 97.35 ug/l
RT: 2.831 min Scan# 286
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 84 Resp: 339344

Ion	Ratio	Lower	Upper
84	100		
49	110.7	88.6	132.8
51	34.6	27.0	40.6
86	63.9	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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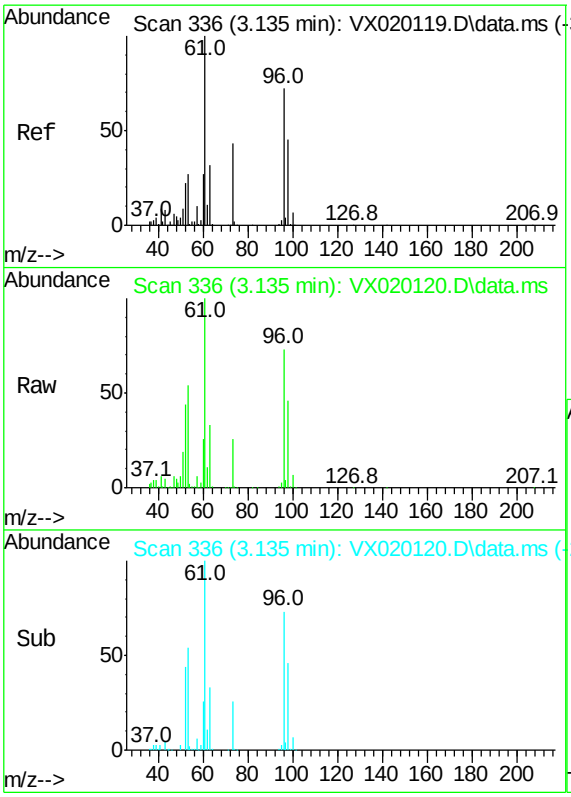
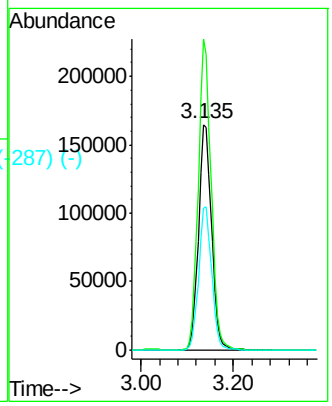
12/21/2020 3:57:58 PM

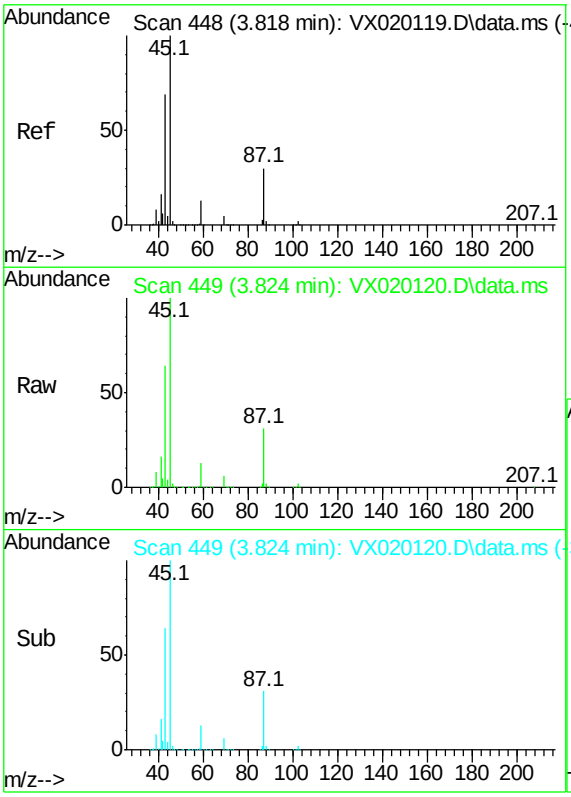


#21
trans-1,2-Dichloroethene
Concen: 111.72 ug/l
RT: 3.135 min Scan# 336
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 96 Resp: 322821

Ion	Ratio	Lower	Upper
96	100		
61	137.8	107.7	161.5
98	62.8	50.4	75.6

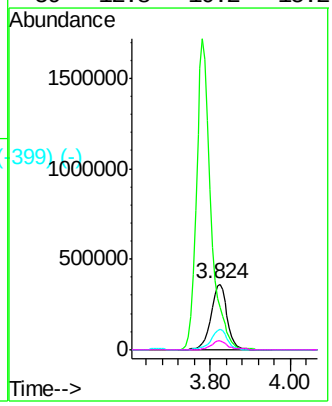




#22
Diisopropyl ether
Concen: 113.83 ug/l
RT: 3.824 min Scan# 449
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 45 Resp: 983838

Ion	Ratio	Lower	Upper
45	100		
43	63.7	58.0	87.0
87	30.5	25.4	38.0
59	12.8	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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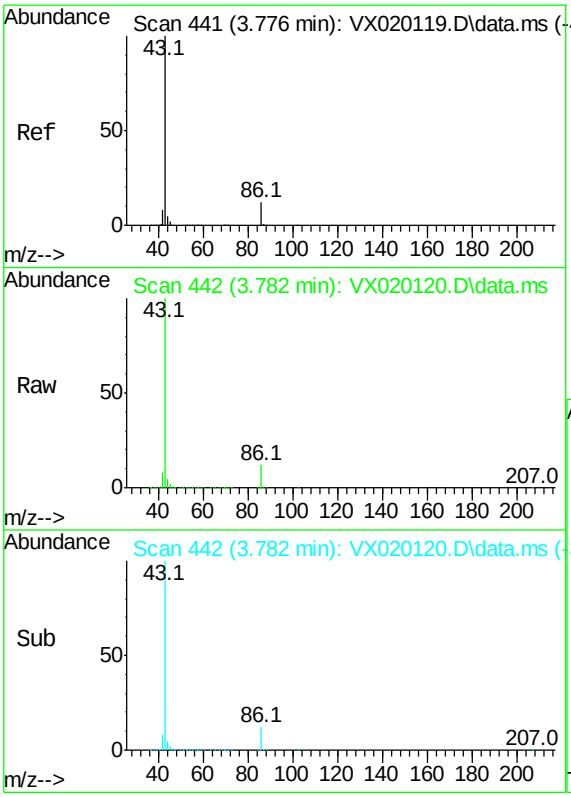
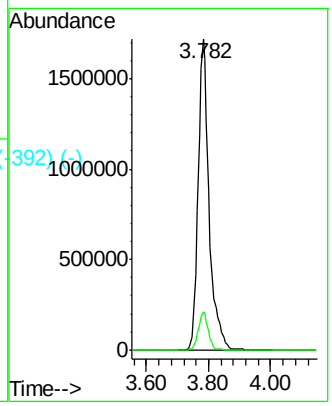
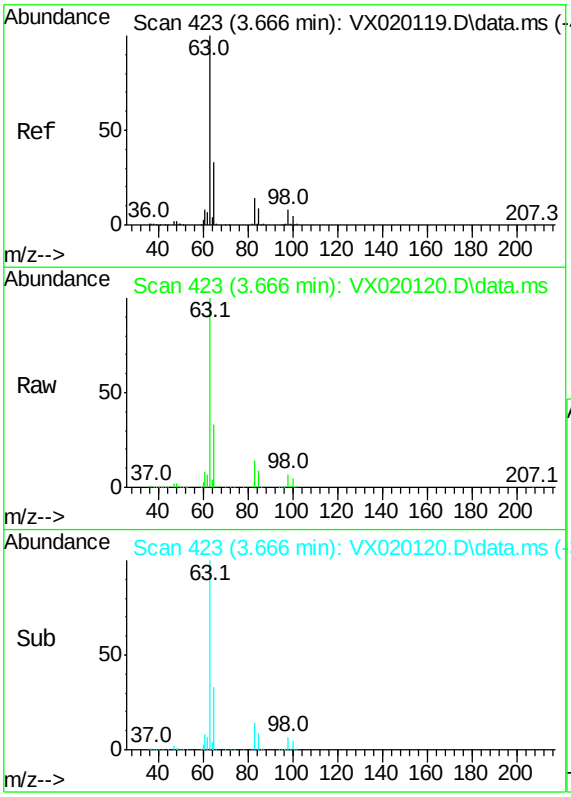


#23
Vinyl Acetate
Concen: 580.68 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 4298026

Ion	Ratio	Lower	Upper
43	100		
86	12.3	9.9	14.9

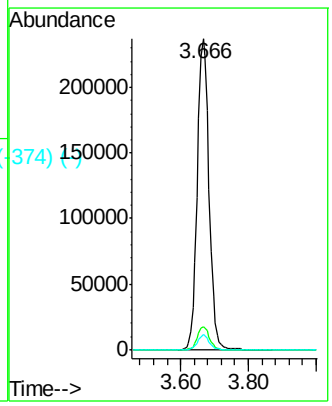




#24
1,1-Dichloroethane
Concen: 111.13 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 63 Resp: 571721

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.9	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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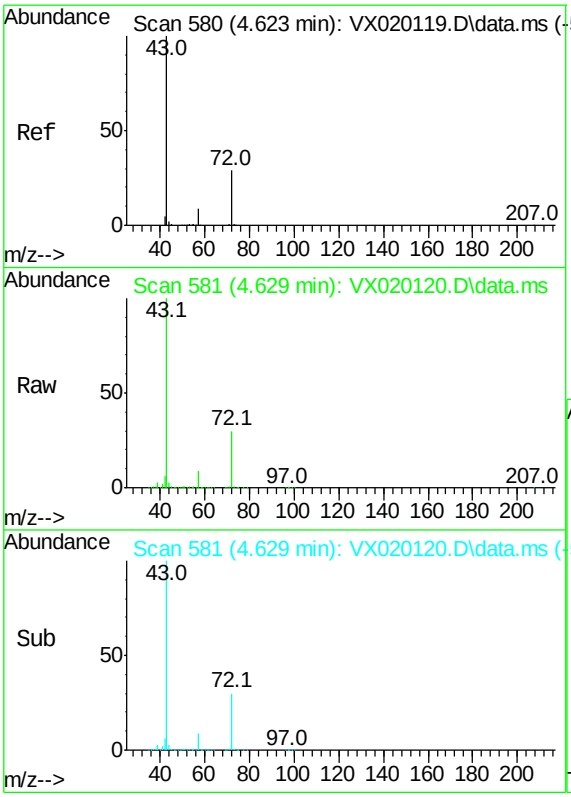
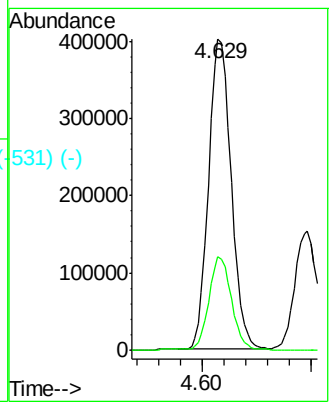
12/21/2020 3:57:58 PM

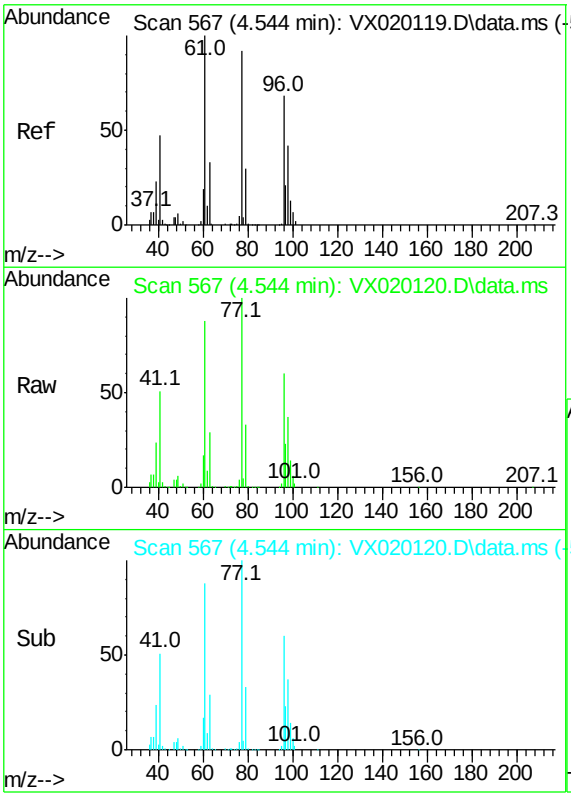


#25 (-)
2-Butanone
Concen: 555.37 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 1161894

Ion	Ratio	Lower	Upper
43	100		
72	29.9	23.7	35.5

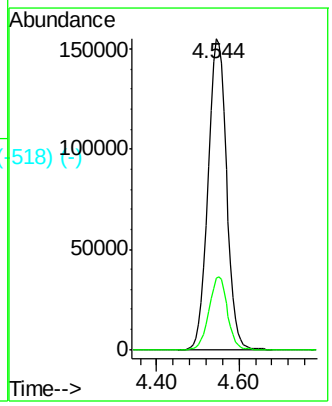




#26 (-)
2,2-Dichloropropane
Concen: 111.76 ug/l
RT: 4.544 min Scan# 567
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 77 Resp: 486873

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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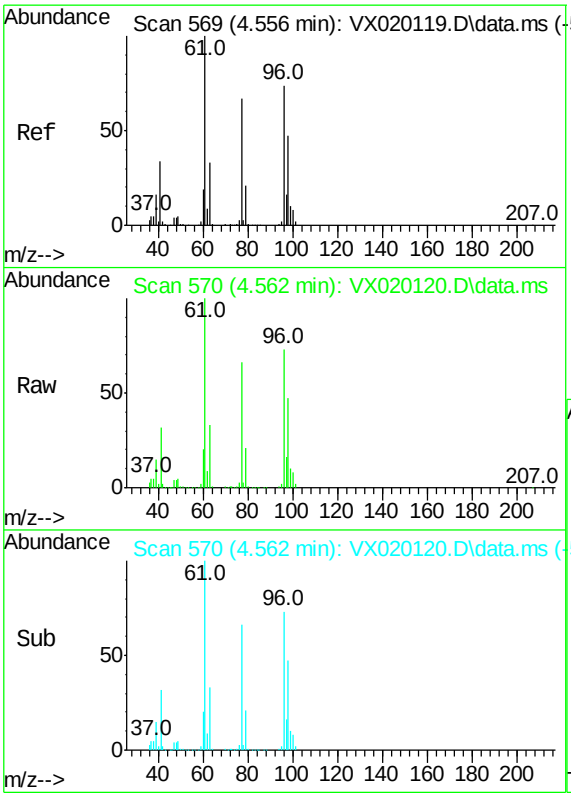
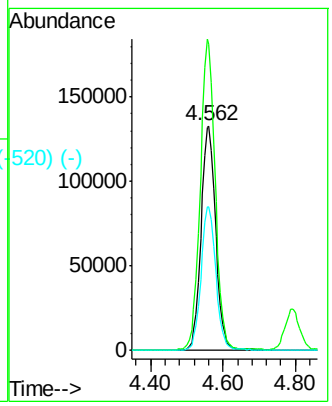
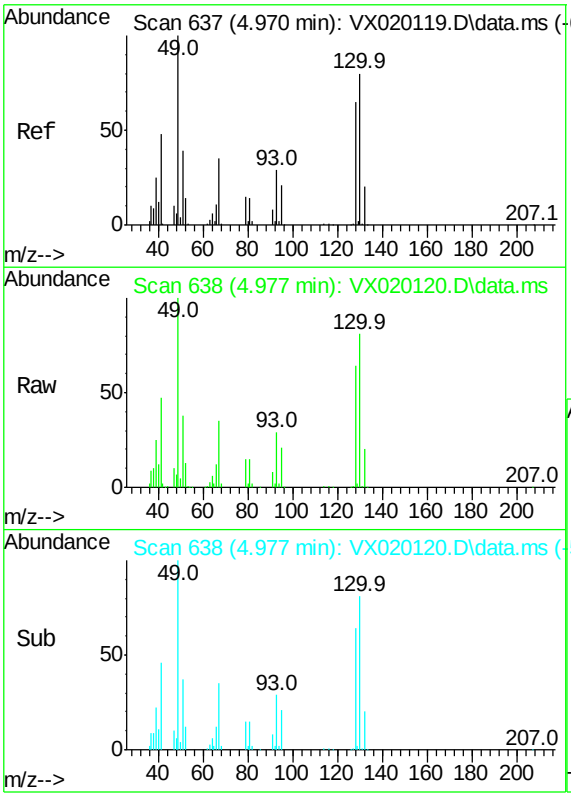


#27 (-)
cis-1,2-Dichloroethene
Concen: 108.54 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 96 Resp: 369481

Ion	Ratio	Lower	Upper
96	100		
61	142.4	0.0	285.6
98	64.7	0.0	129.6

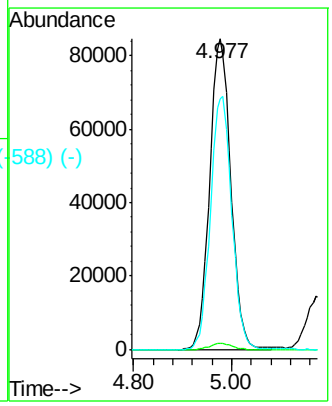




#28 (-)
Bromochloromethane
Concen: 104.27 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 49 Resp: 252920

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	82.3	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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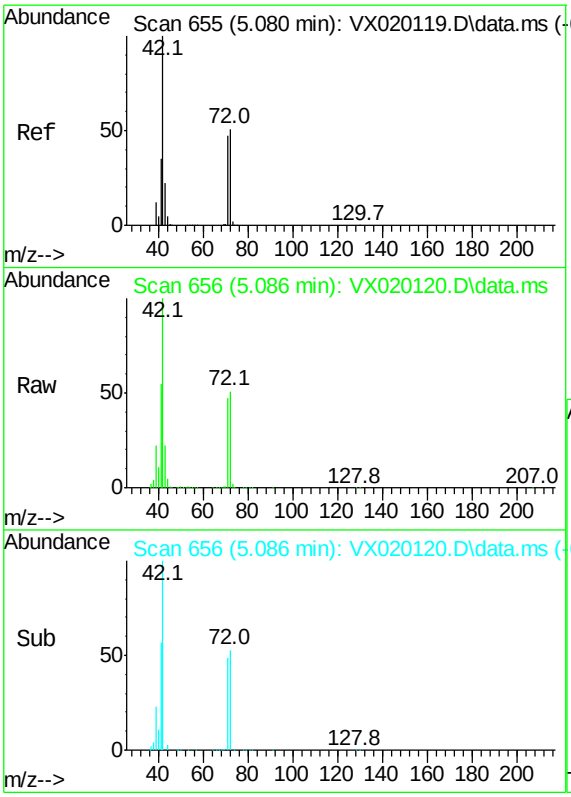
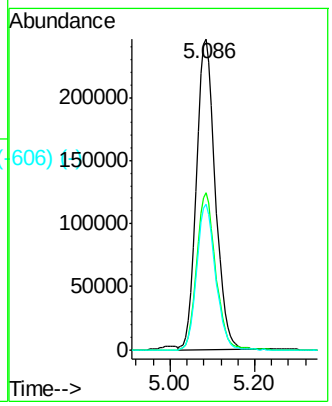
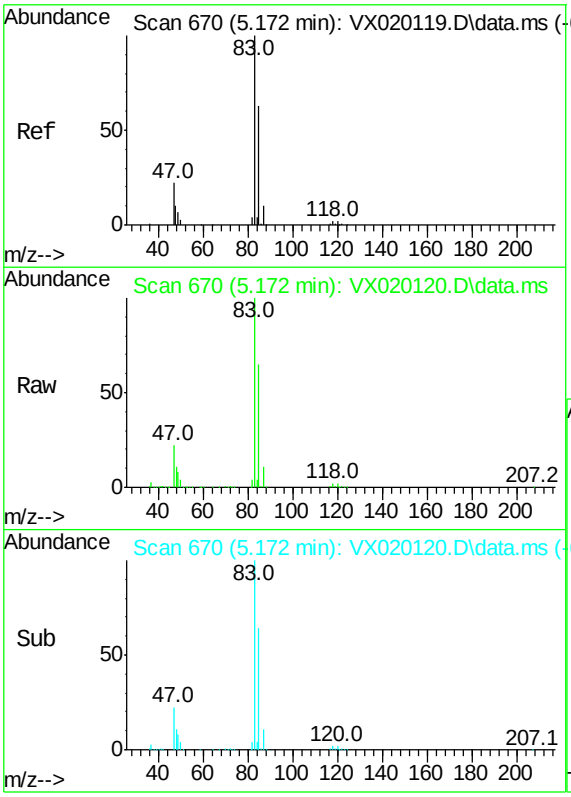


#29
Tetrahydrofuran
Concen: 555.75 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 42 Resp: 748433

Ion	Ratio	Lower	Upper
42	100		
72	50.8	41.7	62.5
71	46.8	38.4	57.6

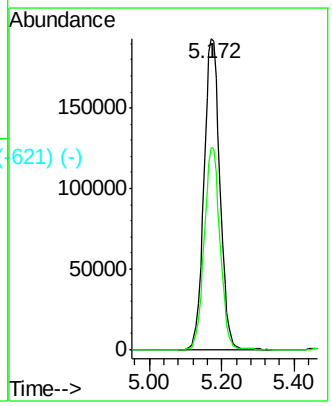




#30
Chloroform
Concen: 110.04 ug/l
RT: 5.172 min Scan# 670
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 83 Resp: 582924

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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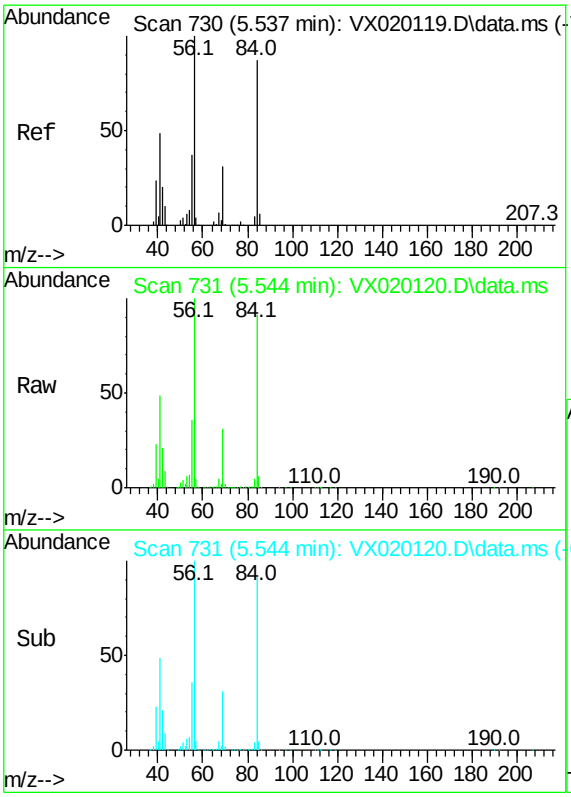
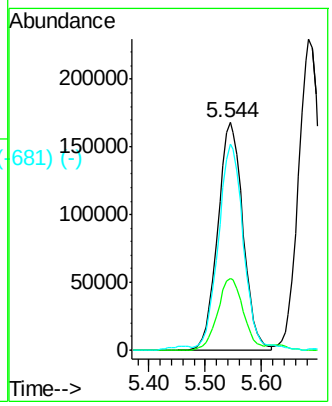
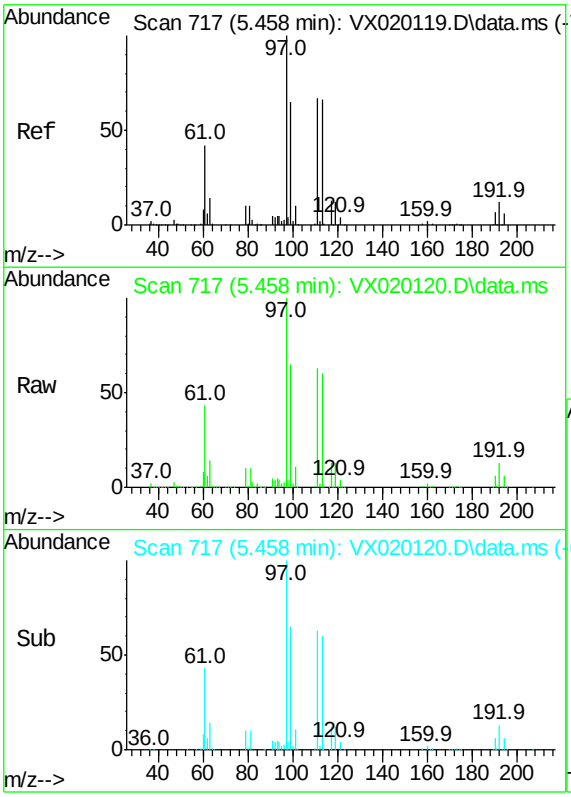


#31 (-)
Cyclohexane
Concen: 119.54 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 56 Resp: 518830

Ion	Ratio	Lower	Upper
56	100		
69	31.4	25.3	37.9
84	89.5	71.4	107.0

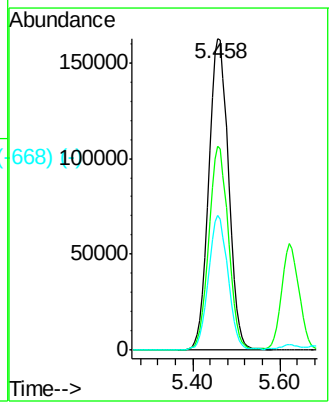




#32 (-)
1,1,1-Trichloroethane
Concen: 113.41 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 97 Resp: 506733

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	42.5	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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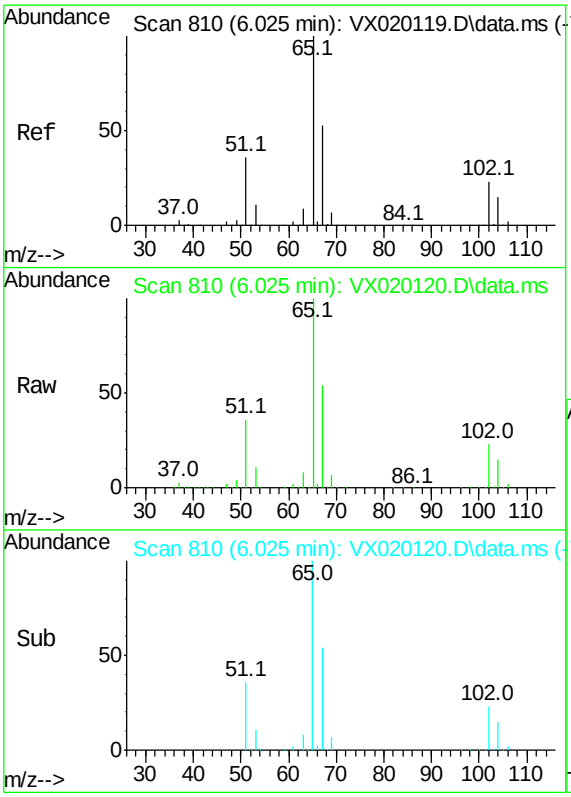
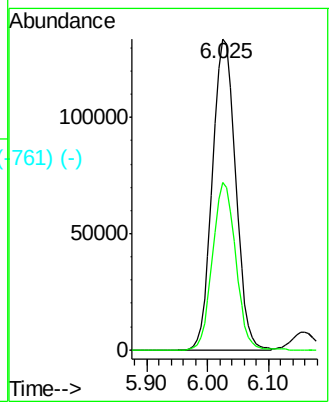
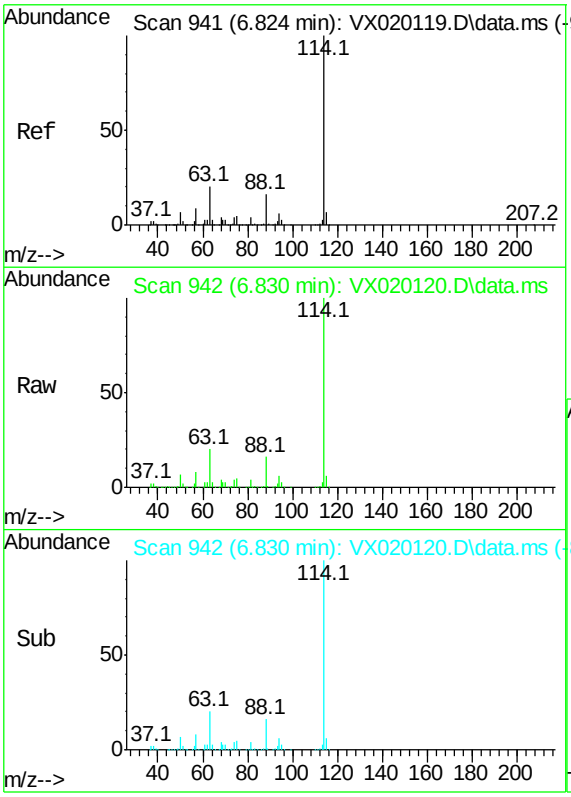


#33
1,2-Dichloroethane-d4
Concen: 98.96 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 65 Resp: 351222

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	105.4

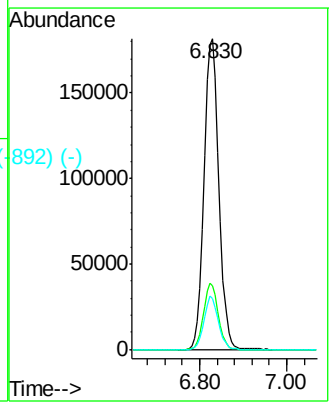




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:114 Resp: 436558

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	16.4	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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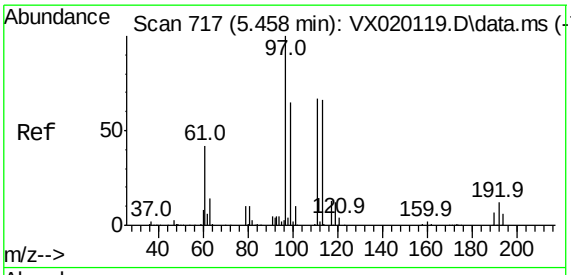
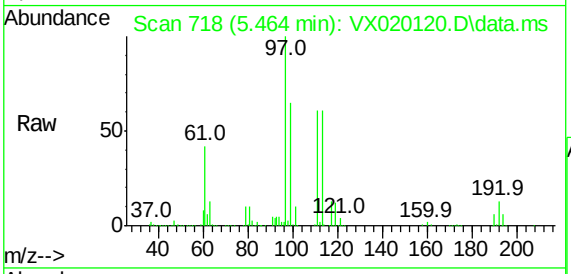
12/21/2020 3:57:58 PM

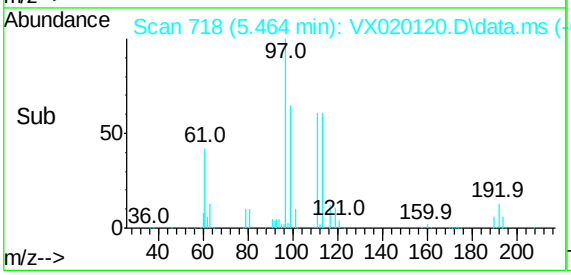


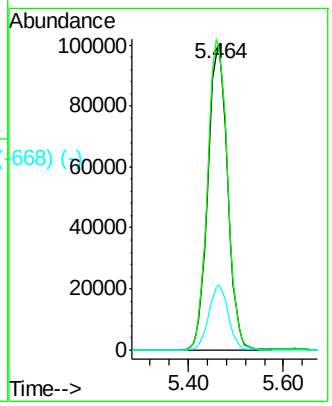
#35
Dibromofluoromethane
Concen: 100.76 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

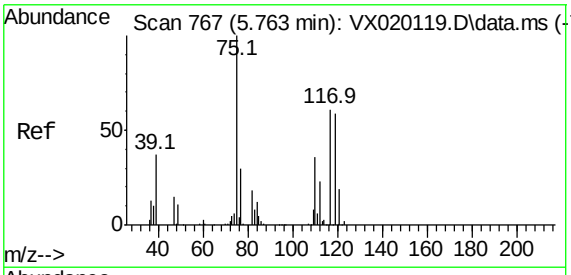
Tgt Ion:113 Resp: 285418

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.9	122.9
192	20.9	16.7	25.1





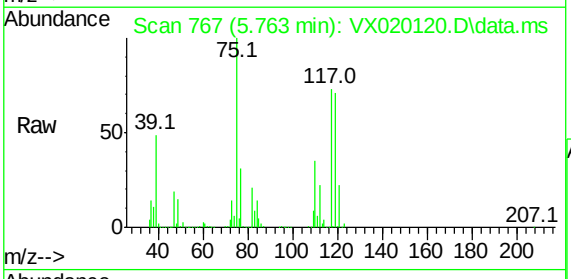


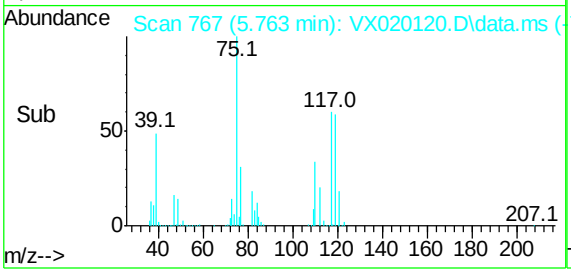


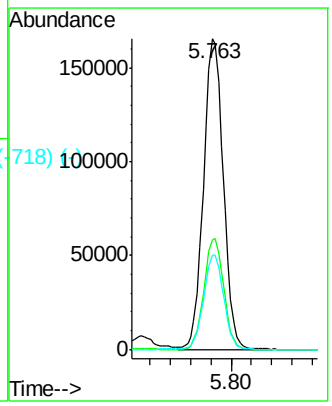
#36
1,1-Dichloropropene
Concen: 113.02 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 75 Resp: 445443

Ion	Ratio	Lower	Upper
75	100		
110	35.7	18.1	54.4
77	30.8	25.3	37.9







Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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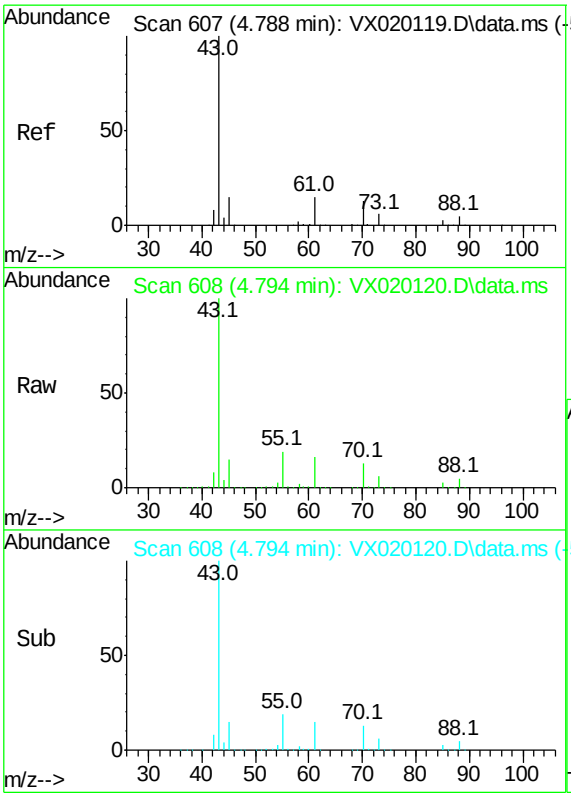
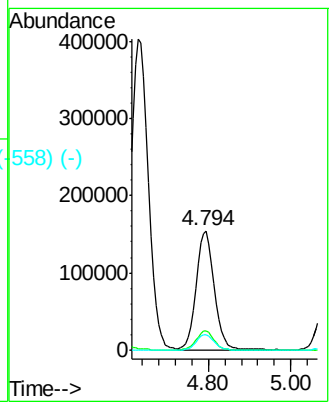
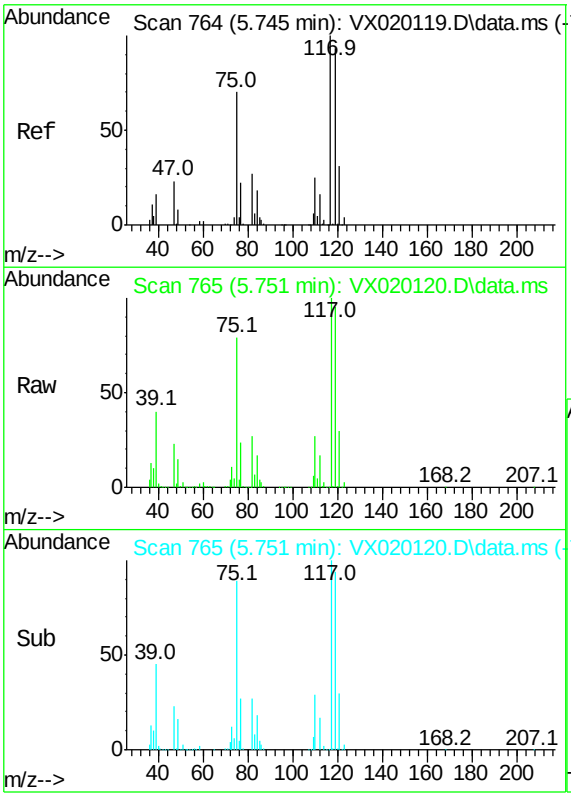


#37 (-)
Ethyl Acetate
Concen: 110.78 ug/l
RT: 4.794 min Scan# 608
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 454697

Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.8	19.2
70	12.8	10.5	15.7

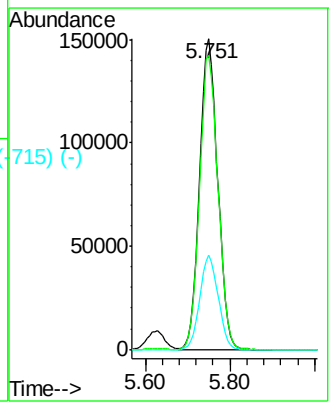




#38 (-)
Carbon Tetrachloride
Concen: 113.63 ug/l
RT: 5.751 min Scan# 765
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:117 Resp: 435827

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.2	114.2
121	30.4	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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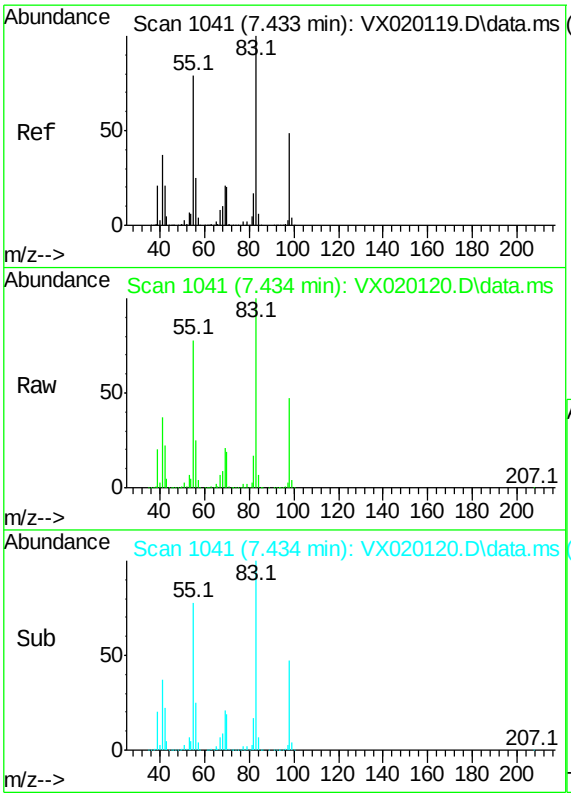
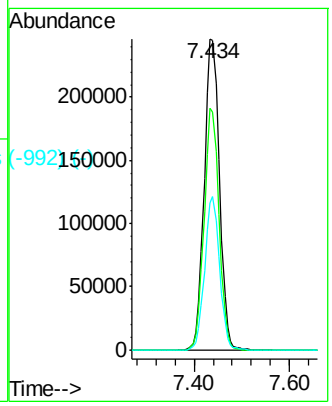
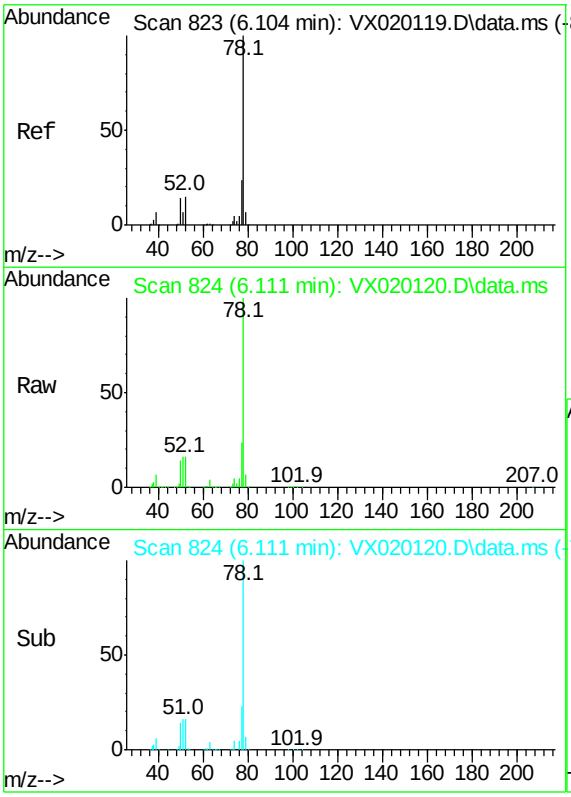


#39
Methylcyclohexane
Concen: 119.39 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 83 Resp: 545238

Ion	Ratio	Lower	Upper
83	100		
55	77.6	58.9	88.3
98	47.5	38.1	57.1

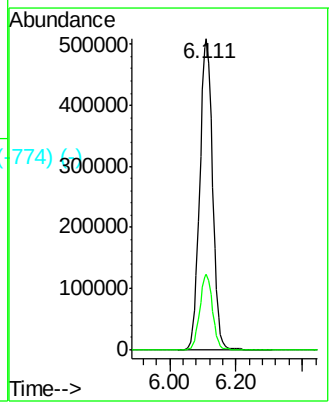




#40
Benzene
Concen: 109.54 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 78 Resp: 1342838

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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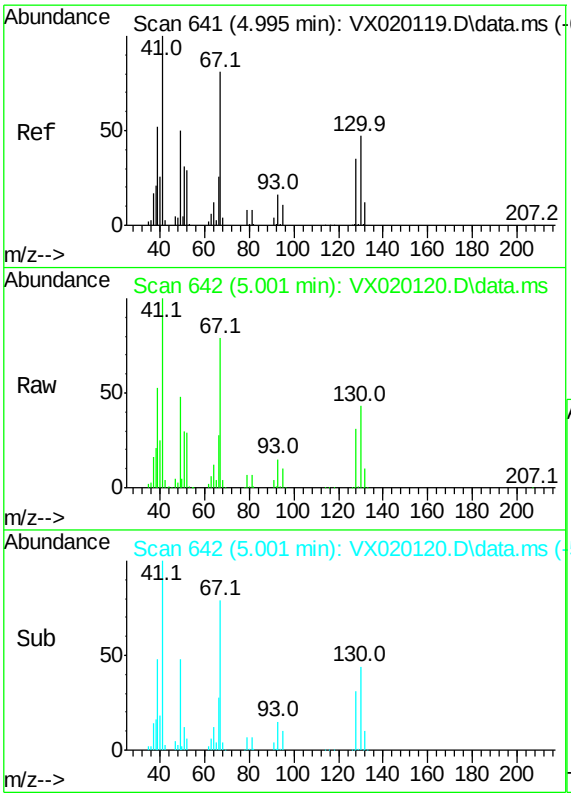
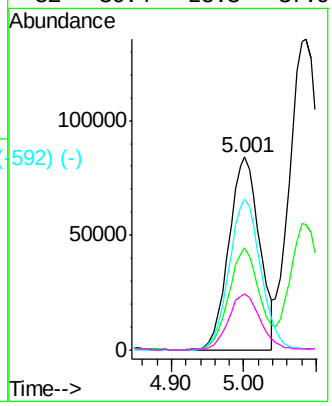
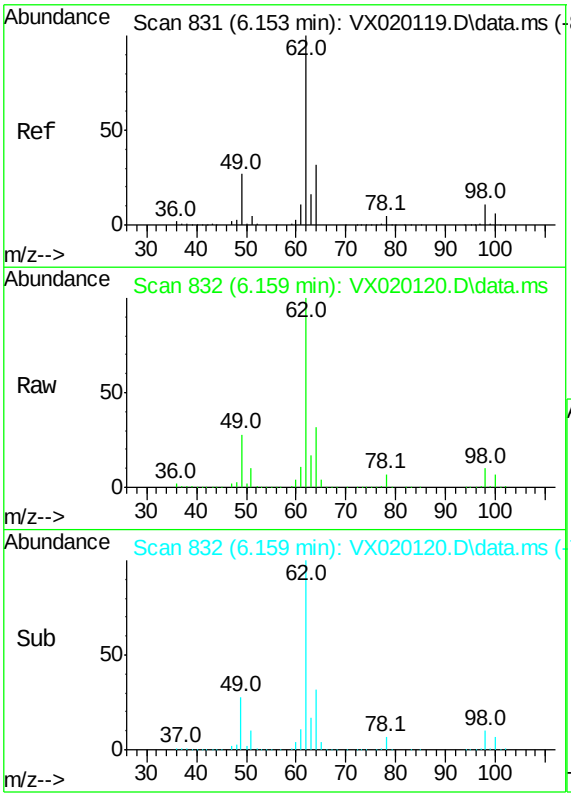


#41
Methacrylonitrile
Concen: 108.65 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 41 Resp: 244523

Ion	Ratio	Lower	Upper
41	100		
39	54.0	42.5	63.7
67	81.6	65.0	97.6
52	30.4	25.3	37.9

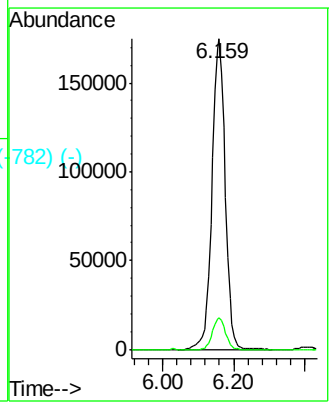




#42
1,2-Dichloroethane
Concen: 108.06 ug/l
RT: 6.159 min Scan# 832
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 62 Resp: 455514

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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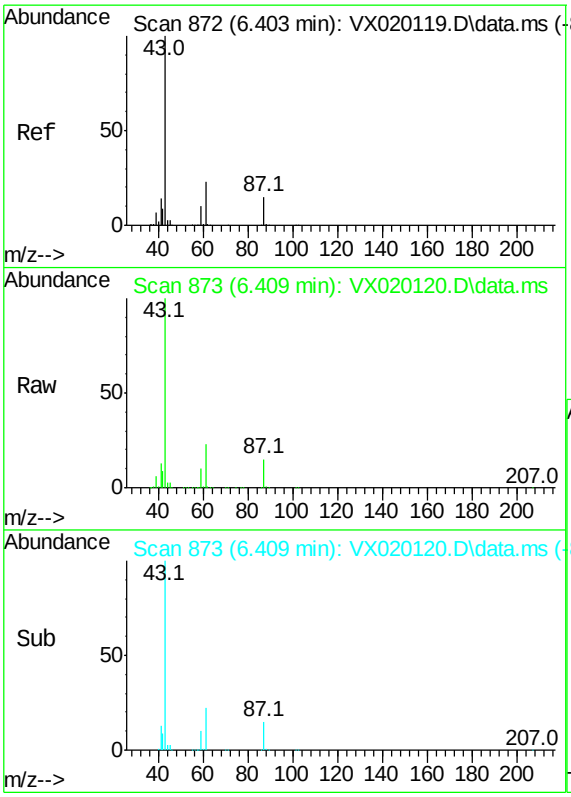
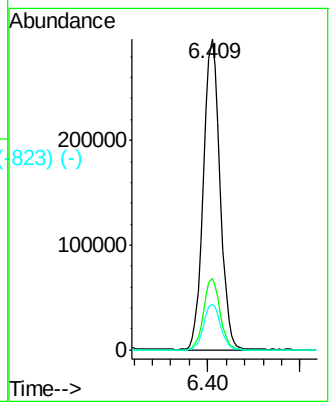
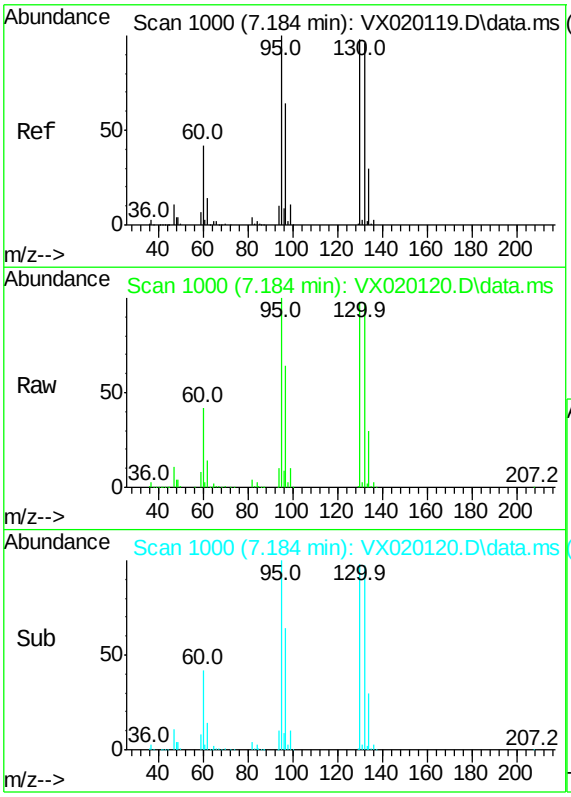


#43
Isopropyl Acetate
Concen: 111.05 ug/l
RT: 6.409 min Scan# 873
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 737235

Ion	Ratio	Lower	Upper
43	100		
61	22.8	18.2	27.4
87	15.0	12.5	18.7

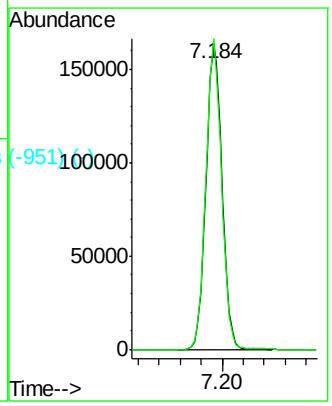




#44
Trichloroethene
Concen: 109.43 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:130 Resp: 347849

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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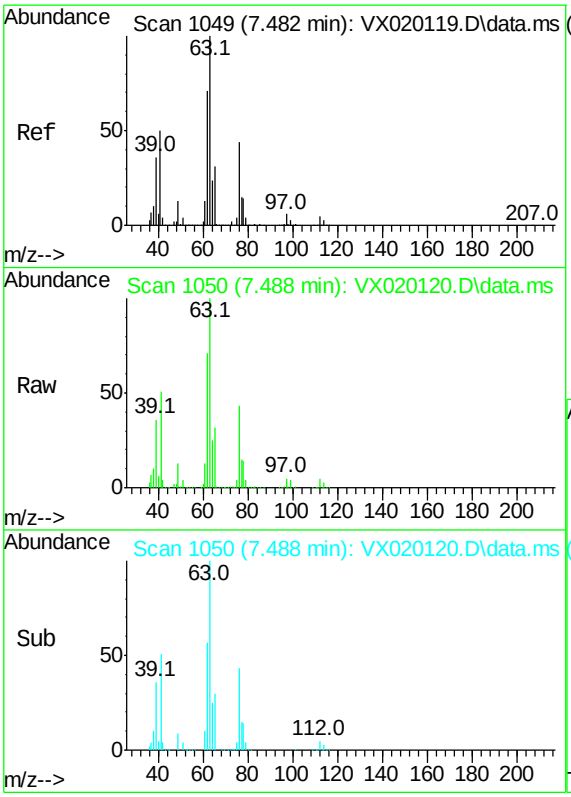
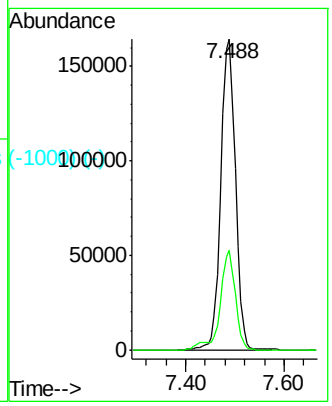
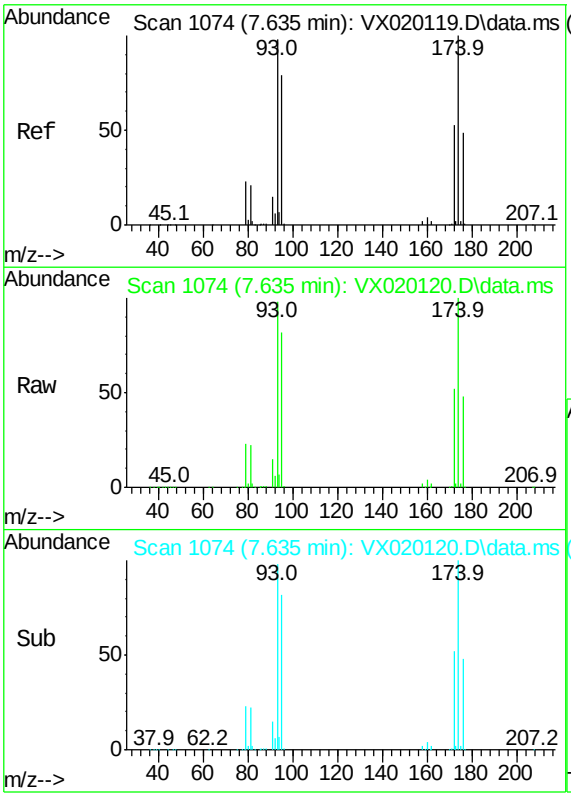


#45
1,2-Dichloropropane
Concen: 110.66 ug/l
RT: 7.488 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 63 Resp: 341420

Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.7	38.5

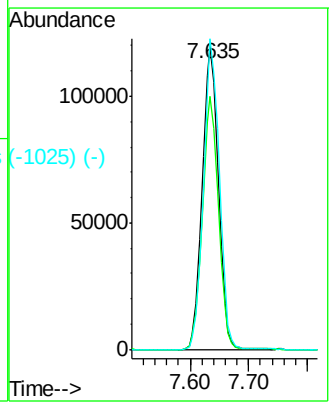




#46
Dibromomethane
Concen: 109.54 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 93 Resp: 228557

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.8	100.2
174	100.9	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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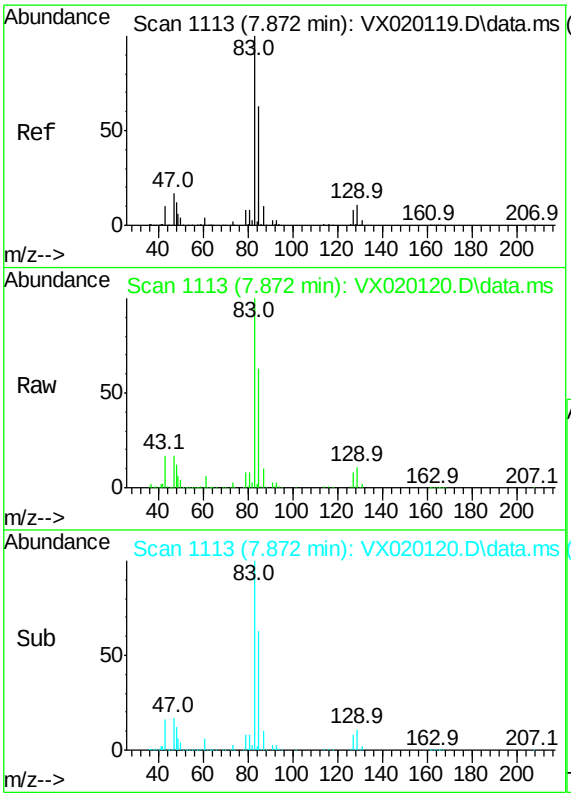
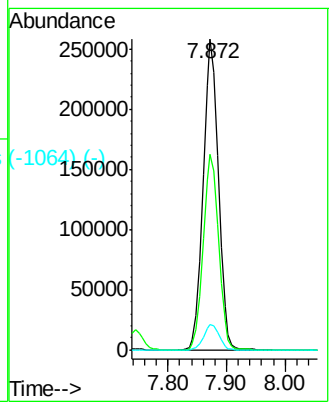
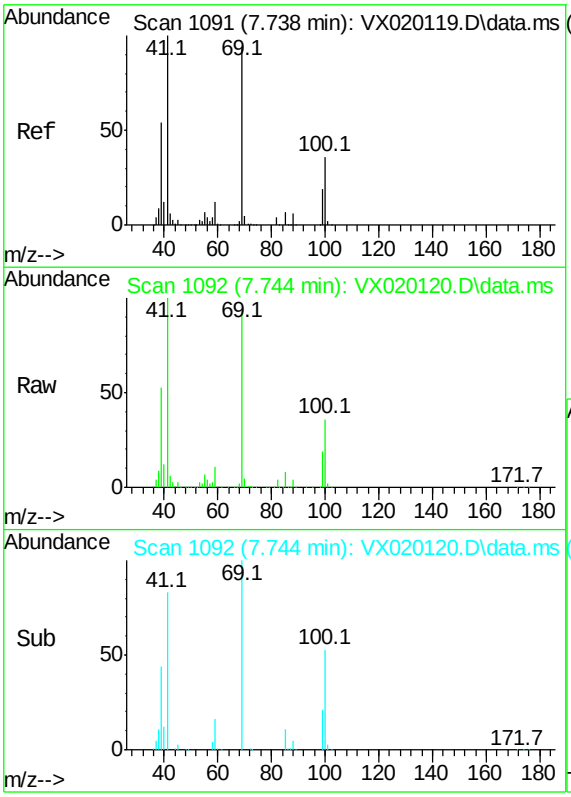


#47
Bromodichloromethane
Concen: 112.74 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 83 Resp: 464172

Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.4	77.0
127	8.2	6.8	10.2

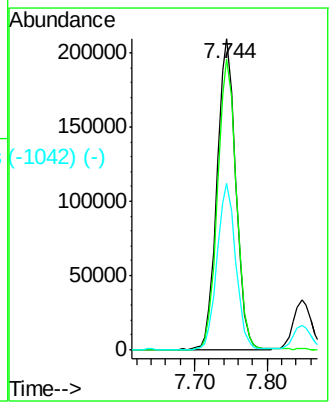




#48
Methyl methacrylate
Concen: 113.23 ug/l
RT: 7.744 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 41 Resp: 370006

Ion	Ratio	Lower	Upper
41	100		
69	93.9	76.0	114.0
39	53.2	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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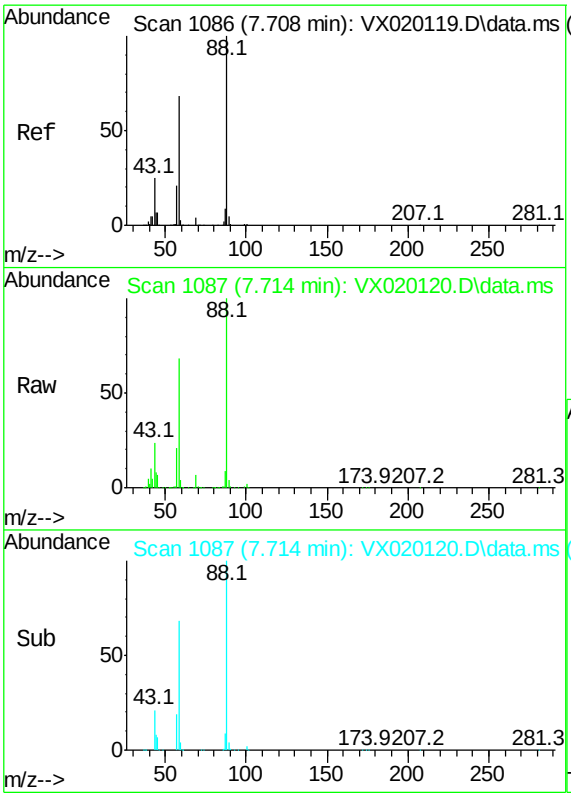
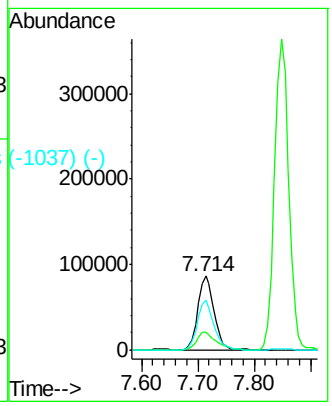
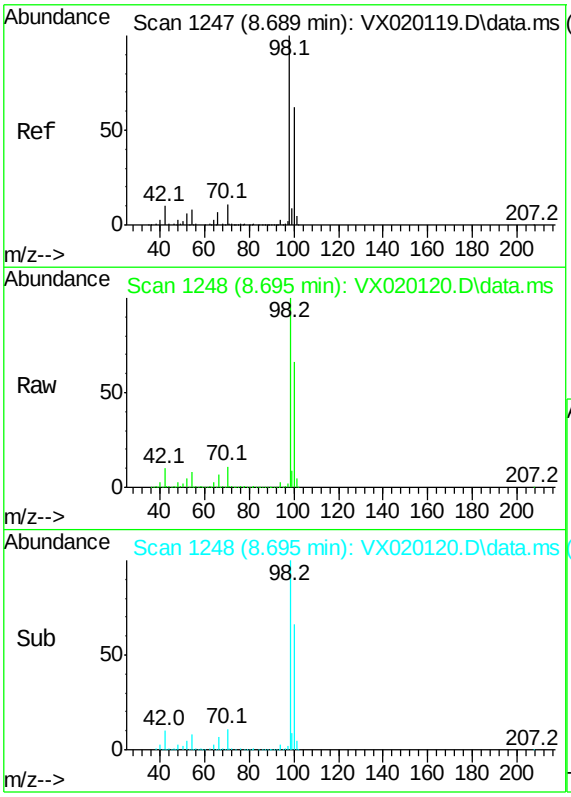


#49
1,4-Dioxane
Concen: 2157.87 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 88 Resp: 169136

Ion	Ratio	Lower	Upper
88	100		
43	28.8	23.2	34.8
58	69.3	55.0	82.4

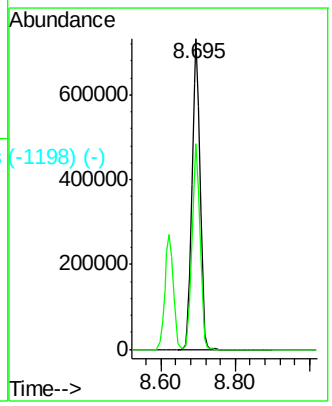




#50
Toluene-d8
Concen: 103.65 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 98 Resp: 1115995

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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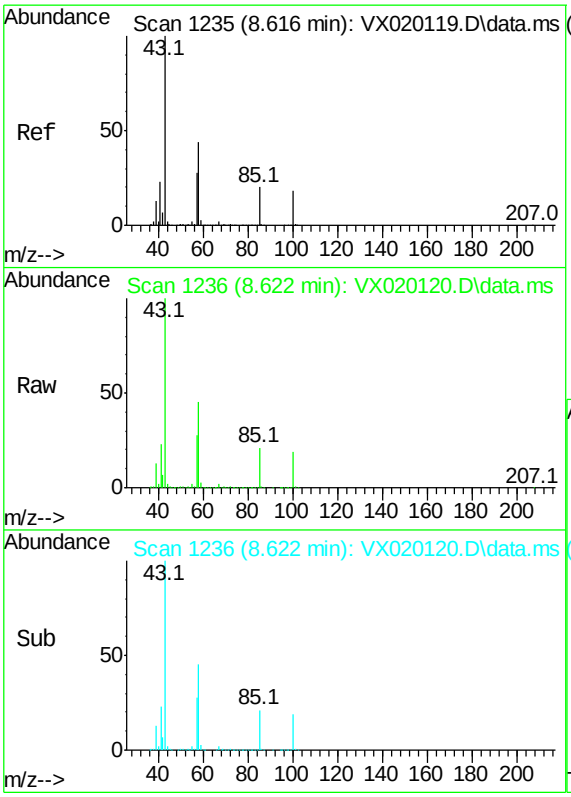
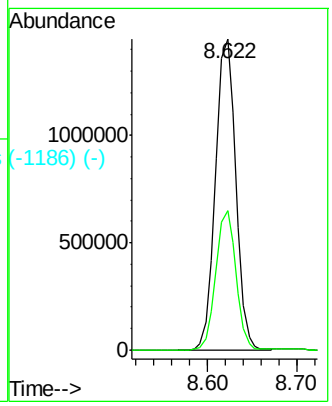
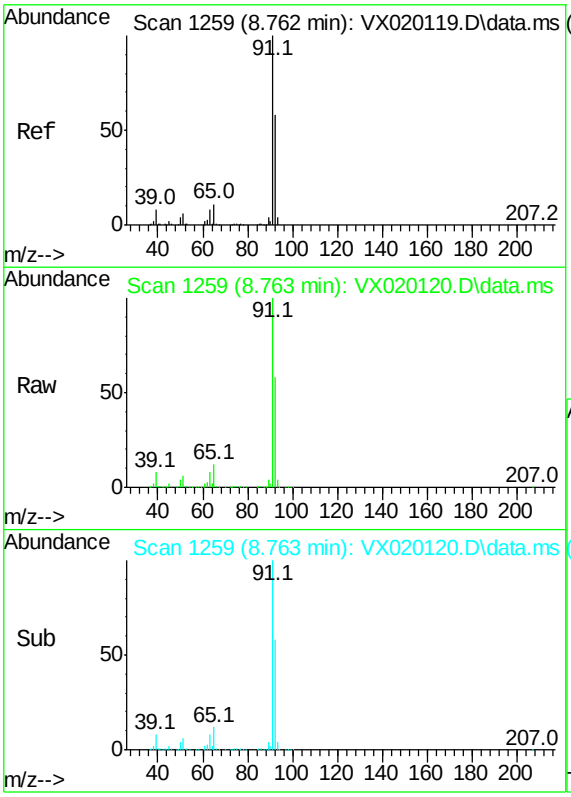


#51
4-Methyl-2-Pentanone
Concen: 564.05 ug/l
RT: 8.622 min Scan# 1236
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 2292832

Ion	Ratio	Lower	Upper
43	100		
58	44.3	35.4	53.0

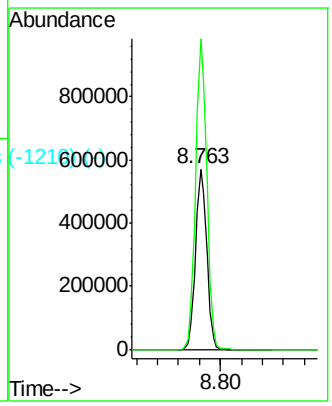




#52
Toluene
Concen: 110.50 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 92 Resp: 843688

Ion	Ratio	Lower	Upper
92	100		
91	172.0	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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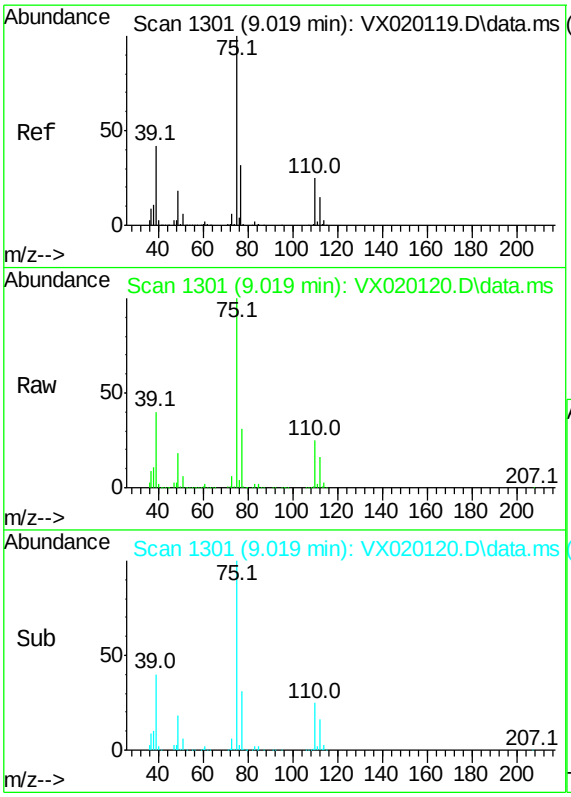
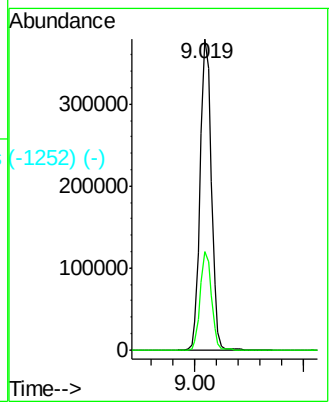
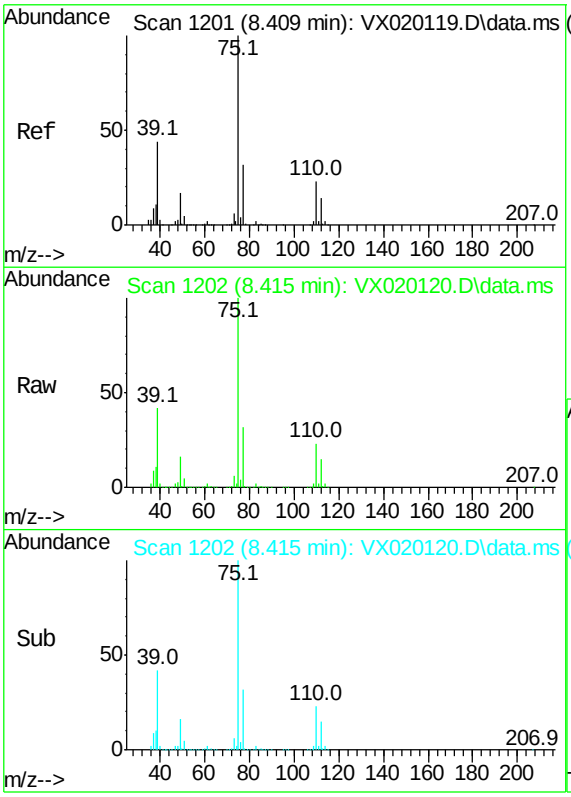


#53
t-1,3-Dichloropropene
Concen: 117.53 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 75 Resp: 536022

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3

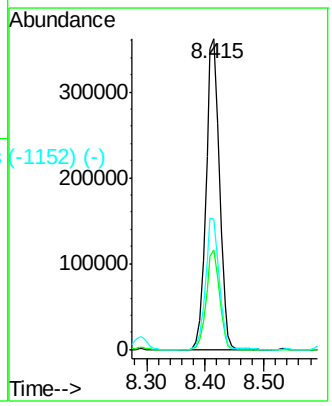




#54
cis-1,3-Dichloropropene
Concen: 115.08 ug/l
RT: 8.415 min Scan# 1202
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 75 Resp: 571828

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5
39	41.7	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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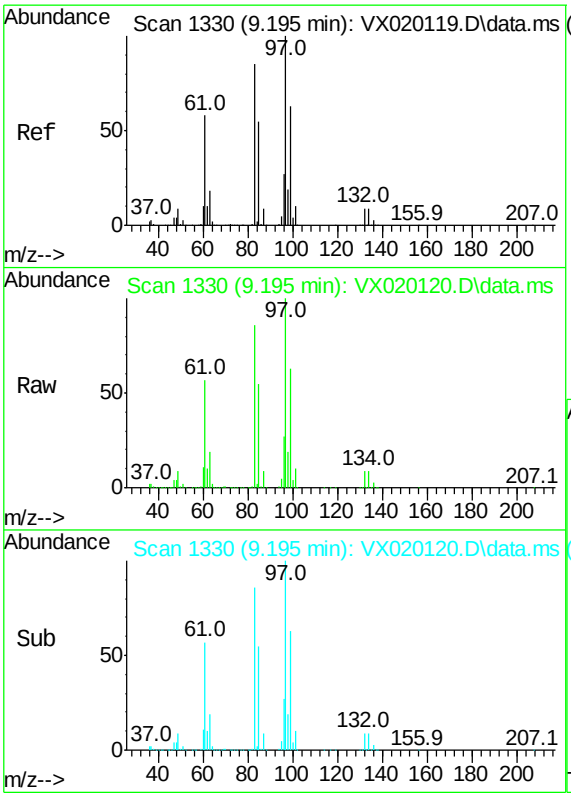
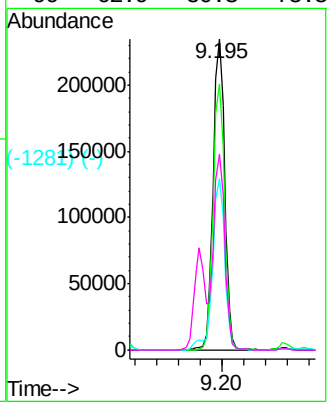
12/21/2020 3:57:58 PM

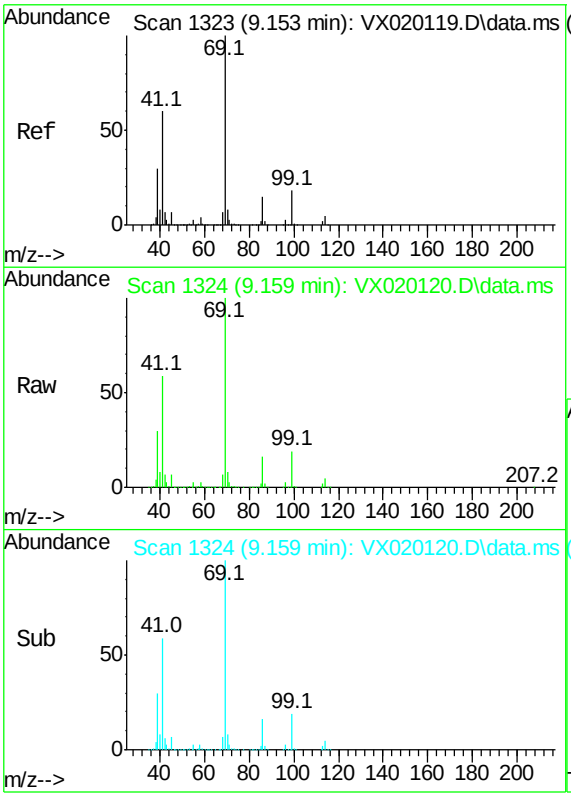


#55
1,1,2-Trichloroethane
Concen: 110.24 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 97 Resp: 342851

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.3	103.9
85	55.0	44.3	66.5
99	62.9	50.3	75.5

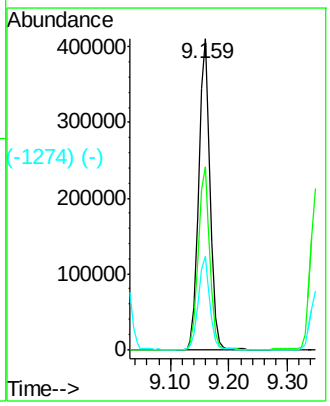




#56
Ethyl methacrylate
Concen: 117.26 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 69 Resp: 550792

Ion	Ratio	Lower	Upper
69	100		
41	59.1	46.8	70.2
39	30.0	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
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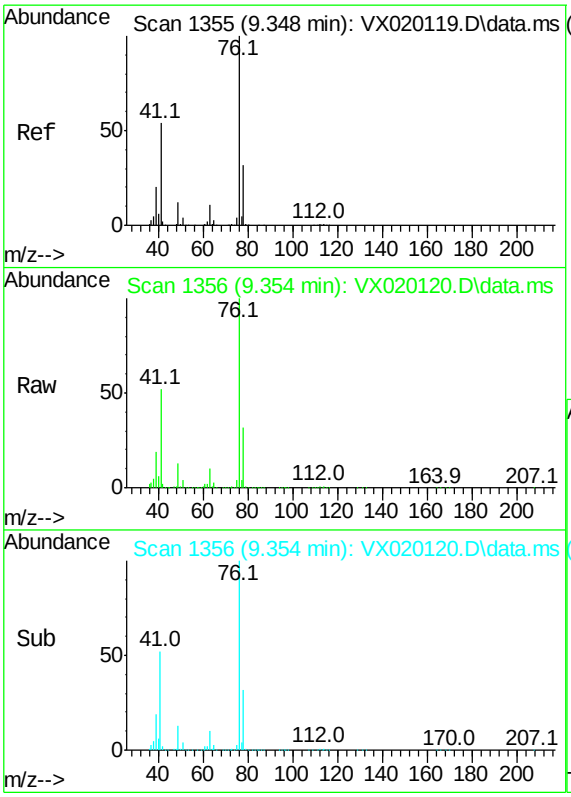
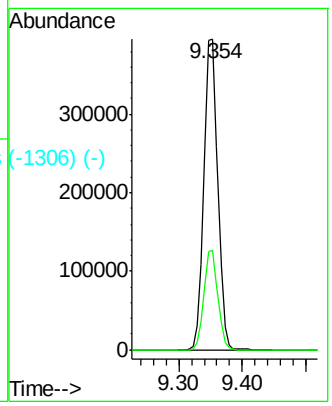
12/21/2020 3:57:58 PM

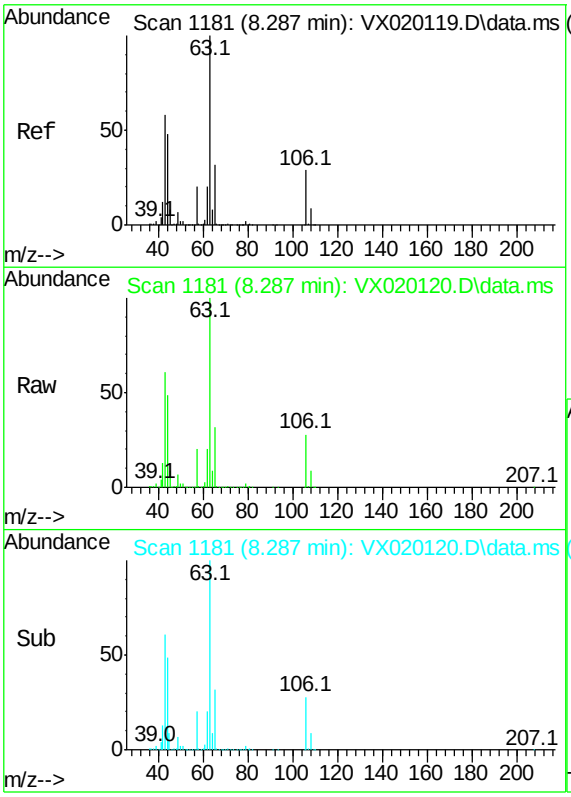


#57
1,3-Dichloropropane
Concen: 109.78 ug/l
RT: 9.354 min Scan# 1356
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 76 Resp: 584398

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

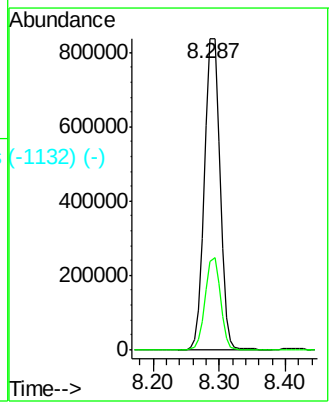




#58
2-Chloroethyl Vinyl ether
Concen: 540.45 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 63 Resp: 1343036

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
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Manual Integrations APPROVED
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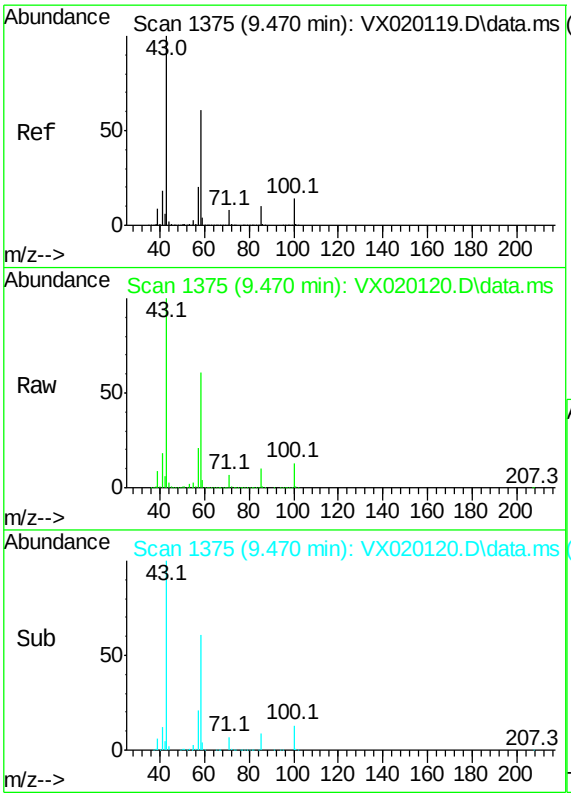
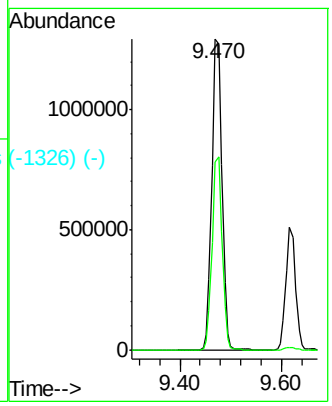
12/21/2020 3:57:58 PM

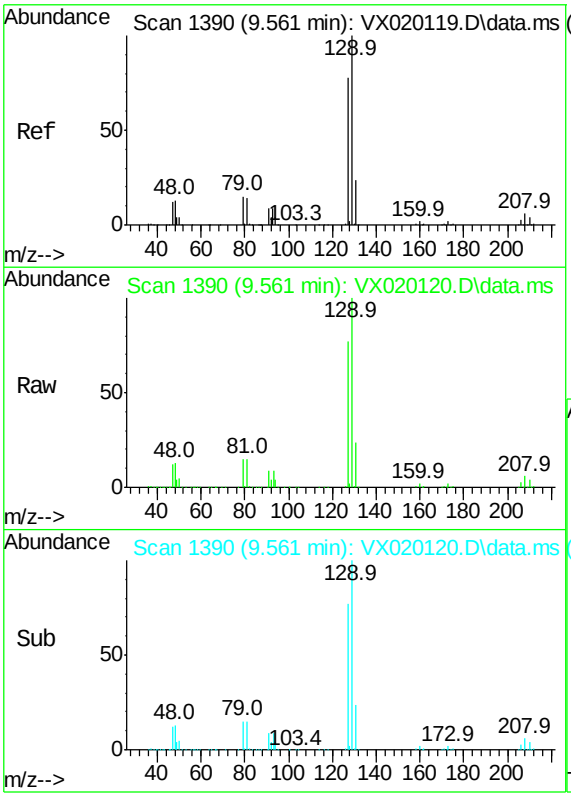


#58
2-Hexanone
Concen: 566.38 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 1775938

Ion	Ratio	Lower	Upper
43	100		
58	61.5	30.9	92.8

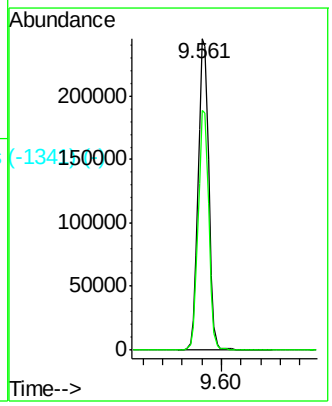




#60
Dibromochloromethane
Concen: 115.92 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:129 Resp: 364492

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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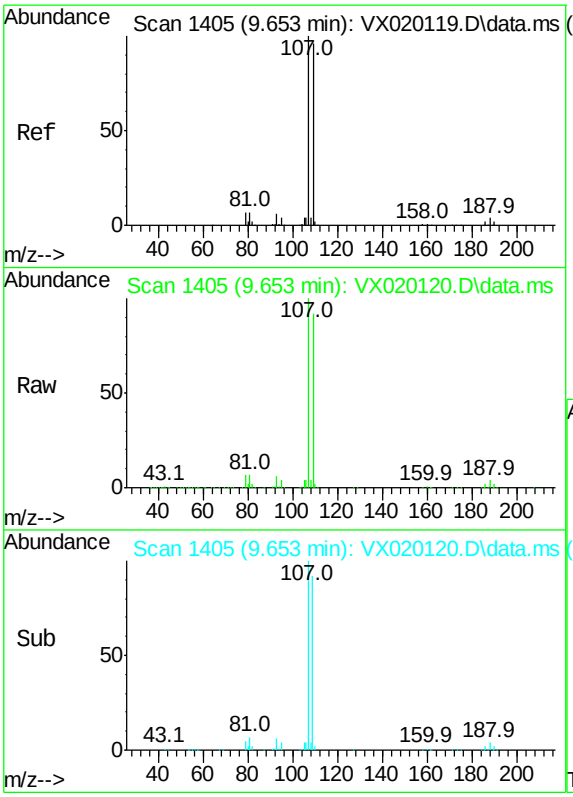
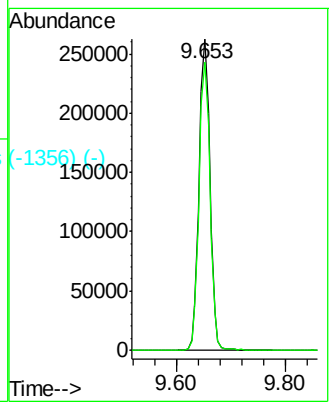
12/21/2020 3:57:58 PM

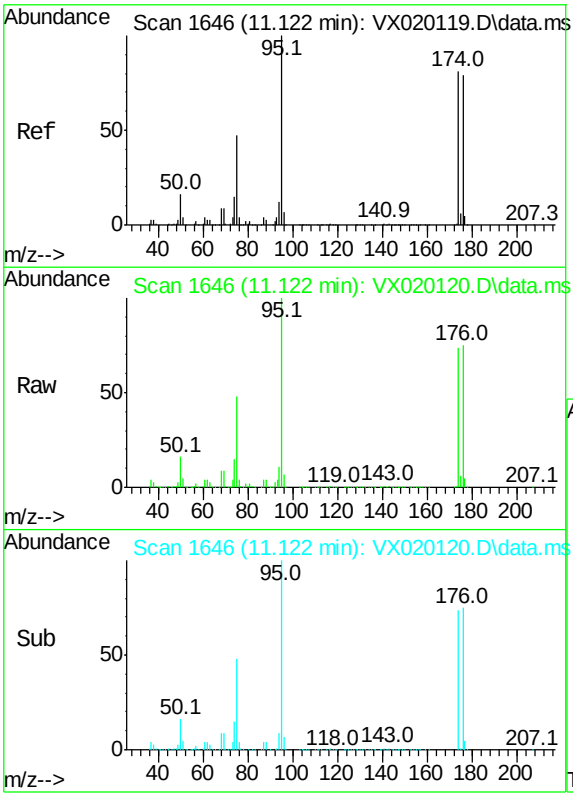


#61
1,2-Dibromoethane
Concen: 109.72 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:107 Resp: 362366

Ion	Ratio	Lower	Upper
107	100		
109	93.6	75.8	113.6

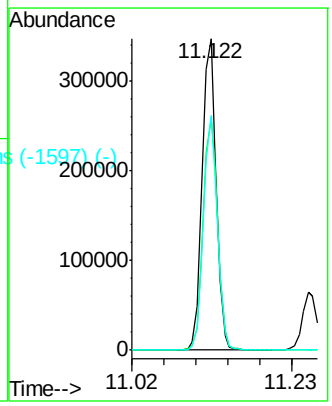




#62
4-Bromofluorobenzene
Concen: 106.30 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 95 Resp: 436028

Ion	Ratio	Lower	Upper
95	100		
174	76.9	0.0	154.6
176	74.8	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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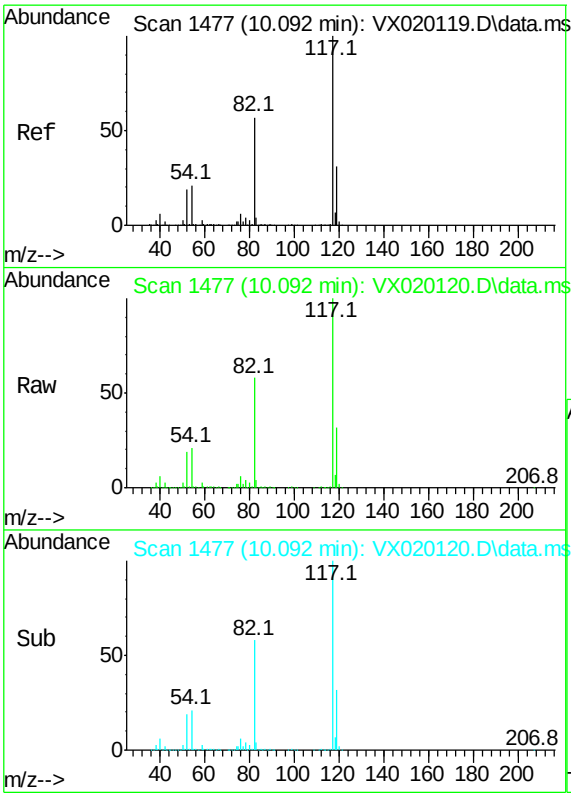
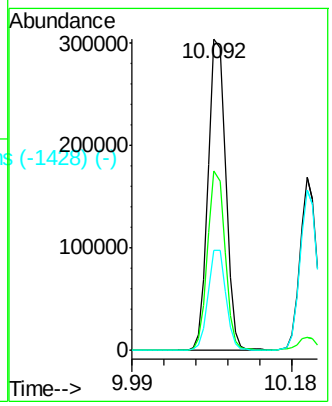
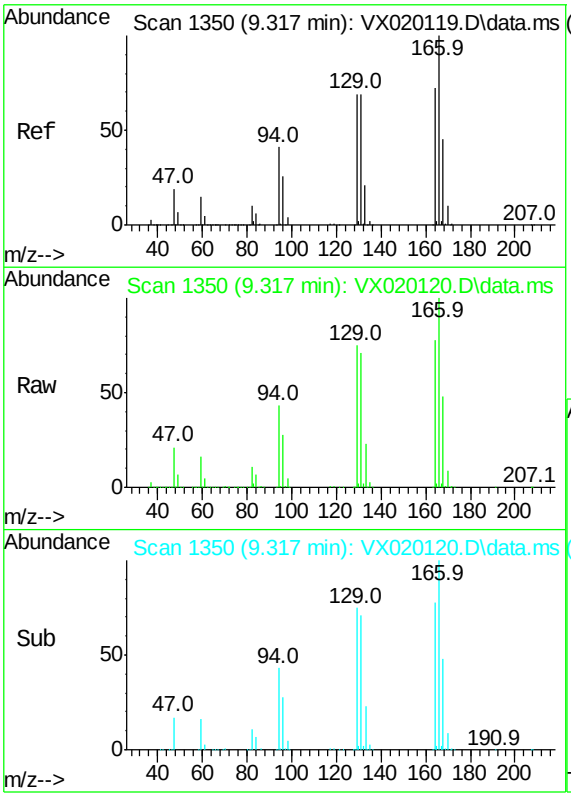


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:117 Resp: 418294

Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.4	71.2
119	32.0	26.6	39.8

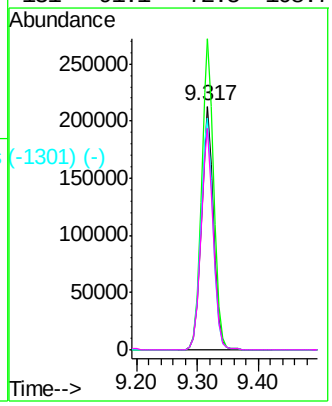




#64
Tetrachloroethene
Concen: 106.70 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:164 Resp: 298888

Ion	Ratio	Lower	Upper
164	100		
166	127.8	103.4	155.2
129	95.4	70.8	106.2
131	91.1	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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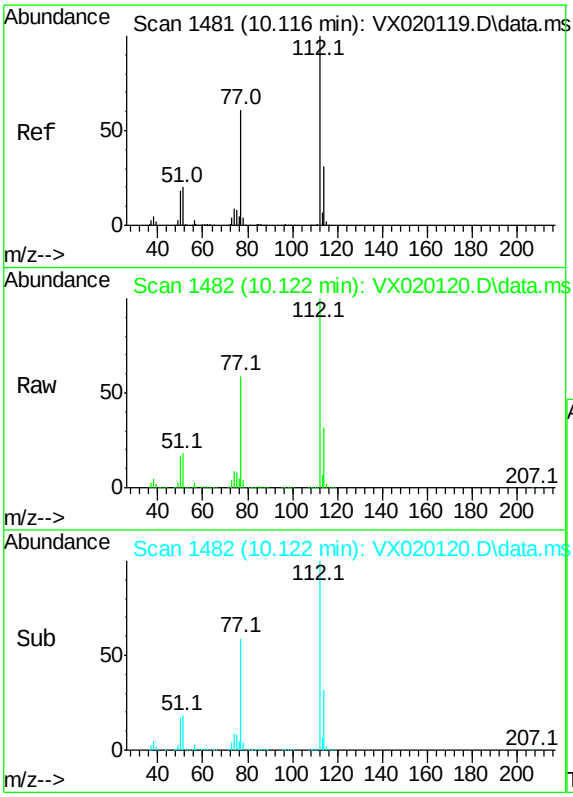
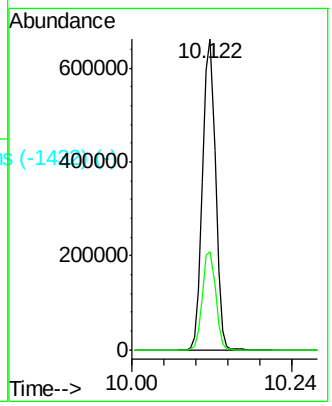
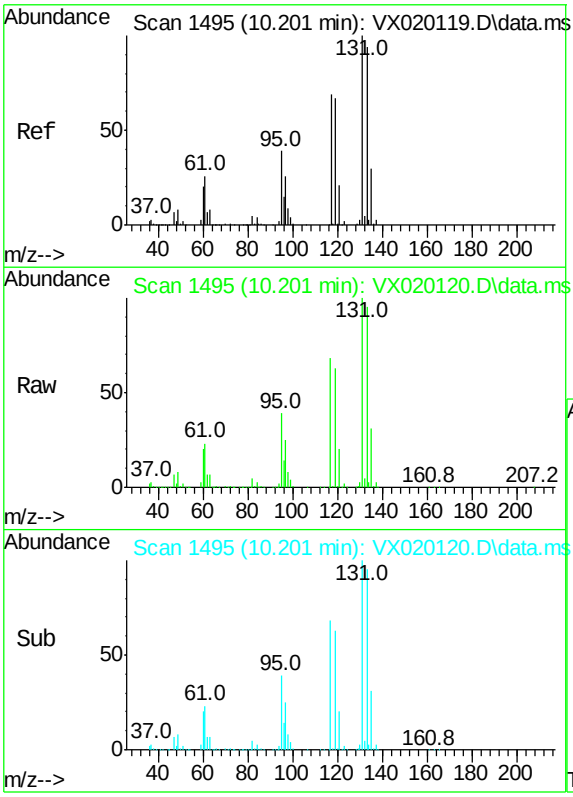


#65
Chlorobenzene
Concen: 105.66 ug/l
RT: 10.122 min Scan# 1482
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:112 Resp: 886168

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.8	38.6

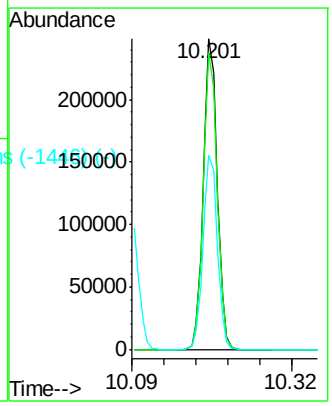




#66
1,1,1,2-Tetrachloroethane
Concen: 110.91 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:131 Resp: 334908

Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.7	143.1
119	64.8	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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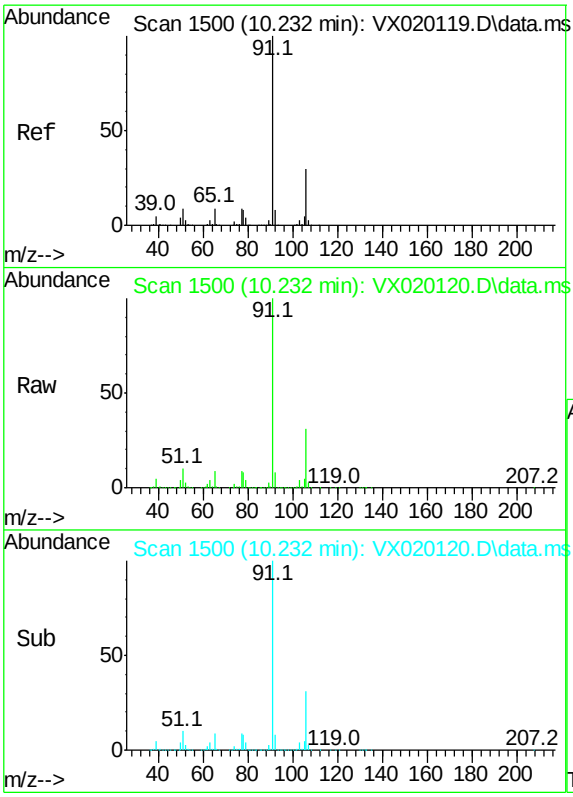
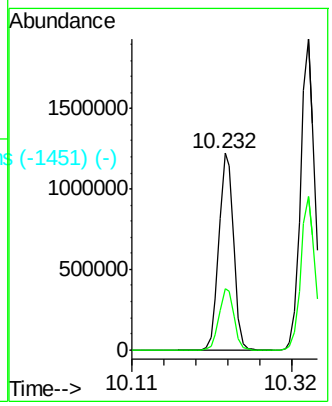
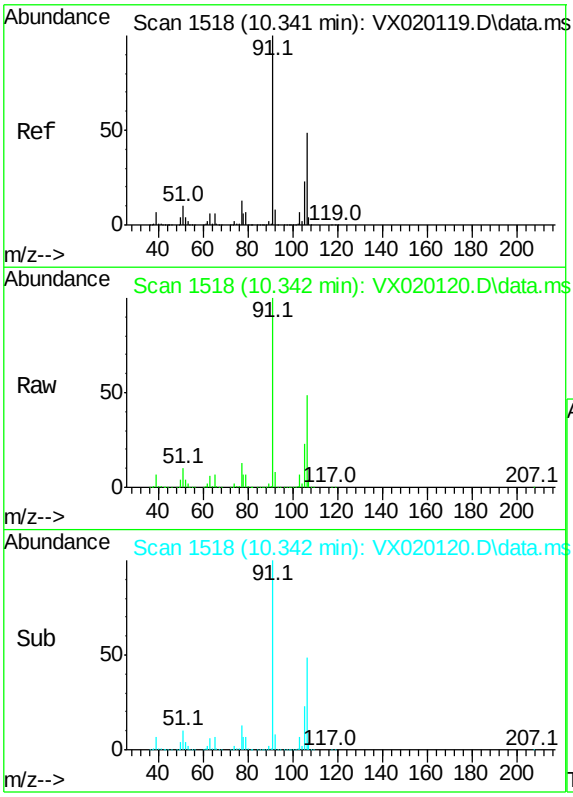


#67
Ethyl Benzene
Concen: 110.44 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 91 Resp: 1633994

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.6	37.0

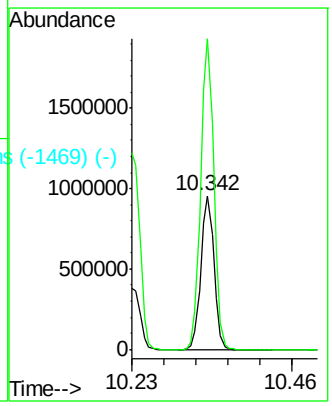




#68
m/p-Xylenes
Concen: 221.87 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:106 Resp: 1237985

Ion	Ratio	Lower	Upper
106	100		
91	202.7	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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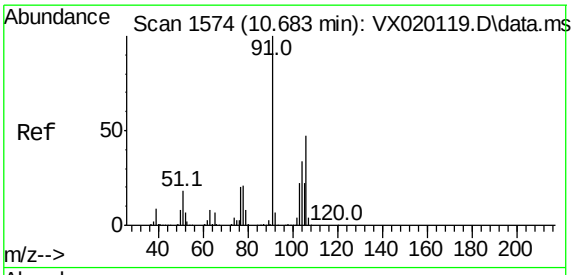
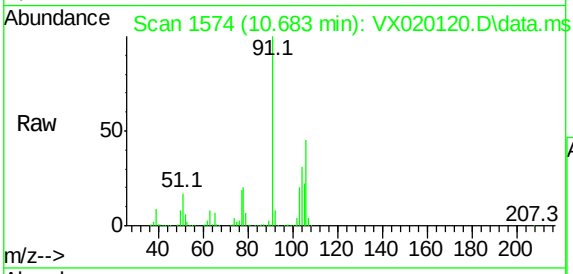
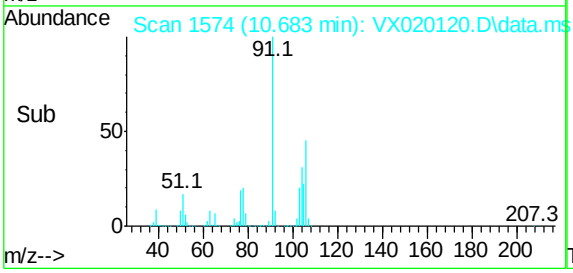


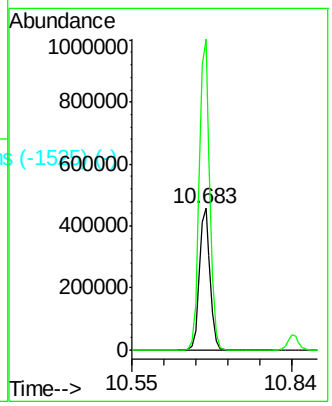
#69
o-Xylene
Concen: 109.19 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

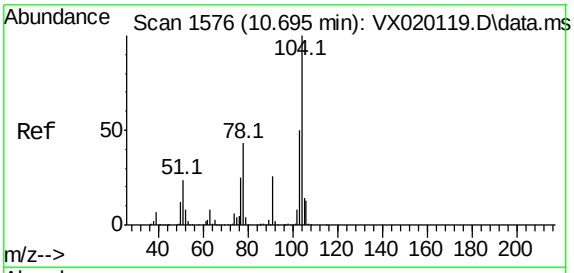
Tgt Ion:106 Resp: 587896

Ion	Ratio	Lower	Upper
106	100		
91	219.4	108.1	324.2





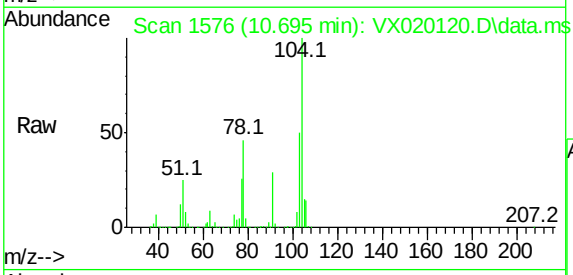


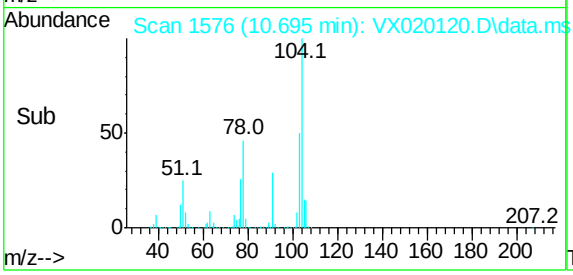


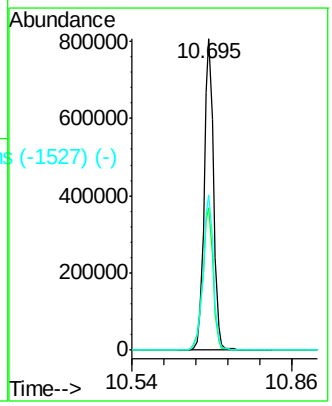
#70
Styrene
Concen: 113.26 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:104 Resp: 1030466

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.0	60.0
103	54.2	43.4	65.0







Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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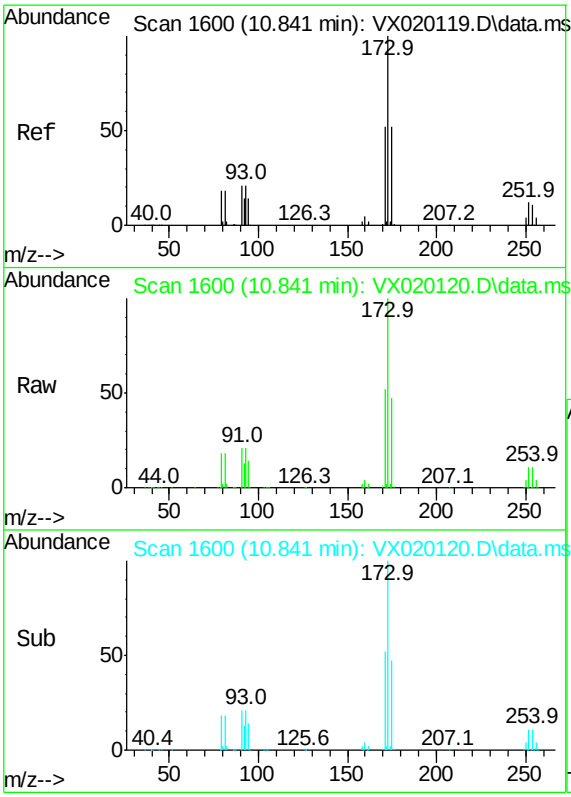
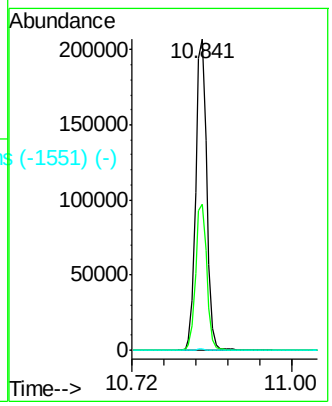
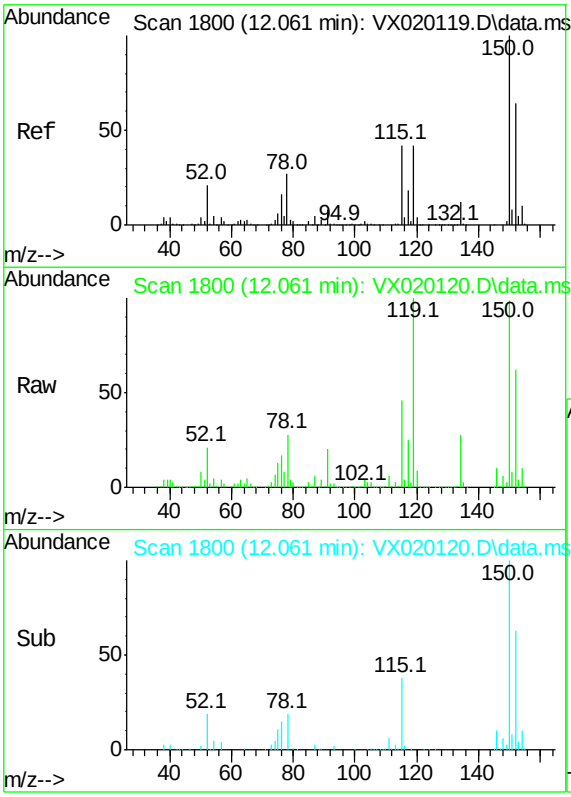


#71
Bromoform
Concen: 118.53 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:173 Resp: 279209

Ion	Ratio	Lower	Upper
173	100		
175	47.7	23.9	71.8
254	0.1	0.1	0.1#

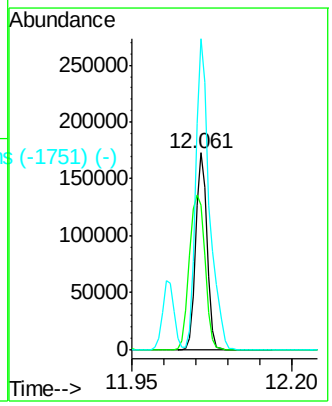




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:152 Resp: 214396

Ion	Ratio	Lower	Upper
152	100		
115	109.3	41.1	123.3
150	189.6	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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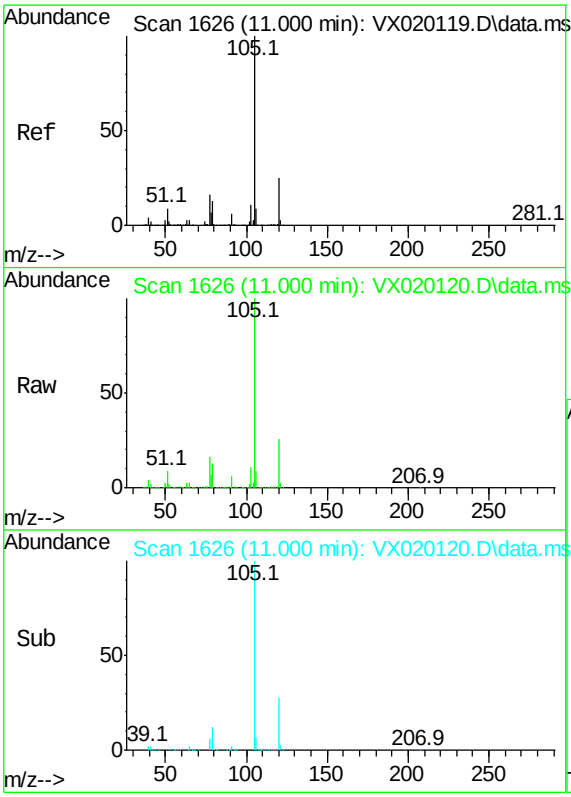
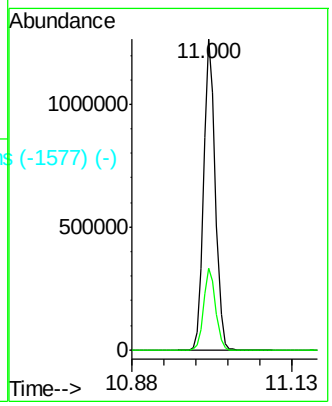
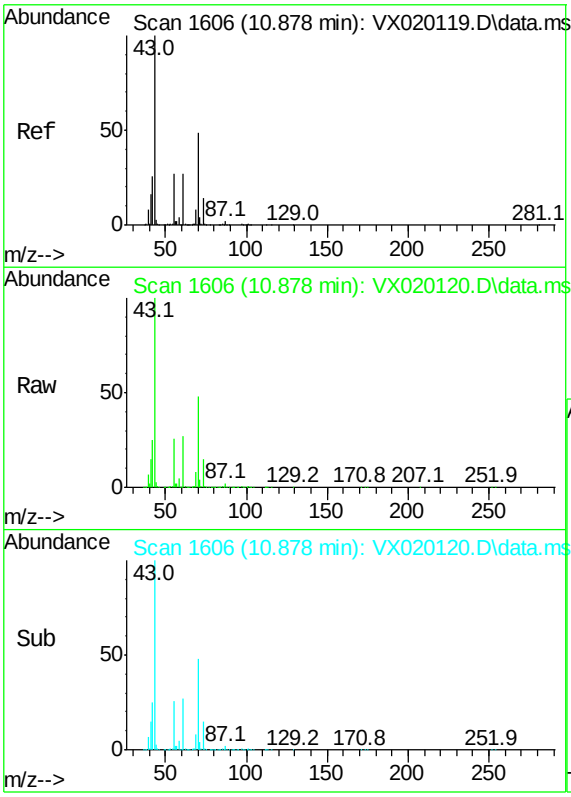


#73
Isopropylbenzene
Concen: 106.63 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:105 Resp: 1564158

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.6

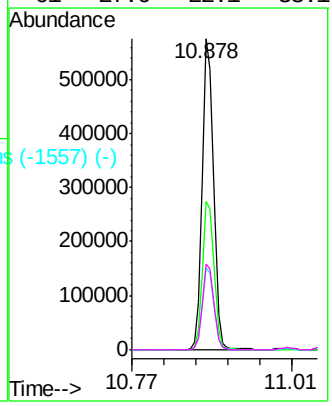




#74
N-amyl acetate
Concen: 112.45 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 43 Resp: 671095

Ion	Ratio	Lower	Upper
43	100		
70	48.8	39.0	58.6
55	26.8	21.5	32.3
61	27.6	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
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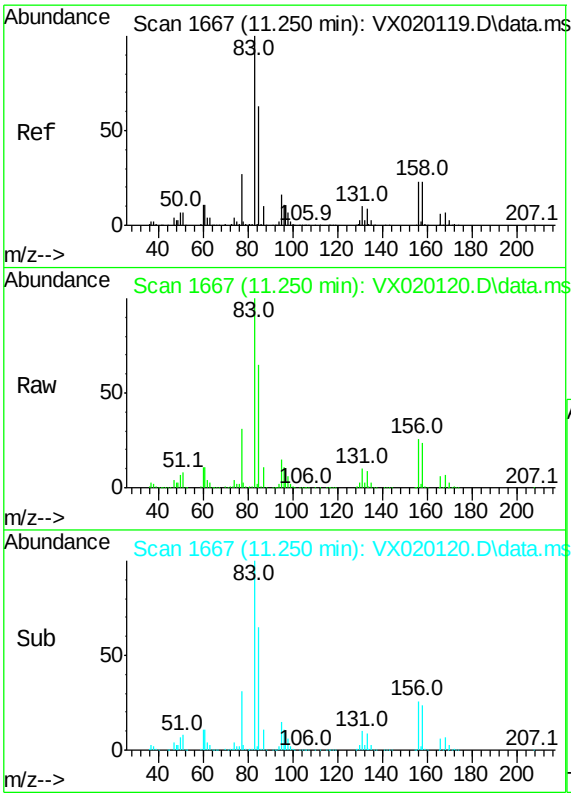
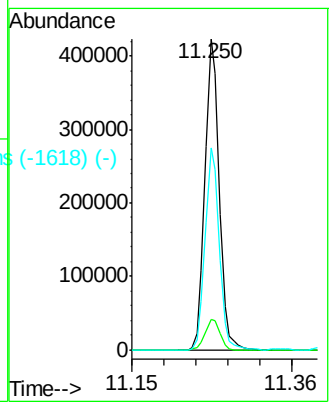
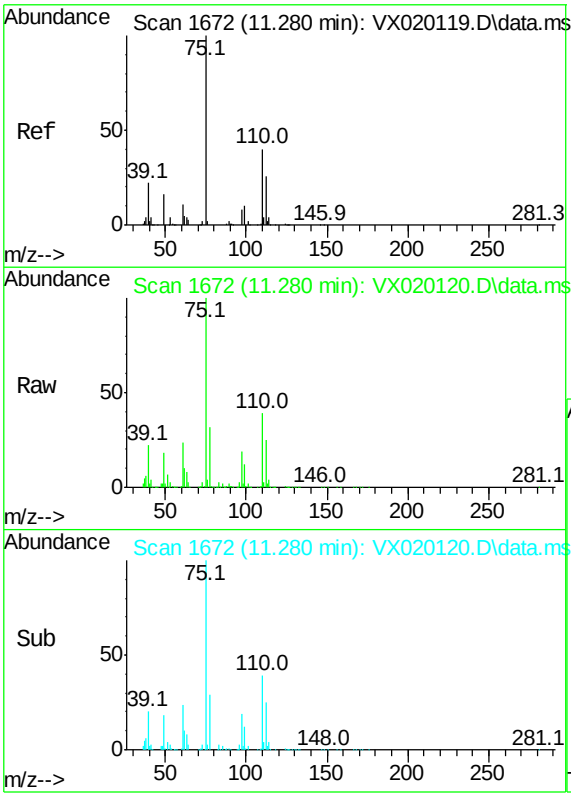


#75
1,1,2,2-Tetrachloroethane
Concen: 104.20 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 83 Resp: 545750

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.2
85	64.7	31.8	95.4

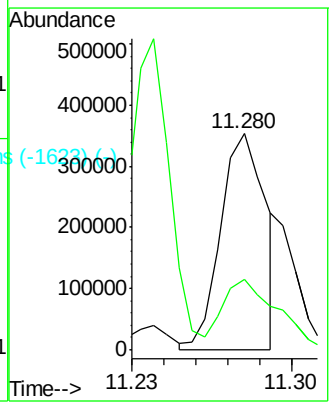




#76
1,2,3-Trichloropropane
Concen: 105.06 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 75 Resp: 512266

Ion	Ratio	Lower	Upper
75	100		
77	39.8	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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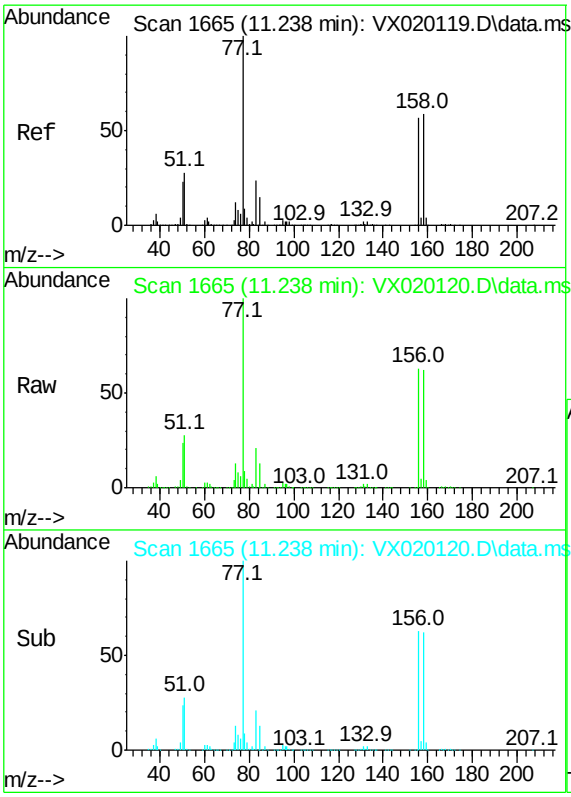
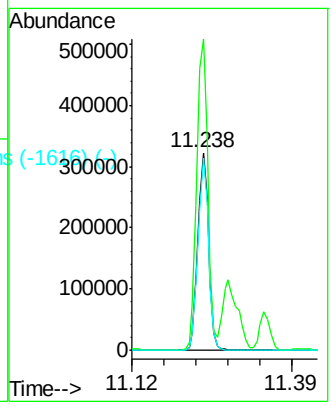
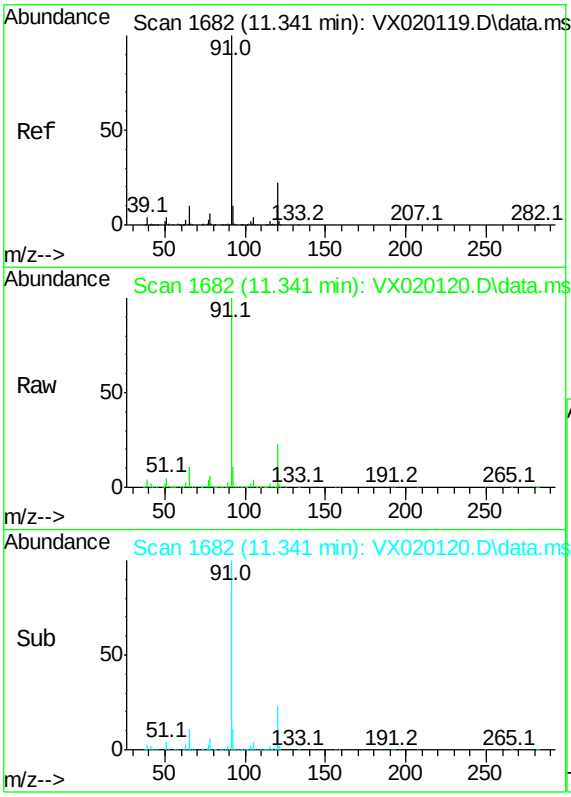


#77
Bromobenzene
Concen: 106.91 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:156 Resp: 404856

Ion	Ratio	Lower	Upper
156	100		
77	164.0	82.8	248.6
158	95.5	49.1	147.4

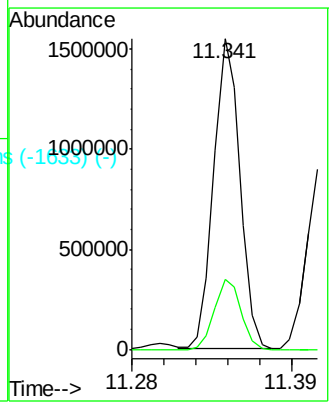




#78
n-propylbenzene
Concen: 110.59 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 91 Resp: 1851096

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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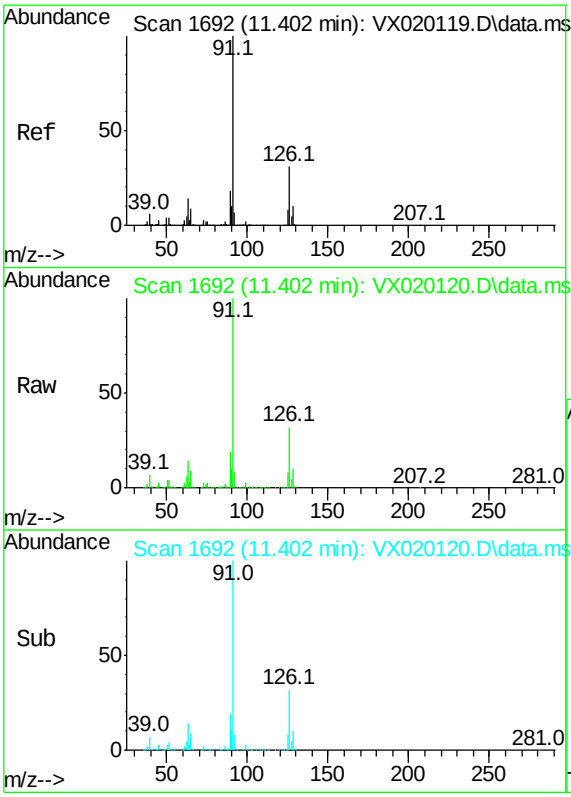
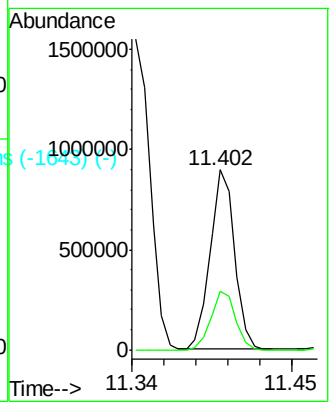
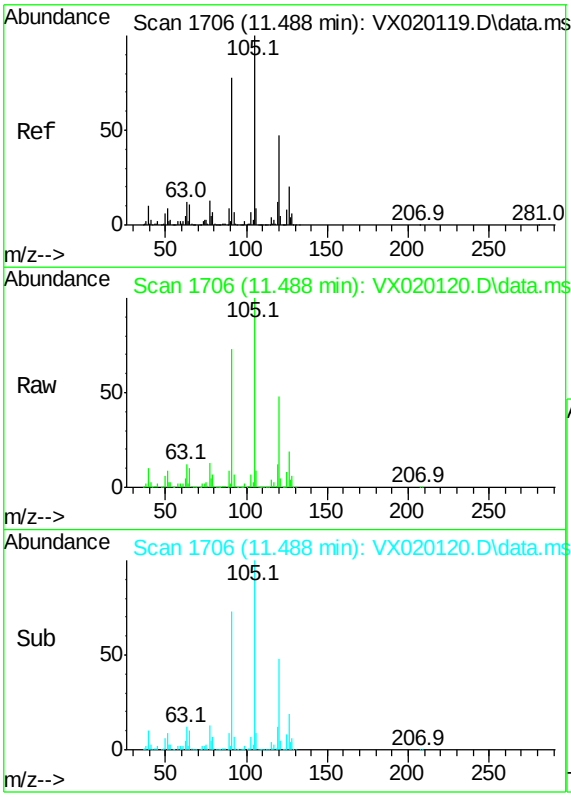


#78
2-Chlorotoluene
Concen: 106.36 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 91 Resp: 1106407

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.6	49.8

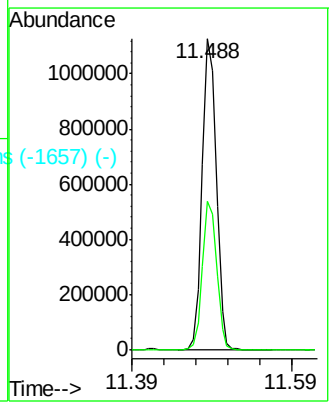




#80
1,3,5-Trimethylbenzene
Concen: 110.78 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:105 Resp: 1372334

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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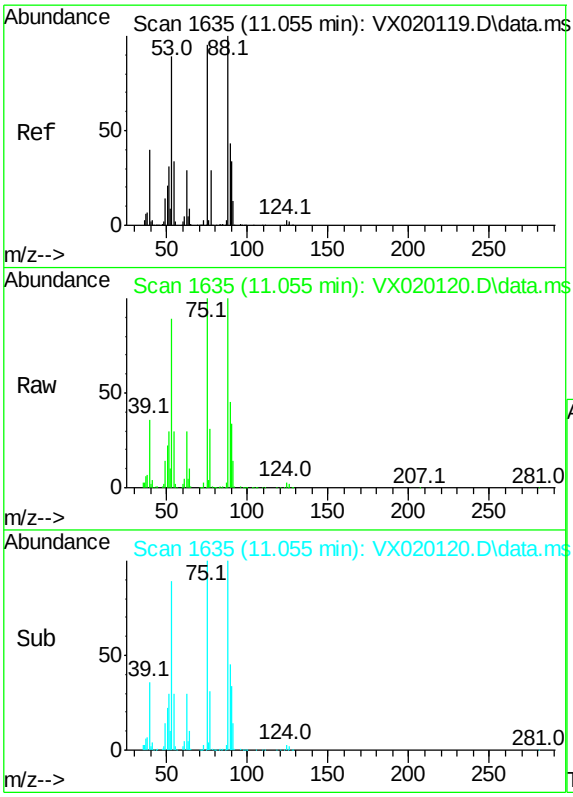
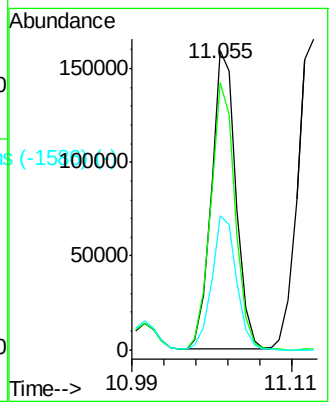
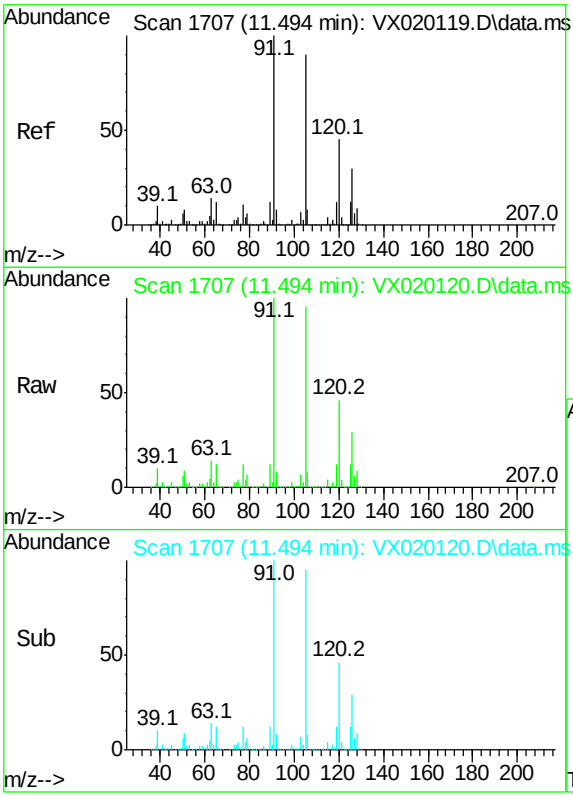


#81
trans-1,4-Dichloro-2-butene
Concen: 115.98 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 75 Resp: 195236

Ion	Ratio	Lower	Upper
75	100		
53	89.2	74.5	111.7
89	45.3	37.9	56.9

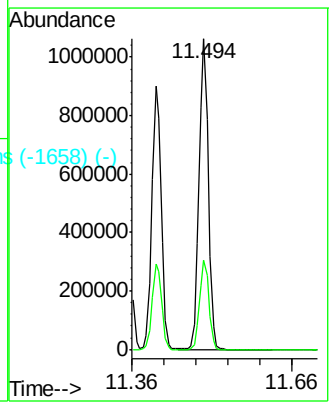




#88
4-Chlorotoluene
Concen: 106.98 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 91 Resp: 1304690

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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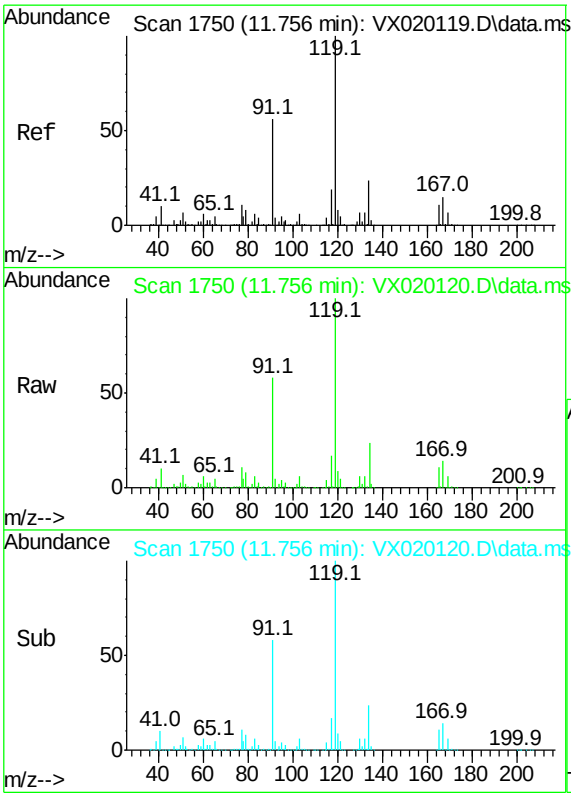
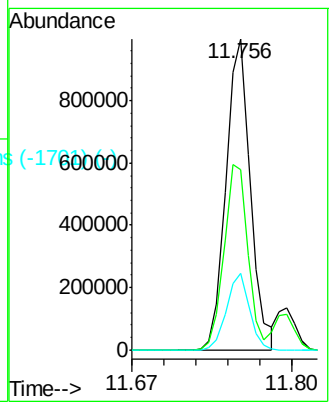
12/21/2020 3:57:58 PM

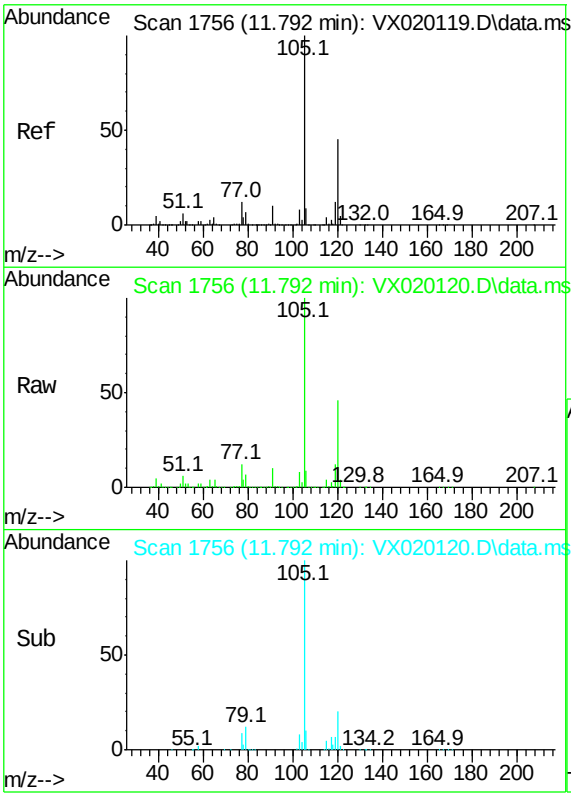


#83
tert-Butylbenzene
Concen: 109.52 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:119 Resp: 1321593

Ion	Ratio	Lower	Upper
119	100		
91	57.9	27.9	83.7
134	22.9	11.3	33.9

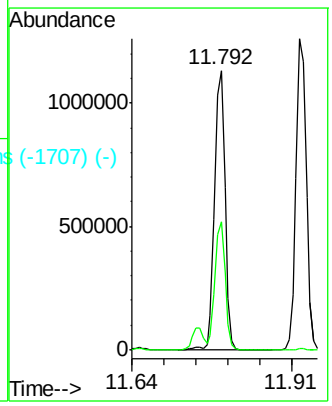




#84
1,2,4-Trimethylbenzene
Concen: 110.45 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:105 Resp: 1385933

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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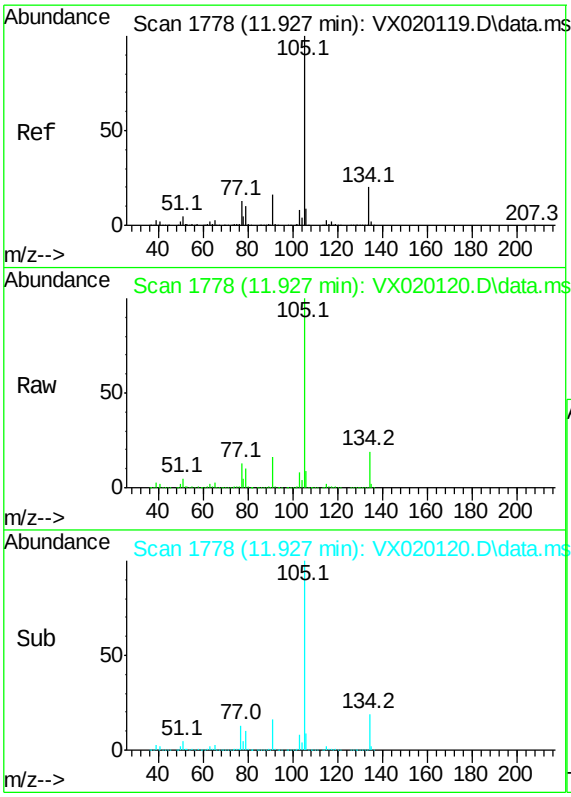
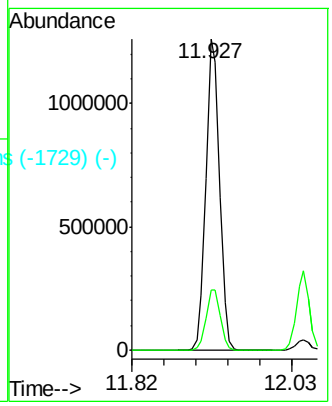
12/21/2020 3:57:58 PM

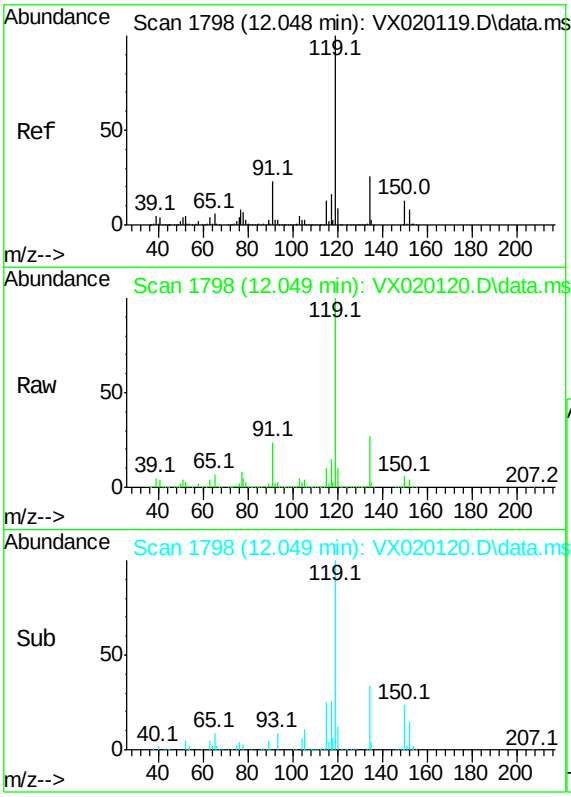


#85
sec-Butylbenzene
Concen: 113.15 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:105 Resp: 1551454

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.0	29.8

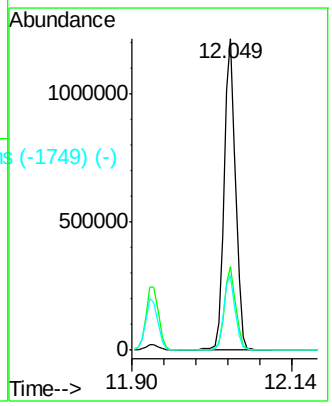




#86
p-Isopropyltoluene
Concen: 113.28 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:119 Resp: 1430859

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.9	38.7
91	23.8	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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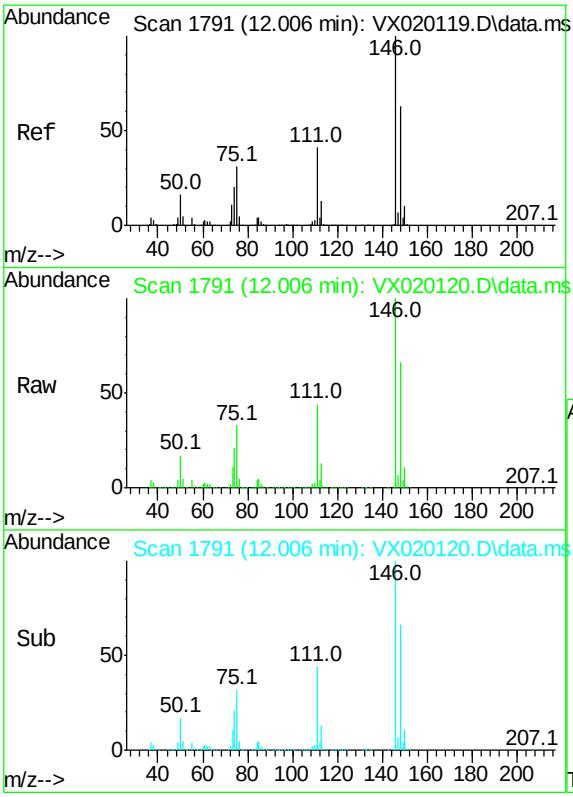
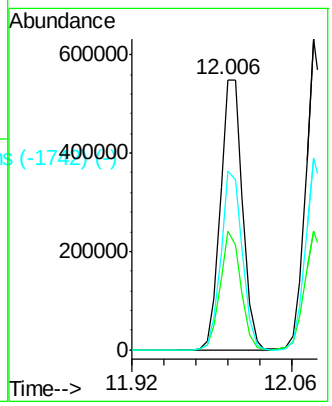
12/21/2020 3:57:58 PM

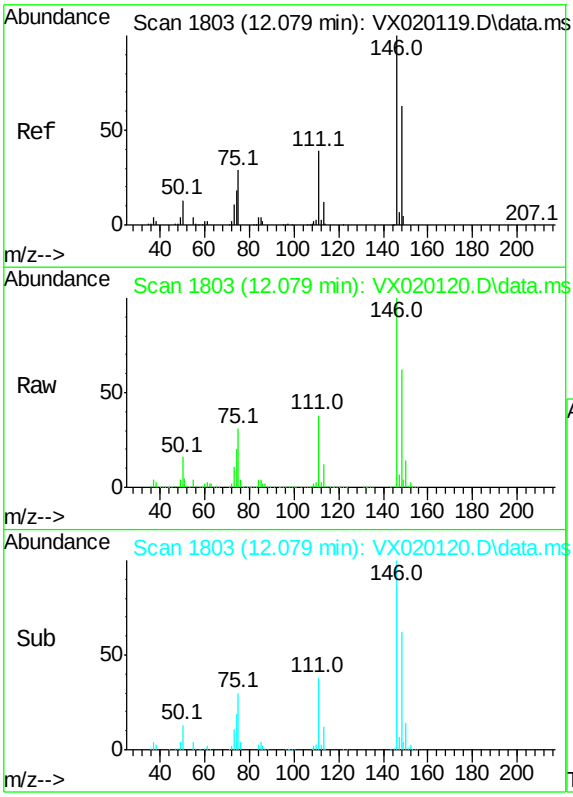


#87
1,3-Dichlorobenzene
Concen: 104.36 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:146 Resp: 722163

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.2	60.5
148	64.1	31.9	95.7

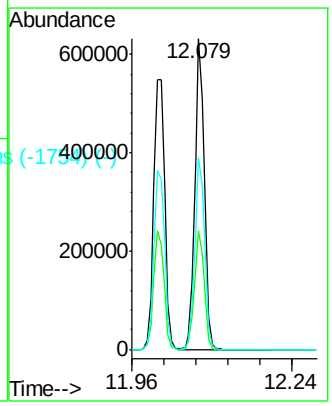




#88
1,4-Dichlorobenzene
Concen: 104.21 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:146 Resp: 735579

Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.6	58.8
148	63.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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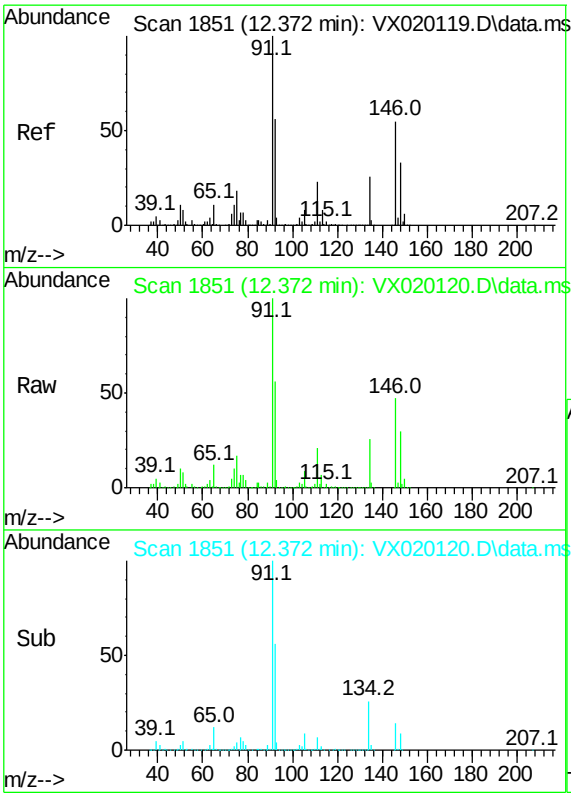
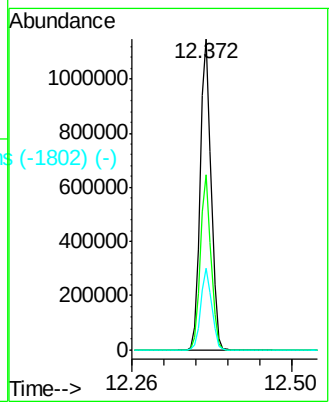
12/21/2020 3:57:58 PM

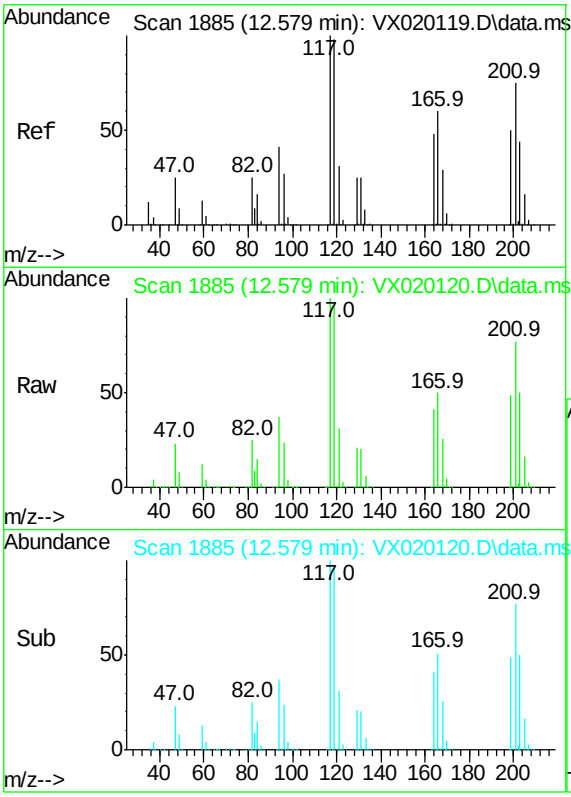


#89
n-Butylbenzene
Concen: 117.31 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 91 Resp: 1305739

Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.4	82.0
134	26.0	13.2	39.5

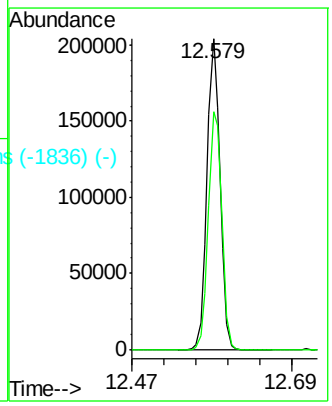




#90
Hexachloroethane
Concen: 116.42 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:117 Resp: 253658

Ion	Ratio	Lower	Upper
117	100		
201	79.1	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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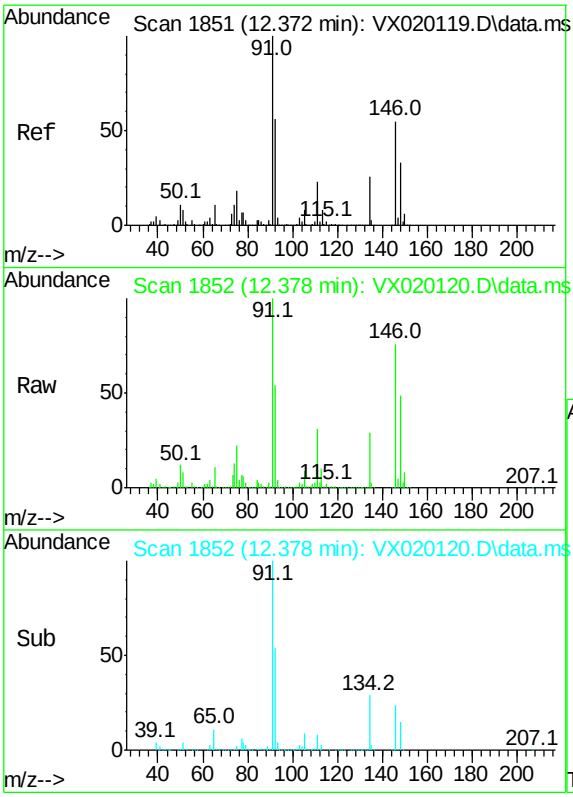
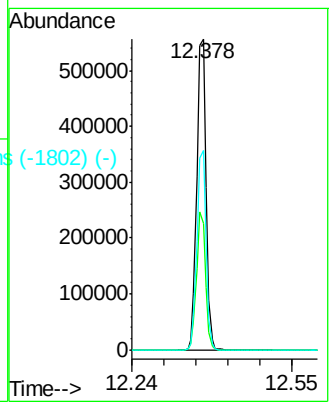
12/21/2020 3:57:58 PM

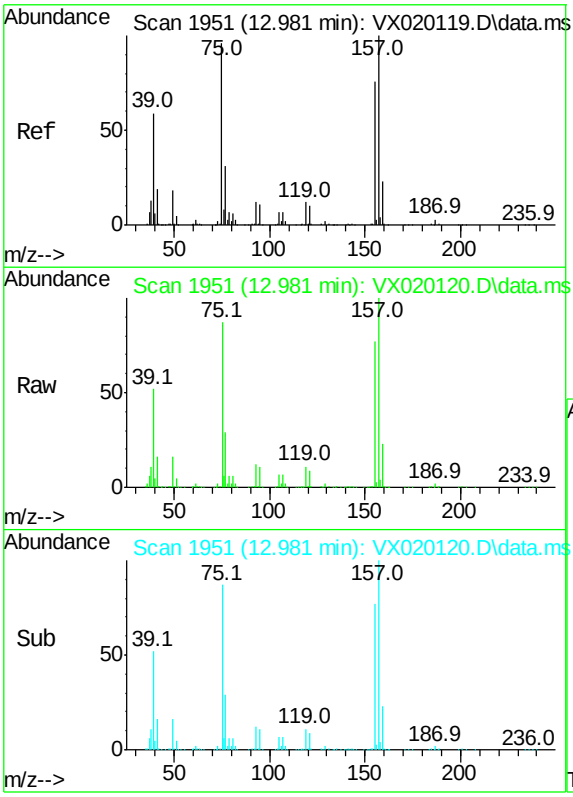


#91
1,2-Dichlorobenzene
Concen: 104.68 ug/l
RT: 12.378 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:146 Resp: 707147

Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.8	62.2
148	63.6	31.9	95.5

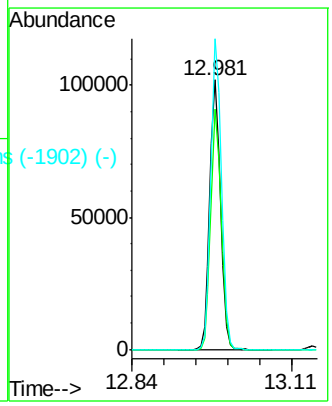




#92
1,2-Dibromo-3-Chloropropane
Concen: 109.66 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion: 75 Resp: 123871

Ion	Ratio	Lower	Upper
75	100		
155	87.0	45.3	135.9
157	113.3	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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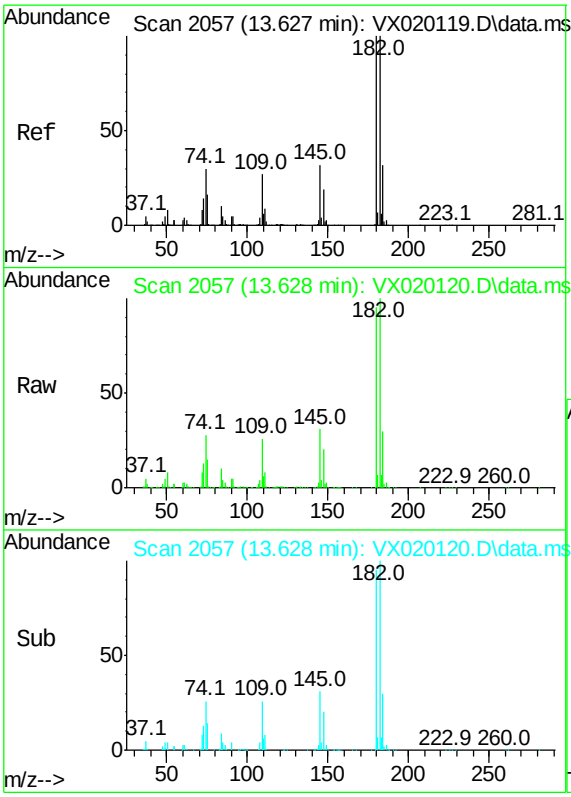
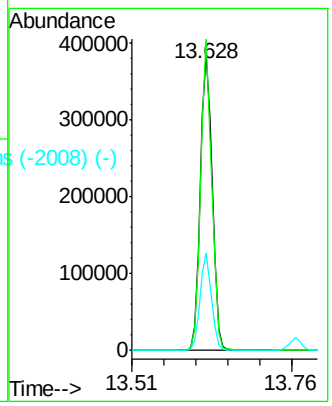
12/21/2020 3:57:58 PM

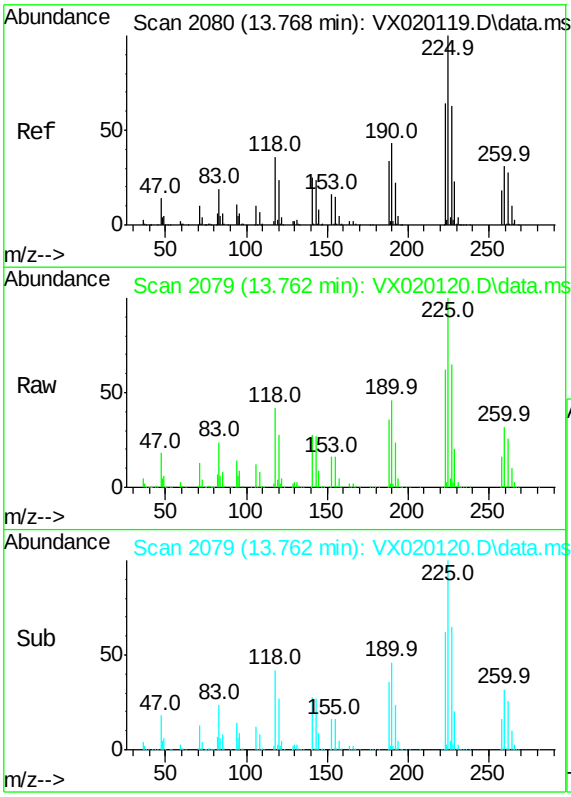


#93
1,2,4-Trichlorobenzene
Concen: 109.10 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:180 Resp: 476693

Ion	Ratio	Lower	Upper
180	100		
182	97.7	47.7	143.1
145	31.2	15.0	45.0

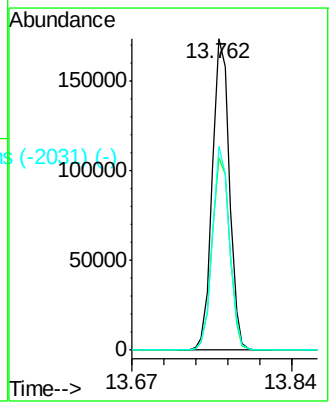




#94
Hexachlorobutadiene
Concen: 110.22 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:225 Resp: 210021

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.1	93.2
227	64.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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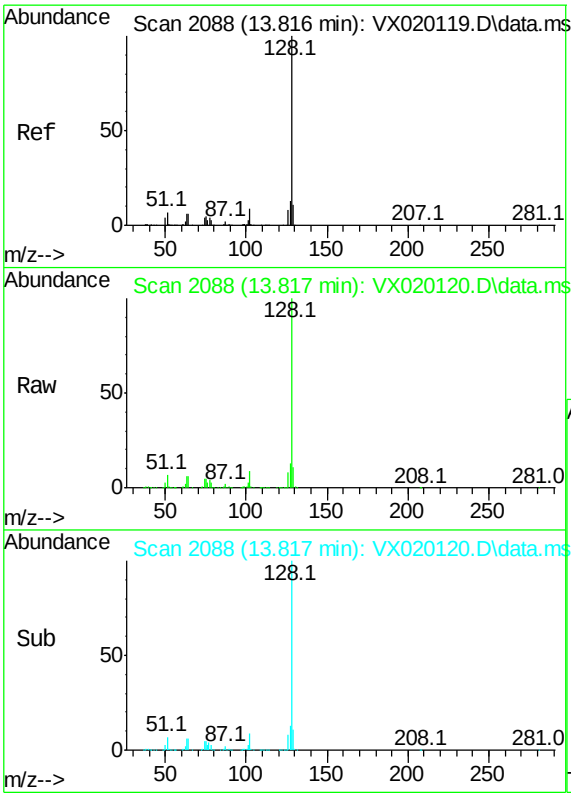
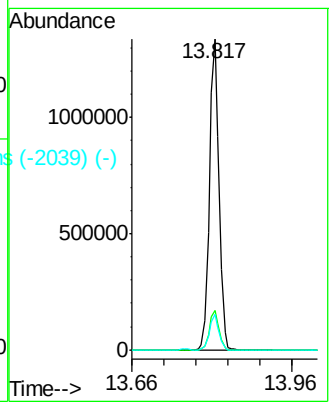
12/21/2020 3:57:58 PM

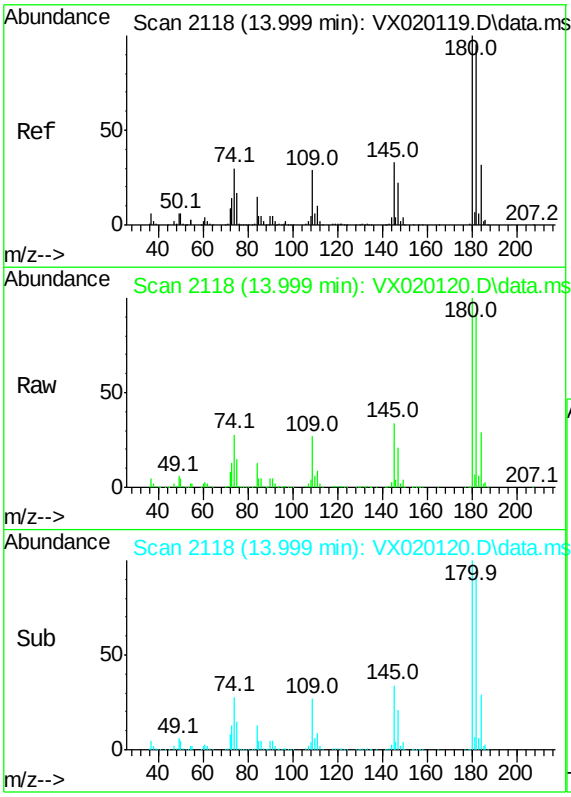


#95
Naphthalene
Concen: 114.05 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:128 Resp: 1629714

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.9	8.8	13.2

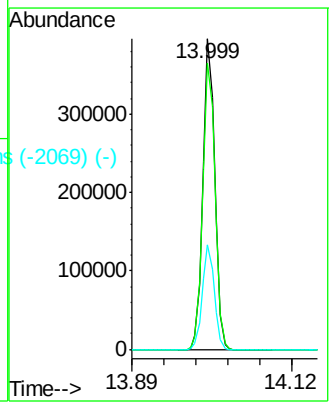




#96
1,2,3-Trichlorobenzene
Concen: 109.05 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020120.D
Acq: 18 Dec 2020 12:20

Tgt Ion:180 Resp: 466578

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.6	142.9
145	33.8	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020121.D
Acq On : 18 Dec 2020 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 18 13:04:12 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC150

Manual Integrations APPROVED
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12/21/2020 3:57:59 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	263004	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	431493	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	406146	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	214244	50.00	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	530313	150.50	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 301.00%#			
35) Dibromofluoromethane	5.464	113	434811	155.30	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 310.60%#			
50) Toluene-d8	8.695	98	1674351	157.33	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 314.66%#			
62) 4-Bromofluorobenzene	11.122	95	688214	169.75	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 339.50%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	434562	179.09	ug/l	99
3) Chloromethane	1.313	50	472318	161.91	ug/l	100
4) Vinyl Chloride	1.392	62	526160	173.37	ug/l	100
5) Bromomethane	1.617	94	149675	148.45	ug/l	97
6) Chloroethane	1.691	64	309354	166.67	ug/l	100
7) Trichlorofluoromethane	1.904	101	682750	164.03	ug/l	98
8) Diethyl Ether	2.166	74	282188	154.08	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.361	101	387863	163.14	ug/l	99
10) Methyl Iodide	2.489	142	549331	157.31	ug/l	100
11) Tert butyl alcohol	3.038	59	553128	712.09	ug/l	99
12) 1,1-Dichloroethene	2.349	96	395114	163.41	ug/l	94
13) Acrolein	2.276	56	371178	908.80	ug/l	99
14) Allyl chloride	2.703	41	702392	167.37	ug/l	97
15) Acrylonitrile	3.117	53	1289258	792.74	ug/l	100
16) Acetone	2.422	43	1012572	750.01	ug/l	100
17) Carbon Disulfide	2.544	76	1180174	168.67	ug/l	99
18) Methyl Acetate	2.745	43	503191	153.86	ug/l	99
19) Methyl tert-butyl Ether	3.166	73	1454646	159.64	ug/l	99
20) Methylene Chloride	2.831	84	484586	140.03	ug/l	97
21) trans-1,2-Dichloroethene	3.135	96	461111	160.74	ug/l	99
22) Diisopropyl ether	3.824	45	1404865	163.73	ug/l	93
23) Vinyl Acetate	3.782	43	6153466	837.40	ug/l	100
24) 1,1-Dichloroethane	3.666	63	821863	160.91	ug/l	100
25) 2-Butanone	4.635	43	1651314	795.04	ug/l	100
26) 2,2-Dichloropropane	4.544	77	700607	161.99	ug/l	99
27) cis-1,2-Dichloroethene	4.562	96	530679	157.03	ug/l	100
28) Bromochloromethane	4.977	49	375299	155.84	ug/l	97
29) Tetrahydrofuran	5.086	42	1064376	796.10	ug/l	98
30) Chloroform	5.172	83	829752	157.78	ug/l	99
31) Cyclohexane	5.544	56	751075	174.31	ug/l	98
32) 1,1,1-Trichloroethane	5.458	97	728333	164.19	ug/l	100
36) 1,1-Dichloropropene	5.763	75	639318	164.12	ug/l	99
37) Ethyl Acetate	4.794	43	649123	160.01	ug/l	99
38) Carbon Tetrachloride	5.751	117	629507	166.05	ug/l	98
39) Methylcyclohexane	7.440	83	784675	173.84	ug/l	99
40) Benzene	6.110	78	1926146	158.97	ug/l	100
41) Methacrylonitrile	5.001	41	356024	160.05	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020121.D
Acq On : 18 Dec 2020 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:59 PM

Quant Time: Dec 18 13:04:12 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	6.159	62	650974	156.24	ug/l		100
43) Isopropyl Acetate	6.409	43	1069410	162.98	ug/l		99
44) Trichloroethene	7.183	130	500532	159.31	ug/l		97
45) 1,2-Dichloropropane	7.488	63	490020	160.69	ug/l		98
46) Dibromomethane	7.635	93	328451	159.26	ug/l		99
47) Bromodichloromethane	7.872	83	669855	164.61	ug/l		100
48) Methyl methacrylate	7.744	41	535764	165.87	ug/l		98
49) 1,4-Dioxane	7.714	88	247019	3188.51	ug/l		99
51) 4-Methyl-2-Pentanone	8.622	43	3318892	826.06	ug/l		99
52) Toluene	8.762	92	1212043	160.60	ug/l		98
53) t-1,3-Dichloropropene	9.018	75	774129	171.73	ug/l		99
54) cis-1,3-Dichloropropene	8.415	75	825792	168.14	ug/l		98
55) 1,1,2-Trichloroethane	9.195	97	483007	157.13	ug/l		97
56) Ethyl methacrylate	9.159	69	811647	174.82	ug/l		99
57) 1,3-Dichloropropane	9.354	76	830025	157.75	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.293	63	1940278	789.94	ug/l		99
59) 2-Hexanone	9.476	43	2609872	842.11	ug/l		100
60) Dibromochloromethane	9.567	129	529335	170.33	ug/l		100
61) 1,2-Dibromoethane	9.653	107	516416	158.20	ug/l		100
64) Tetrachloroethene	9.317	164	433458	159.37	ug/l		94
65) Chlorobenzene	10.122	112	1281018	157.31	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.201	131	484459	165.24	ug/l		99
67) Ethyl Benzene	10.232	91	2324461	161.80	ug/l		99
68) m/p-Xylenes	10.341	106	1743154	321.75	ug/l		100
69) o-Xylene	10.683	106	850649	162.72	ug/l		99
70) Styrene	10.695	104	1500242	169.83	ug/l		99
71) Bromoform	10.841	173	429447	187.77	ug/l	#	100
73) Isopropylbenzene	11.000	105	2276306	155.29	ug/l		100
74) N-amyl acetate	10.878	43	1028642	172.48	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.250	83	804369	153.69	ug/l		99
76) 1,2,3-Trichloropropane	11.280	75	732758m	150.39	ug/l		
77) Bromobenzene	11.238	156	583789	154.27	ug/l		99
78) n-propylbenzene	11.341	91	2665159	159.34	ug/l		99
79) 2-Chlorotoluene	11.402	91	1612620	155.14	ug/l		100
80) 1,3,5-Trimethylbenzene	11.488	105	1981934	160.10	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.061	75	299326	177.95	ug/l		95
82) 4-Chlorotoluene	11.494	91	1908375	156.59	ug/l		100
83) tert-Butylbenzene	11.756	119	1943548	161.17	ug/l		98
84) 1,2,4-Trimethylbenzene	11.792	105	2013268	160.56	ug/l		100
85) sec-Butylbenzene	11.927	105	2276967	166.17	ug/l		99
86) p-Isopropyltoluene	12.048	119	2118476	167.84	ug/l		99
87) 1,3-Dichlorobenzene	12.006	146	1060300	153.33	ug/l		98
88) 1,4-Dichlorobenzene	12.079	146	1096444	155.44	ug/l		99
89) n-Butylbenzene	12.372	91	1950719	175.39	ug/l		99
90) Hexachloroethane	12.579	117	382793	175.82	ug/l		98
91) 1,2-Dichlorobenzene	12.378	146	1053297	156.03	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	184917	163.82	ug/l		97
93) 1,2,4-Trichlorobenzene	13.627	180	736909	168.77	ug/l		98
94) Hexachlorobutadiene	13.762	225	306017	160.71	ug/l		96
95) Naphthalene	13.816	128	2424527	169.79	ug/l		100
96) 1,2,3-Trichlorobenzene	13.999	180	722433	168.98	ug/l		100

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

MMDadoda
12/21/2020 3:57:59 PM

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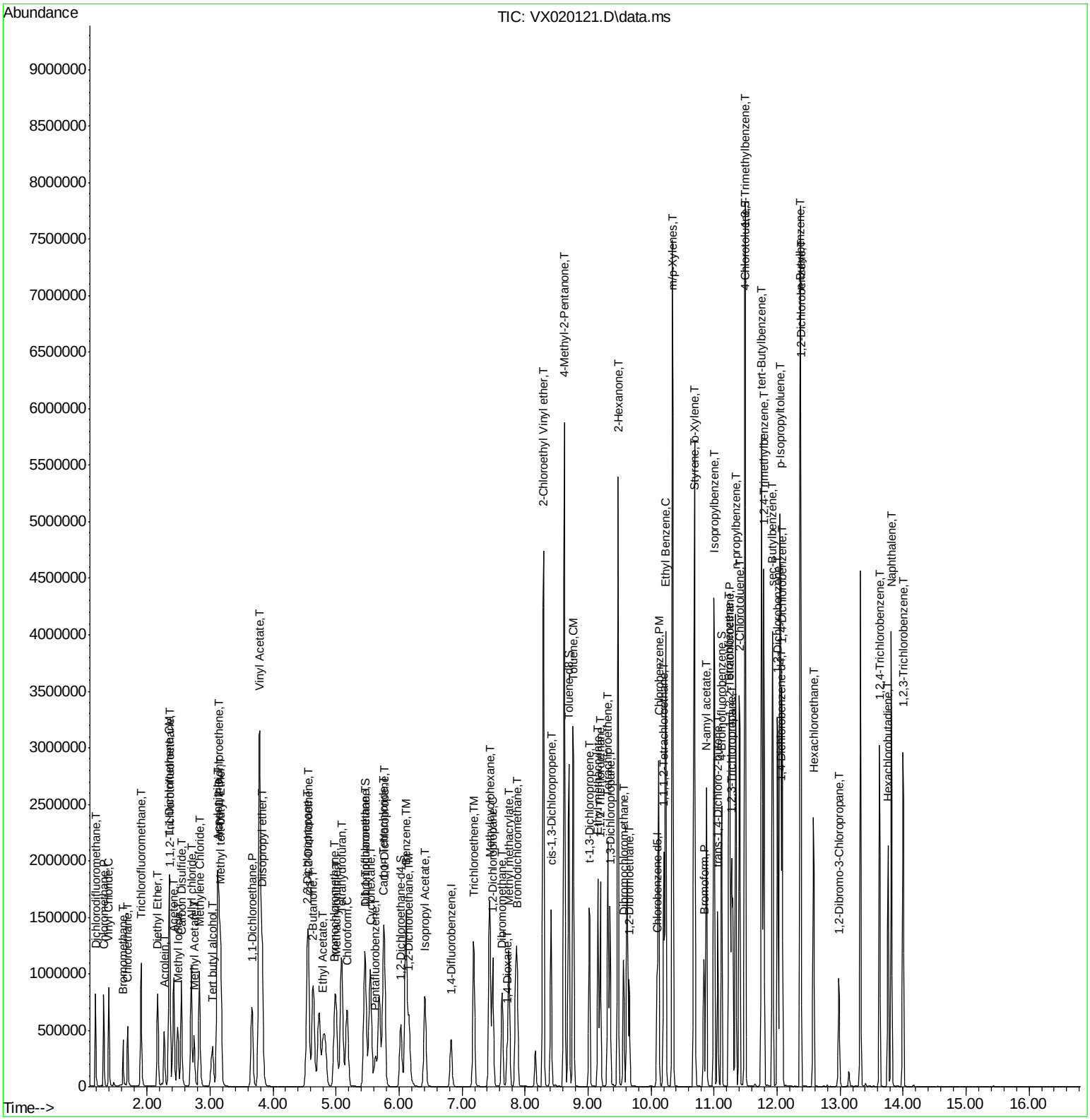
Data File : VX020121.D
Acq On : 18 Dec 2020 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 18 13:04:12 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 12:23:32 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:59 PM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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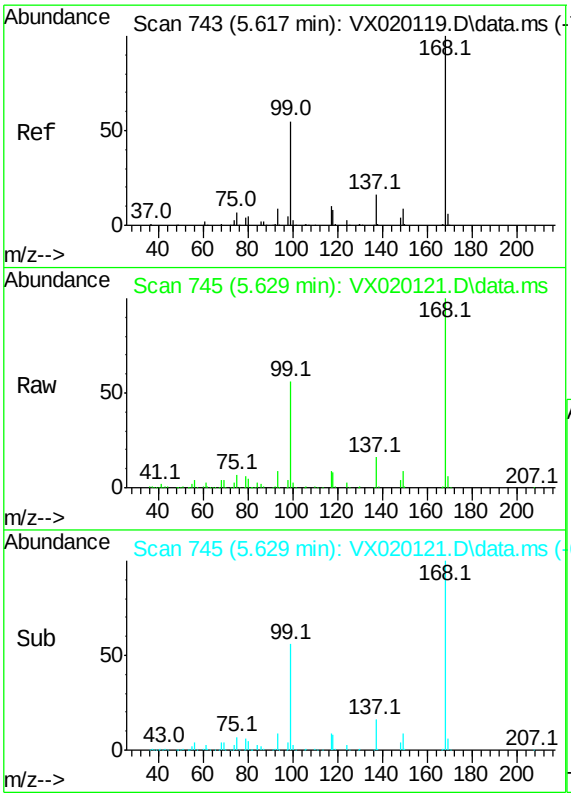
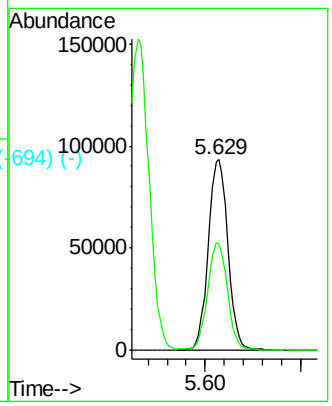
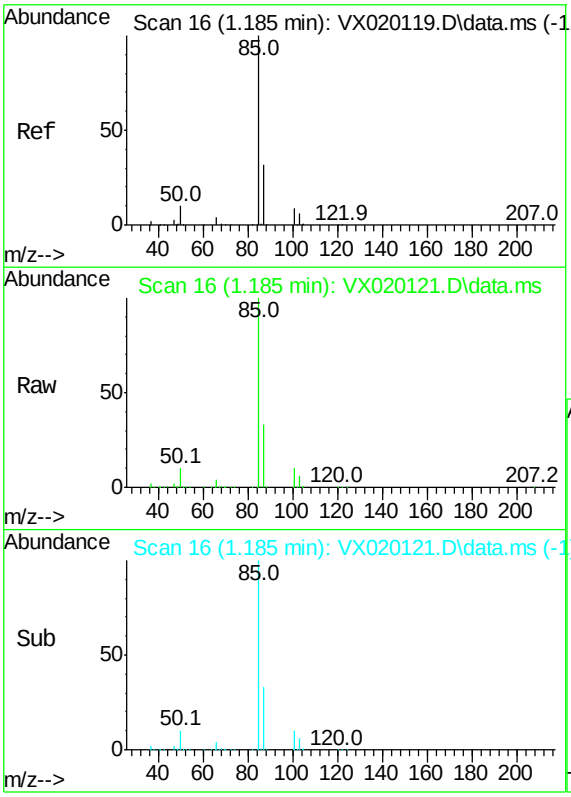


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:168 Resp: 263004

Ion	Ratio	Lower	Upper
168	100		
99	56.0	45.8	68.6

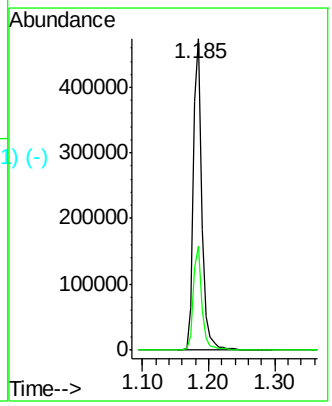




#2
Dichlorodifluoromethane
Concen: 179.09 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

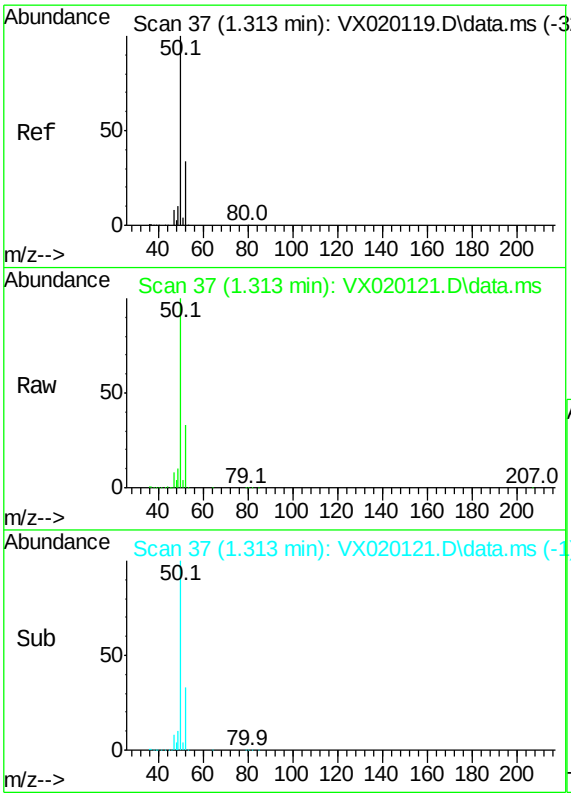
Tgt Ion: 85 Resp: 434562

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

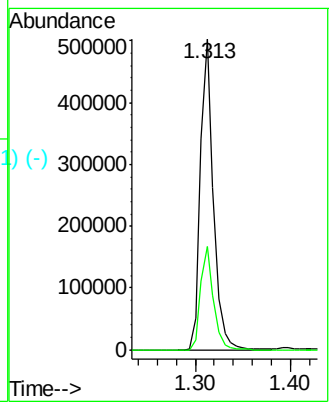
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:59 PM

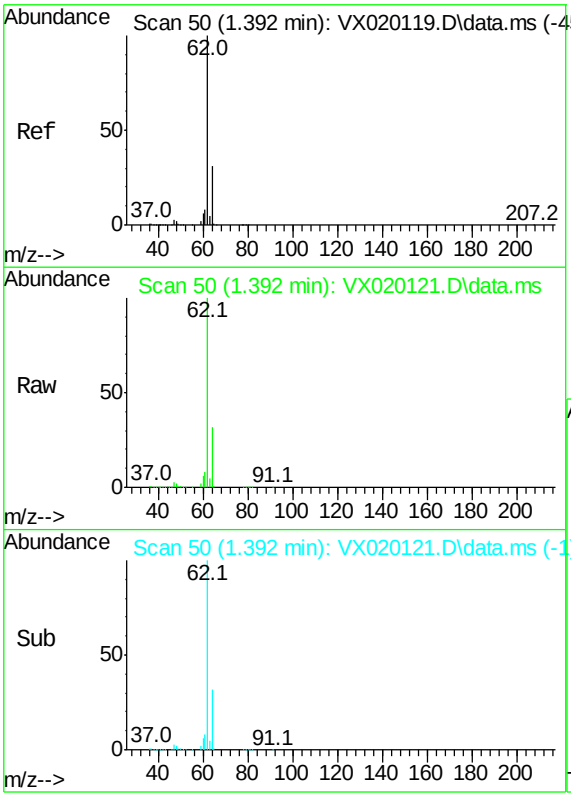


#3
Chloromethane
Concen: 161.91 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 50 Resp: 472318

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.4	39.6

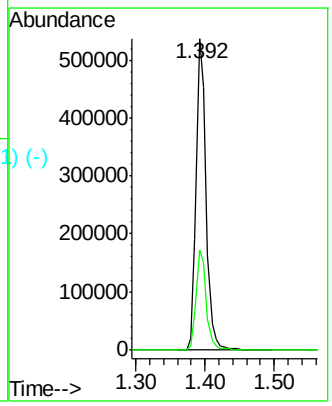




#4
Vinyl Chloride
Concen: 173.37 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 62 Resp: 526160

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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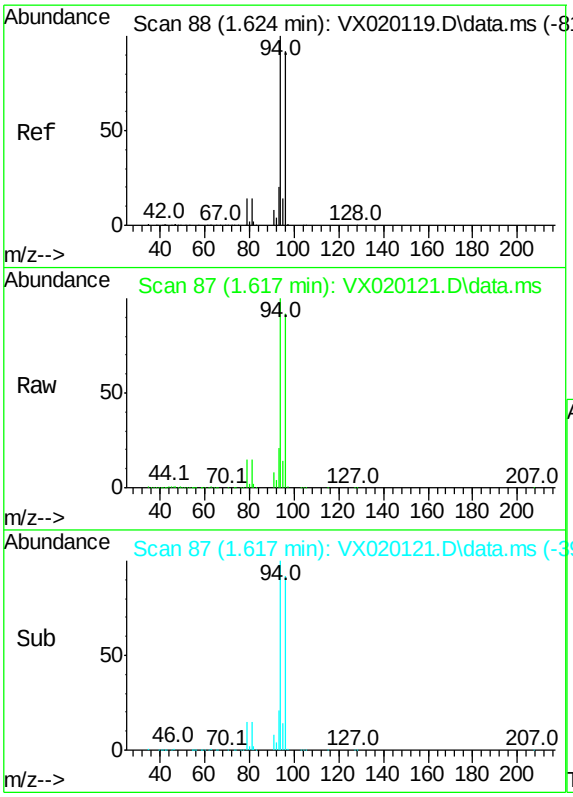
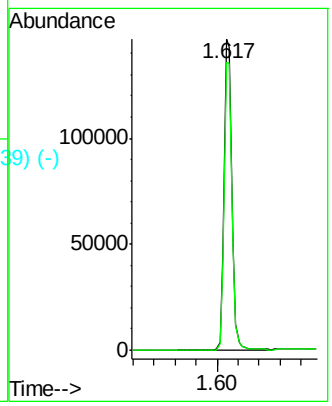
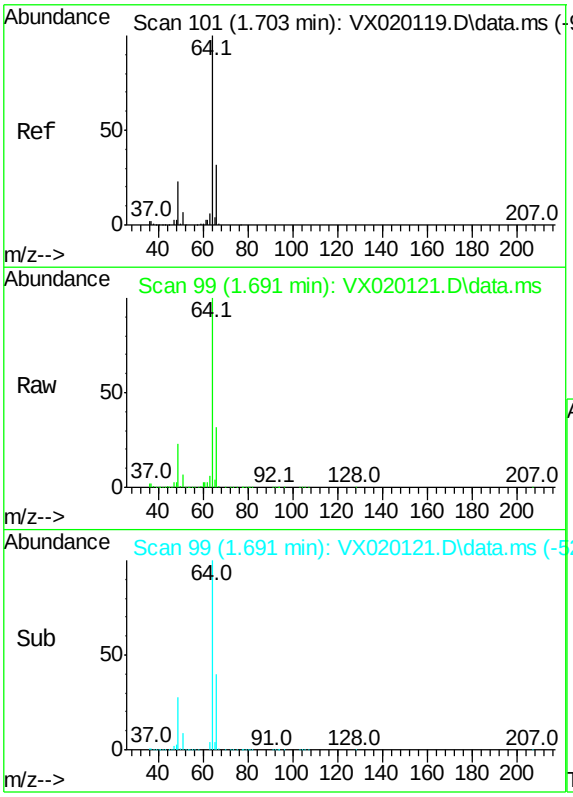


#5
Bromomethane
Concen: 148.45 ug/l
RT: 1.617 min Scan# 87
Delta R.T. -0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 94 Resp: 149675

Ion	Ratio	Lower	Upper
94	100		
96	92.5	76.4	114.6

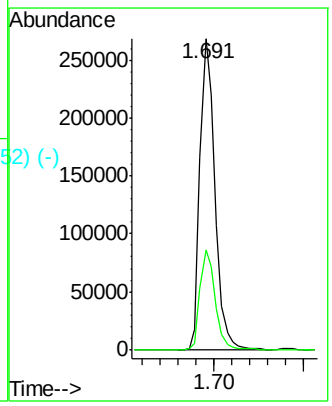




#6
Chloroethane
Concen: 166.67 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.012 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 64 Resp: 309354

Ion	Ratio	Lower	Upper
64	100		
66	31.8	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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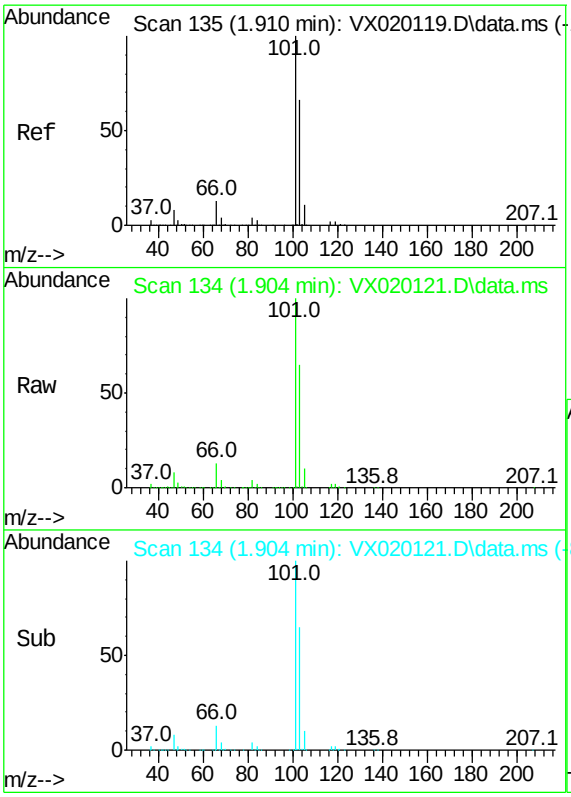
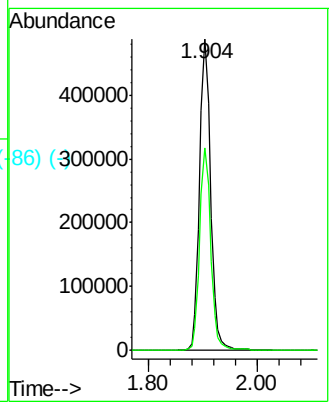
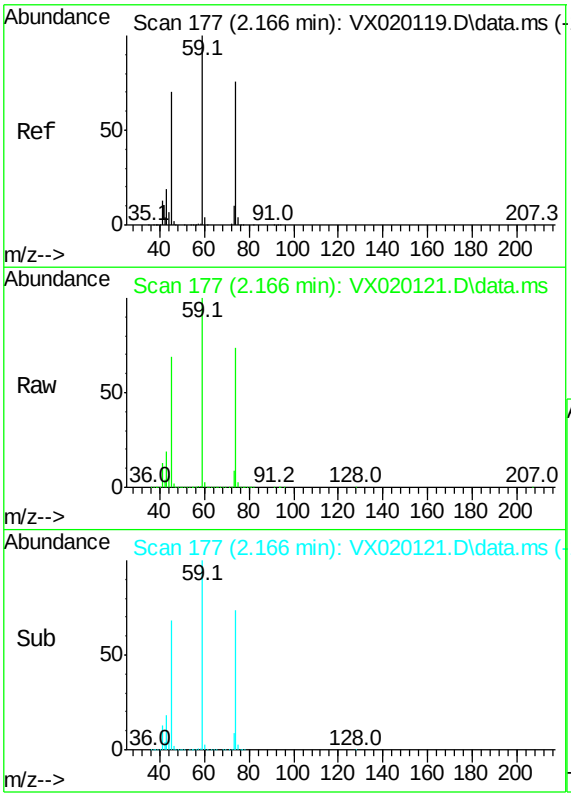


#7
Trichlorofluoromethane
Concen: 164.03 ug/l
RT: 1.904 min Scan# 134
Delta R.T. -0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:101 Resp: 682750

Ion	Ratio	Lower	Upper
101	100		
103	64.9	53.2	79.8

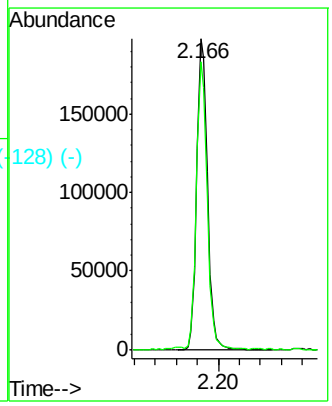




#8
Diethyl Ether
Concen: 154.08 ug/l
RT: 2.166 min Scan# 177
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 74 Resp: 282188

Ion	Ratio	Lower	Upper
74	100		
45	93.6	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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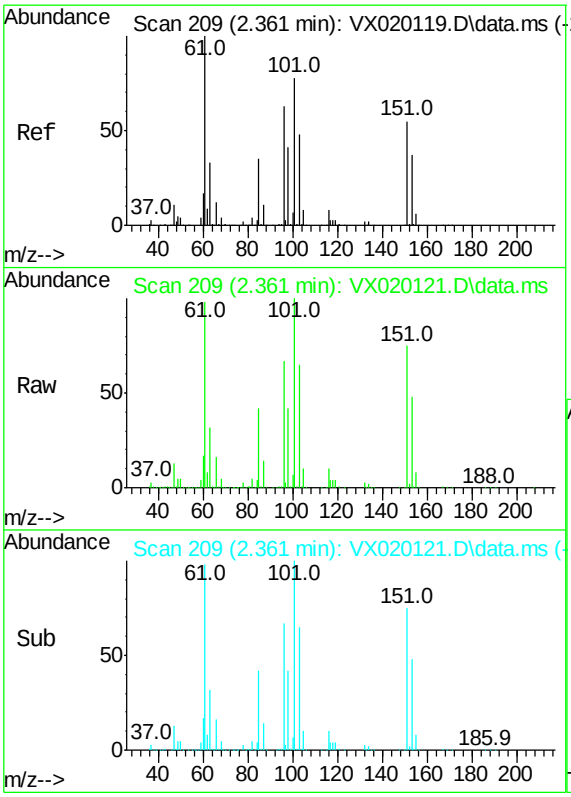
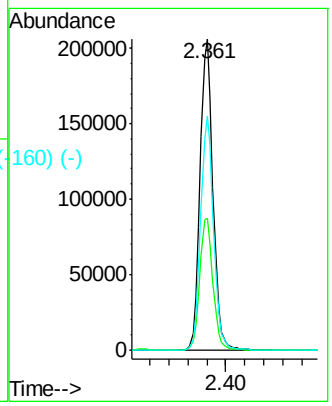
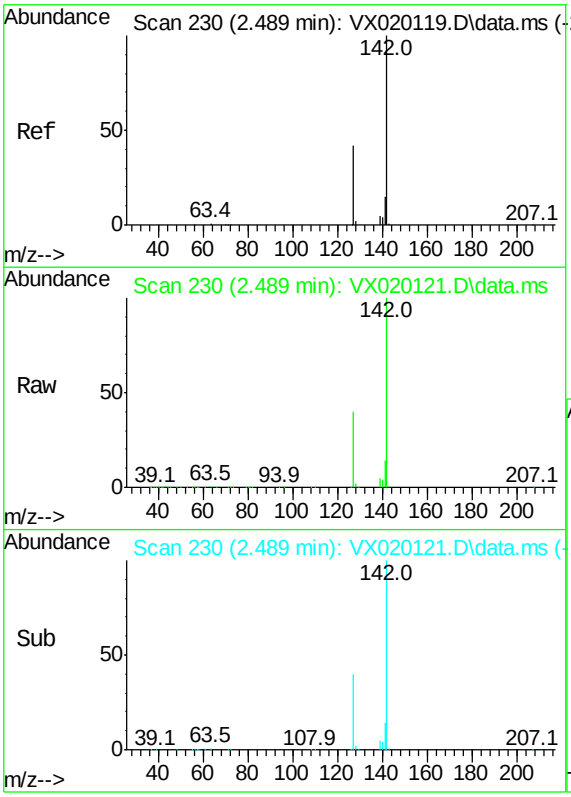


#9
1,1,2-Trichlorotrifluoroethane
Concen: 163.14 ug/l
RT: 2.361 min Scan# 209
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:101 Resp: 387863

Ion	Ratio	Lower	Upper
101	100		
85	43.0	34.9	52.3
151	75.3	61.4	92.2

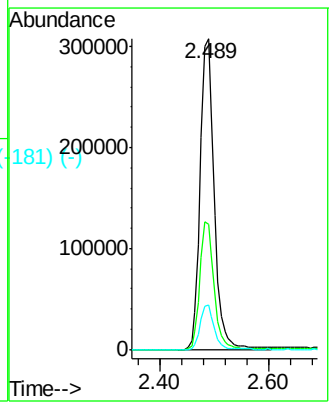




#10
Methyl Iodide
Concen: 157.31 ug/l
RT: 2.489 min Scan# 230
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:142 Resp: 549331

Ion	Ratio	Lower	Upper
142	100		
127	41.3	33.3	49.9
141	14.2	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
MMDadoda
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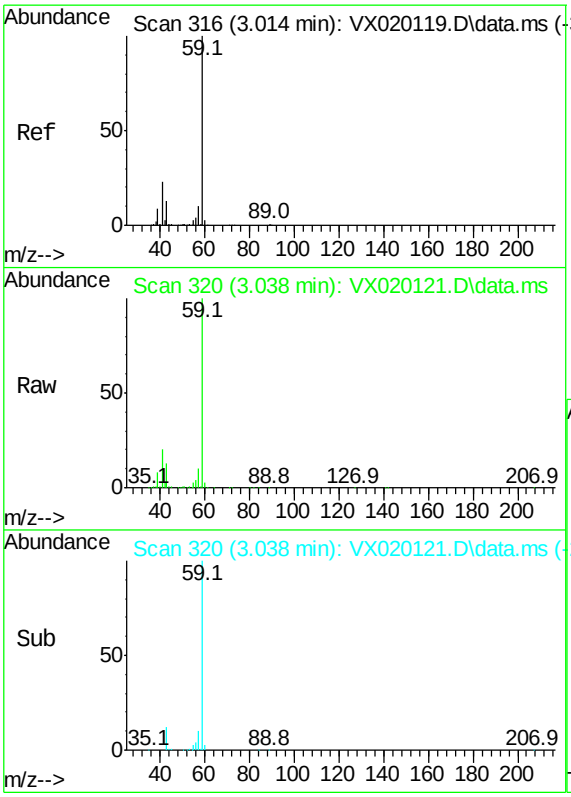
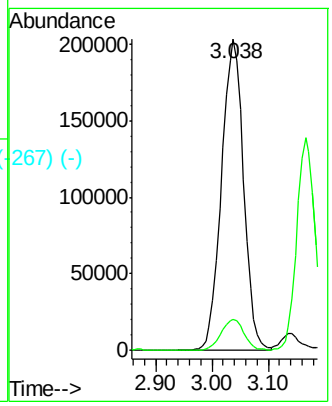
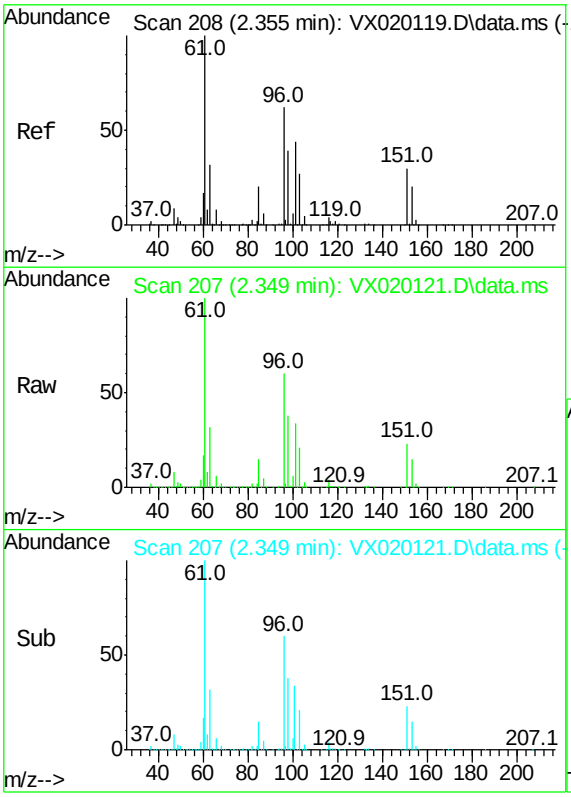


#11
Tert butyl alcohol
Concen: 712.09 ug/l
RT: 3.038 min Scan# 320
Delta R.T. 0.024 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 59 Resp: 553128

Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.8	11.8

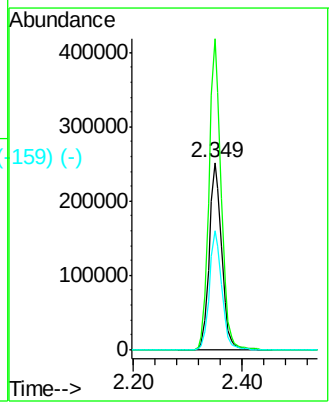




#12
1,1-Dichloroethene
Concen: 163.41 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 96 Resp: 395114

Ion	Ratio	Lower	Upper
96	100		
61	166.0	124.6	187.0
98	63.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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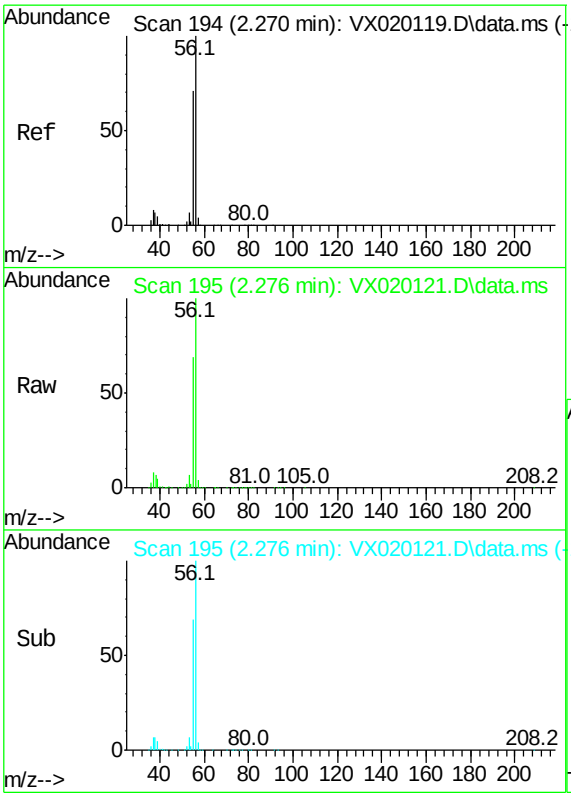
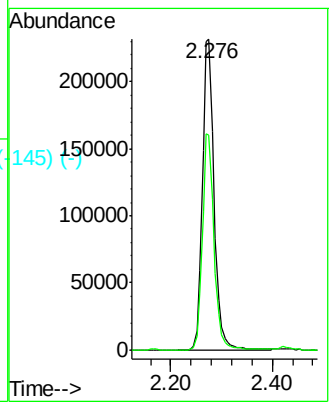
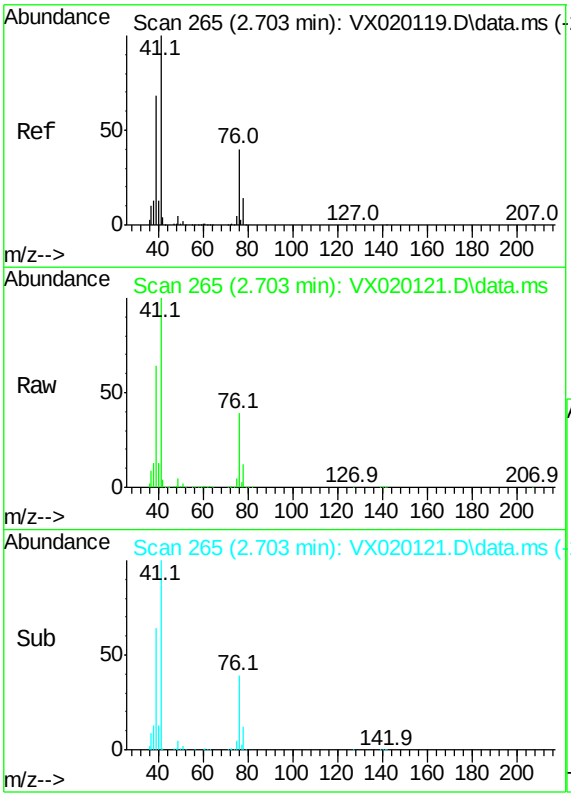


#13
Acrolein
Concen: 908.80 ug/l
RT: 2.276 min Scan# 195
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 56 Resp: 371178

Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.4	84.6

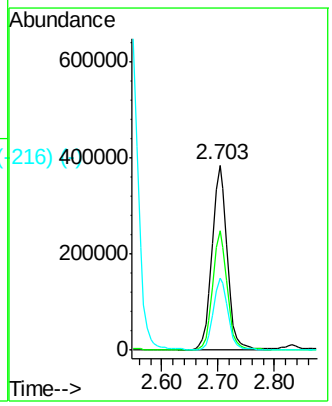




#14
Allyl chloride
Concen: 167.37 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 41 Resp: 702392

Ion	Ratio	Lower	Upper
41	100		
39	61.6	51.6	77.4
76	37.0	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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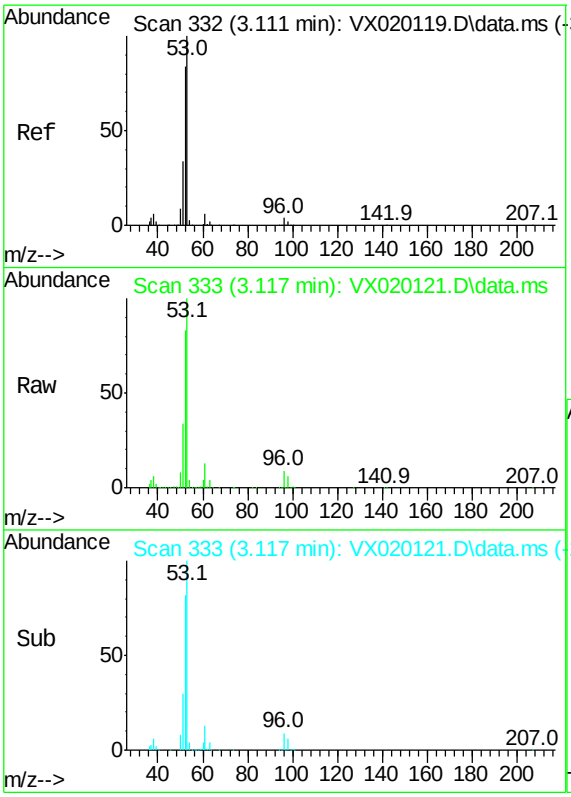
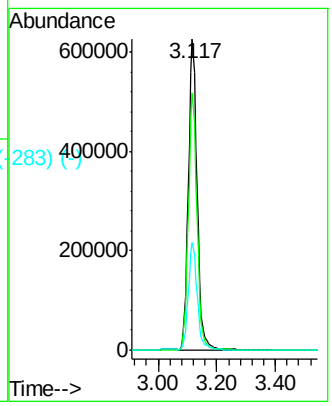
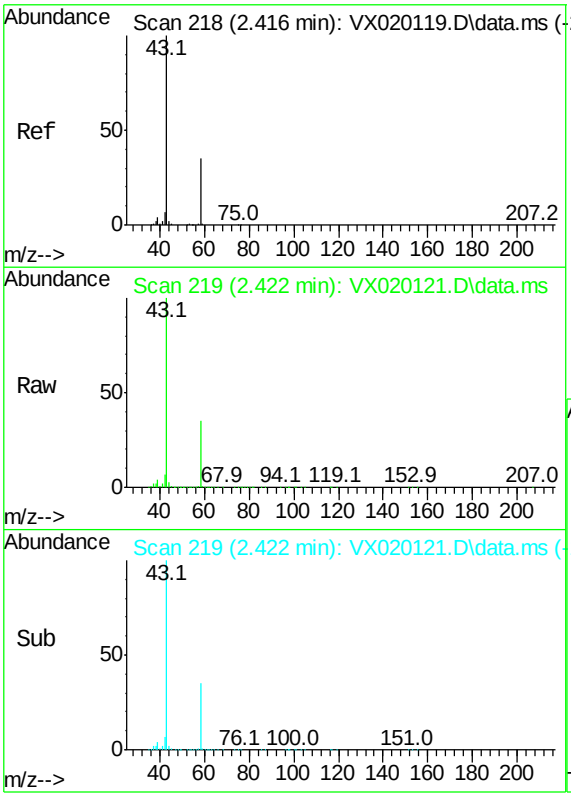


#15
Acrylonitrile
Concen: 792.74 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 53 Resp: 1289258

Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.3	97.9
51	34.8	28.2	42.2

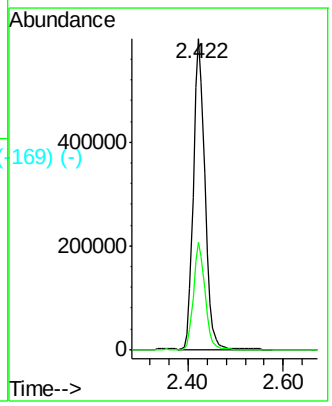




#16
Acetone
Concen: 750.01 ug/l
RT: 2.422 min Scan# 219
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 1012572

Ion	Ratio	Lower	Upper
43	100		
58	34.7	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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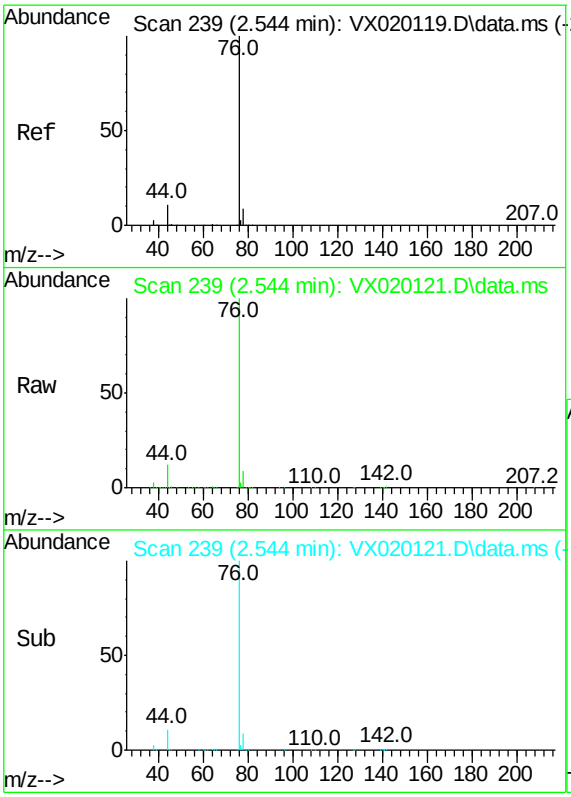
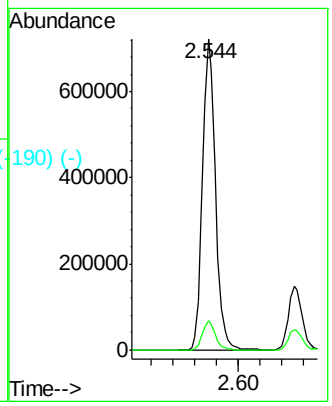
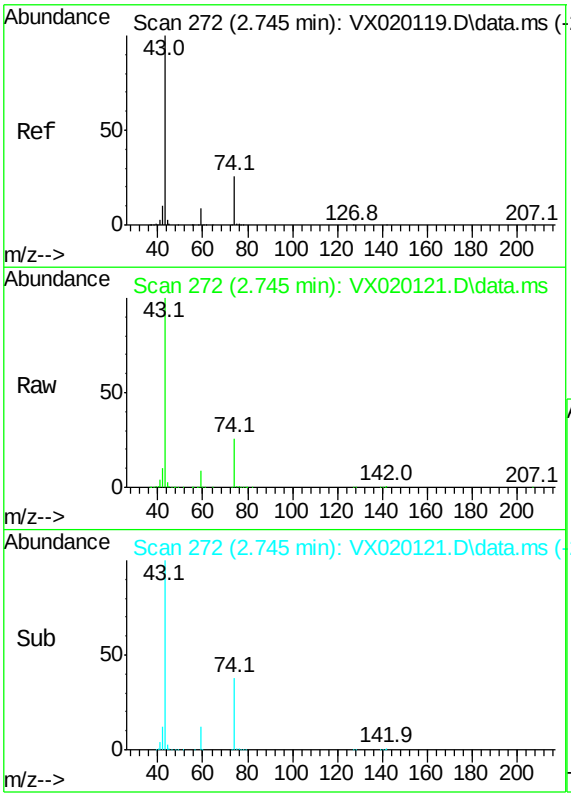


#17
Carbon Disulfide
Concen: 168.67 ug/l
RT: 2.544 min Scan# 239
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 76 Resp: 1180174

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

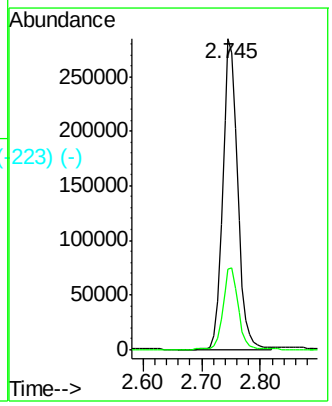




#18
Methyl Acetate
Concen: 153.86 ug/l
RT: 2.745 min Scan# 272
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 503191

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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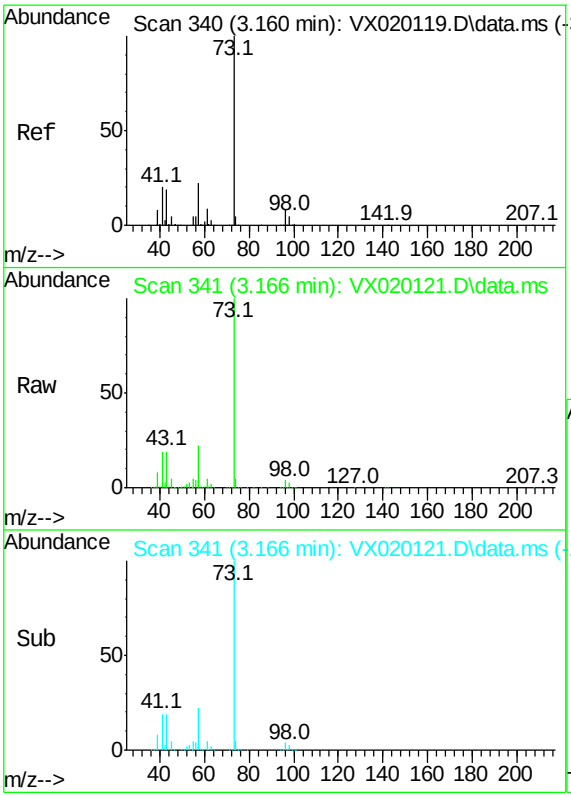
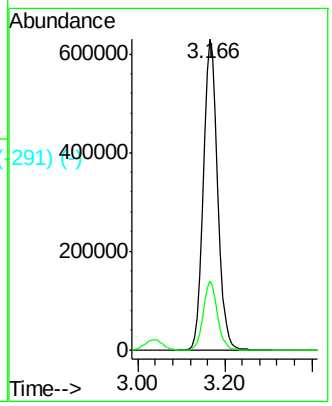
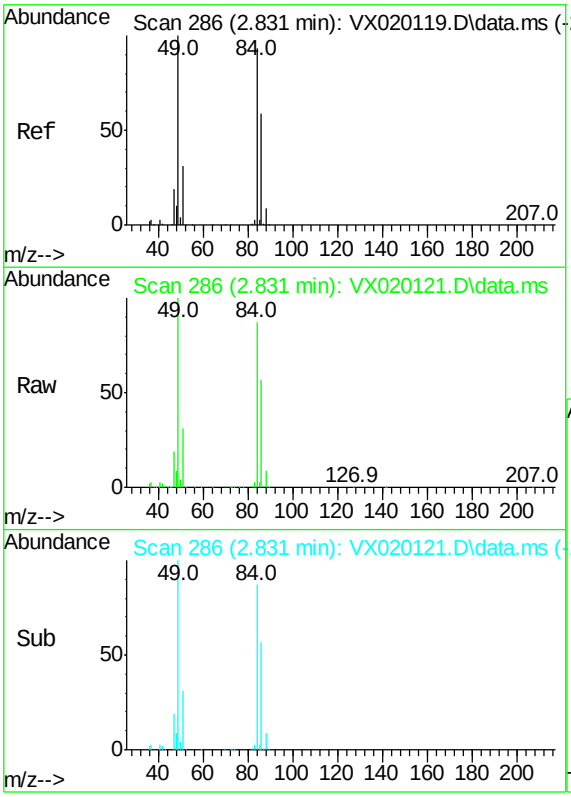


#19
Methyl tert-butyl Ether
Concen: 159.64 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 73 Resp: 1454646

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.1	25.7

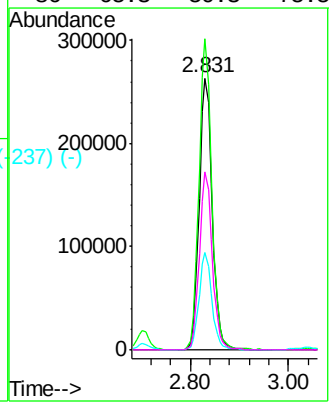




#20
Methylene Chloride
Concen: 140.03 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 84 Resp: 484586

Ion	Ratio	Lower	Upper
84	100		
49	114.6	88.6	132.8
51	35.6	27.0	40.6
86	65.3	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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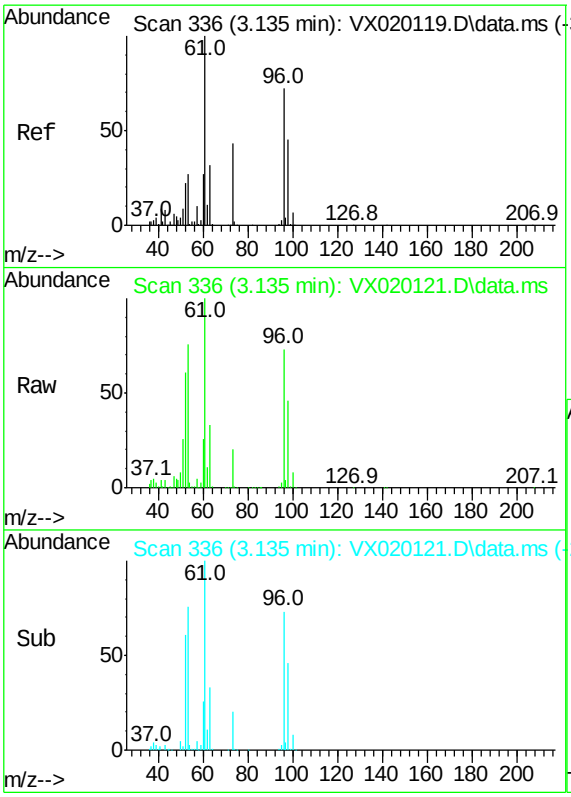
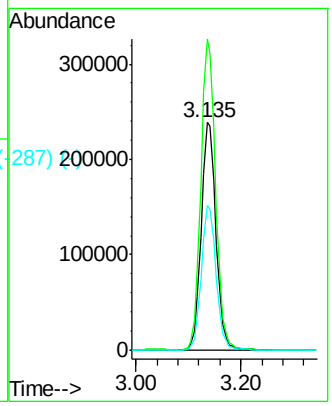
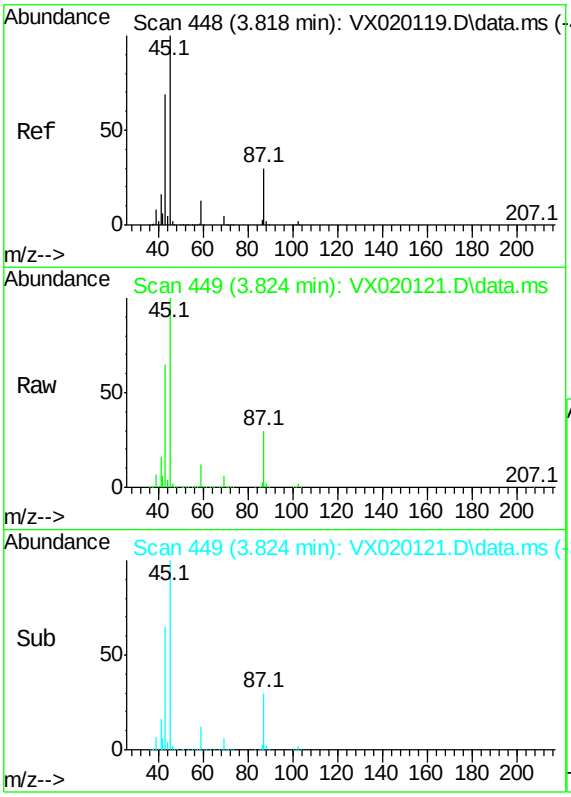


#21 (-)
trans-1,2-Dichloroethene
Concen: 160.74 ug/l
RT: 3.135 min Scan# 336
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 96 Resp: 461111

Ion	Ratio	Lower	Upper
96	100		
61	136.6	107.7	161.5
98	63.5	50.4	75.6

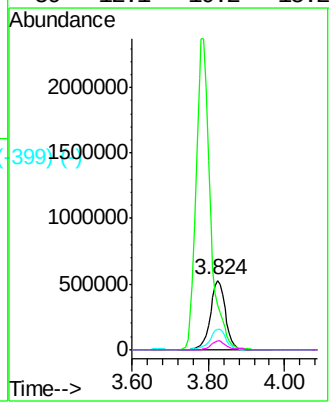




#22 (-)
Diisopropyl ether
Concen: 163.73 ug/l
RT: 3.824 min Scan# 449
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 45 Resp: 1404865

Ion	Ratio	Lower	Upper
45	100		
43	65.2	58.0	87.0
87	29.7	25.4	38.0
59	12.1	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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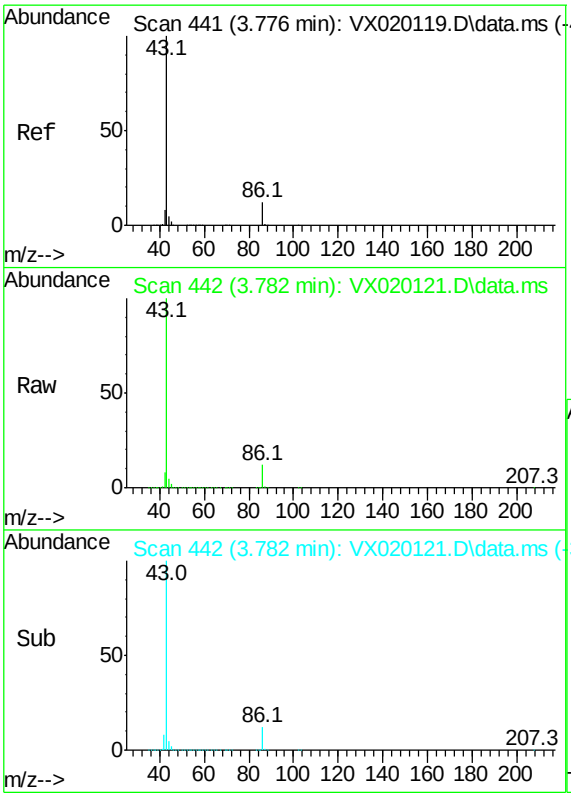
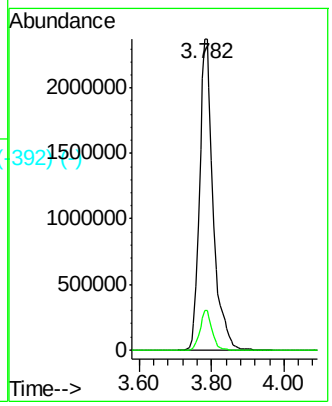
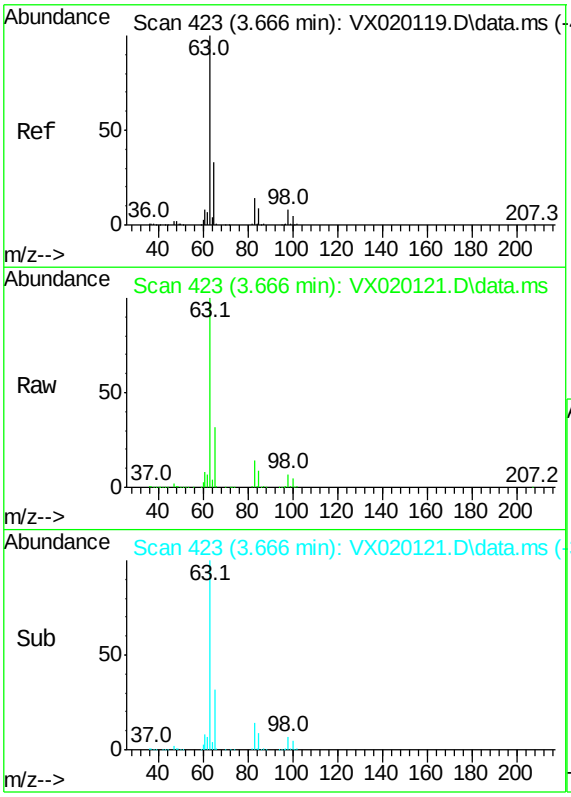


#23
Vinyl Acetate
Concen: 837.40 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 6153466

Ion	Ratio	Lower	Upper
43	100		
86	12.5	9.9	14.9

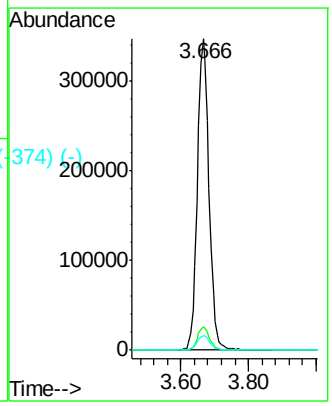




#24
1,1-Dichloroethane
Concen: 160.91 ug/l
RT: 3.666 min Scan# 423
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 63 Resp: 821863

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	4.6	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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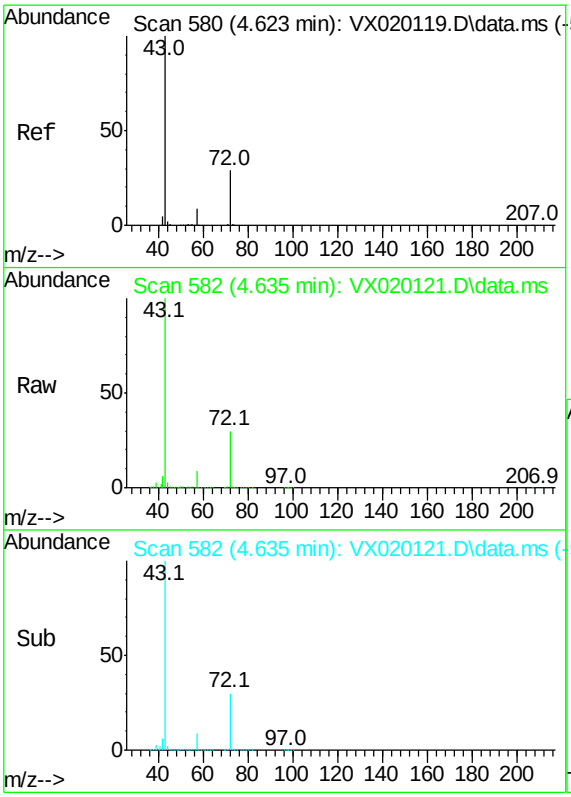
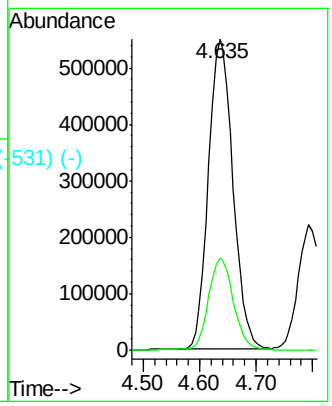
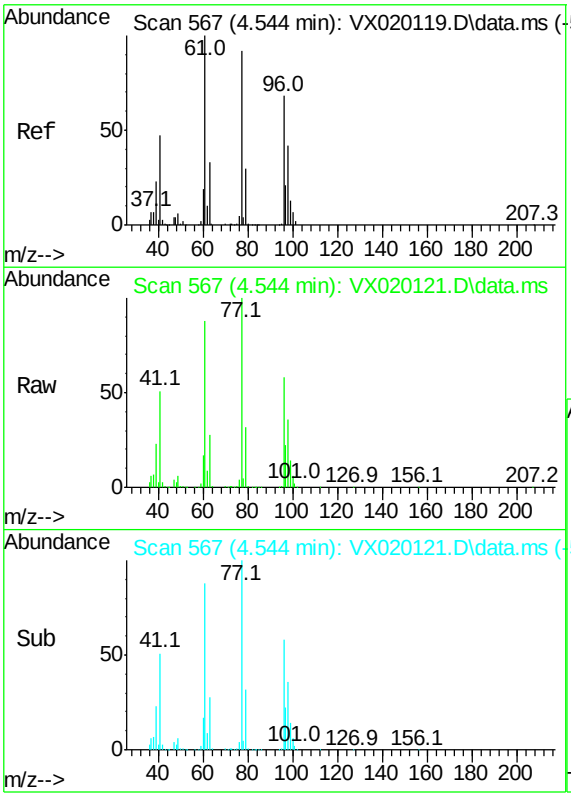


#25
2-Butanone
Concen: 795.04 ug/l
RT: 4.635 min Scan# 582
Delta R.T. 0.012 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 1651314

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.7	35.5

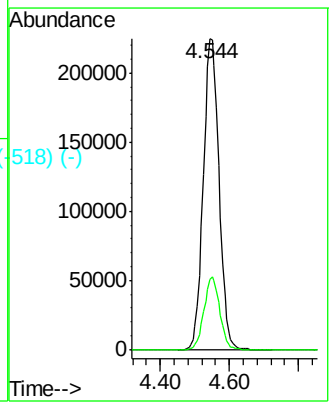




#26
2,2-Dichloropropane
Concen: 161.99 ug/l
RT: 4.544 min Scan# 567
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 77 Resp: 700607

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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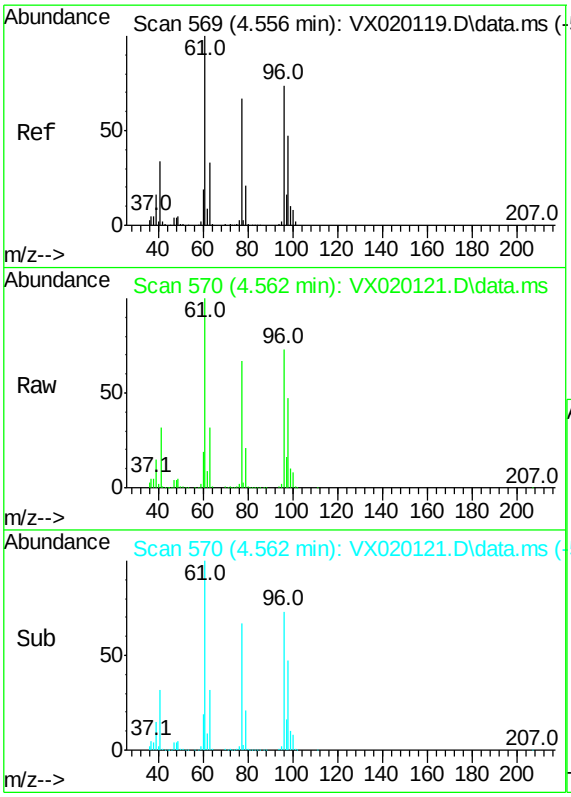
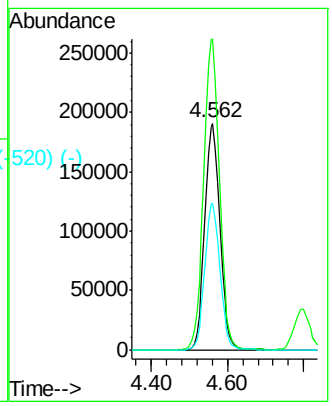
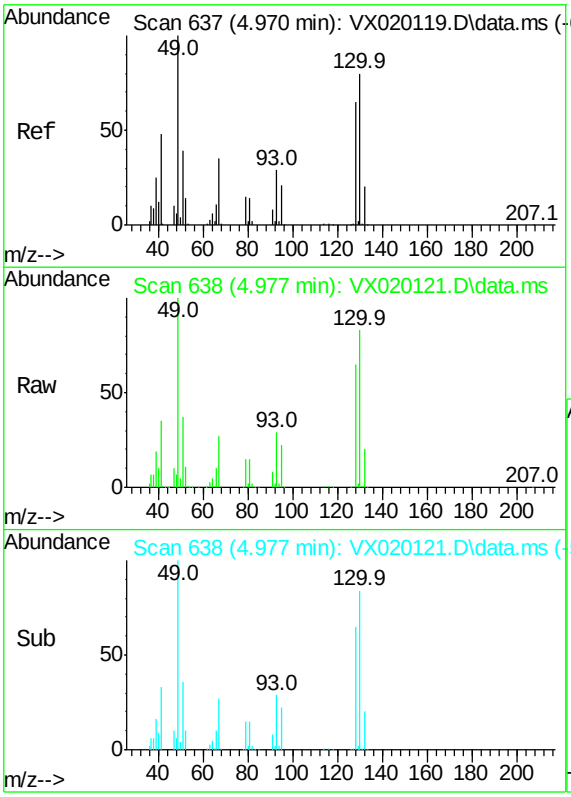


#27 (-)
cis-1,2-Dichloroethene
Concen: 157.03 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 96 Resp: 530679

Ion	Ratio	Lower	Upper
96	100		
61	142.7	0.0	285.6
98	65.0	0.0	129.6

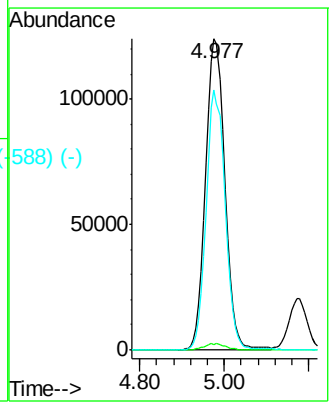




#28 (-)
Bromochloromethane
Concen: 155.84 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 49 Resp: 375299

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	82.1	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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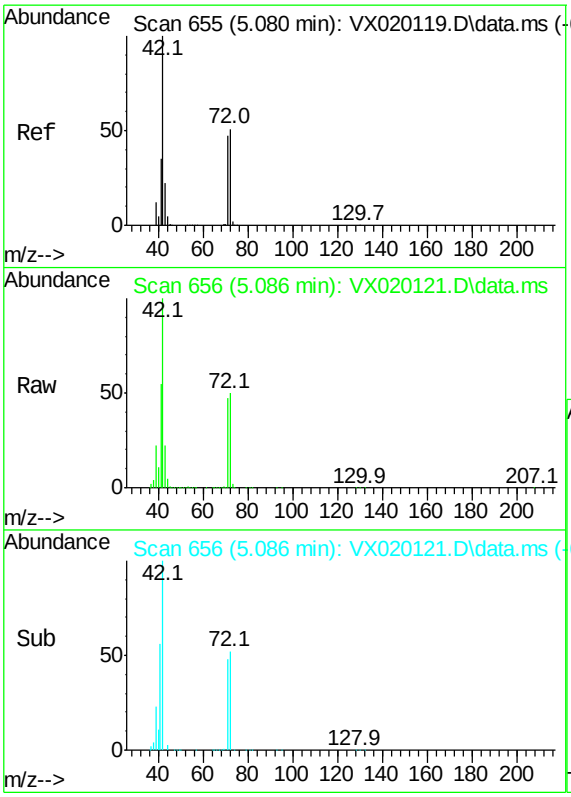
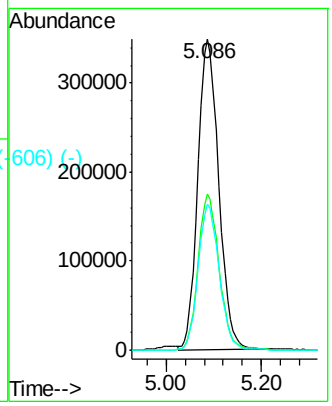
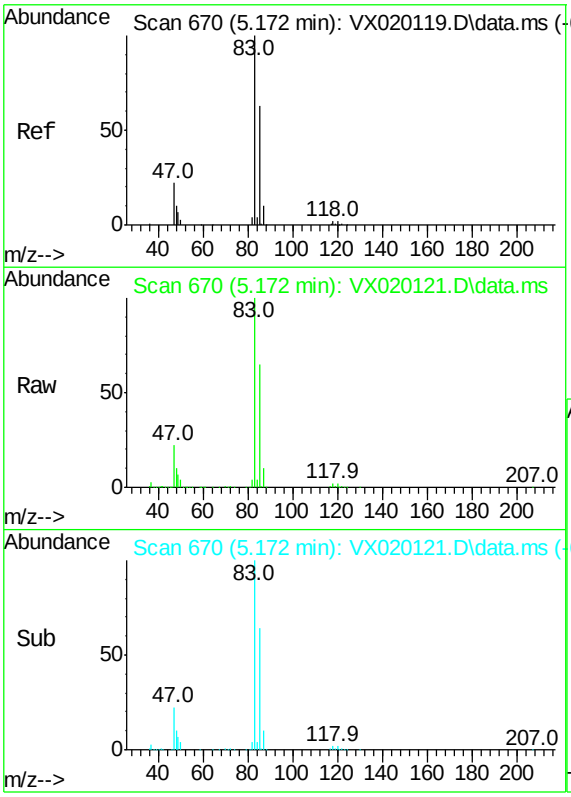


#29
Tetrahydrofuran
Concen: 796.10 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 42 Resp: 1064376

Ion	Ratio	Lower	Upper
42	100		
72	50.6	41.7	62.5
71	47.0	38.4	57.6

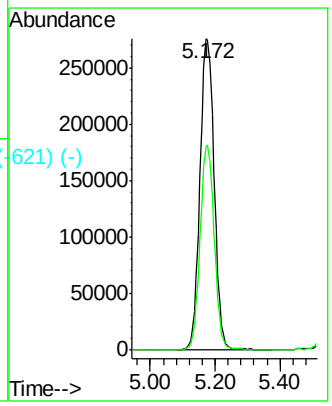




#30
Chloroform
Concen: 157.78 ug/l
RT: 5.172 min Scan# 670
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 83 Resp: 829752

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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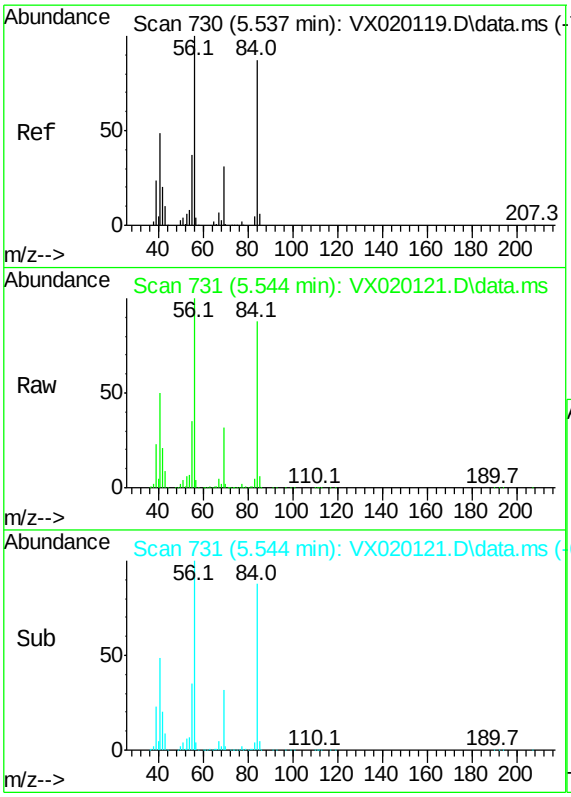
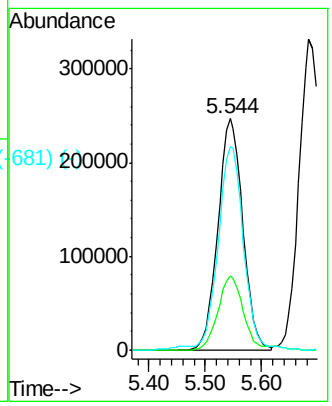
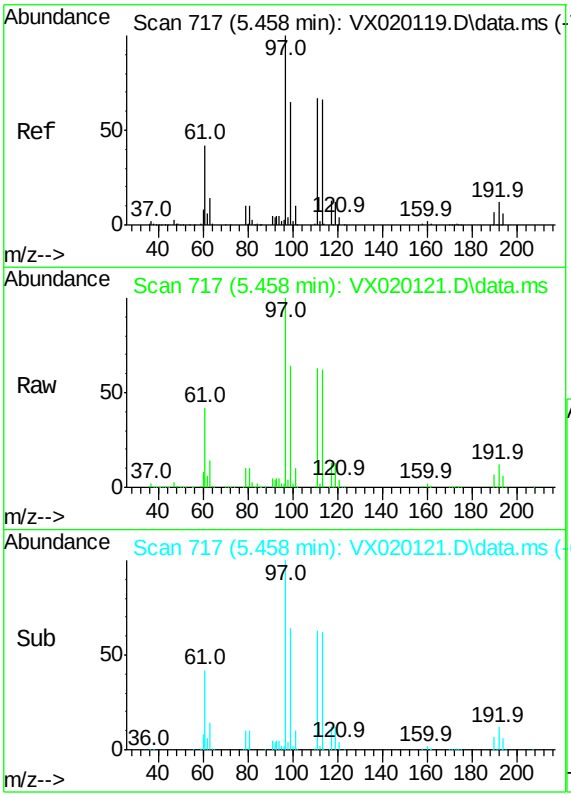


#31
Cyclohexane
Concen: 174.31 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 56 Resp: 751075

Ion	Ratio	Lower	Upper
56	100		
69	32.1	25.3	37.9
84	86.7	71.4	107.0

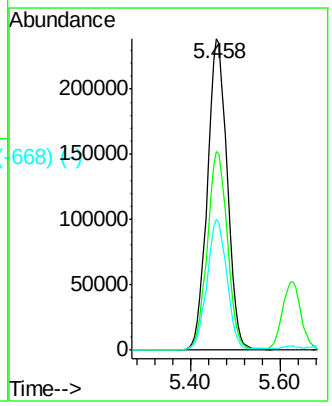




#32
1,1,1-Trichloroethane
Concen: 164.19 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 97 Resp: 728333

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	42.1	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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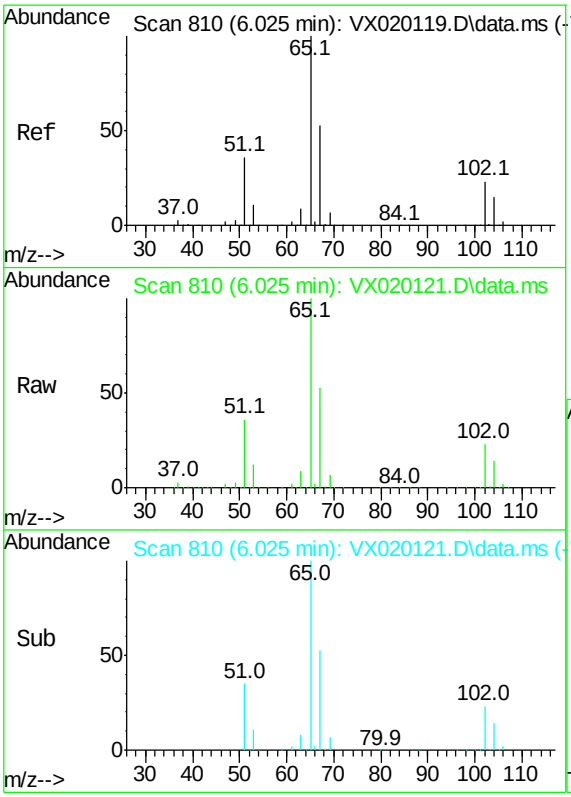
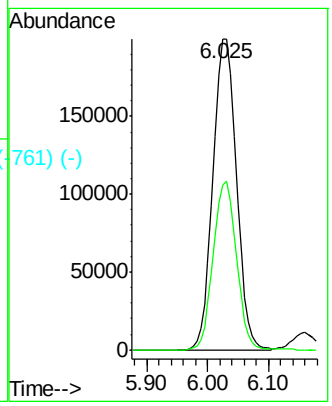
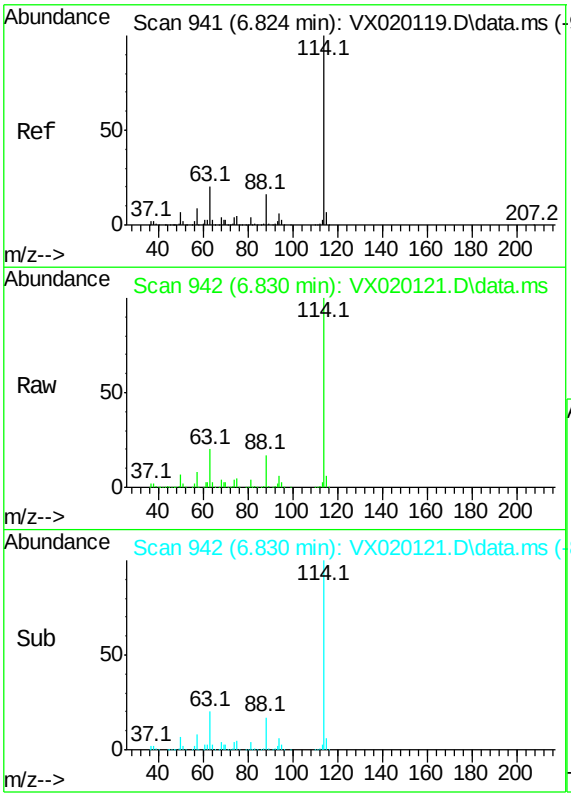


#33
1,2-Dichloroethane-d4
Concen: 150.50 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 65 Resp: 530313

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	105.4

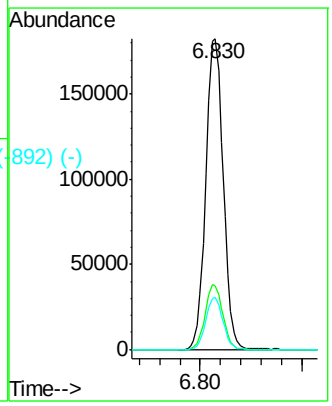




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:114 Resp: 431493

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.8
88	16.9	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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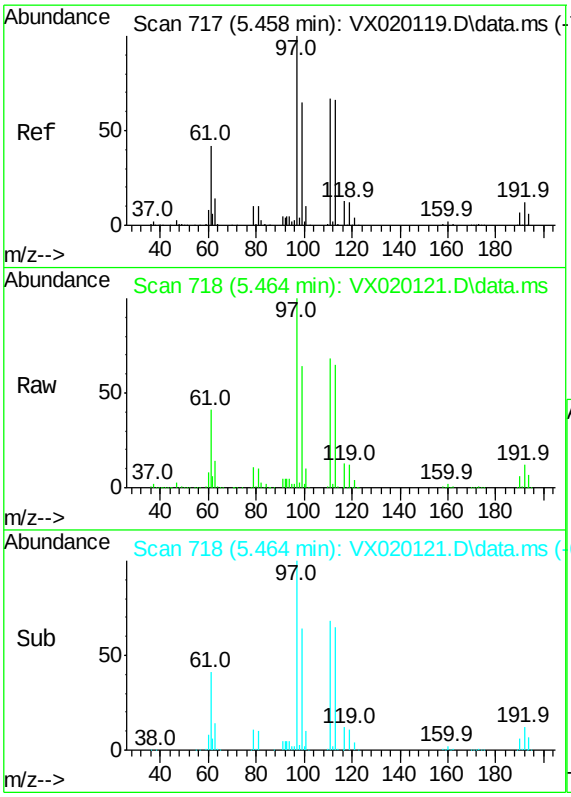
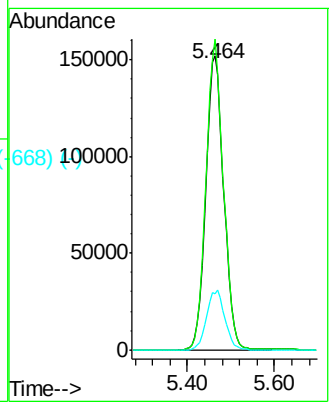
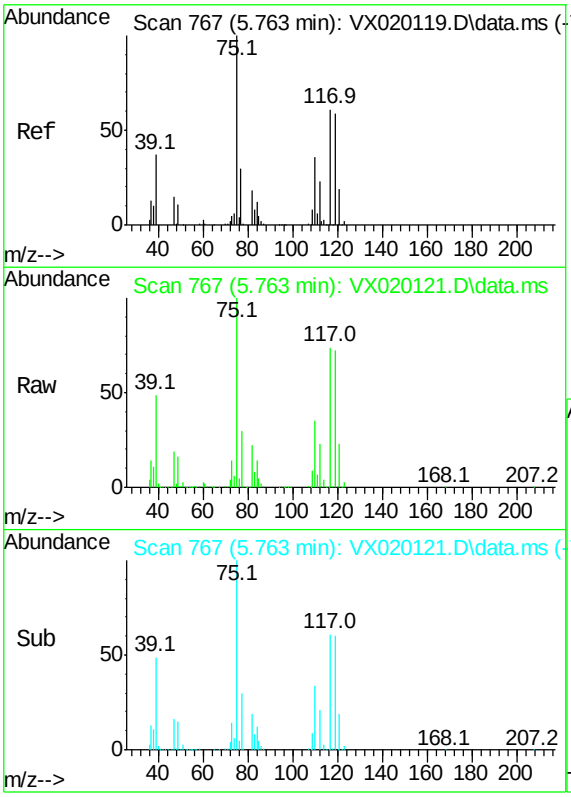


#35
Dibromofluoromethane
Concen: 155.30 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:113 Resp: 434811

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	20.4	16.7	25.1

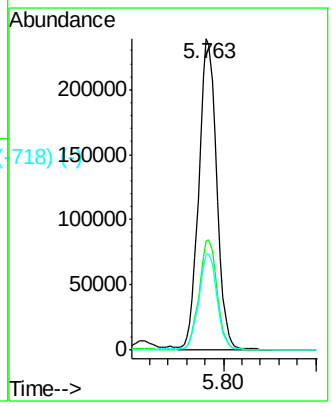




#36
1,1-Dichloropropene
Concen: 164.12 ug/l
RT: 5.763 min Scan# 767
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 75 Resp: 639318

Ion	Ratio	Lower	Upper
75	100		
110	35.4	18.1	54.4
77	31.1	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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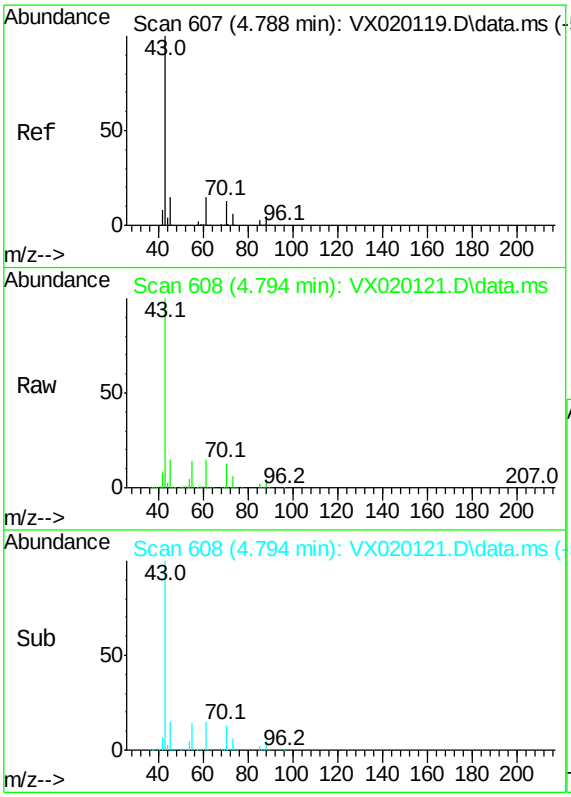
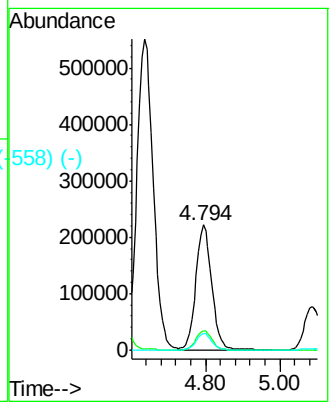
12/21/2020 3:57:59 PM

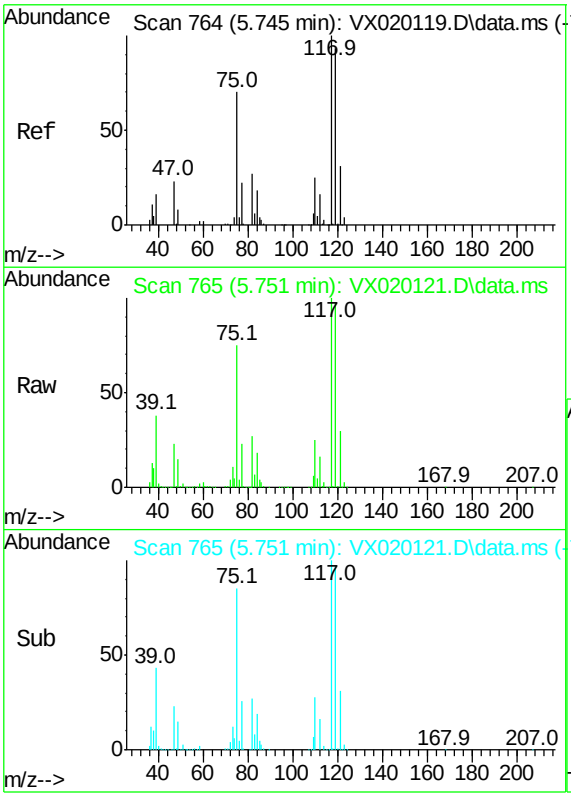


#37
Ethyl Acetate
Concen: 160.01 ug/l
RT: 4.794 min Scan# 608
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 649123

Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.8	19.2
70	12.7	10.5	15.7

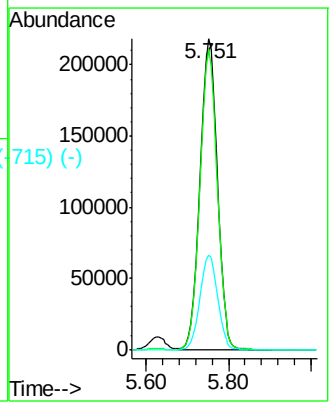




#38
Carbon Tetrachloride
Concen: 166.05 ug/l
RT: 5.751 min Scan# 765
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:117 Resp: 629507

Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.2	114.2
121	30.4	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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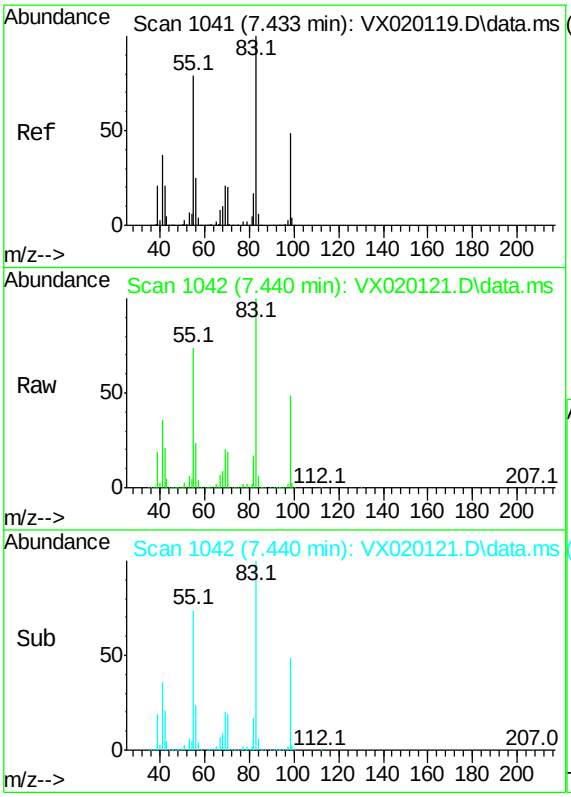
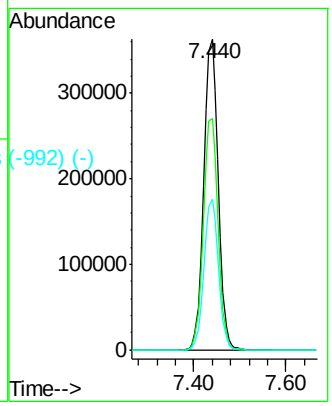
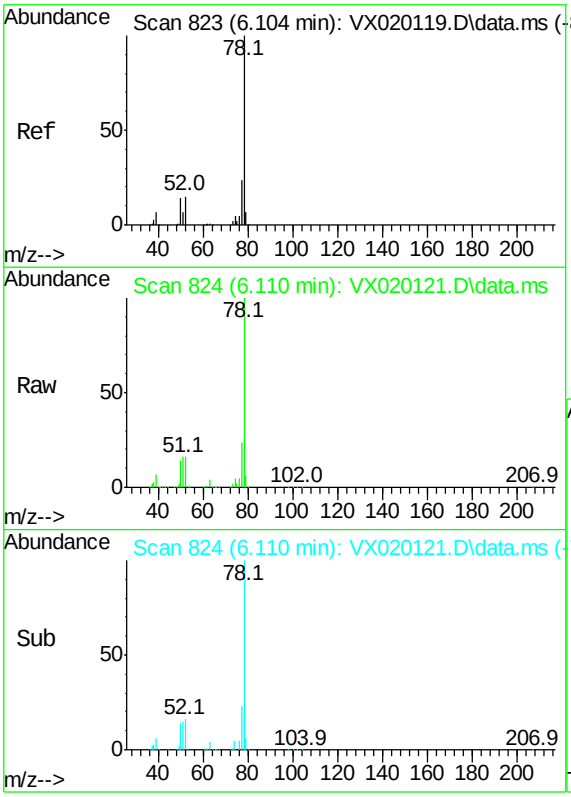


#39
Methylcyclohexane
Concen: 173.84 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 83 Resp: 784675

Ion	Ratio	Lower	Upper
83	100		
55	74.4	58.9	88.3
98	48.6	38.1	57.1

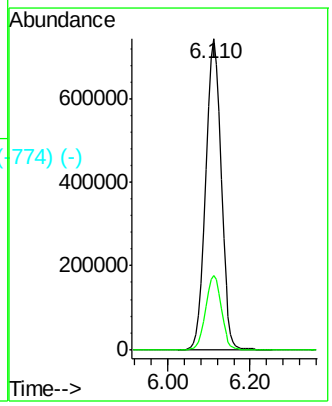




#40
Benzene
Concen: 158.97 ug/l
RT: 6.110 min Scan# 824
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 78 Resp: 1926146

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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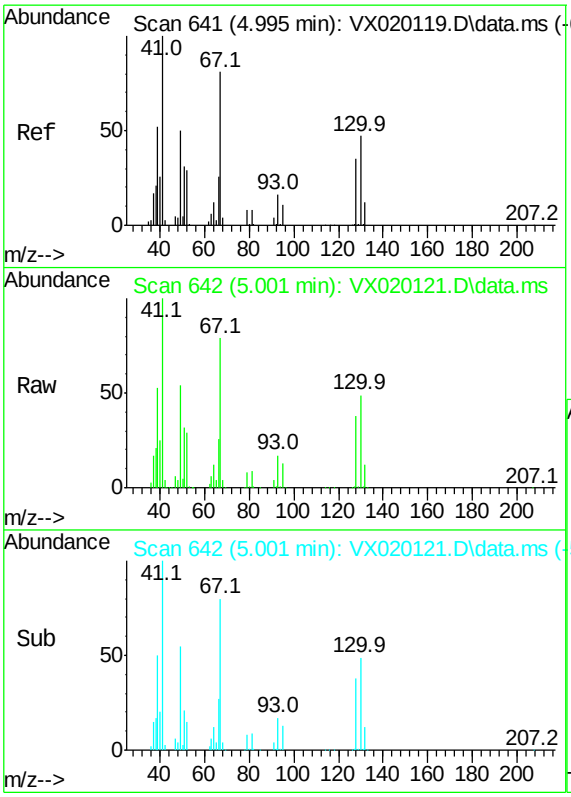
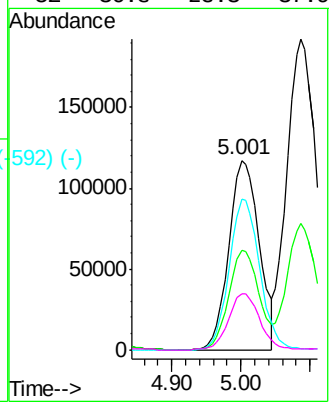
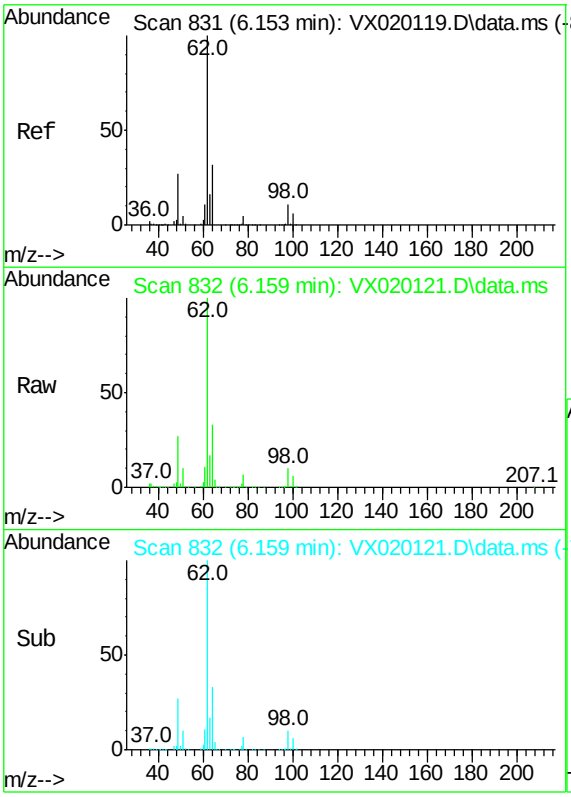


#41
Methacrylonitrile
Concen: 160.05 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 41 Resp: 356024

Ion	Ratio	Lower	Upper
41	100		
39	52.3	42.5	63.7
67	80.7	65.0	97.6
52	30.8	25.3	37.9

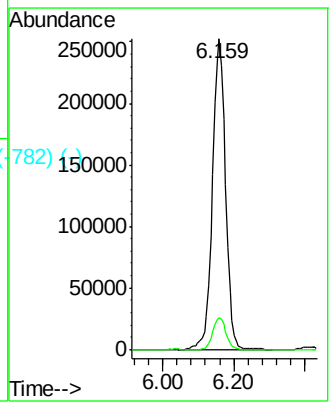




#42
1,2-Dichloroethane
Concen: 156.24 ug/l
RT: 6.159 min Scan# 832
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 62 Resp: 650974

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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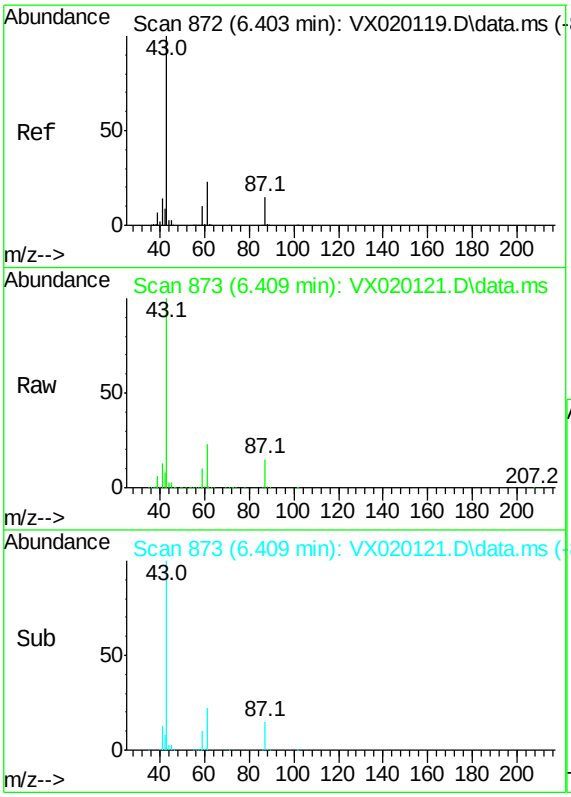
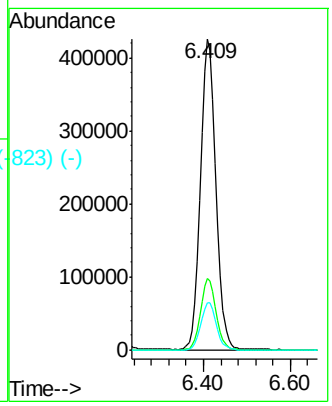
12/21/2020 3:57:59 PM

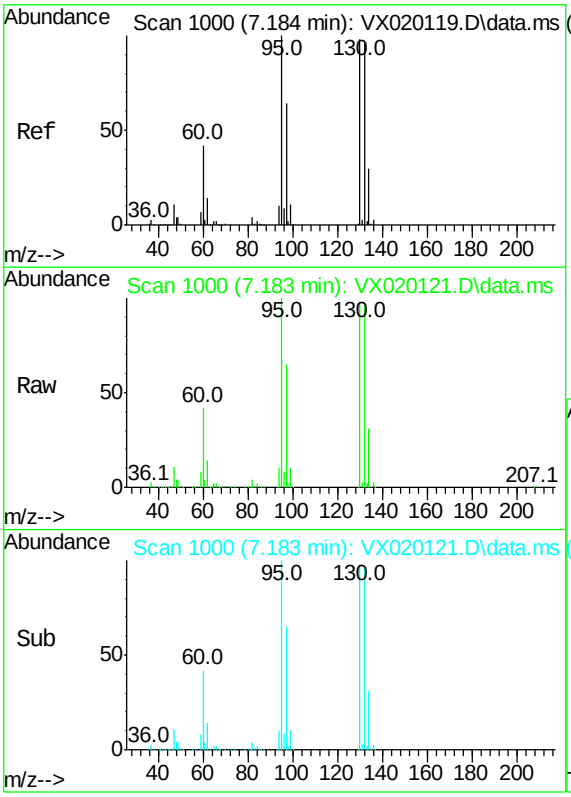


#43
Isopropyl Acetate
Concen: 162.98 ug/l
RT: 6.409 min Scan# 873
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 1069410

Ion	Ratio	Lower	Upper
43	100		
61	22.9	18.2	27.4
87	15.2	12.5	18.7

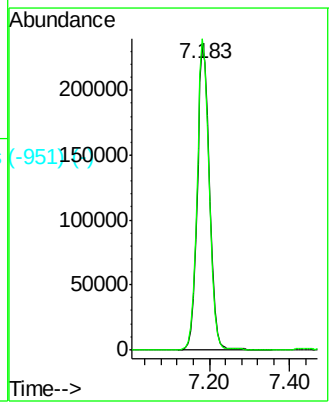




#44
Trichloroethene
Concen: 159.31 ug/l
RT: 7.183 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:130 Resp: 500532

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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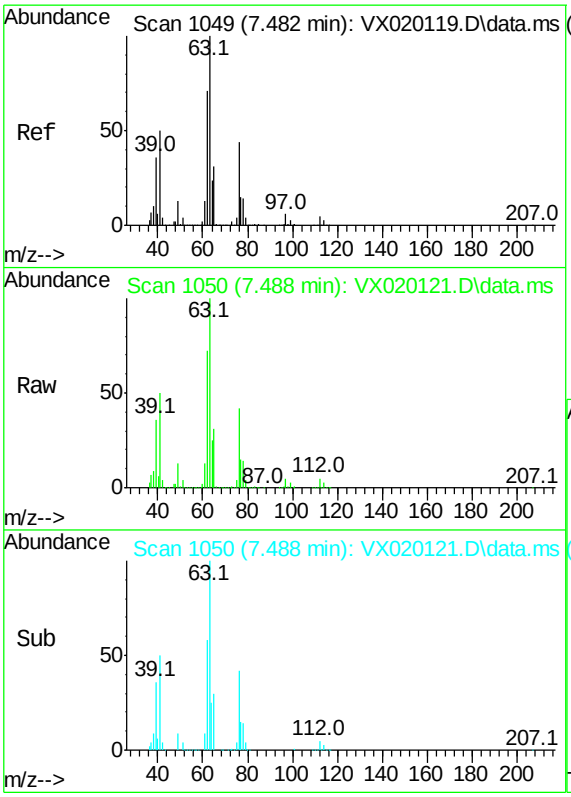
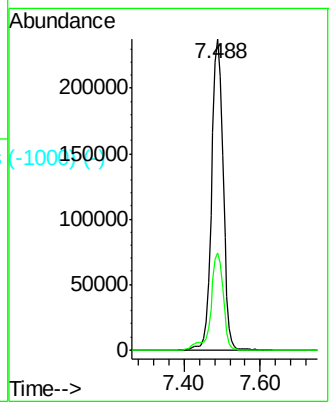
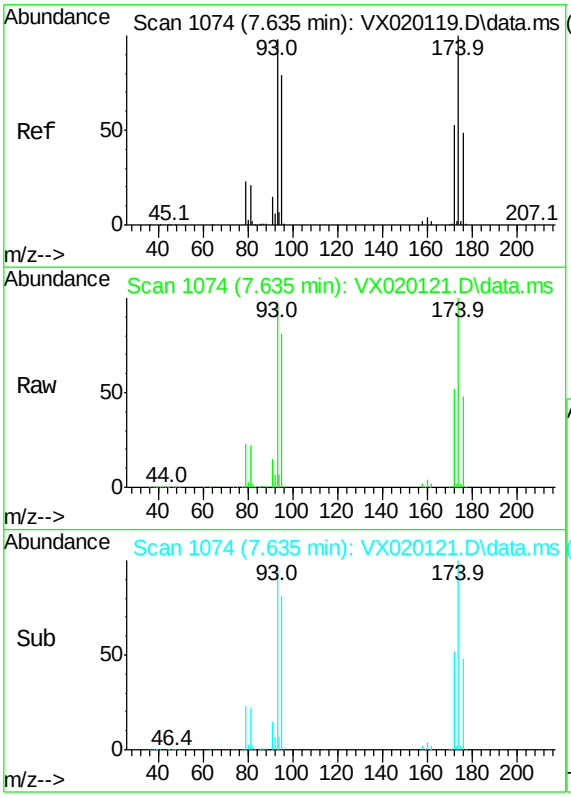


#45
1,2-Dichloropropane
Concen: 160.69 ug/l
RT: 7.488 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 63 Resp: 490020

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.7	38.5

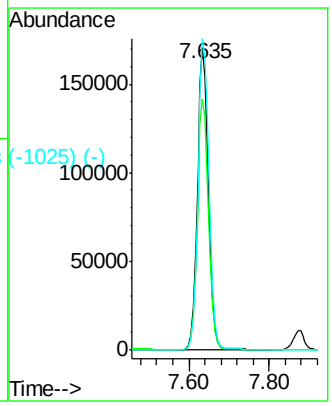




#46
Dibromomethane
Concen: 159.26 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 93 Resp: 328451

Ion	Ratio	Lower	Upper
93	100		
95	83.7	66.8	100.2
174	102.8	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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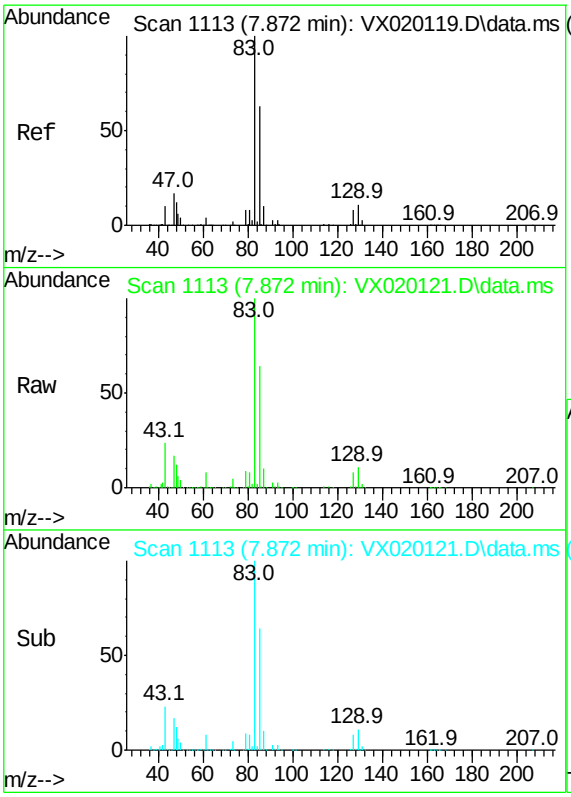
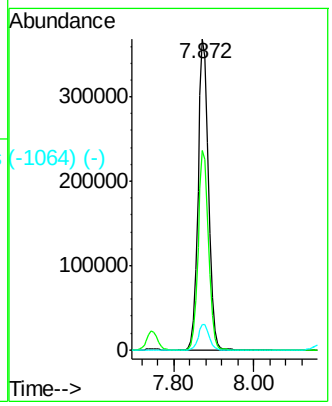
12/21/2020 3:57:59 PM

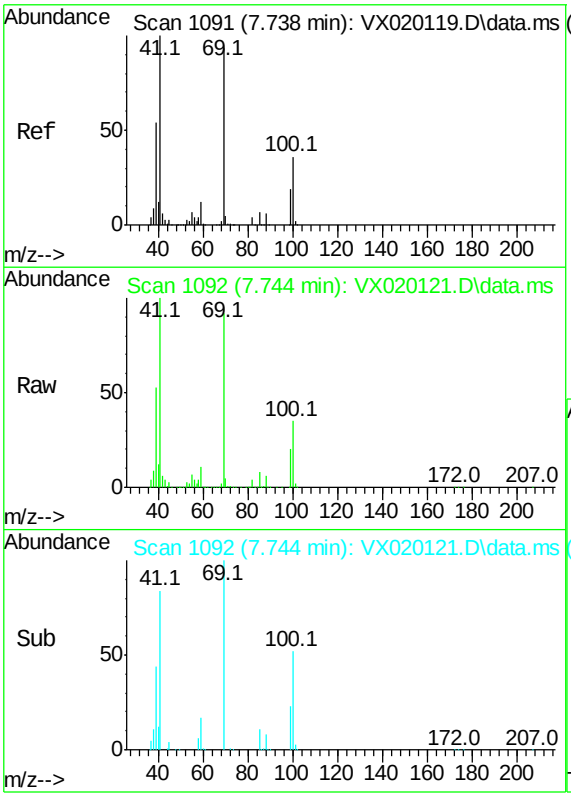


#47
Bromodichloromethane
Concen: 164.61 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 83 Resp: 669855

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.4	77.0
127	8.2	6.8	10.2

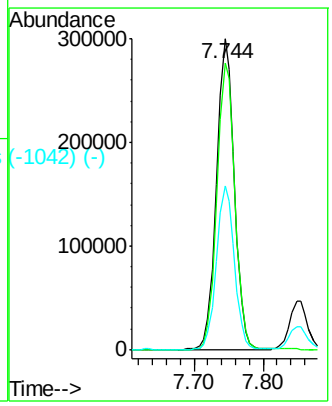




#48
Methyl methacrylate
Concen: 165.87 ug/l
RT: 7.744 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 41 Resp: 535764

Ion	Ratio	Lower	Upper
41	100		
69	93.7	76.0	114.0
39	53.0	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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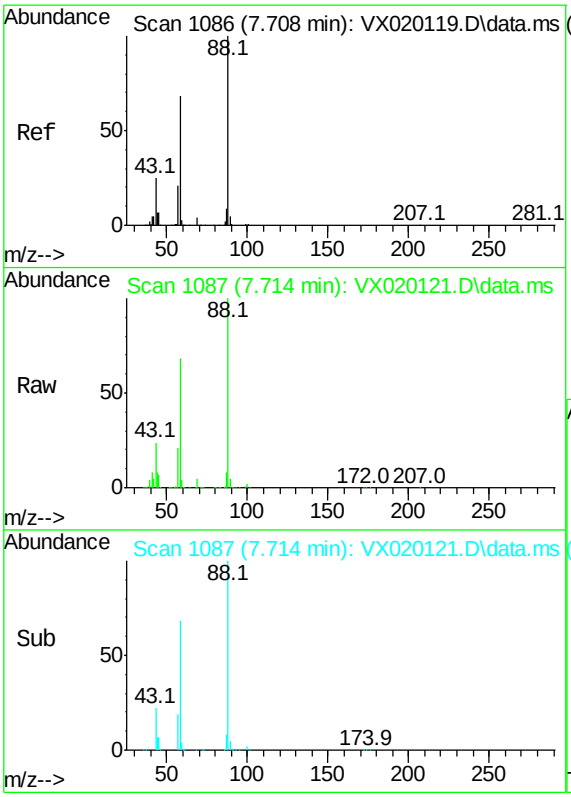
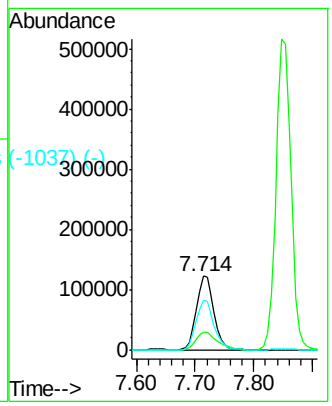
12/21/2020 3:57:59 PM

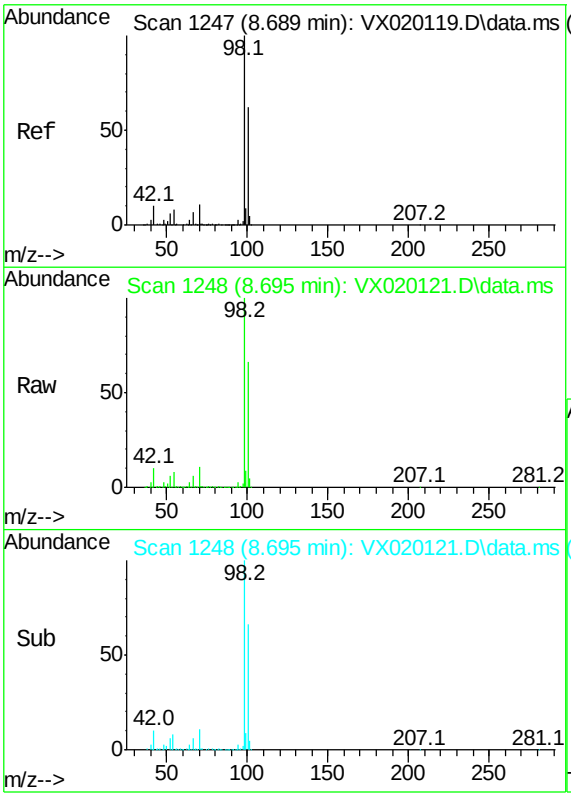


#49
1,4-Dioxane
Concen: 3188.51 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 88 Resp: 247019

Ion	Ratio	Lower	Upper
88	100		
43	29.1	23.2	34.8
58	70.2	55.0	82.4

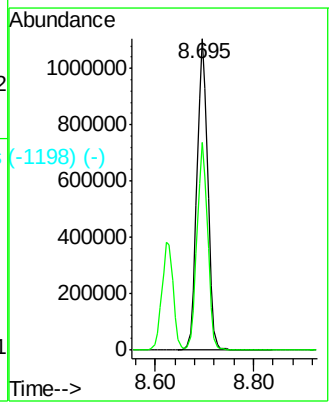




#50
Toluene-d8
Concen: 157.33 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 98 Resp: 1674351

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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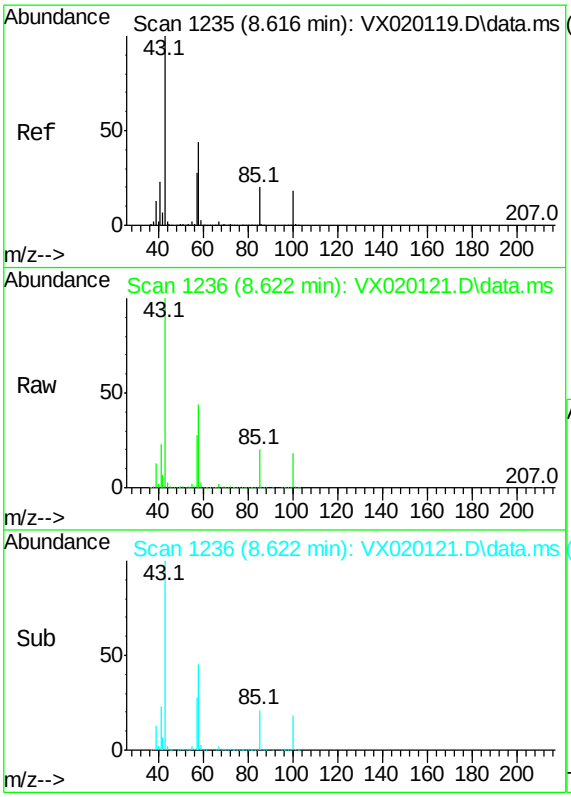
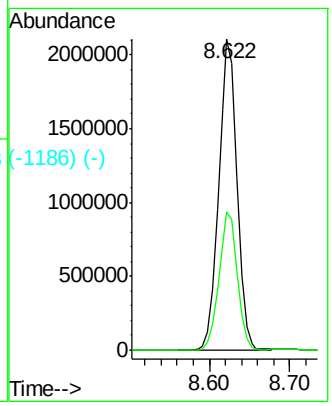
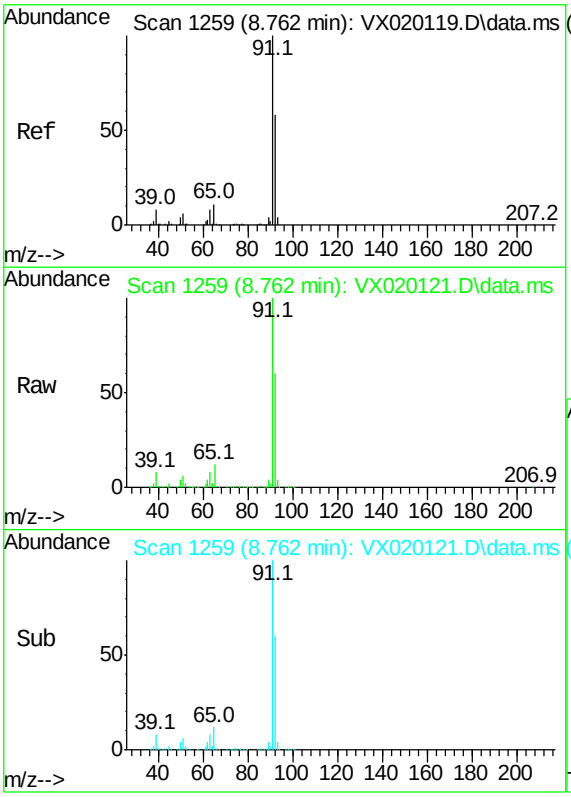


#51
4-Methyl-2-Pentanone
Concen: 826.06 ug/l
RT: 8.622 min Scan# 1236
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 3318892

Ion	Ratio	Lower	Upper
43	100		
58	44.6	35.4	53.0

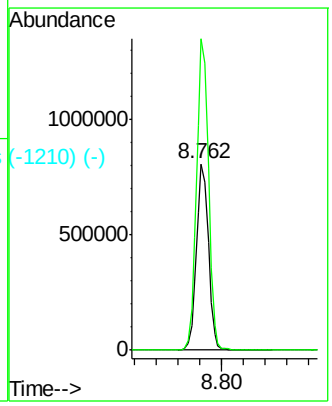




#52
Toluene
Concen: 160.60 ug/l
RT: 8.762 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 92 Resp: 1212043

Ion	Ratio	Lower	Upper
92	100		
91	168.4	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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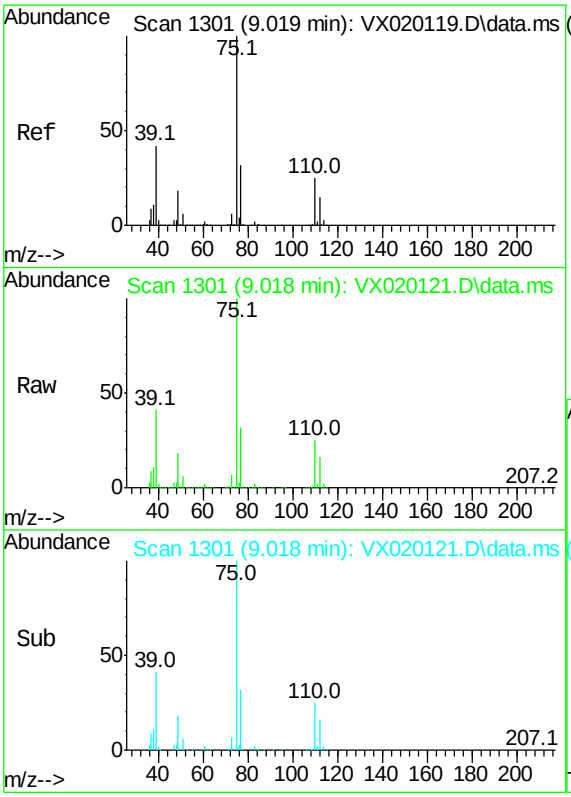
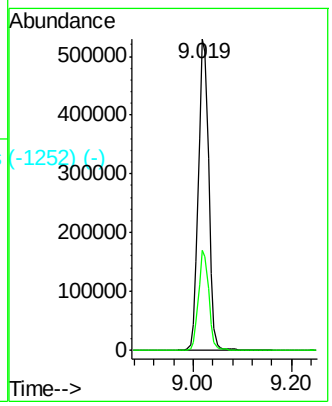
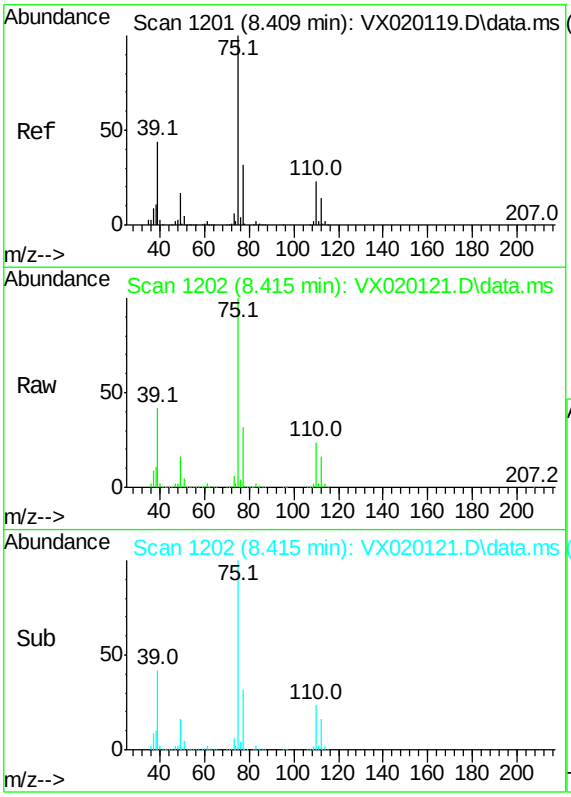


#53
t-1,3-Dichloropropene
Concen: 171.73 ug/l
RT: 9.018 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 75 Resp: 774129

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.9	37.3

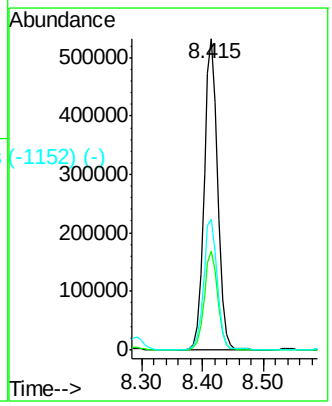




#54
cis-1,3-Dichloropropene
Concen: 168.14 ug/l
RT: 8.415 min Scan# 1202
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 75 Resp: 825792

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5
39	41.9	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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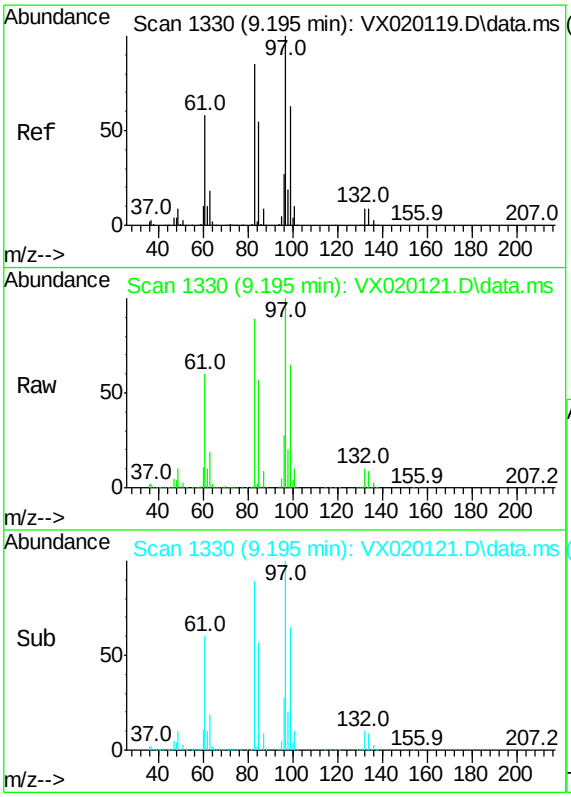
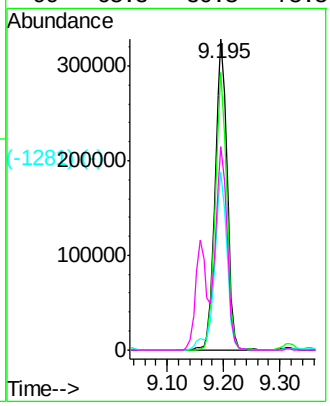
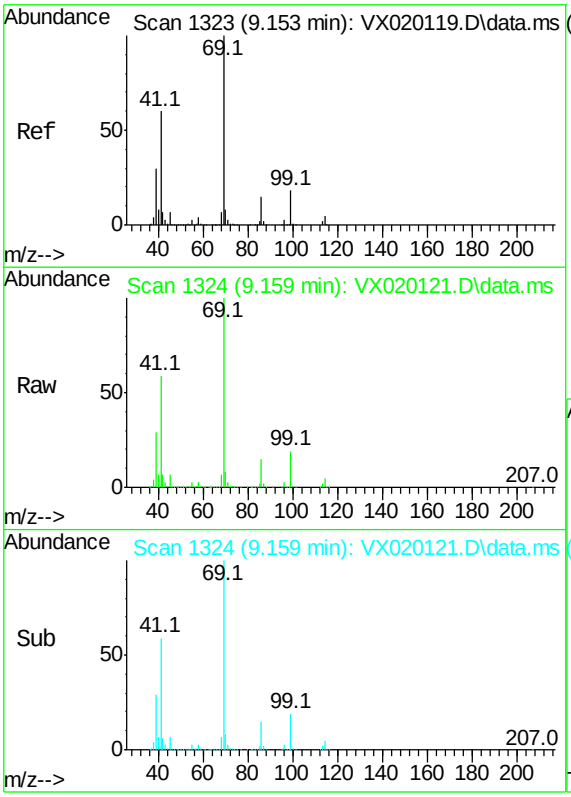


#55
1,1,2-Trichloroethane
Concen: 157.13 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 97 Resp: 483007

Ion	Ratio	Lower	Upper
97	100		
83	89.1	69.3	103.9
85	57.1	44.3	66.5
99	65.5	50.3	75.5

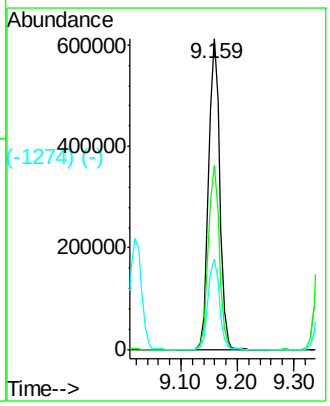




#56
Ethyl methacrylate
Concen: 174.82 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 69 Resp: 811647

Ion	Ratio	Lower	Upper
69	100		
41	58.9	46.8	70.2
39	29.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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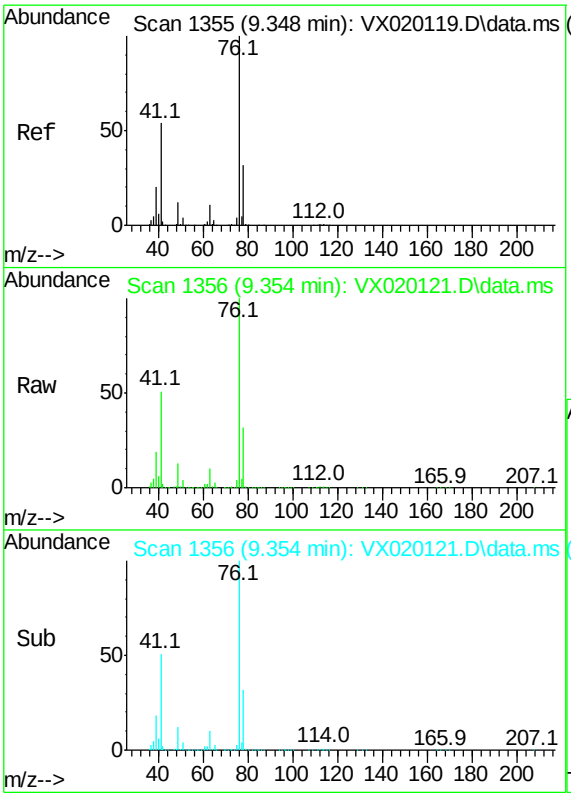
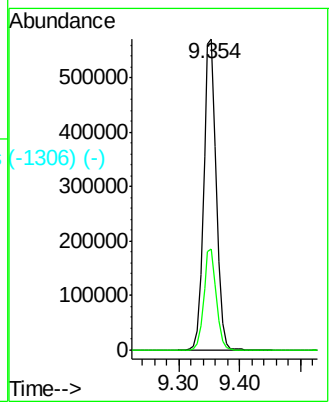
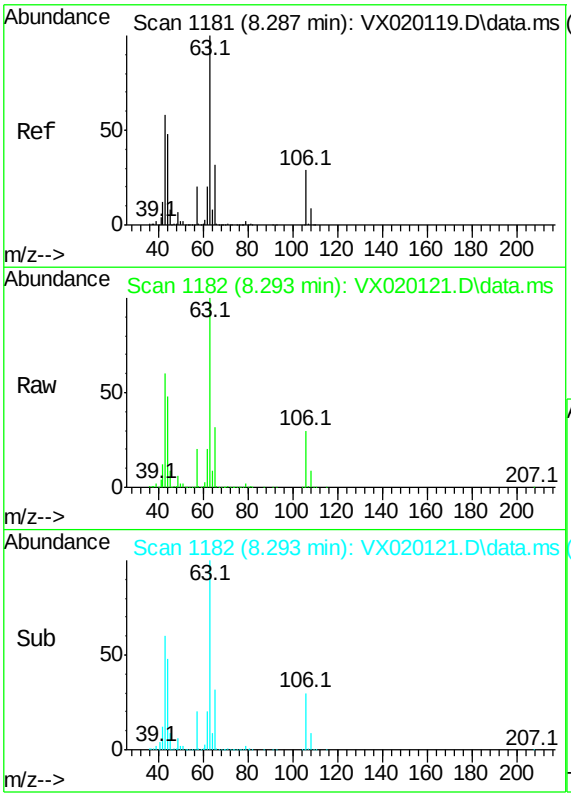


#57
1,3-Dichloropropane
Concen: 157.75 ug/l
RT: 9.354 min Scan# 1356
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 76 Resp: 830025

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.2

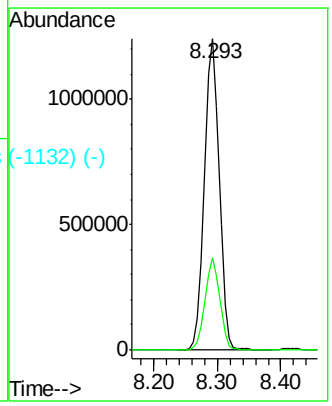




#58
2-Chloroethyl Vinyl ether
Concen: 789.94 ug/l
RT: 8.293 min Scan# 1182
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 63 Resp: 1940278

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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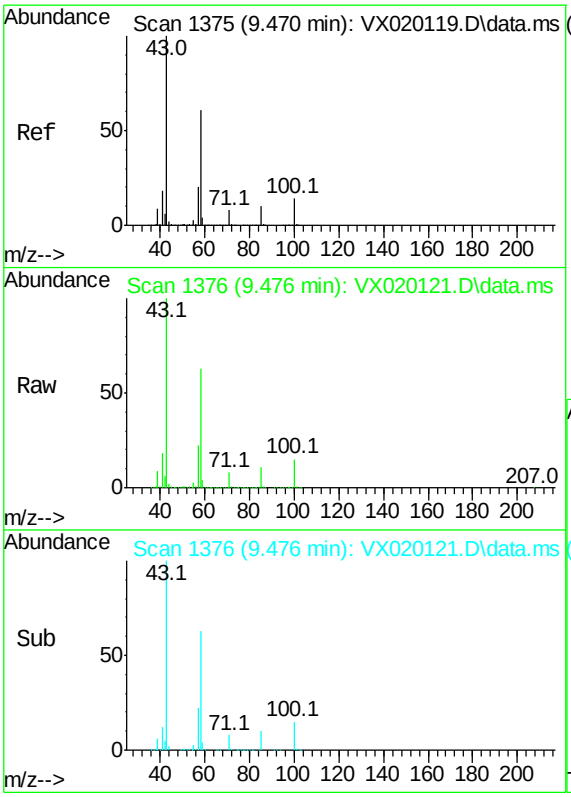
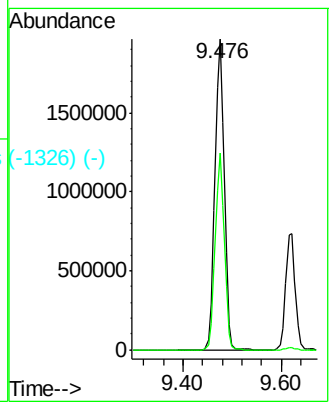
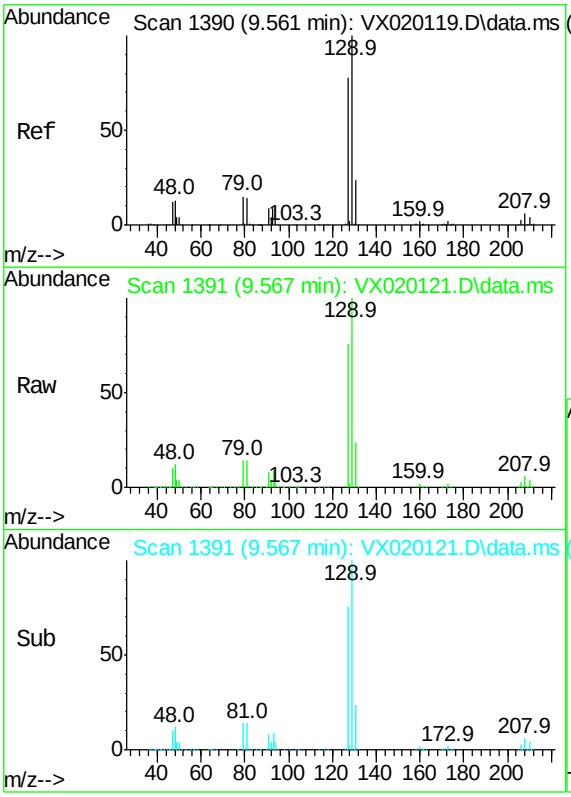


#58
2-Hexanone
Concen: 842.11 ug/l
RT: 9.476 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 2609872

Ion	Ratio	Lower	Upper
43	100		
58	62.2	30.9	92.8

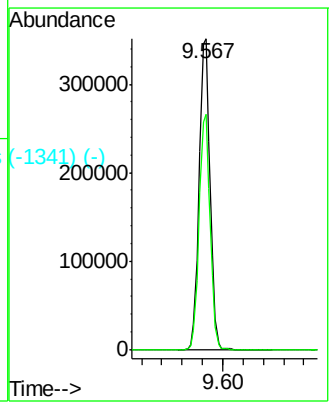




#60
Dibromochloromethane
Concen: 170.33 ug/l
RT: 9.567 min Scan# 1391
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:129 Resp: 529335

Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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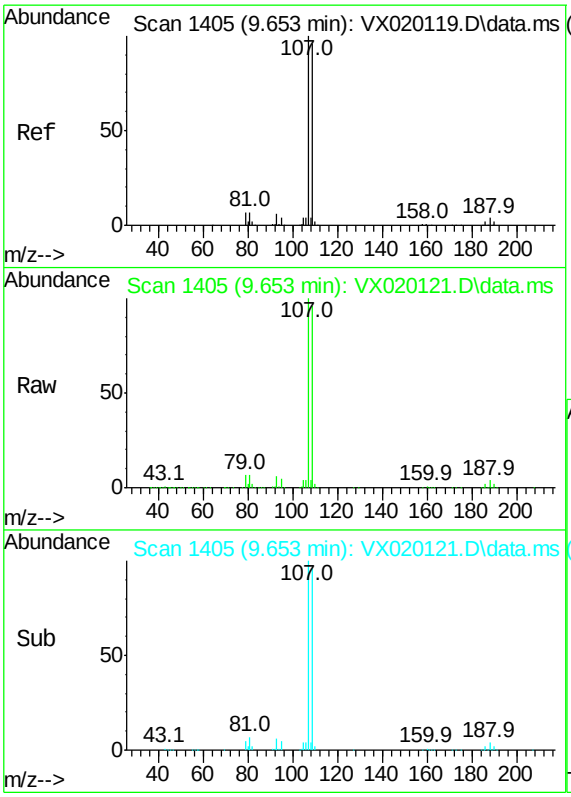
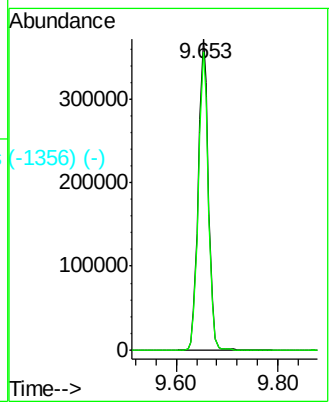
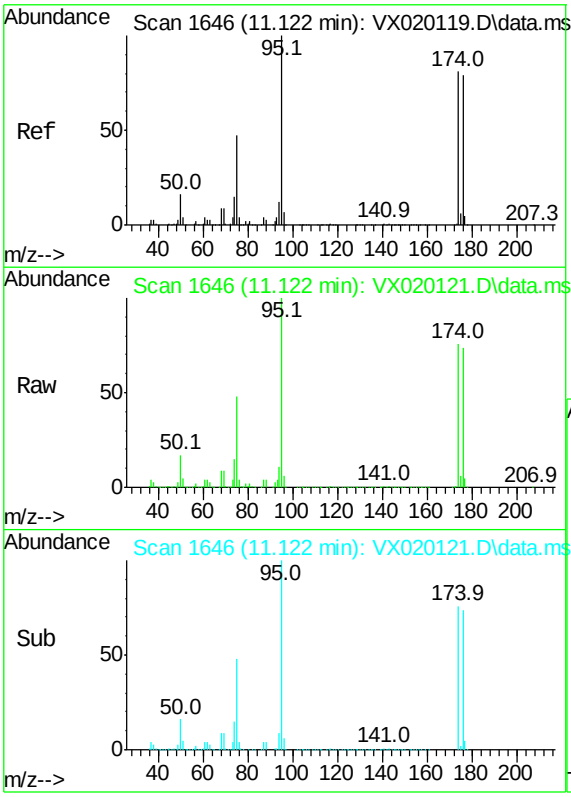


#61
1,2-Dibromoethane
Concen: 158.20 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:107 Resp: 516416

Ion	Ratio	Lower	Upper
107	100		
109	94.8	75.8	113.6

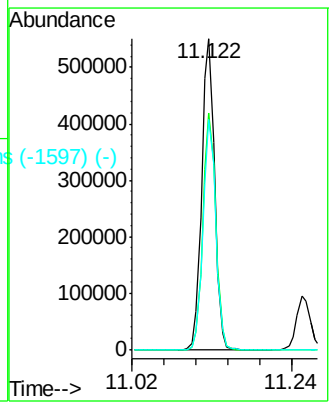




#62
4-Bromofluorobenzene
Concen: 169.75 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 95 Resp: 688214

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	154.6
176	73.2	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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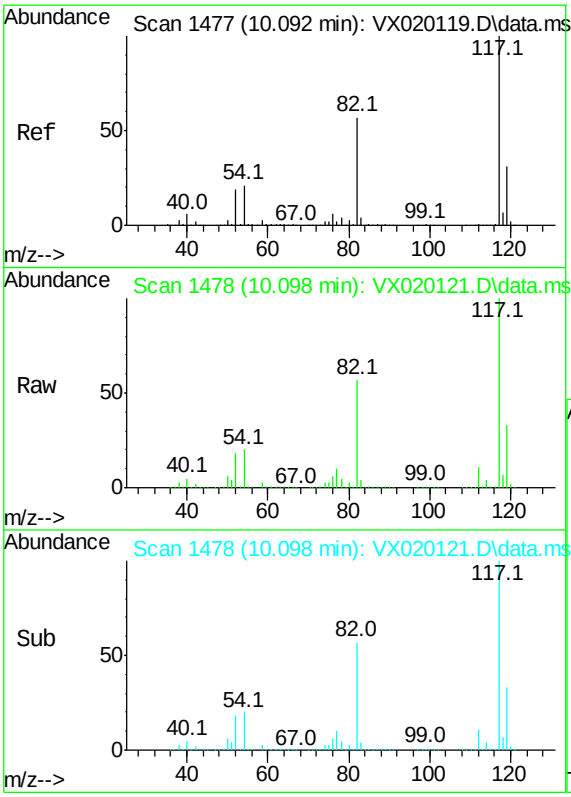
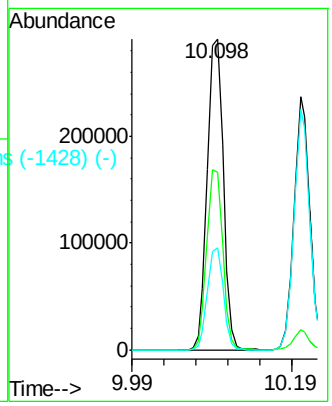
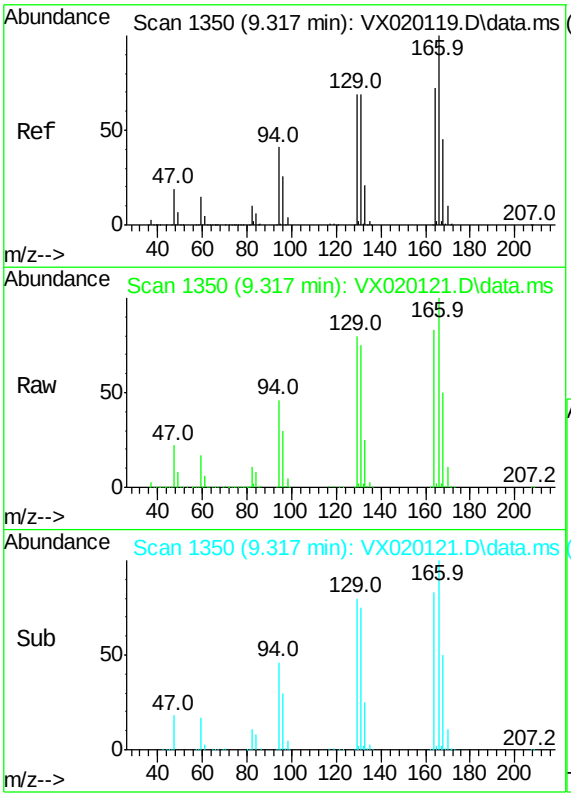


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:117 Resp: 406146

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.4	71.2
119	32.7	26.6	39.8

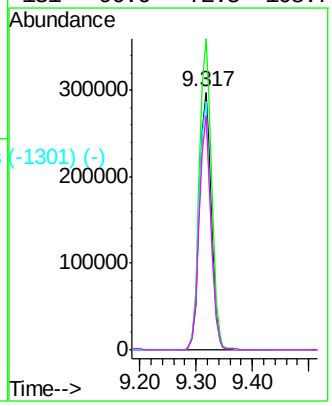




#64
Tetrachloroethene
Concen: 159.37 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:164 Resp: 433458

Ion	Ratio	Lower	Upper
164	100		
166	120.6	103.4	155.2
129	96.5	70.8	106.2
131	90.6	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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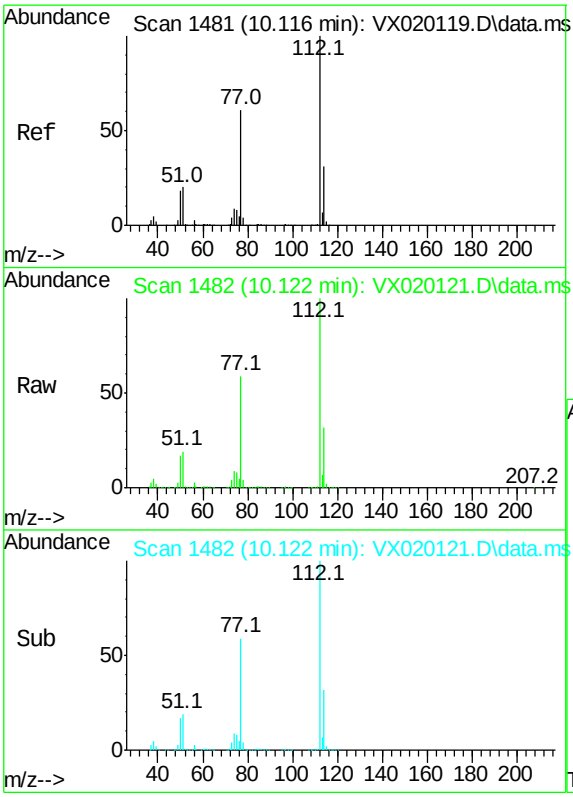
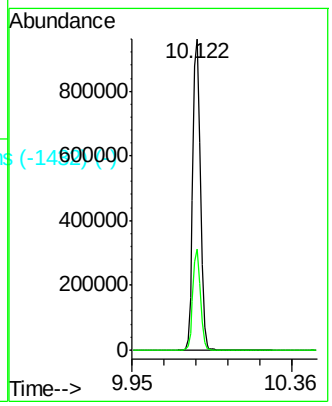
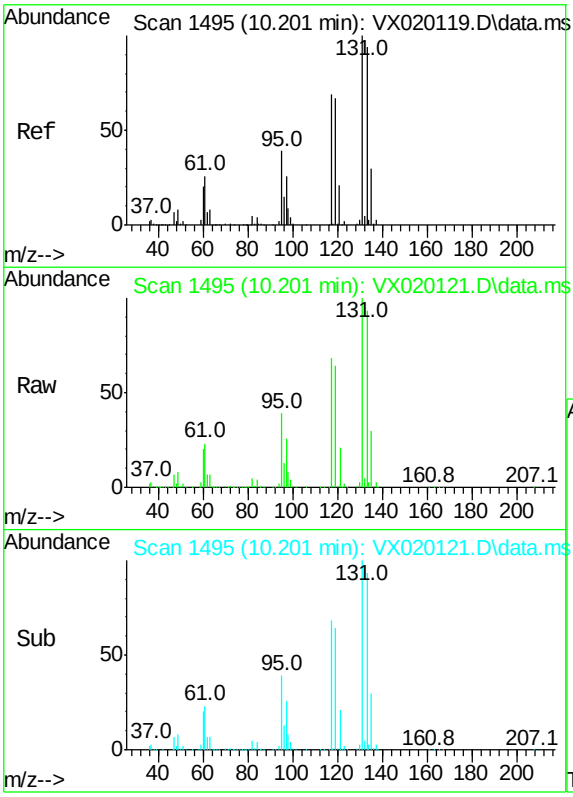


#65
Chlorobenzene
Concen: 157.31 ug/l
RT: 10.122 min Scan# 1482
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:112 Resp: 1281018

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.8	38.6

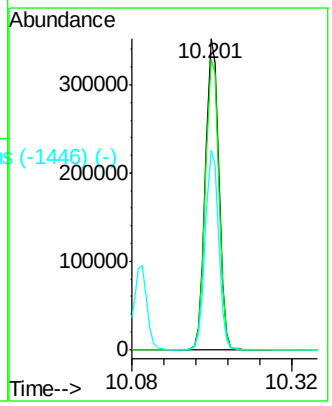




#66
1,1,1,2-Tetrachloroethane
Concen: 165.24 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:131 Resp: 484459

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.7	143.1
119	64.4	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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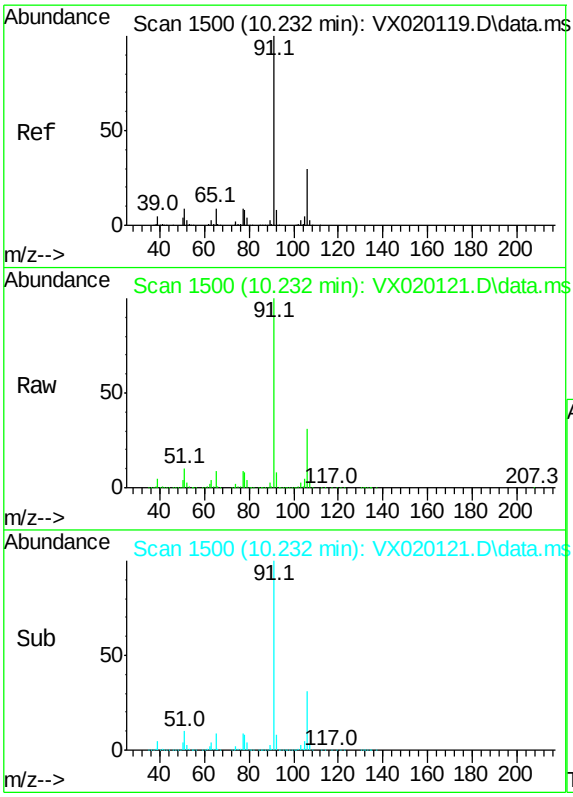
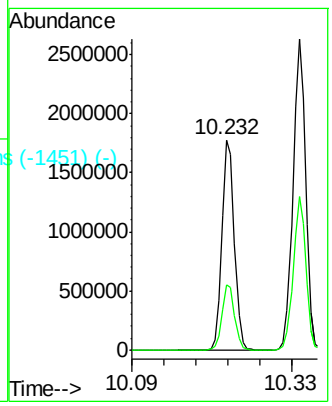
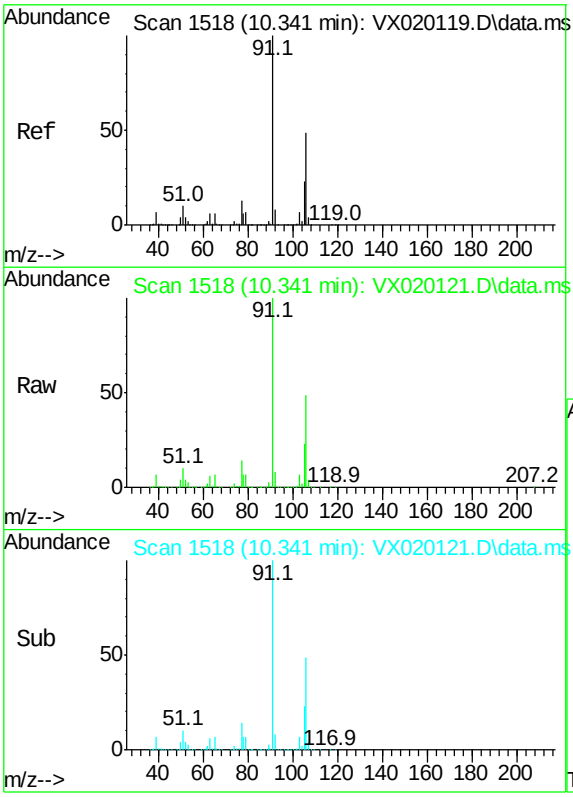


#67
Ethyl Benzene
Concen: 161.80 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 91 Resp: 2324461

Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.6	37.0

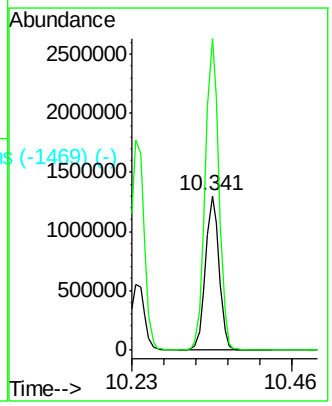




#68
m/p-Xylenes
Concen: 321.75 ug/l
RT: 10.341 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:106 Resp: 1743154

Ion	Ratio	Lower	Upper
106	100		
91	203.7	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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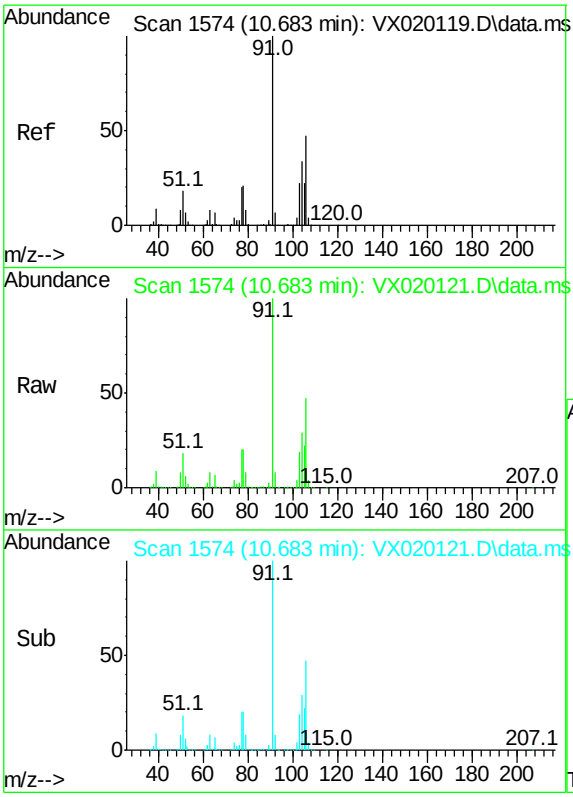
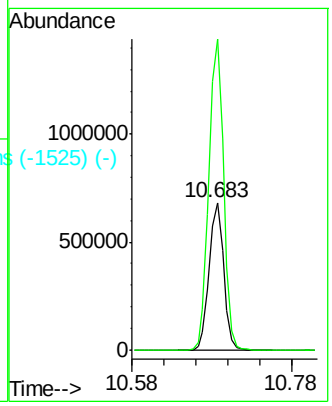
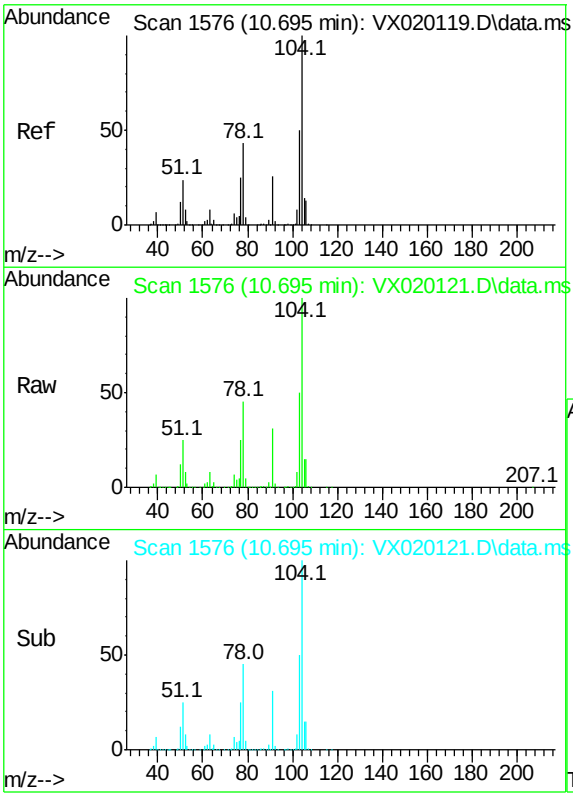


o-Xylene
Concen: 162.72 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:106 Resp: 850649

Ion	Ratio	Lower	Upper
106	100		
91	215.2	108.1	324.2

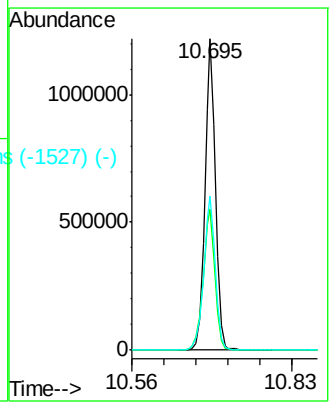




Styrene
Concen: 169.83 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:104 Resp: 1500242

Ion	Ratio	Lower	Upper
104	100		
78	50.5	40.0	60.0
103	54.5	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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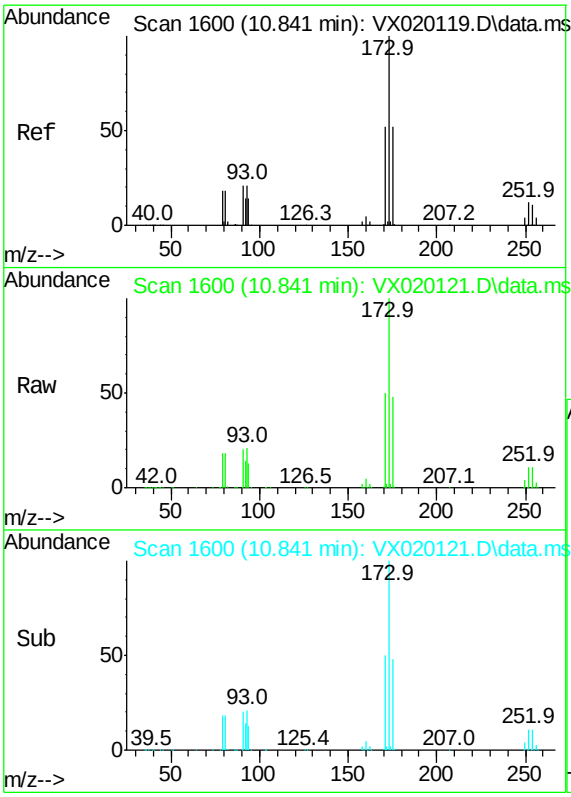
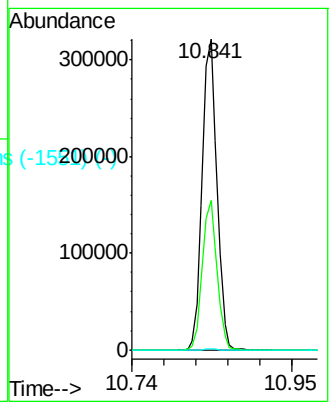
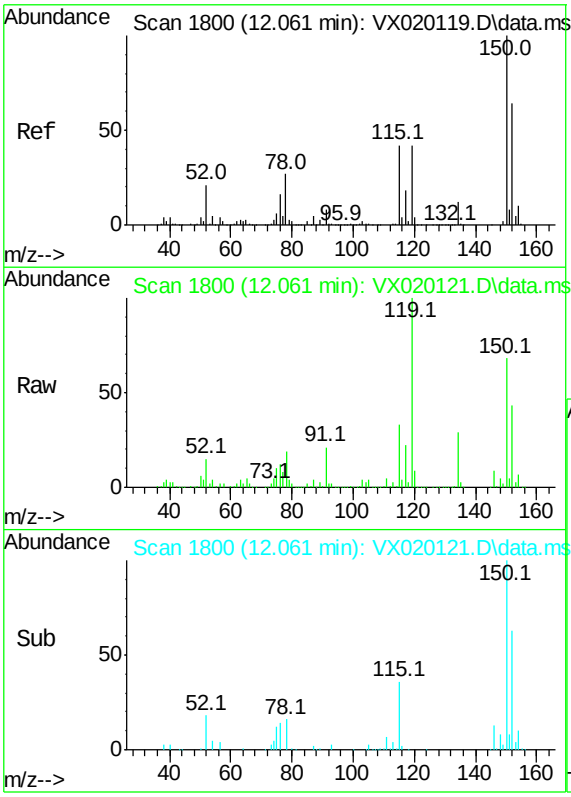


#71
Bromoform
Concen: 187.77 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:173 Resp: 429447

Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.9	71.8
254	0.1	0.1	0.1#

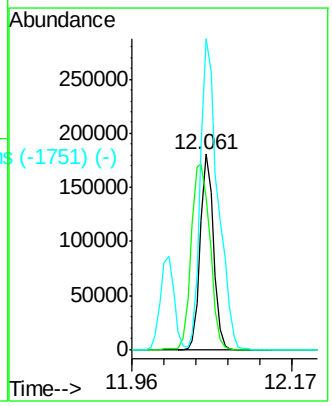




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:152 Resp: 214244

Ion	Ratio	Lower	Upper
152	100		
115	135.4	41.1	123.3#
150	210.4	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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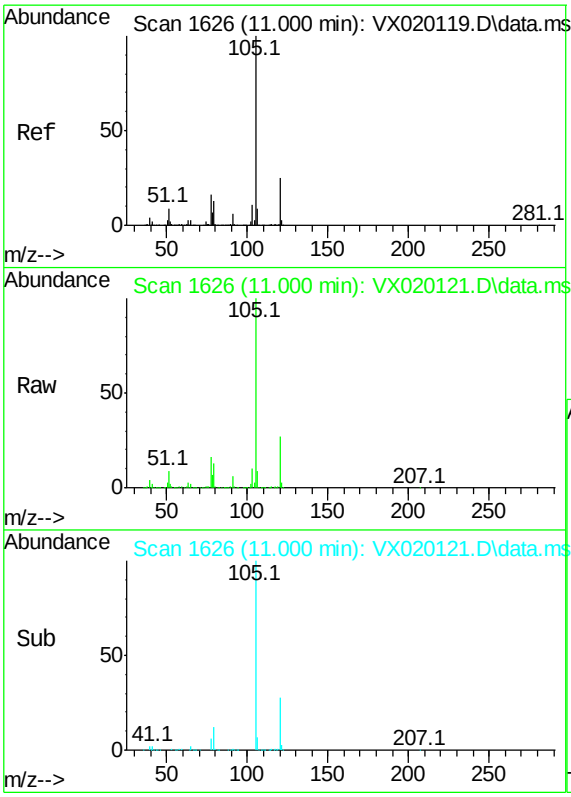
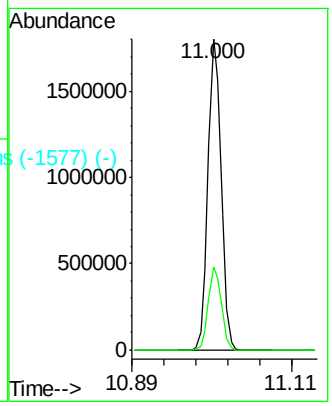
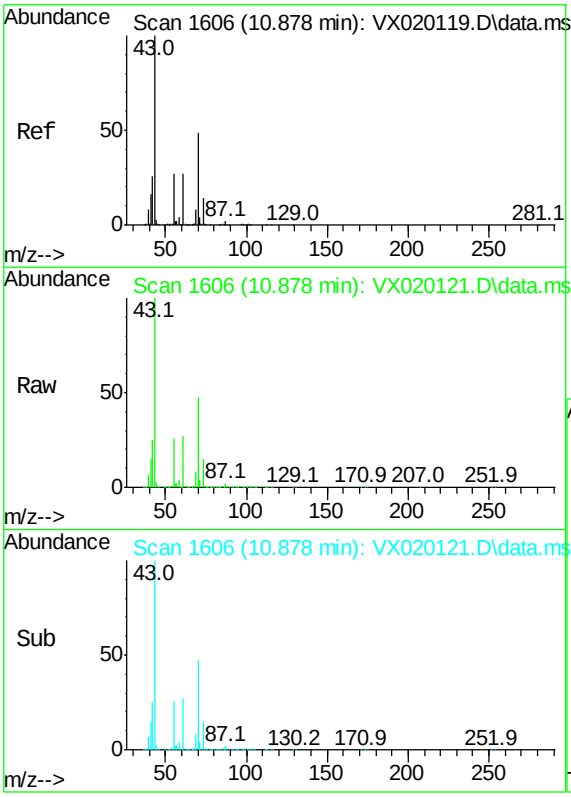


#73
Isopropylbenzene
Concen: 155.29 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:105 Resp: 2276306

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.6

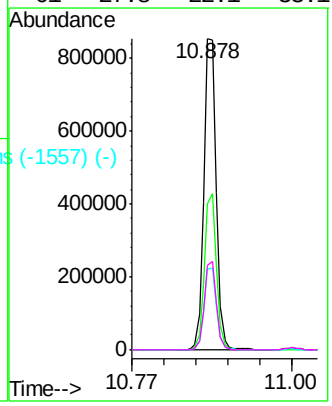




#74
N-amyl acetate
Concen: 172.48 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 43 Resp: 1028642

Ion	Ratio	Lower	Upper
43	100		
70	48.6	39.0	58.6
55	26.3	21.5	32.3
61	27.8	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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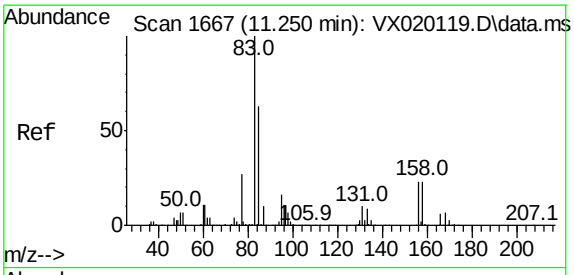
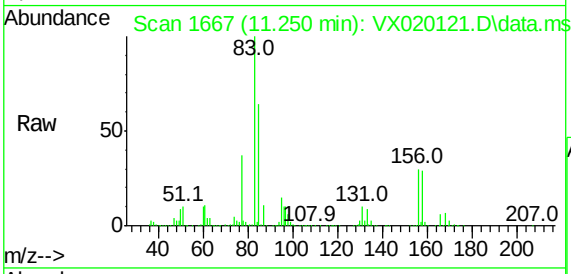
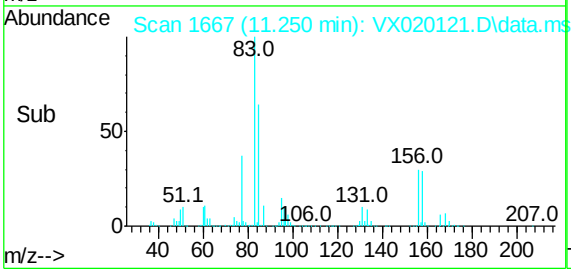


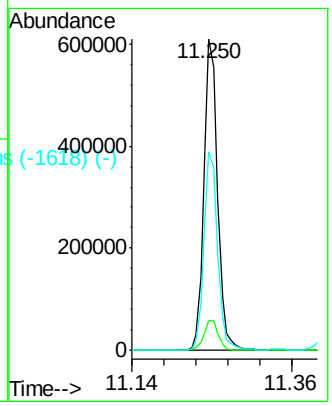
#75
1,1,2,2-Tetrachloroethane
Concen: 153.69 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

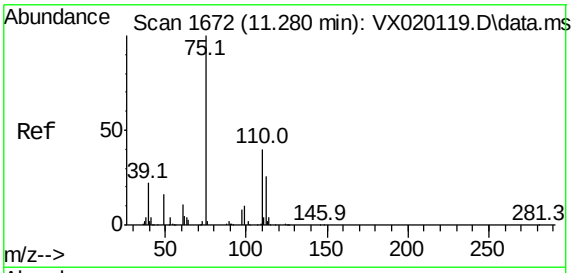
Tgt Ion: 83 Resp: 804369

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.2
85	64.2	31.8	95.4





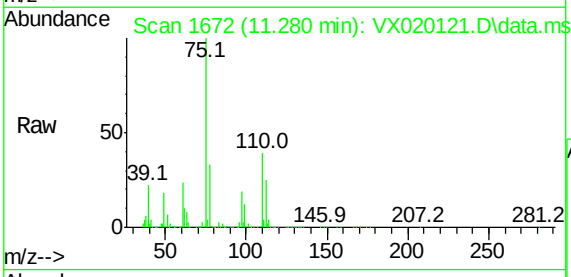


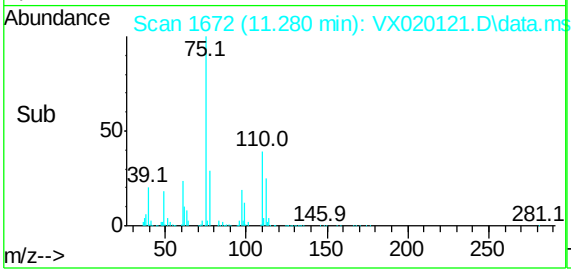


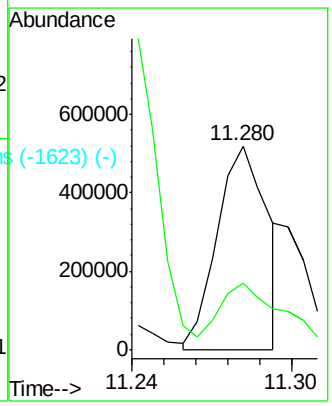
#76
1,2,3-Trichloropropane
Concen: 150.39 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 75 Resp: 732758

Ion	Ratio	Lower	Upper
75	100		
77	41.9	19.1	57.5







Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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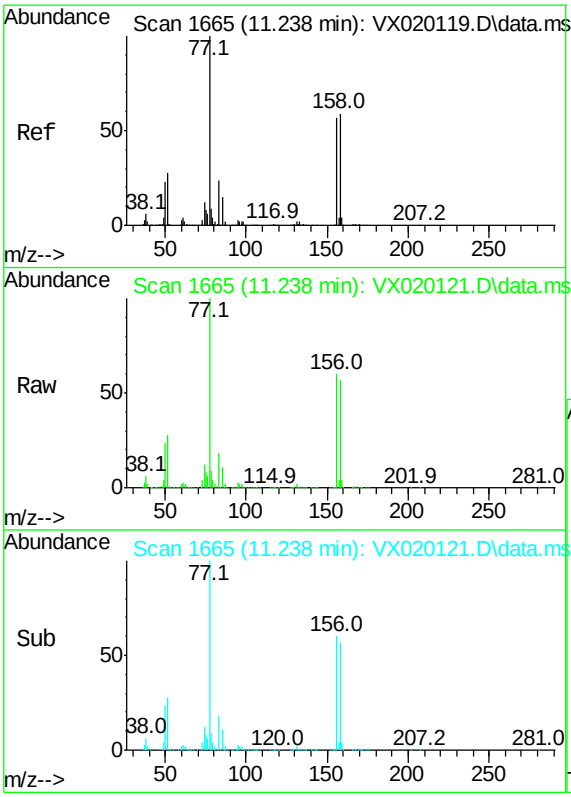
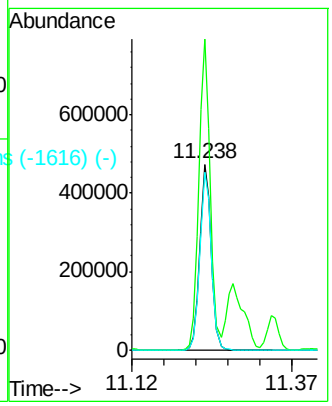
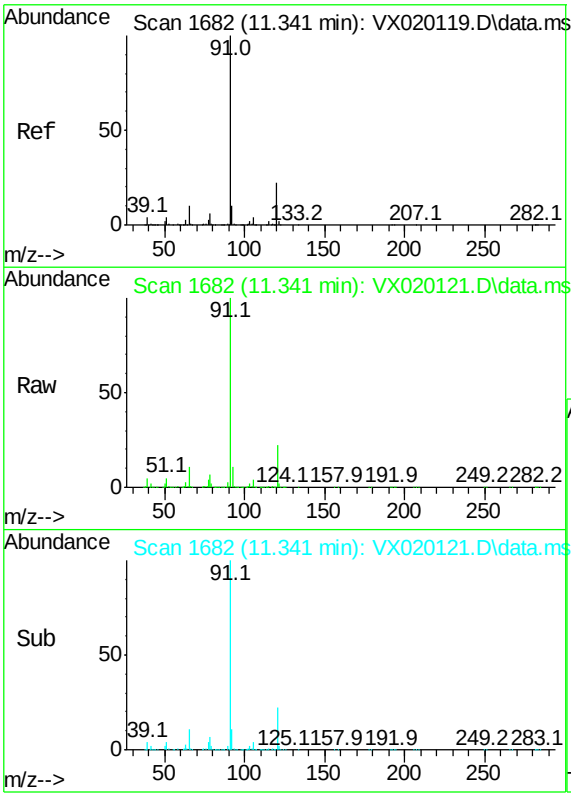


#77
Bromobenzene
Concen: 154.27 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:156 Resp: 583789

Ion	Ratio	Lower	Upper
156	100		
77	167.5	82.8	248.6
158	96.6	49.1	147.4

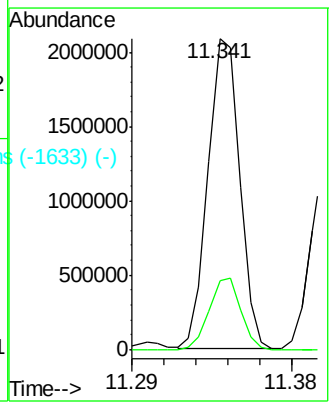




#78
n-propylbenzene
Concen: 159.34 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 91 Resp: 2665159

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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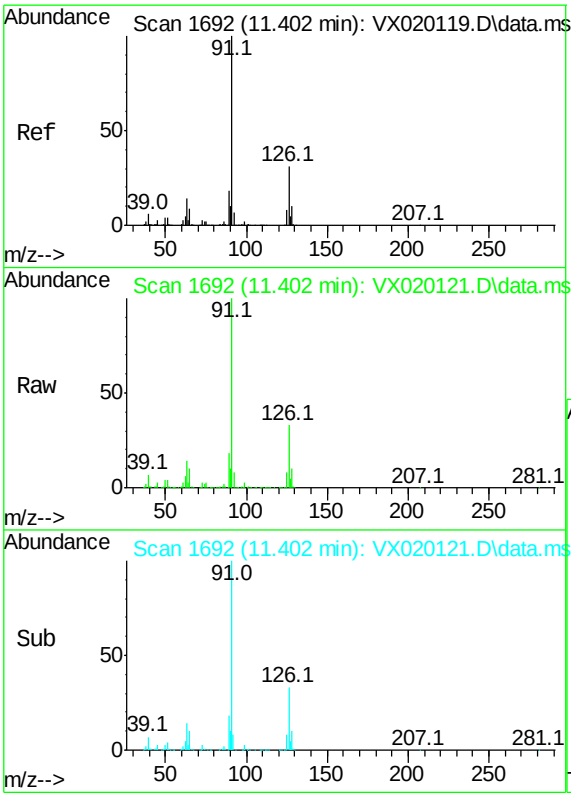
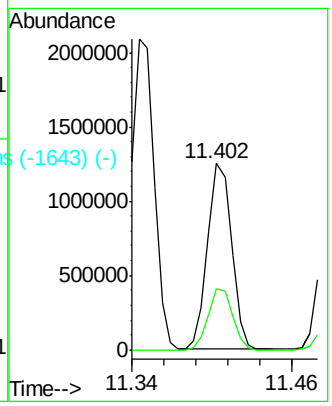
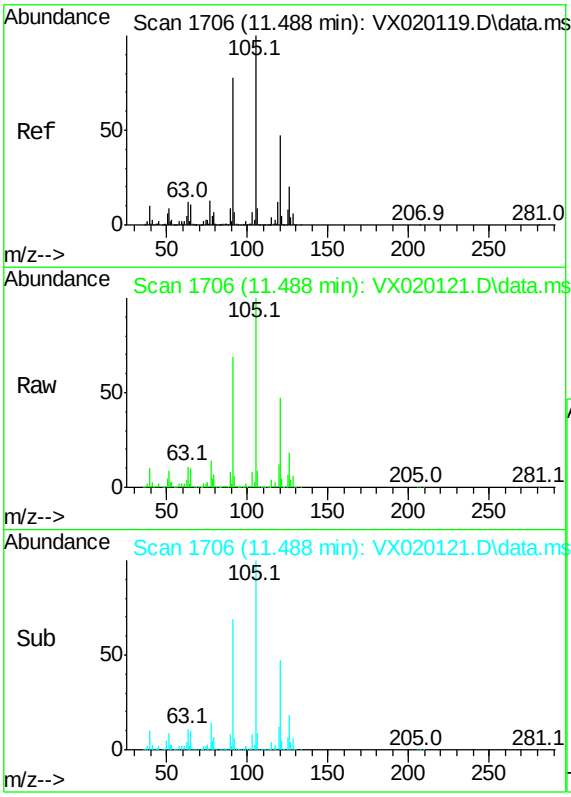


#79
2-Chlorotoluene
Concen: 155.14 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 91 Resp: 1612620

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.6	49.8

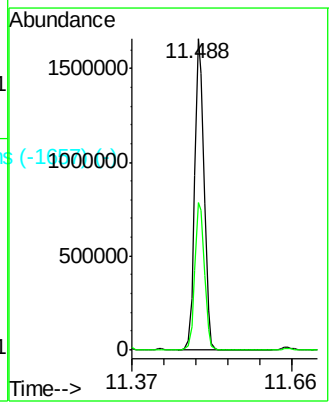




#80
1,3,5-Trimethylbenzene
Concen: 160.10 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:105 Resp: 1981934

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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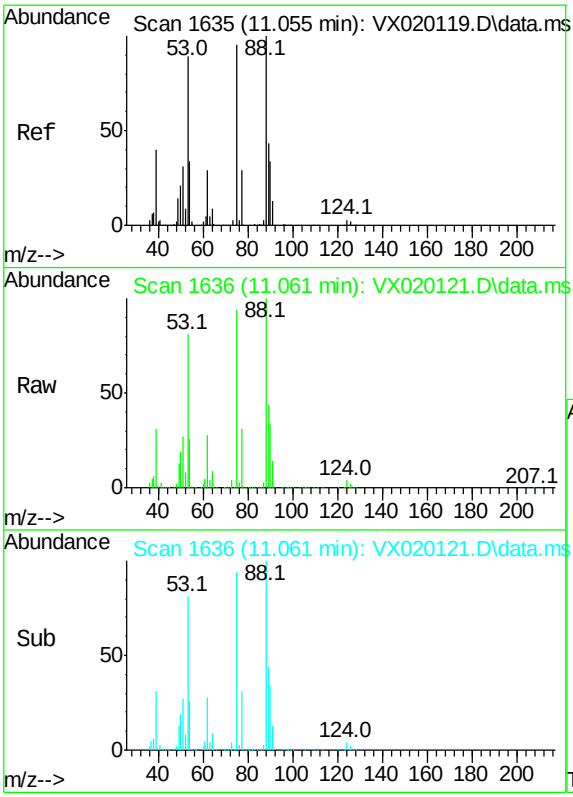
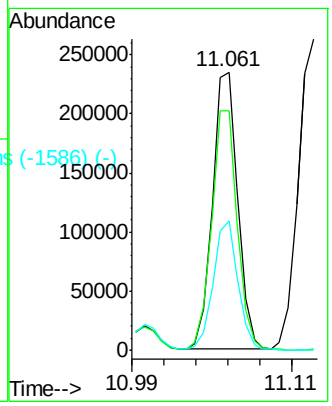
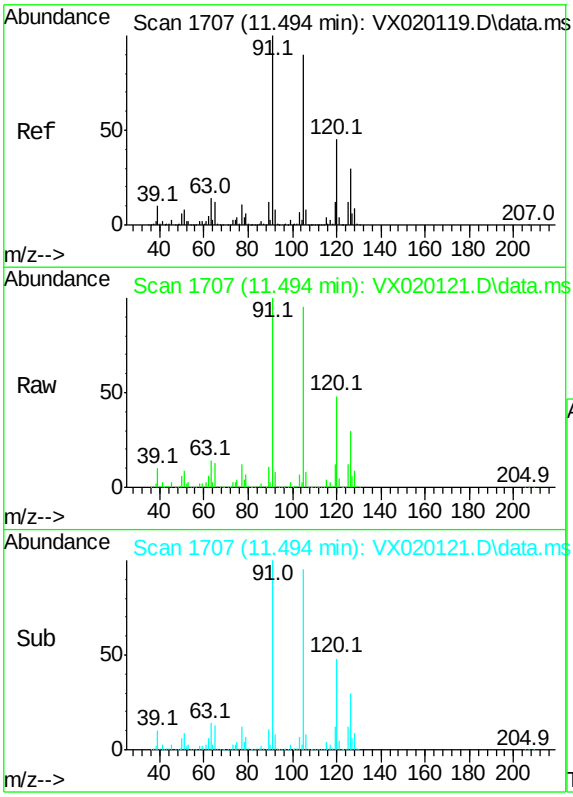


#81
trans-1,4-Dichloro-2-butene
Concen: 177.95 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 75 Resp: 299326

Ion	Ratio	Lower	Upper
75	100		
53	87.2	74.5	111.7
89	45.2	37.9	56.9

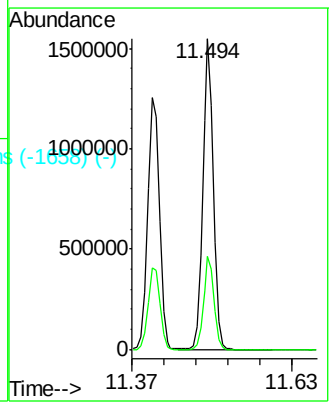




#88
4-Chlorotoluene
Concen: 156.59 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 91 Resp: 1908375

Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
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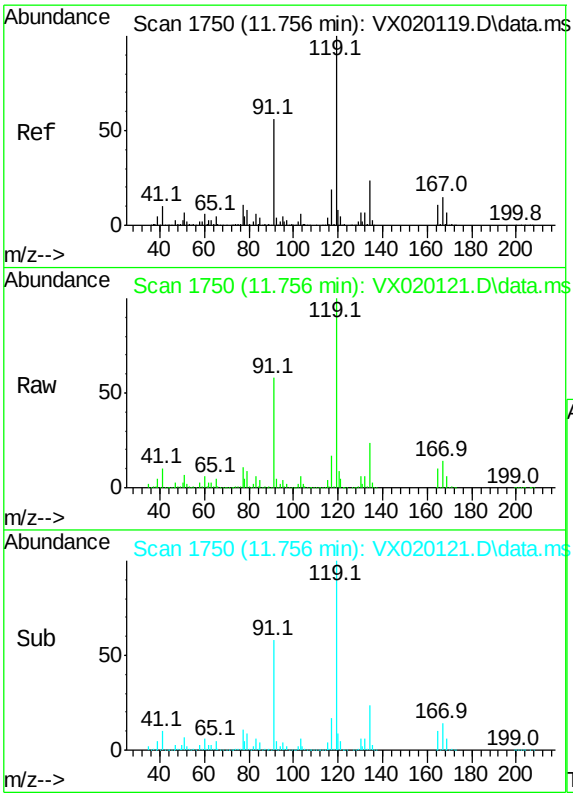
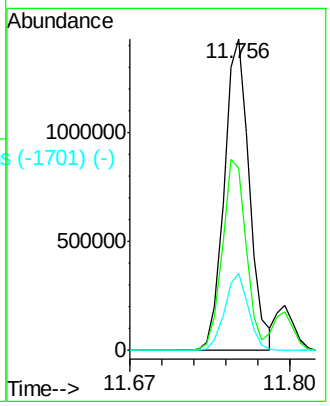
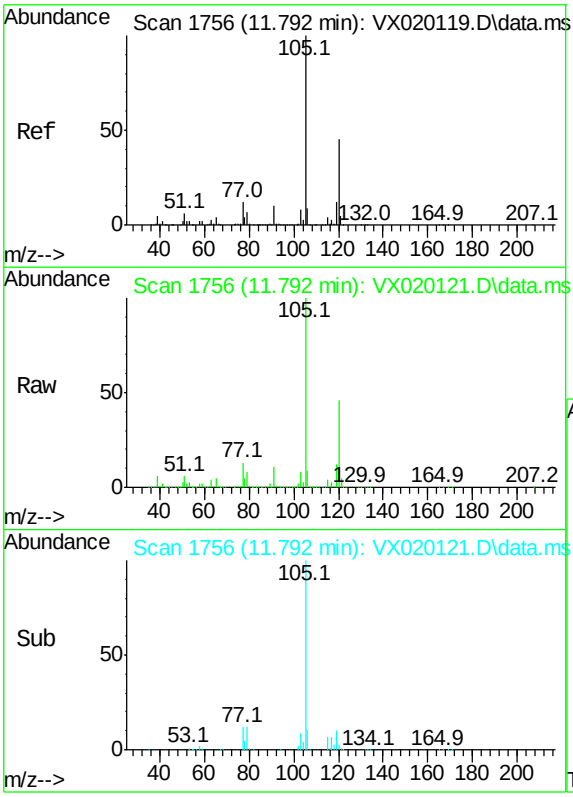


#82
tert-Butylbenzene
Concen: 161.17 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:119 Resp: 1943548

Ion	Ratio	Lower	Upper
119	100		
91	57.6	27.9	83.7
134	22.9	11.3	33.9

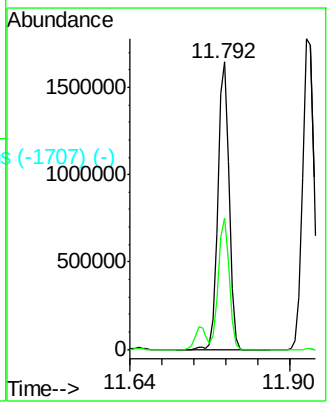




#84
1,2,4-Trimethylbenzene
Concen: 160.56 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:105 Resp: 2013268

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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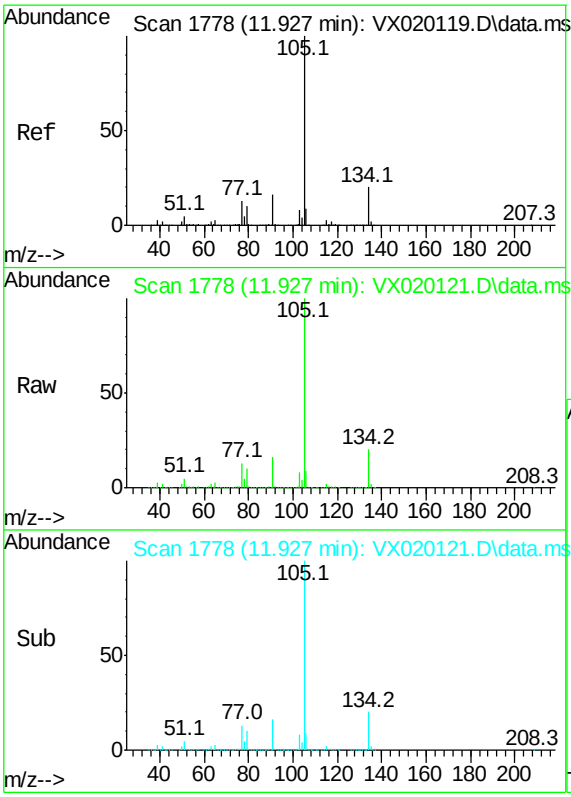
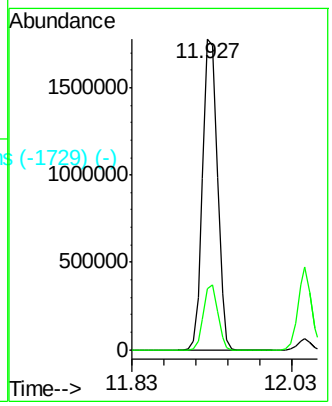
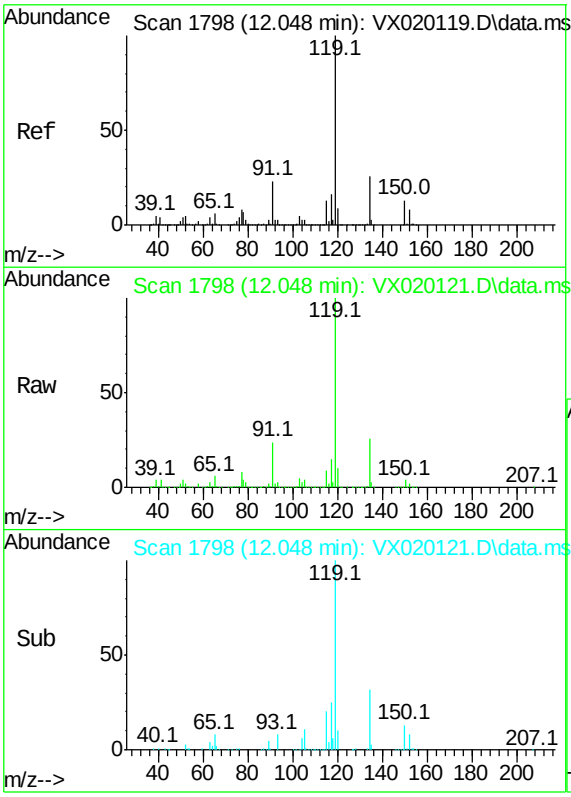


#85
sec-Butylbenzene
Concen: 166.17 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:105 Resp: 2276967

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	29.8

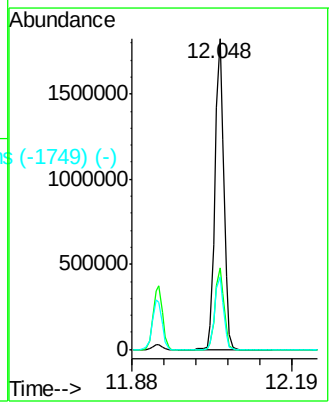




#86
p-Isopropyltoluene
Concen: 167.84 ug/l
RT: 12.048 min Scan# 1798
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

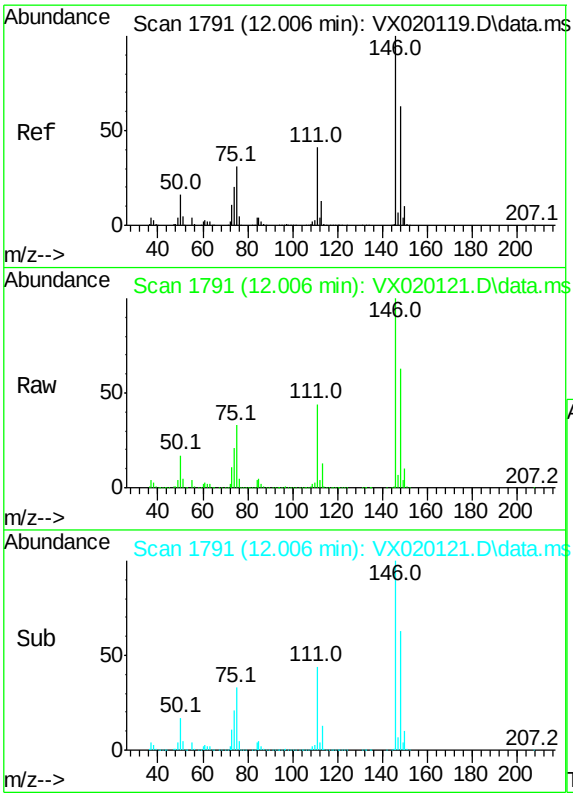
Tgt Ion:119 Resp: 2118476

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.7
91	23.9	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

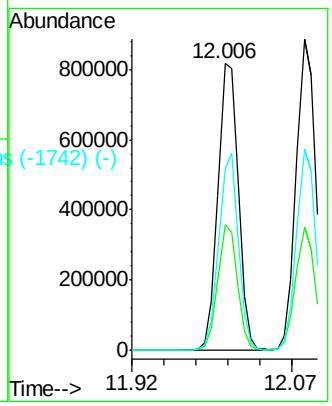
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:57:59 PM

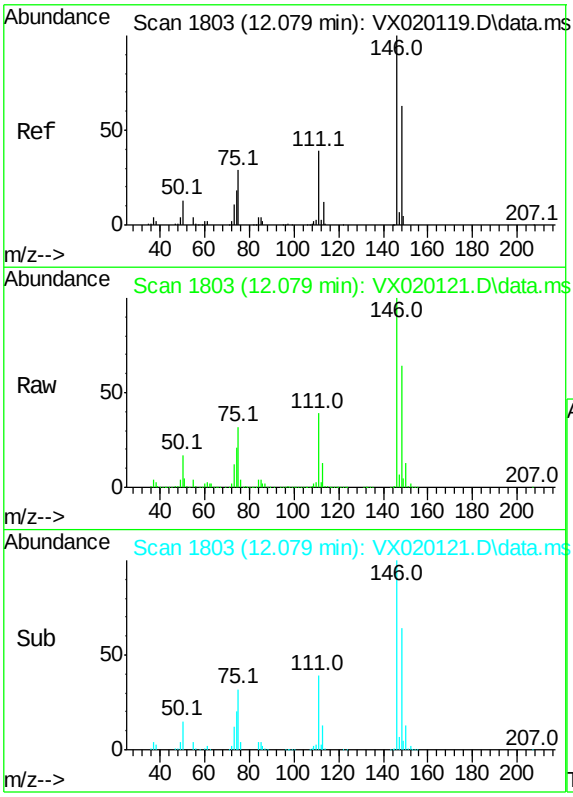


#87
1,3-Dichlorobenzene
Concen: 153.33 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:146 Resp: 1060300

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.2	60.5
148	65.5	31.9	95.7

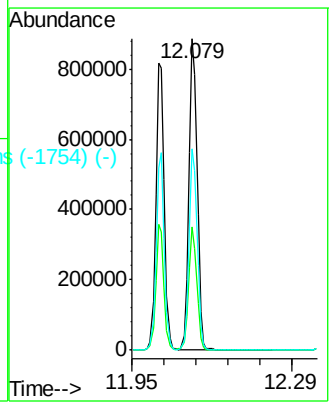




#88
1,4-Dichlorobenzene
Concen: 155.44 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:146 Resp: 1096444

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.6	58.8
148	63.5	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
MMDadoda
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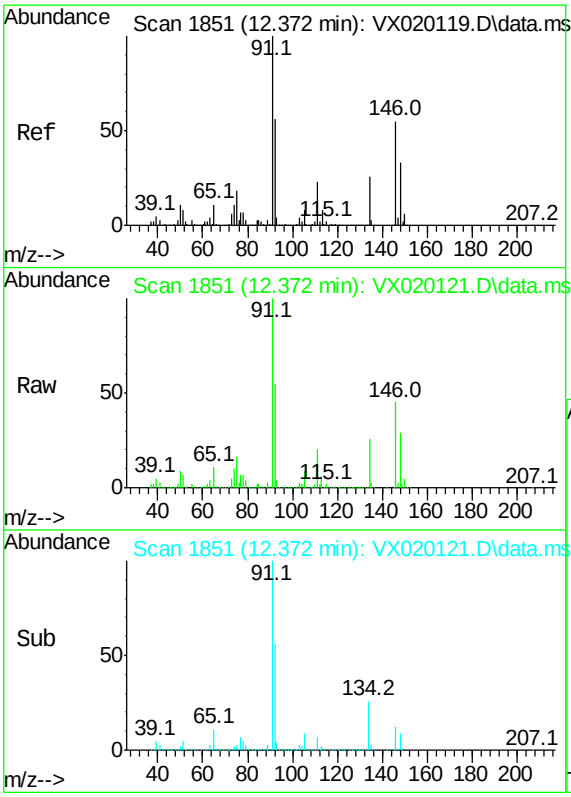
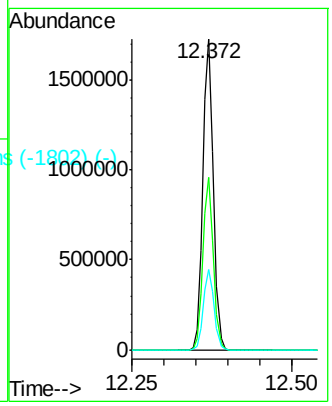
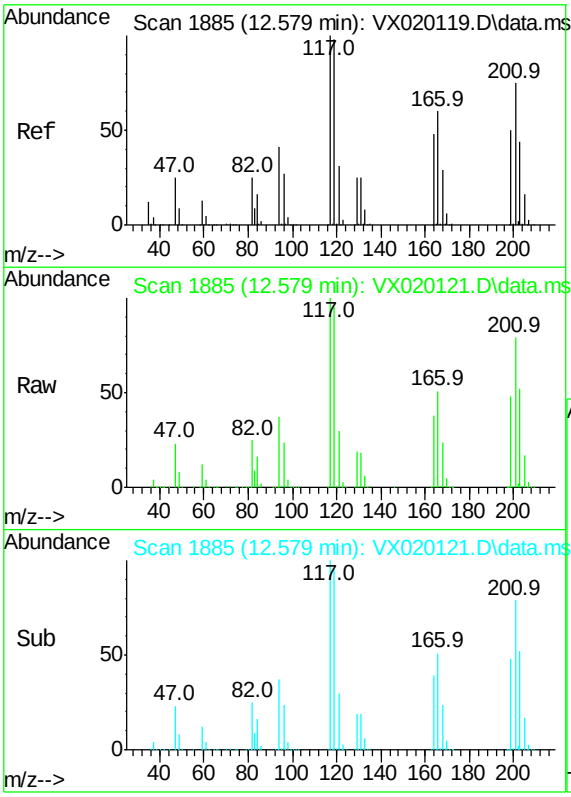


#89
n-Butylbenzene
Concen: 175.39 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 91 Resp: 1950719

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.4	82.0
134	26.0	13.2	39.5

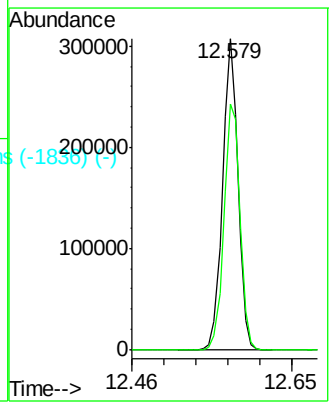




#90
Hexachloroethane
Concen: 175.82 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:117 Resp: 382793

Ion	Ratio	Lower	Upper
117	100		
201	82.4	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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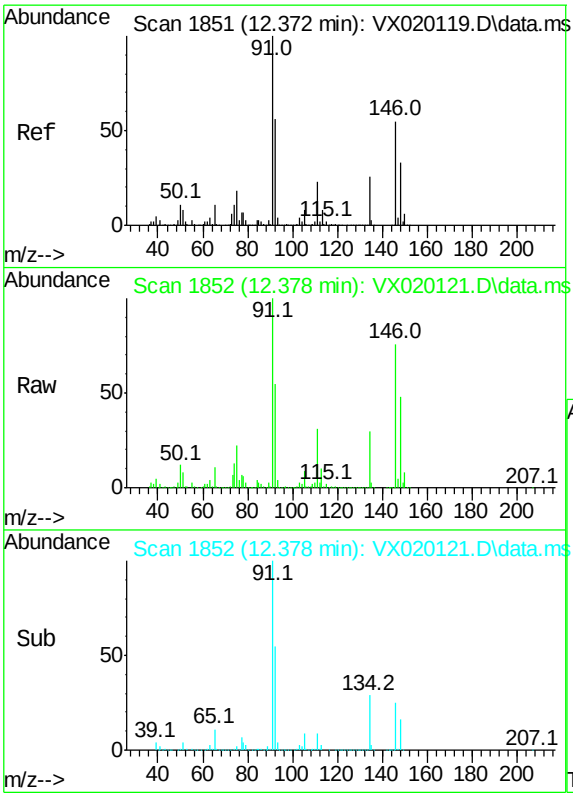
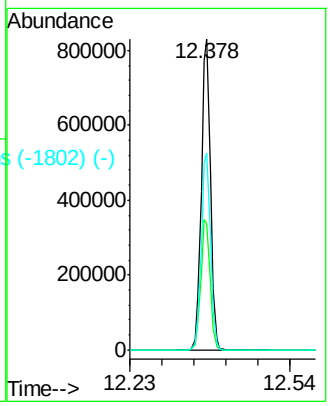
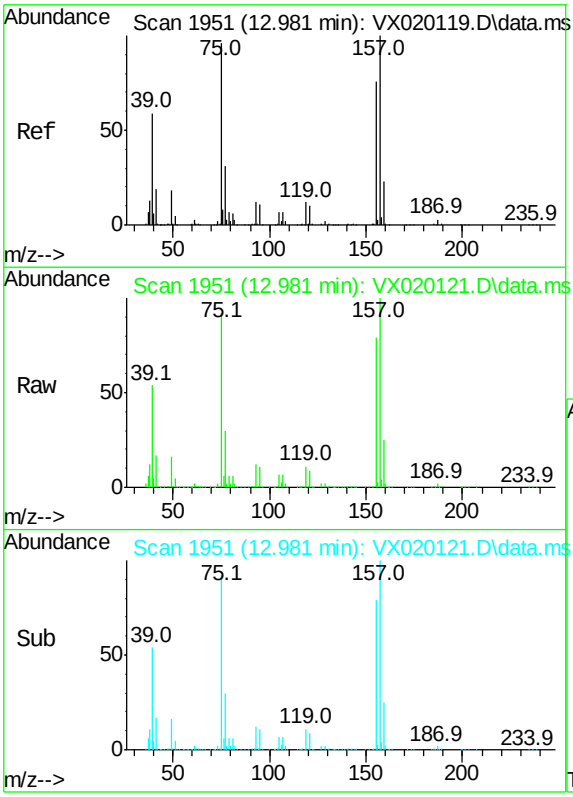


#91
1,2-Dichlorobenzene
Concen: 156.03 ug/l
RT: 12.378 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:146 Resp: 1053297

Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.8	62.2
148	63.8	31.9	95.5

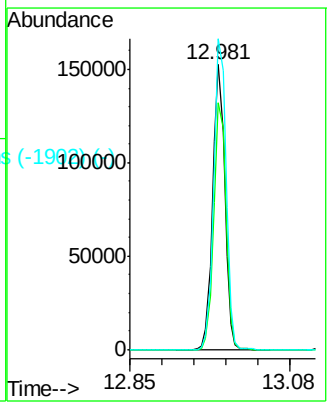




#92
1,2-Dibromo-3-Chloropropane
Concen: 163.82 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion: 75 Resp: 184917

Ion	Ratio	Lower	Upper
75	100		
155	88.0	45.3	135.9
157	111.3	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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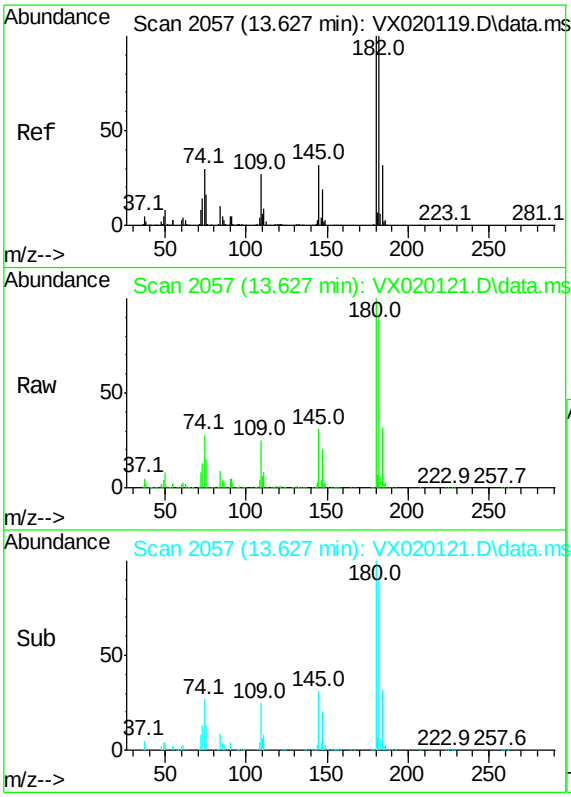
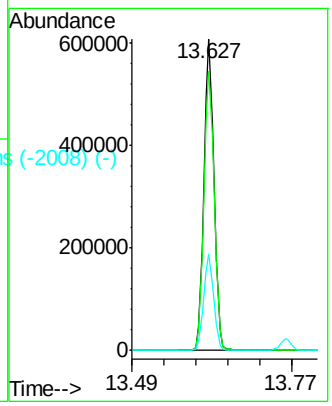
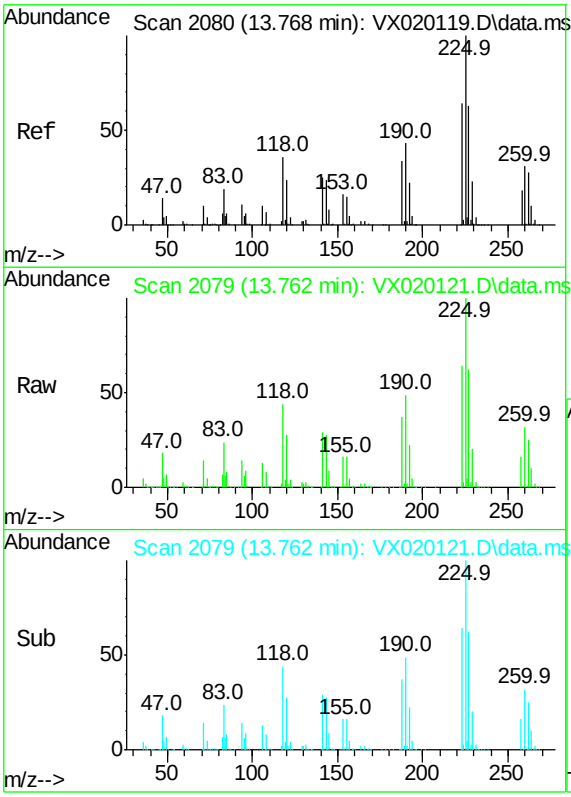


#93
1,2,4-Trichlorobenzene
Concen: 168.77 ug/l
RT: 13.627 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:180 Resp: 736909

Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.7	143.1
145	30.8	15.0	45.0

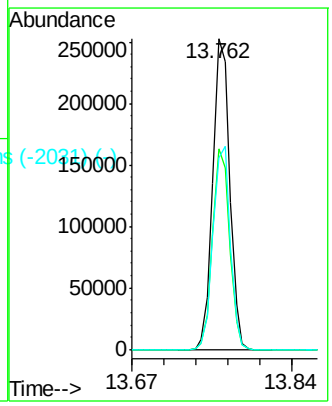




#94
Hexachlorobutadiene
Concen: 160.71 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:225 Resp: 306017

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.1	93.2
227	66.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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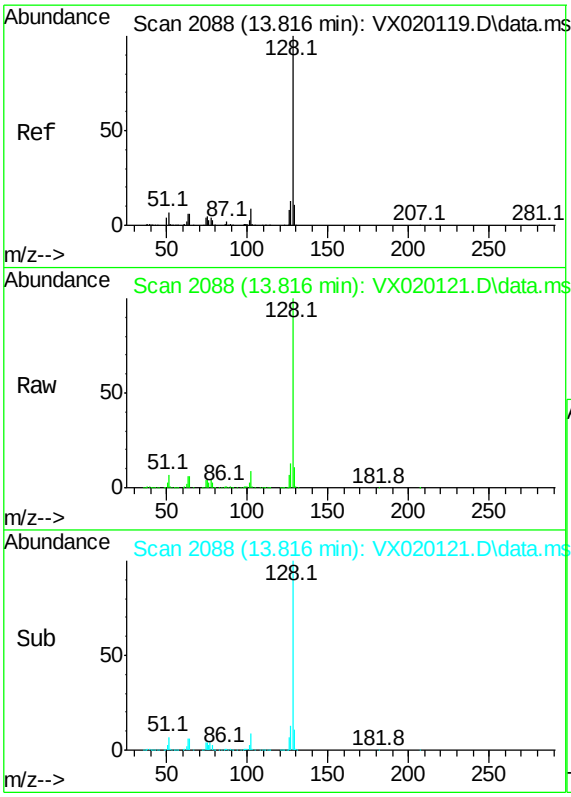
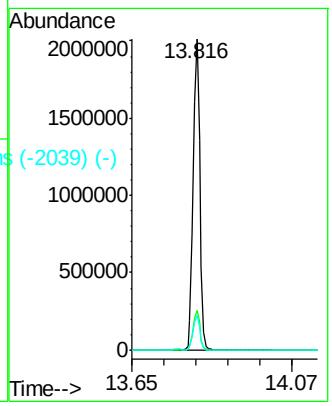
12/21/2020 3:57:59 PM

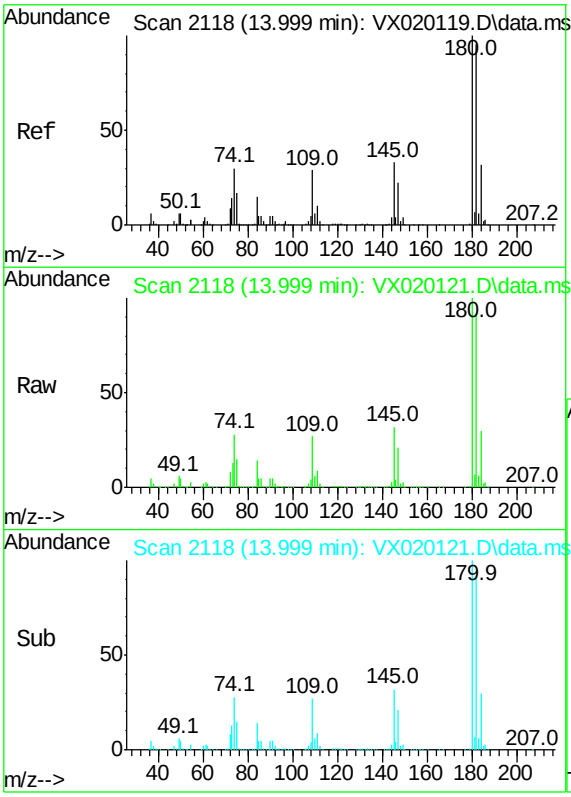


#95
Naphthalene
Concen: 169.79 ug/l
RT: 13.816 min Scan# 2088
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:128 Resp: 2424527

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.9	8.8	13.2

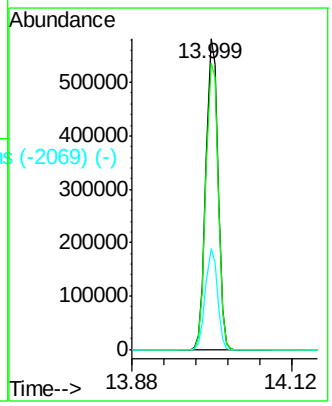




#96
1,2,3-Trichlorobenzene
Concen: 168.98 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. -0.000 min
Lab File: VX020121.D
Acq: 18 Dec 2020 12:43

Tgt Ion:180 Resp: 722433

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.6	142.9
145	32.2	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : ICVVX121820

Manual Integrations APPROVED
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12/21/2020 3:58:15 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	270469	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.824	114	433134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	406974	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	202621	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	170420	47.01	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 94.02%			
35) Dibromofluoromethane	5.458	113	137679	49.69	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.38%			
50) Toluene-d8	8.696	98	537463	50.39	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 100.78%			
62) 4-Bromofluorobenzene	11.122	95	204793	50.17	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 100.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	160210	54.54	ug/l	99
3) Chloromethane	1.313	50	171996	50.50	ug/l	99
4) Vinyl Chloride	1.392	62	188242	50.73	ug/l	99
5) Bromomethane	1.624	94	60636	51.01	ug/l	99
6) Chloroethane	1.703	64	116518	50.43	ug/l	98
7) Trichlorofluoromethane	1.910	101	248987	52.18	ug/l	98
8) Diethyl Ether	2.166	74	101891	49.07	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.361	101	145536	53.90	ug/l	98
10) Methyl Iodide	2.489	142	159770	44.31	ug/l	98
11) Tert butyl alcohol	3.014	59	182571	224.88	ug/l	100
12) 1,1-Dichloroethene	2.355	96	141078	51.06	ug/l	94
13) Acrolein	2.270	56	128104	252.52	ug/l	99
14) Allyl chloride	2.703	41	244191	49.80	ug/l	98
15) Acrylonitrile	3.111	53	450785	241.34	ug/l	99
16) Acetone	2.416	43	398269	240.90	ug/l	99
17) Carbon Disulfide	2.550	76	415522	50.91	ug/l	99
18) Methyl Acetate	2.745	43	176043	47.74	ug/l	100
19) Methyl tert-butyl Ether	3.166	73	517297	50.02	ug/l	99
20) Methylene Chloride	2.831	84	175836	47.18	ug/l	98
21) trans-1,2-Dichloroethene	3.142	96	166308	49.61	ug/l	97
22) Diisopropyl ether	3.818	45	504118	50.37	ug/l	95
23) Vinyl Acetate	3.782	43	2171653	254.59	ug/l	99
24) 1,1-Dichloroethane	3.666	63	293291	49.76	ug/l	99
25) 2-Butanone	4.629	43	598037	248.54	ug/l	100
26) 2,2-Dichloropropane	4.550	77	250065	51.41	ug/l	99
27) cis-1,2-Dichloroethene	4.562	96	188624	49.85	ug/l	100
28) Bromochloromethane	4.977	49	127271	48.48	ug/l	96
29) Tetrahydrofuran	5.086	42	370717	244.90	ug/l	99
30) Chloroform	5.172	83	296548	49.41	ug/l	100
31) Cyclohexane	5.544	56	272171	54.44	ug/l	97
32) 1,1,1-Trichloroethane	5.458	97	257840	51.52	ug/l	100
36) 1,1-Dichloropropene	5.763	75	226965	53.02	ug/l	99
37) Ethyl Acetate	4.788	43	225817	50.76	ug/l	99
38) Carbon Tetrachloride	5.751	117	220931	54.26	ug/l	99
39) Methylcyclohexane	7.440	83	281442	56.96	ug/l	99
40) Benzene	6.111	78	690890	51.85	ug/l	99
41) Methacrylonitrile	4.995	41	121927	51.44	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	6.159	62	233820	51.15	ug/l		99
43) Isopropyl Acetate	6.409	43	364308	51.87	ug/l		99
44) Trichloroethene	7.184	130	177929	51.66	ug/l		98
45) 1,2-Dichloropropane	7.488	63	173918	51.64	ug/l		99
46) Dibromomethane	7.635	93	113526	49.28	ug/l		100
47) Bromodichloromethane	7.872	83	230726	52.54	ug/l		99
48) Methyl methacrylate	7.744	41	181747	52.81	ug/l		98
49) 1,4-Dioxane	7.708	88	81378	1010.14	ug/l		99
51) 4-Methyl-2-Pentanone	8.616	43	1129297	259.73	ug/l		99
52) Toluene	8.763	92	429799	52.85	ug/l		100
53) t-1,3-Dichloropropene	9.019	75	261186	54.07	ug/l		99
54) cis-1,3-Dichloropropene	8.415	75	283490	53.45	ug/l		99
55) 1,1,2-Trichloroethane	9.195	97	170836	50.94	ug/l		98
56) Ethyl methacrylate	9.159	69	270206	55.05	ug/l		99
57) 1,3-Dichloropropane	9.348	76	293502	51.41	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.287	63	703410	270.92	ug/l		99
59) 2-Hexanone	9.470	43	876028	264.40	ug/l		99
60) Dibromochloromethane	9.561	129	177440	53.32	ug/l		98
61) 1,2-Dibromoethane	9.653	107	181267	51.76	ug/l		99
64) Tetrachloroethene	9.317	164	156103	50.91	ug/l		97
65) Chlorobenzene	10.122	112	452230	51.79	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.201	131	165999	52.98	ug/l		99
67) Ethyl Benzene	10.232	91	817810	53.58	ug/l		99
68) m/p-Xylenes	10.342	106	623939	109.50	ug/l		99
69) o-Xylene	10.683	106	294172	53.64	ug/l		99
70) Styrene	10.695	104	506946	54.68	ug/l		100
71) Bromoform	10.841	173	129548	53.39	ug/l	#	100
73) Isopropylbenzene	11.000	105	795134	54.37	ug/l		100
74) N-amyl acetate	10.878	43	317239	53.82	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.250	83	268830	50.62	ug/l		100
76) 1,2,3-Trichloropropane	11.280	75	252277m	50.55	ug/l		
77) Bromobenzene	11.238	156	197143	51.00	ug/l		98
78) n-propylbenzene	11.341	91	927940	55.06	ug/l		99
79) 2-Chlorotoluene	11.402	91	550986	52.43	ug/l		99
80) 1,3,5-Trimethylbenzene	11.488	105	678777	54.76	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.055	75	89540	53.22	ug/l		98
82) 4-Chlorotoluene	11.494	91	644987	52.55	ug/l		100
83) tert-Butylbenzene	11.756	119	647648	54.44	ug/l		97
84) 1,2,4-Trimethylbenzene	11.793	105	693431	55.11	ug/l		99
85) sec-Butylbenzene	11.927	105	767795	55.93	ug/l		99
86) p-Isopropyltoluene	12.049	119	719893	56.87	ug/l		100
87) 1,3-Dichlorobenzene	12.006	146	360937	52.23	ug/l		99
88) 1,4-Dichlorobenzene	12.079	146	360552	50.01	ug/l		99
89) n-Butylbenzene	12.372	91	639029	57.62	ug/l		100
90) Hexachloroethane	12.579	117	121417	55.60	ug/l		98
91) 1,2-Dichlorobenzene	12.372	146	347869	50.59	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	58406	52.41	ug/l		95
93) 1,2,4-Trichlorobenzene	13.628	180	235437	53.24	ug/l		99
94) Hexachlorobutadiene	13.762	225	104603	56.01	ug/l		98
95) Naphthalene	13.817	128	775486	55.38	ug/l		100
96) 1,2,3-Trichlorobenzene	13.999	180	232808	53.22	ug/l		100

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

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

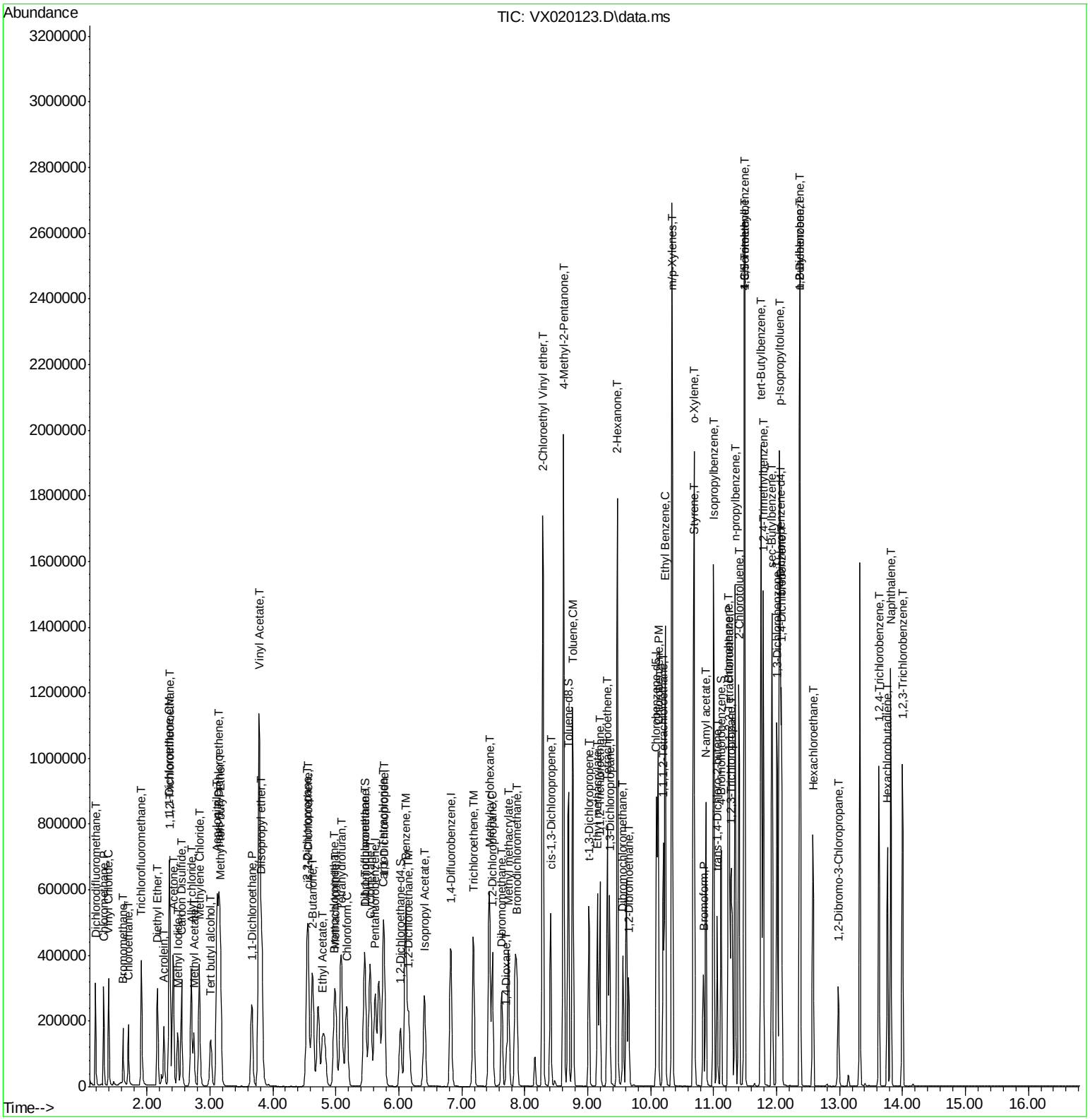
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

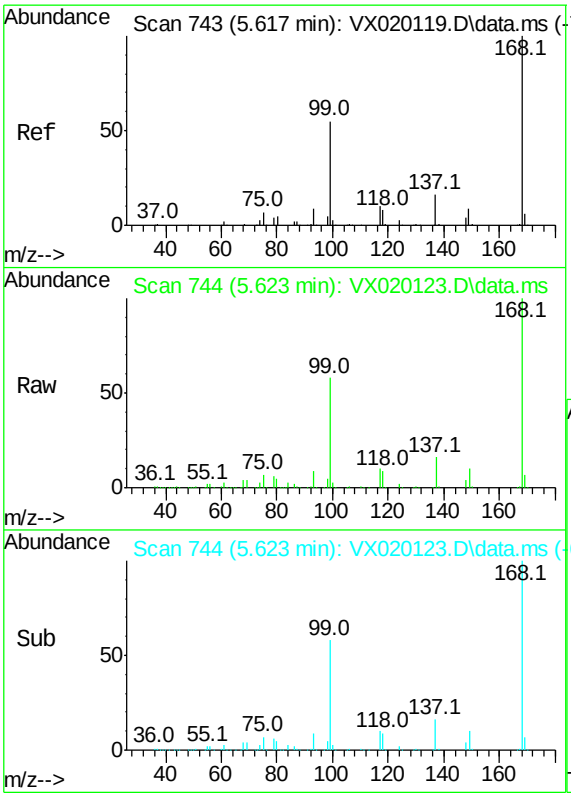
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

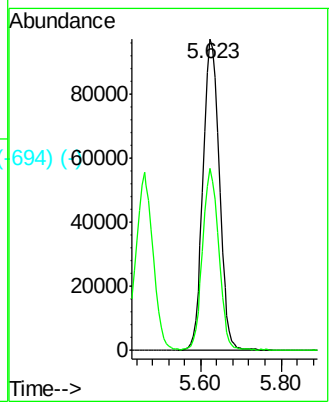
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

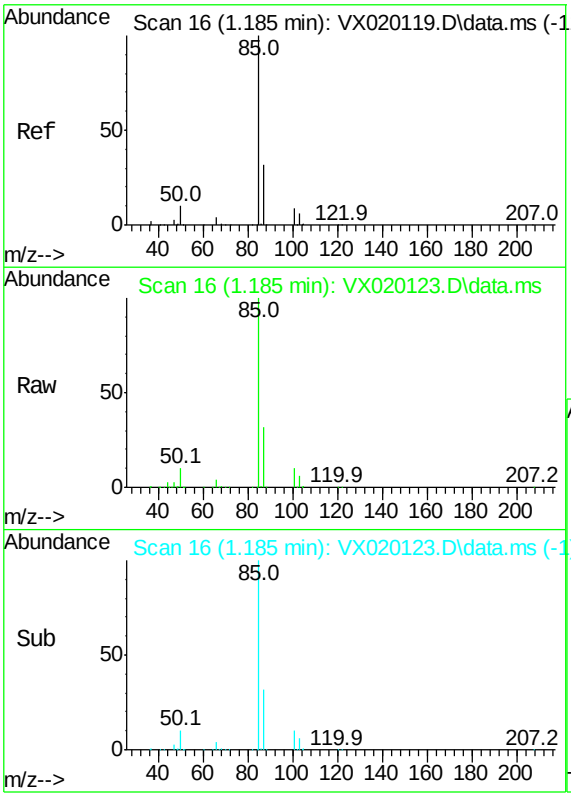


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 744
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:168 Resp: 270469

Ion	Ratio	Lower	Upper
168	100		
99	58.4	45.8	68.6

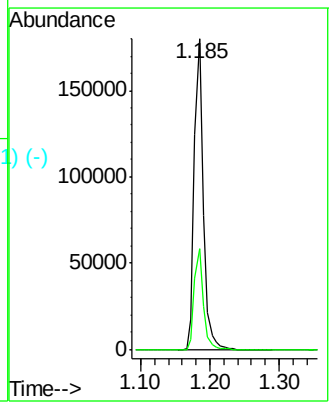




#2
Dichlorodifluoromethane
Concen: 54.54 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

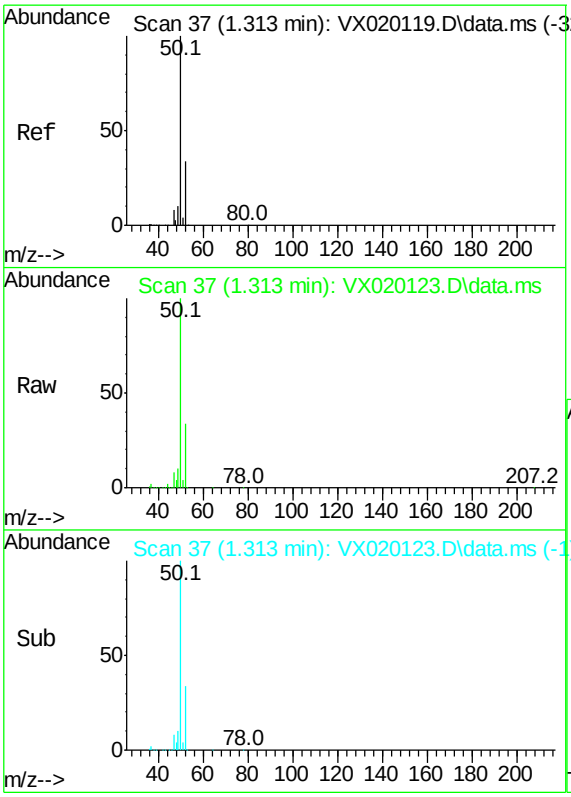
Tgt Ion: 85 Resp: 160210

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

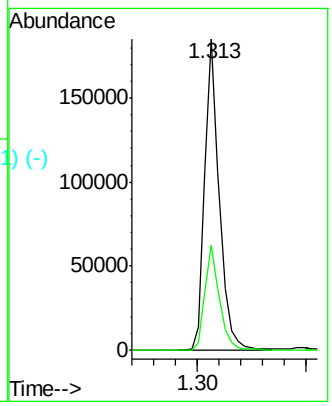
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

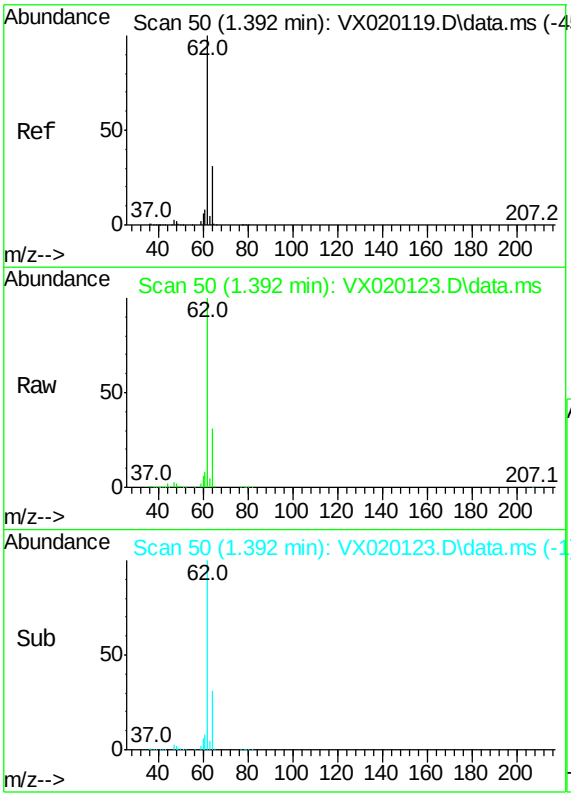


#3
Chloromethane
Concen: 50.50 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 50 Resp: 171996

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.4	39.6

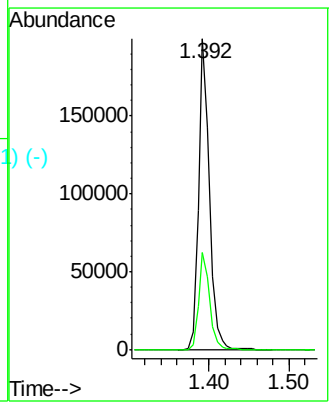




#4
Vinyl Chloride
Concen: 50.73 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

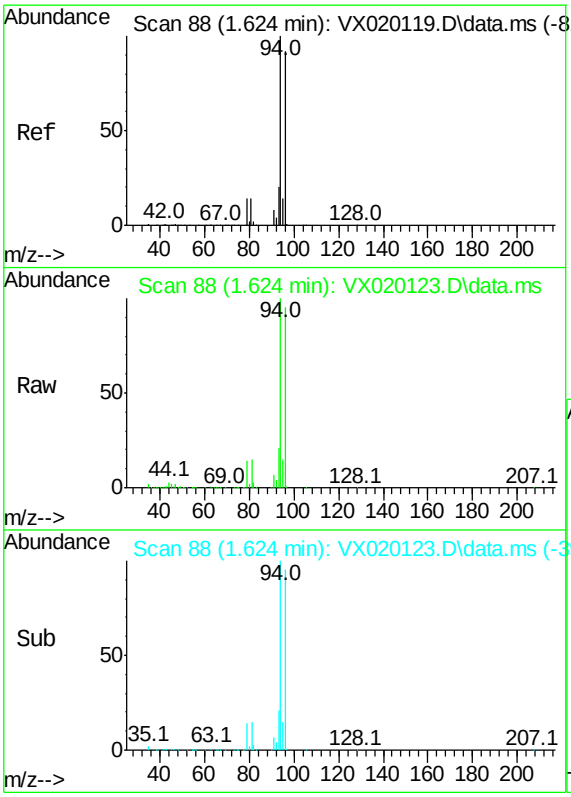
Tgt Ion: 62 Resp: 188242

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

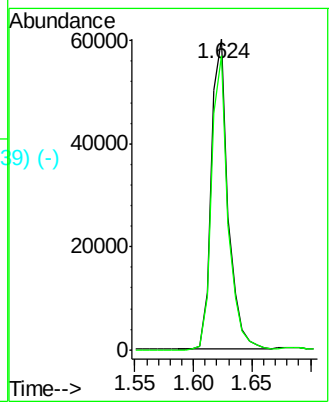
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

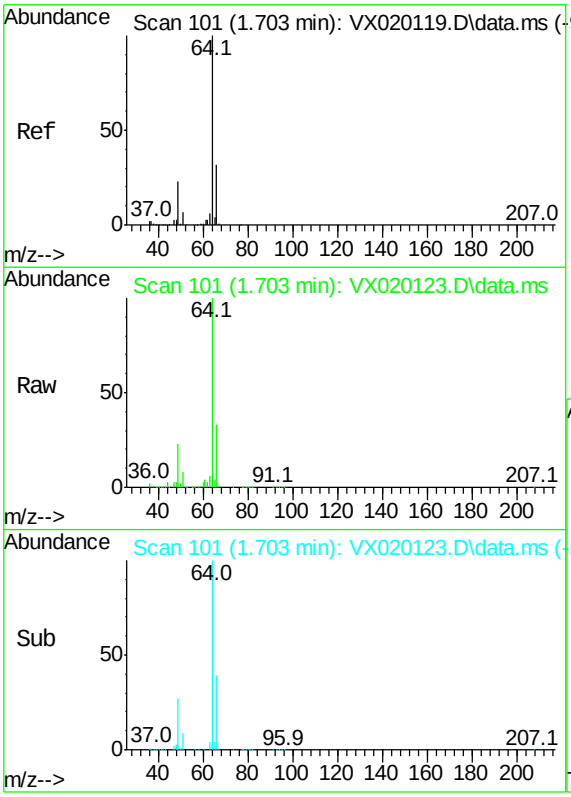


#5
Bromomethane
Concen: 51.01 ug/l
RT: 1.624 min Scan# 88
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 94 Resp: 60636

Ion	Ratio	Lower	Upper
94	100		
96	94.8	76.4	114.6

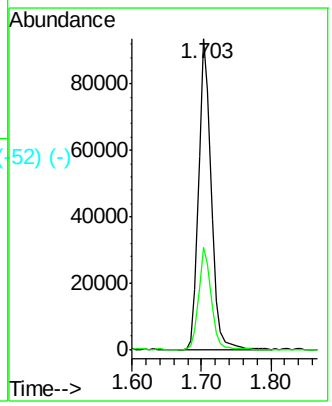




#6
Chloroethane
Concen: 50.43 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 64 Resp: 116518

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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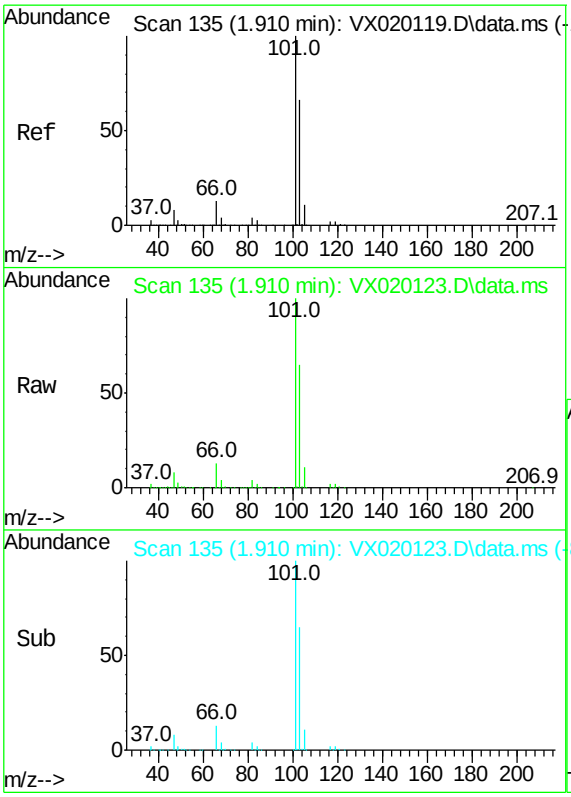
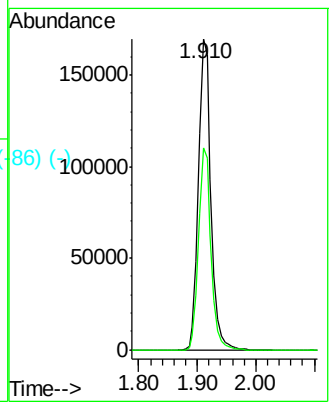
12/21/2020 3:58:15 PM

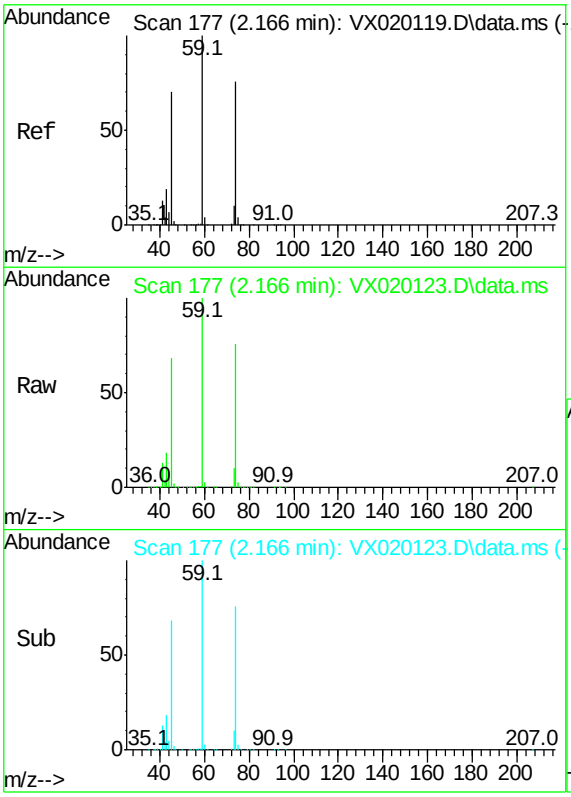


#7
Trichlorofluoromethane
Concen: 52.18 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:101 Resp: 248987

Ion	Ratio	Lower	Upper
101	100		
103	65.0	53.2	79.8

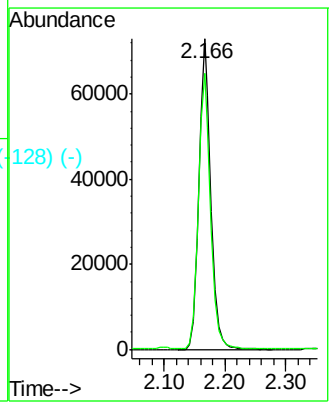




#8
Diethyl Ether
Concen: 49.07 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

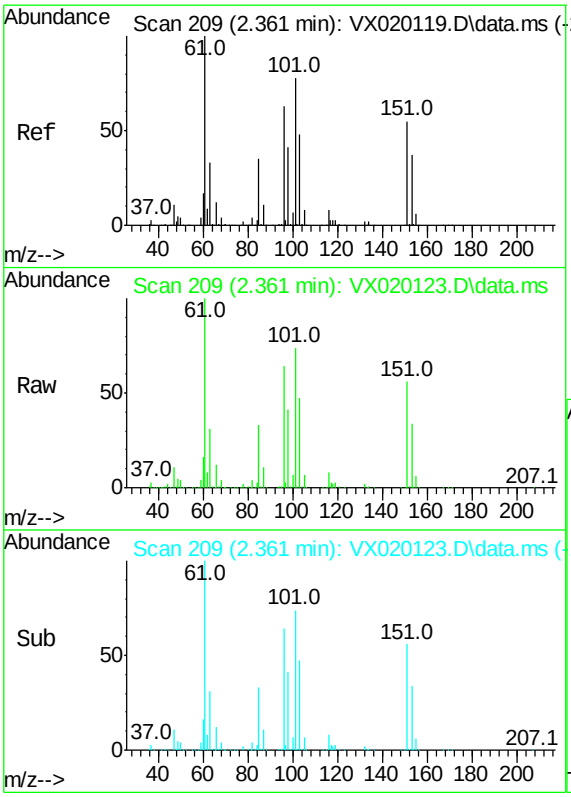
Tgt Ion: 74 Resp: 101891

Ion	Ratio	Lower	Upper
74	100		
45	90.8	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

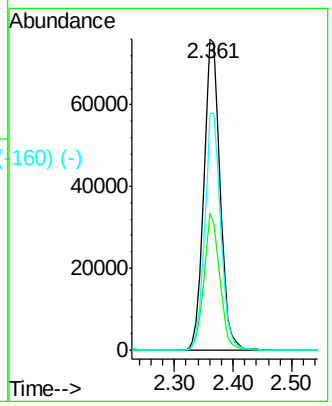
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

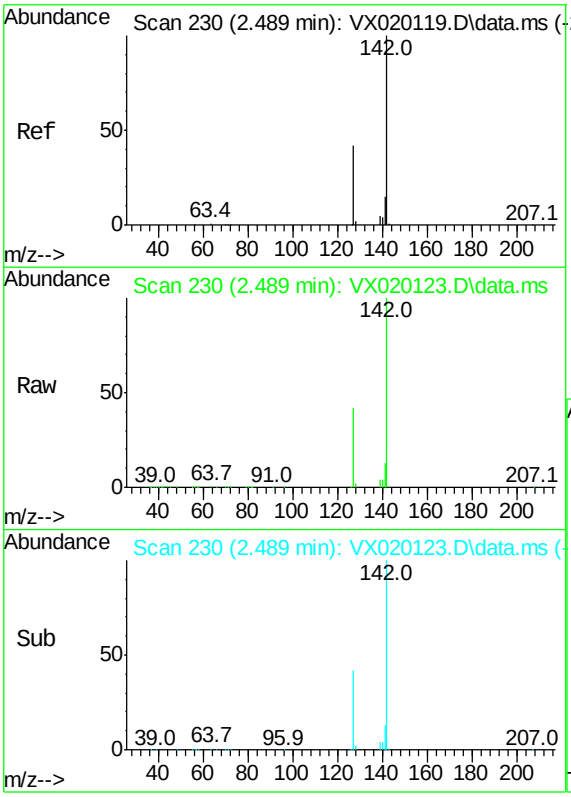


#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.90 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:101 Resp: 145536

Ion	Ratio	Lower	Upper
101	100		
85	42.7	34.9	52.3
151	75.0	61.4	92.2

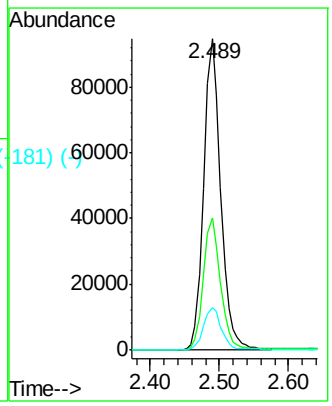




#10
Methyl Iodide
Concen: 44.31 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

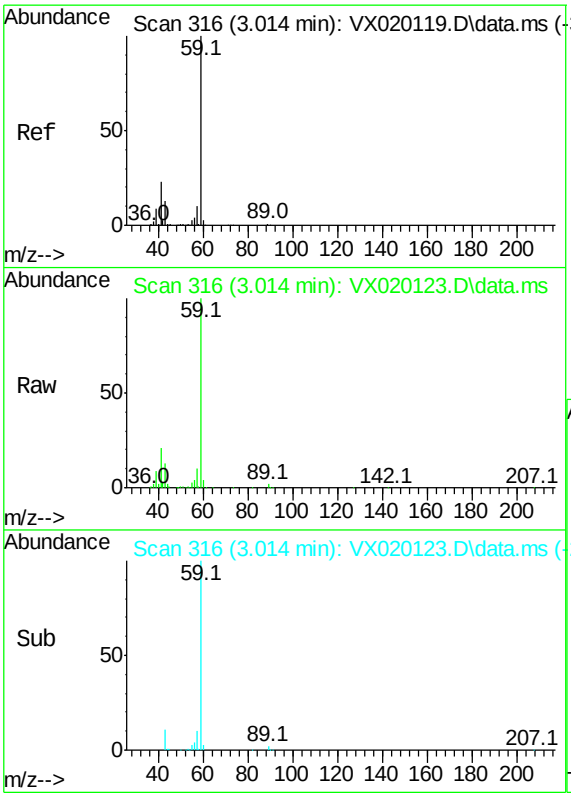
Tgt Ion:142 Resp: 159770

Ion	Ratio	Lower	Upper
142	100		
127	42.9	33.3	49.9
141	14.2	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

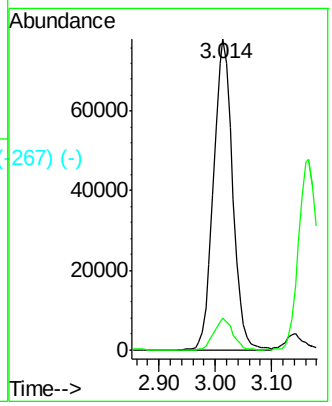
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

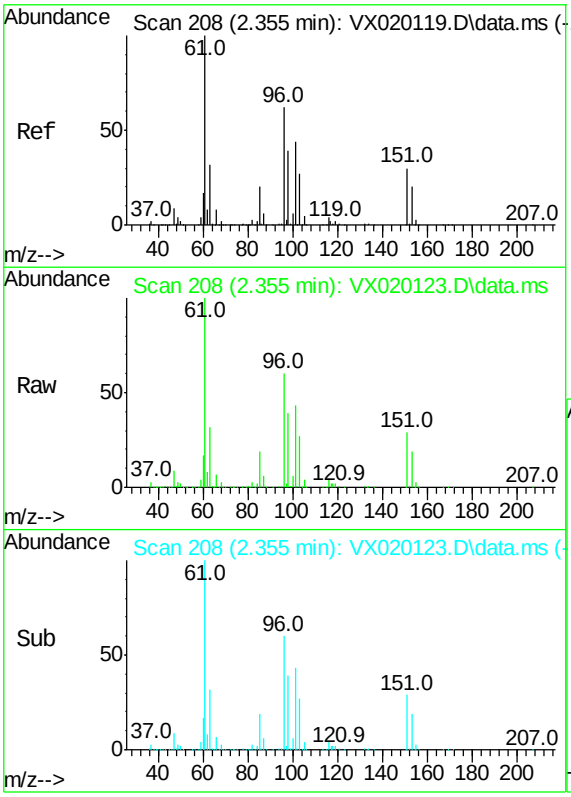


#11
Tert butyl alcohol
Concen: 224.88 ug/l
RT: 3.014 min Scan# 316
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 59 Resp: 182571

Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.8	11.8

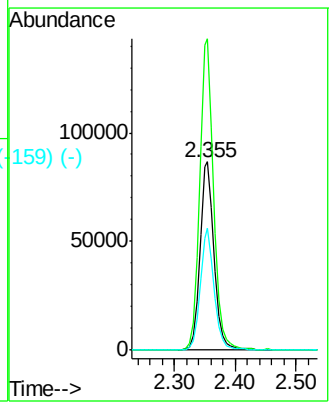




#12
1,1-Dichloroethene
Concen: 51.06 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 96 Resp: 141078

Ion	Ratio	Lower	Upper
96	100		
61	165.5	124.6	187.0
98	64.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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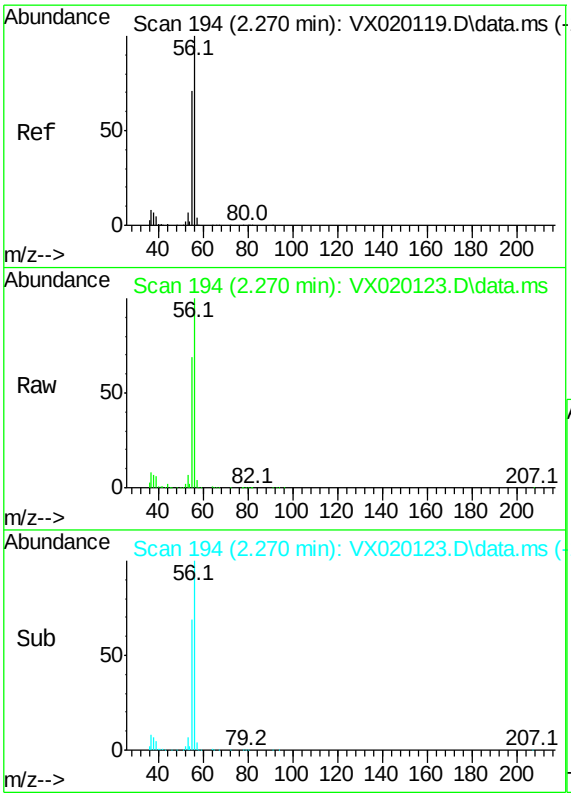
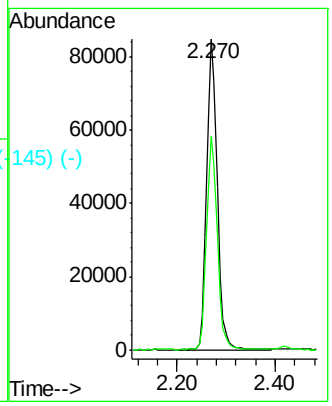
12/21/2020 3:58:15 PM

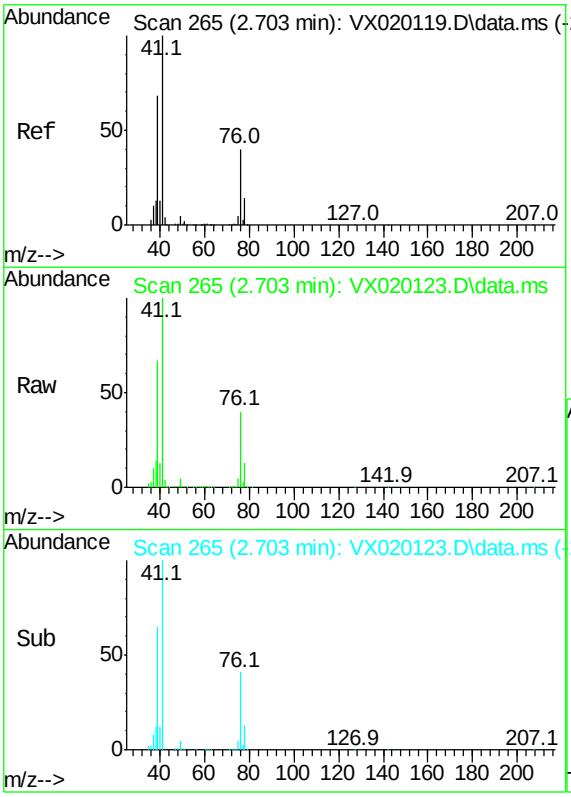


#13
Acrolein
Concen: 252.52 ug/l
RT: 2.270 min Scan# 194
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 56 Resp: 128104

Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.4	84.6

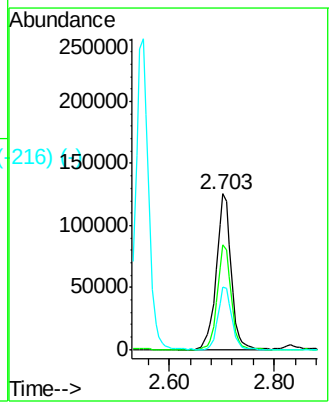




#14
Allyl chloride
Concen: 49.80 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

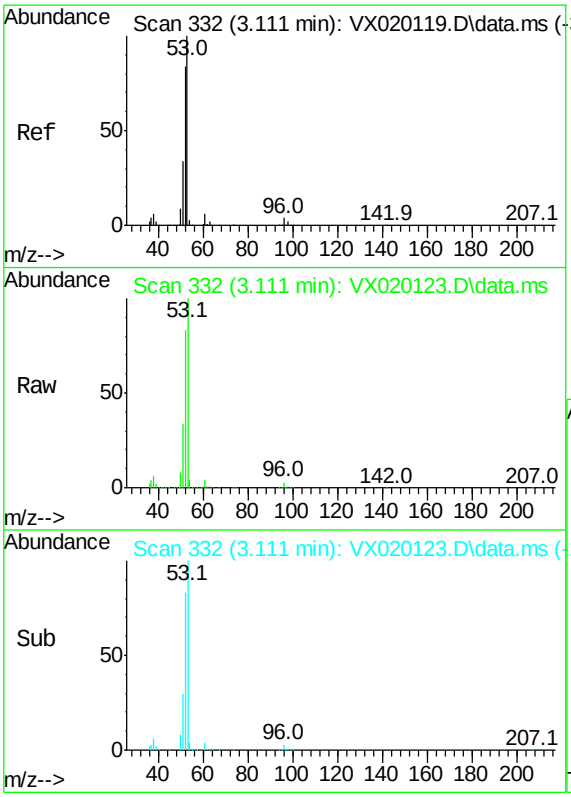
Tgt Ion: 41 Resp: 244191

Ion	Ratio	Lower	Upper
41	100		
39	62.5	51.6	77.4
76	36.9	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

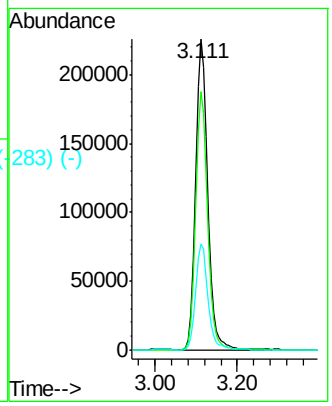
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

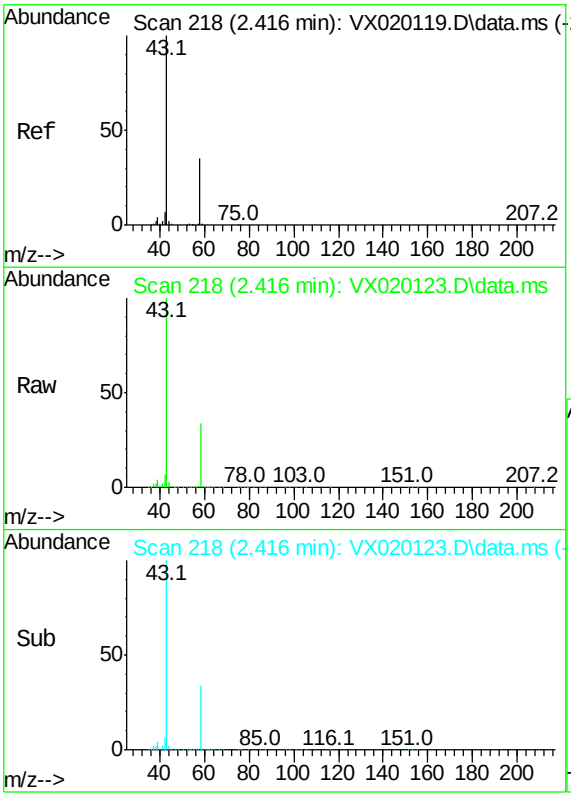


#15
Acrylonitrile
Concen: 241.34 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 53 Resp: 450785

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.3	97.9
51	35.0	28.2	42.2

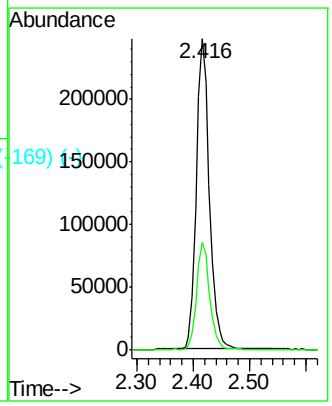




#16
Acetone
Concen: 240.90 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

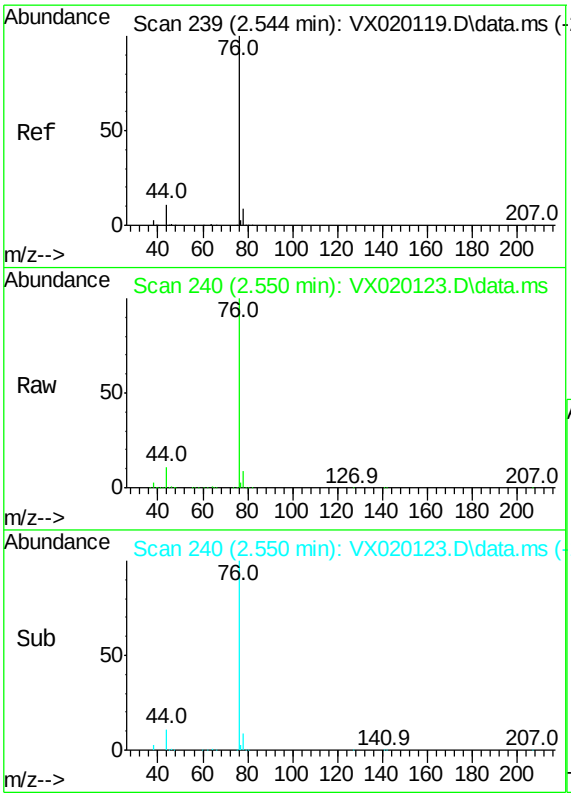
Tgt Ion: 43 Resp: 398269

Ion	Ratio	Lower	Upper
43	100		
58	34.4	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

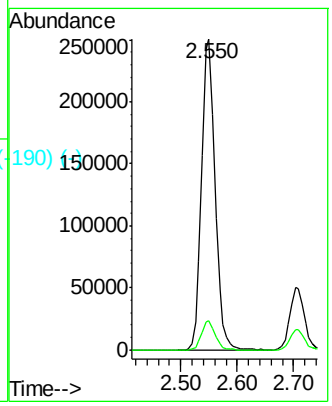
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

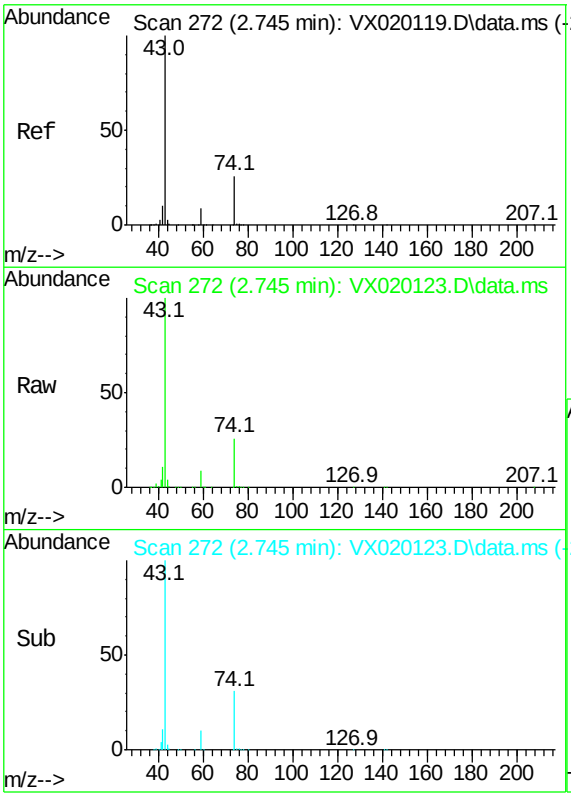


#17
Carbon Disulfide
Concen: 50.91 ug/l
RT: 2.550 min Scan# 240
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 76 Resp: 415522

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

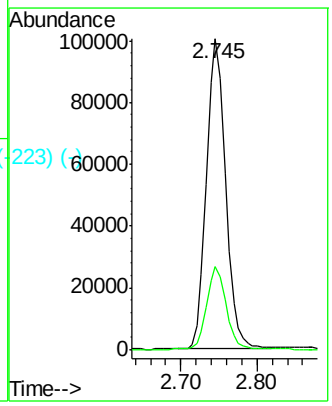




#18
Methyl Acetate
Concen: 47.74 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 43 Resp: 176043

Ion	Ratio	Lower	Upper
43	100		
74	27.2	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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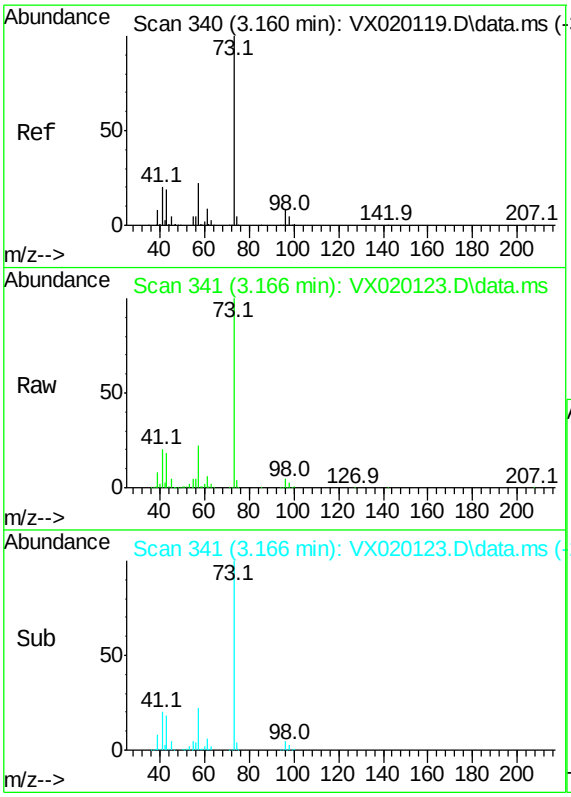
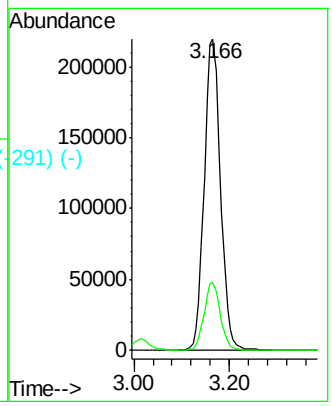
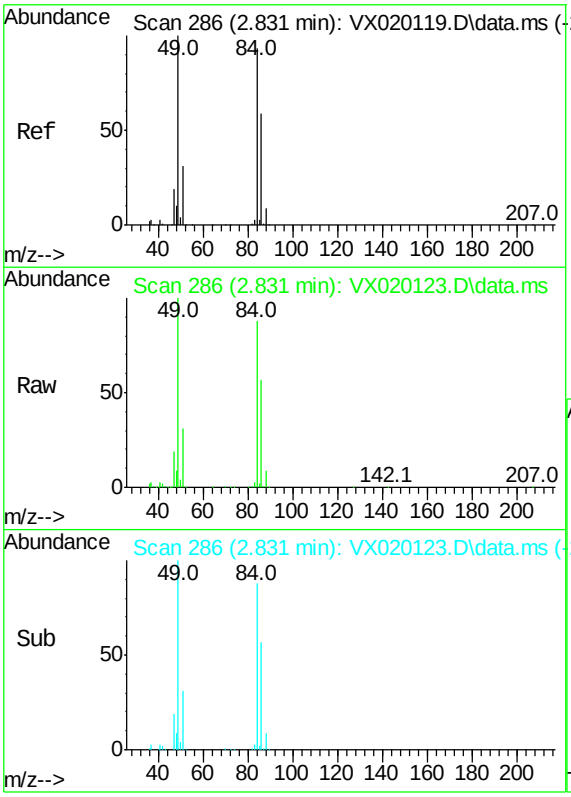


#19
Methyl tert-butyl Ether
Concen: 50.02 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 73 Resp: 517297

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7

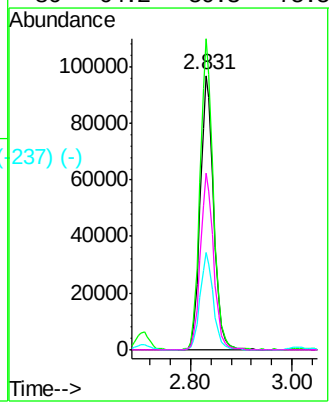




#20
Methylene Chloride
Concen: 47.18 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 84 Resp: 175836

Ion	Ratio	Lower	Upper
84	100		
49	113.4	88.6	132.8
51	35.2	27.0	40.6
86	64.2	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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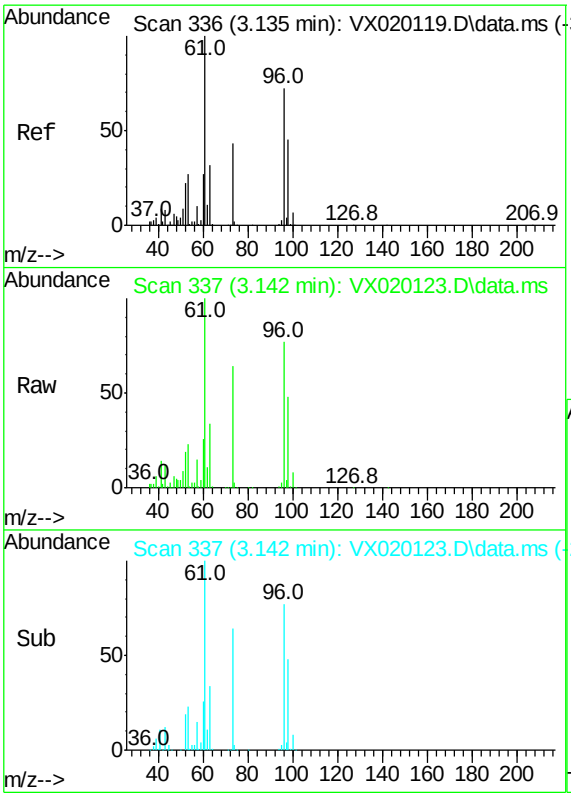
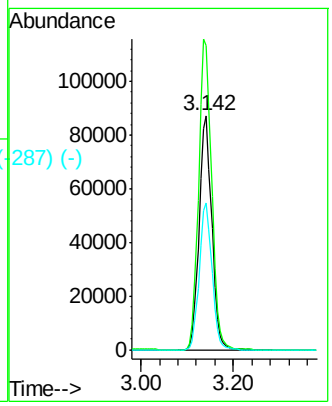
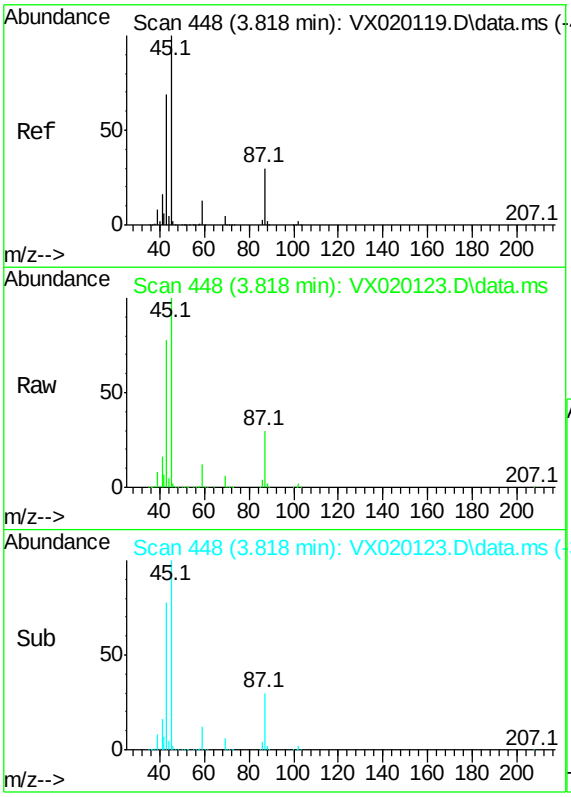


#21
trans-1,2-Dichloroethene
Concen: 49.61 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 96 Resp: 166308

Ion	Ratio	Lower	Upper
96	100		
61	129.7	107.7	161.5
98	62.6	50.4	75.6

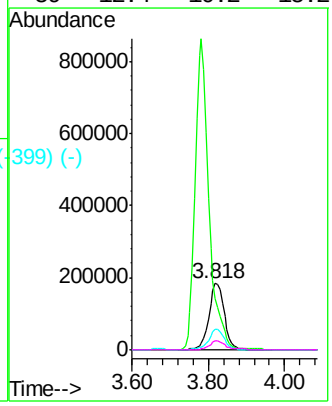




#22
Diisopropyl ether
Concen: 50.37 ug/l
RT: 3.818 min Scan# 448
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 45 Resp: 504118

Ion	Ratio	Lower	Upper
45	100		
43	77.7	58.0	87.0
87	29.8	25.4	38.0
59	12.4	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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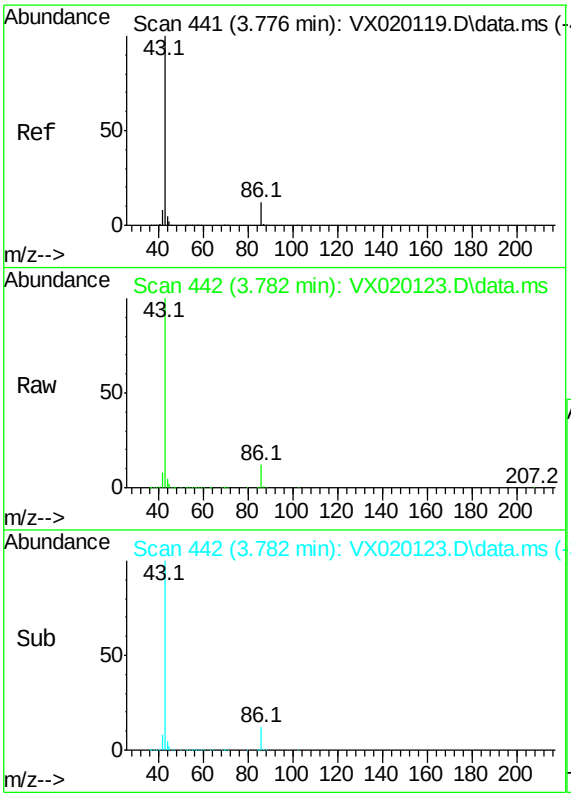
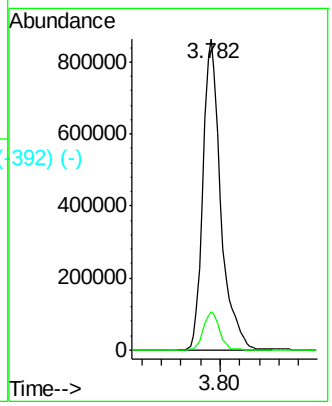
12/21/2020 3:58:15 PM

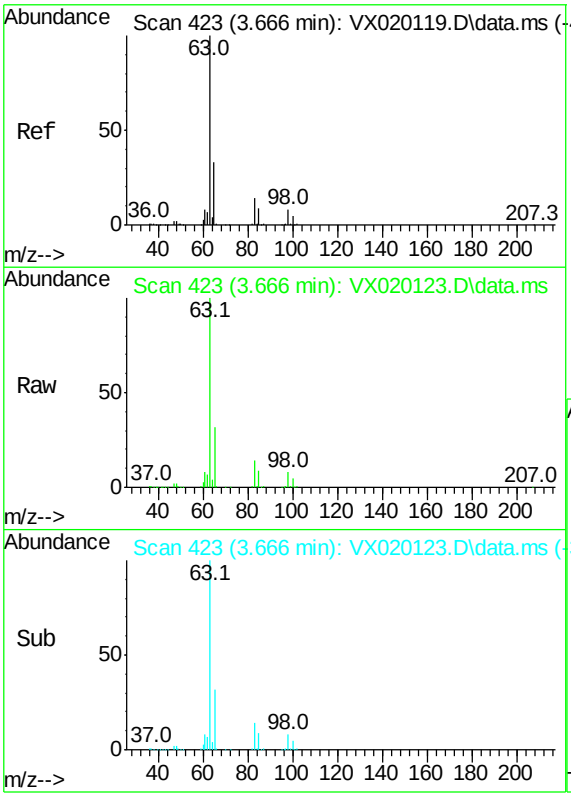


#23
Vinyl Acetate
Concen: 254.59 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 43 Resp: 2171653

Ion	Ratio	Lower	Upper
43	100		
86	12.2	9.9	14.9

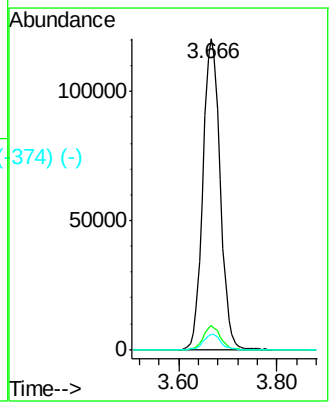




#24
1,1-Dichloroethane
Concen: 49.76 ug/l
RT: 3.666 min Scan# 423
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 63 Resp: 293291

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.8	11.2
100	4.8	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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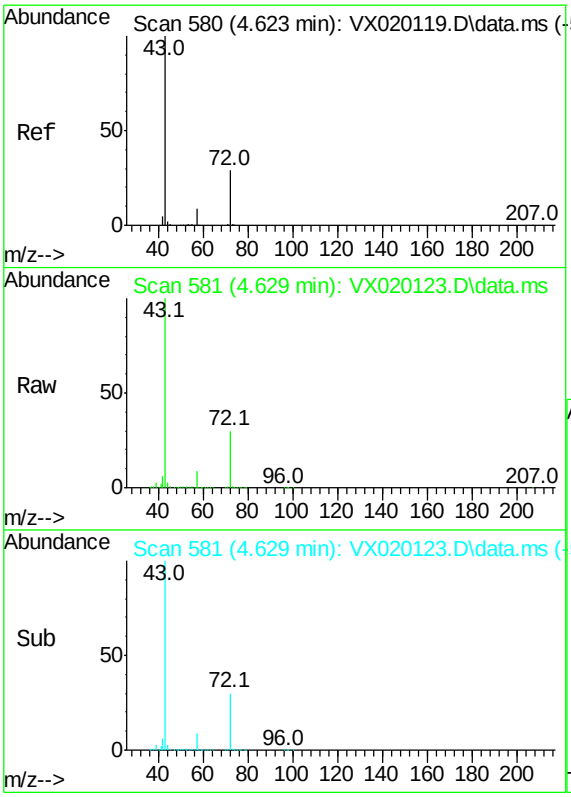
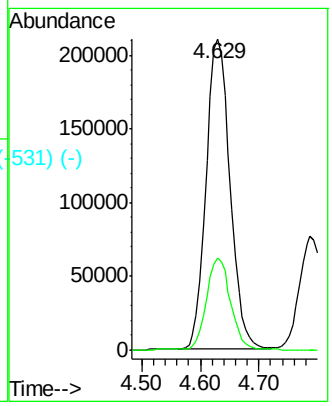
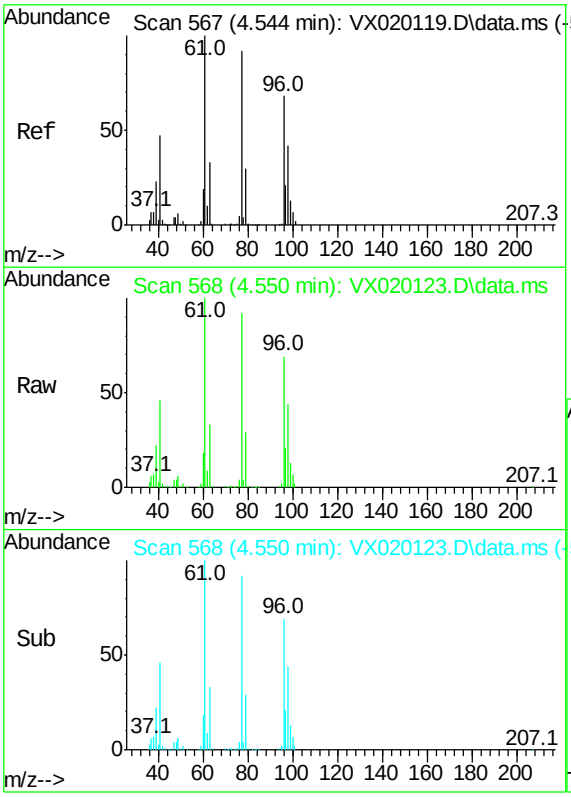


#25 (-)
2-Butanone
Concen: 248.54 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 43 Resp: 598037

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.7	35.5

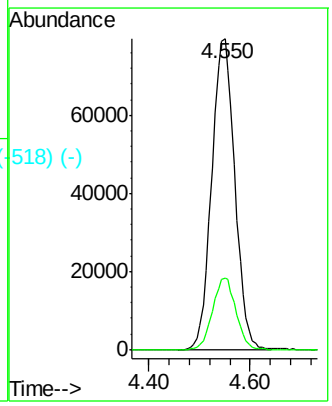




#26 (-)
2,2-Dichloropropane
Concen: 51.41 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 77 Resp: 250065

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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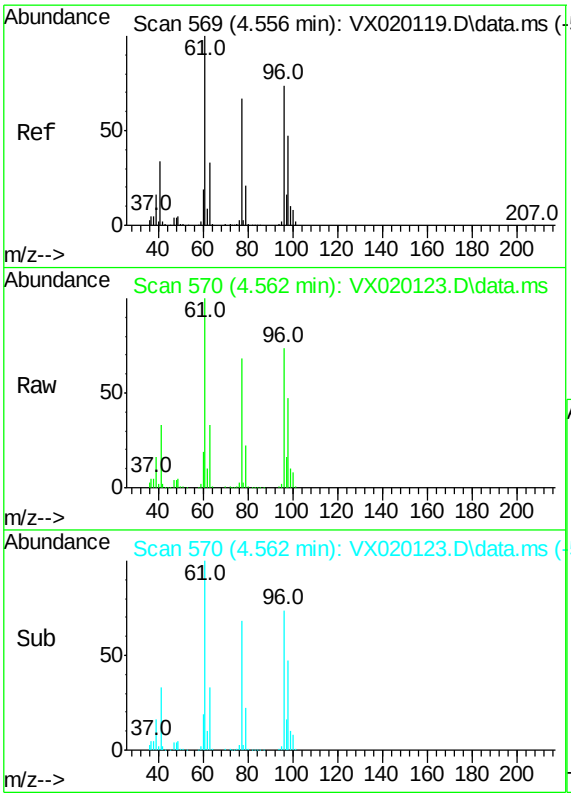
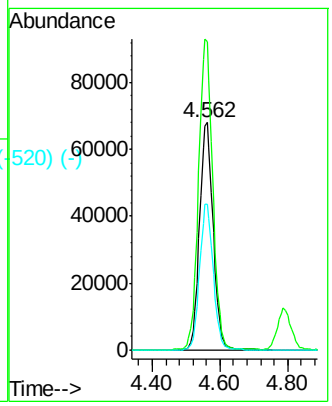
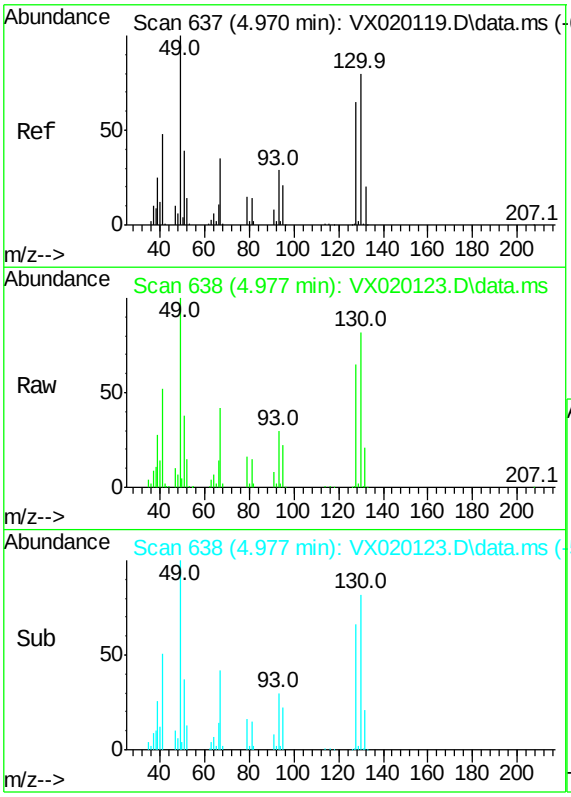


#27 (-)
cis-1,2-Dichloroethene
Concen: 49.85 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 96 Resp: 188624

Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	285.6
98	64.4	0.0	129.6

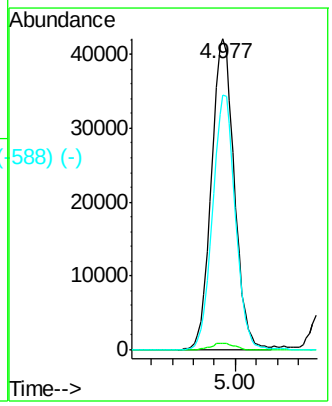




#28 (-)
Bromochloromethane
Concen: 48.48 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.007 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 49 Resp: 127271

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	81.0	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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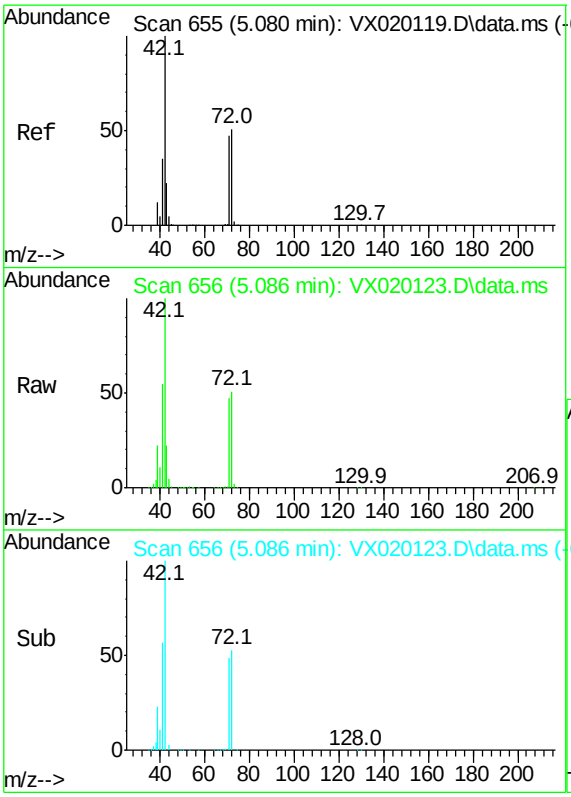
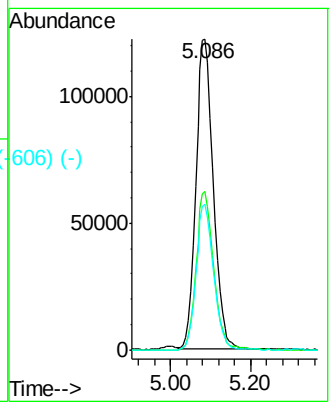
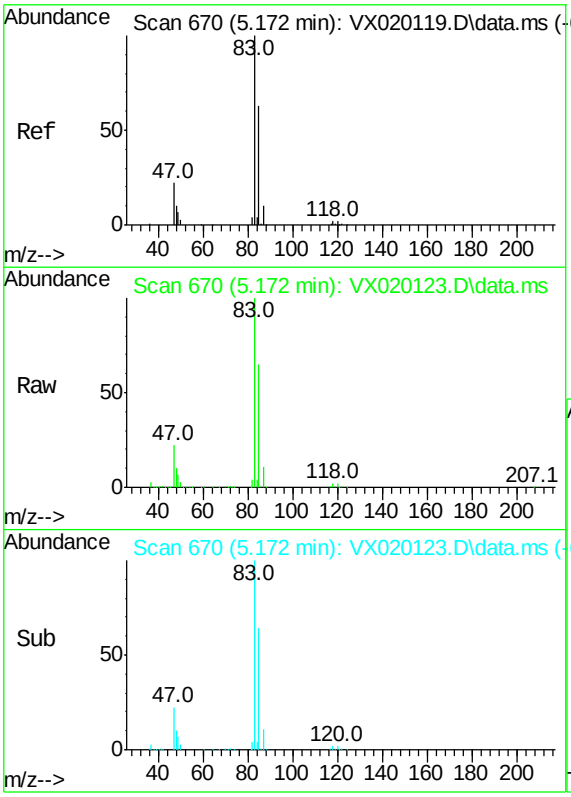


#29
Tetrahydrofuran
Concen: 244.90 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 42 Resp: 370717

Ion	Ratio	Lower	Upper
42	100		
72	51.1	41.7	62.5
71	47.0	38.4	57.6

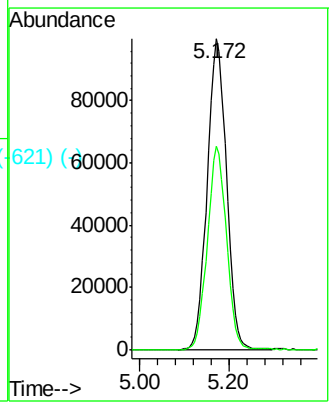




#30
Chloroform
Concen: 49.41 ug/l
RT: 5.172 min Scan# 670
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 83 Resp: 296548

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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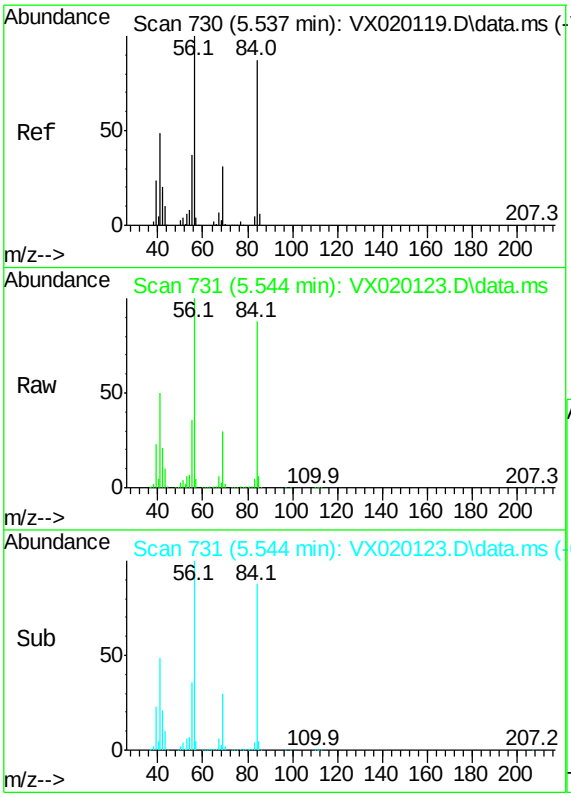
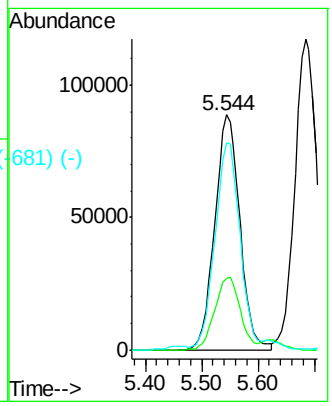
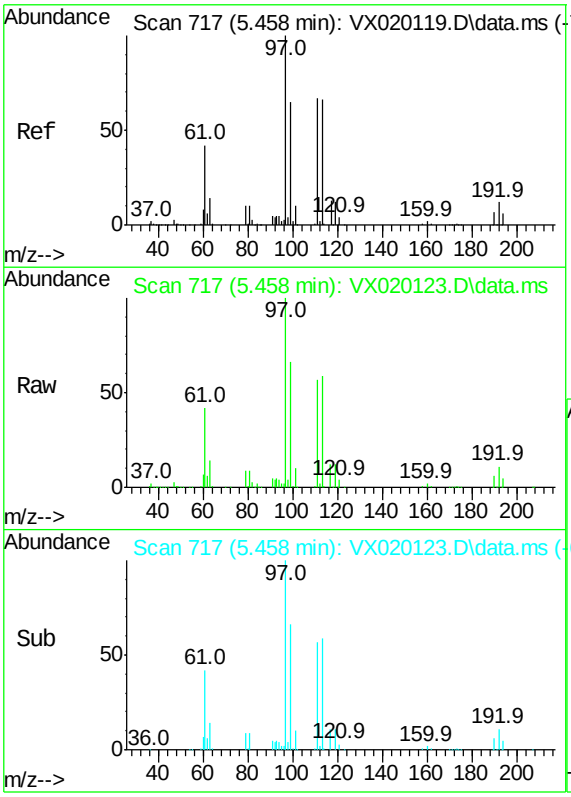


#81
Cyclohexane
Concen: 54.44 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.007 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 56 Resp: 272171

Ion	Ratio	Lower	Upper
56	100		
69	30.3	25.3	37.9
84	86.6	71.4	107.0

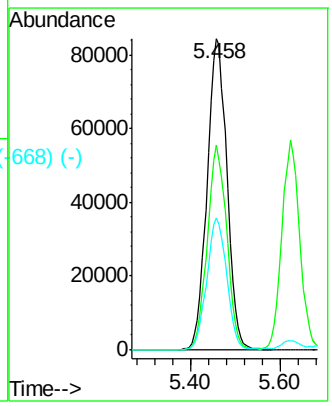




#82
1,1,1-Trichloroethane
Concen: 51.52 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 97 Resp: 257840

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.5	77.3
61	42.5	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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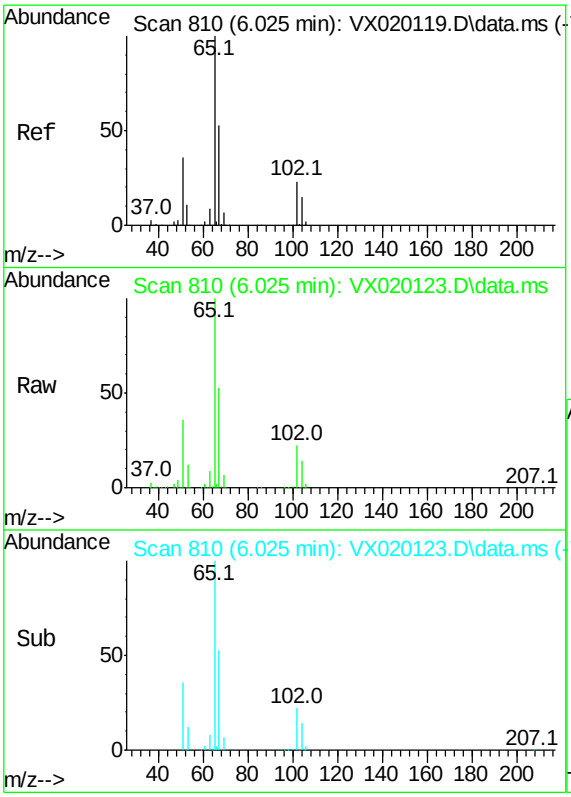
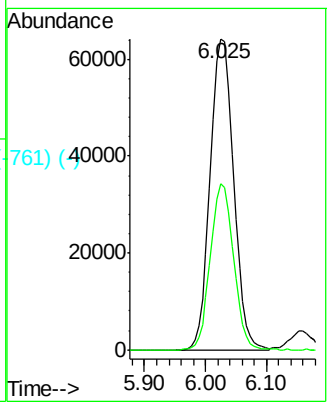
12/21/2020 3:58:15 PM

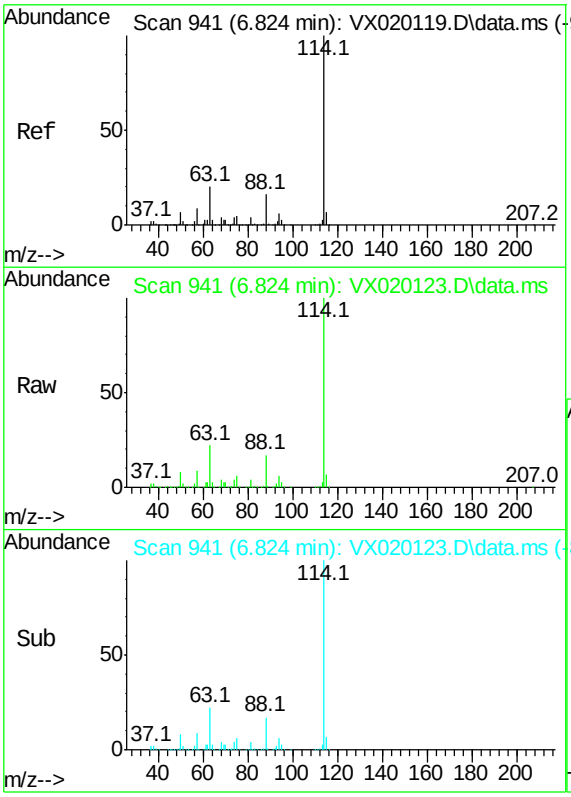


#33
1,2-Dichloroethane-d4
Concen: 47.01 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 65 Resp: 170420

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	105.4

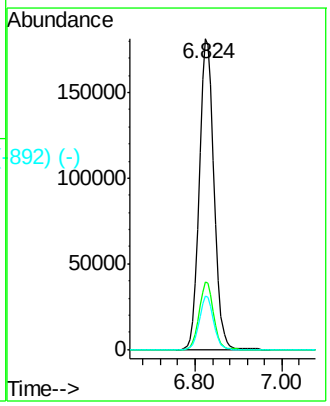




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.824 min Scan# 941
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:114 Resp: 433134

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	40.8
88	17.1	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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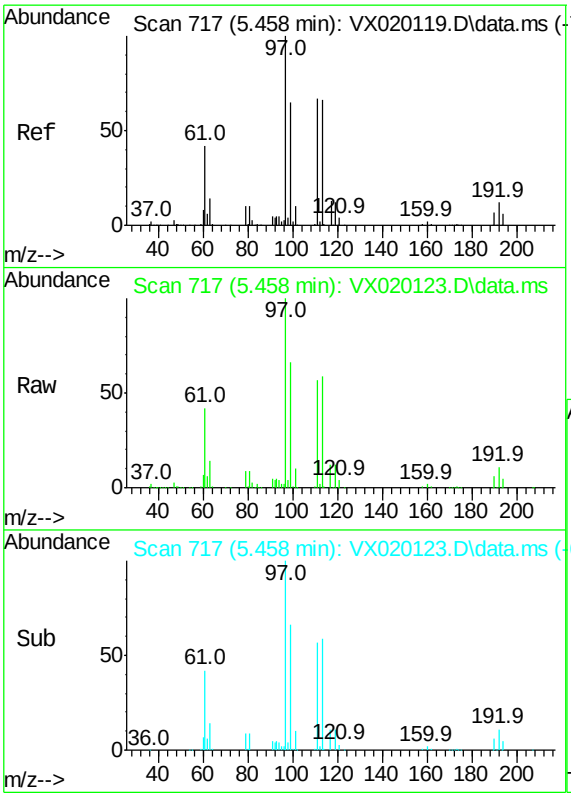
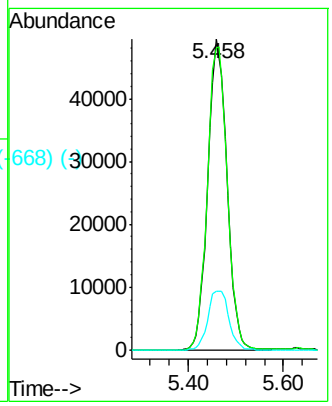
12/21/2020 3:58:15 PM

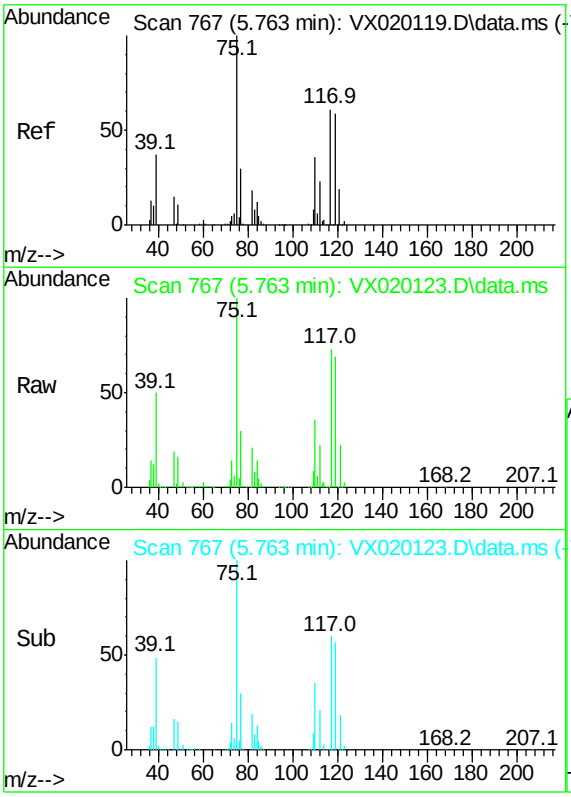


#35
Dibromofluoromethane
Concen: 49.69 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:113 Resp: 137679

Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.9	122.9
192	20.5	16.7	25.1

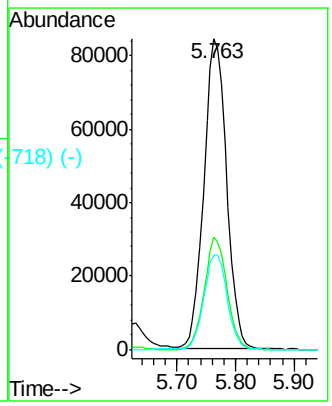




#36
1,1-Dichloropropene
Concen: 53.02 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 75 Resp: 226965

Ion	Ratio	Lower	Upper
75	100		
110	35.9	18.1	54.4
77	31.4	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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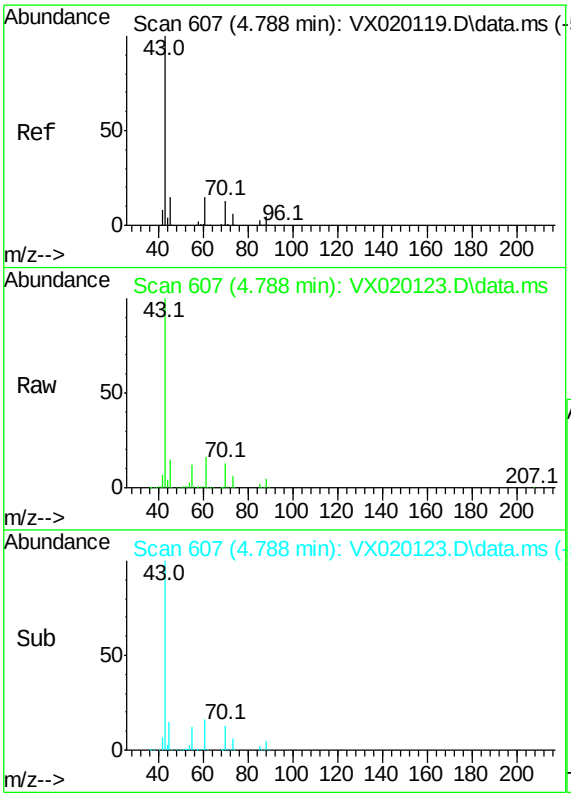
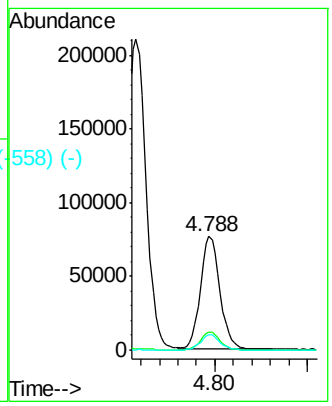
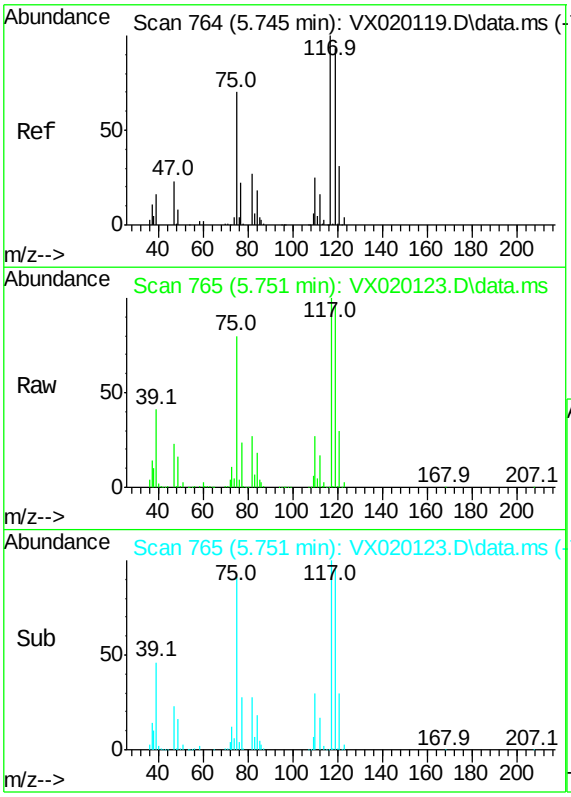


#37 (-)
Ethyl Acetate
Concen: 50.76 ug/l
RT: 4.788 min Scan# 607
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 43 Resp: 225817

Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.8	19.2
70	12.8	10.5	15.7

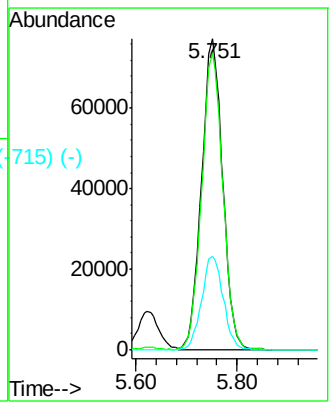




#38 (-)
Carbon Tetrachloride
Concen: 54.26 ug/l
RT: 5.751 min Scan# 765
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:117 Resp: 220931

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.2	114.2
121	30.1	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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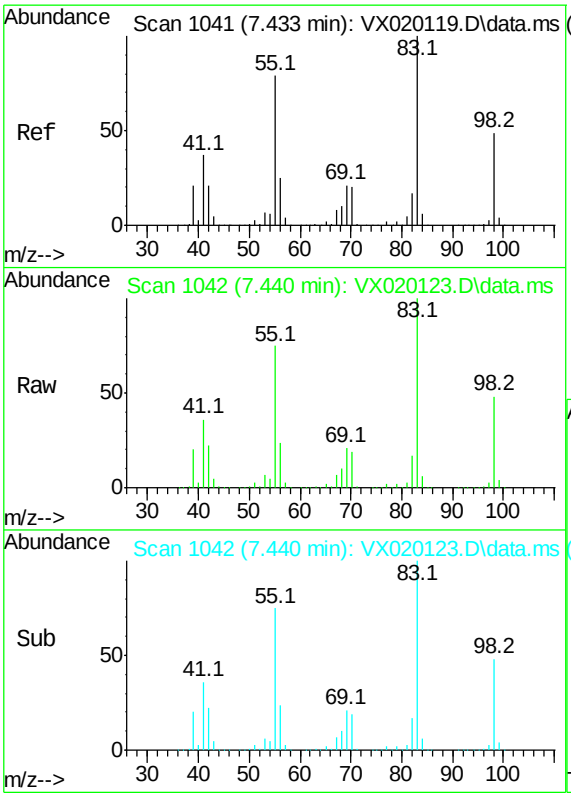
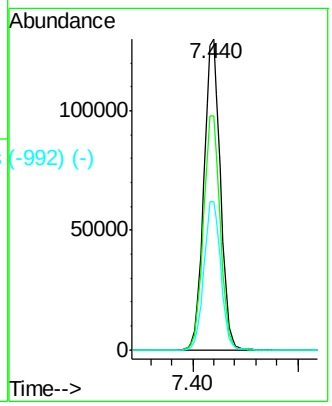
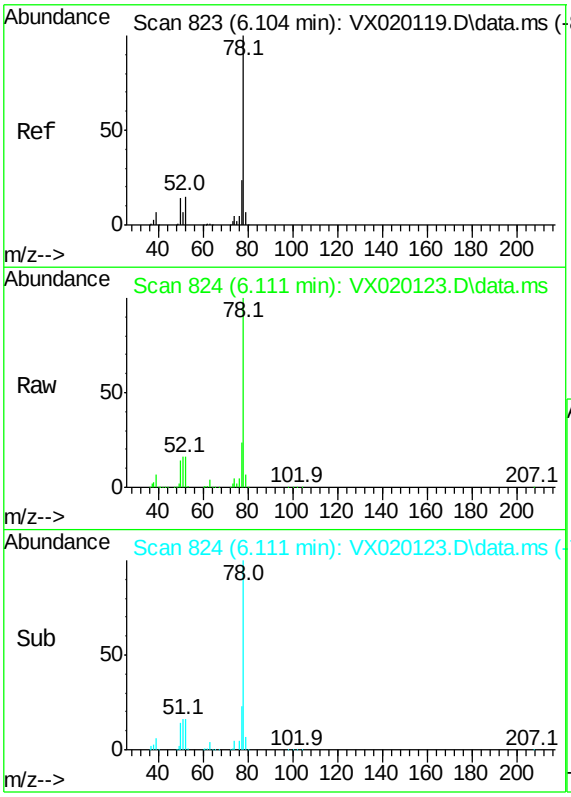


#39
Methylcyclohexane
Concen: 56.96 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.007 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 83 Resp: 281442

Ion	Ratio	Lower	Upper
83	100		
55	75.4	58.9	88.3
98	47.8	38.1	57.1

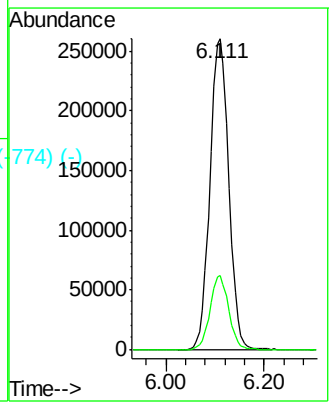




#40
Benzene
Concen: 51.85 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.007 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 78 Resp: 690890

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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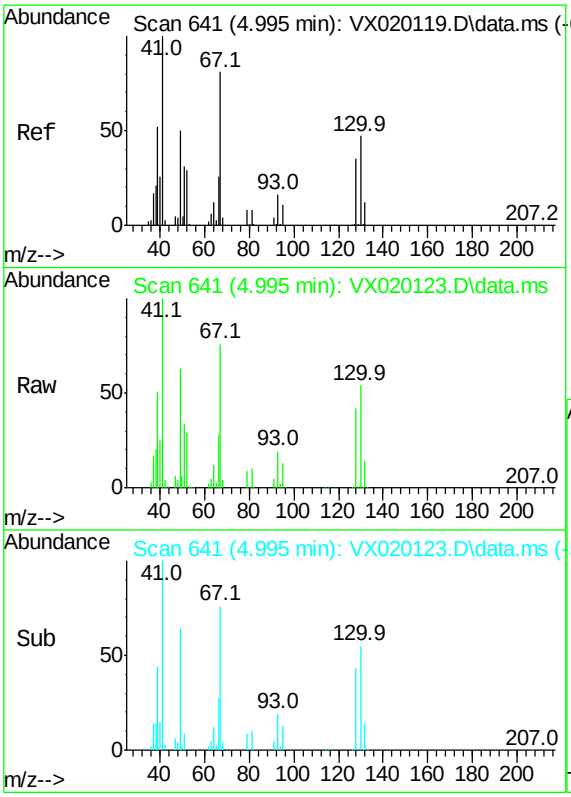
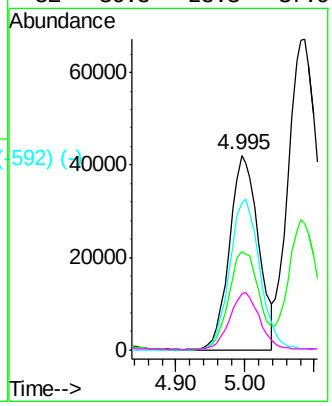
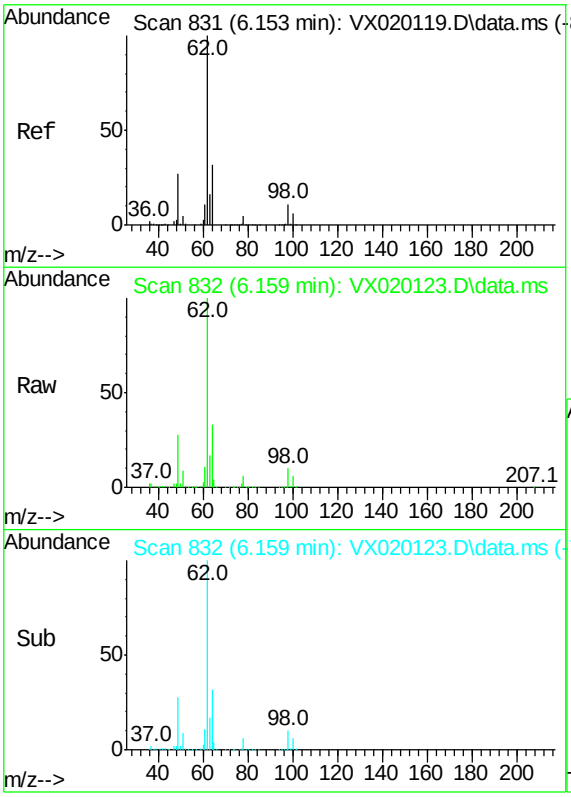


#41
Methacrylonitrile
Concen: 51.44 ug/l
RT: 4.995 min Scan# 641
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 41 Resp: 121927

Ion	Ratio	Lower	Upper
41	100		
39	54.5	42.5	63.7
67	81.3	65.0	97.6
52	30.5	25.3	37.9

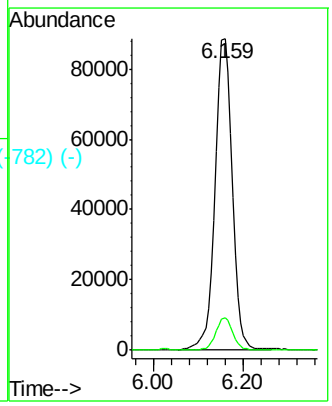




#42
1,2-Dichloroethane
Concen: 51.15 ug/l
RT: 6.159 min Scan# 832
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 62 Resp: 233820

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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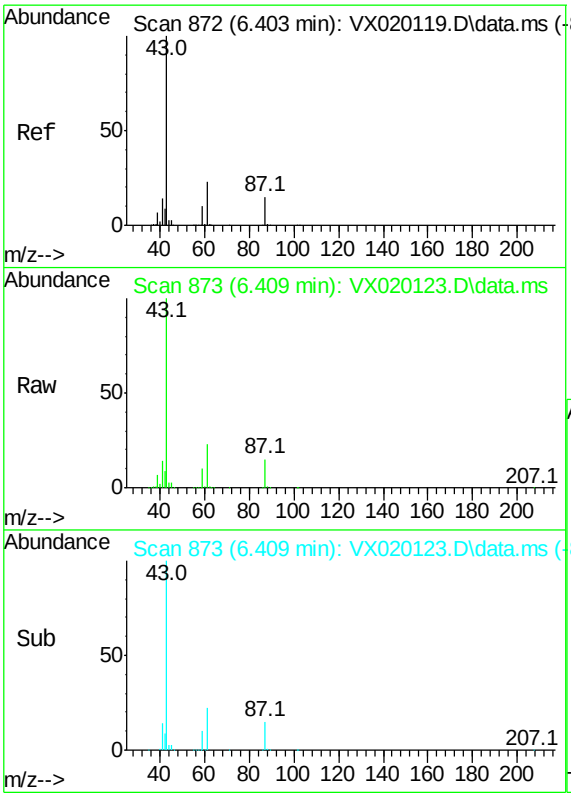
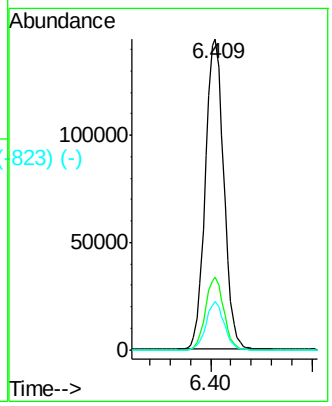
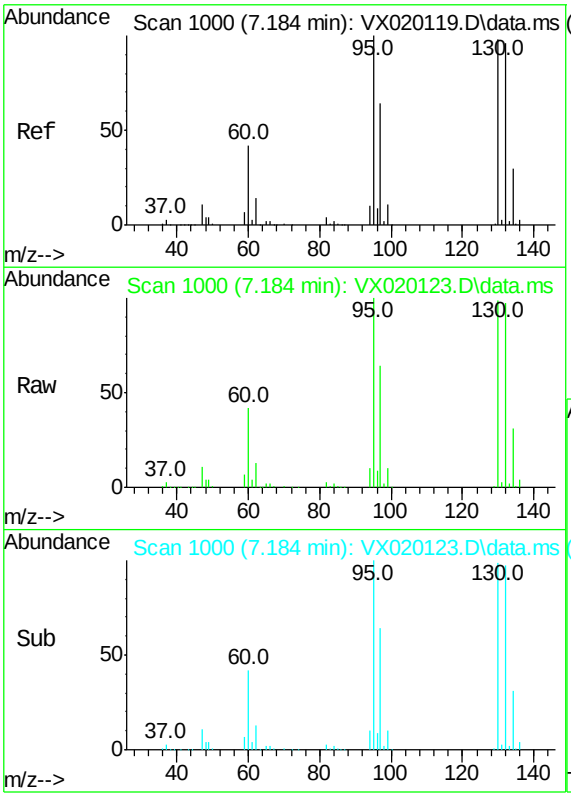


#43
Isopropyl Acetate
Concen: 51.87 ug/l
RT: 6.409 min Scan# 873
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 43 Resp: 364308

Ion	Ratio	Lower	Upper
43	100		
61	23.1	18.2	27.4
87	15.1	12.5	18.7

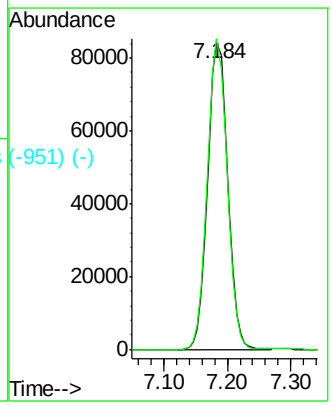




#44
Trichloroethene
Concen: 51.66 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:130 Resp: 177929

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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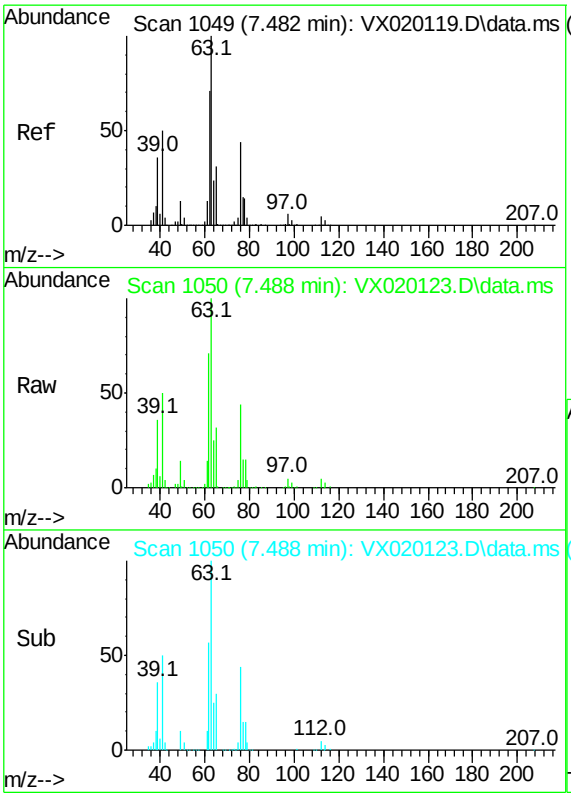
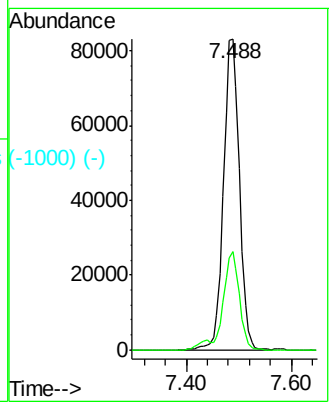
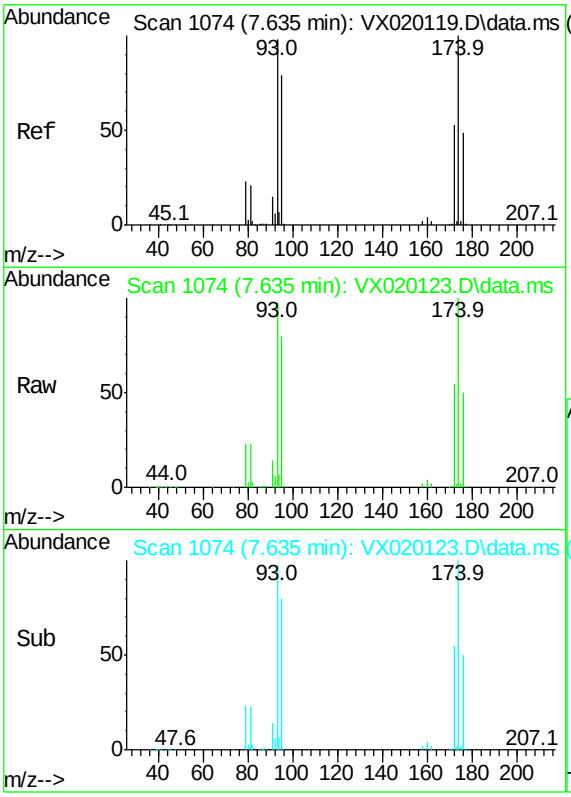


#45
1,2-Dichloropropane
Concen: 51.64 ug/l
RT: 7.488 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 63 Resp: 173918

Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.7	38.5

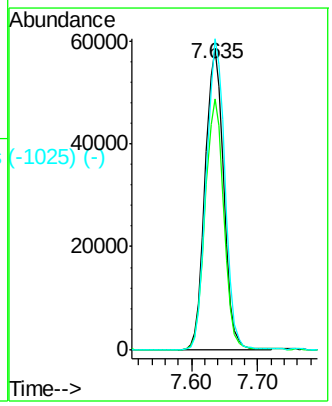




#46
Dibromomethane
Concen: 49.28 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 93 Resp: 113526

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.8	100.2
174	103.6	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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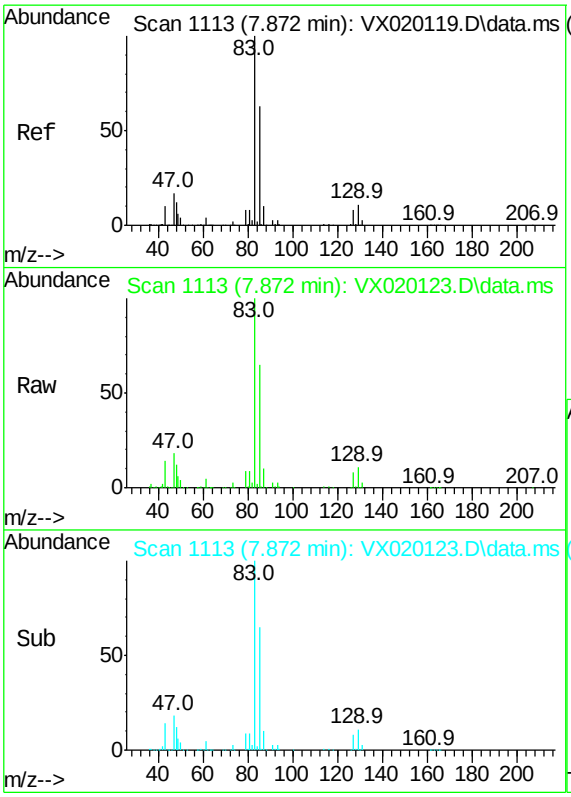
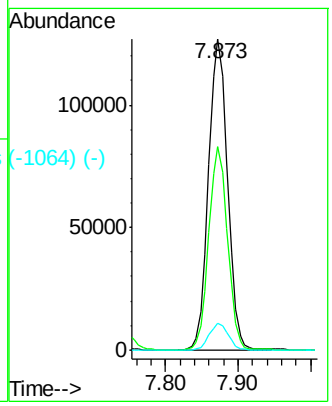
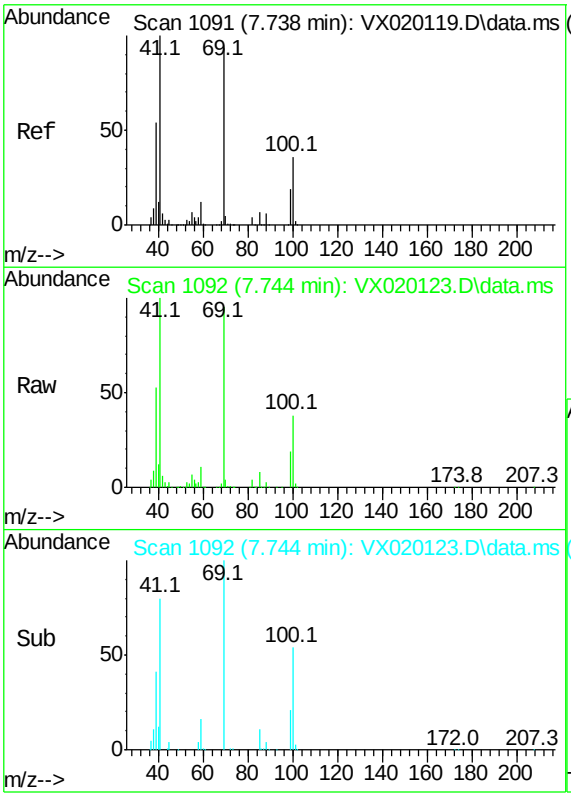


#47
Bromodichloromethane
Concen: 52.54 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 83 Resp: 230726

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.4	77.0
127	8.5	6.8	10.2

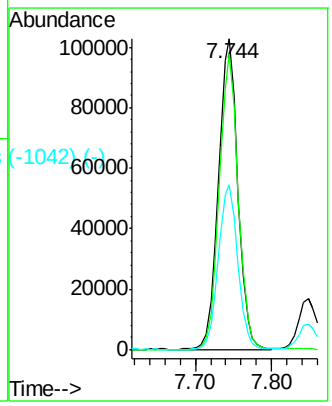




#48
Methyl methacrylate
Concen: 52.81 ug/l
RT: 7.744 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 41 Resp: 181747

Ion	Ratio	Lower	Upper
41	100		
69	93.7	76.0	114.0
39	53.7	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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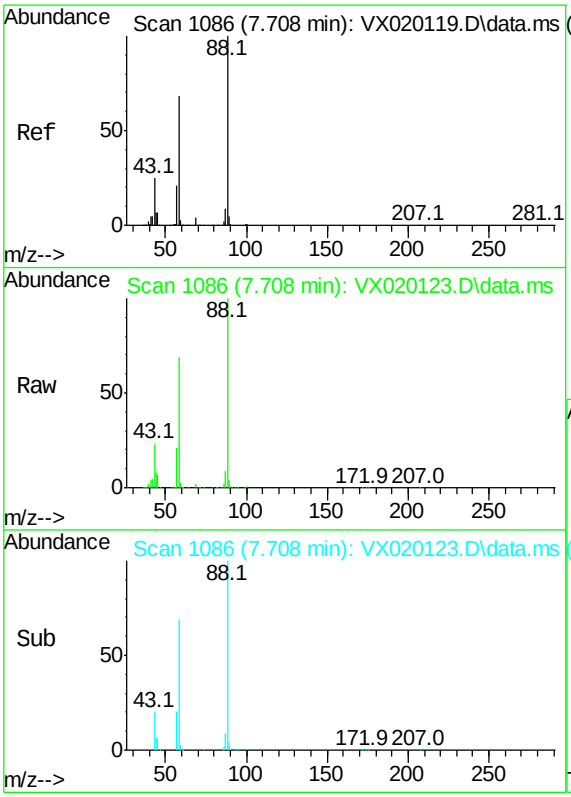
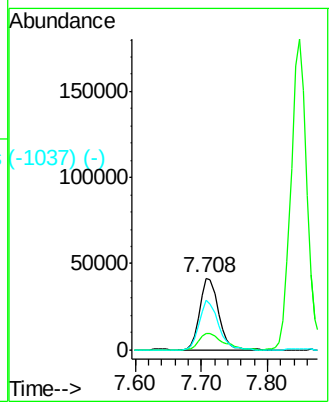
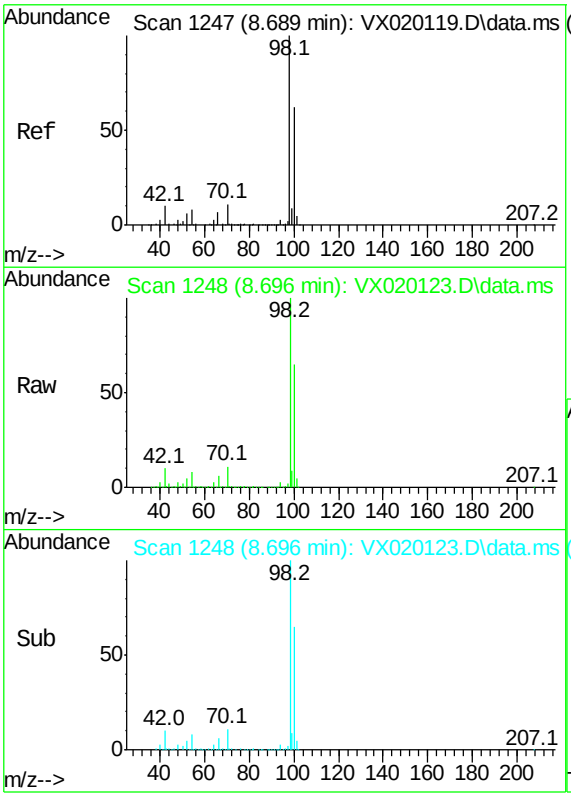


#49
1,4-Dioxane
Concen: 1010.14 ug/l
RT: 7.708 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 88 Resp: 81378

Ion	Ratio	Lower	Upper
88	100		
43	28.8	23.2	34.8
58	69.7	55.0	82.4

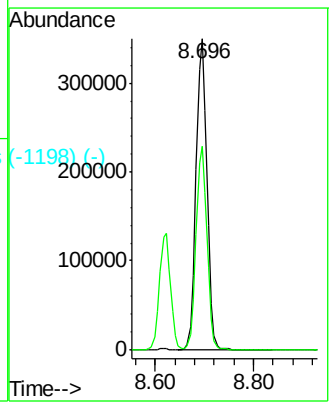




#50
Toluene-d8
Concen: 50.39 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 98 Resp: 537463

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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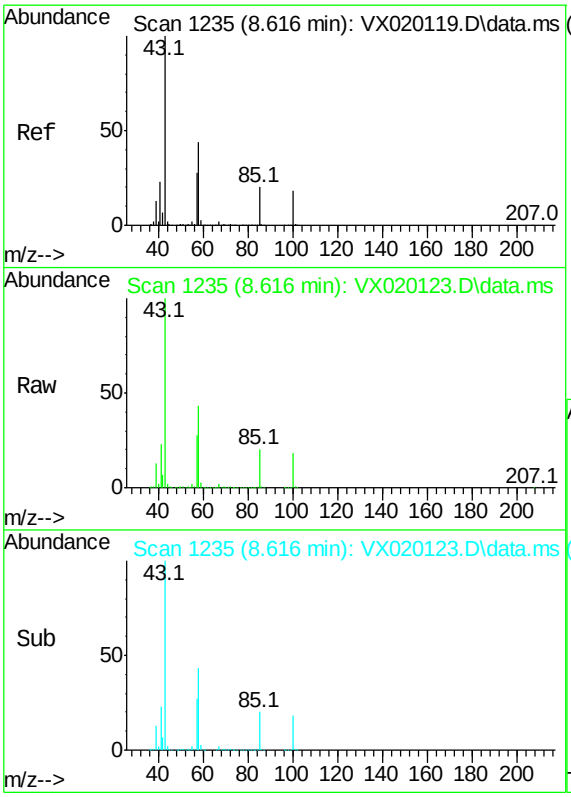
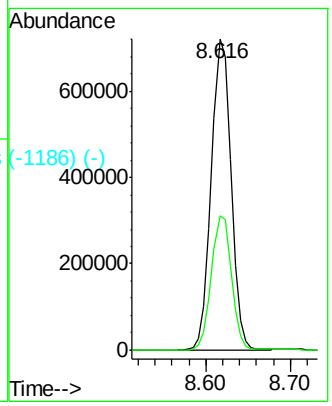
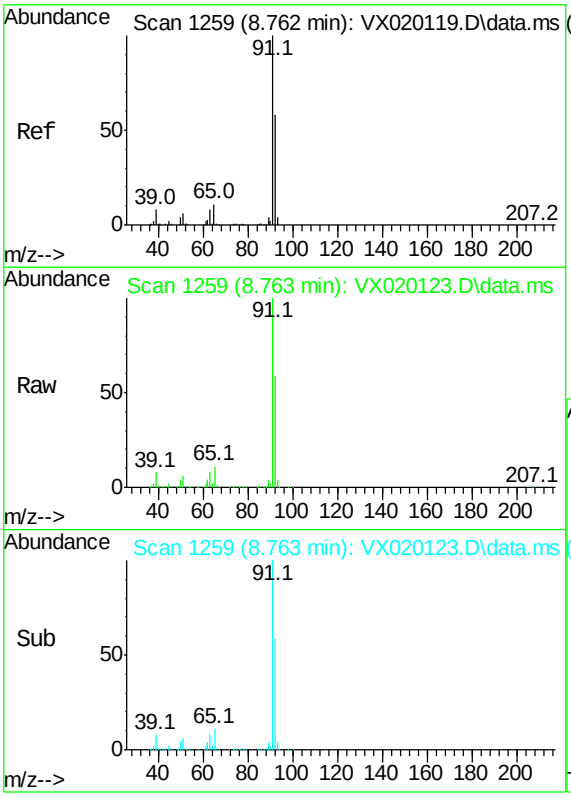


#51
4-Methyl-2-Pentanone
Concen: 259.73 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 43 Resp: 1129297

Ion	Ratio	Lower	Upper
43	100		
58	43.8	35.4	53.0

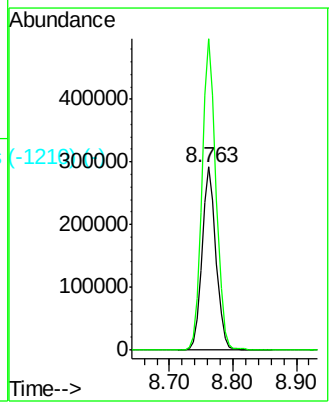




#52
Toluene
Concen: 52.85 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.001 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 92 Resp: 429799

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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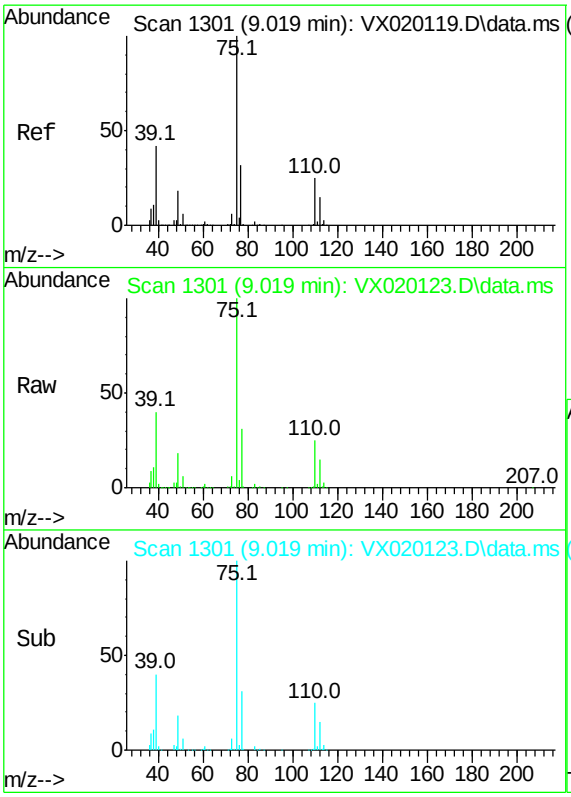
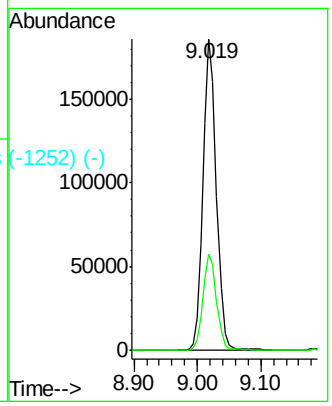
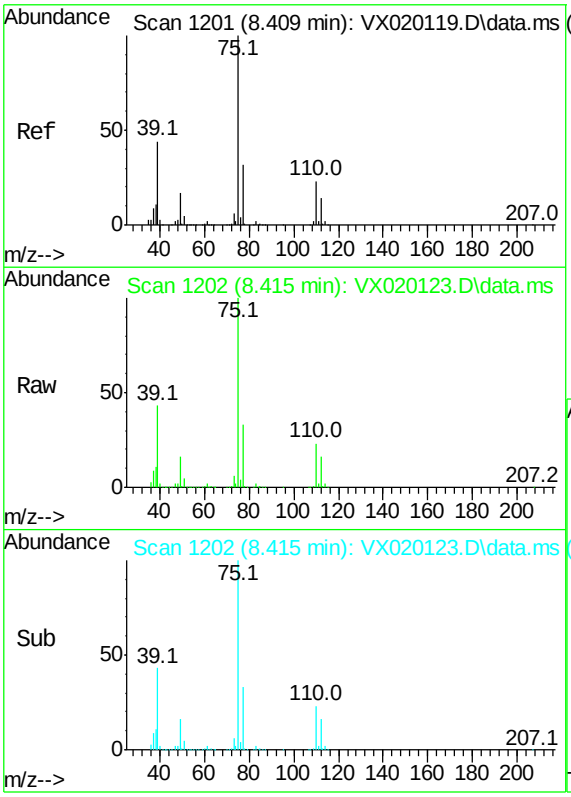


#53
t-1,3-Dichloropropene
Concen: 54.07 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 75 Resp: 261186

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.9	37.3

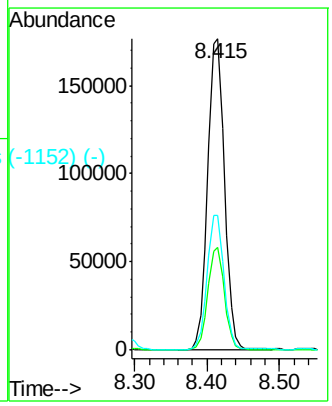




#54
cis-1,3-Dichloropropene
Concen: 53.45 ug/l
RT: 8.415 min Scan# 1202
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 75 Resp: 283490

Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.7	38.5
39	43.1	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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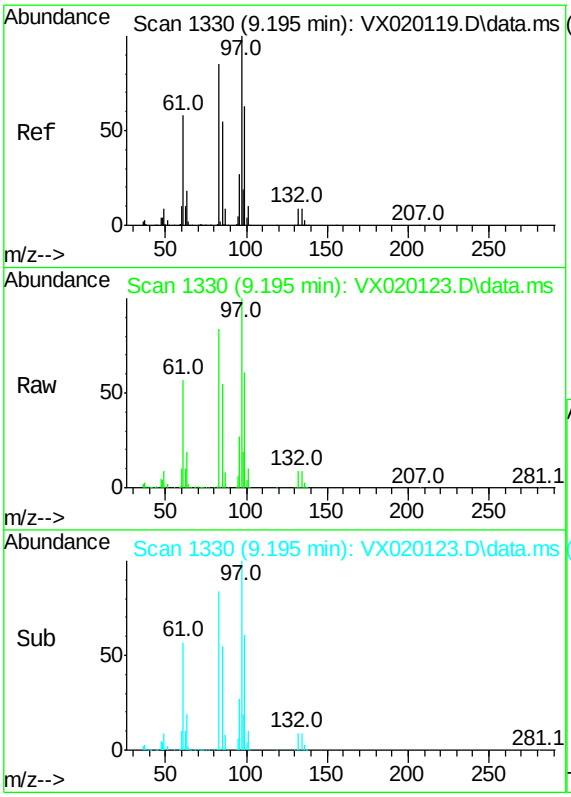
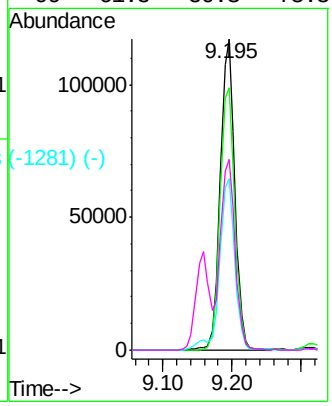
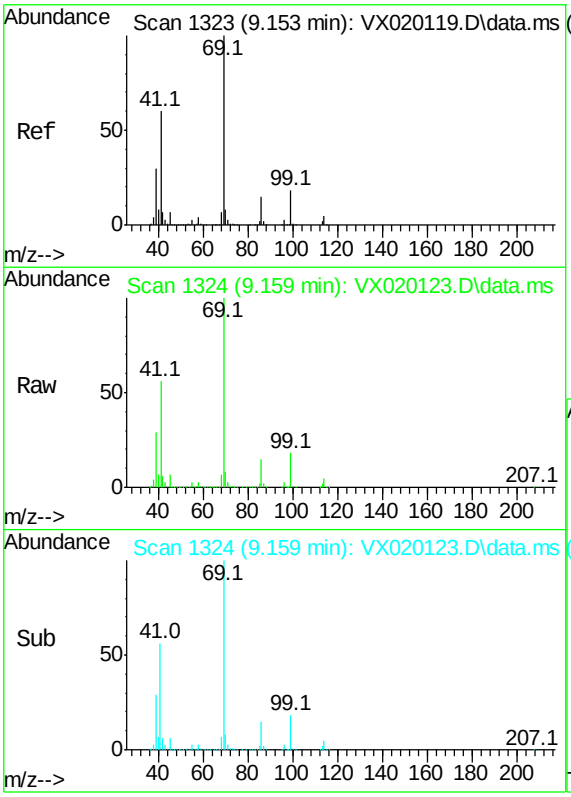


#55
1,1,2-Trichloroethane
Concen: 50.94 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 97 Resp: 170836

Ion	Ratio	Lower	Upper
97	100		
83	84.2	69.3	103.9
85	55.1	44.3	66.5
99	61.5	50.3	75.5

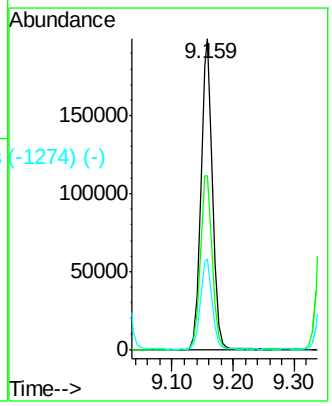




#56
Ethyl methacrylate
Concen: 55.05 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 69 Resp: 270206

Ion	Ratio	Lower	Upper
69	100		
41	58.3	46.8	70.2
39	29.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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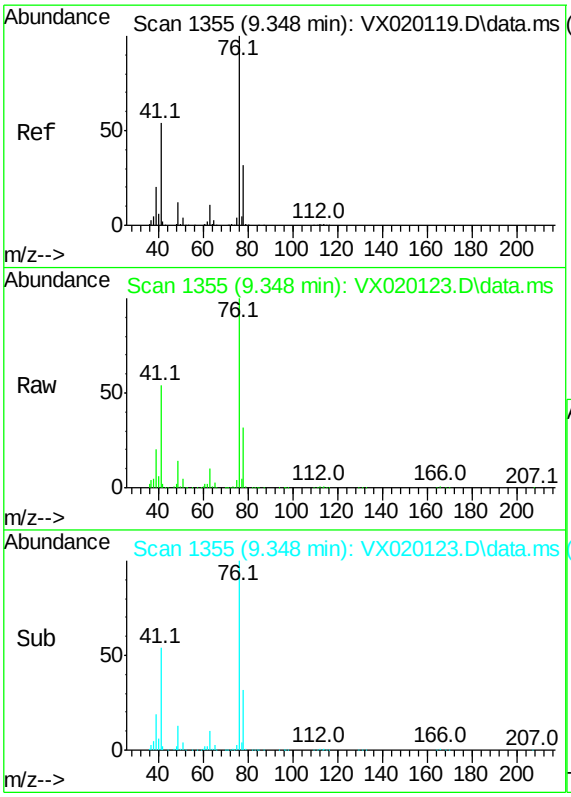
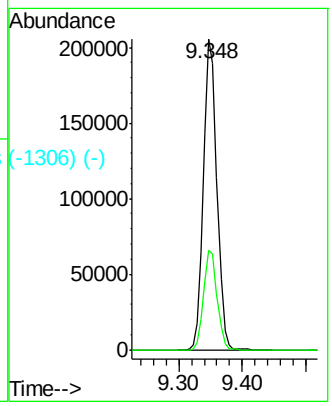
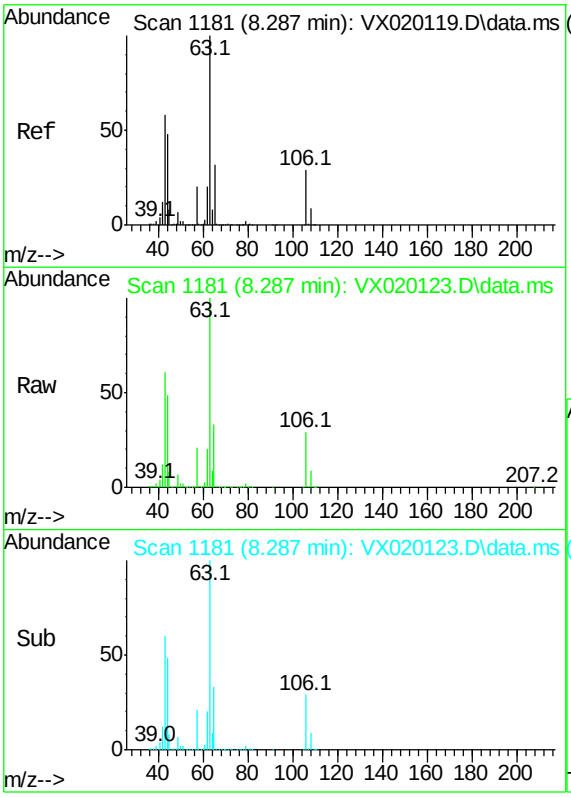


#57
1,3-Dichloropropane
Concen: 51.41 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 76 Resp: 293502

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.2

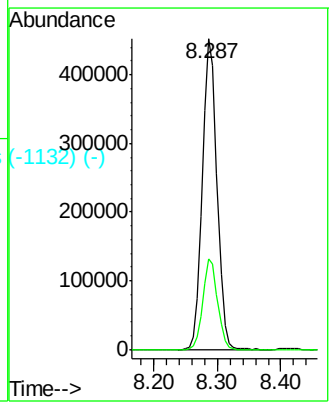




#58
2-Chloroethyl Vinyl ether
Concen: 270.92 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 63 Resp: 703410

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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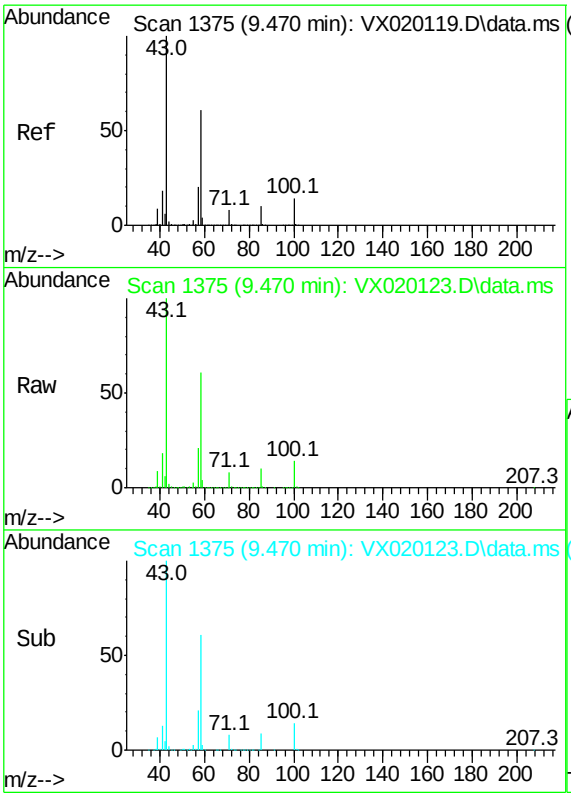
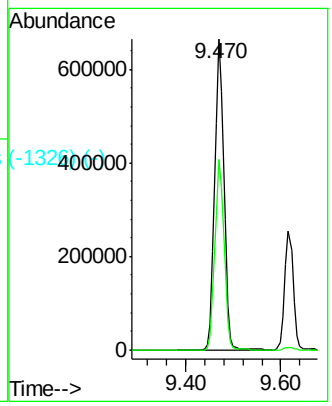
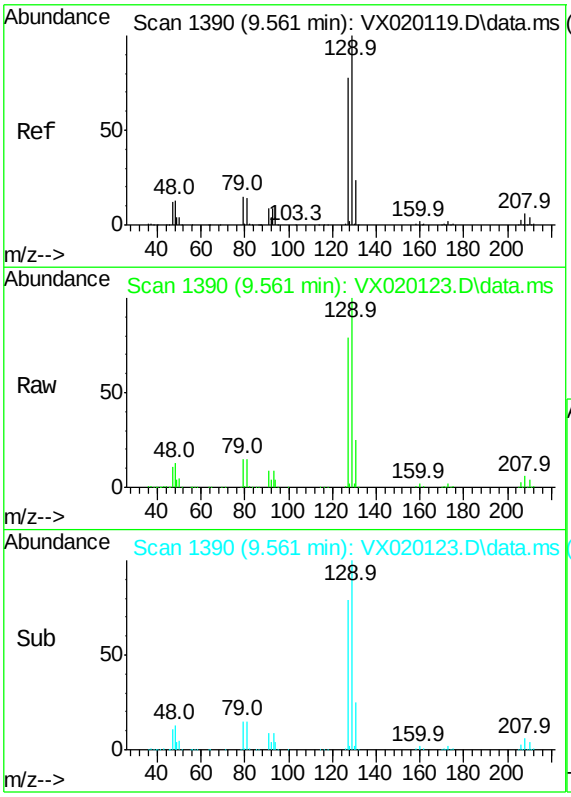


#58
2-Hexanone
Concen: 264.40 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 43 Resp: 876028

Ion	Ratio	Lower	Upper
43	100		
58	61.4	30.9	92.8

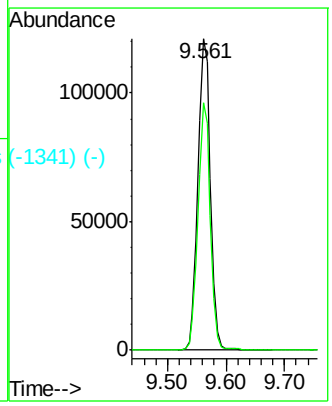




#60
Dibromochloromethane
Concen: 53.32 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:129 Resp: 177440

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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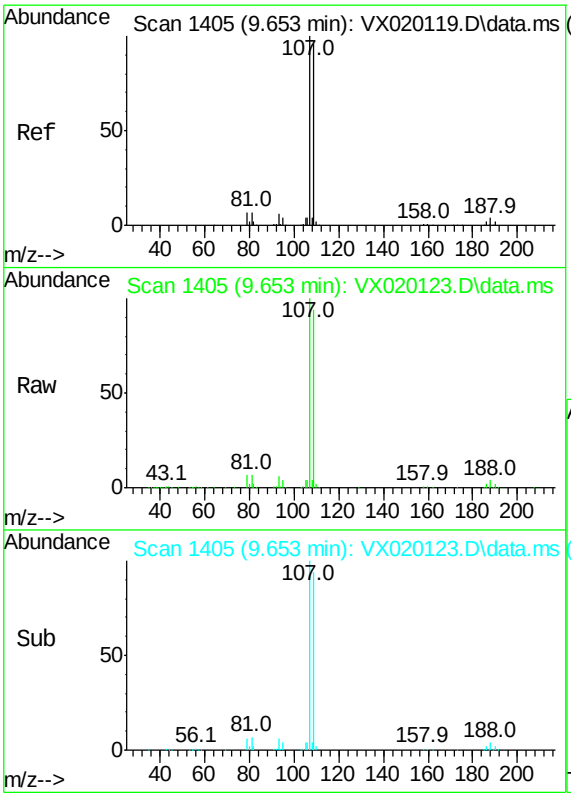
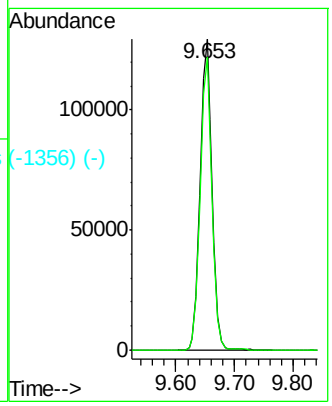
12/21/2020 3:58:15 PM

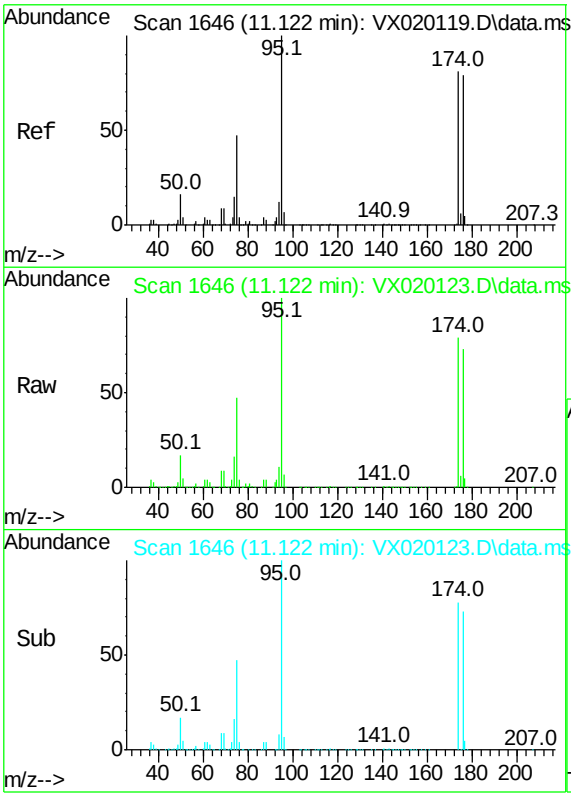


#61
1,2-Dibromoethane
Concen: 51.76 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:107 Resp: 181267

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.8	113.6

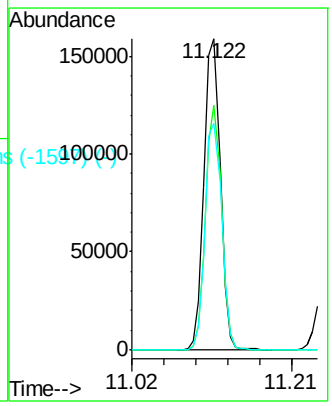




#62
4-Bromofluorobenzene
Concen: 50.17 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 95 Resp: 204793

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	154.6
176	74.3	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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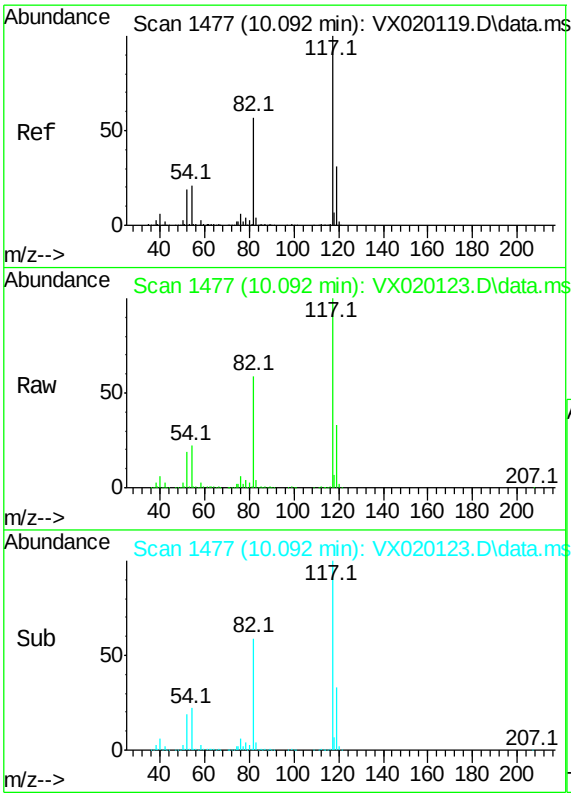
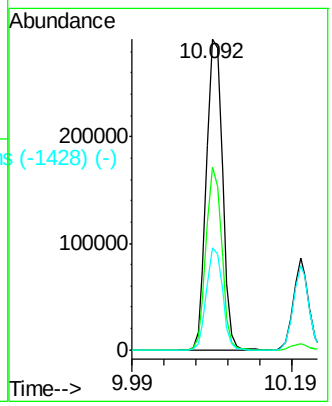
12/21/2020 3:58:15 PM

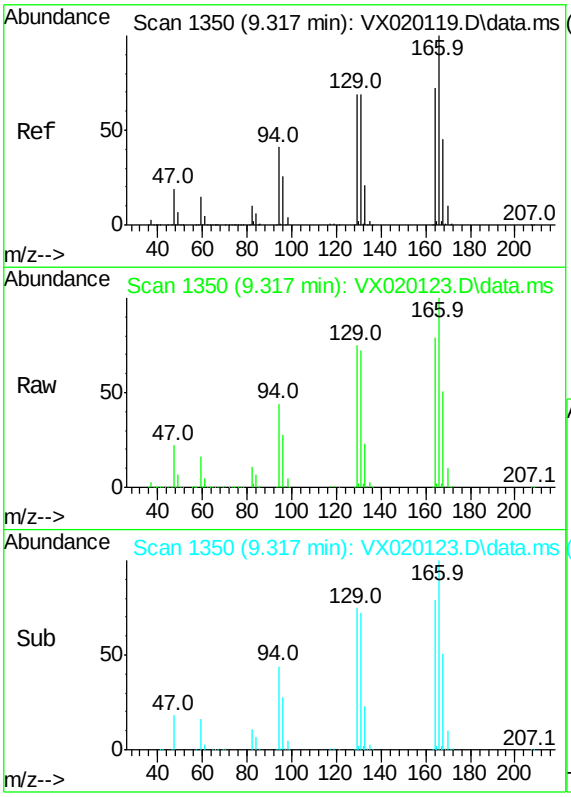


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:117 Resp: 406974

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.4	71.2
119	32.7	26.6	39.8

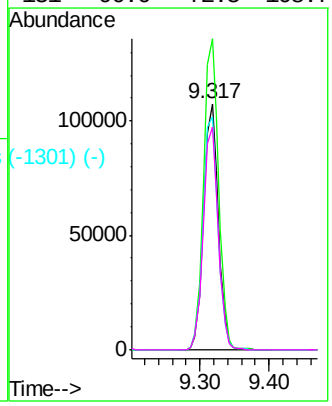




#64
Tetrachloroethene
Concen: 50.91 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:164 Resp: 156103

Ion	Ratio	Lower	Upper
164	100		
166	126.3	103.4	155.2
129	94.6	70.8	106.2
131	90.6	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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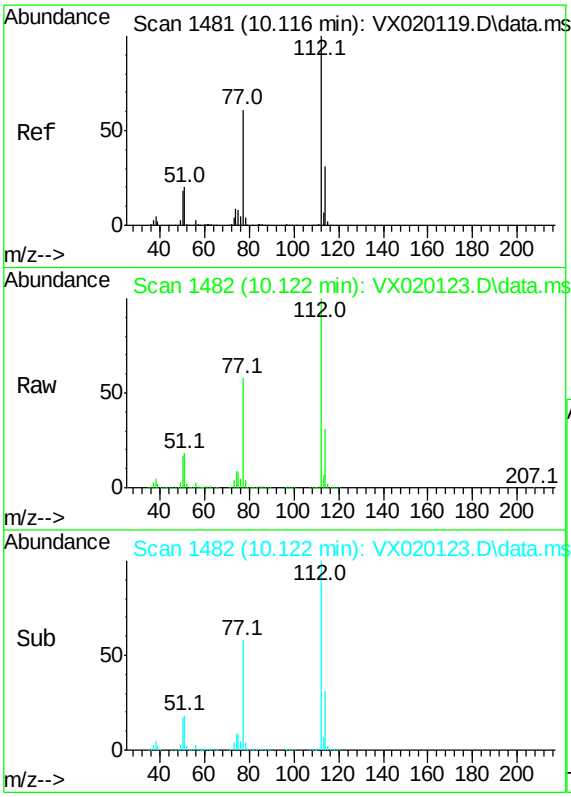
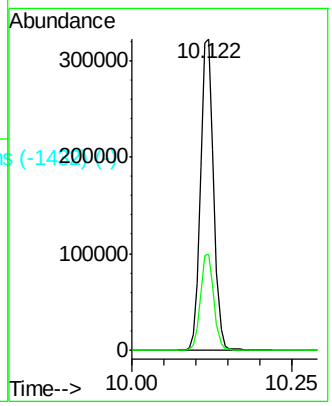
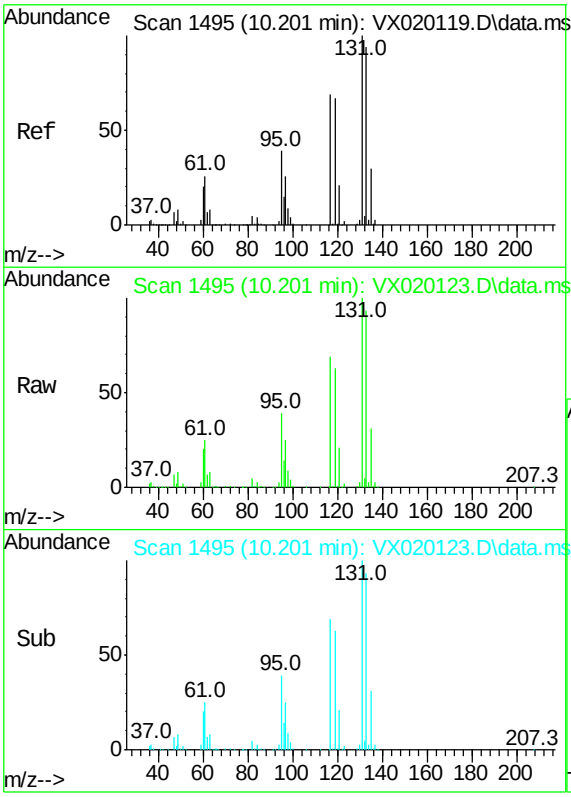


#65
Chlorobenzene
Concen: 51.79 ug/l
RT: 10.122 min Scan# 1482
Delta R.T. 0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:112 Resp: 452230

Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.8	38.6

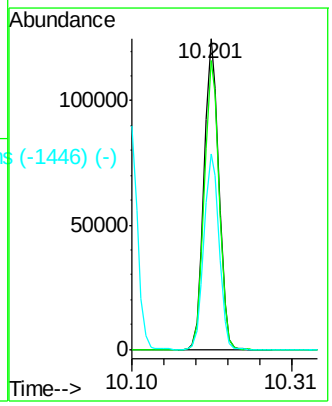




#66
1,1,1,2-Tetrachloroethane
Concen: 52.98 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:131 Resp: 165999

Ion	Ratio	Lower	Upper
131	100		
133	93.6	47.7	143.1
119	64.7	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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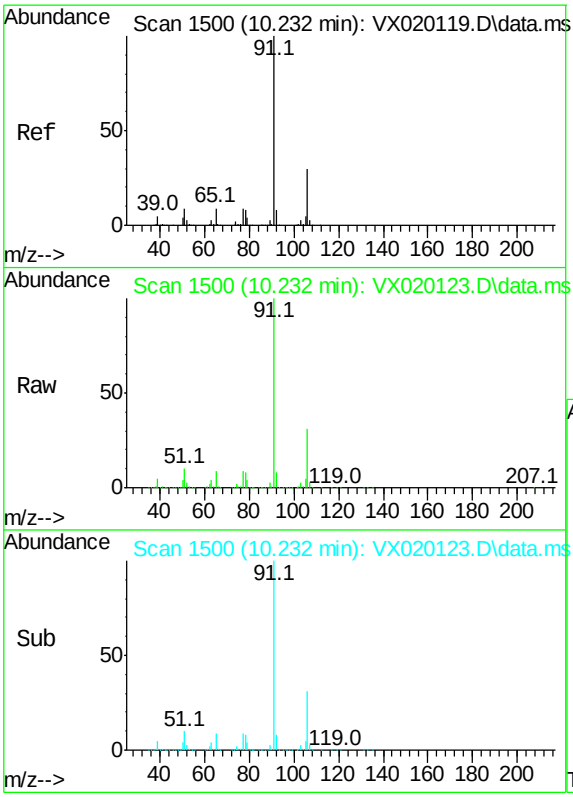
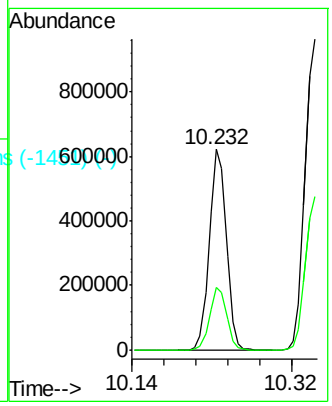
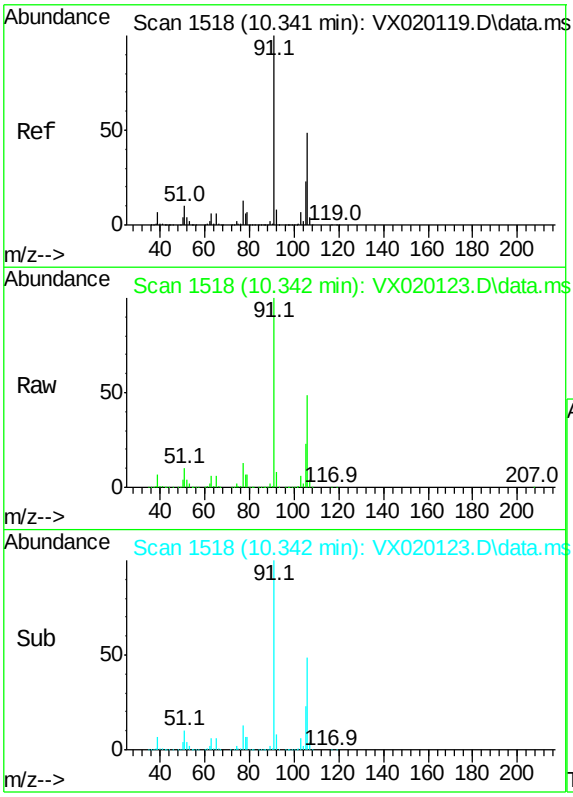


#67
Ethyl Benzene
Concen: 53.58 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 91 Resp: 817810

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.6	37.0

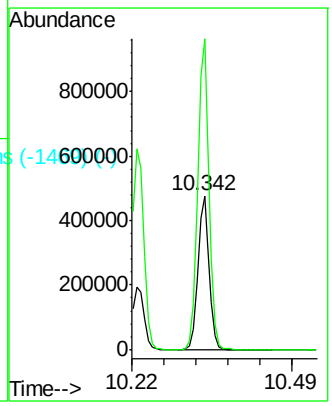




#68
m/p-Xylenes
Concen: 109.50 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.001 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:106 Resp: 623939

Ion	Ratio	Lower	Upper
106	100		
91	204.9	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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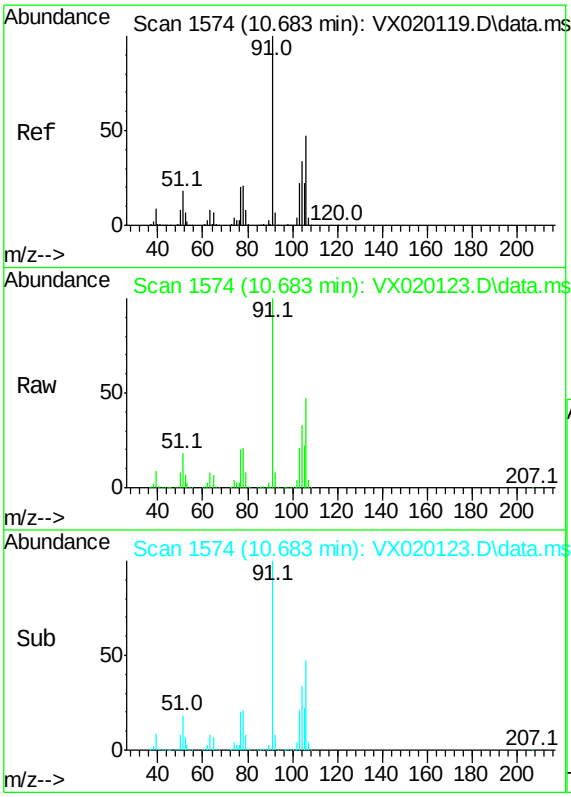
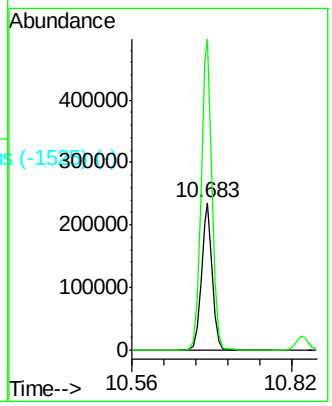
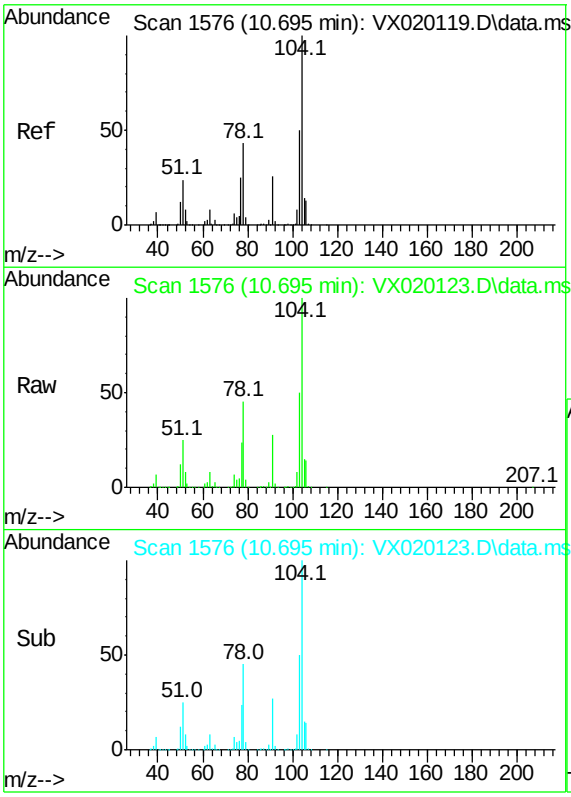


#60
o-Xylene
Concen: 53.64 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:106 Resp: 294172

Ion	Ratio	Lower	Upper
106	100		
91	217.0	108.1	324.2

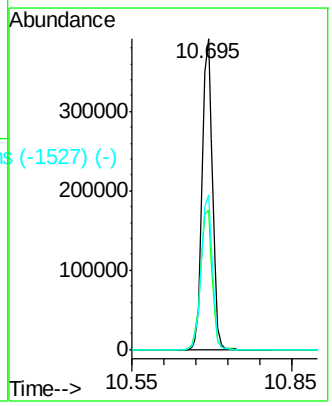




#70
Styrene
Concen: 54.68 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:104 Resp: 506946

Ion	Ratio	Lower	Upper
104	100		
78	50.4	40.0	60.0
103	54.0	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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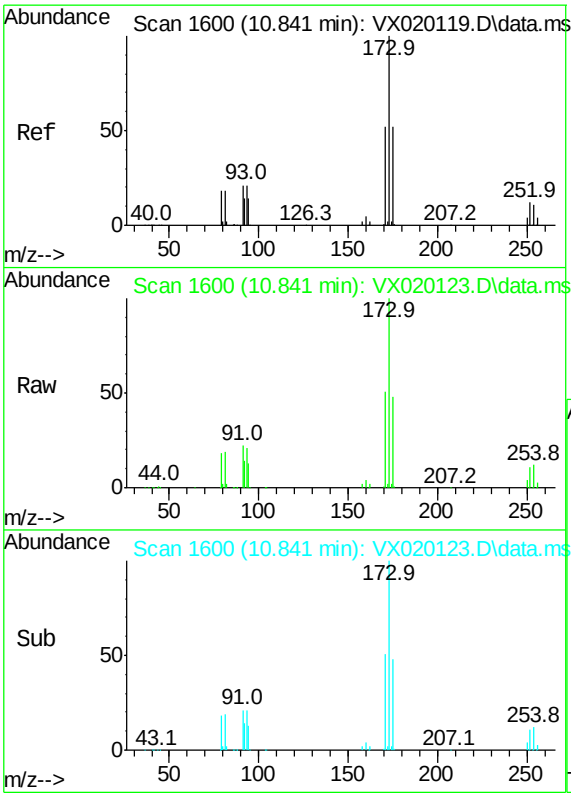
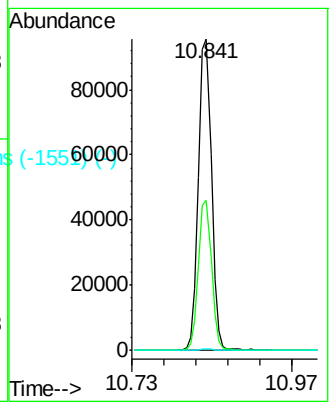
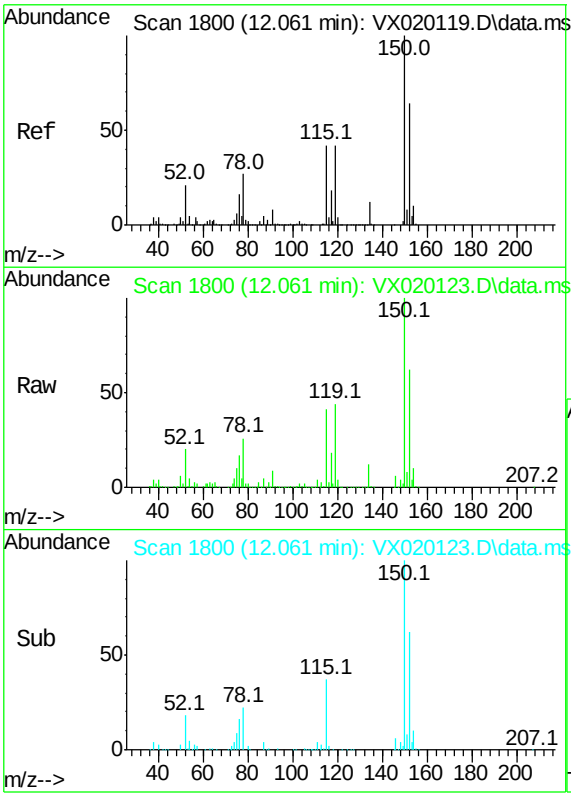


#71
Bromoform
Concen: 53.39 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:173 Resp: 129548

Ion	Ratio	Lower	Upper
173	100		
175	48.2	23.9	71.8
254	0.2	0.1	0.1#

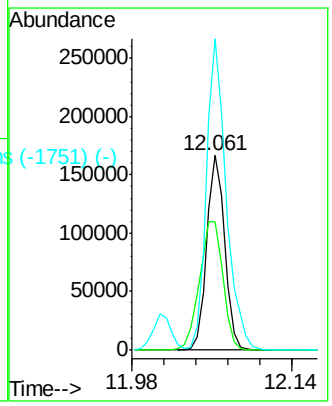




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:152 Resp: 202621

Ion	Ratio	Lower	Upper
152	100		
115	86.9	41.1	123.3
150	176.1	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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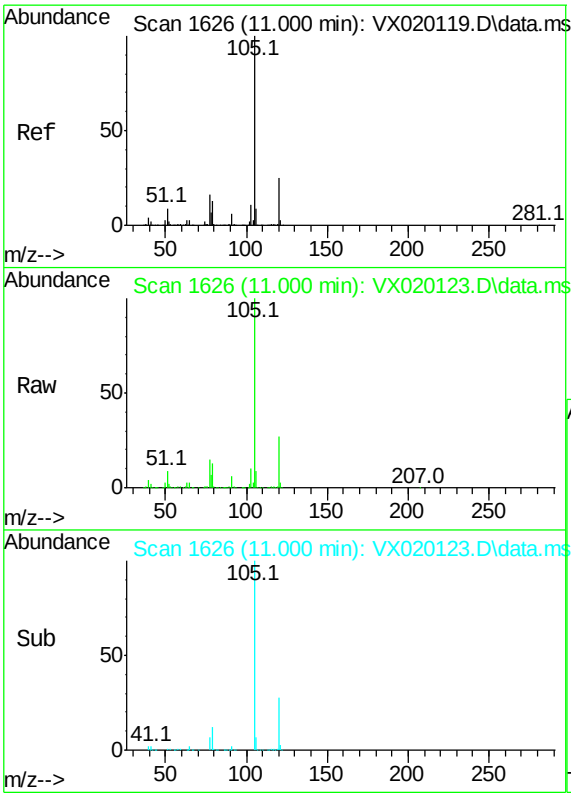
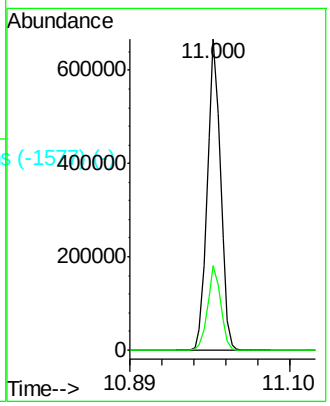
12/21/2020 3:58:15 PM

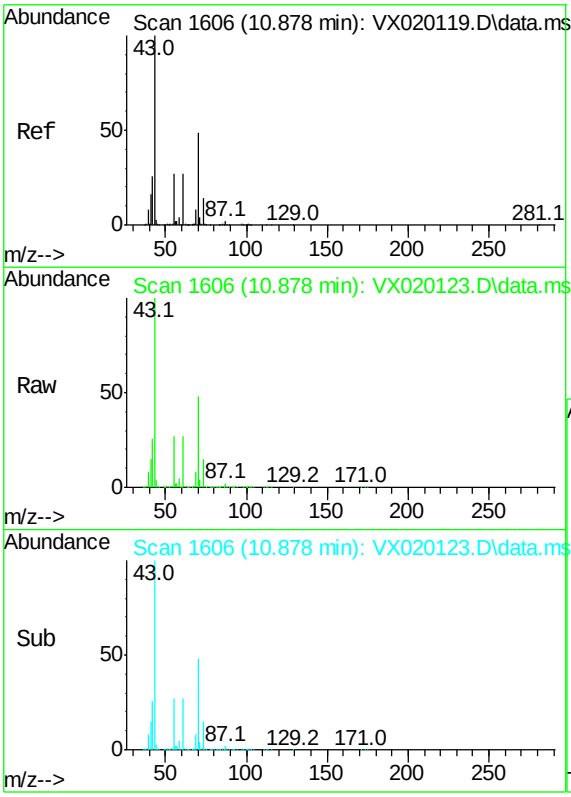


#73
Isopropylbenzene
Concen: 54.37 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:105 Resp: 795134

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.6

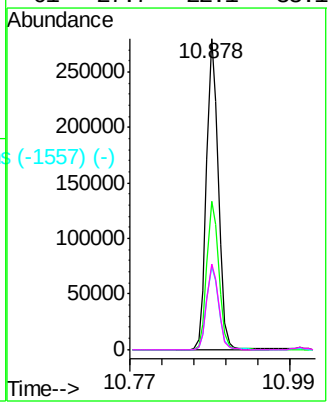




#74
N-amyl acetate
Concen: 53.82 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

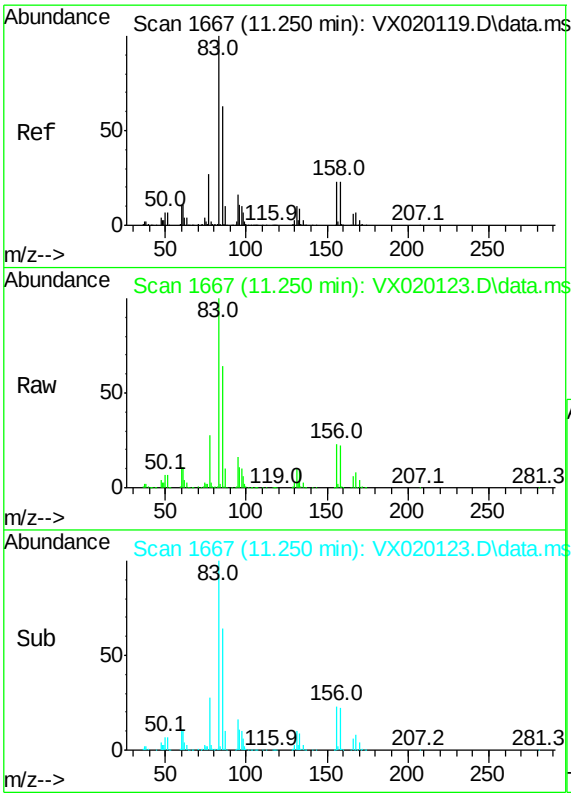
Tgt Ion: 43 Resp: 317239

Ion	Ratio	Lower	Upper
43	100		
70	48.4	39.0	58.6
55	27.4	21.5	32.3
61	27.7	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

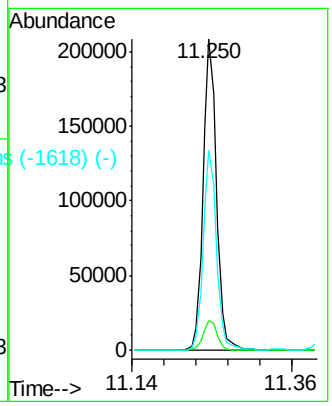
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

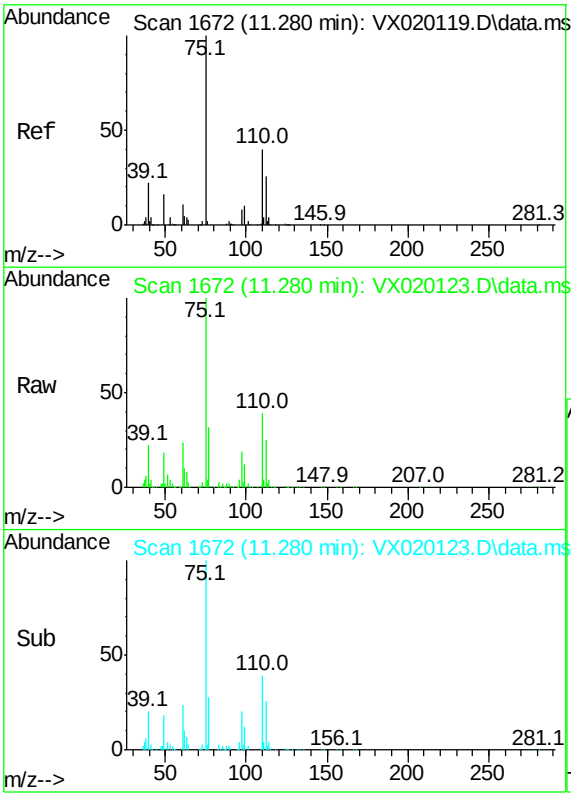


#75
1,1,2,2-Tetrachloroethane
Concen: 50.62 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 83 Resp: 268830

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.2
85	63.9	31.8	95.4

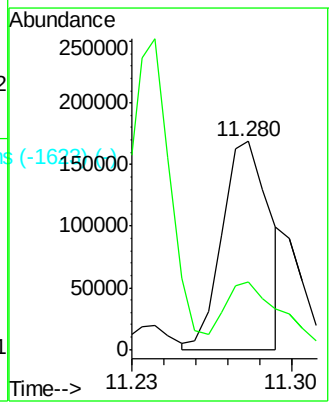




#76
1,2,3-Trichloropropane
Concen: 50.55 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 75 Resp: 252277

Ion	Ratio	Lower	Upper
75	100		
77	38.2	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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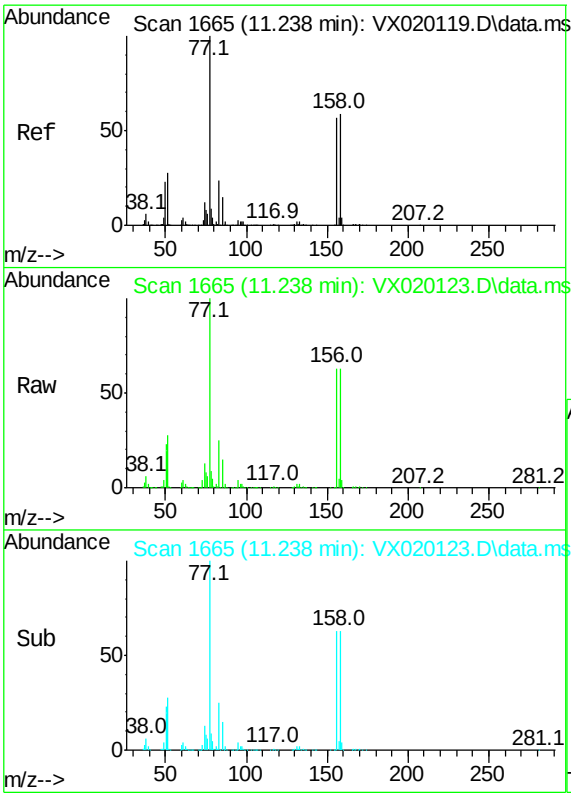
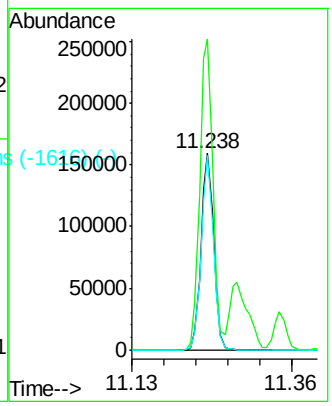
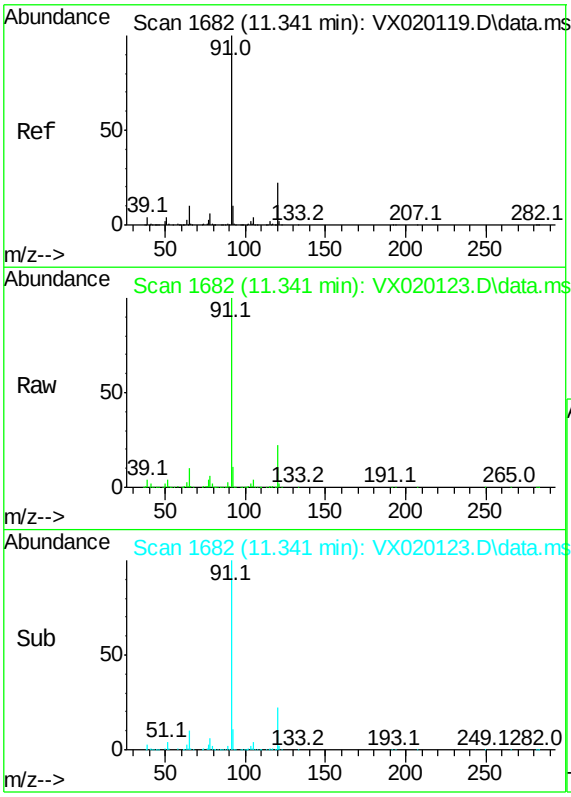


#77
Bromobenzene
Concen: 51.00 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:156 Resp: 197143

Ion	Ratio	Lower	Upper
156	100		
77	166.9	82.8	248.6
158	95.5	49.1	147.4

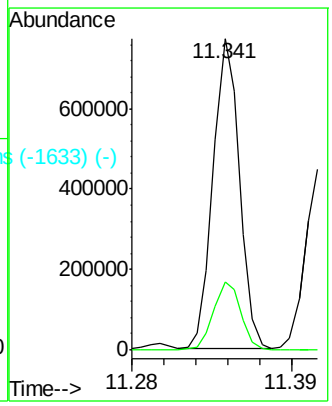




#78
n-propylbenzene
Concen: 55.06 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 91 Resp: 927940

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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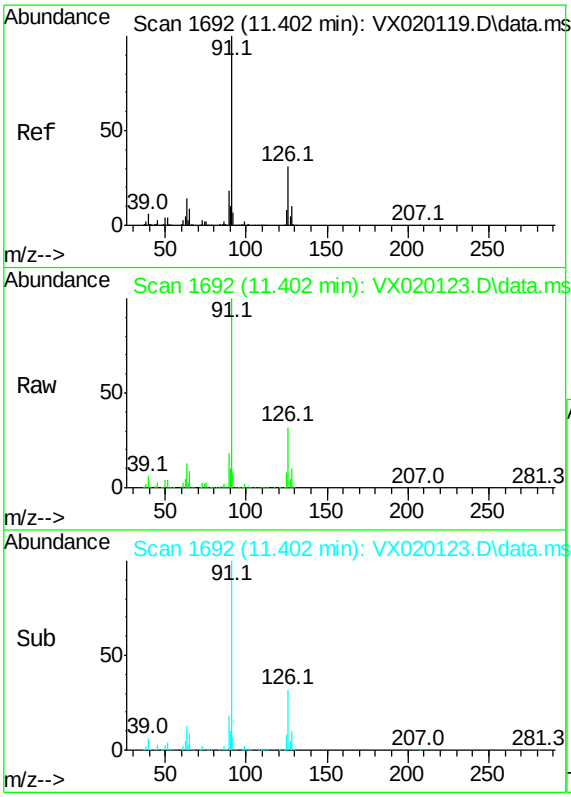
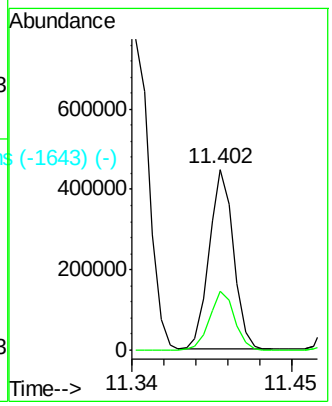
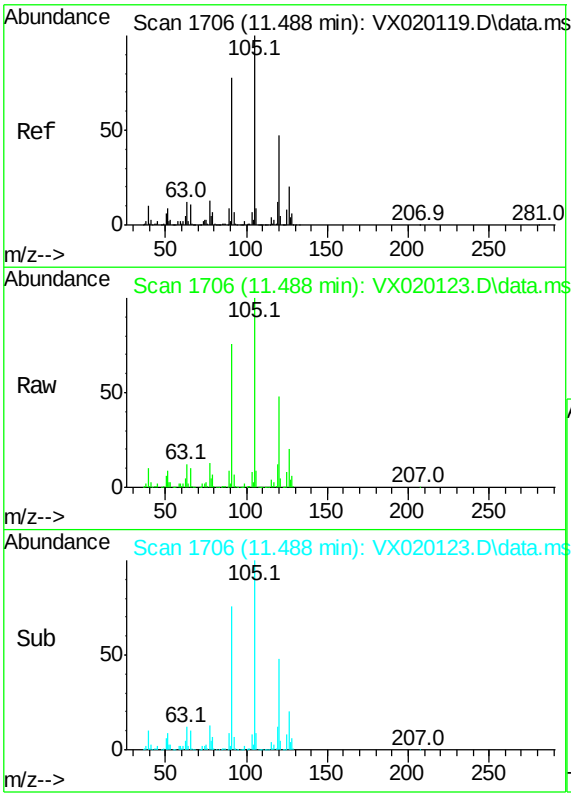


#70
2-Chlorotoluene
Concen: 52.43 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 91 Resp: 550986

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.6	49.8

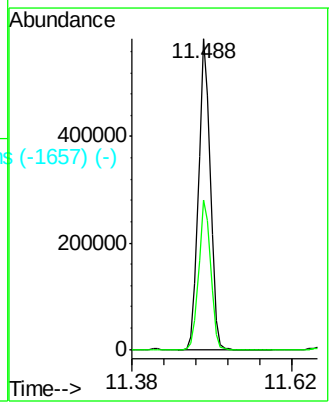




#89
1,3,5-Trimethylbenzene
Concen: 54.76 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:105 Resp: 678777

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

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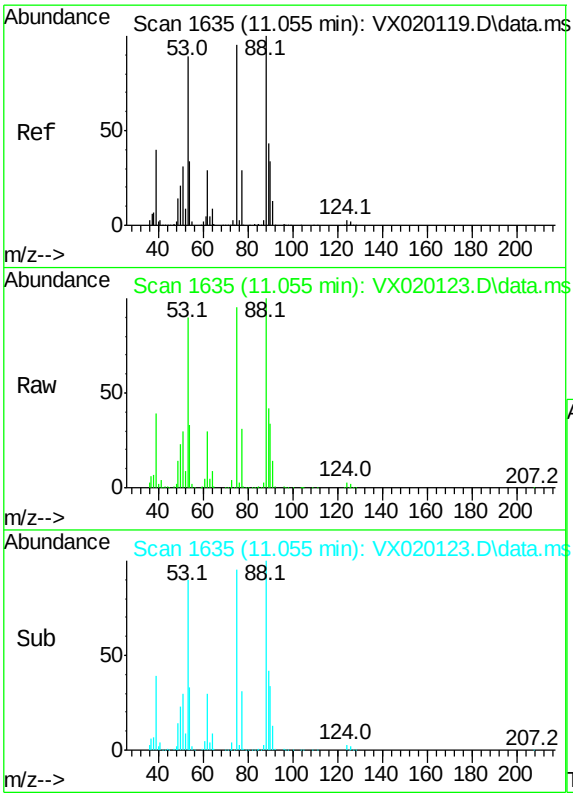
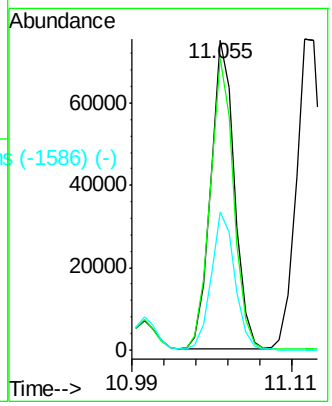
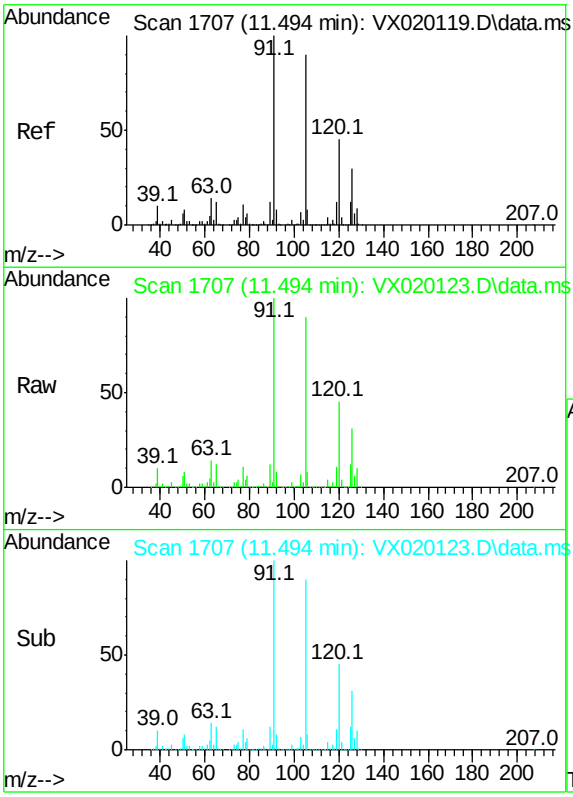


#81
trans-1,4-Dichloro-2-butene
Concen: 53.22 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 75 Resp: 89540

Ion	Ratio	Lower	Upper
75	100		
53	93.8	74.5	111.7
89	44.5	37.9	56.9

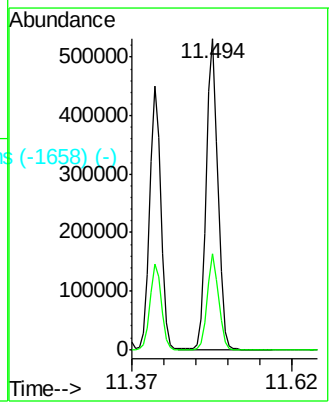




#82
4-Chlorotoluene
Concen: 52.55 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 91 Resp: 644987

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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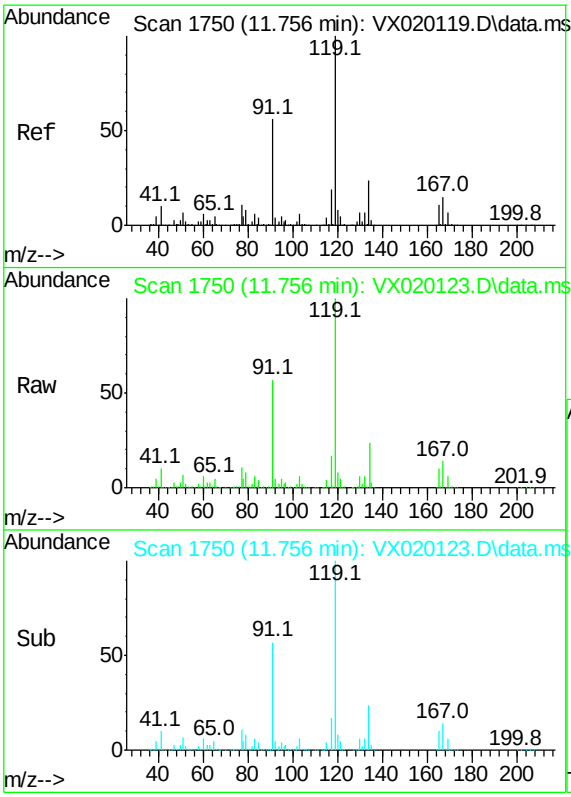
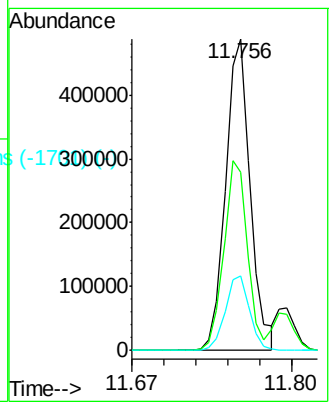
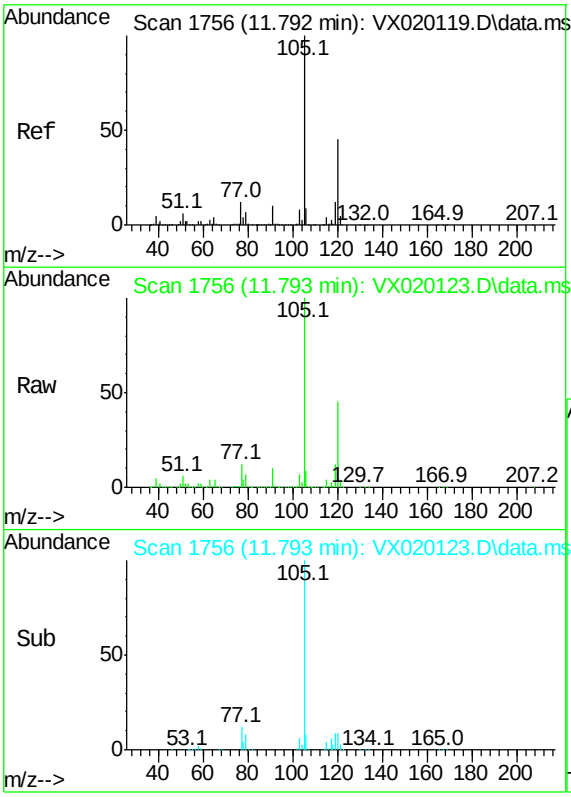


#83
tert-Butylbenzene
Concen: 54.44 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:119 Resp: 647648

Ion	Ratio	Lower	Upper
119	100		
91	58.0	27.9	83.7
134	23.2	11.3	33.9

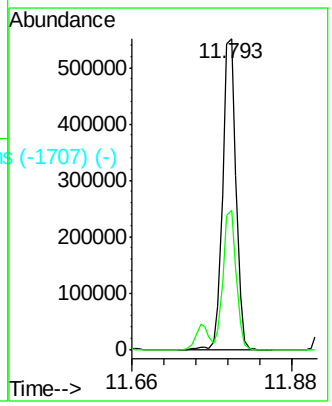




#84
1,2,4-Trimethylbenzene
Concen: 55.11 ug/l
RT: 11.793 min Scan# 1756
Delta R.T. 0.001 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:105 Resp: 693431

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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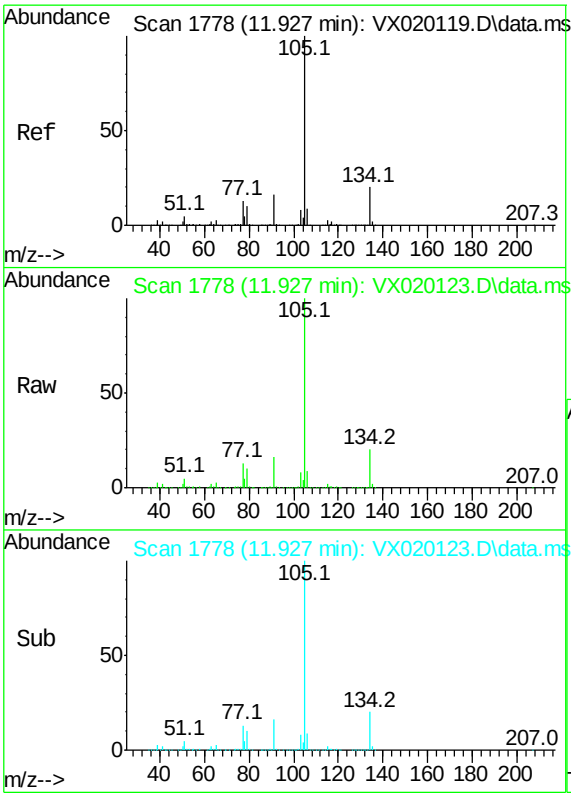
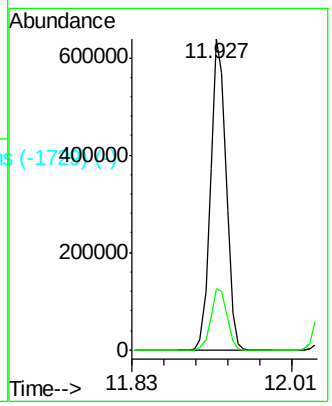
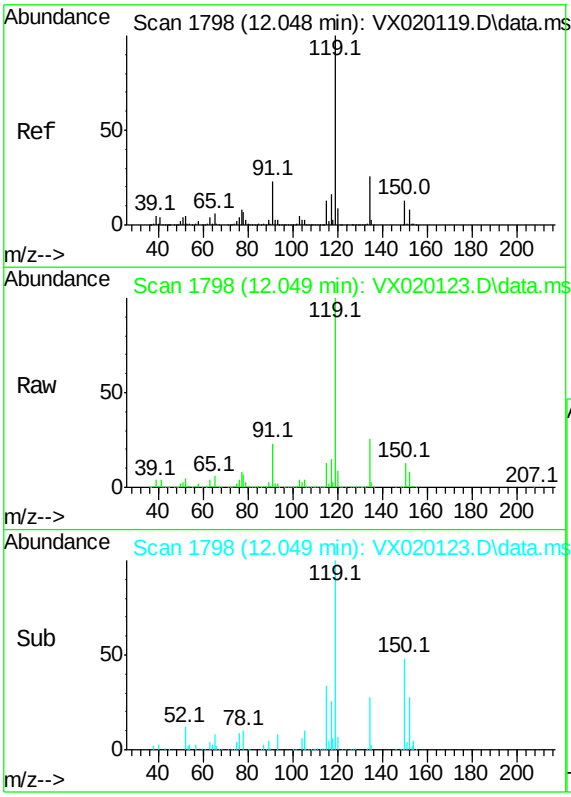


#85
sec-Butylbenzene
Concen: 55.93 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:105 Resp: 767795

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	29.8

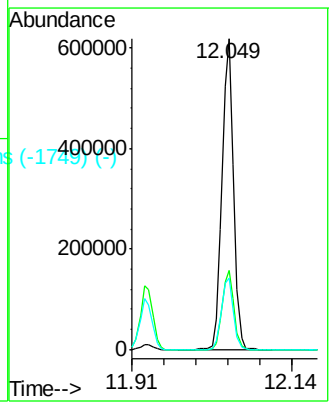




#86
p-Isopropyltoluene
Concen: 56.87 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.001 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:119 Resp: 719893

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.9	38.7
91	23.6	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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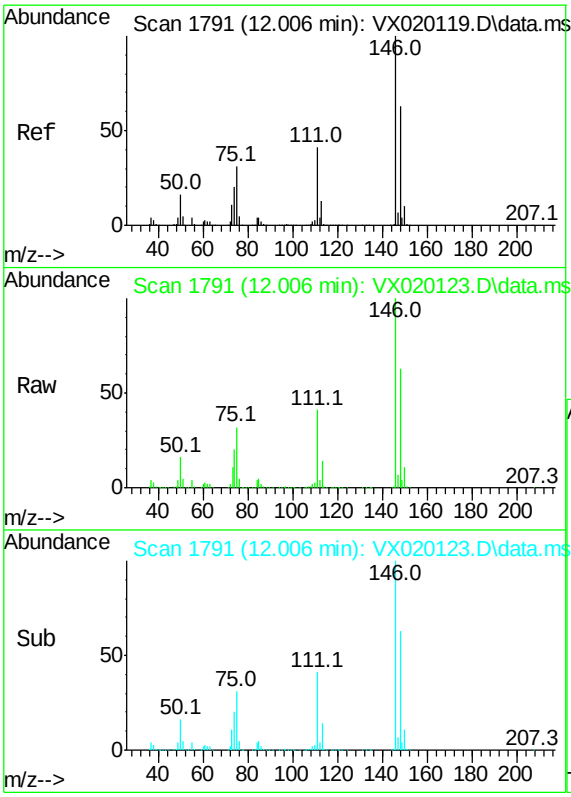
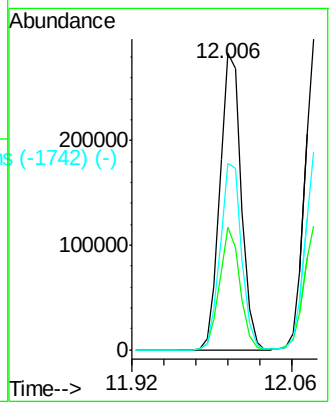
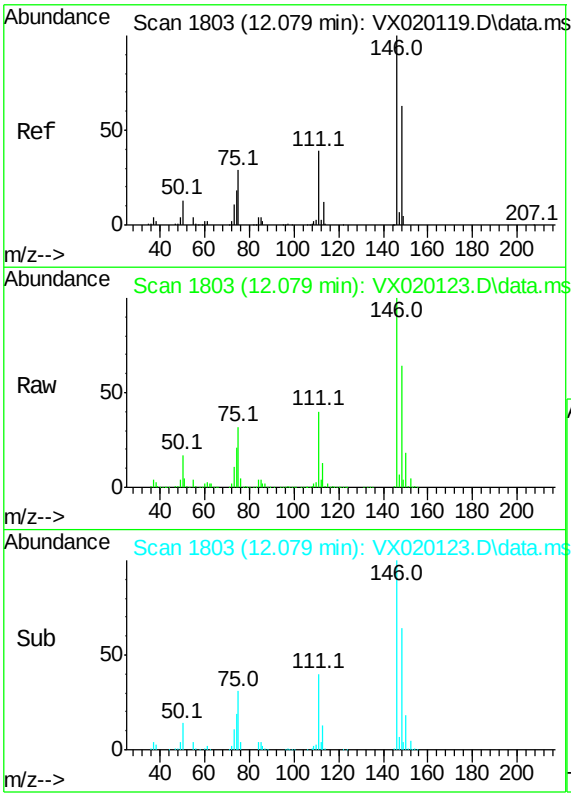


#87
1,3-Dichlorobenzene
Concen: 52.23 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:146 Resp: 360937

Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.2	60.5
148	63.1	31.9	95.7

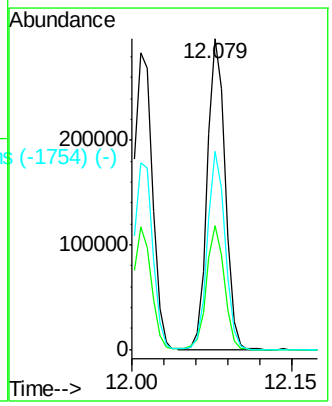




#88
1,4-Dichlorobenzene
Concen: 50.01 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:146 Resp: 360552

Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.6	58.8
148	62.7	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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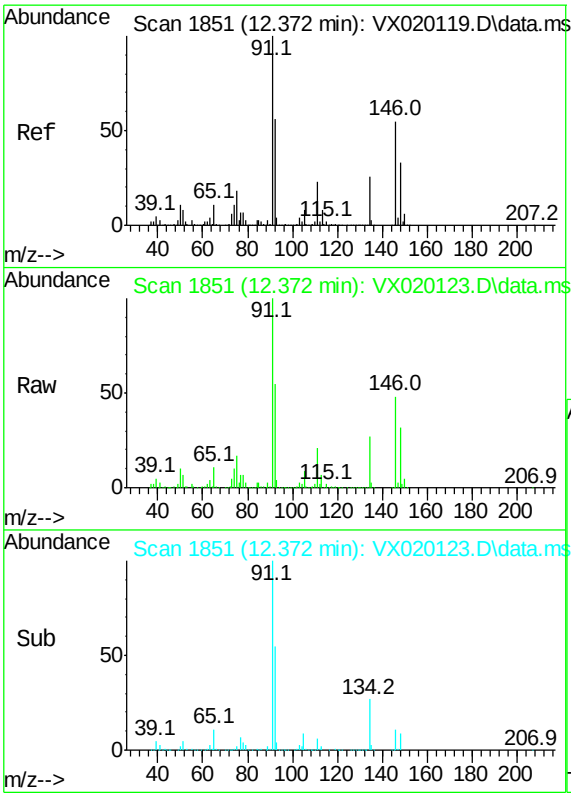
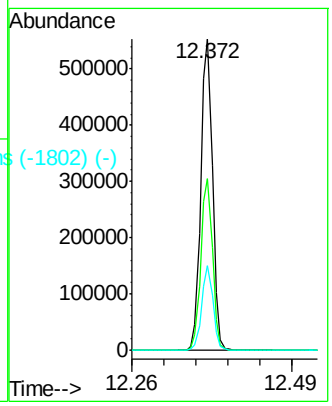
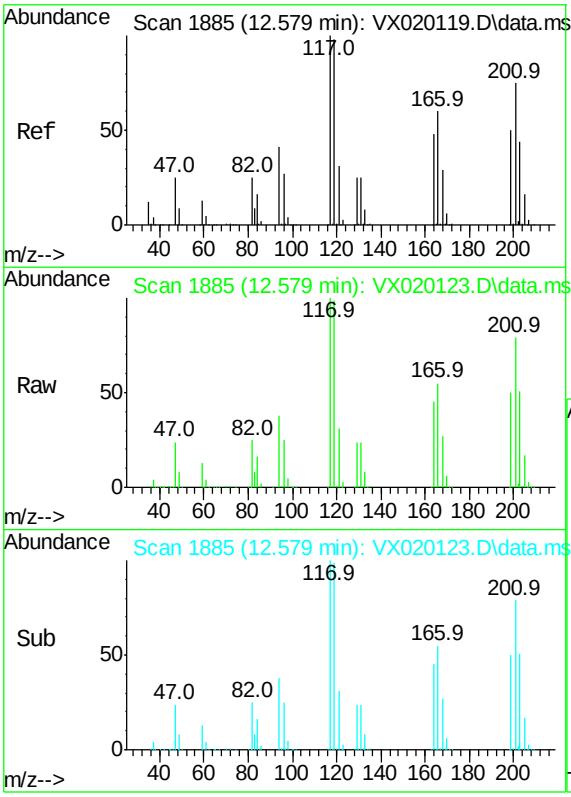


#89
n-Butylbenzene
Concen: 57.62 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 91 Resp: 639029

Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.4	82.0
134	26.0	13.2	39.5

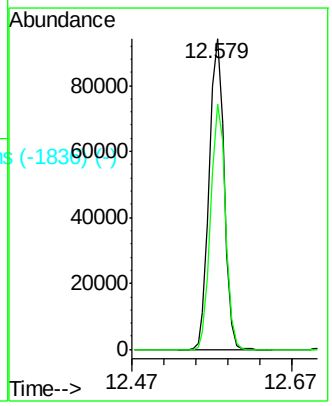




#90
Hexachloroethane
Concen: 55.60 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:117 Resp: 121417

Ion	Ratio	Lower	Upper
117	100		
201	79.0	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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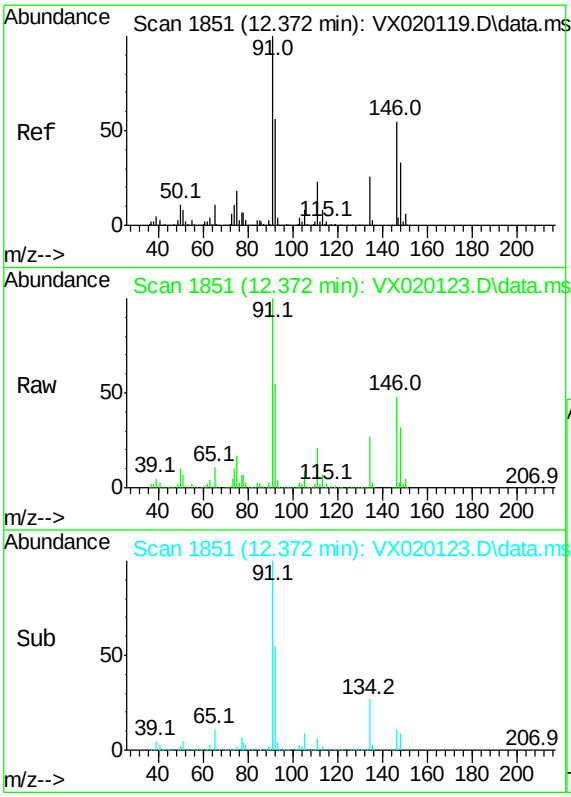
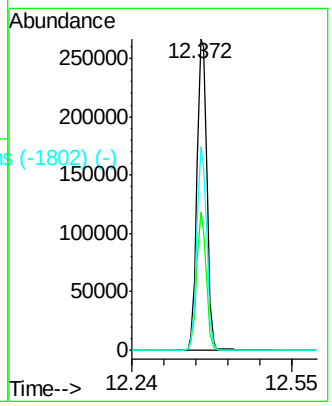
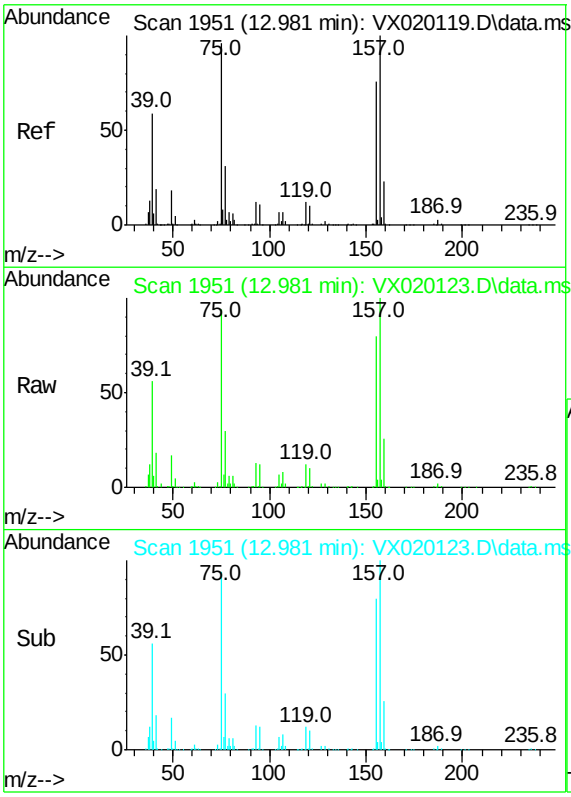


#91
1,2-Dichlorobenzene
Concen: 50.59 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:146 Resp: 347869

Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.8	62.2
148	64.0	31.9	95.5

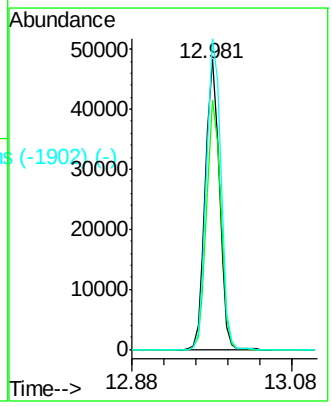




#92
1,2-Dibromo-3-Chloropropane
Concen: 52.41 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion: 75 Resp: 58406

Ion	Ratio	Lower	Upper
75	100		
155	86.6	45.3	135.9
157	109.8	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Manual Integrations APPROVED
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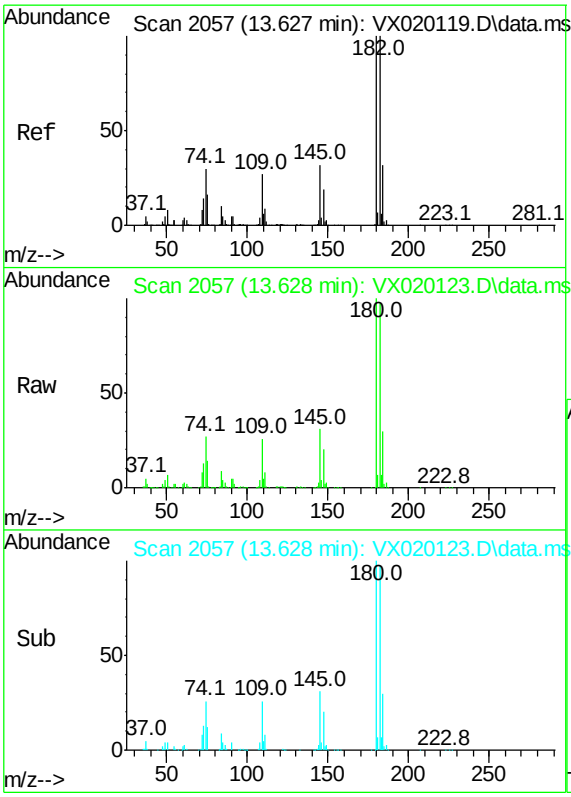
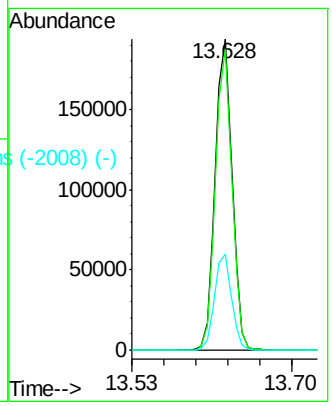
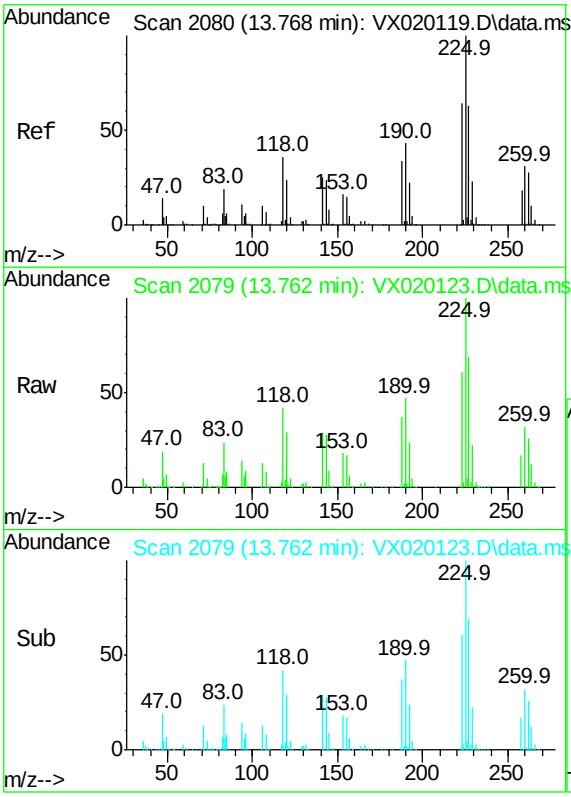


#93
1,2,4-Trichlorobenzene
Concen: 53.24 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.001 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:180 Resp: 235437

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.7	143.1
145	30.7	15.0	45.0

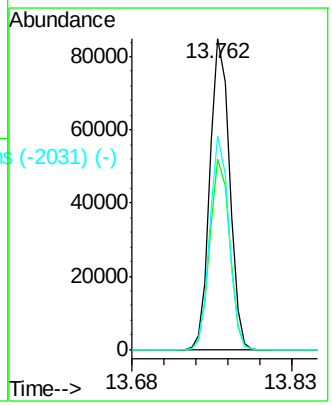




#94
Hexachlorobutadiene
Concen: 56.01 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:225 Resp: 104603

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.1	93.2
227	66.5	31.6	95.0



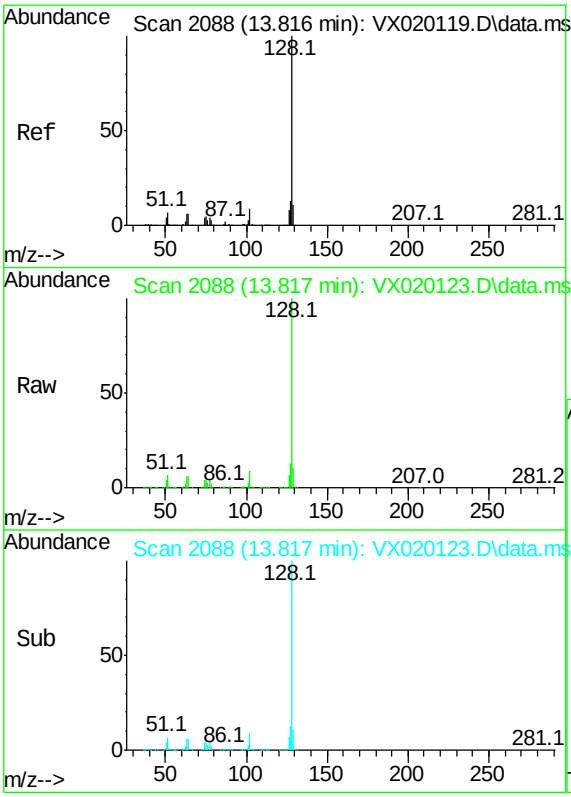
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

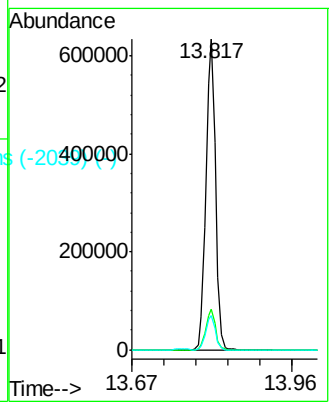
Manual Integrations APPROVED
MMDadoda
12/21/2020 3:58:15 PM

#95
Naphthalene
Concen: 55.38 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.001 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:128 Resp: 775486

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.1	8.8	13.2

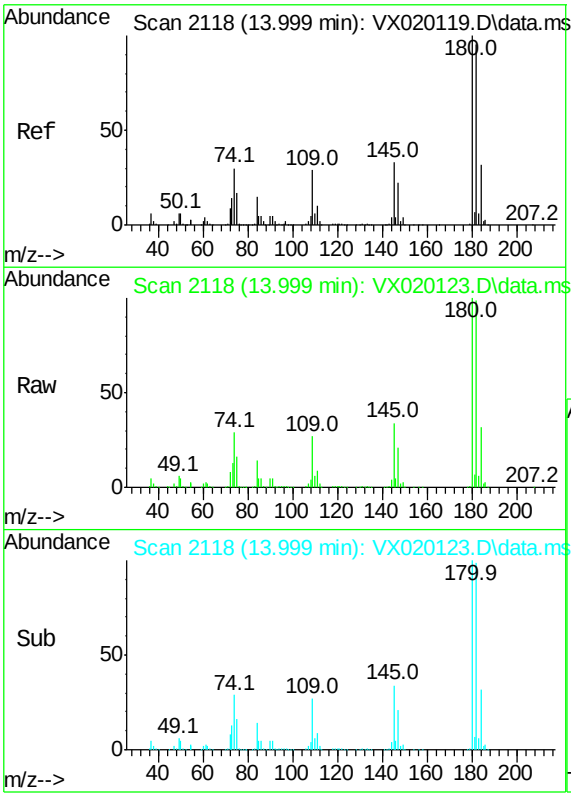


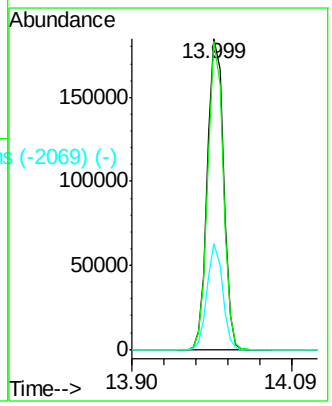


#96
1,2,3-Trichlorobenzene
Concen: 53.22 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020123.D
Acq: 18 Dec 2020 13:32

Tgt Ion:180 Resp: 232808

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.9
145	32.7	16.1	48.3





Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX121820

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	124	0.00
2	T	Dichlorodifluoromethane	50.000	54.537	-9.1	144	0.00
3	P	Chloromethane	50.000	50.496	-1.0	127	0.00
4	C	Vinyl Chloride	50.000	50.734	-1.5#	134	0.00
5	T	Bromomethane	50.000	51.008	-2.0	133	0.00
6	T	Chloroethane	50.000	50.429	-0.9	124	0.00
7	T	Trichlorofluoromethane	50.000	52.183	-4.4	141	0.00
8	T	Diethyl Ether	50.000	49.066	1.9	113	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.899	-7.8	146	0.00
10	T	Methyl Iodide	50.000	44.305	11.4	111	0.00
11	T	Tert butyl alcohol	250.000	224.883	10.0	115	0.00
12	CM	1,1-Dichloroethene	50.000	51.060	-2.1#	135	0.00
13	T	Acrolein	250.000	252.521	-1.0	124	0.00
14	T	Allyl chloride	50.000	49.799	0.4	121	0.00
15	T	Acrylonitrile	250.000	241.345	3.5	112	0.00
16	T	Acetone	250.000	240.901	3.6	118	0.00
17	T	Carbon Disulfide	50.000	50.910	-1.8	135	0.00
18	T	Methyl Acetate	50.000	47.743	4.5	112	0.00
19	T	Methyl tert-butyl Ether	50.000	50.018	-0.0	113	0.00
20	T	Methylene Chloride	50.000	47.179	5.6	115	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.610	0.8	124	0.00
22	T	Diisopropyl ether	50.000	50.371	-0.7	115	0.00
23	T	Vinyl Acetate	250.000	254.589	-1.8	112	0.00
24	P	1,1-Dichloroethane	50.000	49.759	0.5	120	0.00
25	T	2-Butanone	250.000	248.542	0.6	116	0.00
26	T	2,2-Dichloropropane	50.000	51.410	-2.8	129	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.851	0.3	119	0.00
28	T	Bromochloromethane	50.000	48.483	3.0	116	0.00
29	T	Tetrahydrofuran	250.000	244.899	2.0	112	0.00
30	C	Chloroform	50.000	49.411	1.2#	117	0.00
31	T	Cyclohexane	50.000	54.442	-8.9	145	0.00
32	T	1,1,1-Trichloroethane	50.000	51.520	-3.0	130	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.006	6.0	111	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	114	0.00
35	S	Dibromofluoromethane	50.000	49.690	0.6	113	0.00
36	T	1,1-Dichloropropene	50.000	53.022	-6.0	134	0.00
37	T	Ethyl Acetate	50.000	50.761	-1.5	113	0.00
38	T	Carbon Tetrachloride	50.000	54.263	-8.5	134	0.00
39	T	Methylcyclohexane	50.000	56.960	-13.9	148	0.00
40	TM	Benzene	50.000	51.846	-3.7	120	0.00
41	T	Methacrylonitrile	50.000	51.440	-2.9	110	0.00
42	TM	1,2-Dichloroethane	50.000	51.154	-2.3	114	0.00
43	T	Isopropyl Acetate	50.000	51.873	-3.7	114	0.00
44	TM	Trichloroethene	50.000	51.656	-3.3	125	0.00
45	C	1,2-Dichloropropane	50.000	51.642	-3.3#	116	0.00
46	T	Dibromomethane	50.000	49.282	1.4	110	0.00
47	T	Bromodichloromethane	50.000	52.536	-5.1	115	0.00
48	T	Methyl methacrylate	50.000	52.806	-5.6	113	0.00
49	T	1,4-Dioxane	1000.000	1010.138	-1.0	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX121820

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820w.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	S	Toluene-d8	50.000	50.393	-0.8	117	0.00
51	T	4-Methyl-2-Pentanone	250.000	259.734	-3.9	112	0.00
52	CM	Toluene	50.000	52.851	-5.7#	121	0.00
53	T	t-1,3-Dichloropropene	50.000	54.068	-8.1	116	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.450	-6.9	115	0.00
55	T	1,1,2-Trichloroethane	50.000	50.940	-1.9	113	0.00
56	T	Ethyl methacrylate	50.000	55.051	-10.1	116	0.00
57	T	1,3-Dichloropropane	50.000	51.409	-2.8	113	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	270.925	-8.4	118	0.00
59	T	2-Hexanone	250.000	264.399	-5.8	115	0.00
60	T	Dibromochloromethane	50.000	53.319	-6.6	115	0.00
61	T	1,2-Dibromoethane	50.000	51.760	-3.5	114	0.00
62	S	4-Bromofluorobenzene	50.000	50.170	-0.3	117	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	111	0.00
64	T	Tetrachloroethene	50.000	50.908	-1.8	127	0.00
65	PM	Chlorobenzene	50.000	51.791	-3.6	118	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.983	-6.0	118	0.00
67	C	Ethyl Benzene	50.000	53.579	-7.2#	123	0.00
68	T	m/p-Xylenes	100.000	109.500	-9.5	123	0.00
69	T	o-Xylene	50.000	53.642	-7.3	118	0.00
70	T	Styrene	50.000	54.683	-9.4	117	0.00
71	P	Bromoform	50.000	53.392	-6.8	118	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	112	0.00
73	T	Isopropylbenzene	50.000	54.375	-8.8	127	0.00
74	T	N-amyl acetate	50.000	53.820	-7.6	114	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.622	-1.2	114	0.00
76	T	1,2,3-Trichloropropane	50.000	50.545	-1.1	115	0.00
77	T	Bromobenzene	50.000	51.001	-2.0	120	0.00
78	T	n-propylbenzene	50.000	55.059	-10.1	128	0.00
79	T	2-Chlorotoluene	50.000	52.430	-4.9	120	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.761	-9.5	124	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	53.224	-6.4	115	0.00
82	T	4-Chlorotoluene	50.000	52.547	-5.1	119	0.00
83	T	tert-Butylbenzene	50.000	54.445	-8.9	127	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.114	-10.2	122	0.00
85	T	sec-Butylbenzene	50.000	55.932	-11.9	134	0.00
86	T	p-Isopropyltoluene	50.000	56.866	-13.7	132	0.00
87	T	1,3-Dichlorobenzene	50.000	52.229	-4.5	119	0.00
88	T	1,4-Dichlorobenzene	50.000	50.010	-0.0	118	0.00
89	T	n-Butylbenzene	50.000	57.616	-15.2	137	0.00
90	T	Hexachloroethane	50.000	55.596	-11.2	133	0.00
91	T	1,2-Dichlorobenzene	50.000	50.589	-1.2	116	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.405	-4.8	114	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.243	-6.5	123	0.00
94	T	Hexachlorobutadiene	50.000	56.009	-12.0	152	0.00
95	T	Naphthalene	50.000	55.375	-10.8	118	0.00
96	T	1,2,3-Trichlorobenzene	50.000	53.217	-6.4	123	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX121820

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	124	0.00
2	T	Dichlorodifluoromethane	0.543	0.592	-9.0	144	0.00
3	P	Chloromethane	0.630	0.636	-1.0	127	0.00
4	C	Vinyl Chloride	0.686	0.696	-1.5#	134	0.00
5	T	Bromomethane	0.220	0.224	-1.8	133	0.00
6	T	Chloroethane	0.427	0.431	-0.9	124	0.00
7	T	Trichlorofluoromethane	0.882	0.921	-4.4	141	0.00
8	T	Diethyl Ether	0.384	0.377	1.8	113	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.499	0.538	-7.8	146	0.00
10	T	Methyl Iodide	0.622	0.591	5.0	111	0.00
11	T	Tert butyl alcohol	0.150	0.135	10.0	115	0.00
12	CM	1,1-Dichloroethene	0.511	0.522	-2.2#	135	0.00
13	T	Acrolein	0.094	0.095	-1.1	124	0.00
14	T	Allyl chloride	0.906	0.903	0.3	121	0.00
15	T	Acrylonitrile	0.345	0.333	3.5	112	0.00
16	T	Acetone	0.306	0.295	3.6	118	0.00
17	T	Carbon Disulfide	1.509	1.536	-1.8	135	0.00
18	T	Methyl Acetate	0.682	0.651	4.5	112	0.00
19	T	Methyl tert-butyl Ether	1.912	1.913	-0.1	113	0.00
20	T	Methylene Chloride	0.689	0.650	5.7	115	0.00
21	T	trans-1,2-Dichloroethene	0.620	0.615	0.8	124	0.00
22	T	Diisopropyl ether	1.850	1.864	-0.8	115	0.00
23	T	Vinyl Acetate	1.577	1.606	-1.8	112	0.00
24	P	1,1-Dichloroethane	1.090	1.084	0.6	120	0.00
25	T	2-Butanone	0.445	0.442	0.7	116	0.00
26	T	2,2-Dichloropropane	0.899	0.925	-2.9	129	0.00
27	T	cis-1,2-Dichloroethene	0.699	0.697	0.3	119	0.00
28	T	Bromochloromethane	0.485	0.471	2.9	116	0.00
29	T	Tetrahydrofuran	0.280	0.274	2.1	112	0.00
30	C	Chloroform	1.109	1.096	1.2#	117	0.00
31	T	Cyclohexane	0.924	1.006	-8.9	145	0.00
32	T	1,1,1-Trichloroethane	0.925	0.953	-3.0	130	0.00
33	S	1,2-Dichloroethane-d4	0.670	0.630	6.0	111	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	114	0.00
35	S	Dibromofluoromethane	0.320	0.318	0.6	113	0.00
36	T	1,1-Dichloropropene	0.494	0.524	-6.1	134	0.00
37	T	Ethyl Acetate	0.514	0.521	-1.4	113	0.00
38	T	Carbon Tetrachloride	0.470	0.510	-8.5	134	0.00
39	T	Methylcyclohexane	0.570	0.650	-14.0	148	0.00
40	TM	Benzene	1.538	1.595	-3.7	120	0.00
41	T	Methacrylonitrile	0.274	0.281	-2.6	110	0.00
42	TM	1,2-Dichloroethane	0.528	0.540	-2.3	114	0.00
43	T	Isopropyl Acetate	0.811	0.841	-3.7	114	0.00
44	TM	Trichloroethene	0.398	0.411	-3.3	125	0.00
45	C	1,2-Dichloropropane	0.389	0.402	-3.3#	116	0.00
46	T	Dibromomethane	0.266	0.262	1.5	110	0.00
47	T	Bromodichloromethane	0.507	0.533	-5.1	115	0.00
48	T	Methyl methacrylate	0.397	0.420	-5.8	113	0.00
49	T	1,4-Dioxane	0.009	0.009	0.0	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX121820

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820w.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	S	Toluene-d8	1.231	1.241	-0.8	117	0.00
51	T	4-Methyl-2-Pentanone	0.502	0.521	-3.8	112	0.00
52	CM	Toluene	0.939	0.992	-5.6#	121	0.00
53	T	t-1,3-Dichloropropene	0.558	0.603	-8.1	116	0.00
54	T	cis-1,3-Dichloropropene	0.612	0.655	-7.0	115	0.00
55	T	1,1,2-Trichloroethane	0.387	0.394	-1.8	113	0.00
56	T	Ethyl methacrylate	0.567	0.624	-10.1	116	0.00
57	T	1,3-Dichloropropane	0.659	0.678	-2.9	113	0.00
58	T	2-Chloroethyl Vinyl ether	0.300	0.325	-8.3	118	0.00
59	T	2-Hexanone	0.382	0.405	-6.0	115	0.00
60	T	Dibromochloromethane	0.384	0.410	-6.8	115	0.00
61	T	1,2-Dibromoethane	0.404	0.419	-3.7	114	0.00
62	S	4-Bromofluorobenzene	0.471	0.473	-0.4	117	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
64	T	Tetrachloroethene	0.377	0.384	-1.9	127	0.00
65	PM	Chlorobenzene	1.073	1.111	-3.5	118	0.00
66	T	1,1,1,2-Tetrachloroethane	0.385	0.408	-6.0	118	0.00
67	C	Ethyl Benzene	1.875	2.009	-7.1#	123	0.00
68	T	m/p-Xylenes	0.700	0.767	-9.6	123	0.00
69	T	o-Xylene	0.674	0.723	-7.3	118	0.00
70	T	Styrene	1.139	1.246	-9.4	117	0.00
71	P	Bromoform	0.298	0.318	-6.7	118	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
73	T	Isopropylbenzene	3.609	3.924	-8.7	127	0.00
74	T	N-amyl acetate	1.455	1.566	-7.6	114	0.00
75	P	1,1,2,2-Tetrachloroethane	1.310	1.327	-1.3	114	0.00
76	T	1,2,3-Trichloropropane	1.232	1.245	-1.1	115	0.00
77	T	Bromobenzene	0.954	0.973	-2.0	120	0.00
78	T	n-propylbenzene	4.159	4.580	-10.1	128	0.00
79	T	2-Chlorotoluene	2.593	2.719	-4.9	120	0.00
80	T	1,3,5-Trimethylbenzene	3.059	3.350	-9.5	124	0.00
81	T	trans-1,4-Dichloro-2-butene	0.415	0.442	-6.5	115	0.00
82	T	4-Chlorotoluene	3.029	3.183	-5.1	119	0.00
83	T	tert-Butylbenzene	2.935	3.196	-8.9	127	0.00
84	T	1,2,4-Trimethylbenzene	3.105	3.422	-10.2	122	0.00
85	T	sec-Butylbenzene	3.387	3.789	-11.9	134	0.00
86	T	p-Isopropyltoluene	3.124	3.553	-13.7	132	0.00
87	T	1,3-Dichlorobenzene	1.705	1.781	-4.5	119	0.00
88	T	1,4-Dichlorobenzene	1.779	1.779	0.0	118	0.00
89	T	n-Butylbenzene	2.737	3.154	-15.2	137	0.00
90	T	Hexachloroethane	0.539	0.599	-11.1	133	0.00
91	T	1,2-Dichlorobenzene	1.697	1.717	-1.2	116	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.275	0.288	-4.7	114	0.00
93	T	1,2,4-Trichlorobenzene	1.091	1.162	-6.5	123	0.00
94	T	Hexachlorobutadiene	0.484	0.516	-6.6	152#	0.00
95	T	Naphthalene	3.456	3.827	-10.7	118	0.00
96	T	1,2,3-Trichlorobenzene	1.080	1.149	-6.4	123	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020123.D
Acq On : 18 Dec 2020 13:32
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121820

Quant Time: Dec 18 14:41:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG No.: L5236

Instrument ID: MSVOA_X Calibration Date/Time: 12/29/2020 09:57

Lab File ID: VX020423.D Init. Calib. Date(s): 12/18/2020 12/18/2020

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:28 12:43

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.543	0.483		-11.05	20
Chloromethane	0.630	0.525	0.1	-16.67	20
Vinyl Chloride	0.686	0.587		-14.43	20
Bromomethane	0.220	0.182		-17.27	20
Chloroethane	0.427	0.380		-11.01	20
Trichlorofluoromethane	0.882	0.790		-10.43	20
1,1,2-Trichlorotrifluoroethane	0.499	0.447		-10.42	20
1,1-Dichloroethene	0.511	0.453		-11.35	20
Acetone	0.306	0.309		0.98	20
Carbon Disulfide	1.509	1.304		-13.59	20
Methyl tert-butyl Ether	1.912	1.792		-6.28	20
Methyl Acetate	0.682	0.699		2.49	20
Methylene Chloride	0.689	0.596		-13.5	20
trans-1,2-Dichloroethene	0.620	0.552		-10.97	20
1,1-Dichloroethane	1.090	1.005	0.1	-7.8	20
Cyclohexane	0.924	0.885		-4.22	20
2-Butanone	0.445	0.458		2.92	20
Carbon Tetrachloride	0.470	0.483		2.77	20
cis-1,2-Dichloroethene	0.699	0.639		-8.58	20
Bromochloromethane	0.485	0.432		-10.93	20
Chloroform	1.109	1.005		-9.38	20
1,1,1-Trichloroethane	0.925	0.871		-5.84	20
Methylcyclohexane	0.570	0.604		5.97	20
Benzene	1.538	1.523		-0.98	20
1,2-Dichloroethane	0.528	0.492		-6.82	20
Trichloroethene	0.398	0.391		-1.76	20
1,2-Dichloropropane	0.389	0.397		2.06	20
Bromodichloromethane	0.507	0.520		2.56	20
4-Methyl-2-Pentanone	0.502	0.537		6.97	20
Toluene	0.939	0.957		1.92	20
t-1,3-Dichloropropene	0.558	0.582		4.3	20
cis-1,3-Dichloropropene	0.612	0.640		4.57	20
1,1,2-Trichloroethane	0.387	0.389		0.52	20
2-Hexanone	0.382	0.419		9.69	20
Dibromochloromethane	0.384	0.408		6.25	20
1,2-Dibromoethane	0.404	0.408		0.99	20
Tetrachloroethene	0.377	0.395		4.78	20
Chlorobenzene	1.073	1.057	0.3	-1.49	20
Ethyl Benzene	1.875	1.933		3.09	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: L5236 SAS No.: L5236 SDG No.: L5236

Instrument ID: MSVOA_X Calibration Date/Time: 12/29/2020 09:57

Lab File ID: VX020423.D Init. Calib. Date(s): 12/18/2020 12/18/2020

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:28 12:43

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.700	0.732		4.57	20
o-Xylene	0.674	0.699		3.71	20
Styrene	1.139	1.213		6.5	20
Bromoform	0.298	0.326	0.1	9.4	20
Isopropylbenzene	3.609	3.829		6.1	20
1,1,2,2-Tetrachloroethane	1.310	1.312	0.3	0.15	20
1,3-Dichlorobenzene	1.705	1.699		-0.35	20
1,4-Dichlorobenzene	1.779	1.698		-4.55	20
1,2-Dichlorobenzene	1.697	1.701		0.24	20
1,2-Dibromo-3-Chloropropane	0.275	0.288		4.73	20
1,2,4-Trichlorobenzene	1.091	1.174		7.61	20
1,2,3-Trichlorobenzene	1.080	1.159		7.32	20
1,2-Dichloroethane-d4	0.670	0.552		-17.61	20
Dibromofluoromethane	0.320	0.307		-4.06	20
Toluene-d8	1.231	1.177		-4.39	20
4-Bromofluorobenzene	0.471	0.460		-2.34	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.617	168	254429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.824	114	389578	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	365726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	182415	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	140319	41.14	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 82.28%			
35) Dibromofluoromethane	5.458	113	119776	48.06	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.12%			
50) Toluene-d8	8.696	98	458515	47.80	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 95.60%			
62) 4-Bromofluorobenzene	11.116	95	179062	48.77	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 97.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	122766	44.43	ug/l	97
3) Chloromethane	1.313	50	133506	41.67	ug/l	99
4) Vinyl Chloride	1.392	62	149306	42.78	ug/l	100
5) Bromomethane	1.624	94	46433	41.52	ug/l	99
6) Chloroethane	1.703	64	96787	44.53	ug/l	99
7) Trichlorofluoromethane	1.910	101	201097	44.80	ug/l	98
8) Diethyl Ether	2.166	74	85299	43.67	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.361	101	113695	44.76	ug/l	98
10) Methyl Iodide	2.489	142	132956	39.57	ug/l	99
11) Tert butyl alcohol	3.020	59	176809	231.52	ug/l	99
12) 1,1-Dichloroethene	2.349	96	115262	44.35	ug/l	95
13) Acrolein	2.270	56	107561	225.39	ug/l	100
14) Allyl chloride	2.703	41	220079	47.71	ug/l	92
15) Acrylonitrile	3.111	53	431174	245.40	ug/l	99
16) Acetone	2.416	43	392474	252.36	ug/l	98
17) Carbon Disulfide	2.544	76	331738	43.21	ug/l	100
18) Methyl Acetate	2.745	43	177771	51.25	ug/l	99
19) Methyl tert-butyl Ether	3.166	73	455937	46.86	ug/l	98
20) Methylene Chloride	2.831	84	151563	43.23	ug/l	98
21) trans-1,2-Dichloroethene	3.136	96	140318	44.50	ug/l	99
22) Diisopropyl ether	3.825	45	445338	47.30	ug/l	89
23) Vinyl Acetate	3.782	43	1906897	237.64	ug/l	99
24) 1,1-Dichloroethane	3.666	63	255674	46.11	ug/l	99
25) 2-Butanone	4.629	43	583256	257.68	ug/l	100
26) 2,2-Dichloropropane	4.544	77	216042	47.22	ug/l	100
27) cis-1,2-Dichloroethene	4.556	96	162457	45.64	ug/l	99
28) Bromochloromethane	4.971	49	109922	44.51	ug/l	97
29) Tetrahydrofuran	5.080	42	346552	243.37	ug/l	98
30) Chloroform	5.166	83	255770	45.30	ug/l	100
31) Cyclohexane	5.538	56	225060	47.86	ug/l	95
32) 1,1,1-Trichloroethane	5.458	97	221696	47.09	ug/l	98
36) 1,1-Dichloropropene	5.763	75	189565	49.24	ug/l	100
37) Ethyl Acetate	4.788	43	206756	51.67	ug/l	99
38) Carbon Tetrachloride	5.745	117	188146	51.38	ug/l	97
39) Methylcyclohexane	7.434	83	235483	52.99	ug/l	98
40) Benzene	6.105	78	593325	49.50	ug/l	99
41) Methacrylonitrile	4.995	41	113180	53.09	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	6.153	62	191832	46.66	ug/l		99
43) Isopropyl Acetate	6.403	43	327666	51.87	ug/l		99
44) Trichloroethene	7.184	130	152358	49.18	ug/l		97
45) 1,2-Dichloropropane	7.482	63	154728	51.08	ug/l		98
46) Dibromomethane	7.635	93	99398	47.97	ug/l		97
47) Bromodichloromethane	7.873	83	202656	51.30	ug/l		97
48) Methyl methacrylate	7.745	41	161030	52.02	ug/l		96
49) 1,4-Dioxane	7.708	88	77251	1066.12	ug/l		96
51) 4-Methyl-2-Pentanone	8.616	43	1045115	267.25	ug/l		99
52) Toluene	8.763	92	372679	50.95	ug/l		98
53) t-1,3-Dichloropropene	9.019	75	226554	52.14	ug/l		98
54) cis-1,3-Dichloropropene	8.409	75	249347	52.27	ug/l		96
55) 1,1,2-Trichloroethane	9.196	97	151378	50.18	ug/l		99
56) Ethyl methacrylate	9.153	69	240309	54.43	ug/l		96
57) 1,3-Dichloropropane	9.348	76	257950	50.23	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.287	63	591052	253.10	ug/l		99
59) 2-Hexanone	9.470	43	816929	274.13	ug/l		99
60) Dibromochloromethane	9.561	129	158969	53.11	ug/l		99
61) 1,2-Dibromoethane	9.653	107	158819	50.42	ug/l		99
64) Tetrachloroethene	9.317	164	144420	52.41	ug/l		96
65) Chlorobenzene	10.116	112	386651	49.28	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.201	131	147764	52.48	ug/l		100
67) Ethyl Benzene	10.232	91	706901	51.54	ug/l		99
68) m/p-Xylenes	10.342	106	535303	104.54	ug/l		100
69) o-Xylene	10.683	106	255523	51.85	ug/l		100
70) Styrene	10.695	104	443782	53.27	ug/l		100
71) Bromoform	10.842	173	119117	54.63	ug/l	#	98
73) Isopropylbenzene	11.000	105	698495	53.06	ug/l		99
74) N-amyl acetate	10.878	43	277070	52.21	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.250	83	239243	50.04	ug/l		100
76) 1,2,3-Trichloropropane	11.281	75	229031m	50.97	ug/l		
77) Bromobenzene	11.238	156	171839	49.38	ug/l		99
78) n-propylbenzene	11.341	91	800222	52.74	ug/l		100
79) 2-Chlorotoluene	11.402	91	480595	50.80	ug/l		100
80) 1,3,5-Trimethylbenzene	11.488	105	598656	53.65	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.055	75	82053	54.18	ug/l		94
82) 4-Chlorotoluene	11.494	91	562107	50.87	ug/l		99
83) tert-Butylbenzene	11.756	119	570495	53.27	ug/l		98
84) 1,2,4-Trimethylbenzene	11.787	105	598381	52.83	ug/l		100
85) sec-Butylbenzene	11.927	105	671622	54.35	ug/l		100
86) p-Isopropyltoluene	12.049	119	621772	54.56	ug/l		100
87) 1,3-Dichlorobenzene	12.006	146	309886	49.81	ug/l		99
88) 1,4-Dichlorobenzene	12.079	146	309802	47.73	ug/l		98
89) n-Butylbenzene	12.372	91	545835	54.67	ug/l		99
90) Hexachloroethane	12.579	117	105237	53.53	ug/l		96
91) 1,2-Dichlorobenzene	12.372	146	310245	50.12	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.981	75	52501	52.32	ug/l		99
93) 1,2,4-Trichlorobenzene	13.628	180	214139	53.79	ug/l		100
94) Hexachlorobutadiene	13.762	225	104204	61.69	ug/l		99
95) Naphthalene	13.817	128	702806	55.74	ug/l		99
96) 1,2,3-Trichlorobenzene	14.000	180	211363	53.67	ug/l		100

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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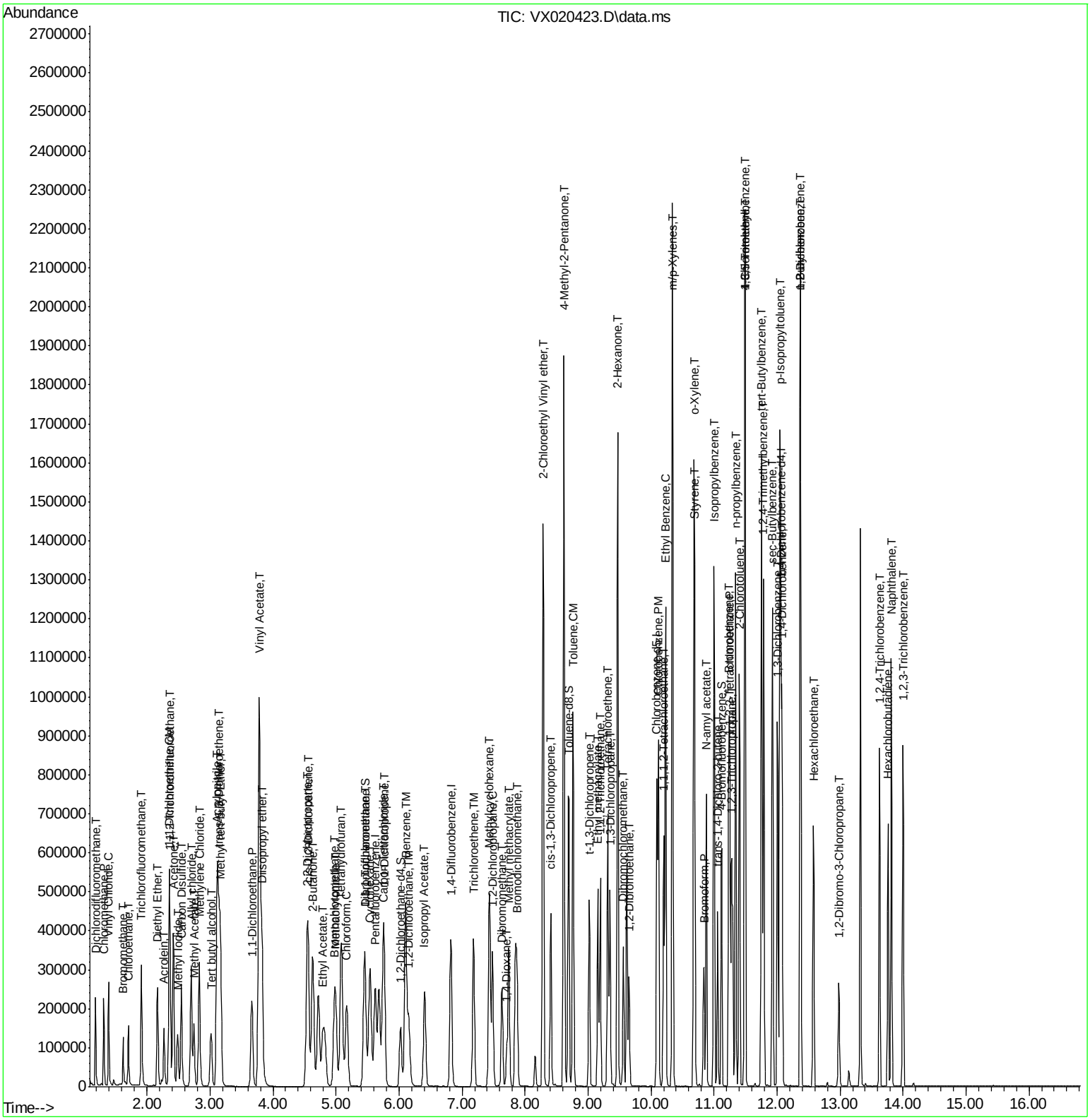
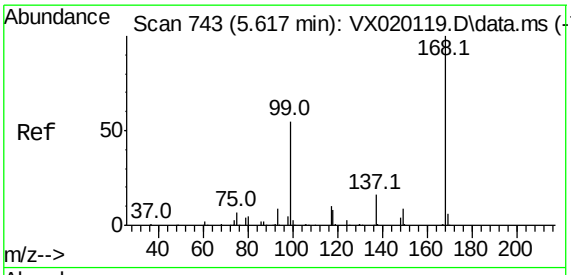
12/30/2020 2:23:42 PM



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

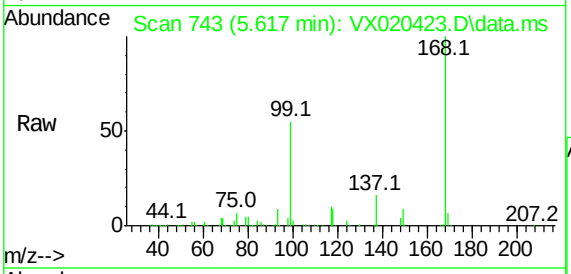
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

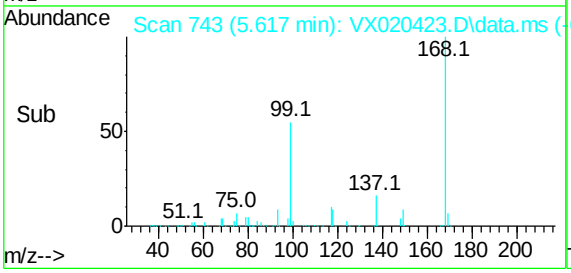


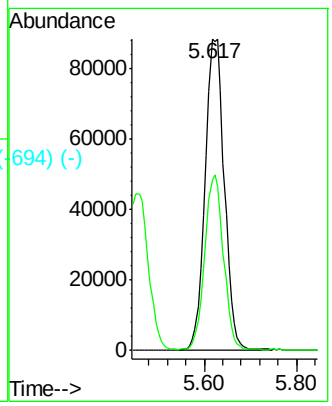
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.617 min Scan# 743
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

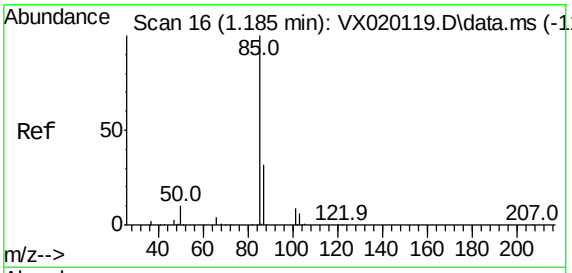
Tgt Ion:168 Resp: 254429

Ion	Ratio	Lower	Upper
168	100		
99	54.6	45.8	68.6





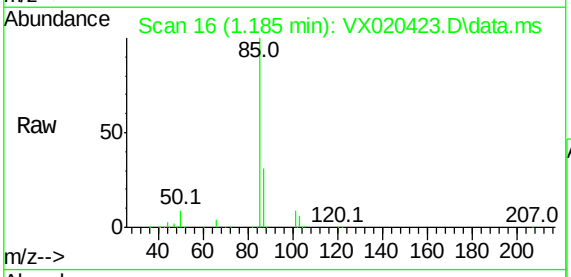


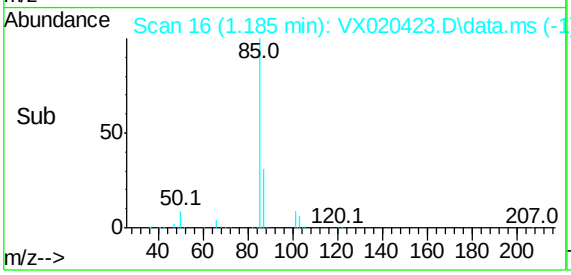


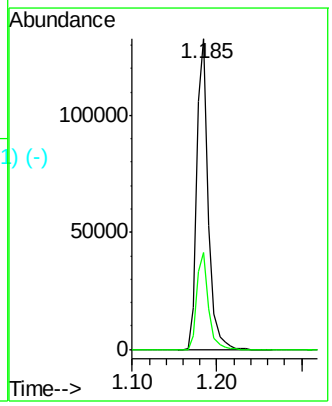
#2
Dichlorodifluoromethane
Concen: 44.43 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 85 Resp: 122766

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.4	49.2

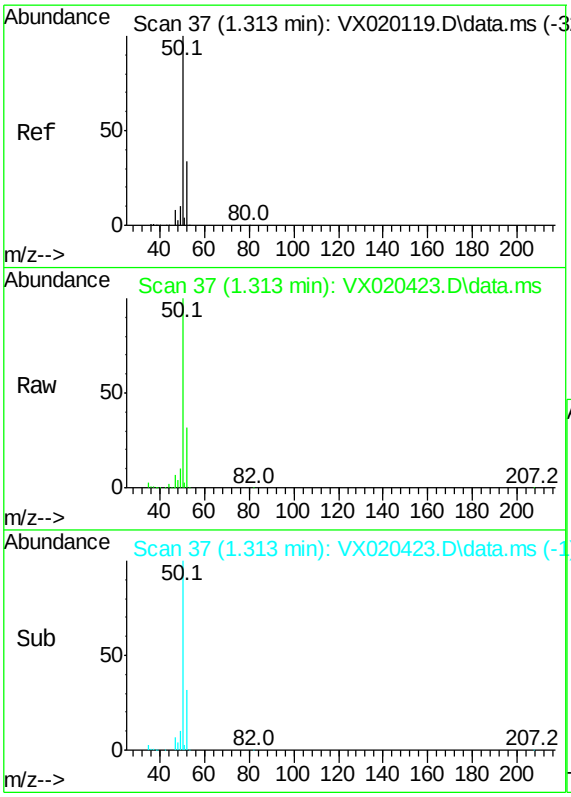






Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

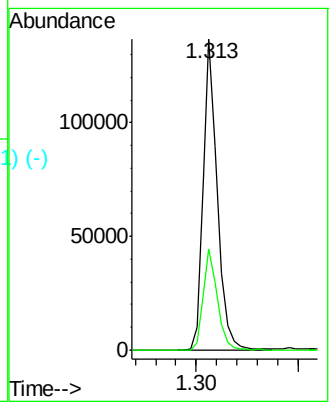
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

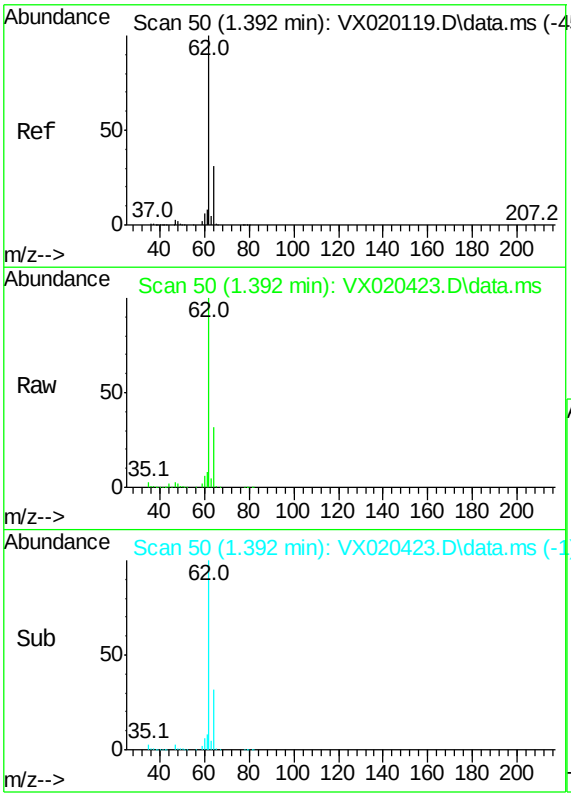


#3
Chloromethane
Concen: 41.67 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 50 Resp: 133506

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.4	39.6

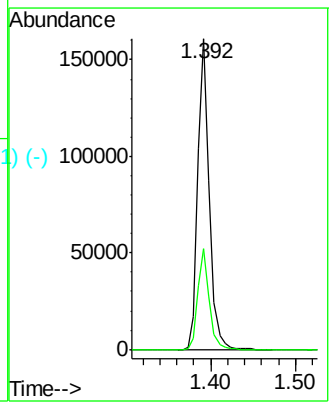




#4
Vinyl Chloride
Concen: 42.78 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 62 Resp: 149306

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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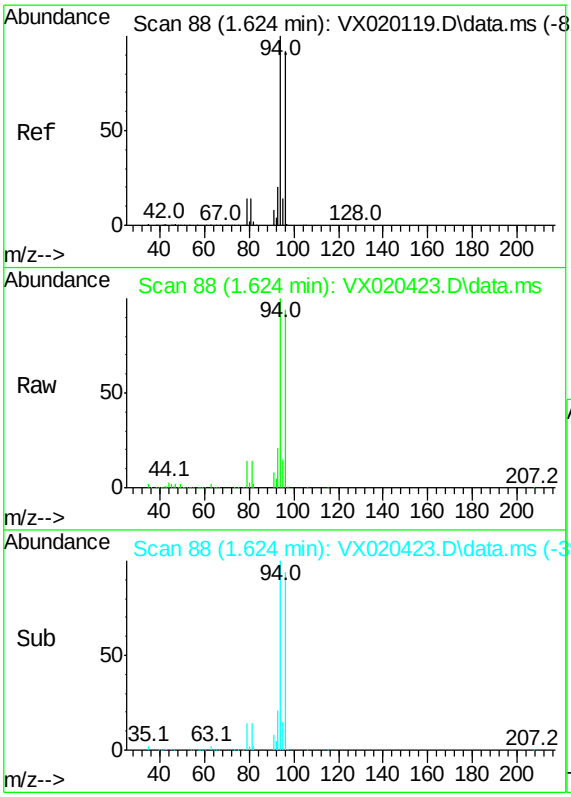
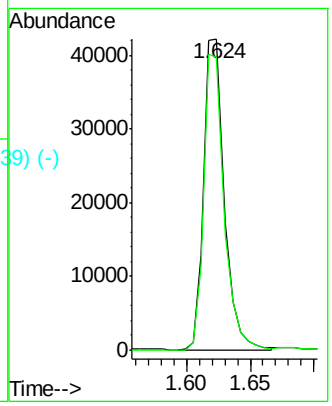
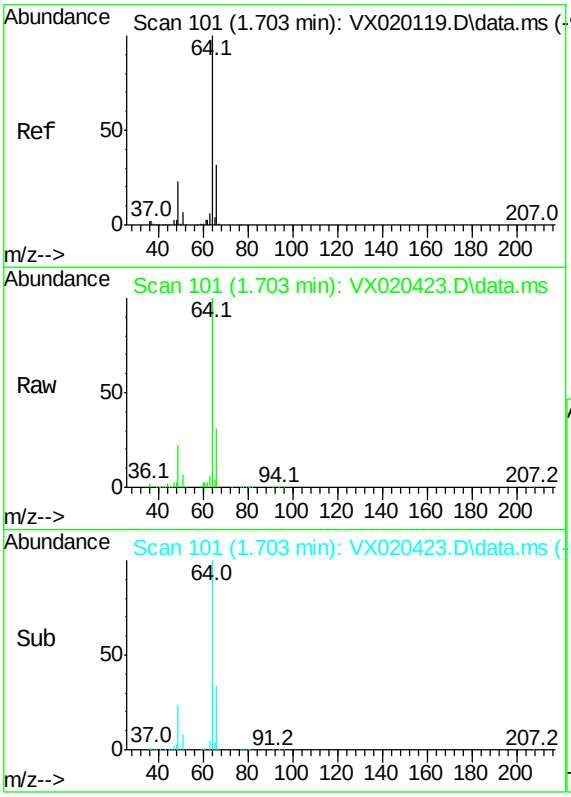


#5
Bromomethane
Concen: 41.52 ug/l
RT: 1.624 min Scan# 88
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 94 Resp: 46433

Ion	Ratio	Lower	Upper
94	100		
96	94.1	76.4	114.6

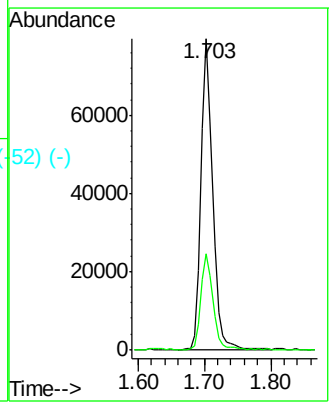




#6
Chloroethane
Concen: 44.53 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 64 Resp: 96787

Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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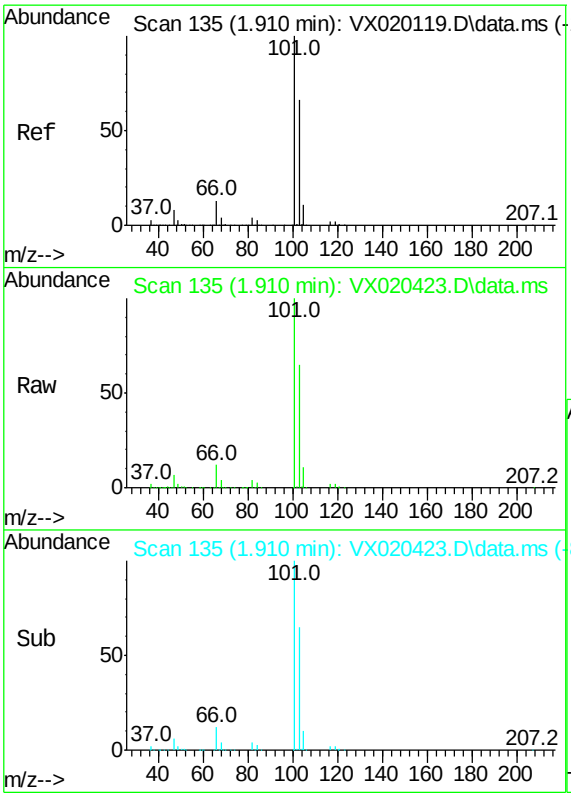
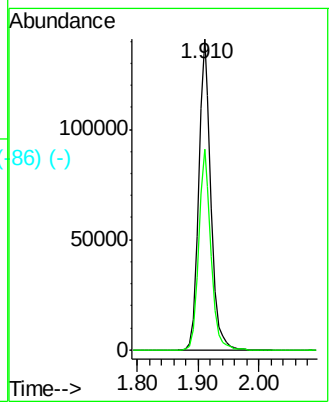
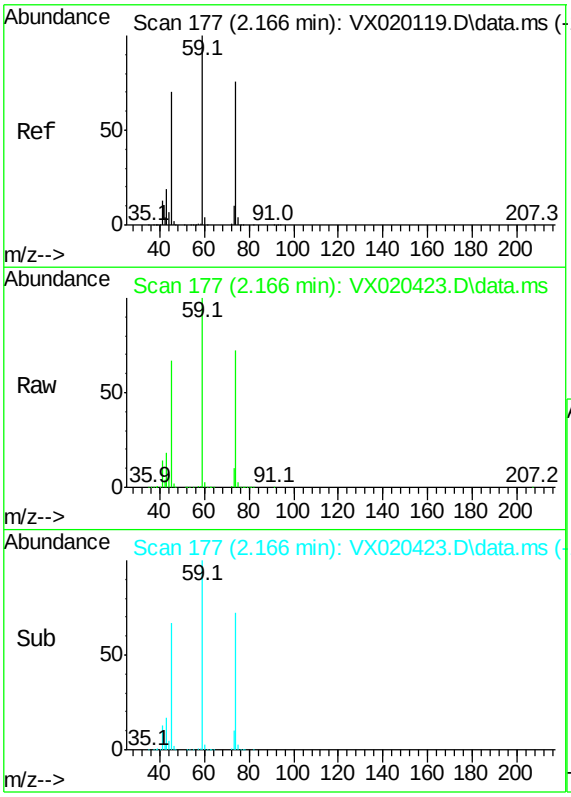


#7
Trichlorofluoromethane
Concen: 44.80 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:101 Resp: 201097

Ion	Ratio	Lower	Upper
101	100		
103	64.7	53.2	79.8

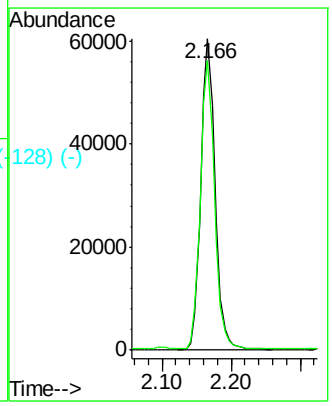




#8
Diethyl Ether
Concen: 43.67 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 74 Resp: 85299

Ion	Ratio	Lower	Upper
74	100		
45	92.5	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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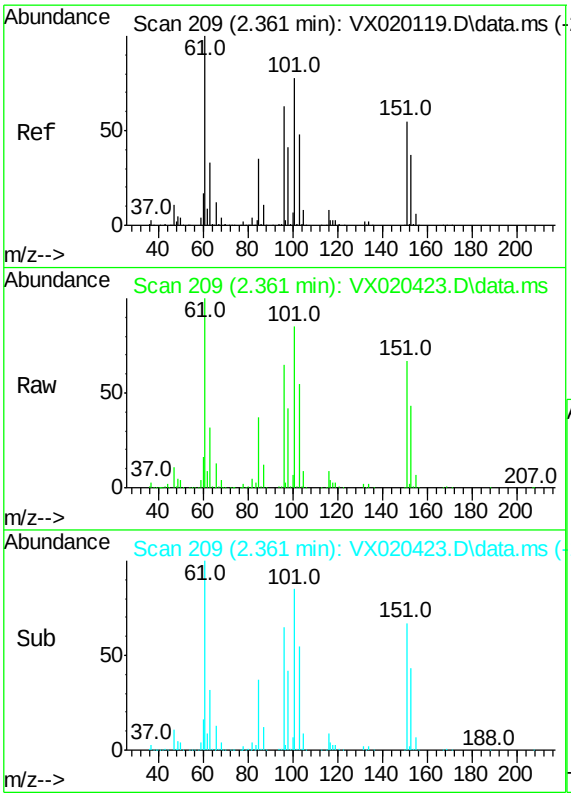
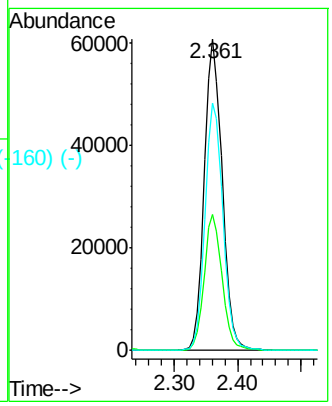
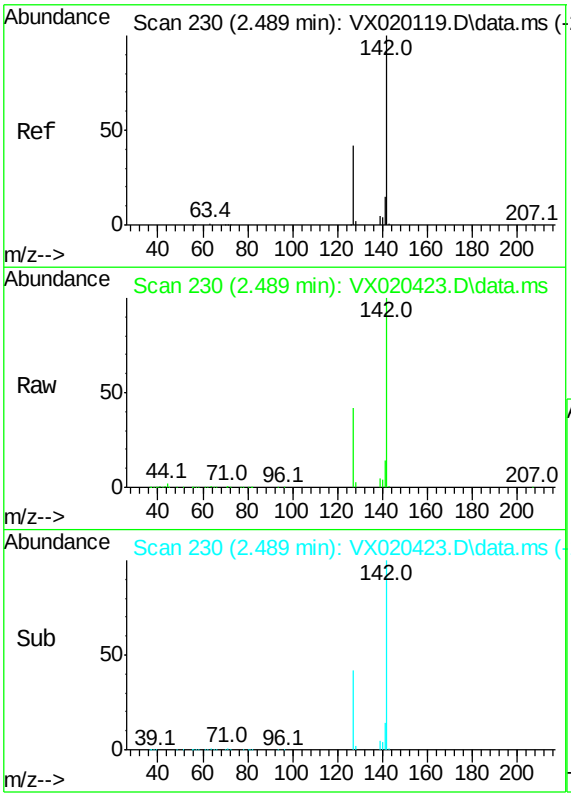


#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.76 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:101 Resp: 113695

Ion	Ratio	Lower	Upper
101	100		
85	43.3	34.9	52.3
151	79.4	61.4	92.2

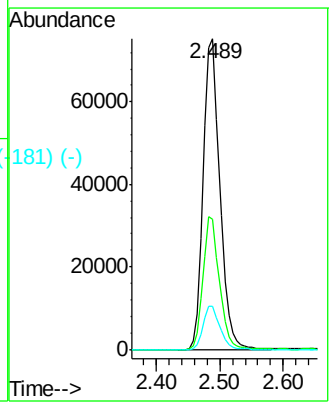




#10
Methyl Iodide
Concen: 39.57 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:142 Resp: 132956

Ion	Ratio	Lower	Upper
142	100		
127	42.2	33.3	49.9
141	14.1	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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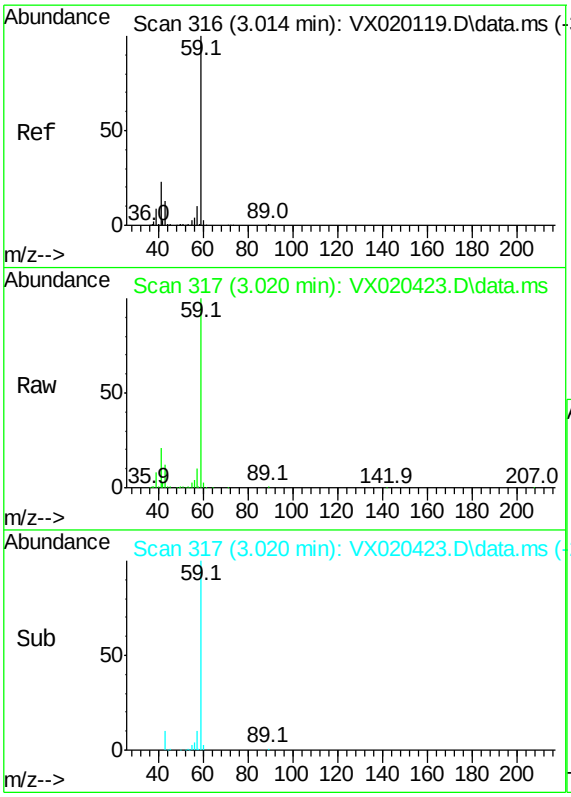
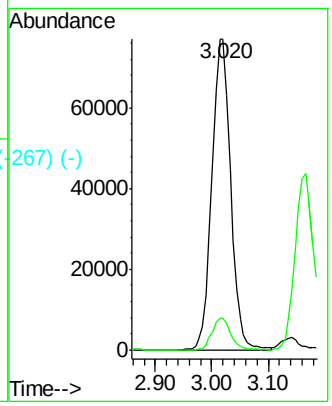
12/30/2020 2:23:42 PM

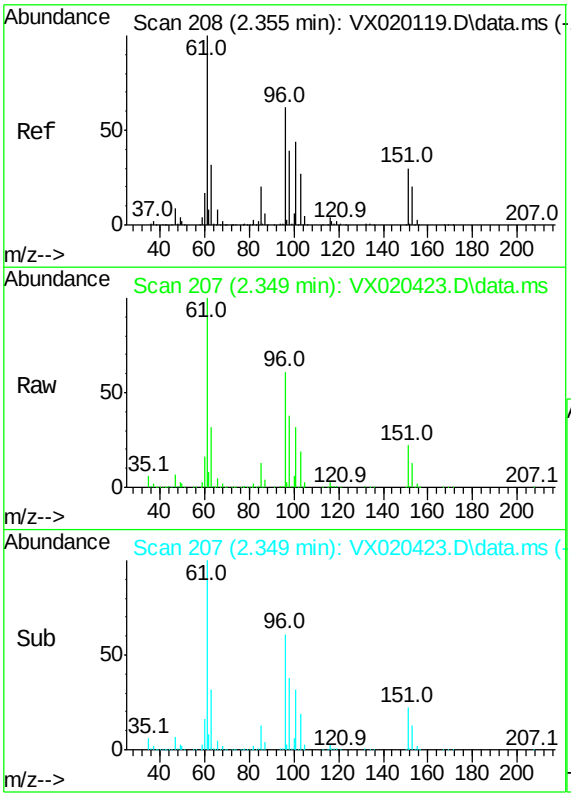


#11
Tert butyl alcohol
Concen: 231.52 ug/l
RT: 3.020 min Scan# 317
Delta R.T. 0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 59 Resp: 176809

Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.8	11.8

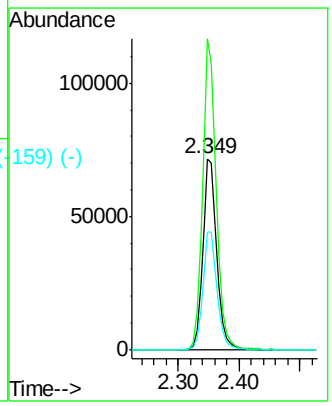




#12
1,1-Dichloroethene
Concen: 44.35 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 96 Resp: 115262

Ion	Ratio	Lower	Upper
96	100		
61	163.1	124.6	187.0
98	61.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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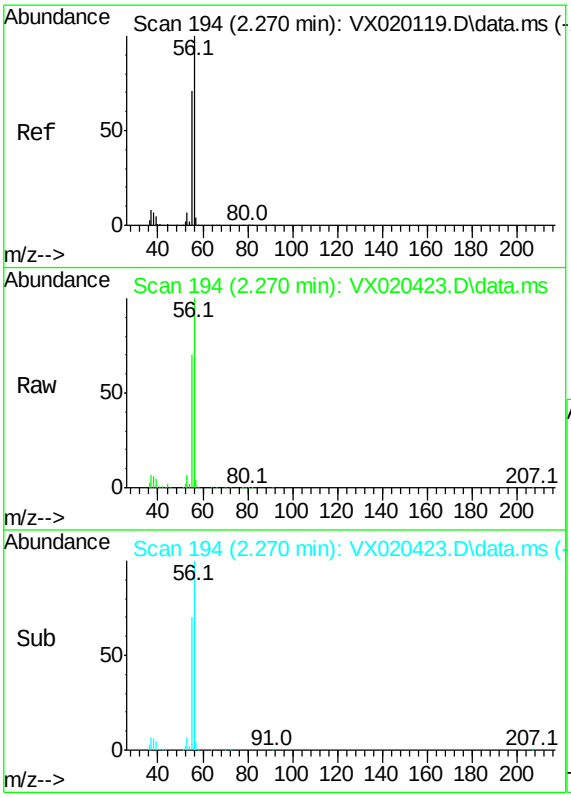
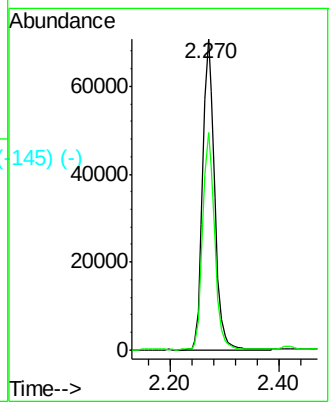
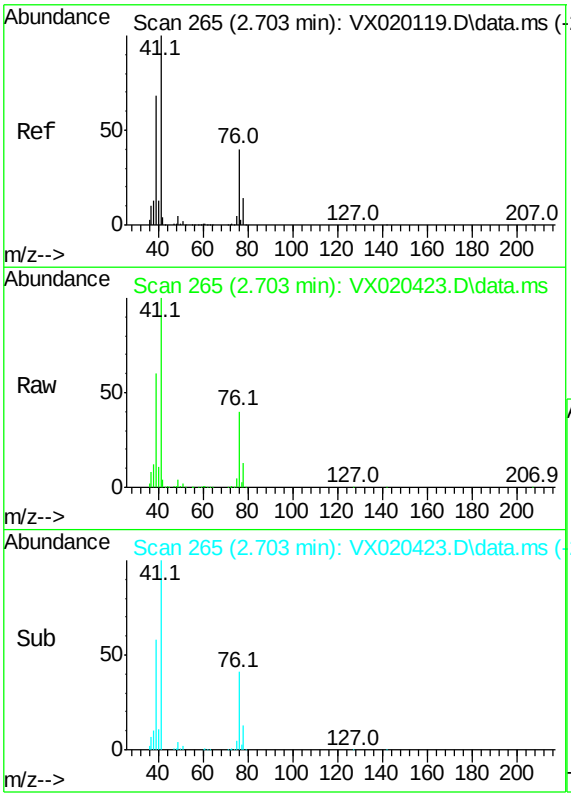


#13
Acrolein
Concen: 225.39 ug/l
RT: 2.270 min Scan# 194
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 56 Resp: 107561

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.4	84.6

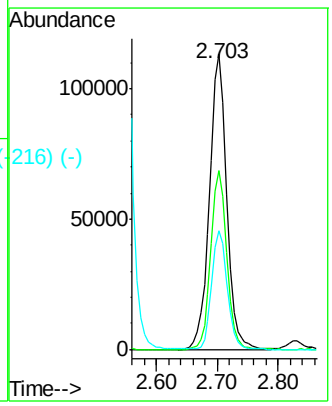




#14
Allyl chloride
Concen: 47.71 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 41 Resp: 220079

Ion	Ratio	Lower	Upper
41	100		
39	56.3	51.6	77.4
76	36.1	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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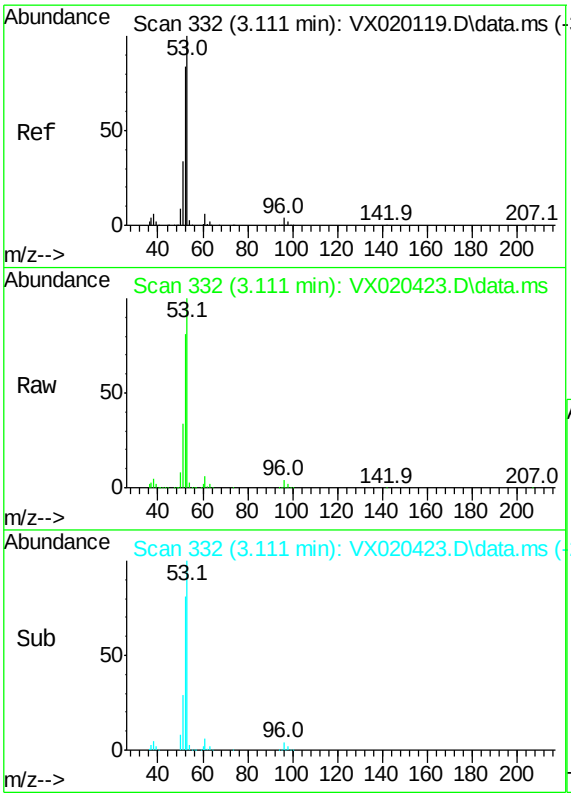
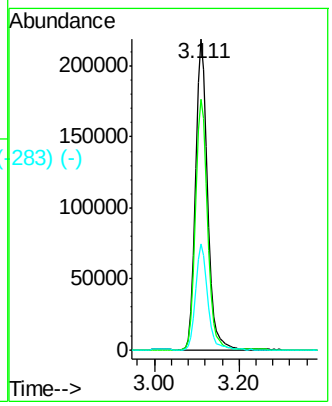
12/30/2020 2:23:42 PM

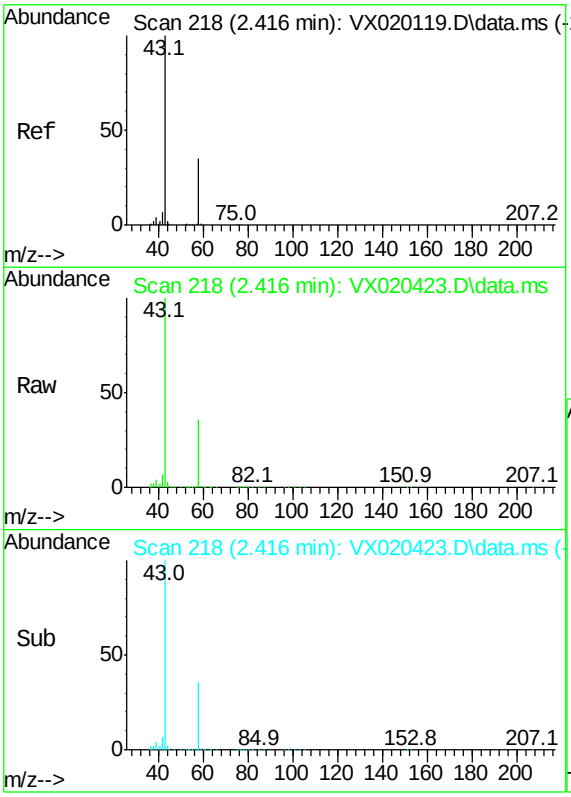


#15
Acrylonitrile
Concen: 245.40 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 53 Resp: 431174

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.3	97.9
51	34.1	28.2	42.2

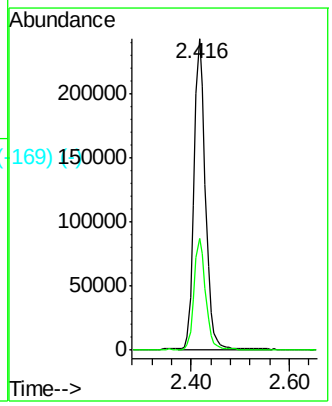




#16
Acetone
Concen: 252.36 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 43 Resp: 392474

Ion	Ratio	Lower	Upper
43	100		
58	35.9	27.8	41.8



Instrument :
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ClientSampleId :
VSTDCCC050

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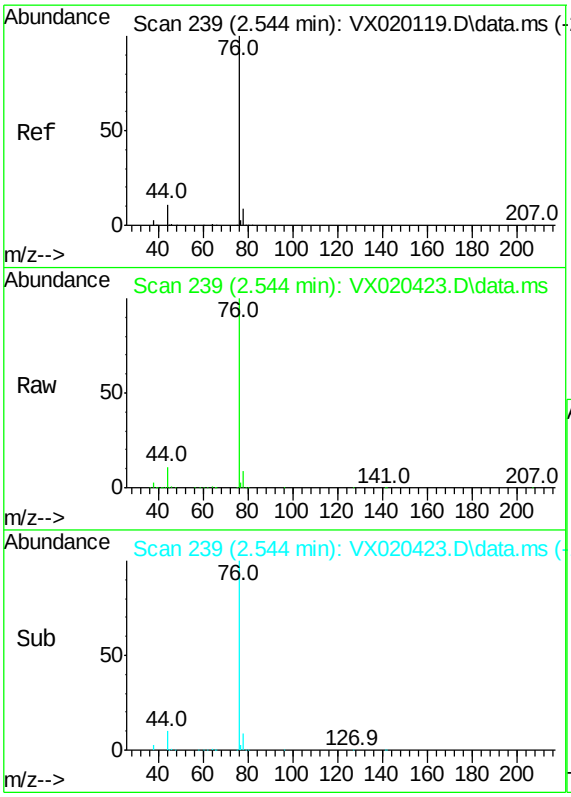
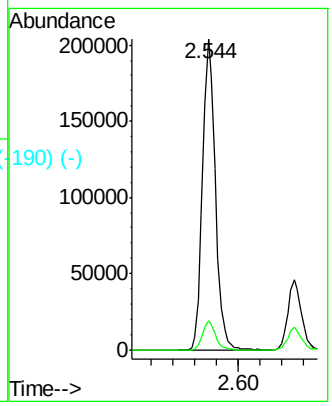
12/30/2020 2:23:42 PM

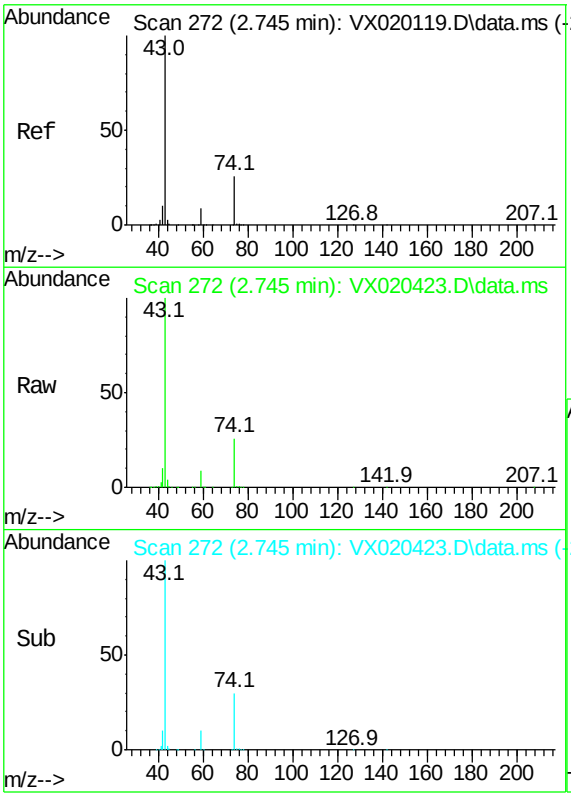


#17
Carbon Disulfide
Concen: 43.21 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 76 Resp: 331738

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

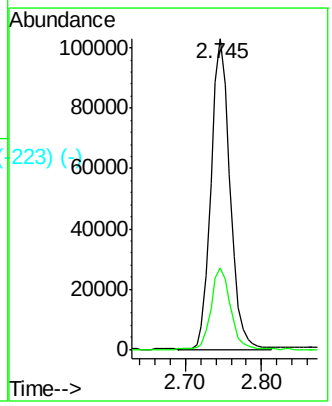




#18
Methyl Acetate
Concen: 51.25 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 43 Resp: 177771

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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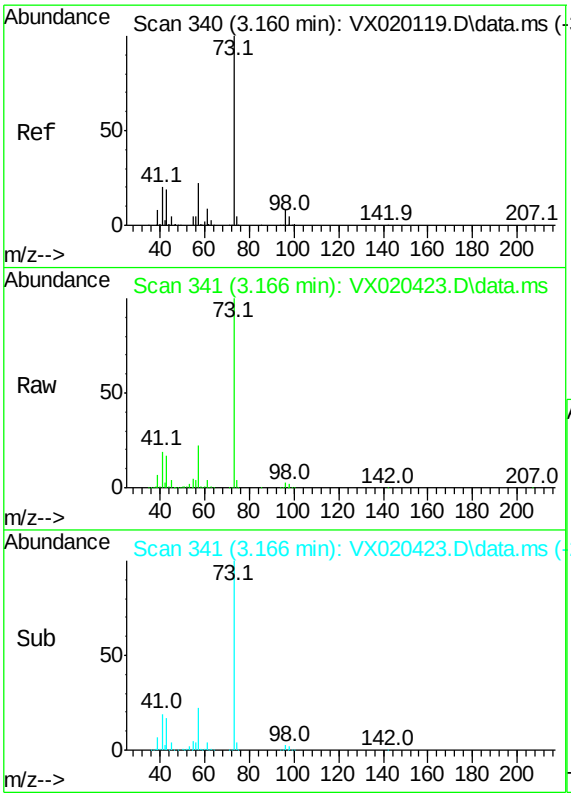
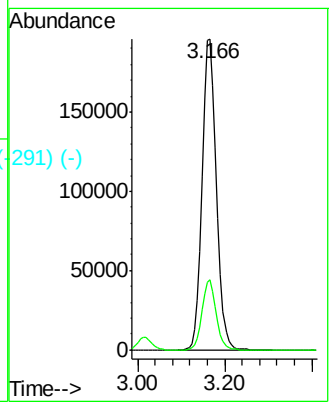
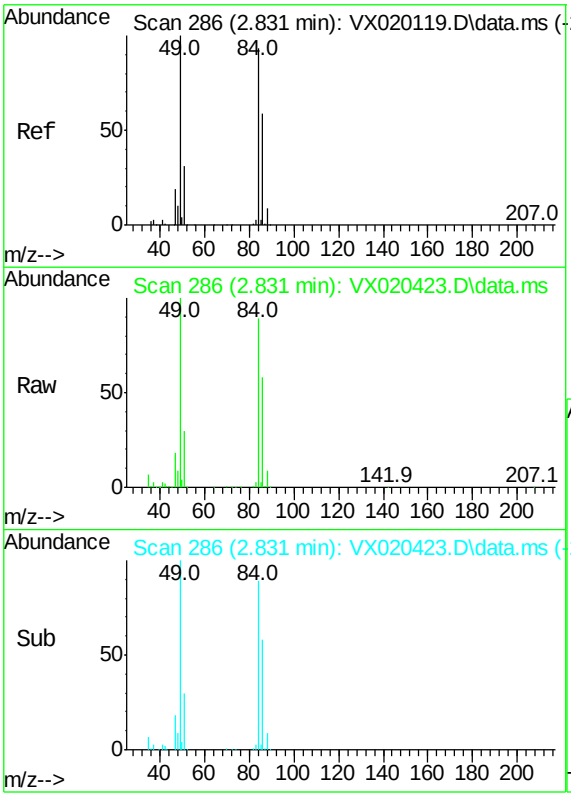


#19
Methyl tert-butyl Ether
Concen: 46.86 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 73 Resp: 455937

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.1	25.7

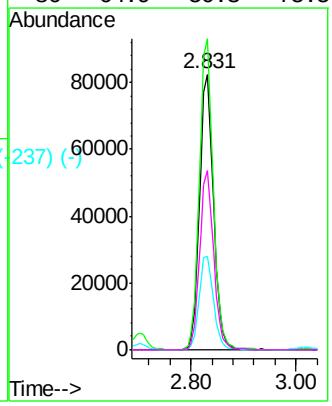




#20
Methylene Chloride
Concen: 43.23 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 84 Resp: 151563

Ion	Ratio	Lower	Upper
84	100		
49	112.9	88.6	132.8
51	33.9	27.0	40.6
86	64.9	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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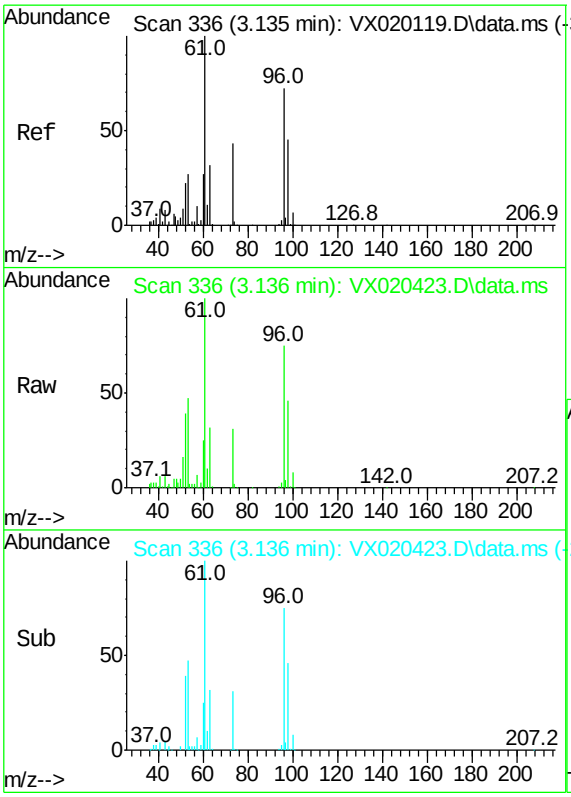
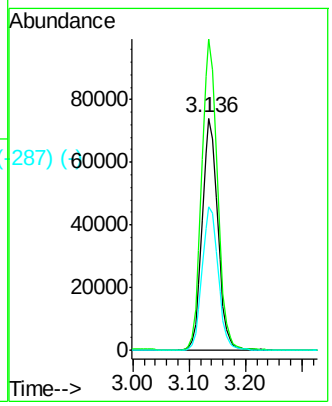
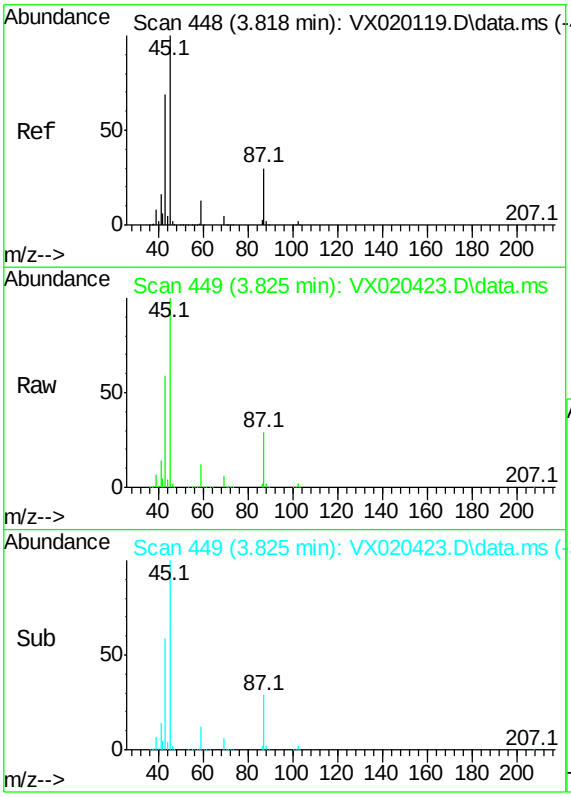


#21
trans-1,2-Dichloroethene
Concen: 44.50 ug/l
RT: 3.136 min Scan# 336
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 96 Resp: 140318

Ion	Ratio	Lower	Upper
96	100		
61	134.1	107.7	161.5
98	61.7	50.4	75.6

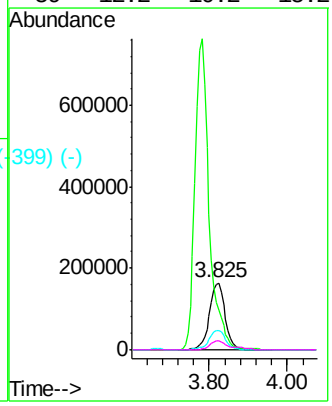




#22
Diisopropyl ether
Concen: 47.30 ug/l
RT: 3.825 min Scan# 449
Delta R.T. 0.007 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 45 Resp: 445338

Ion	Ratio	Lower	Upper
45	100		
43	58.8	58.0	87.0
87	29.4	25.4	38.0
59	12.2	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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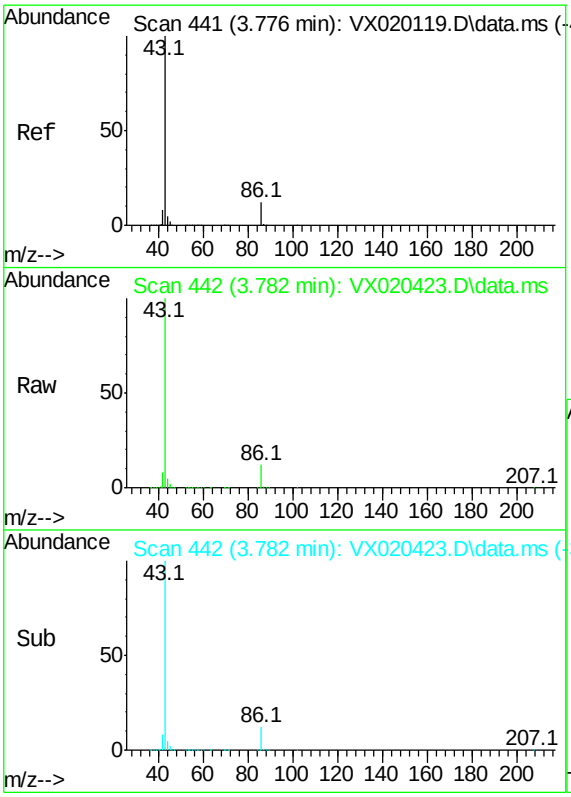
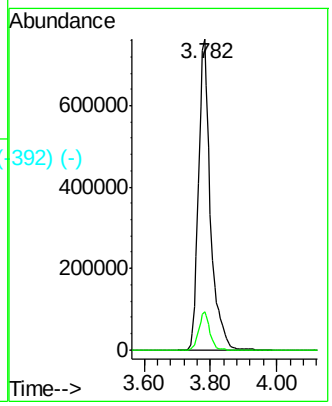
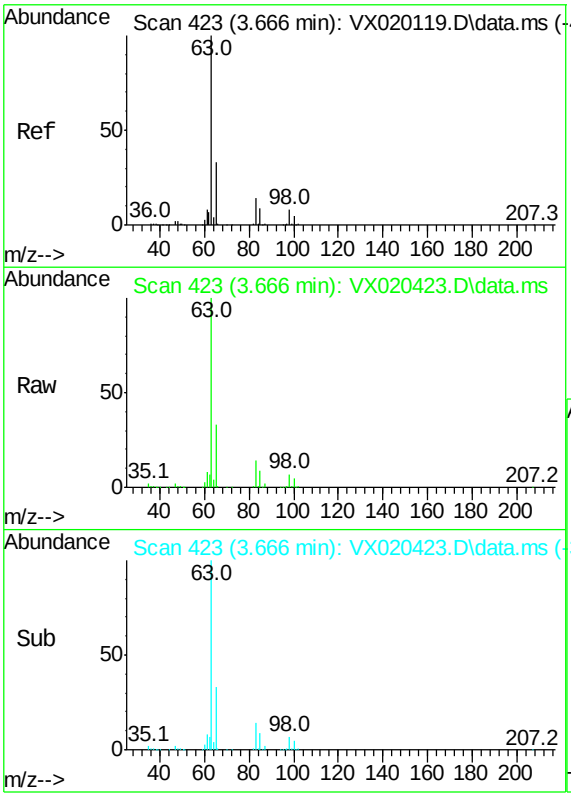


#23
Vinyl Acetate
Concen: 237.64 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 43 Resp: 1906897

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.9	14.9

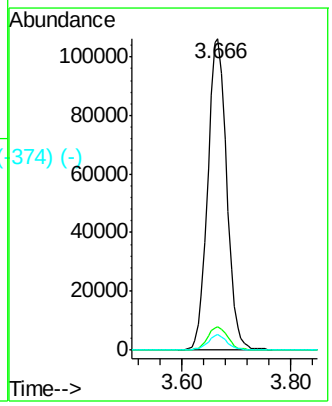




#24
1,1-Dichloroethane
Concen: 46.11 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 63 Resp: 255674

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.7	2.5	7.5



Instrument :
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ClientSampleId :
VSTDCCC050

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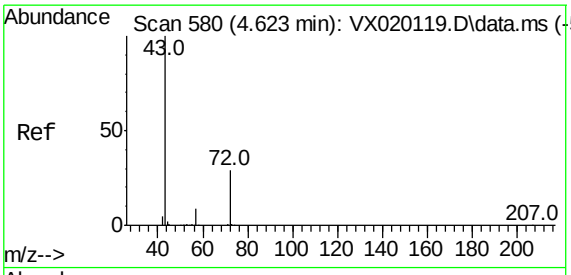
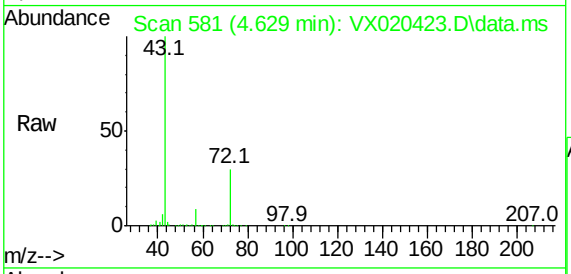
12/30/2020 2:23:42 PM

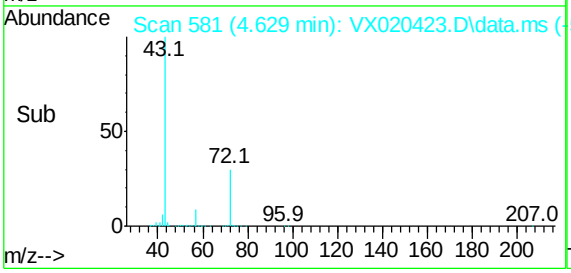


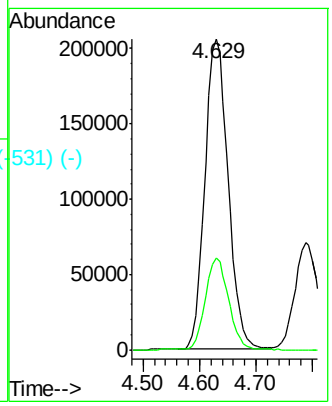
#25 (-)
2-Butanone
Concen: 257.68 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

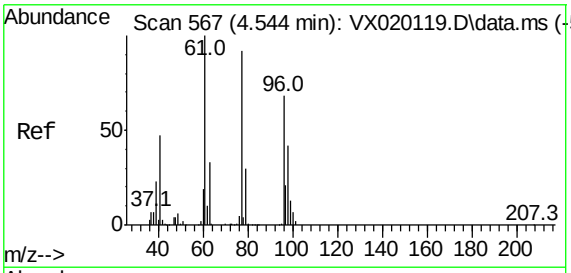
Tgt Ion: 43 Resp: 583256

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.7	35.5





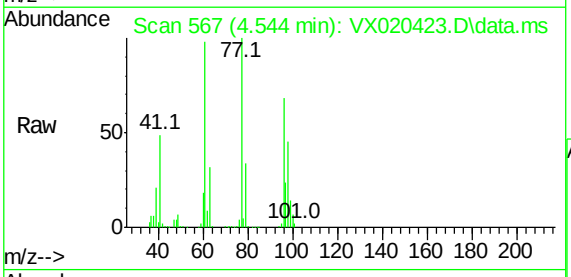


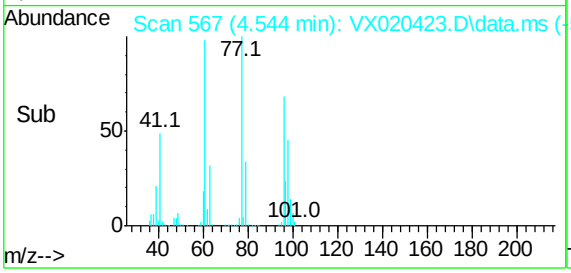


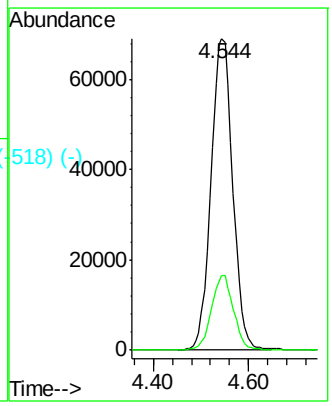
#26 (-)
2,2-Dichloropropane
Concen: 47.22 ug/l
RT: 4.544 min Scan# 567
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 77 Resp: 216042

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.7	35.1







Instrument :
MSVOA_X
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VSTDCCC050

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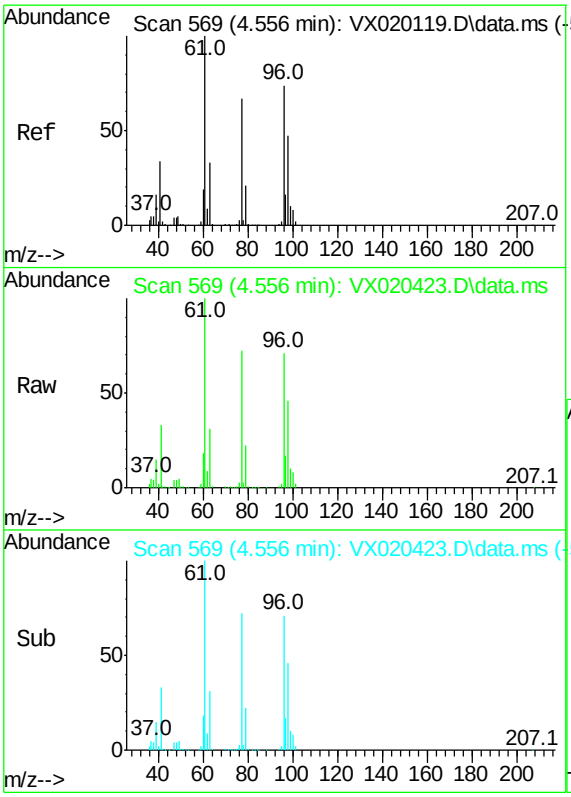
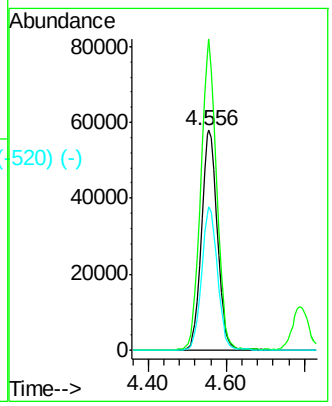
12/30/2020 2:23:42 PM

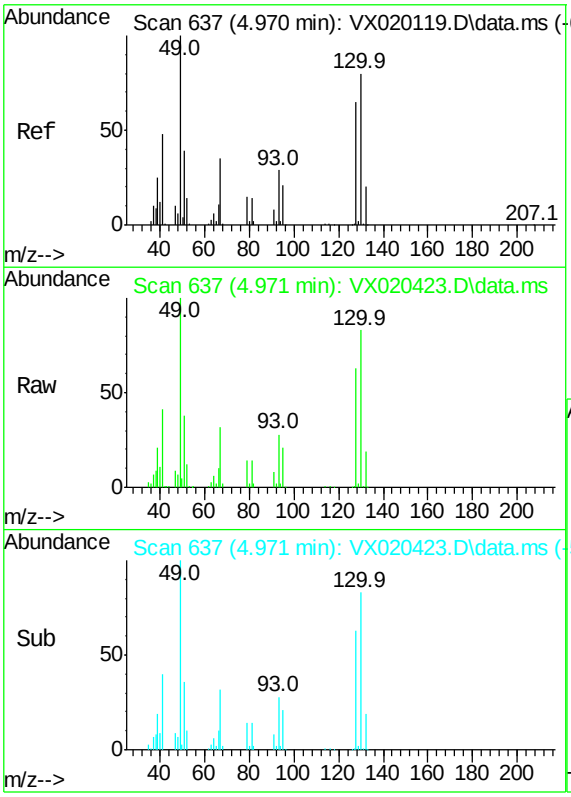


#27
cis-1,2-Dichloroethene
Concen: 45.64 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 96 Resp: 162457

Ion	Ratio	Lower	Upper
96	100		
61	141.9	0.0	285.6
98	64.9	0.0	129.6

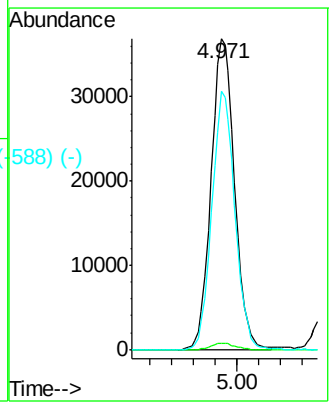




#28
Bromochloromethane
Concen: 44.51 ug/l
RT: 4.971 min Scan# 637
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 49 Resp: 109922

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	82.0	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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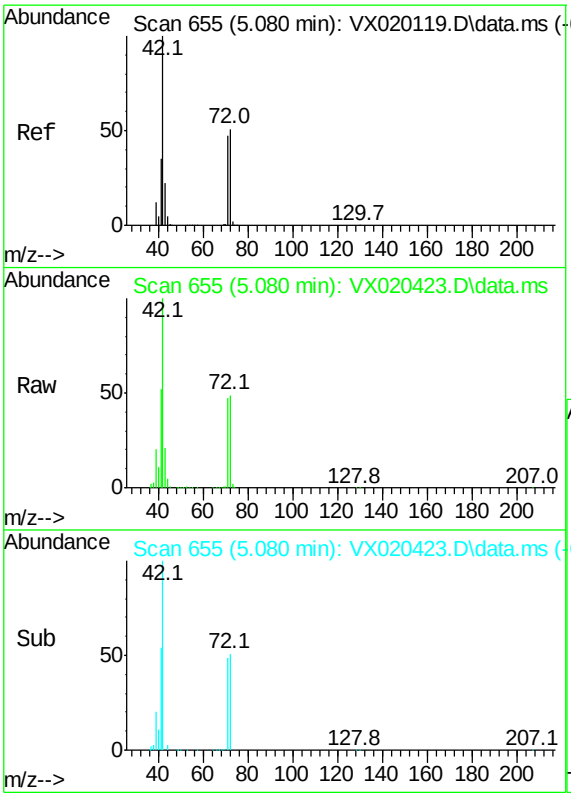
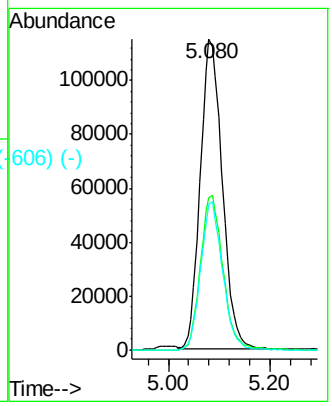
SAM
12/30/2020 2:23:42 PM

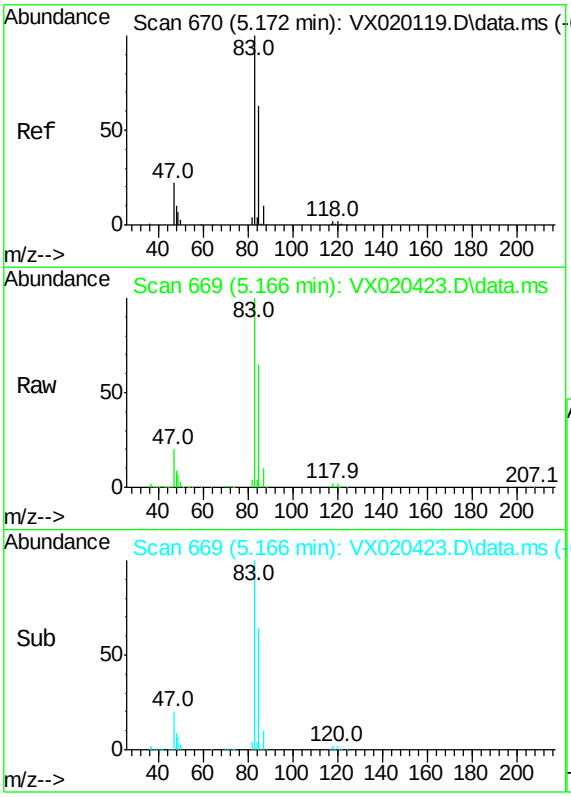


#29
Tetrahydrofuran
Concen: 243.37 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 42 Resp: 346552

Ion	Ratio	Lower	Upper
42	100		
72	50.7	41.7	62.5
71	47.1	38.4	57.6

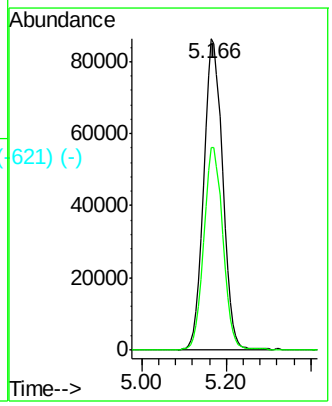




#30
Chloroform
Concen: 45.30 ug/l
RT: 5.166 min Scan# 669
Delta R.T. -0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

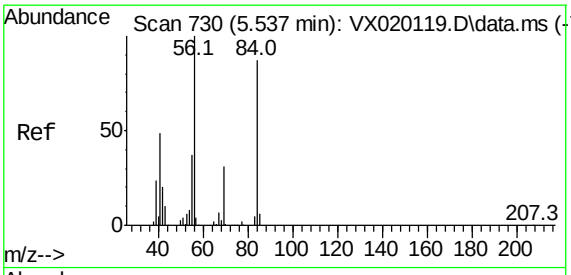
Tgt Ion: 83 Resp: 255770

Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

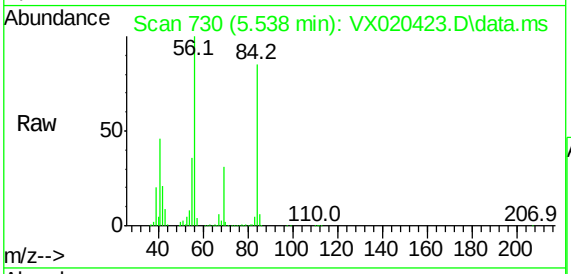
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

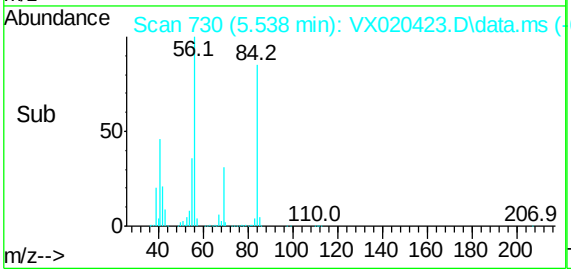


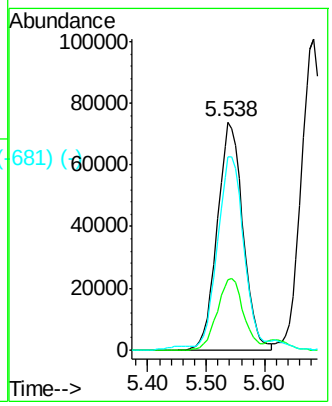
#81 (-)
Cyclohexane
Concen: 47.86 ug/l
RT: 5.538 min Scan# 730
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

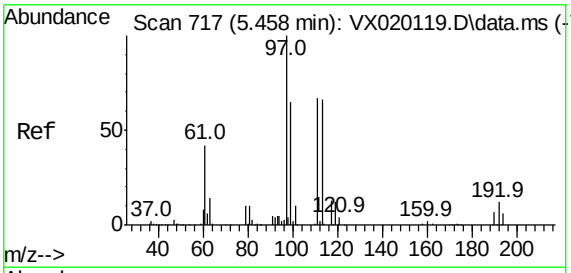
Tgt Ion: 56 Resp: 225060

Ion	Ratio	Lower	Upper
56	100		
69	30.9	25.3	37.9
84	83.2	71.4	107.0





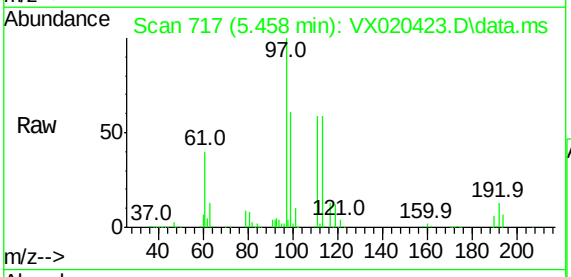


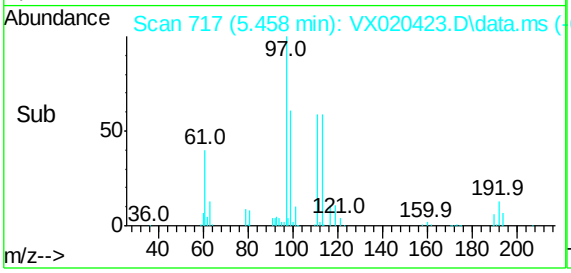


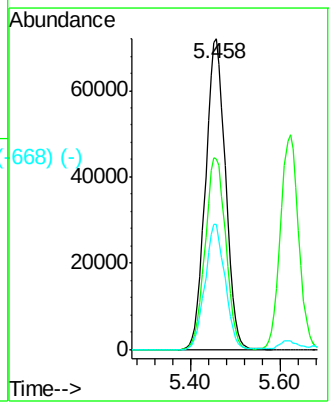
#82 (-)
1,1,1-Trichloroethane
Concen: 47.09 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 97 Resp: 221696

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.5	77.3
61	40.5	34.2	51.4







Instrument :
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ClientSampleId :
VSTDCCC050

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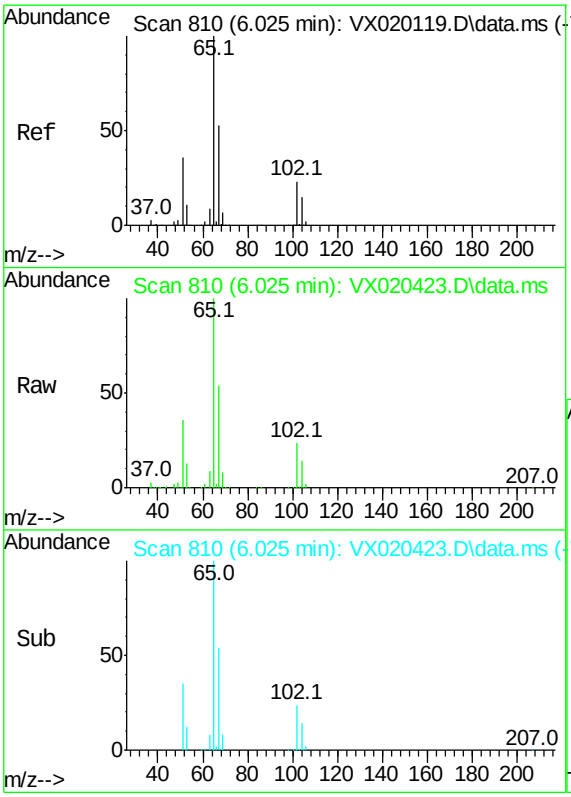
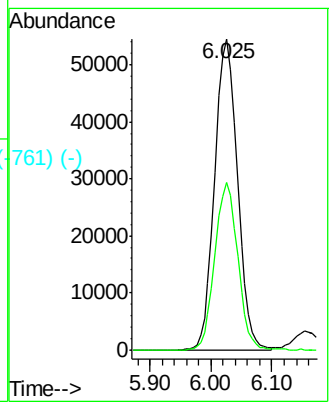
12/30/2020 2:23:42 PM

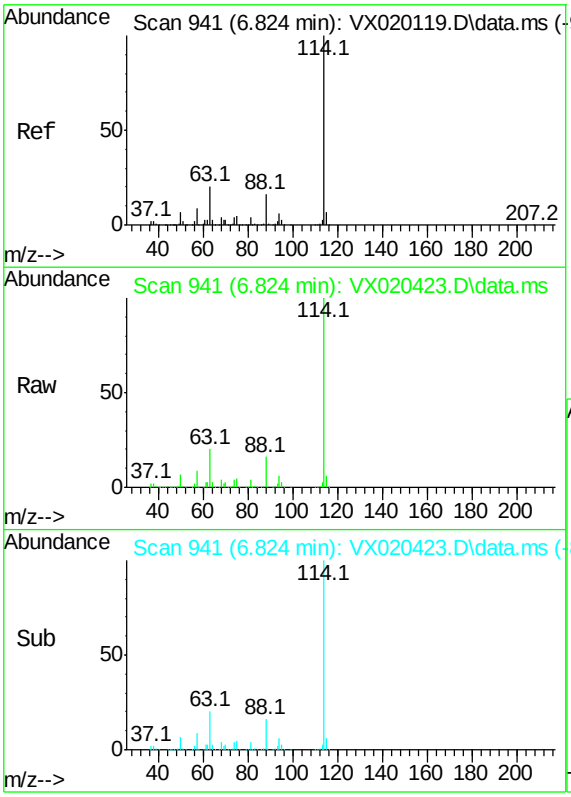


#33
1,2-Dichloroethane-d4
Concen: 41.14 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 65 Resp: 140319

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	105.4

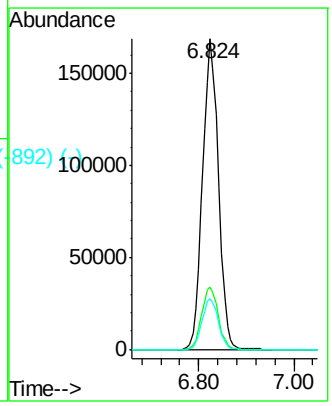




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.824 min Scan# 941
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:114 Resp: 389578

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.8
88	16.3	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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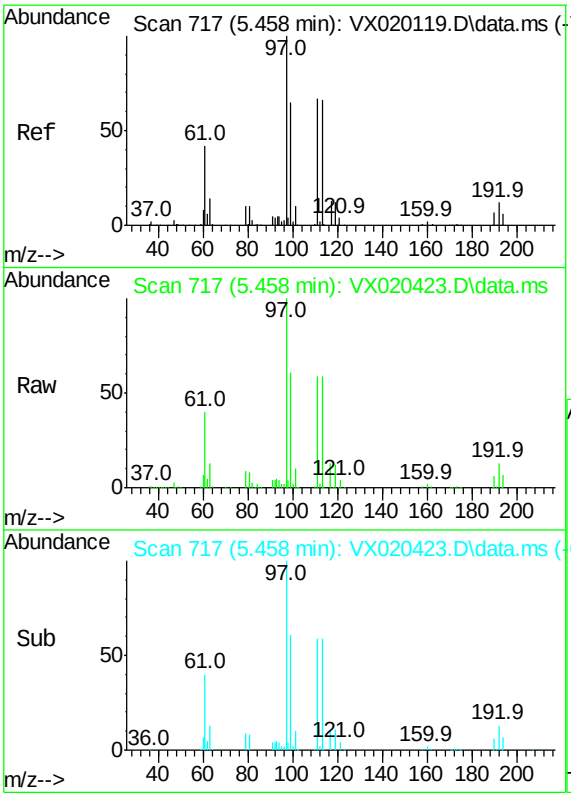
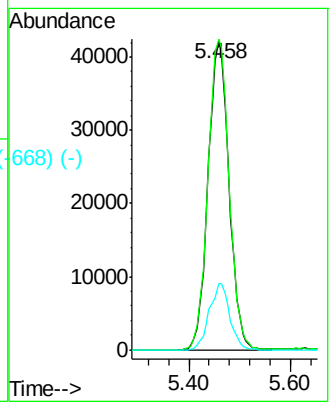
12/30/2020 2:23:42 PM

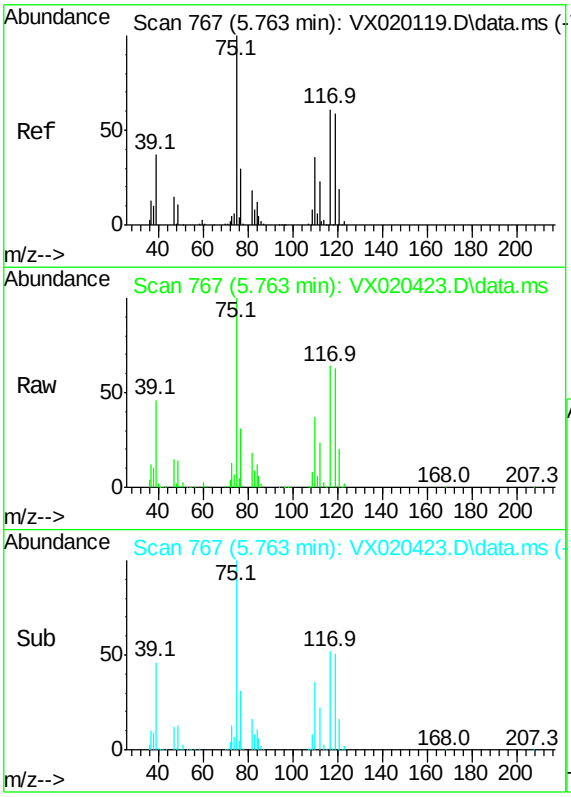


#35
Dibromofluoromethane
Concen: 48.06 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:113 Resp: 119776

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	20.9	16.7	25.1

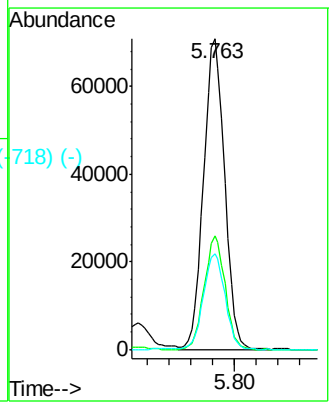




#36
1,1-Dichloropropene
Concen: 49.24 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 75 Resp: 189565

Ion	Ratio	Lower	Upper
75	100		
110	36.2	18.1	54.4
77	31.5	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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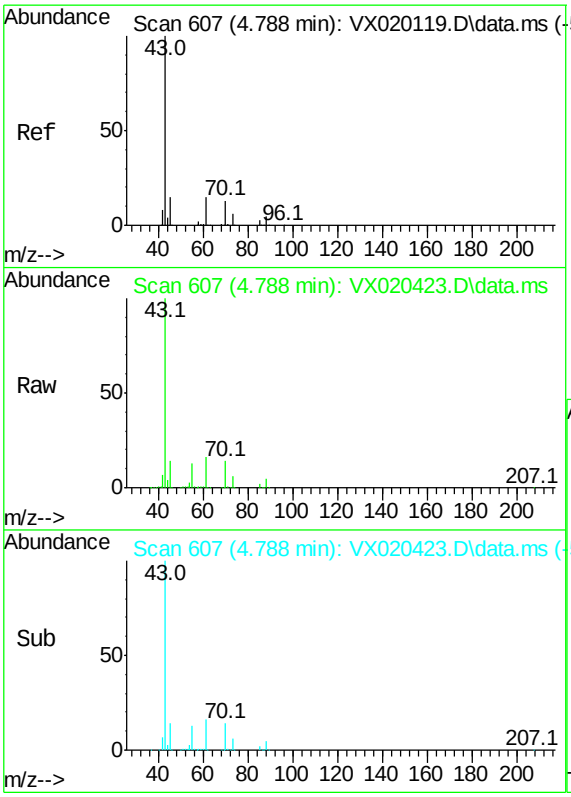
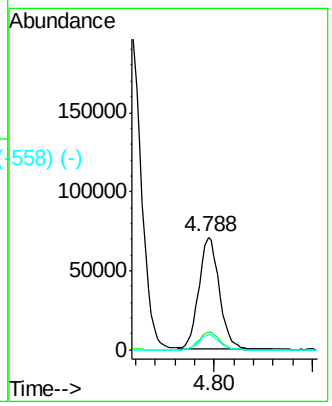
SAM
12/30/2020 2:23:42 PM

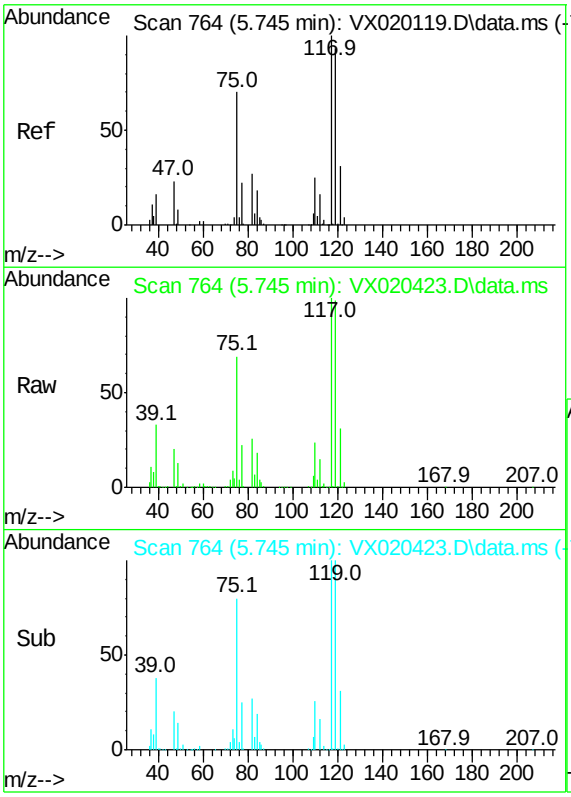


#37
Ethyl Acetate
Concen: 51.67 ug/l
RT: 4.788 min Scan# 607
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 43 Resp: 206756

Ion	Ratio	Lower	Upper
43	100		
61	16.1	12.8	19.2
70	13.5	10.5	15.7

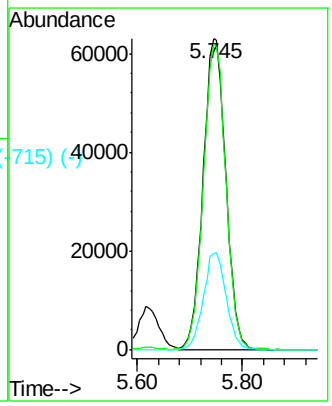




#38
Carbon Tetrachloride
Concen: 51.38 ug/l
RT: 5.745 min Scan# 764
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:117 Resp: 188146

Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.2	114.2
121	30.9	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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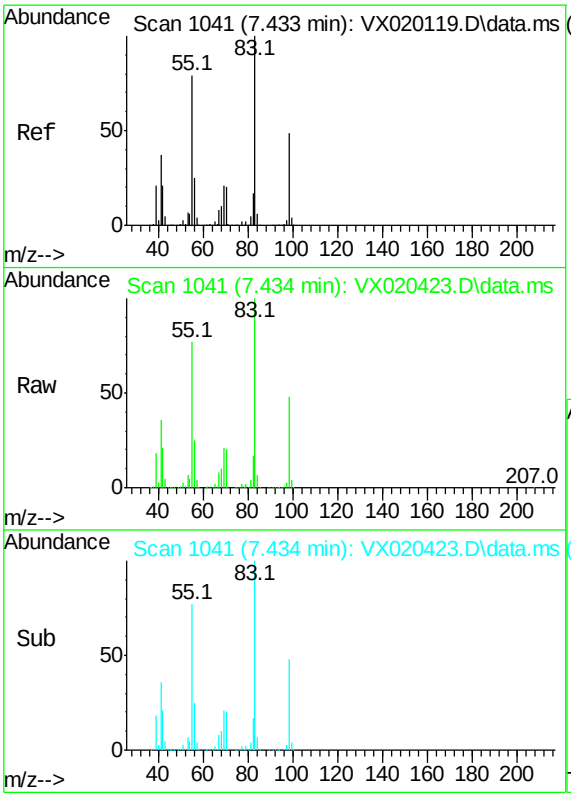
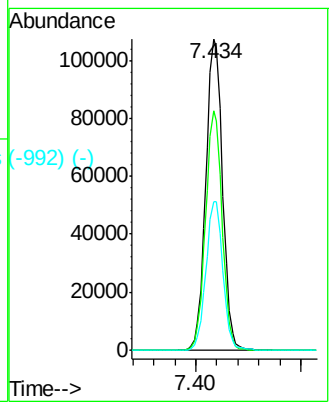
12/30/2020 2:23:42 PM

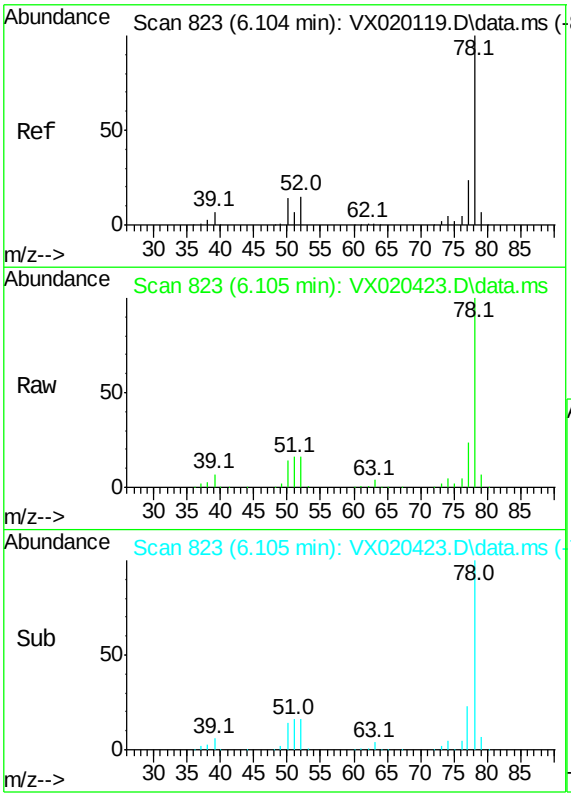


#39
Methylcyclohexane
Concen: 52.99 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 83 Resp: 235483

Ion	Ratio	Lower	Upper
83	100		
55	76.9	58.9	88.3
98	47.6	38.1	57.1

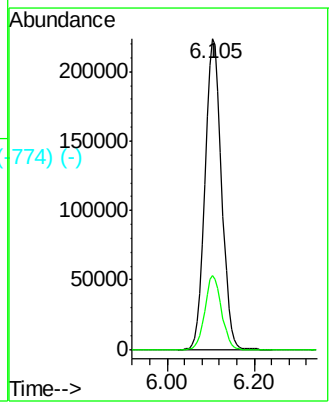




#40
Benzene
Concen: 49.50 ug/l
RT: 6.105 min Scan# 823
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 78 Resp: 593325

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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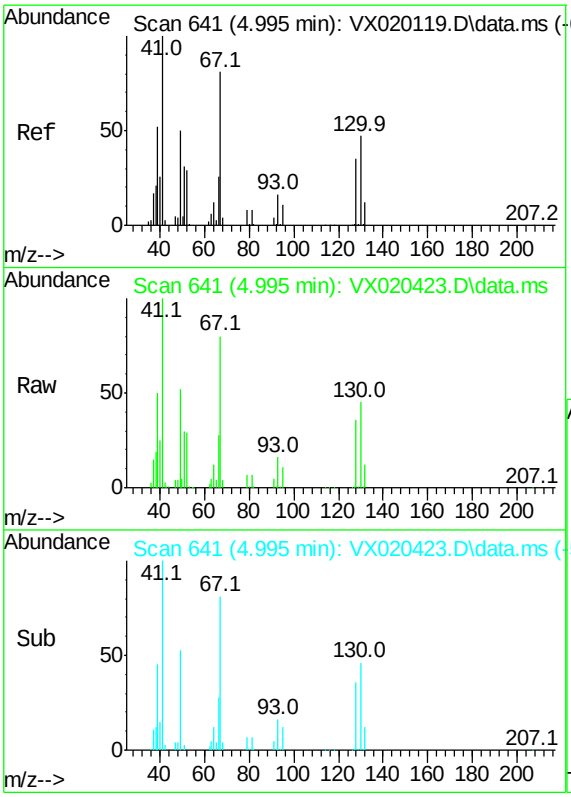
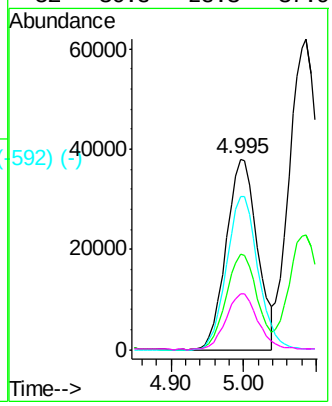
SAM
12/30/2020 2:23:42 PM

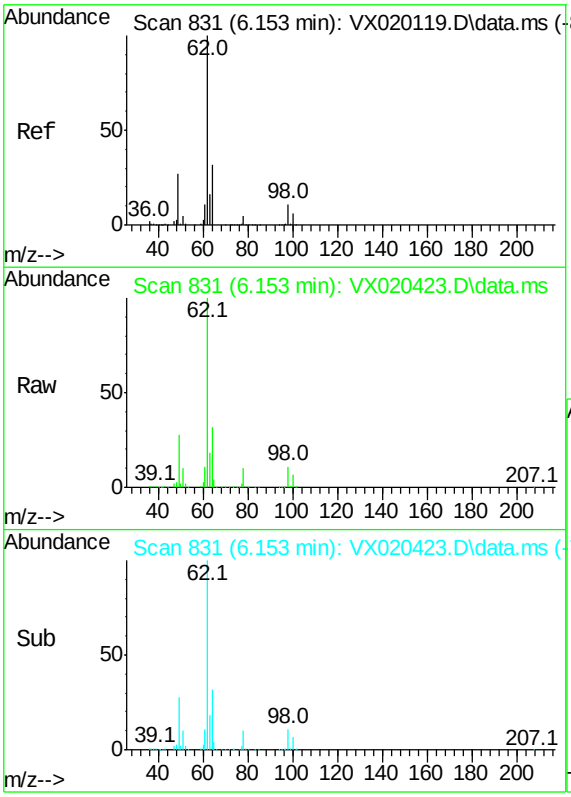


#41
Methacrylonitrile
Concen: 53.09 ug/l
RT: 4.995 min Scan# 641
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 41 Resp: 113180

Ion	Ratio	Lower	Upper
41	100		
39	50.2	42.5	63.7
67	82.3	65.0	97.6
52	30.5	25.3	37.9

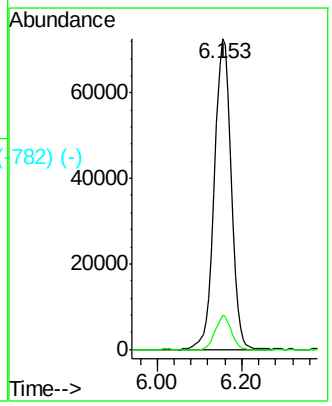




#42
1,2-Dichloroethane
Concen: 46.66 ug/l
RT: 6.153 min Scan# 831
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 62 Resp: 191832

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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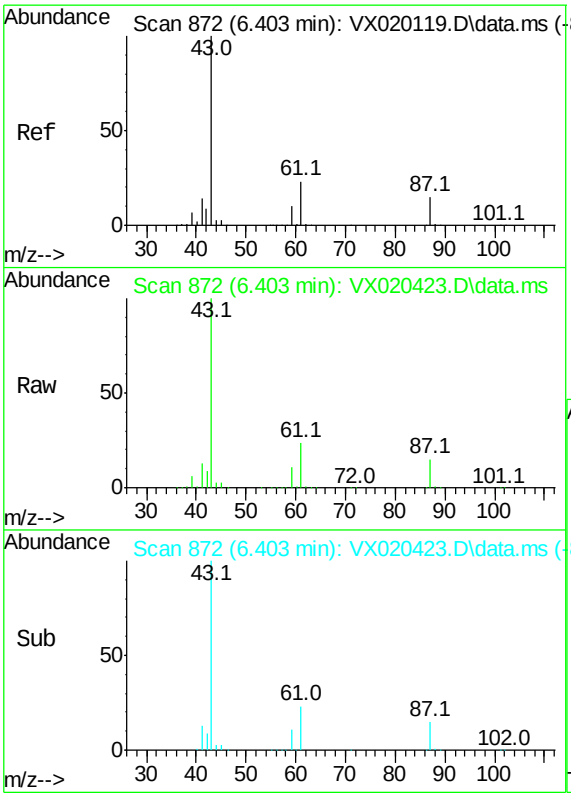
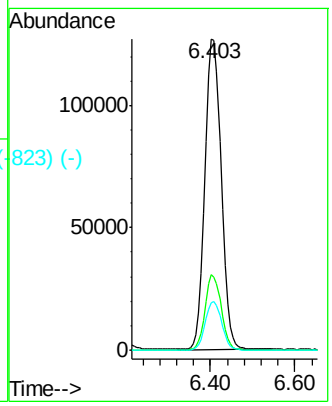
12/30/2020 2:23:42 PM

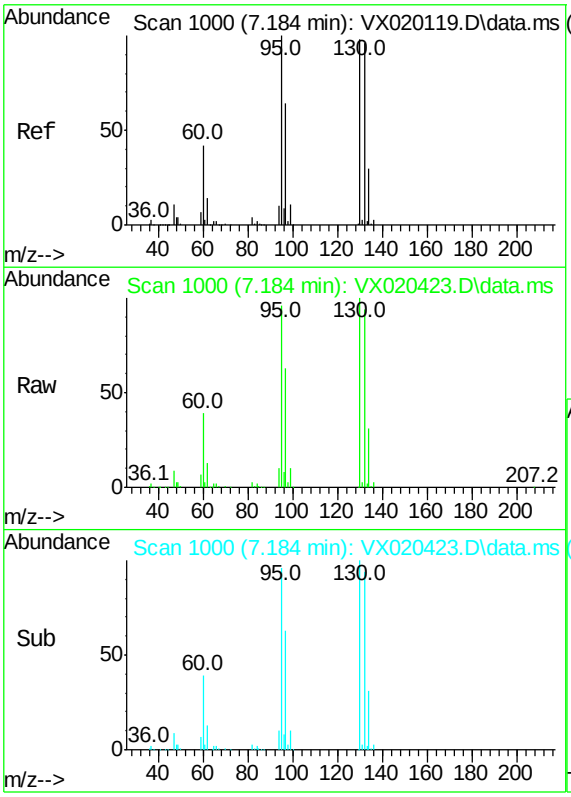


#43
Isopropyl Acetate
Concen: 51.87 ug/l
RT: 6.403 min Scan# 872
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 43 Resp: 327666

Ion	Ratio	Lower	Upper
43	100		
61	23.5	18.2	27.4
87	15.4	12.5	18.7

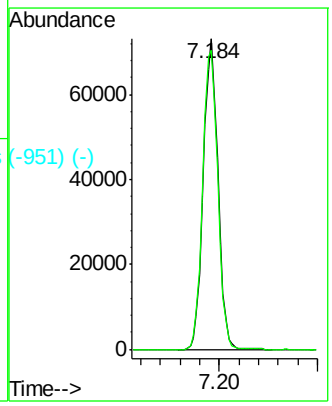




#44
Trichloroethene
Concen: 49.18 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:130 Resp: 152358

Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	198.0



Instrument :
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ClientSampleId :
VSTDCCC050

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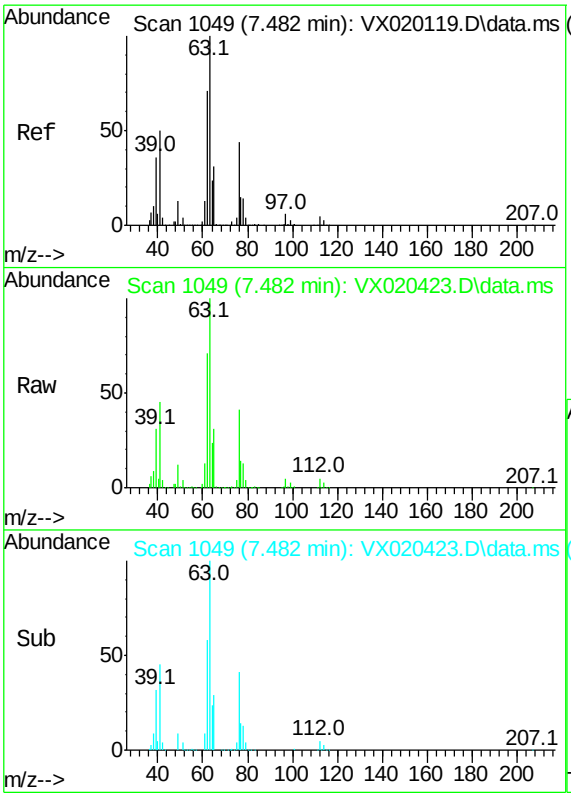
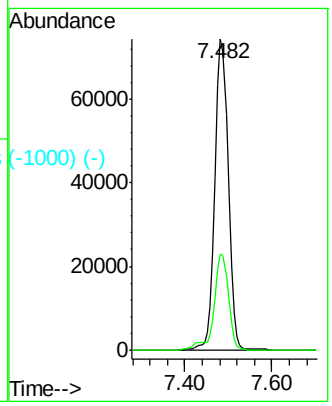
SAM
12/30/2020 2:23:42 PM

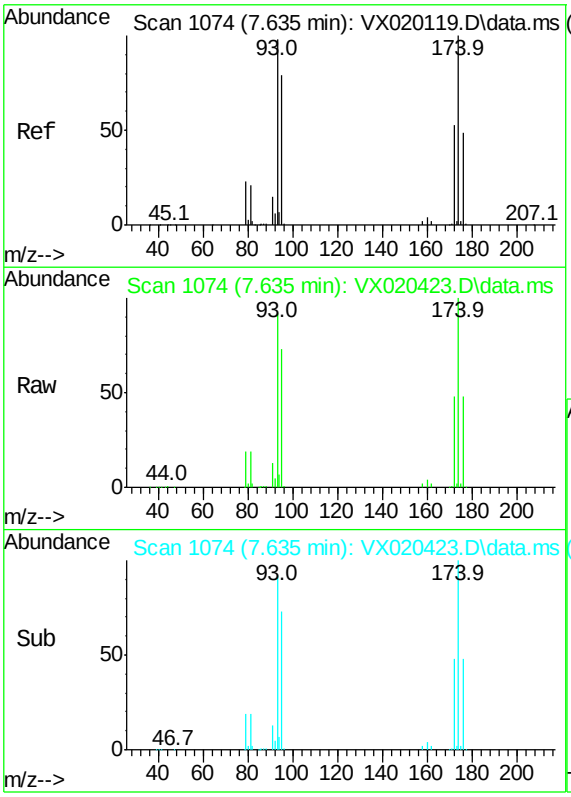


#45
1,2-Dichloropropane
Concen: 51.08 ug/l
RT: 7.482 min Scan# 1049
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 63 Resp: 154728

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.7	38.5

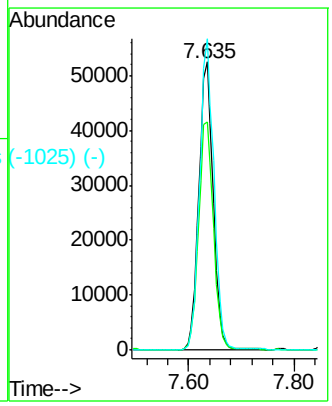




#46
Dibromomethane
Concen: 47.97 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

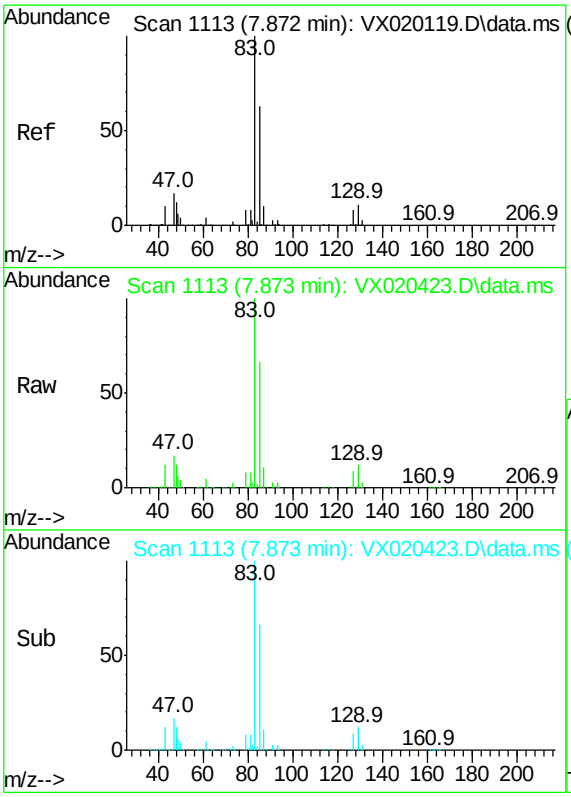
Tgt Ion: 93 Resp: 99398

Ion	Ratio	Lower	Upper
93	100		
95	82.1	66.8	100.2
174	107.3	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

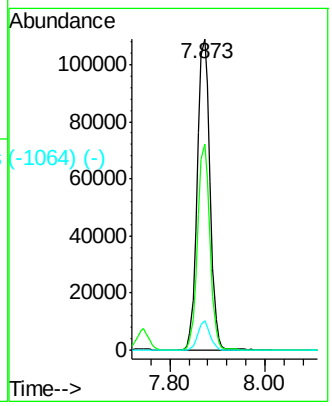
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

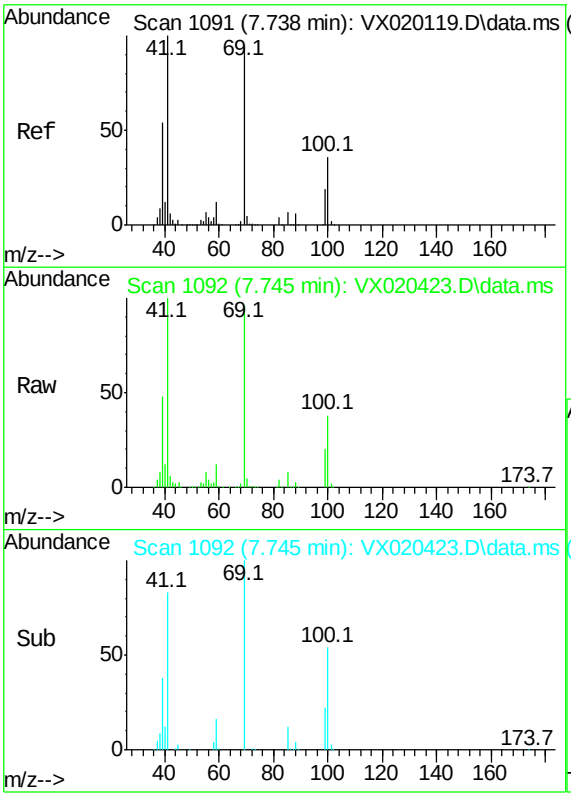


#47
Bromodichloromethane
Concen: 51.30 ug/l
RT: 7.873 min Scan# 1113
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 83 Resp: 202656

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.4	77.0
127	9.3	6.8	10.2

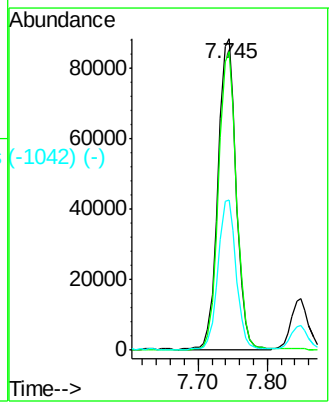




#48
Methyl methacrylate
Concen: 52.02 ug/l
RT: 7.745 min Scan# 1092
Delta R.T. 0.007 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

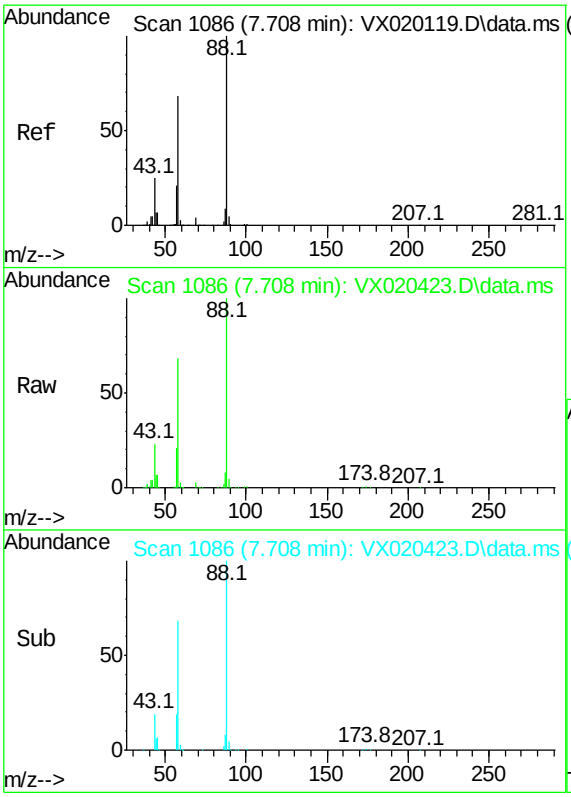
Tgt Ion: 41 Resp: 161030

Ion	Ratio	Lower	Upper
41	100		
69	95.5	76.0	114.0
39	48.5	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

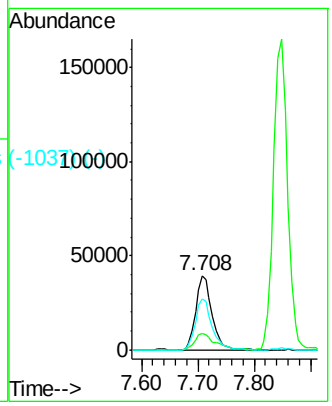
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

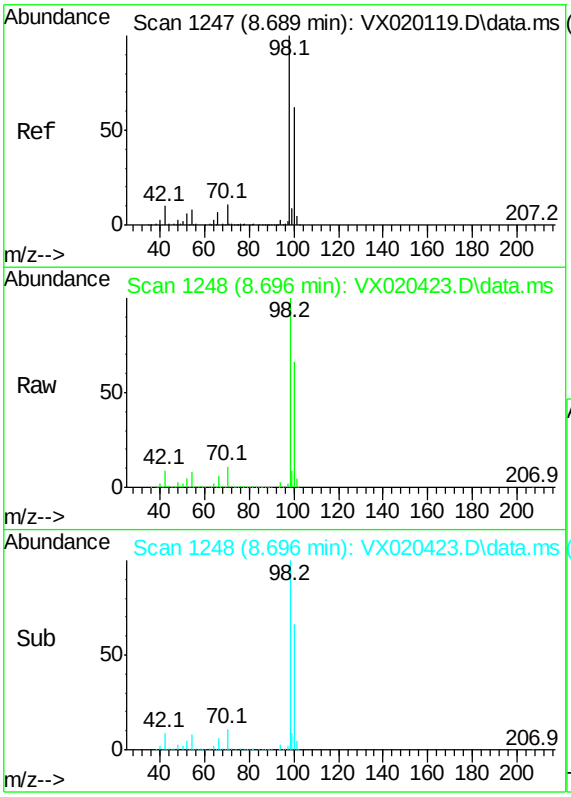


#49
1,4-Dioxane
Concen: 1066.12 ug/l
RT: 7.708 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 88 Resp: 77251

Ion	Ratio	Lower	Upper
88	100		
43	27.1	23.2	34.8
58	71.6	55.0	82.4

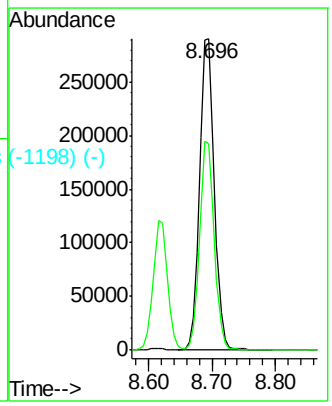




#50
Toluene-d8
Concen: 47.80 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

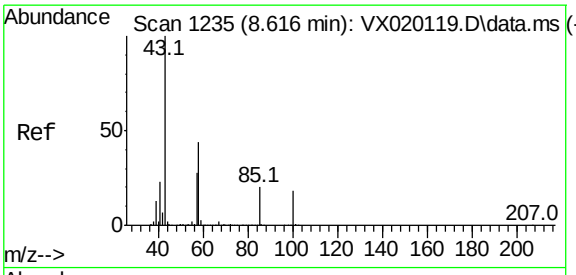
Tgt Ion: 98 Resp: 458515

Ion	Ratio	Lower	Upper
98	100		
100	66.9	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

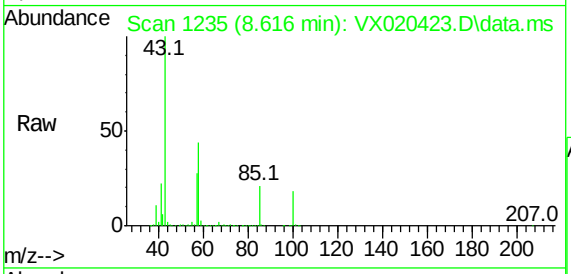
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

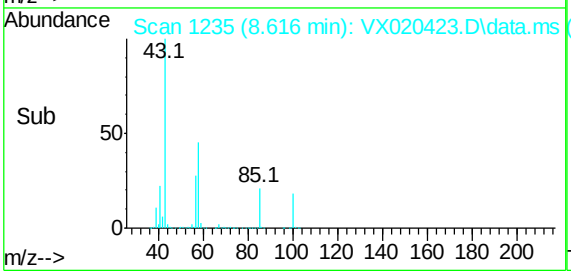


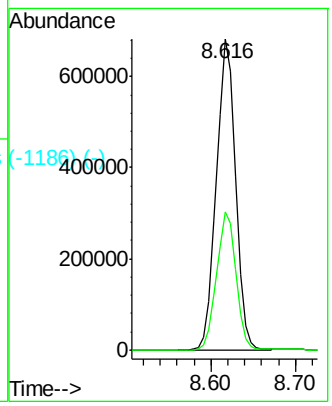
#51
4-Methyl-2-Pentanone
Concen: 267.25 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

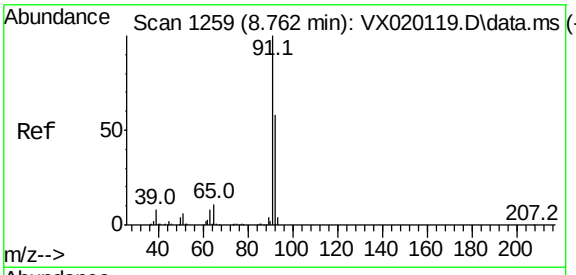
Tgt Ion: 43 Resp: 1045115

Ion	Ratio	Lower	Upper
43	100		
58	44.7	35.4	53.0





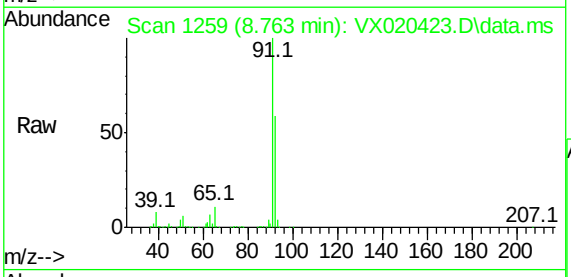


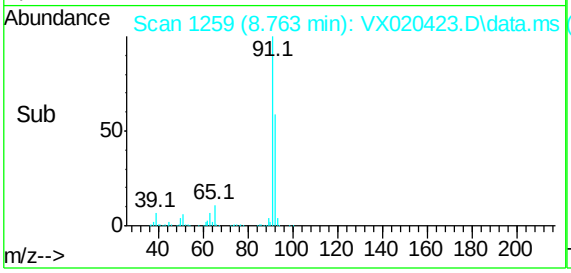


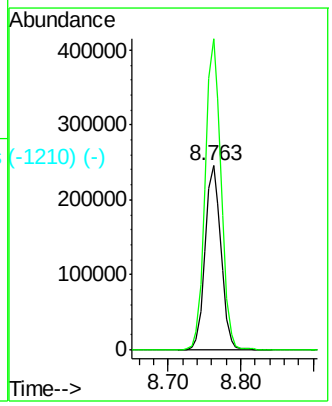
#52
Toluene
Concen: 50.95 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 92 Resp: 372679

Ion	Ratio	Lower	Upper
92	100		
91	168.7	137.1	205.7

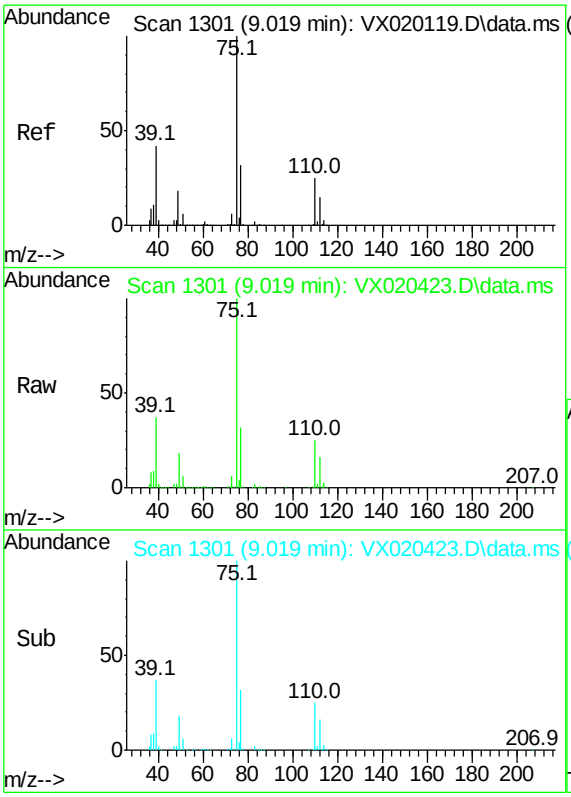






Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

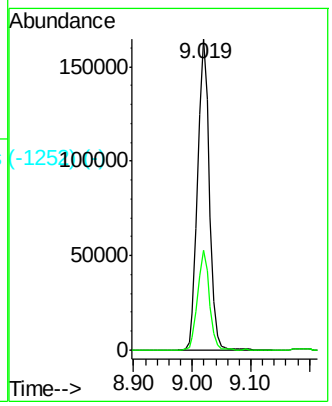
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

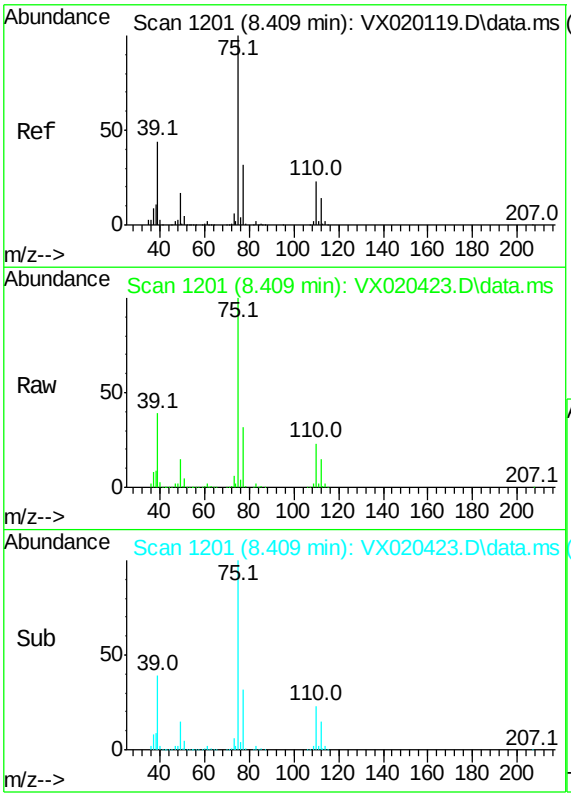


#53
t-1,3-Dichloropropene
Concen: 52.14 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 75 Resp: 226554

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.9	37.3

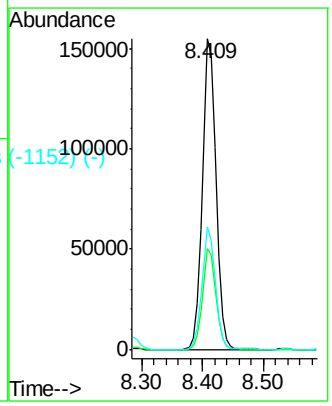




#54
cis-1,3-Dichloropropene
Concen: 52.27 ug/l
RT: 8.409 min Scan# 1201
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

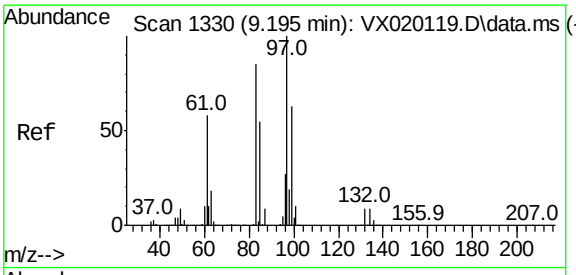
Tgt Ion: 75 Resp: 249347

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.7	38.5
39	39.4	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

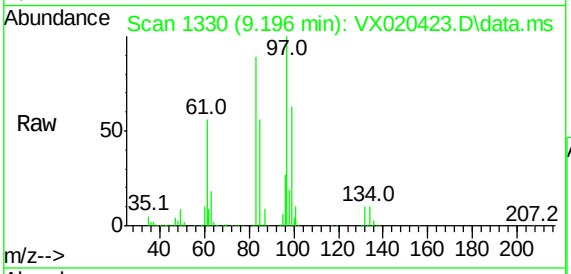
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

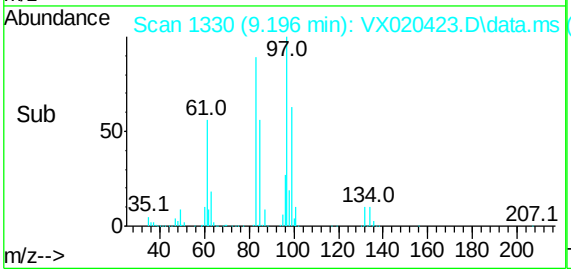


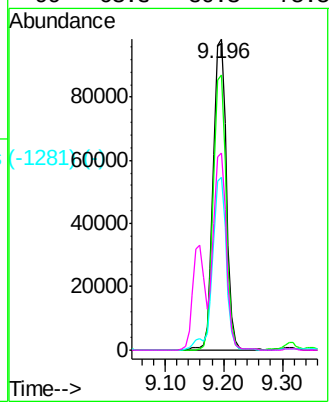
#55
1,1,2-Trichloroethane
Concen: 50.18 ug/l
RT: 9.196 min Scan# 1330
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

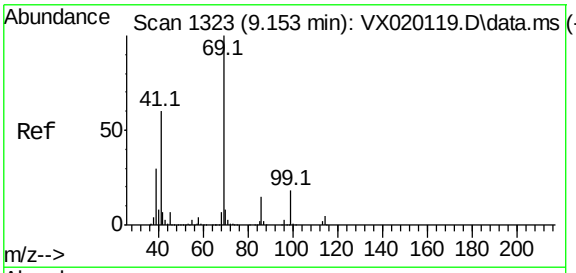
Tgt Ion: 97 Resp: 151378

Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.3	103.9
85	55.6	44.3	66.5
99	63.3	50.3	75.5





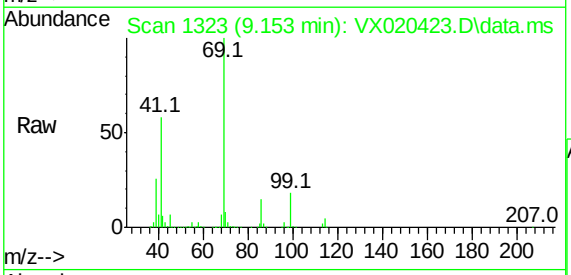


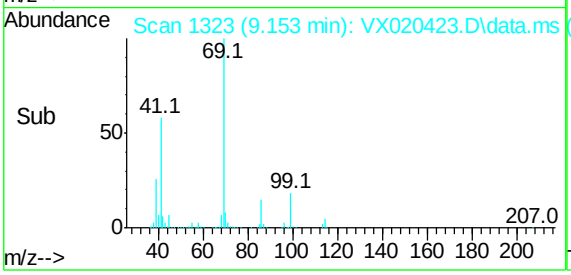


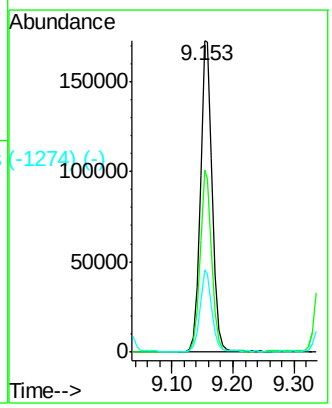
#56
Ethyl methacrylate
Concen: 54.43 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 69 Resp: 240309

Ion	Ratio	Lower	Upper
69	100		
41	57.5	46.8	70.2
39	26.0	24.7	37.1







Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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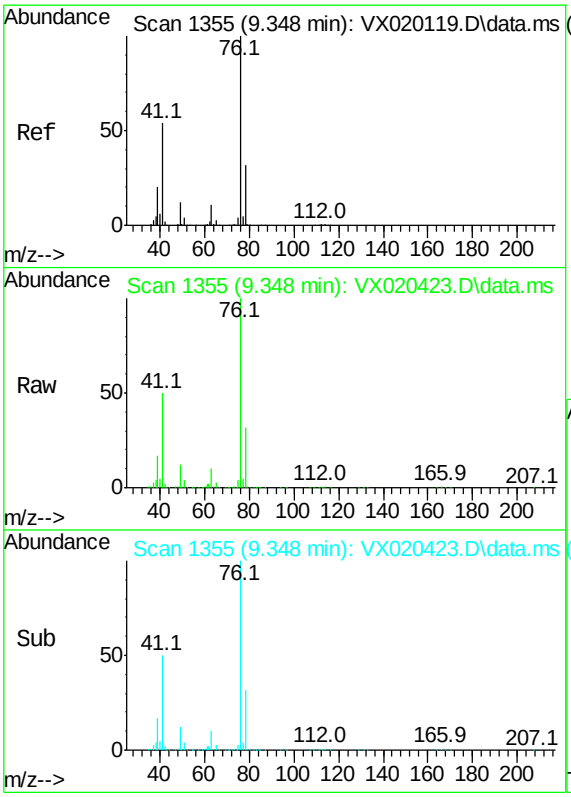
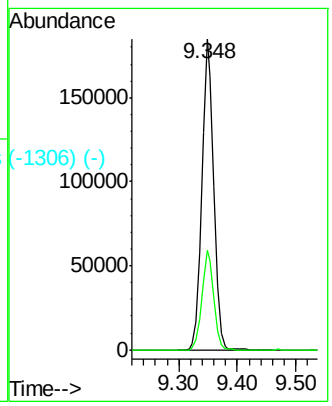
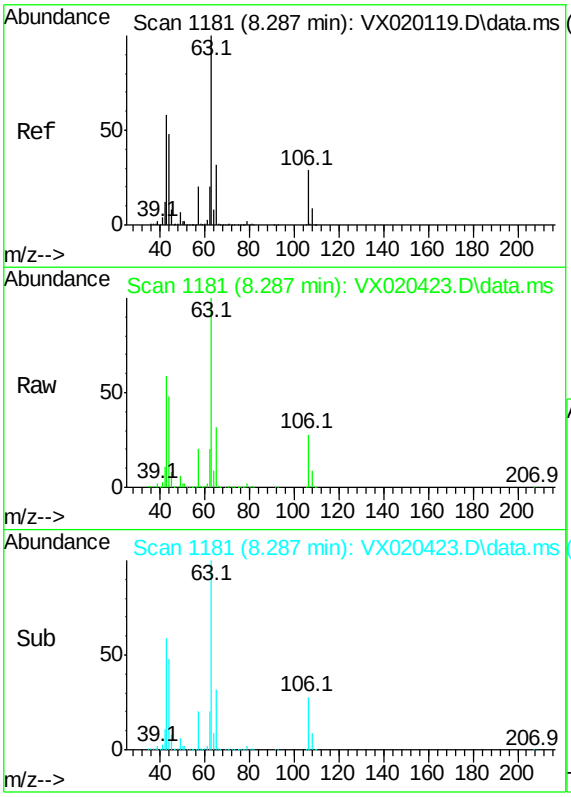


#57
1,3-Dichloropropane
Concen: 50.23 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 76 Resp: 257950

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

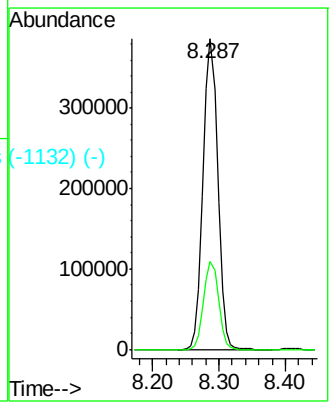




#58
2-Chloroethyl Vinyl ether
Concen: 253.10 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 63 Resp: 591052

Ion	Ratio	Lower	Upper
63	100		
106	28.7	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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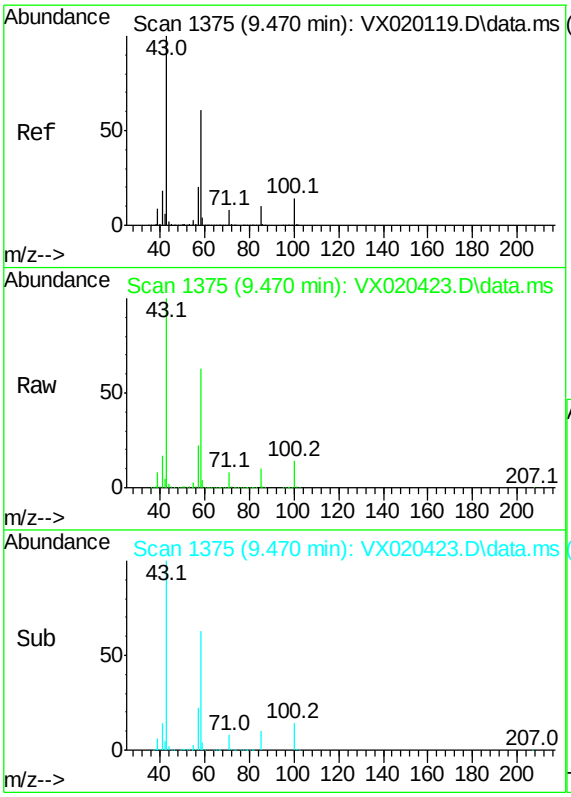
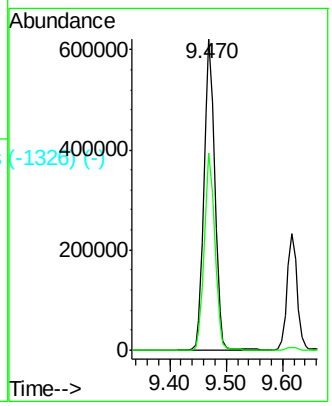
12/30/2020 2:23:42 PM

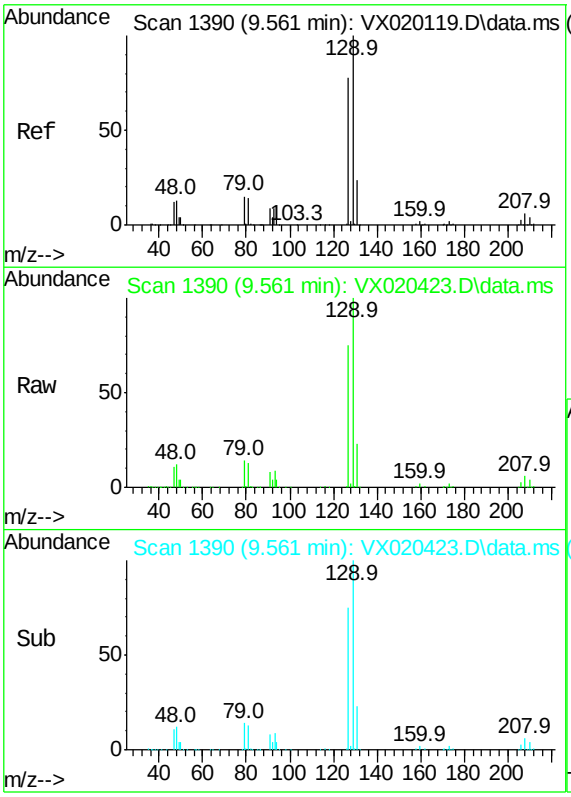


#58
2-Hexanone
Concen: 274.13 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 43 Resp: 816929

Ion	Ratio	Lower	Upper
43	100		
58	62.5	30.9	92.8

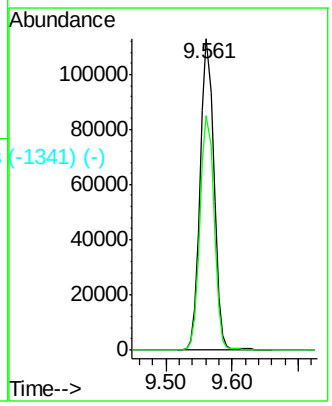




#60
Dibromochloromethane
Concen: 53.11 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:129 Resp: 158969

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2



Instrument :
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ClientSampleId :
VSTDCCC050

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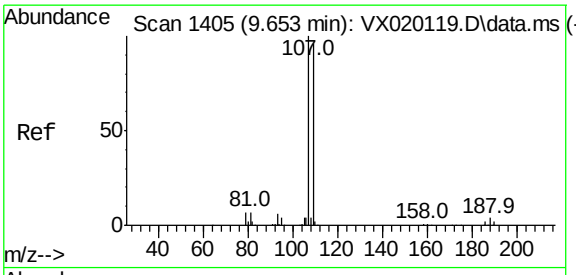
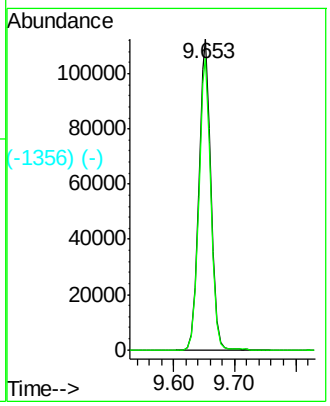
12/30/2020 2:23:42 PM

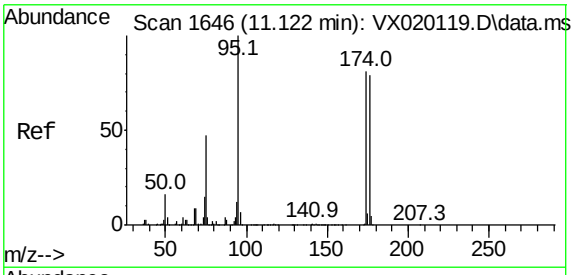


#61
1,2-Dibromoethane
Concen: 50.42 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:107 Resp: 158819

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.8	113.6

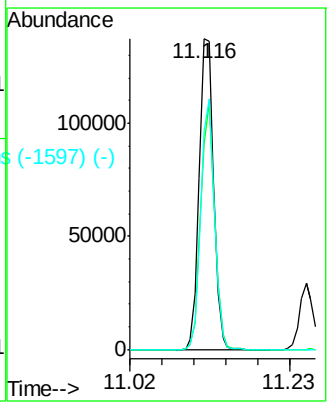




#62
4-Bromofluorobenzene
Concen: 48.77 ug/l
RT: 11.116 min Scan# 1645
Delta R.T. -0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 95 Resp: 179062

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	154.6
176	76.8	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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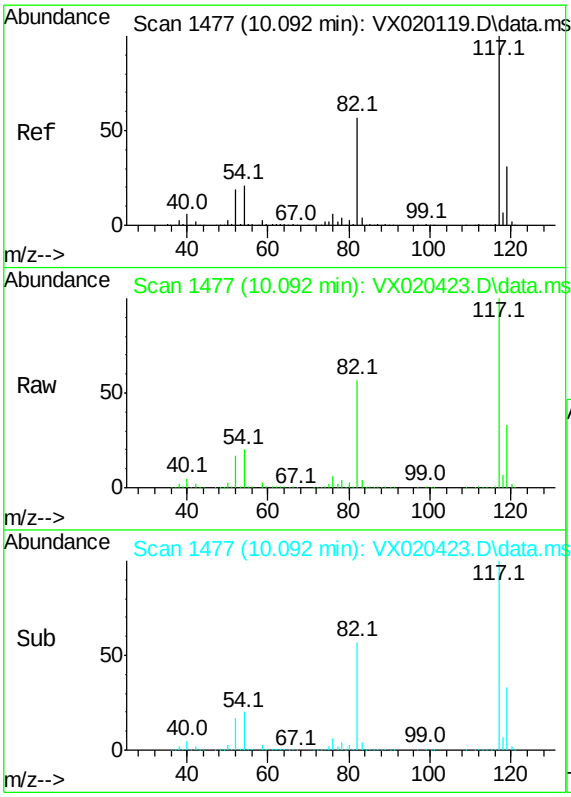
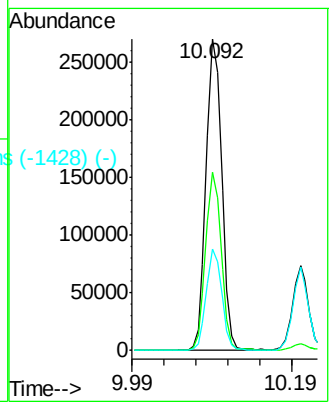
12/30/2020 2:23:42 PM

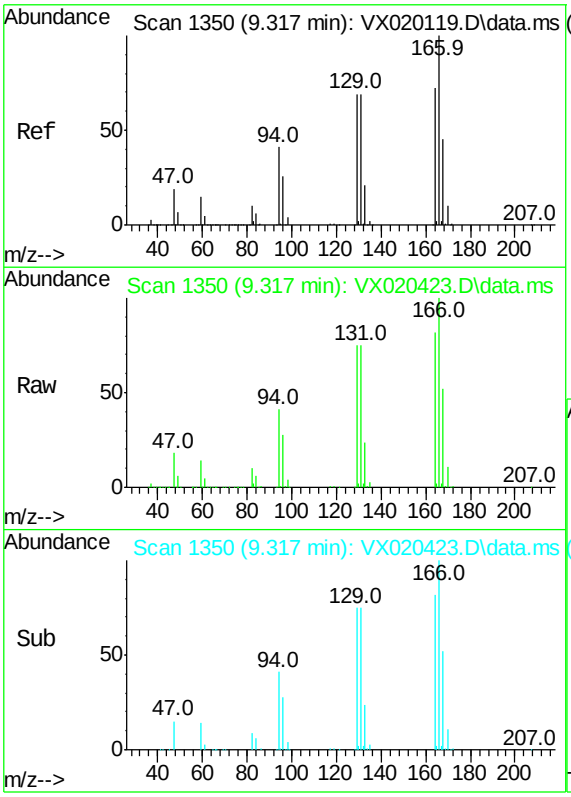


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:117 Resp: 365726

Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.4	71.2
119	32.6	26.6	39.8

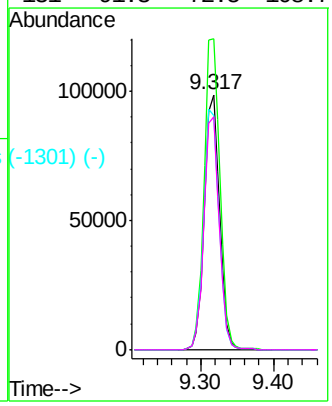




#64
Tetrachloroethene
Concen: 52.41 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:164 Resp: 144420

Ion	Ratio	Lower	Upper
164	100		
166	122.0	103.4	155.2
129	92.0	70.8	106.2
131	91.3	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
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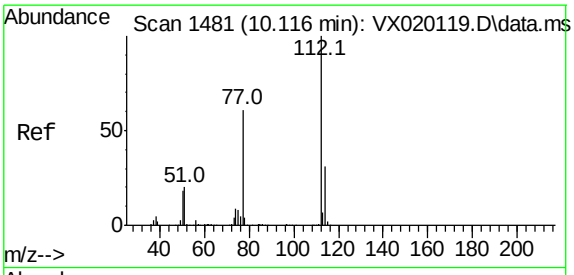
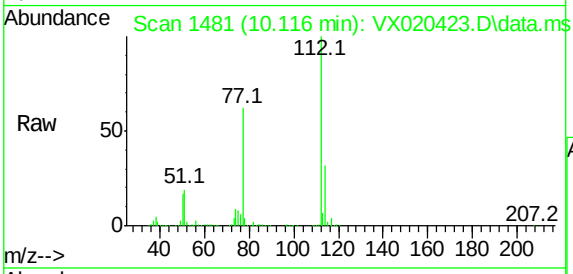
12/30/2020 2:23:42 PM

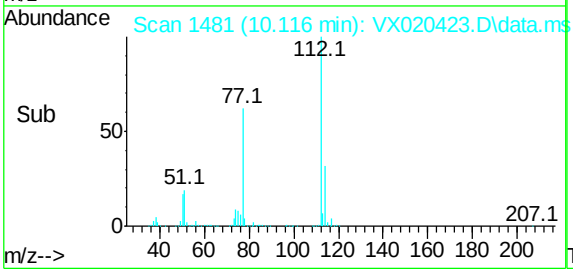


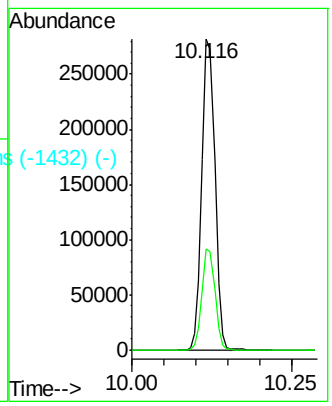
#65
Chlorobenzene
Concen: 49.28 ug/l
RT: 10.116 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

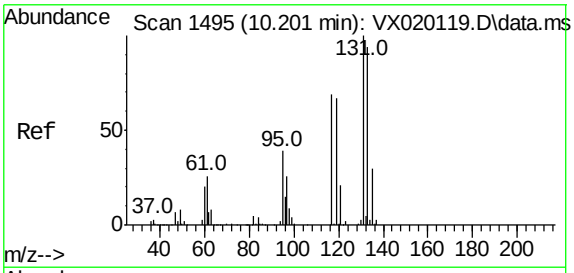
Tgt Ion:112 Resp: 386651

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.8	38.6





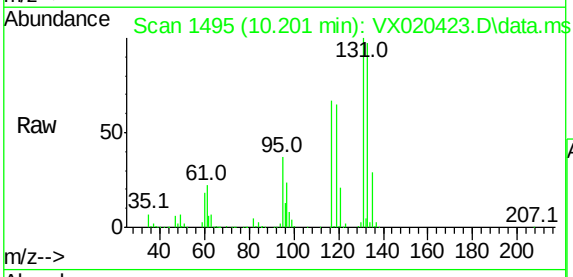


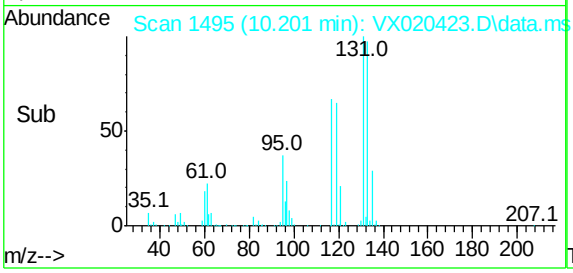


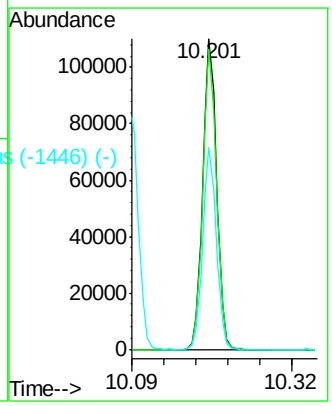
#66
1,1,1,2-Tetrachloroethane
Concen: 52.48 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:131 Resp: 147764

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.7	143.1
119	64.5	32.1	96.5







Instrument :
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ClientSampleId :
VSTDCCC050

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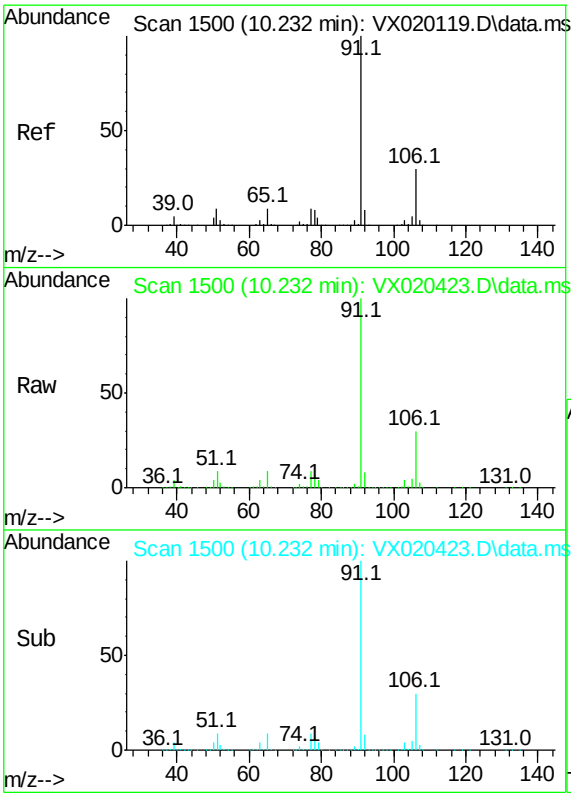
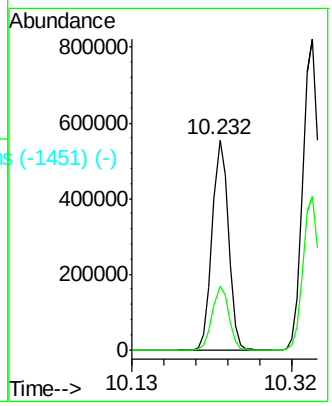
12/30/2020 2:23:42 PM

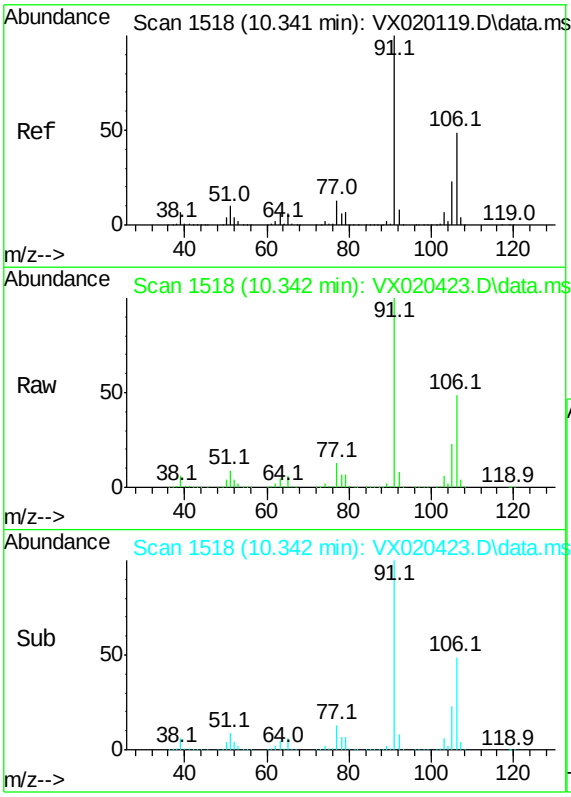


#67
Ethyl Benzene
Concen: 51.54 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 91 Resp: 706901

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.6	37.0

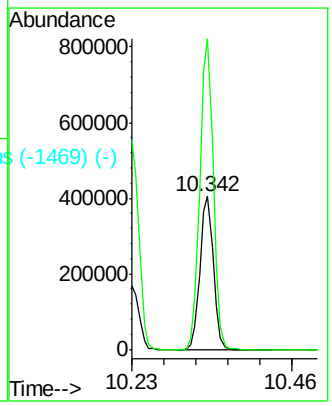




#68
m/p-Xylenes
Concen: 104.54 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:106 Resp: 535303

Ion	Ratio	Lower	Upper
106	100		
91	204.0	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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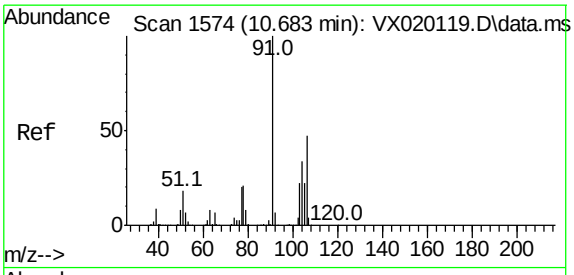
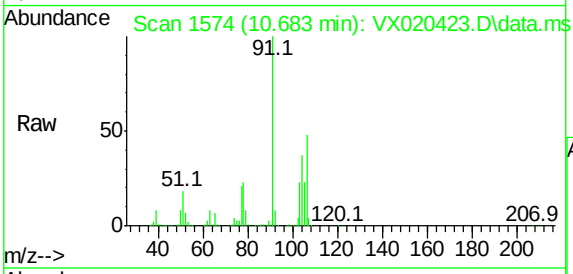
12/30/2020 2:23:42 PM

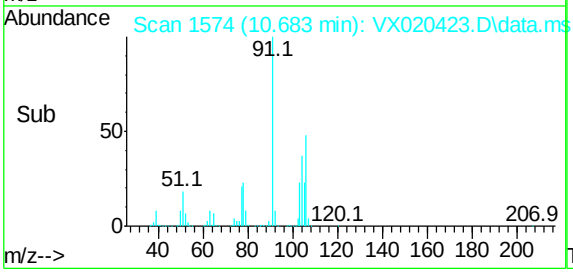


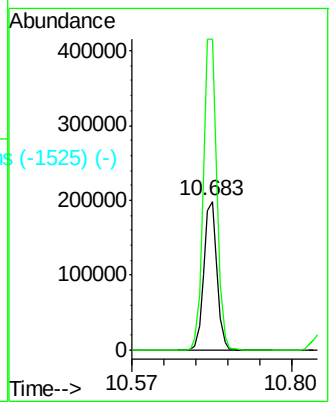
#60
o-Xylene
Concen: 51.85 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

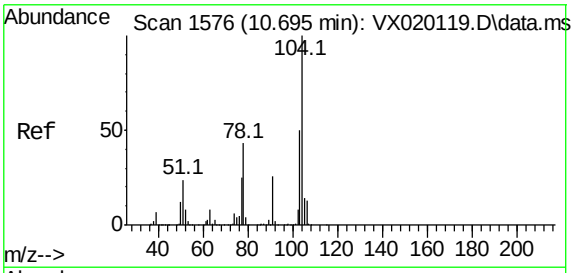
Tgt Ion:106 Resp: 255523

Ion	Ratio	Lower	Upper
106	100		
91	216.6	108.1	324.2





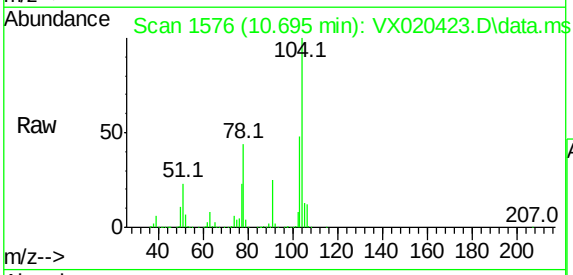


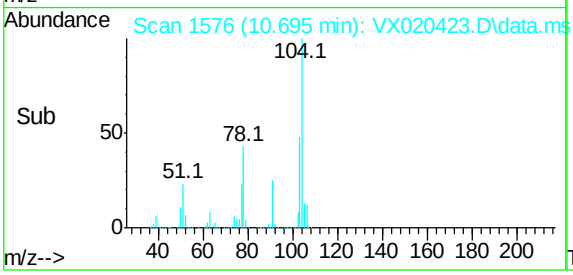


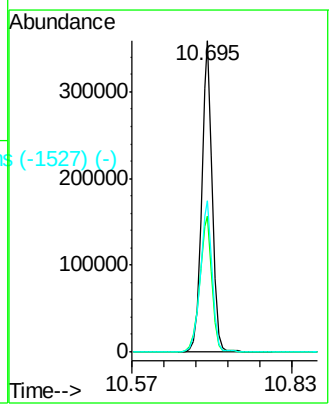
#70
Styrene
Concen: 53.27 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:104 Resp: 443782

Ion	Ratio	Lower	Upper
104	100		
78	49.9	40.0	60.0
103	54.1	43.4	65.0







Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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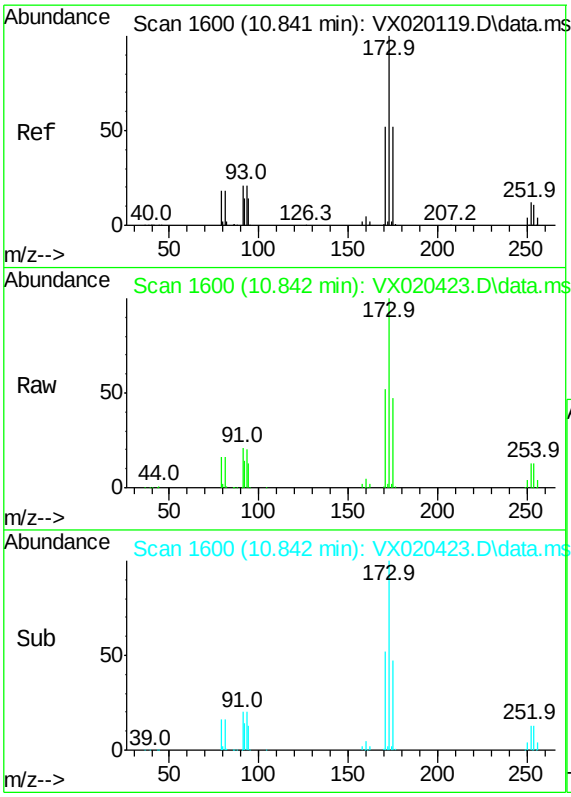
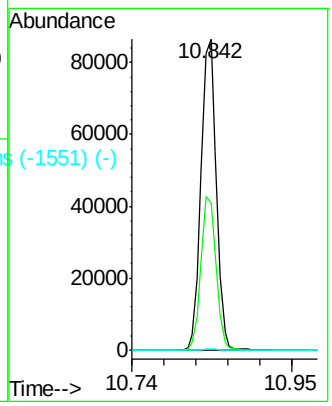
12/30/2020 2:23:42 PM

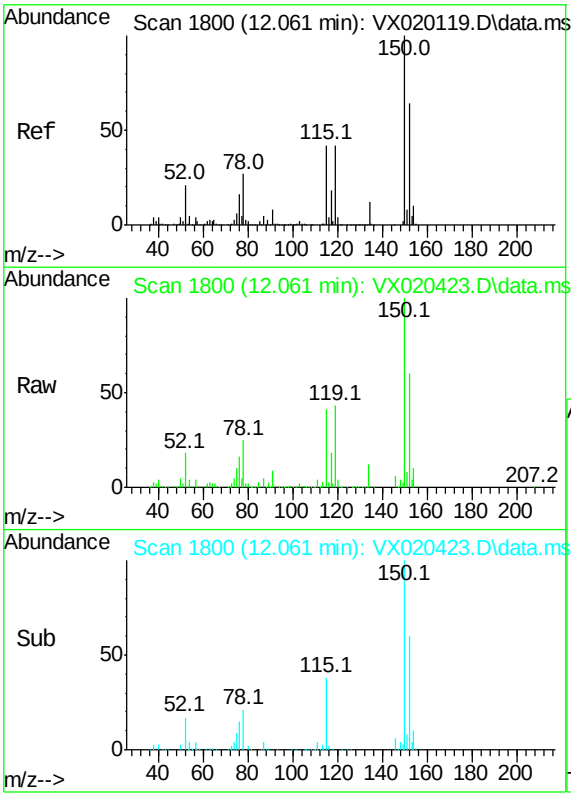


#71
Bromoform
Concen: 54.63 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:173 Resp: 119117

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.8
254	0.2	0.1	0.1#

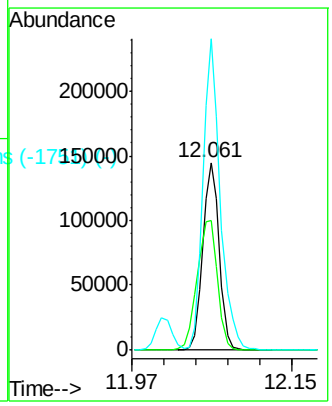




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:152 Resp: 182415

Ion	Ratio	Lower	Upper
152	100		
115	85.8	41.1	123.3
150	175.8	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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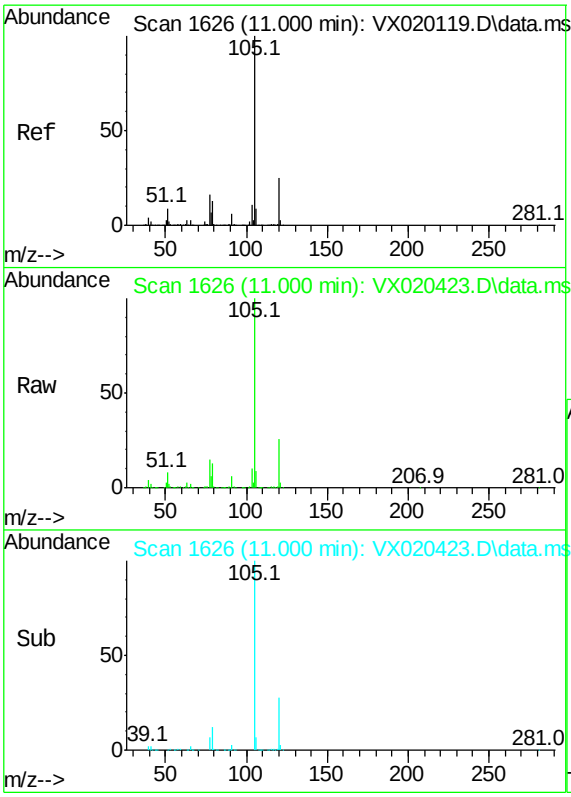
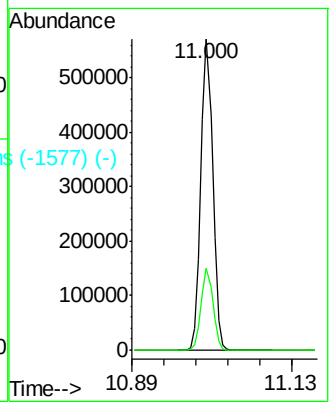
12/30/2020 2:23:42 PM

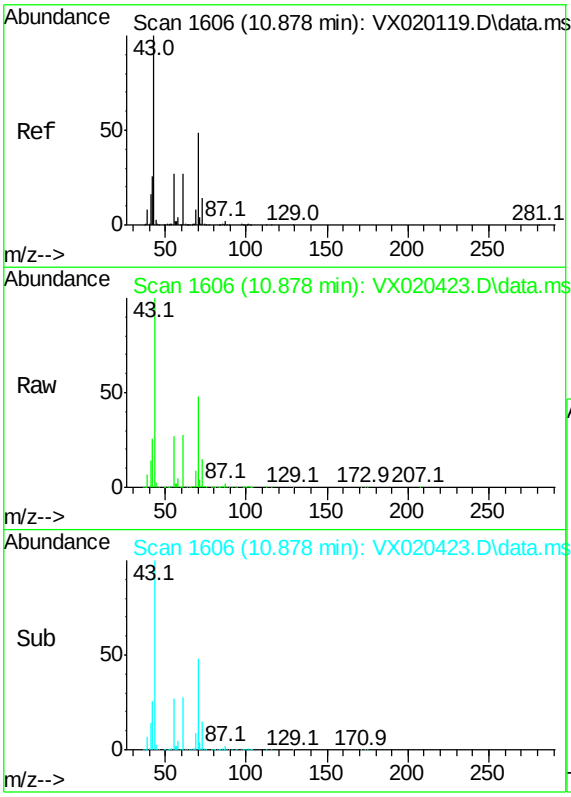


#73
Isopropylbenzene
Concen: 53.06 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:105 Resp: 698495

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.6

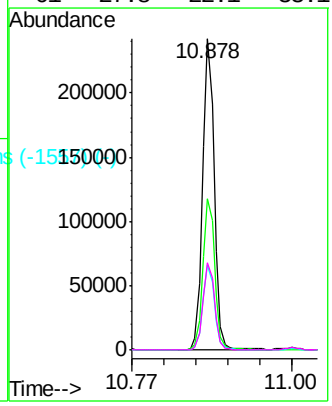




#74
N-amyl acetate
Concen: 52.21 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 43 Resp: 277070

Ion	Ratio	Lower	Upper
43	100		
70	49.4	39.0	58.6
55	27.5	21.5	32.3
61	27.8	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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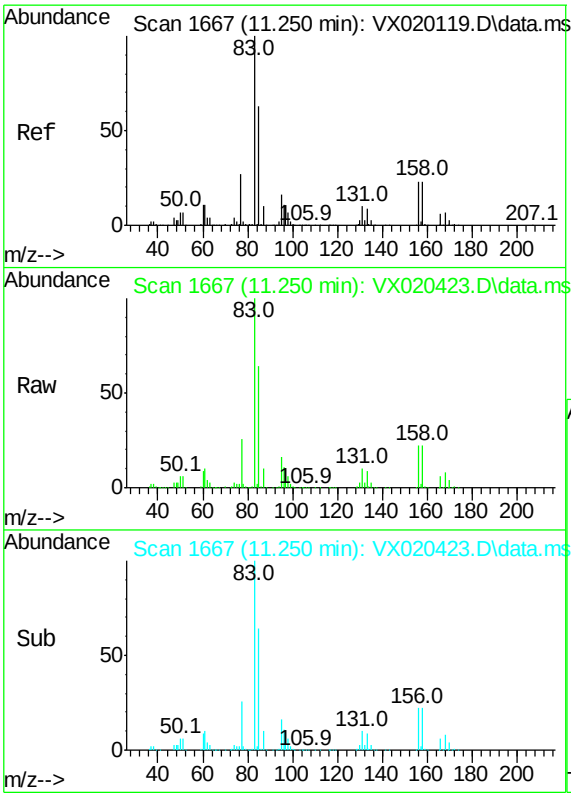
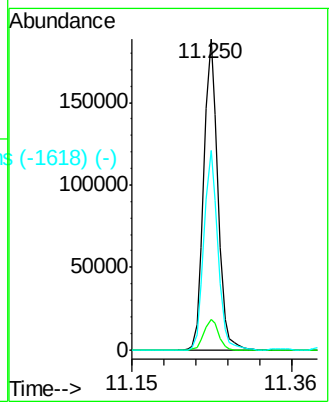
SAM
12/30/2020 2:23:42 PM

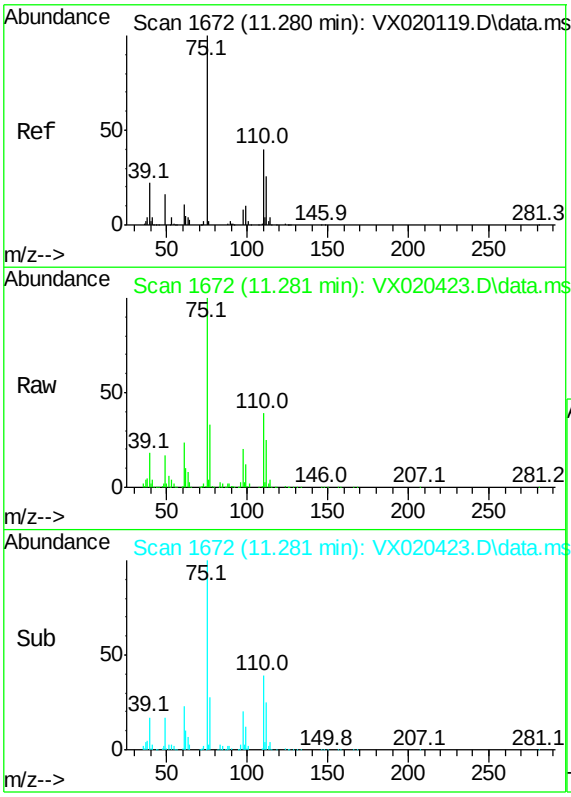


#75
1,1,2,2-Tetrachloroethane
Concen: 50.04 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 83 Resp: 239243

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.2
85	63.9	31.8	95.4

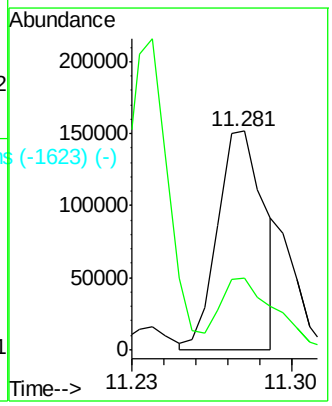




#76
1,2,3-Trichloropropane
Concen: 50.97 ug/l m
RT: 11.281 min Scan# 1672
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 75 Resp: 229031

Ion	Ratio	Lower	Upper
75	100		
77	37.9	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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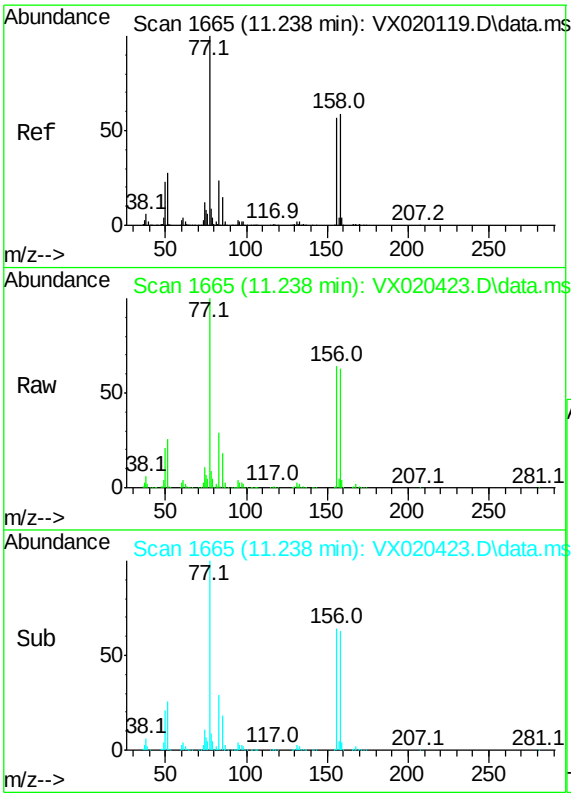
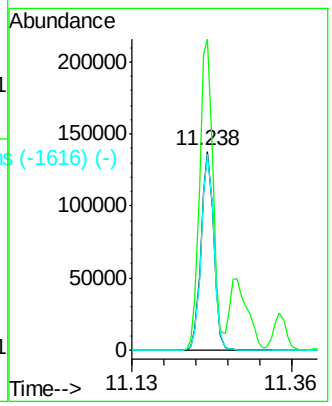
12/30/2020 2:23:42 PM

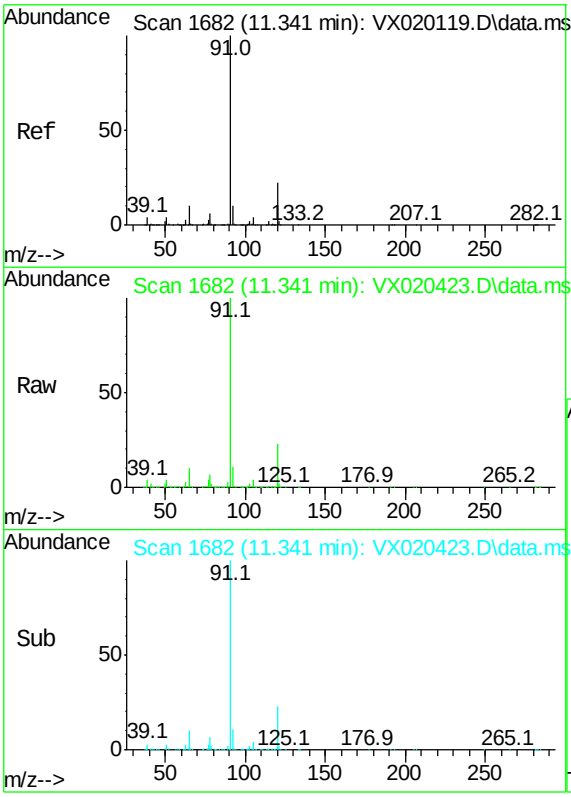


#77
Bromobenzene
Concen: 49.38 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:156 Resp: 171839

Ion	Ratio	Lower	Upper
156	100		
77	167.5	82.8	248.6
158	98.7	49.1	147.4

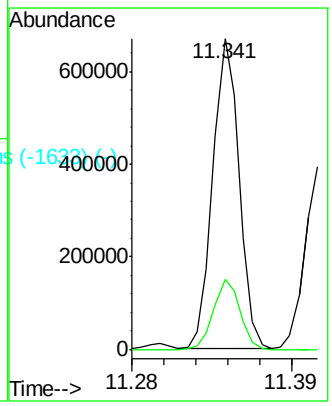




#78
n-propylbenzene
Concen: 52.74 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 91 Resp: 800222

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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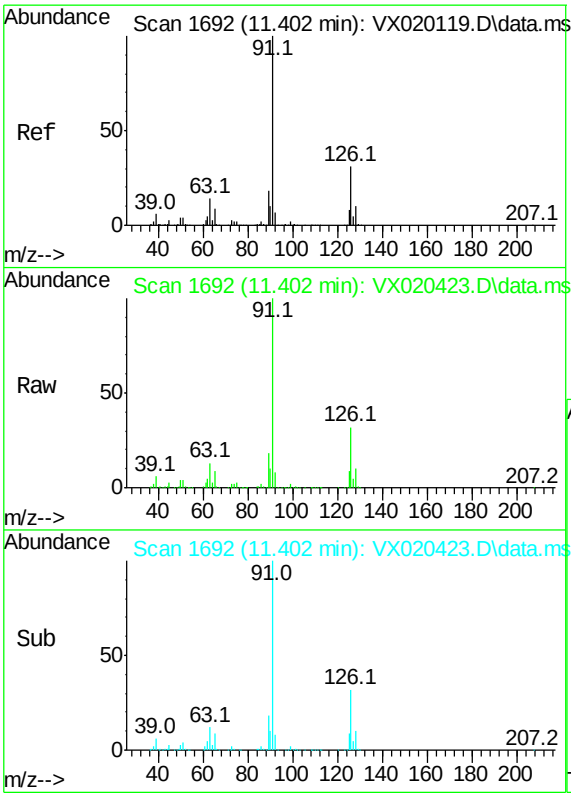
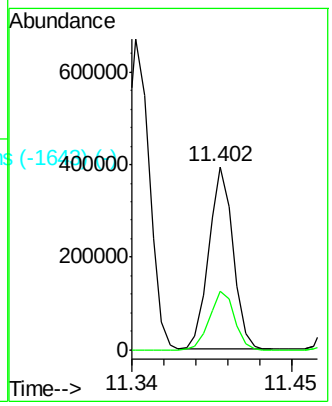
SAM
12/30/2020 2:23:42 PM

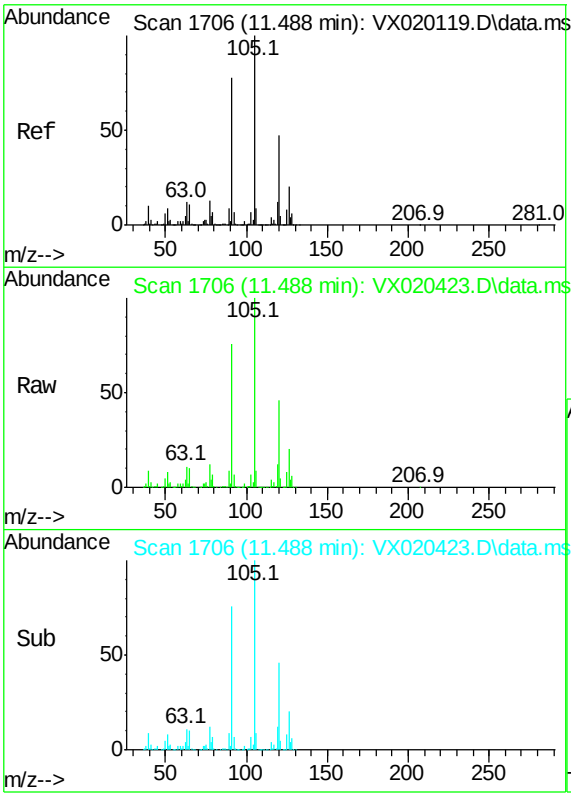


#79
2-Chlorotoluene
Concen: 50.80 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 91 Resp: 480595

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.6	49.8

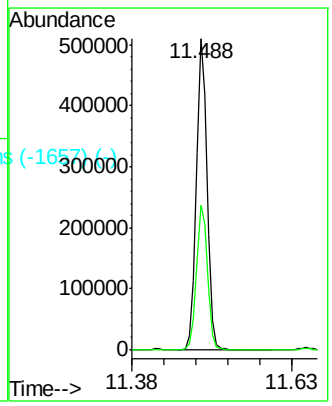




#80
1,3,5-Trimethylbenzene
Concen: 53.65 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:105 Resp: 598656

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.8	71.5



Instrument :
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ClientSampleId :
VSTDCCC050

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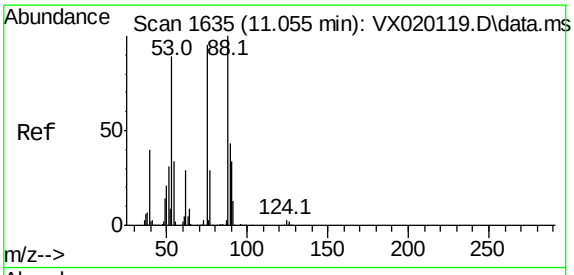
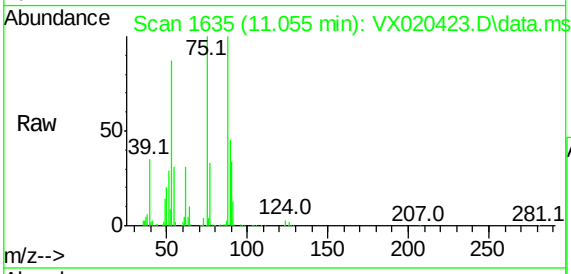
12/30/2020 2:23:42 PM

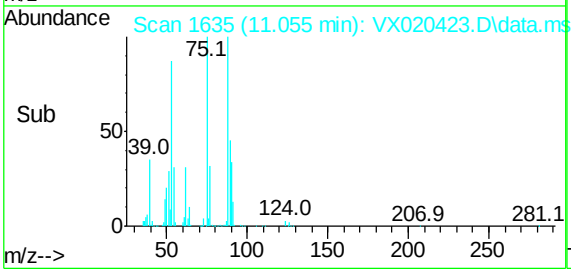


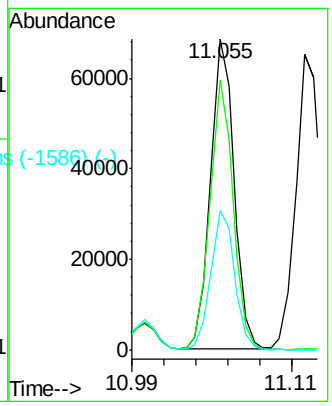
#81
trans-1,4-Dichloro-2-butene
Concen: 54.18 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

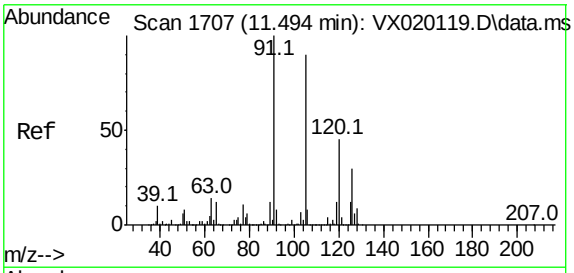
Tgt Ion: 75 Resp: 82053

Ion	Ratio	Lower	Upper
75	100		
53	85.3	74.5	111.7
89	45.2	37.9	56.9





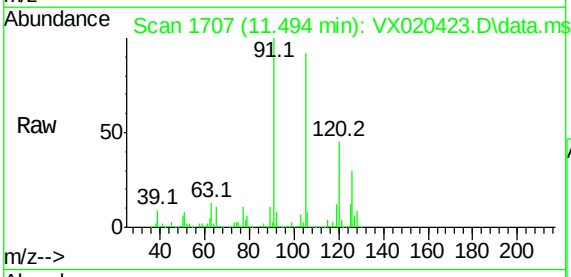


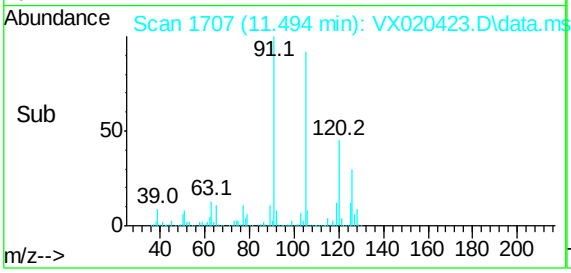


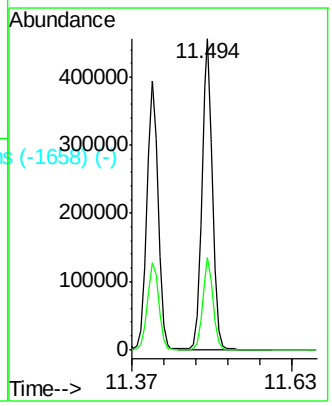
#88
4-Chlorotoluene
Concen: 50.87 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 91 Resp: 562107

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.9	44.5

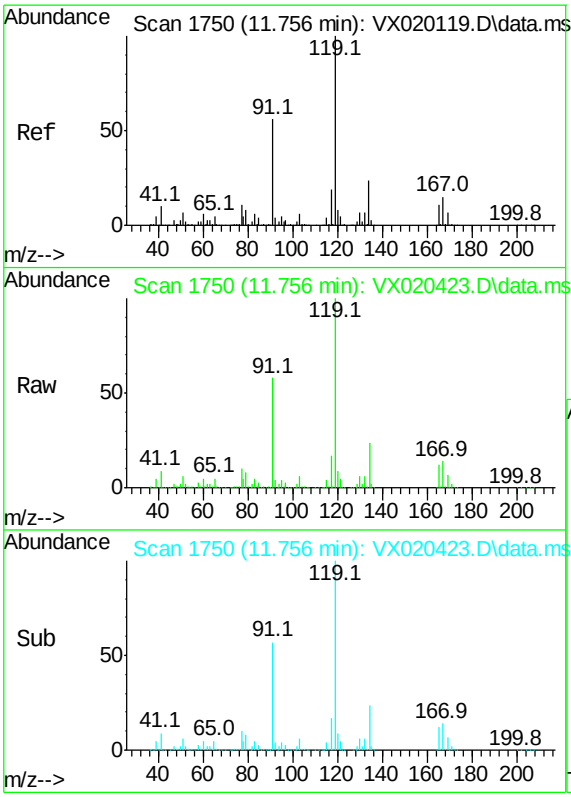






Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

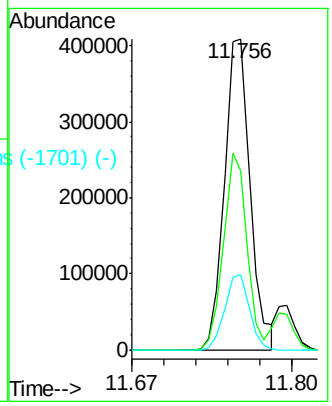
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

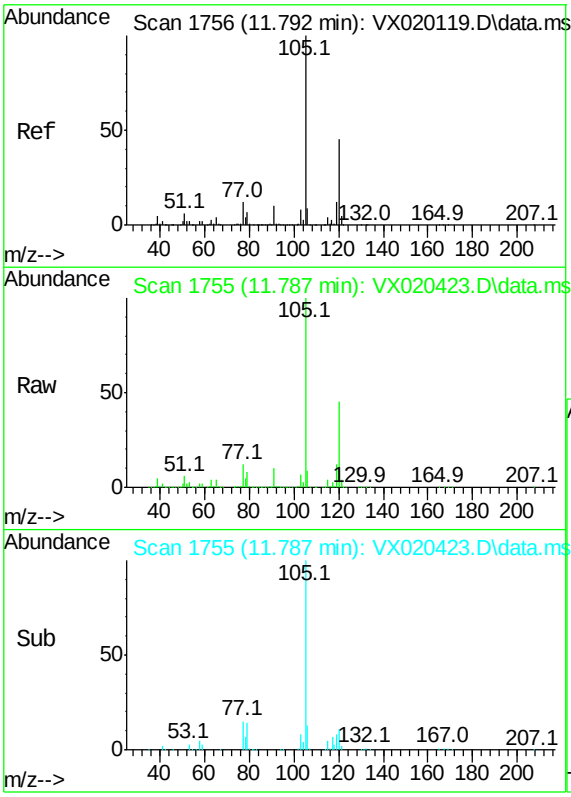


#83
tert-Butylbenzene
Concen: 53.27 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:119 Resp: 570495

Ion	Ratio	Lower	Upper
119	100		
91	57.4	27.9	83.7
134	23.1	11.3	33.9

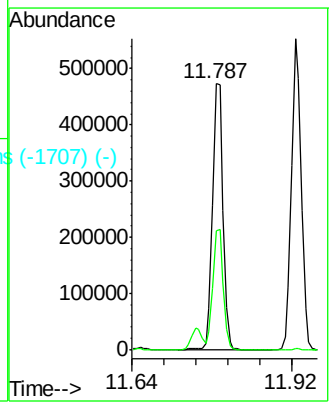




#84
1,2,4-Trimethylbenzene
Concen: 52.83 ug/l
RT: 11.787 min Scan# 1755
Delta R.T. -0.005 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:105 Resp: 598381

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.3



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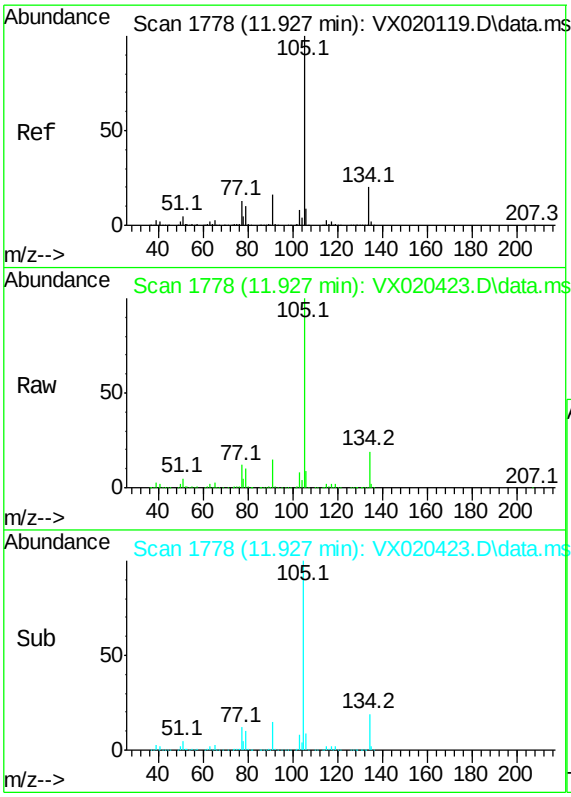
MSVOA_X
ClientSampleId :
VSTDCCC050

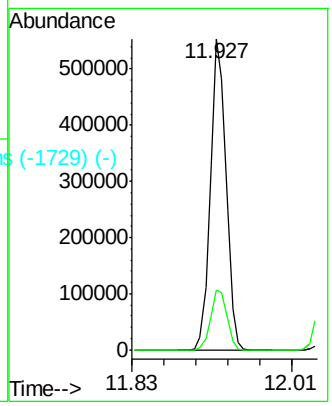
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

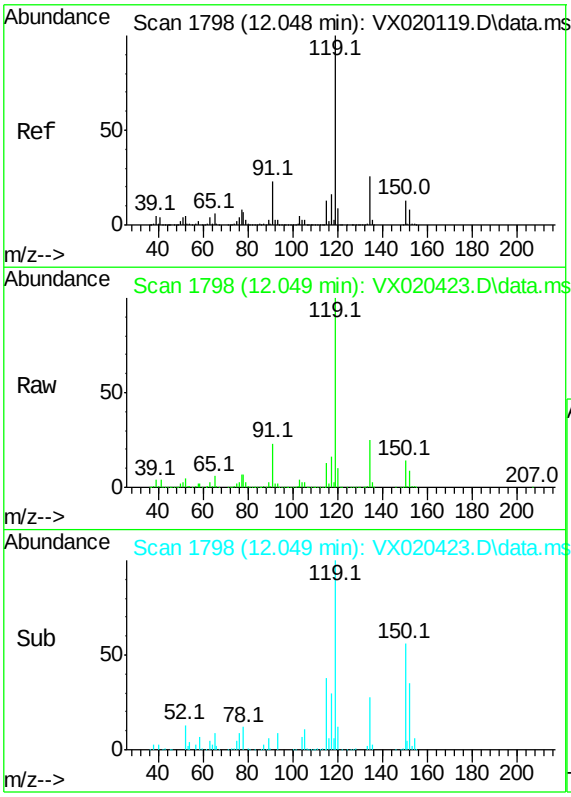


#85
sec-Butylbenzene
Concen: 54.35 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:105 Resp: 671622

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	29.8

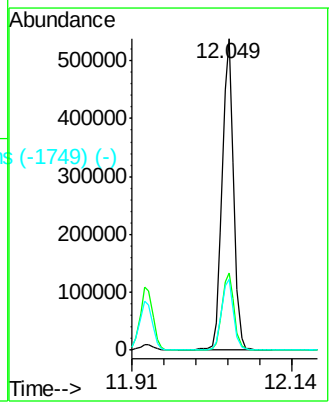




#86
p-Isopropyltoluene
Concen: 54.56 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:119 Resp: 621772

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.7
91	23.4	11.7	35.0



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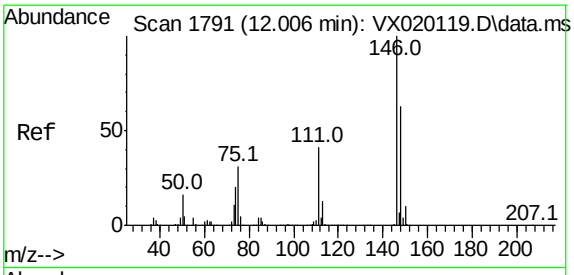
ClientSampleId :
VSTDCCC050

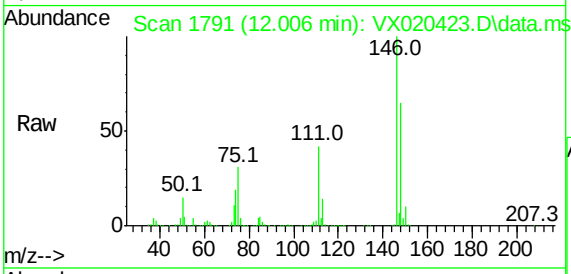
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

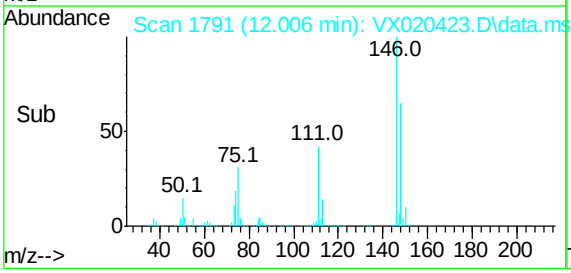


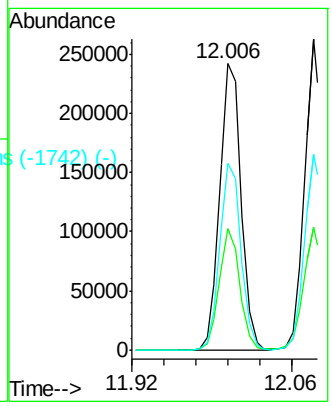
#87
1,3-Dichlorobenzene
Concen: 49.81 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

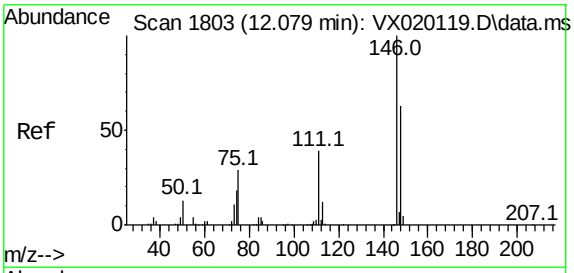
Tgt Ion:146 Resp: 309886

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.2	60.5
148	64.5	31.9	95.7





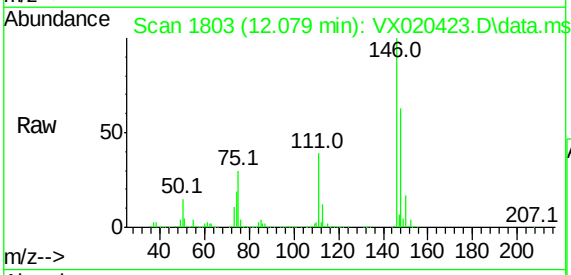


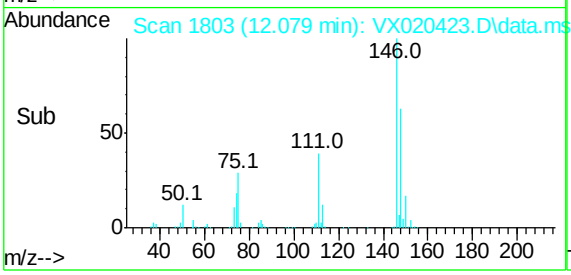


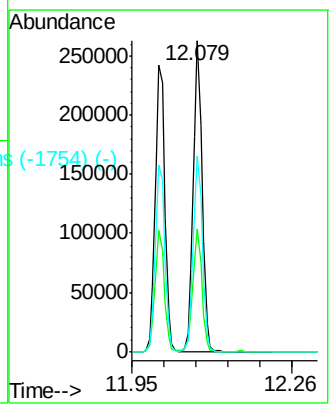
#88
1,4-Dichlorobenzene
Concen: 47.73 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:146 Resp: 309802

Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.6	58.8
148	65.0	31.6	95.0

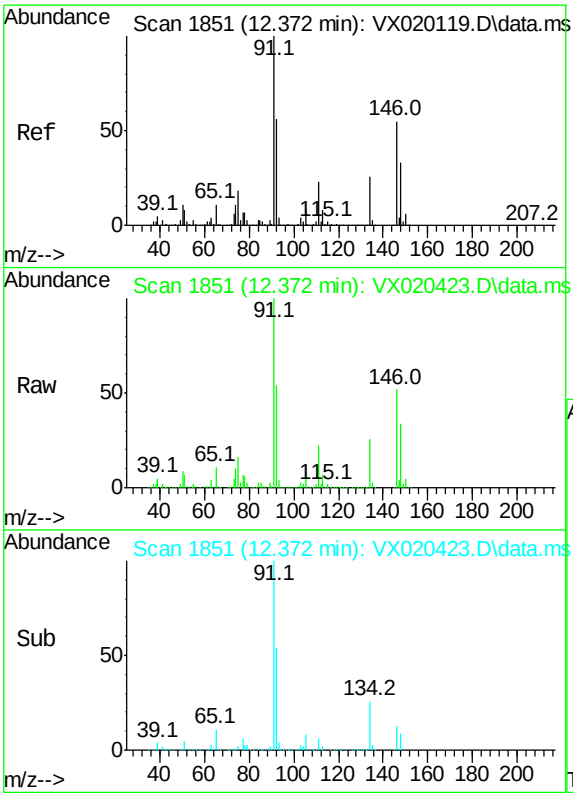






Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

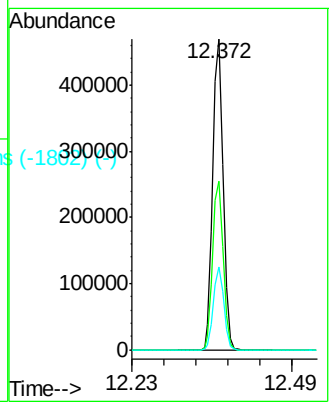
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

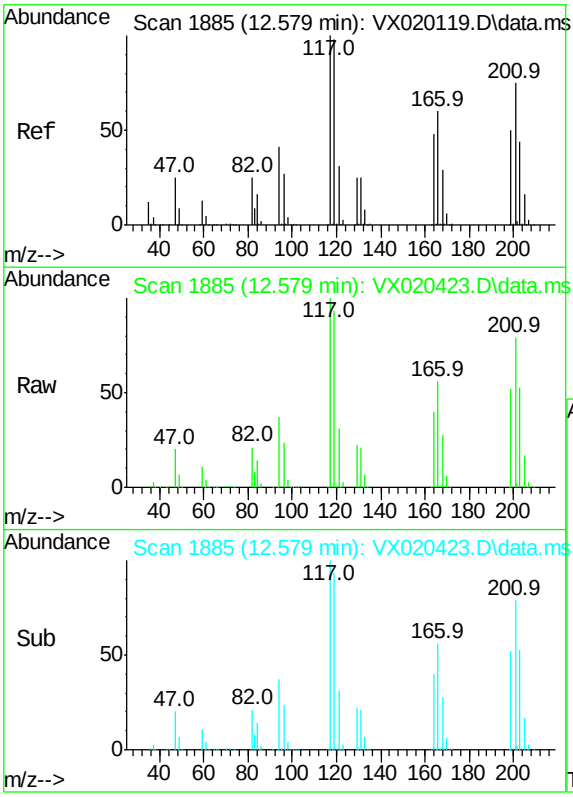


#89
n-Butylbenzene
Concen: 54.67 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion: 91 Resp: 545835

Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.4	82.0
134	26.5	13.2	39.5

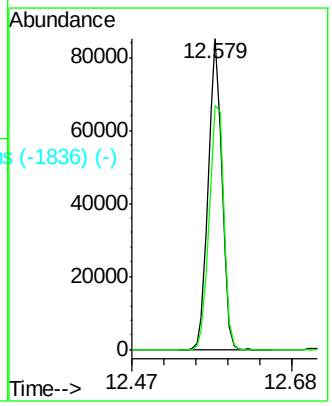




#90
Hexachloroethane
Concen: 53.53 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

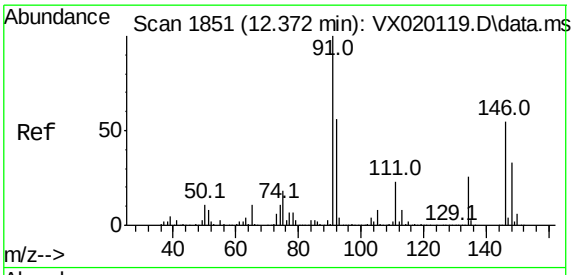
Tgt Ion:117 Resp: 105237

Ion	Ratio	Lower	Upper
117	100		
201	84.4	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

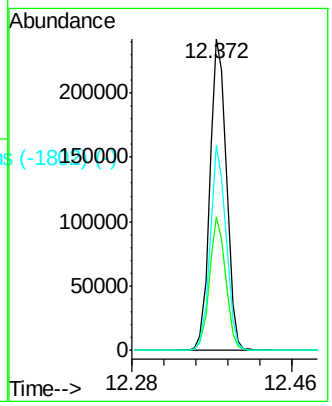
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

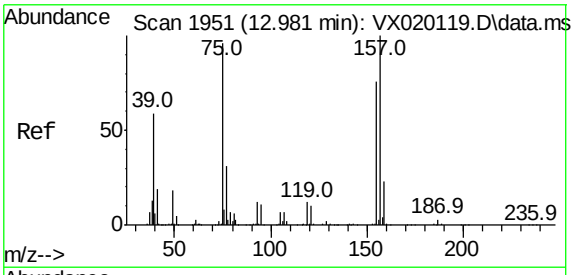


#91
1,2-Dichlorobenzene
Concen: 50.12 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:146 Resp: 310245

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.2
148	63.4	31.9	95.5

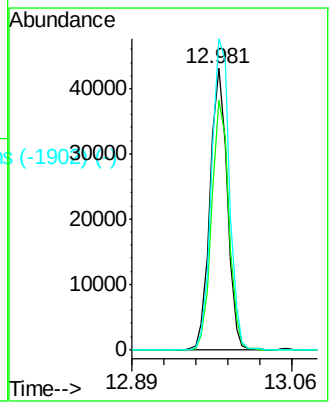




#92
1,2-Dibromo-3-Chloropropane
Concen: 52.32 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

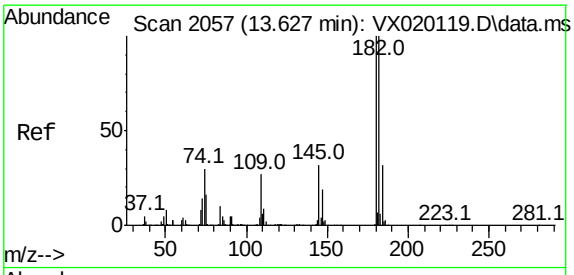
Tgt Ion: 75 Resp: 52501

Ion	Ratio	Lower	Upper
75	100		
155	88.8	45.3	135.9
157	114.9	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

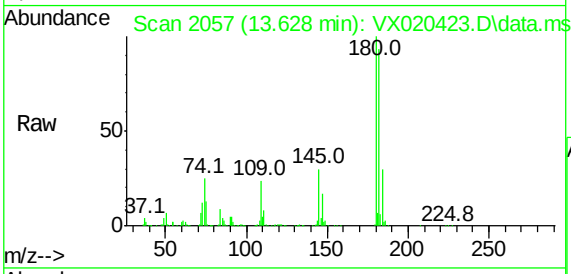
Manual Integrations APPROVED
SAM
12/30/2020 2:23:42 PM

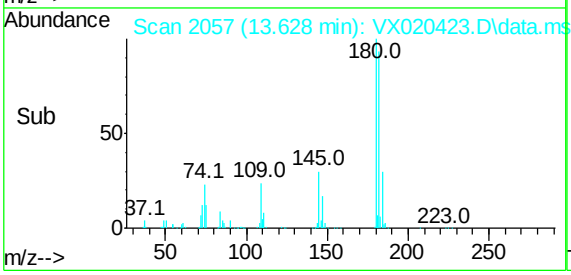


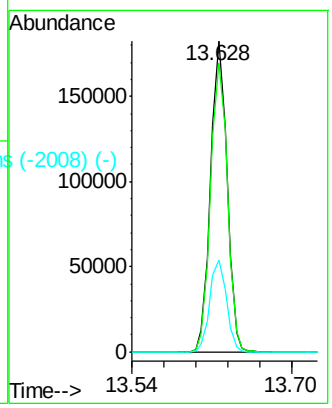
#93
1,2,4-Trichlorobenzene
Concen: 53.79 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

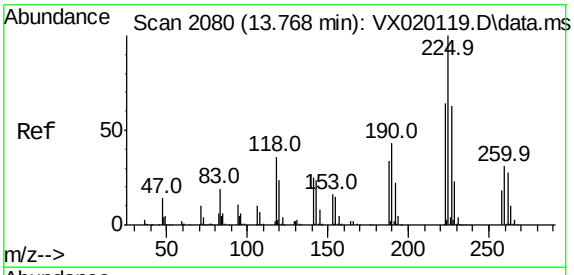
Tgt Ion:180 Resp: 214139

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.7	143.1
145	30.1	15.0	45.0





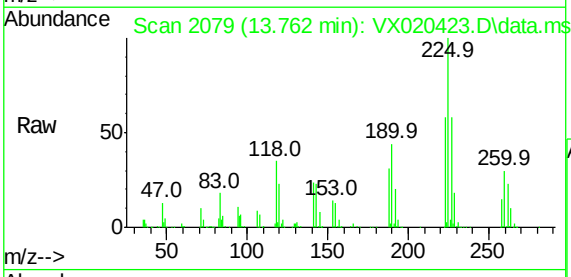


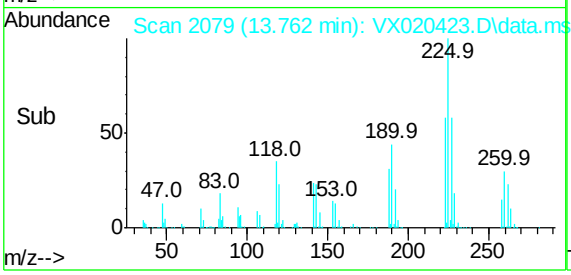


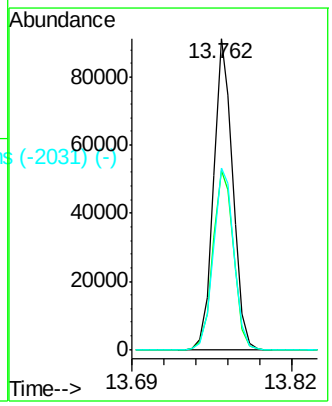
#94
Hexachlorobutadiene
Concen: 61.69 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:225 Resp: 104204

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.1	93.2
227	61.9	31.6	95.0







Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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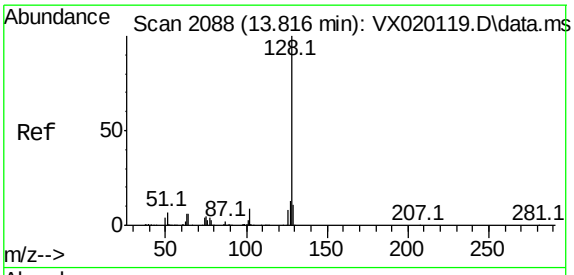
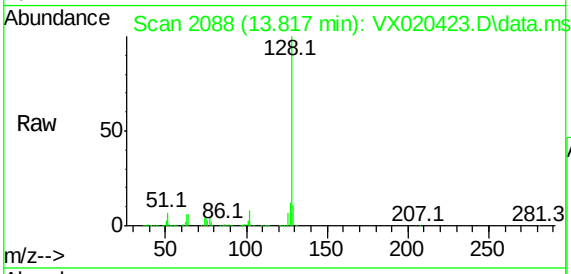
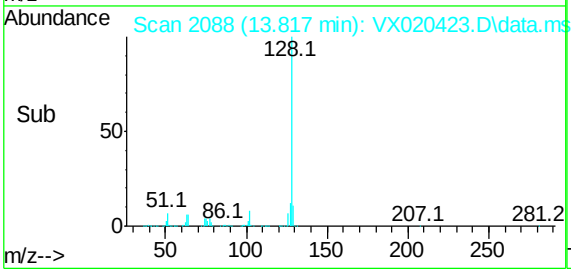
12/30/2020 2:23:42 PM



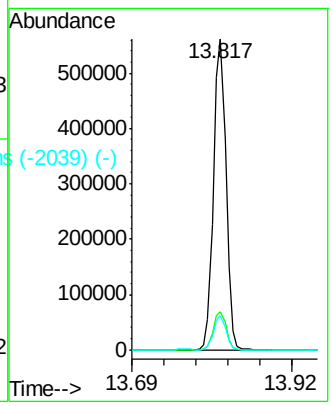


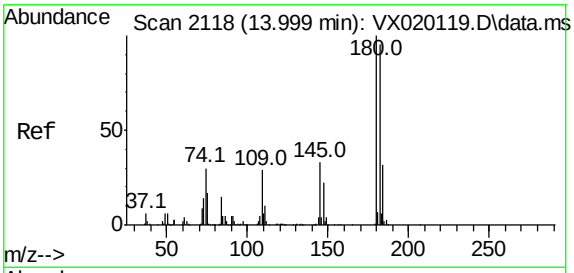


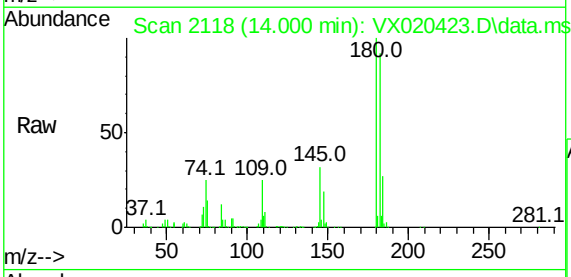
#95
Naphthalene
Concen: 55.74 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

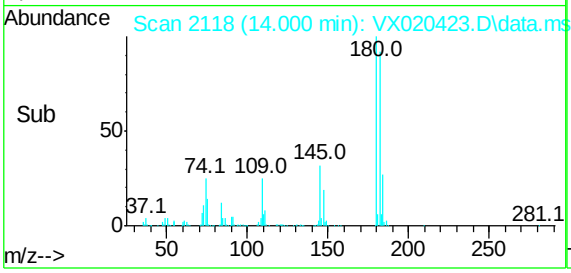
Tgt Ion:128 Resp: 702806

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.3	15.5
129	10.8	8.8	13.2





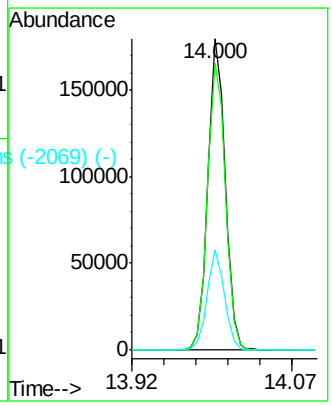




#96
1,2,3-Trichlorobenzene
Concen: 53.67 ug/l
RT: 14.000 min Scan# 2118
Delta R.T. 0.001 min
Lab File: VX020423.D
Acq: 29 Dec 2020 09:57

Tgt Ion:180 Resp: 211363

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.9
145	31.8	16.1	48.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	116	0.00
2	T	Dichlorodifluoromethane	50.000	44.426	11.1	110	0.00
3	P	Chloromethane	50.000	41.666	16.7	98	0.00
4	C	Vinyl Chloride	50.000	42.777	14.4#	106	0.00
5	T	Bromomethane	50.000	41.523	17.0	102	0.00
6	T	Chloroethane	50.000	44.531	10.9	103	0.00
7	T	Trichlorofluoromethane	50.000	44.803	10.4	114	0.00
8	T	Diethyl Ether	50.000	43.665	12.7	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	44.762	10.5	114	0.00
10	T	Methyl Iodide	50.000	39.573	20.9	92	0.00
11	T	Tert butyl alcohol	250.000	231.515	7.4	112	0.00
12	CM	1,1-Dichloroethene	50.000	44.347	11.3#	111	0.00
13	T	Acrolein	250.000	225.393	9.8	104	0.00
14	T	Allyl chloride	50.000	47.711	4.6	109	0.00
15	T	Acrylonitrile	250.000	245.399	1.8	107	0.00
16	T	Acetone	250.000	252.362	-0.9	117	0.00
17	T	Carbon Disulfide	50.000	43.207	13.6	108	0.00
18	T	Methyl Acetate	50.000	51.251	-2.5	113	0.00
19	T	Methyl tert-butyl Ether	50.000	46.864	6.3	100	0.00
20	T	Methylene Chloride	50.000	43.230	13.5	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	44.496	11.0	105	0.00
22	T	Diisopropyl ether	50.000	47.303	5.4	102	0.00
23	T	Vinyl Acetate	250.000	237.644	4.9	99	0.00
24	P	1,1-Dichloroethane	50.000	46.112	7.8	105	0.00
25	T	2-Butanone	250.000	257.681	-3.1	113	0.00
26	T	2,2-Dichloropropane	50.000	47.215	5.6	112	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.642	8.7	102	0.00
28	T	Bromochloromethane	50.000	44.514	11.0	100	0.00
29	T	Tetrahydrofuran	250.000	243.368	2.7	105	0.00
30	C	Chloroform	50.000	45.304	9.4#	101	0.00
31	T	Cyclohexane	50.000	47.857	4.3	120	0.00
32	T	1,1,1-Trichloroethane	50.000	47.090	5.8	112	0.00
33	S	1,2-Dichloroethane-d4	50.000	41.144	17.7	92	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35	S	Dibromofluoromethane	50.000	48.061	3.9	99	0.00
36	T	1,1-Dichloropropene	50.000	49.236	1.5	112	0.00
37	T	Ethyl Acetate	50.000	51.673	-3.3	103	0.00
38	T	Carbon Tetrachloride	50.000	51.377	-2.8	114	0.00
39	T	Methylcyclohexane	50.000	52.987	-6.0	124	0.00
40	TM	Benzene	50.000	49.502	1.0	103	0.00
41	T	Methacrylonitrile	50.000	53.089	-6.2	102	0.00
42	TM	1,2-Dichloroethane	50.000	46.660	6.7	93	0.00
43	T	Isopropyl Acetate	50.000	51.872	-3.7	102	0.00
44	TM	Trichloroethene	50.000	49.177	1.6	107	0.00
45	C	1,2-Dichloropropane	50.000	51.080	-2.2#	103	0.00
46	T	Dibromomethane	50.000	47.973	4.1	97	0.00
47	T	Bromodichloromethane	50.000	51.303	-2.6	101	0.00
48	T	Methyl methacrylate	50.000	52.018	-4.0	101	0.00
49	T	1,4-Dioxane	1000.000	1066.118	-6.6	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	S	Toluene-d8	50.000	47.797	4.4	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	267.247	-6.9	104	0.00
52	CM	Toluene	50.000	50.950	-1.9#	105	0.00
53	T	t-1,3-Dichloropropene	50.000	52.142	-4.3	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.269	-4.5	101	0.00
55	T	1,1,2-Trichloroethane	50.000	50.184	-0.4	100	0.00
56	T	Ethyl methacrylate	50.000	54.434	-8.9	103	0.00
57	T	1,3-Dichloropropane	50.000	50.233	-0.5	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	253.101	-1.2	99	0.00
59	T	2-Hexanone	250.000	274.128	-9.7	107	0.00
60	T	Dibromochloromethane	50.000	53.109	-6.2	103	0.00
61	T	1,2-Dibromoethane	50.000	50.420	-0.8	99	0.00
62	S	4-Bromofluorobenzene	50.000	48.771	2.5	102	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64	T	Tetrachloroethene	50.000	52.409	-4.8	117	0.00
65	PM	Chlorobenzene	50.000	49.275	1.5	101	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.482	-5.0	105	0.00
67	C	Ethyl Benzene	50.000	51.536	-3.1#	106	0.00
68	T	m/p-Xylenes	100.000	104.540	-4.5	105	0.00
69	T	o-Xylene	50.000	51.849	-3.7	103	0.00
70	T	Styrene	50.000	53.269	-6.5	103	0.00
71	P	Bromoform	50.000	54.630	-9.3	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73	T	Isopropylbenzene	50.000	53.057	-6.1	111	0.00
74	T	N-amyl acetate	50.000	52.212	-4.4	100	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.040	-0.1	102	0.00
76	T	1,2,3-Trichloropropane	50.000	50.971	-1.9	104	0.00
77	T	Bromobenzene	50.000	49.379	1.2	104	0.00
78	T	n-propylbenzene	50.000	52.740	-5.5	111	0.00
79	T	2-Chlorotoluene	50.000	50.798	-1.6	105	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.647	-7.3	110	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	54.176	-8.4	105	0.00
82	T	4-Chlorotoluene	50.000	50.867	-1.7	104	0.00
83	T	tert-Butylbenzene	50.000	53.271	-6.5	112	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.828	-5.7	105	0.00
85	T	sec-Butylbenzene	50.000	54.346	-8.7	118	0.00
86	T	p-Isopropyltoluene	50.000	54.555	-9.1	114	0.00
87	T	1,3-Dichlorobenzene	50.000	49.808	0.4	102	0.00
88	T	1,4-Dichlorobenzene	50.000	47.731	4.5	101	0.00
89	T	n-Butylbenzene	50.000	54.665	-9.3	117	0.00
90	T	Hexachloroethane	50.000	53.525	-7.0	115	0.00
91	T	1,2-Dichlorobenzene	50.000	50.116	-0.2	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.325	-4.7	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.791	-7.6	112	0.00
94	T	Hexachlorobutadiene	50.000	61.694	-23.4	151	0.00
95	T	Naphthalene	50.000	55.745	-11.5	107	0.00
96	T	1,2,3-Trichlorobenzene	50.000	53.667	-7.3	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	116	0.00
2	T	Dichlorodifluoromethane	0.543	0.483	11.0	110	0.00
3	P	Chloromethane	0.630	0.525	16.7	98	0.00
4	C	Vinyl Chloride	0.686	0.587	14.4#	106	0.00
5	T	Bromomethane	0.220	0.182	17.3	102	0.00
6	T	Chloroethane	0.427	0.380	11.0	103	0.00
7	T	Trichlorofluoromethane	0.882	0.790	10.4	114	0.00
8	T	Diethyl Ether	0.384	0.335	12.8	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.499	0.447	10.4	114	0.00
10	T	Methyl Iodide	0.622	0.523	15.9	92	0.00
11	T	Tert butyl alcohol	0.150	0.139	7.3	112	0.00
12	CM	1,1-Dichloroethene	0.511	0.453	11.4#	111	0.00
13	T	Acrolein	0.094	0.085	9.6	104	0.00
14	T	Allyl chloride	0.906	0.865	4.5	109	0.00
15	T	Acrylonitrile	0.345	0.339	1.7	107	0.00
16	T	Acetone	0.306	0.309	-1.0	117	0.00
17	T	Carbon Disulfide	1.509	1.304	13.6	108	0.00
18	T	Methyl Acetate	0.682	0.699	-2.5	113	0.00
19	T	Methyl tert-butyl Ether	1.912	1.792	6.3	100	0.00
20	T	Methylene Chloride	0.689	0.596	13.5	99	0.00
21	T	trans-1,2-Dichloroethene	0.620	0.552	11.0	105	0.00
22	T	Diisopropyl ether	1.850	1.750	5.4	102	0.00
23	T	Vinyl Acetate	1.577	1.499	4.9	99	0.00
24	P	1,1-Dichloroethane	1.090	1.005	7.8	105	0.00
25	T	2-Butanone	0.445	0.458	-2.9	113	0.00
26	T	2,2-Dichloropropane	0.899	0.849	5.6	112	0.00
27	T	cis-1,2-Dichloroethene	0.699	0.639	8.6	102	0.00
28	T	Bromochloromethane	0.485	0.432	10.9	100	0.00
29	T	Tetrahydrofuran	0.280	0.272	2.9	105	0.00
30	C	Chloroform	1.109	1.005	9.4#	101	0.00
31	T	Cyclohexane	0.924	0.885	4.2	120	0.00
32	T	1,1,1-Trichloroethane	0.925	0.871	5.8	112	0.00
33	S	1,2-Dichloroethane-d4	0.670	0.552	17.6	92	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35	S	Dibromofluoromethane	0.320	0.307	4.1	99	0.00
36	T	1,1-Dichloropropene	0.494	0.487	1.4	112	0.00
37	T	Ethyl Acetate	0.514	0.531	-3.3	103	0.00
38	T	Carbon Tetrachloride	0.470	0.483	-2.8	114	0.00
39	T	Methylcyclohexane	0.570	0.604	-6.0	124	0.00
40	TM	Benzene	1.538	1.523	1.0	103	0.00
41	T	Methacrylonitrile	0.274	0.291	-6.2	102	0.00
42	TM	1,2-Dichloroethane	0.528	0.492	6.8	93	0.00
43	T	Isopropyl Acetate	0.811	0.841	-3.7	102	0.00
44	TM	Trichloroethene	0.398	0.391	1.8	107	0.00
45	C	1,2-Dichloropropane	0.389	0.397	-2.1#	103	0.00
46	T	Dibromomethane	0.266	0.255	4.1	97	0.00
47	T	Bromodichloromethane	0.507	0.520	-2.6	101	0.00
48	T	Methyl methacrylate	0.397	0.413	-4.0	101	0.00
49	T	1,4-Dioxane	0.009	0.010	-11.1	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	S	Toluene-d8	1.231	1.177	4.4	100	0.00
51	T	4-Methyl-2-Pentanone	0.502	0.537	-7.0	104	0.00
52	CM	Toluene	0.939	0.957	-1.9#	105	0.00
53	T	t-1,3-Dichloropropene	0.558	0.582	-4.3	101	0.00
54	T	cis-1,3-Dichloropropene	0.612	0.640	-4.6	101	0.00
55	T	1,1,2-Trichloroethane	0.387	0.389	-0.5	100	0.00
56	T	Ethyl methacrylate	0.567	0.617	-8.8	103	0.00
57	T	1,3-Dichloropropane	0.659	0.662	-0.5	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.300	0.303	-1.0	99	0.00
59	T	2-Hexanone	0.382	0.419	-9.7	107	0.00
60	T	Dibromochloromethane	0.384	0.408	-6.2	103	0.00
61	T	1,2-Dibromoethane	0.404	0.408	-1.0	99	0.00
62	S	4-Bromofluorobenzene	0.471	0.460	2.3	102	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	T	Tetrachloroethene	0.377	0.395	-4.8	117	0.00
65	PM	Chlorobenzene	1.073	1.057	1.5	101	0.00
66	T	1,1,1,2-Tetrachloroethane	0.385	0.404	-4.9	105	0.00
67	C	Ethyl Benzene	1.875	1.933	-3.1#	106	0.00
68	T	m/p-Xylenes	0.700	0.732	-4.6	105	0.00
69	T	o-Xylene	0.674	0.699	-3.7	103	0.00
70	T	Styrene	1.139	1.213	-6.5	103	0.00
71	P	Bromoform	0.298	0.326	-9.4	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	3.609	3.829	-6.1	111	0.00
74	T	N-amyl acetate	1.455	1.519	-4.4	100	0.00
75	P	1,1,2,2-Tetrachloroethane	1.310	1.312	-0.2	102	0.00
76	T	1,2,3-Trichloropropane	1.232	1.256	-1.9	104	0.00
77	T	Bromobenzene	0.954	0.942	1.3	104	0.00
78	T	n-propylbenzene	4.159	4.387	-5.5	111	0.00
79	T	2-Chlorotoluene	2.593	2.635	-1.6	105	0.00
80	T	1,3,5-Trimethylbenzene	3.059	3.282	-7.3	110	0.00
81	T	trans-1,4-Dichloro-2-butene	0.415	0.450	-8.4	105	0.00
82	T	4-Chlorotoluene	3.029	3.081	-1.7	104	0.00
83	T	tert-Butylbenzene	2.935	3.127	-6.5	112	0.00
84	T	1,2,4-Trimethylbenzene	3.105	3.280	-5.6	105	0.00
85	T	sec-Butylbenzene	3.387	3.682	-8.7	118	0.00
86	T	p-Isopropyltoluene	3.124	3.409	-9.1	114	0.00
87	T	1,3-Dichlorobenzene	1.705	1.699	0.4	102	0.00
88	T	1,4-Dichlorobenzene	1.779	1.698	4.6	101	0.00
89	T	n-Butylbenzene	2.737	2.992	-9.3	117	0.00
90	T	Hexachloroethane	0.539	0.577	-7.1	115	0.00
91	T	1,2-Dichlorobenzene	1.697	1.701	-0.2	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.275	0.288	-4.7	102	0.00
93	T	1,2,4-Trichlorobenzene	1.091	1.174	-7.6	112	0.00
94	T	Hexachlorobutadiene	0.484	0.571	-18.0	151#	0.00
95	T	Naphthalene	3.456	3.853	-11.5	107	0.00
96	T	1,2,3-Trichlorobenzene	1.080	1.159	-7.3	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020423.D
Acq On : 29 Dec 2020 09:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 30 02:33:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 6

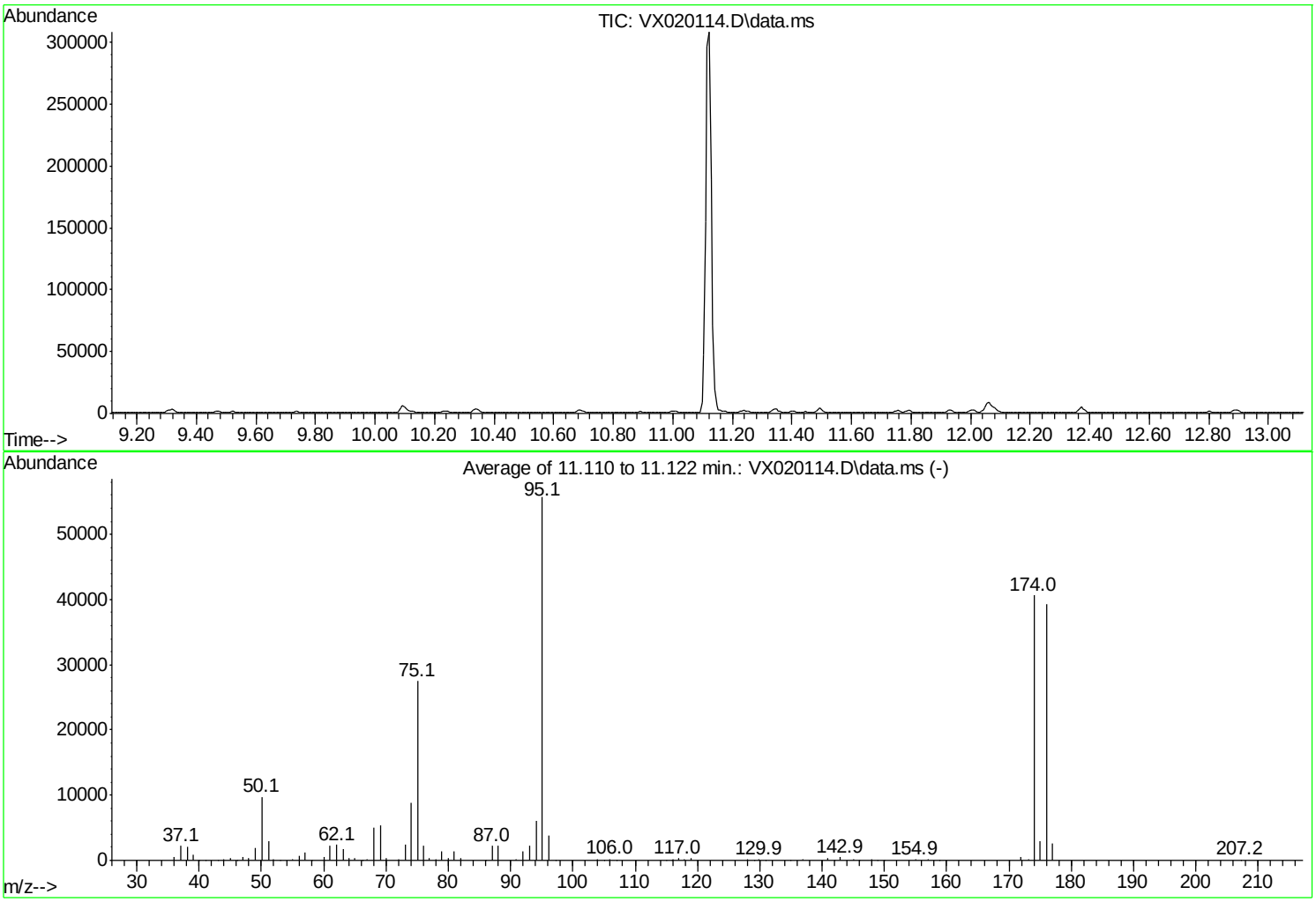
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121820\
Data File : VX020114.D
Acq On : 18 Dec 2020 08:40
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260
Last Update : Fri Dec 18 13:09:49 2020



AutoFind: Scans 1644, 1645, 1646; Background Corrected with Scan 1638

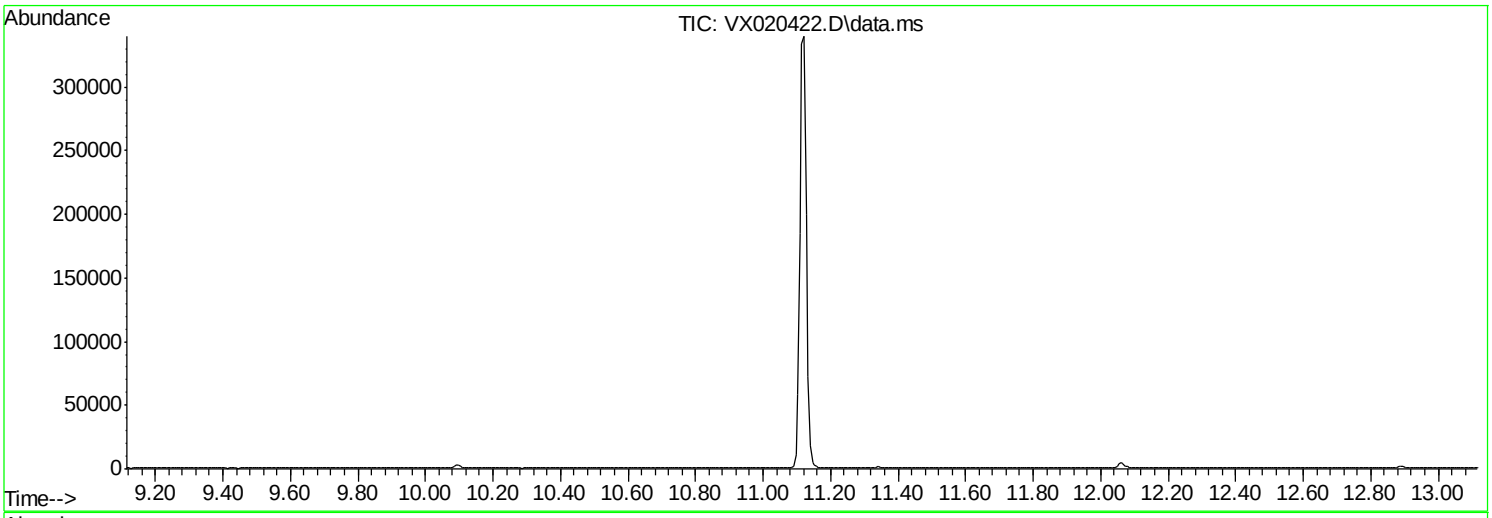
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	9742	PASS
75	95	30	60	49.3	27459	PASS
95	95	100	100	100.0	55704	PASS
96	95	5	9	6.8	3771	PASS
173	174	0.00	2	0.6	230	PASS
174	95	50	100	72.9	40600	PASS
175	174	5	9	7.4	3007	PASS
176	174	95	101	96.6	39235	PASS
177	176	5	9	6.5	2556	PASS

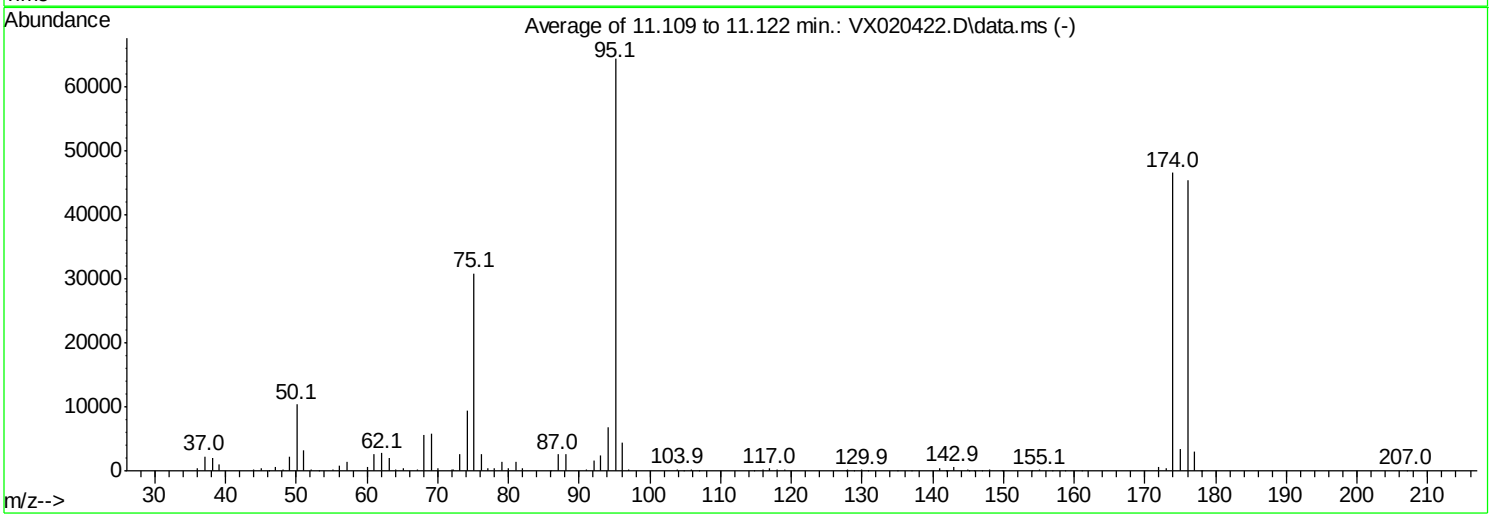
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020422.D
Acq On : 29 Dec 2020 08:47
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260
Last Update : Fri Dec 18 13:09:49 2020





AutoFind: Scans 1644, 1645, 1646; Background Corrected with Scan 1638

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	10312	PASS
75	95	30	60	47.9	30851	PASS
95	95	100	100	100.0	64403	PASS
96	95	5	9	6.8	4400	PASS
173	174	0.00	2	0.9	431	PASS
174	95	50	100	72.4	46600	PASS
175	174	5	9	7.2	3349	PASS
176	174	95	101	97.3	45325	PASS
177	176	5	9	6.6	3003	PASS

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VX1229WBL01	SDG No.:	L5236
Lab Sample ID:	VX1229WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020424.D	1		12/29/20 10:55	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VX1229WBL01	SDG No.:	L5236
Lab Sample ID:	VX1229WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020424.D	1		12/29/20 10:55	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.4		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	49.0		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	257000	5.629			
540-36-3	1,4-Difluorobenzene	418000	6.83			
3114-55-4	Chlorobenzene-d5	385000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	172000	12.061			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VX1229WBL01	SDG No.:	L5236
Lab Sample ID:	VX1229WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020424.D	1		12/29/20 10:55	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020424.D
Acq On : 29 Dec 2020 10:55
Operator : JC/MD
Sample : VX1229WBL01
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : VX1229WBL01

Quant Time: Dec 30 02:34:14 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	256653	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	418267	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	384736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	172394	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	152637	44.37	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 88.74%			
35) Dibromofluoromethane	5.464	113	128335	47.96	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 95.92%			
50) Toluene-d8	8.696	98	504167	48.95	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 97.90%			
62) 4-Bromofluorobenzene	11.122	95	182243	46.23	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 92.46%			

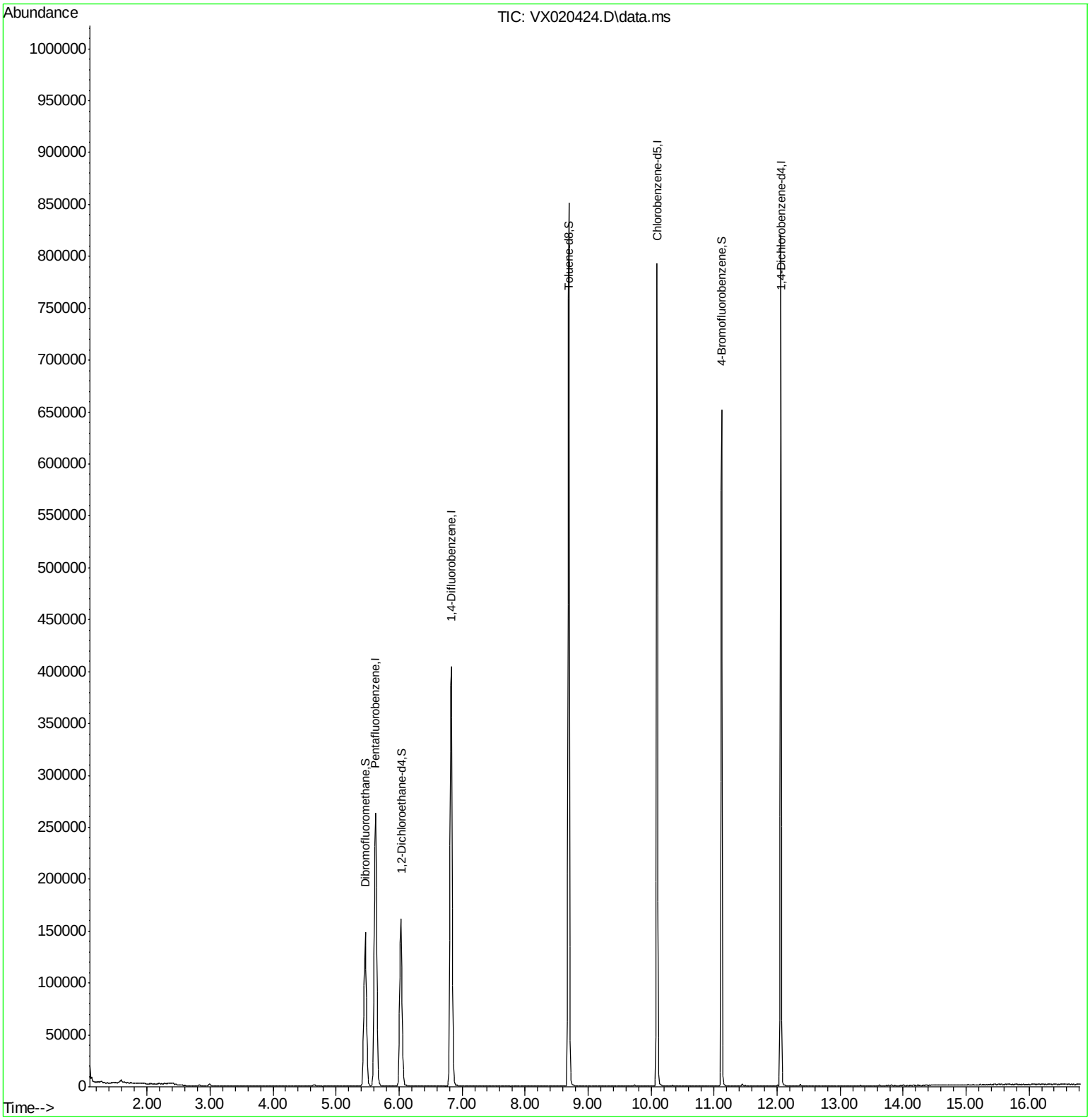
Target Compounds Qvalue

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

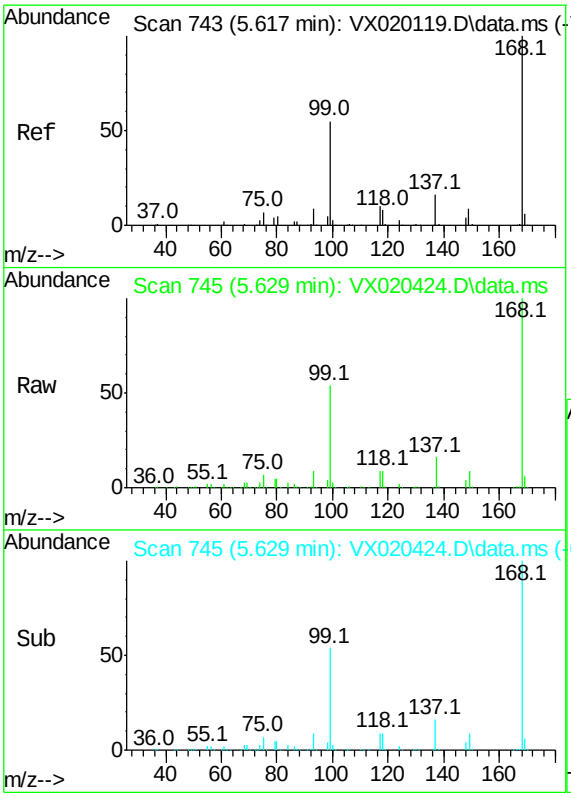
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020424.D
Acq On : 29 Dec 2020 10:55
Operator : JC/MD
Sample : VX1229WBL01
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

Quant Time: Dec 30 02:34:14 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration



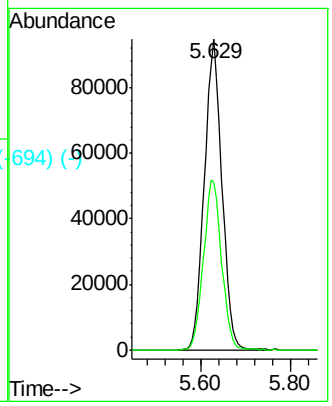
Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

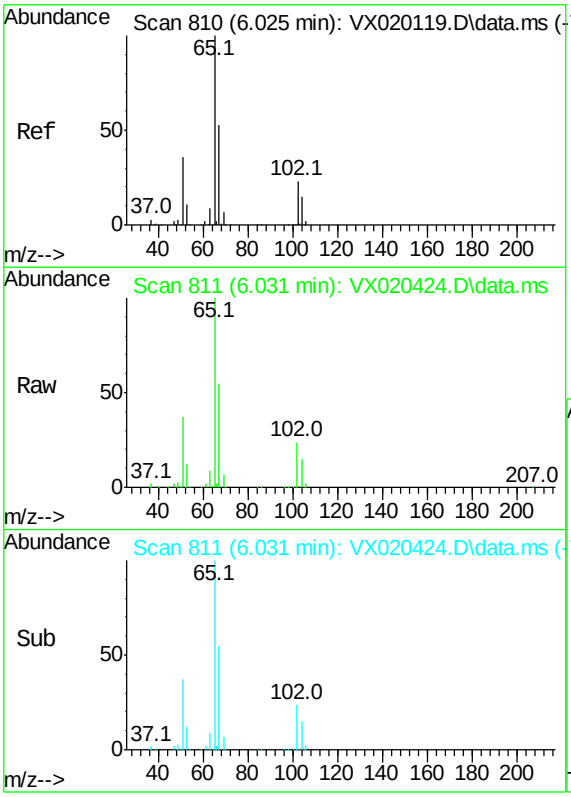


#1 (-)
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

Tgt Ion:168 Resp: 256653

Ion	Ratio	Lower	Upper
168	100		
99	53.7	45.8	68.6

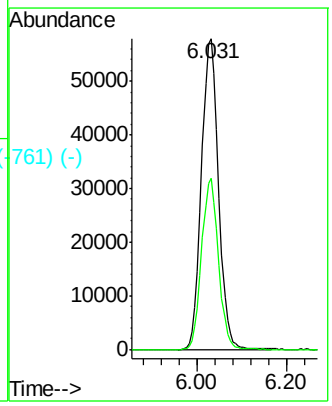




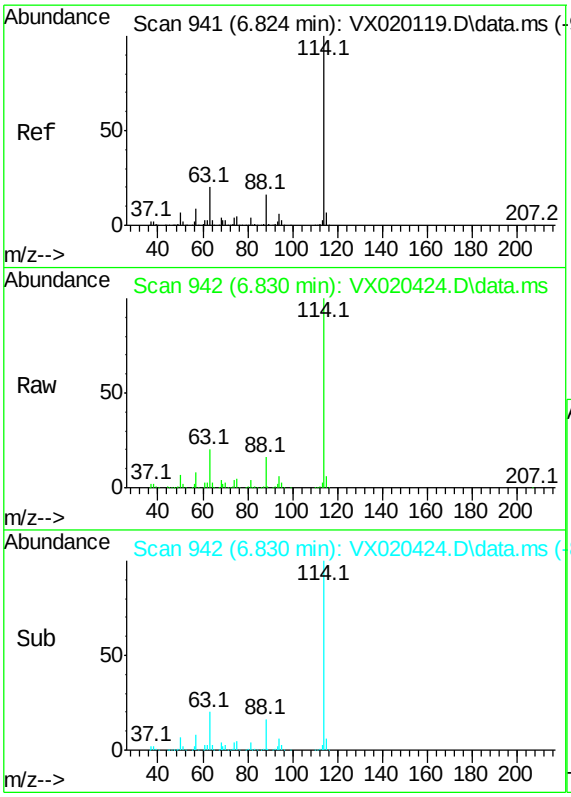
#33 (-)
1,2-Dichloroethane-d4
Concen: 44.37 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

Tgt Ion: 65 Resp: 152637

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.4



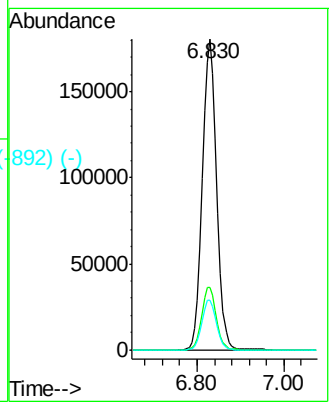
Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

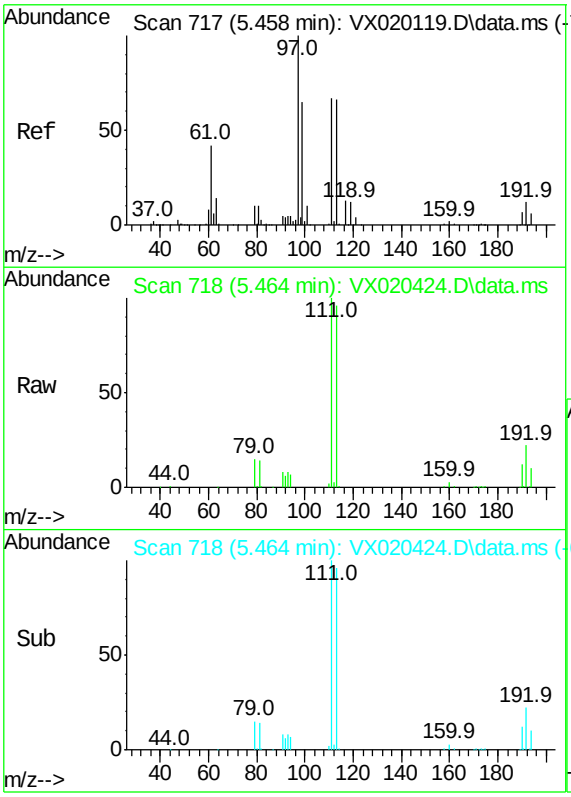


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

Tgt Ion:114 Resp: 418267

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.8
88	16.1	0.0	32.8

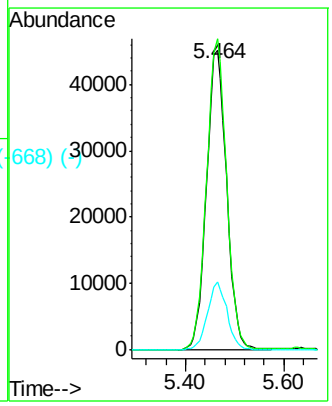




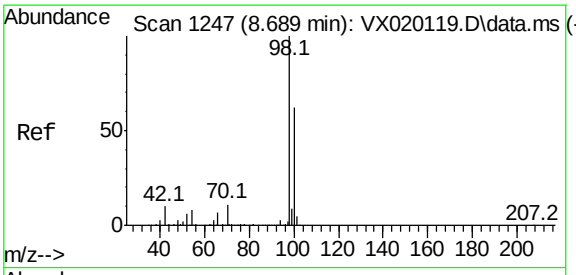
#35
Dibromofluoromethane
Concen: 47.96 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

Tgt Ion:113 Resp: 128335

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.9	122.9
192	21.7	16.7	25.1



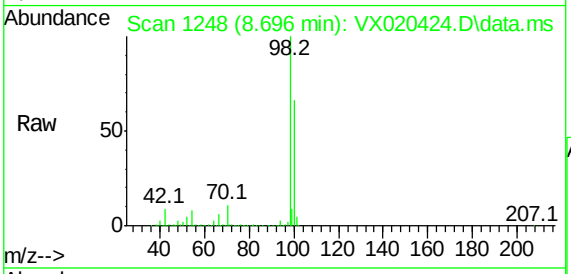
Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

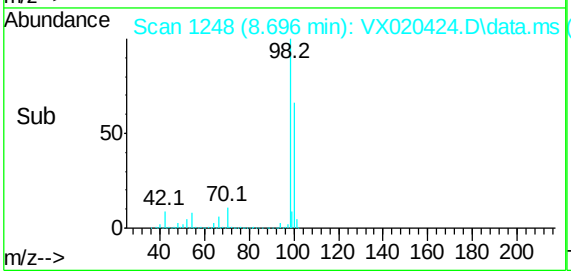


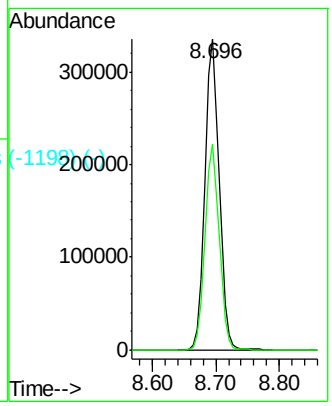
#50
Toluene-d8
Concen: 48.95 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

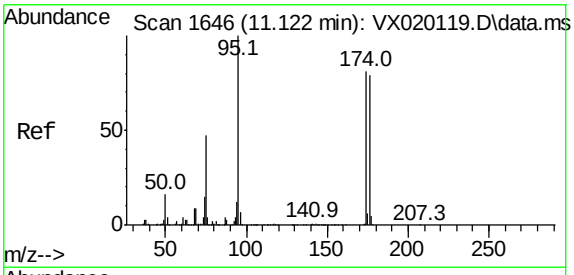
Tgt Ion: 98 Resp: 504167

Ion	Ratio	Lower	Upper
98	100		
100	66.2	51.9	77.9





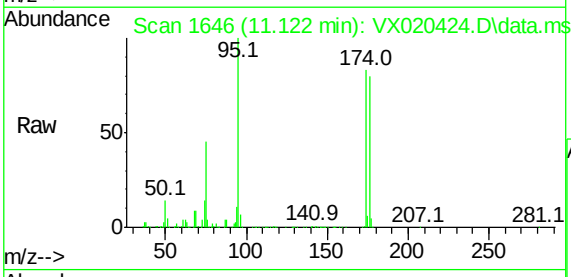


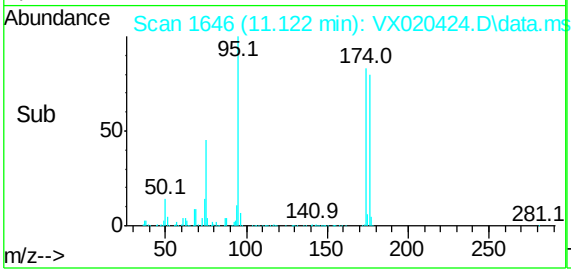


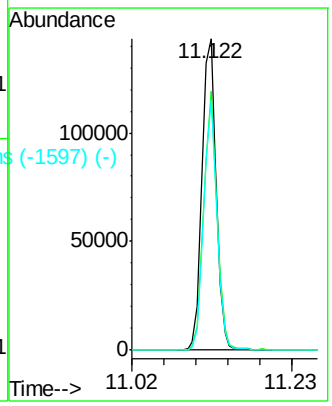
#68
4-Bromofluorobenzene
Concen: 46.23 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

Tgt Ion: 95 Resp: 182243

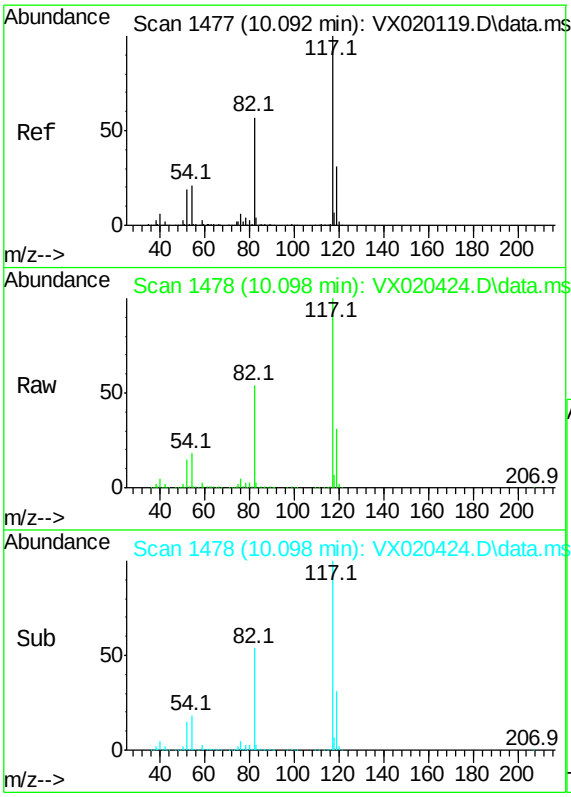
Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	154.6
176	75.8	0.0	155.8







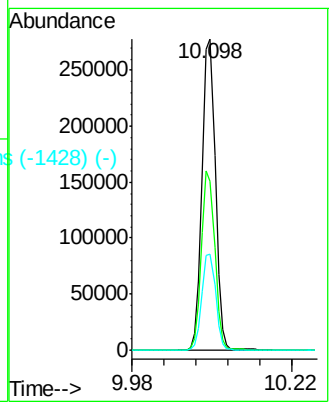
Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

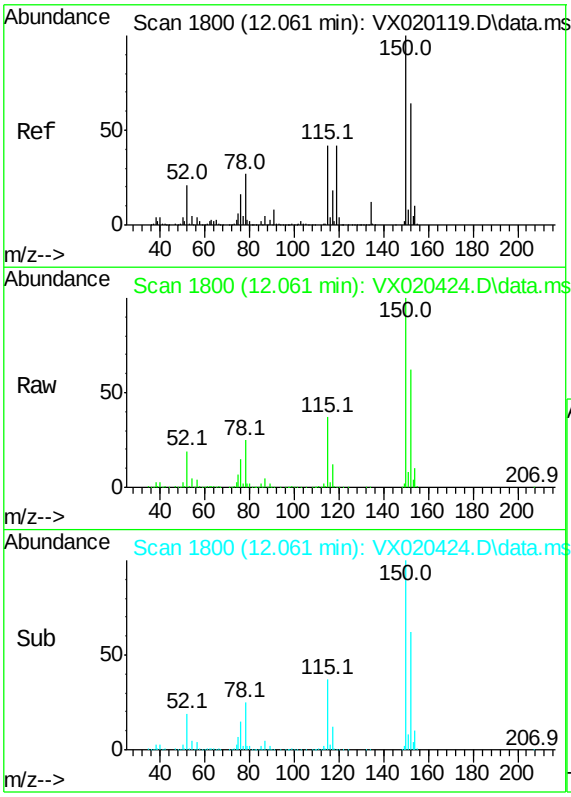


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

Tgt Ion:117 Resp: 384736

Ion	Ratio	Lower	Upper
117	100		
82	54.4	47.4	71.2
119	30.7	26.6	39.8

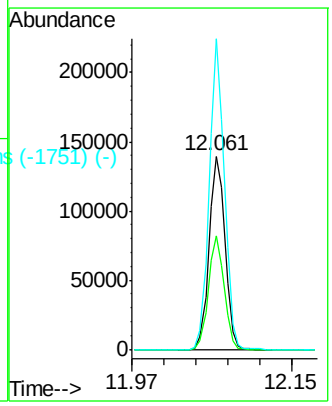




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020424.D
Acq: 29 Dec 2020 10:55

Tgt Ion:152 Resp: 172394

Ion	Ratio	Lower	Upper
152	100		
115	58.3	41.1	123.3
150	153.3	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020424.D
Acq On : 29 Dec 2020 10:55
Operator : JC/MD
Sample : VX1229WBL01
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Title : SW846 8260

Signal : TIC: VX020424.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	704	718	731	rBV	148465	417542	32.20%	6.195%
2	5.629	733	745	760	rVV	262972	730698	56.35%	10.841%
3	6.031	798	811	823	rBV	161557	425154	32.79%	6.308%
4	6.830	931	942	954	rBV	404576	946004	72.96%	14.035%
5	8.696	1240	1248	1258	rBV	851324	1296632	100.00%	19.237%
6	10.092	1471	1477	1493	rBV	793052	1112582	85.81%	16.506%
7	11.122	1640	1646	1659	rBV	651331	819198	63.18%	12.154%
8	12.061	1794	1800	1813	rBV	820167	992505	76.54%	14.725%

Sum of corrected areas: 6740315

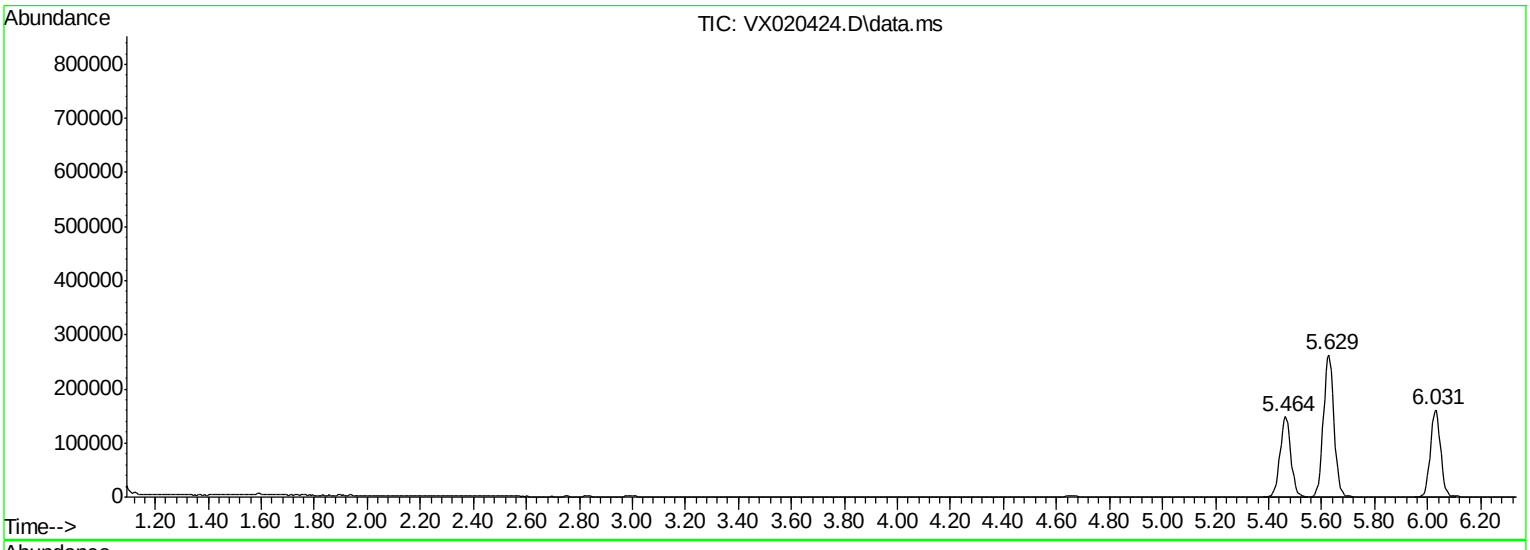
Sample Results: **VX020424.D**

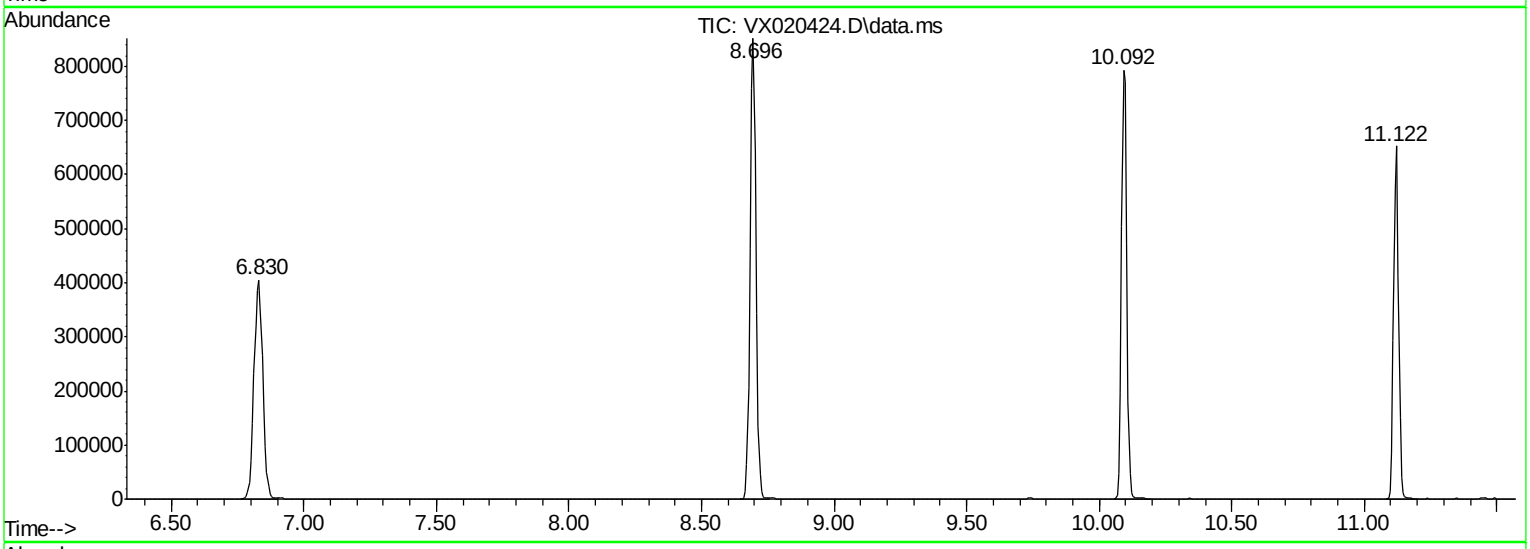
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020424.D
Acq On : 29 Dec 2020 10:55
Operator : JC/MD
Sample : VX1229WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

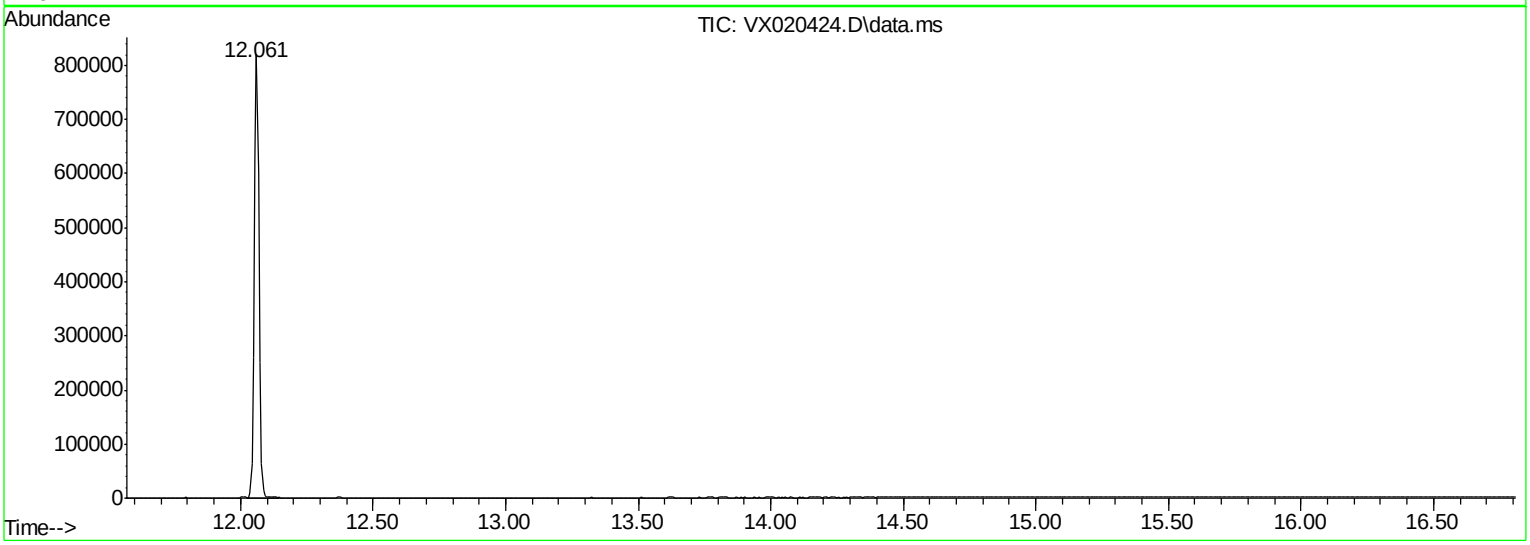
Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020424.D
Acq On : 29 Dec 2020 10:55
Operator : JC/MD
Sample : VX1229WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020424.D
Acq On : 29 Dec 2020 10:55
Operator : JC/MD
Sample : VX1229WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1229WBL01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VX1229WBS01	SDG No.:	L5236
Lab Sample ID:	VX1229WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020425.D	1		12/29/20 11:28	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.9		0.22	1.00	ug/L
74-87-3	Chloromethane	16.7		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	16.5		0.16	1.00	ug/L
74-83-9	Bromomethane	16.8		2.10	5.00	ug/L
75-00-3	Chloroethane	17.2		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.9		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.18	1.00	ug/L
67-64-1	Acetone	92.0		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	14.8		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.070	1.00	ug/L
79-20-9	Methyl Acetate	20.9		0.65	1.00	ug/L
75-09-2	Methylene Chloride	18.1		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.7		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.17	1.00	ug/L
110-82-7	Cyclohexane	18.4		1.20	5.00	ug/L
78-93-3	2-Butanone	100		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.30	1.00	ug/L
74-97-5	Bromochloromethane	17.2		0.31	1.00	ug/L
67-66-3	Chloroform	19.5		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.17	1.00	ug/L
71-43-2	Benzene	19.5		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.13	1.00	ug/L
79-01-6	Trichloroethene	19.0		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.3		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	20.3		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.85	5.00	ug/L
108-88-3	Toluene	19.9		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.1		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VX1229WBS01	SDG No.:	L5236
Lab Sample ID:	VX1229WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020425.D	1		12/29/20 11:28	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.5		0.12	1.00	ug/L
591-78-6	2-Hexanone	110		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	20.5		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	21.0		0.15	1.00	ug/L
108-90-7	Chlorobenzene	20.3		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	20.6		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	41.8		0.20	2.00	ug/L
95-47-6	o-Xylene	20.9		0.13	1.00	ug/L
100-42-5	Styrene	21.3		0.11	1.00	ug/L
75-25-2	Bromoform	21.8		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	21.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.5		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.8		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.2		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.5		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	236000	5.623			
540-36-3	1,4-Difluorobenzene	379000	6.824			
3114-55-4	Chlorobenzene-d5	350000	10.092			
3855-82-1	1,4-Dichlorobenzene-d4	176000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VX1229WBS01	SDG No.:	L5236
Lab Sample ID:	VX1229WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020425.D	1		12/29/20 11:28	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020425.D
Acq On : 29 Dec 2020 11:28
Operator : JC/MD
Sample : VX1229WBS01
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 02:34:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	236312	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.824	114	378916	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	350328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	175878	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	143140	45.19	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 90.38%			
35) Dibromofluoromethane	5.458	113	120809	49.84	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.68%			
50) Toluene-d8	8.695	98	461876	49.50	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 99.00%			
62) 4-Bromofluorobenzene	11.122	95	181205	50.74	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 101.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	43305	16.87	ug/l	97
3) Chloromethane	1.313	50	49664	16.69	ug/l	98
4) Vinyl Chloride	1.392	62	53597	16.53	ug/l	99
5) Bromomethane	1.617	94	17411	16.76	ug/l	95
6) Chloroethane	1.697	64	34749	17.21	ug/l	100
7) Trichlorofluoromethane	1.910	101	74724	17.92	ug/l	96
8) Diethyl Ether	2.166	74	32091	17.69	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.361	101	43537	18.45	ug/l	99
10) Methyl Iodide	2.483	142	45500	16.66	ug/l	98
11) Tert butyl alcohol	3.020	59	71350	100.59	ug/l	99
12) 1,1-Dichloroethene	2.349	96	42454	17.59	ug/l	97
13) Acrolein	2.270	56	40879	92.23	ug/l	99
14) Allyl chloride	2.703	41	79672	18.60	ug/l	93
15) Acrylonitrile	3.111	53	167719	102.77	ug/l	100
16) Acetone	2.416	43	132873	91.99	ug/l	97
17) Carbon Disulfide	2.544	76	105612	14.81	ug/l	100
18) Methyl Acetate	2.745	43	67303	20.89	ug/l	97
19) Methyl tert-butyl Ether	3.166	73	175456	19.42	ug/l	96
20) Methylene Chloride	2.831	84	58866	18.08	ug/l	98
21) trans-1,2-Dichloroethene	3.135	96	51709	17.65	ug/l	98
22) Diisopropyl ether	3.824	45	174781	19.99	ug/l	91
23) Vinyl Acetate	3.782	43	729336	97.86	ug/l	98
24) 1,1-Dichloroethane	3.666	63	99255	19.27	ug/l	99
25) 2-Butanone	4.629	43	211216	100.47	ug/l	99
26) 2,2-Dichloropropane	4.544	77	80355	18.91	ug/l	100
27) cis-1,2-Dichloroethene	4.556	96	61804	18.69	ug/l	99
28) Bromochloromethane	4.971	49	39416	17.19	ug/l	99
29) Tetrahydrofuran	5.086	42	134414	101.63	ug/l	97
30) Chloroform	5.166	83	102018	19.46	ug/l	97
31) Cyclohexane	5.537	56	80314	18.39	ug/l	95
32) 1,1,1-Trichloroethane	5.458	97	83867	19.18	ug/l	99
36) 1,1-Dichloropropene	5.763	75	71180	19.01	ug/l	99
37) Ethyl Acetate	4.788	43	79803	20.51	ug/l	100
38) Carbon Tetrachloride	5.745	117	71750	20.14	ug/l	99
39) Methylcyclohexane	7.433	83	80693	18.67	ug/l	95
40) Benzene	6.104	78	227539	19.52	ug/l	99
41) Methacrylonitrile	4.995	41	45015	21.71	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020425.D
Acq On : 29 Dec 2020 11:28
Operator : JC/MD
Sample : VX1229WBS01
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 02:34:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,2-Dichloroethane	6.153	62	75674	18.92 ug/l	99
43) Isopropyl Acetate	6.403	43	124696	20.30 ug/l	98
44) Trichloroethene	7.184	130	57252	19.00 ug/l	96
45) 1,2-Dichloropropane	7.488	63	59739	20.28 ug/l	99
46) Dibromomethane	7.635	93	38198	18.95 ug/l	99
47) Bromodichloromethane	7.872	83	77968	20.29 ug/l	98
48) Methyl methacrylate	7.744	41	61066	20.28 ug/l	95
49) 1,4-Dioxane	7.714	88	30730	436.03 ug/l	98
51) 4-Methyl-2-Pentanone	8.616	43	410426	107.90 ug/l	100
52) Toluene	8.762	92	141668	19.91 ug/l	99
53) t-1,3-Dichloropropene	9.019	75	85077	20.13 ug/l	100
54) cis-1,3-Dichloropropene	8.409	75	93355	20.12 ug/l	96
55) 1,1,2-Trichloroethane	9.195	97	60158	20.50 ug/l	100
56) Ethyl methacrylate	9.159	69	89822	20.92 ug/l	97
57) 1,3-Dichloropropane	9.348	76	101518	20.33 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.287	63	195275	85.97 ug/l	99
59) 2-Hexanone	9.470	43	314036	108.34 ug/l	100
60) Dibromochloromethane	9.561	129	59782	20.53 ug/l	97
61) 1,2-Dibromoethane	9.653	107	61715	20.14 ug/l	98
64) Tetrachloroethene	9.311	164	55437	21.00 ug/l	96
65) Chlorobenzene	10.116	112	152733	20.32 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.201	131	57253	21.23 ug/l	99
67) Ethyl Benzene	10.232	91	270566	20.59 ug/l	99
68) m/p-Xylenes	10.341	106	205165	41.83 ug/l	99
69) o-Xylene	10.683	106	98800	20.93 ug/l	99
70) Styrene	10.695	104	170138	21.32 ug/l	100
71) Bromoform	10.835	173	45510	21.79 ug/l	99
73) Isopropylbenzene	11.000	105	266809	21.02 ug/l	99
74) N-amyl acetate	10.878	43	106119	20.74 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.250	83	94616	20.53 ug/l	99
76) 1,2,3-Trichloropropane	11.280	75	90471m	20.88 ug/l	
77) Bromobenzene	11.238	156	65990	19.67 ug/l	96
78) n-propylbenzene	11.341	91	303988	20.78 ug/l	100
79) 2-Chlorotoluene	11.402	91	189094	20.73 ug/l	100
80) 1,3,5-Trimethylbenzene	11.488	105	229458	21.33 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.055	75	29426	20.15 ug/l	98
82) 4-Chlorotoluene	11.494	91	220075	20.66 ug/l	99
83) tert-Butylbenzene	11.756	119	218772	21.19 ug/l	98
84) 1,2,4-Trimethylbenzene	11.792	105	234104	21.44 ug/l	100
85) sec-Butylbenzene	11.927	105	256810	21.55 ug/l	99
86) p-Isopropyltoluene	12.049	119	234973	21.38 ug/l	99
87) 1,3-Dichlorobenzene	12.006	146	122420	20.41 ug/l	99
88) 1,4-Dichlorobenzene	12.079	146	123609	19.75 ug/l	98
89) n-Butylbenzene	12.372	91	199856	20.76 ug/l	100
90) Hexachloroethane	12.579	117	39077	20.61 ug/l	96
91) 1,2-Dichlorobenzene	12.372	146	119398	20.00 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	19038	19.68 ug/l	98
93) 1,2,4-Trichlorobenzene	13.627	180	75956	19.79 ug/l	100
94) Hexachlorobutadiene	13.762	225	36627	24.17 ug/l	100
95) Naphthalene	13.816	128	249967	20.56 ug/l	100
96) 1,2,3-Trichlorobenzene	13.999	180	78252	20.61 ug/l	98

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

Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

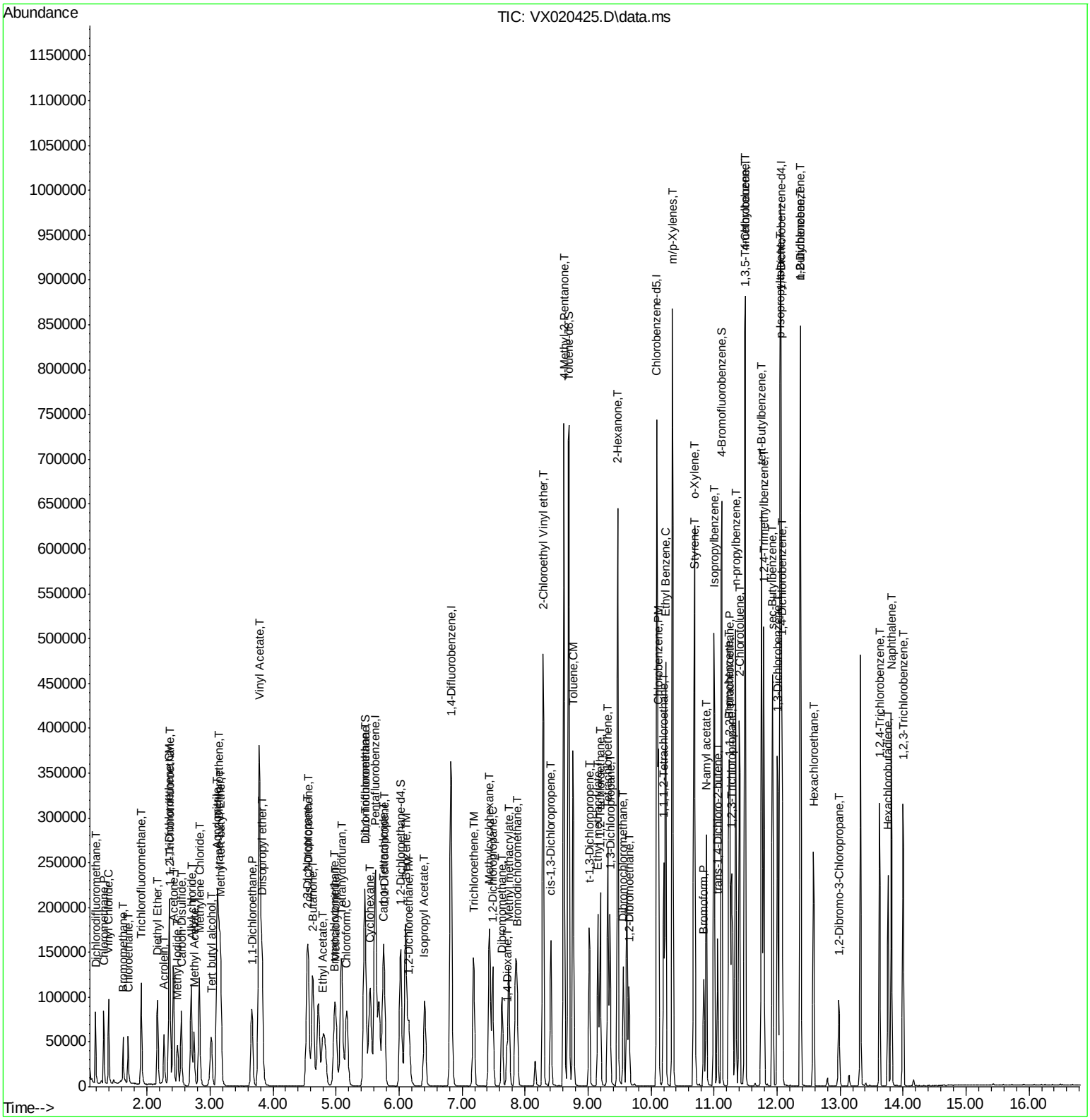
Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020425.D
Acq On : 29 Dec 2020 11:28
Operator : JC/MD
Sample : VX1229WBS01
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 02:34:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

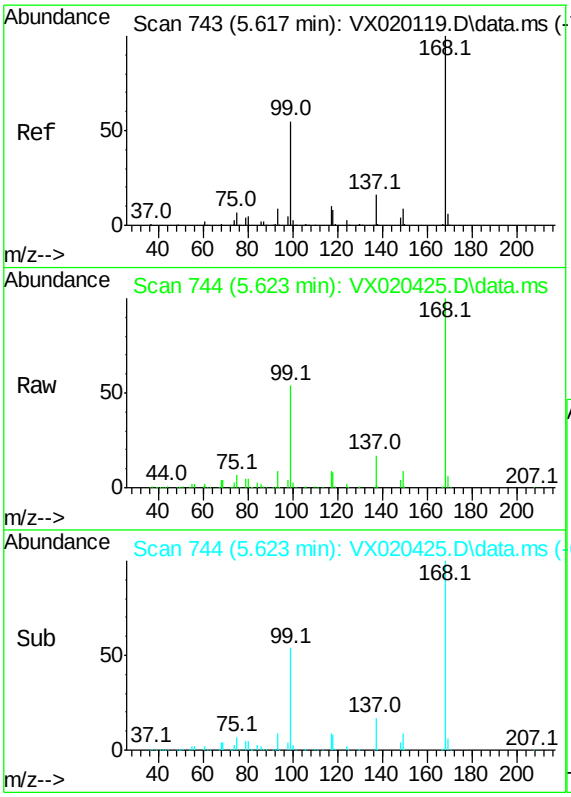
Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

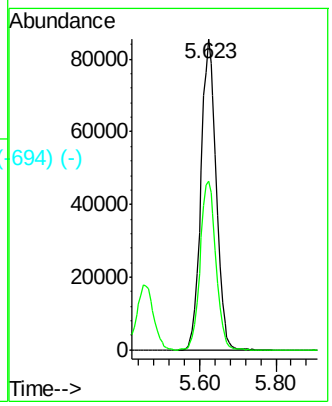
Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

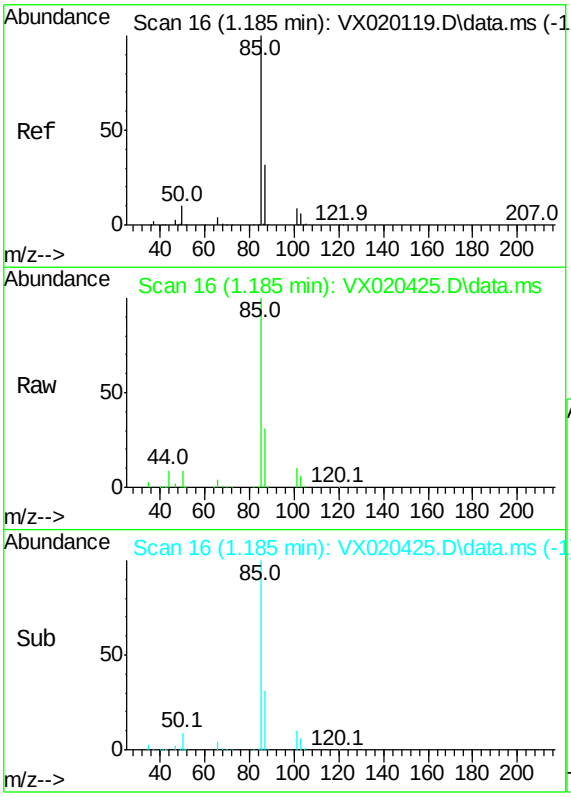


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 744
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:168 Resp: 236312

Ion	Ratio	Lower	Upper
168	100		
99	54.3	45.8	68.6

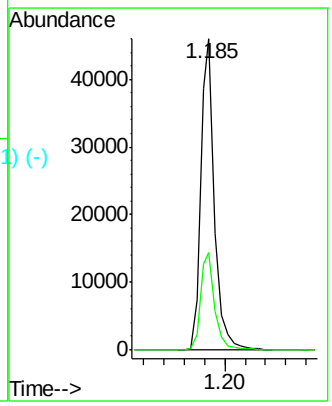




#2
Dichlorodifluoromethane
Concen: 16.87 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

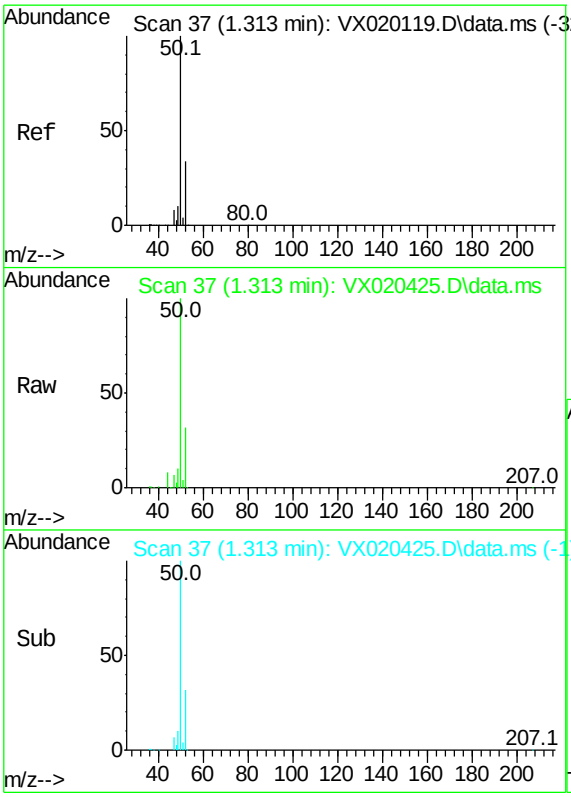
Tgt Ion: 85 Resp: 43305

Ion	Ratio	Lower	Upper
85	100		
87	31.2	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

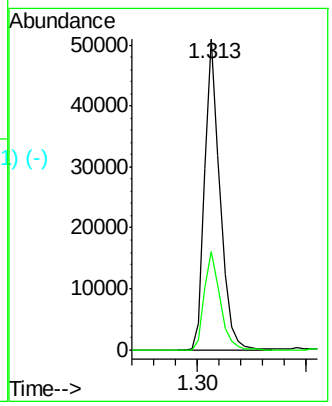
Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

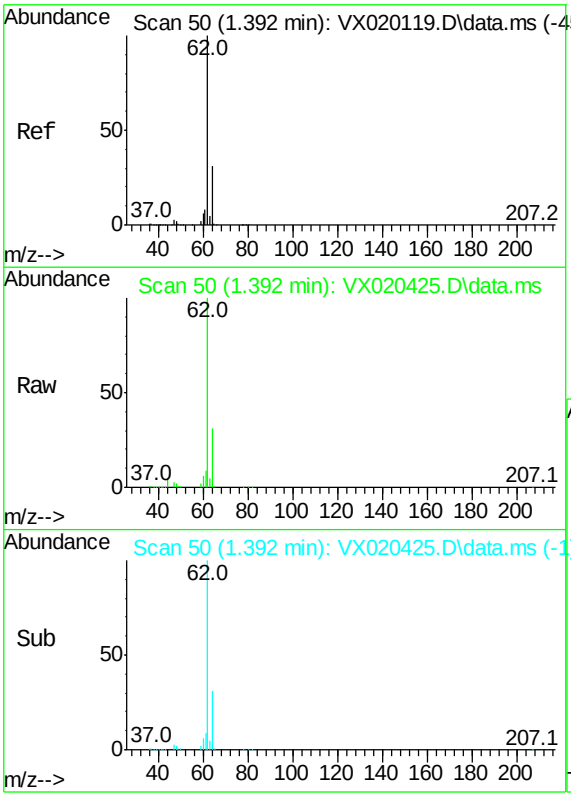


#3
Chloromethane
Concen: 16.69 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 50 Resp: 49664

Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.4	39.6

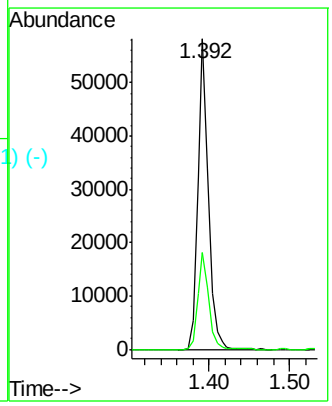




#4
Vinyl Chloride
Concen: 16.53 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

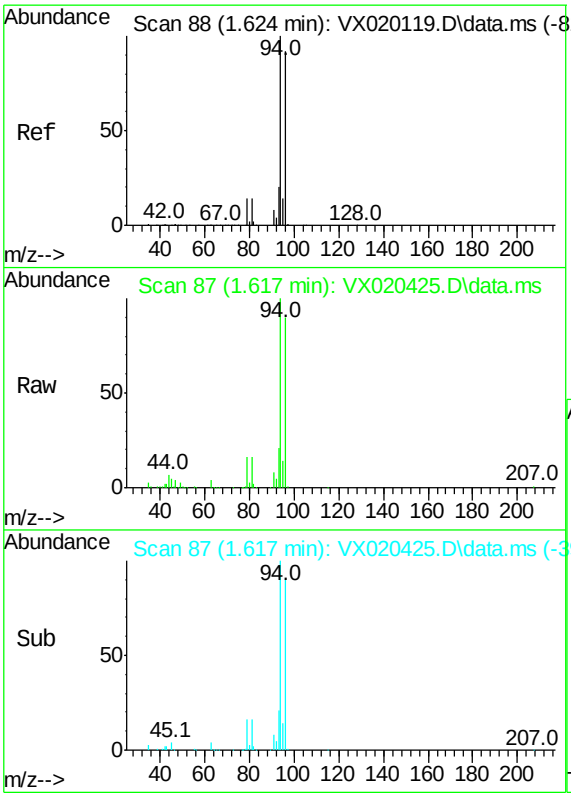
Tgt Ion: 62 Resp: 53597

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

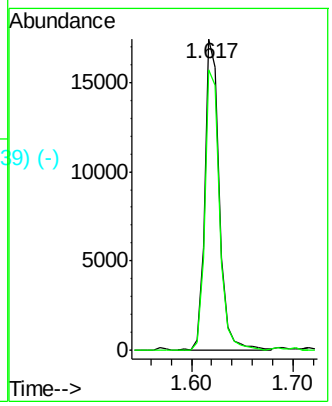
Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

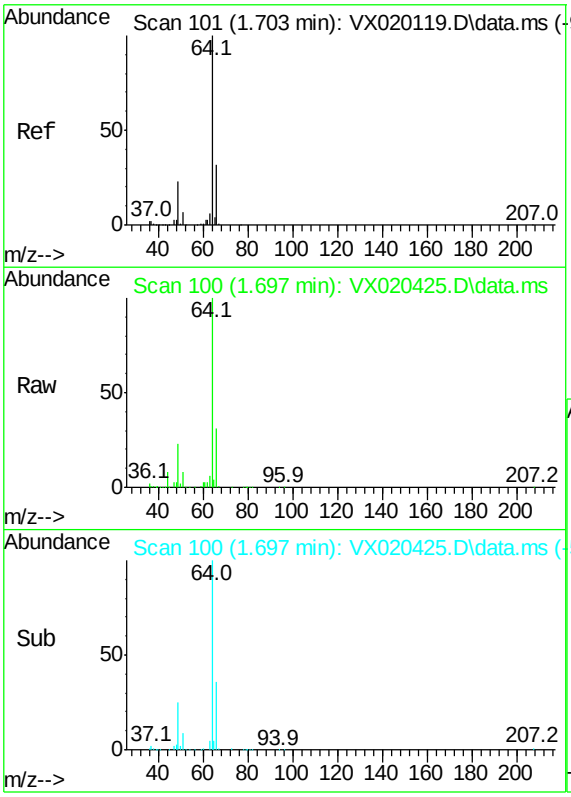


#5
Bromomethane
Concen: 16.76 ug/l
RT: 1.617 min Scan# 87
Delta R.T. -0.007 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 94 Resp: 17411

Ion	Ratio	Lower	Upper
94	100		
96	90.1	76.4	114.6

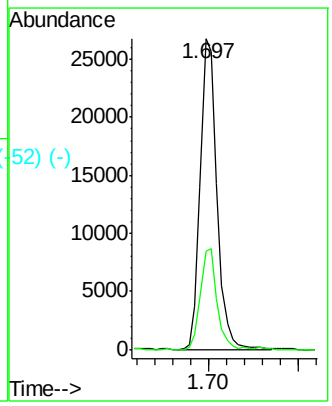




#6
Chloroethane
Concen: 17.21 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 64 Resp: 34749

Ion	Ratio	Lower	Upper
64	100		
66	31.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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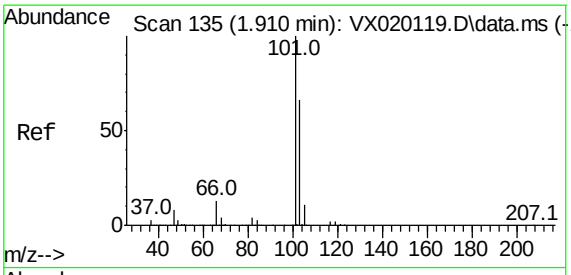
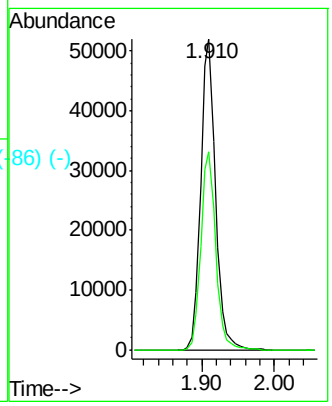
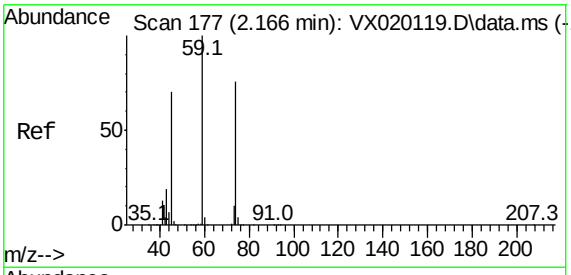


#7
Trichlorofluoromethane
Concen: 17.92 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:101 Resp: 74724

Ion	Ratio	Lower	Upper
101	100		
103	63.6	53.2	79.8

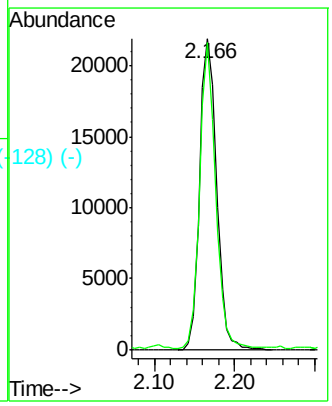




#8
Diethyl Ether
Concen: 17.69 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 74 Resp: 32091

Ion	Ratio	Lower	Upper
74	100		
45	92.7	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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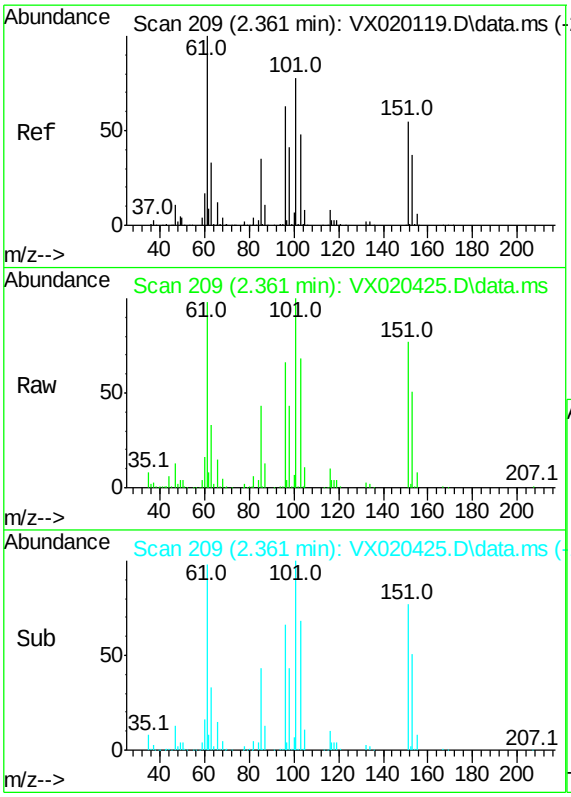
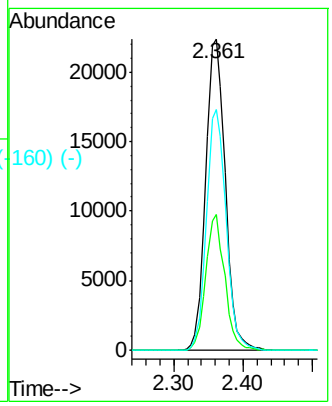
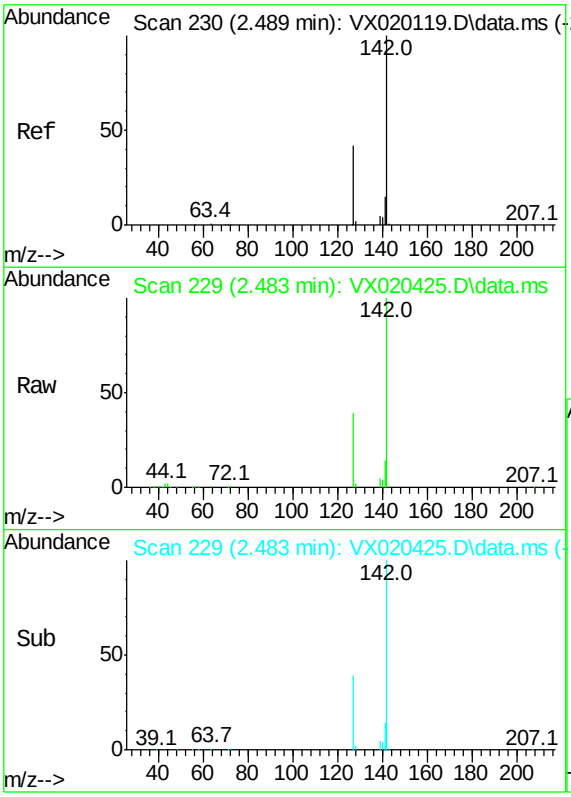


#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.45 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:101 Resp: 43537

Ion	Ratio	Lower	Upper
101	100		
85	42.0	34.9	52.3
151	77.2	61.4	92.2

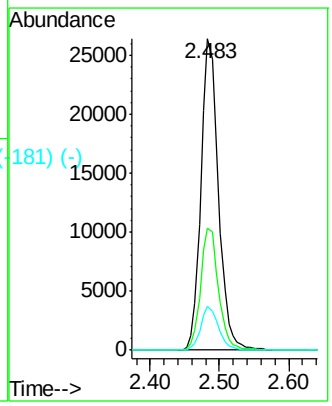




#10
Methyl Iodide
Concen: 16.66 ug/l
RT: 2.483 min Scan# 229
Delta R.T. -0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:142 Resp: 45500

Ion	Ratio	Lower	Upper
142	100		
127	39.9	33.3	49.9
141	13.7	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
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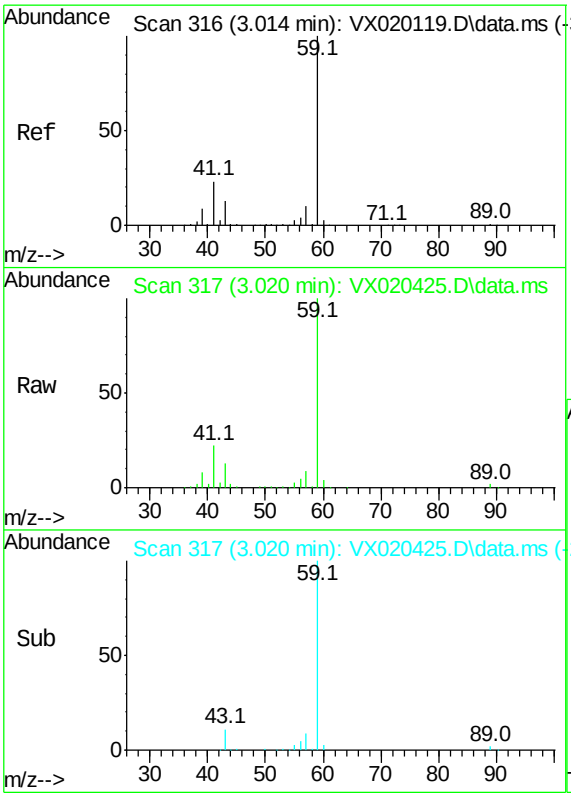
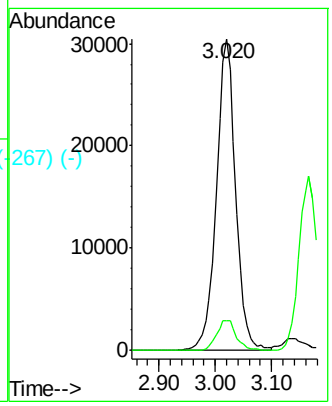
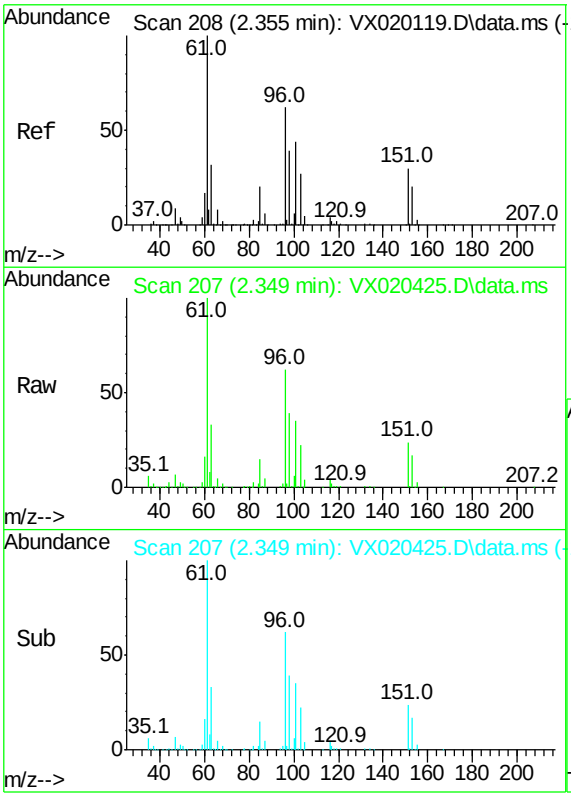


#11
Tert butyl alcohol
Concen: 100.59 ug/l
RT: 3.020 min Scan# 317
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 59 Resp: 71350

Ion	Ratio	Lower	Upper
59	100		
57	9.5	7.8	11.8

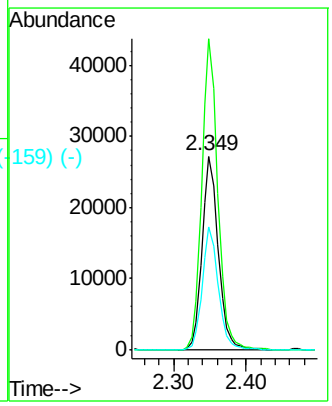




#12
1,1-Dichloroethene
Concen: 17.59 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 96 Resp: 42454

Ion	Ratio	Lower	Upper
96	100		
61	160.7	124.6	187.0
98	63.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
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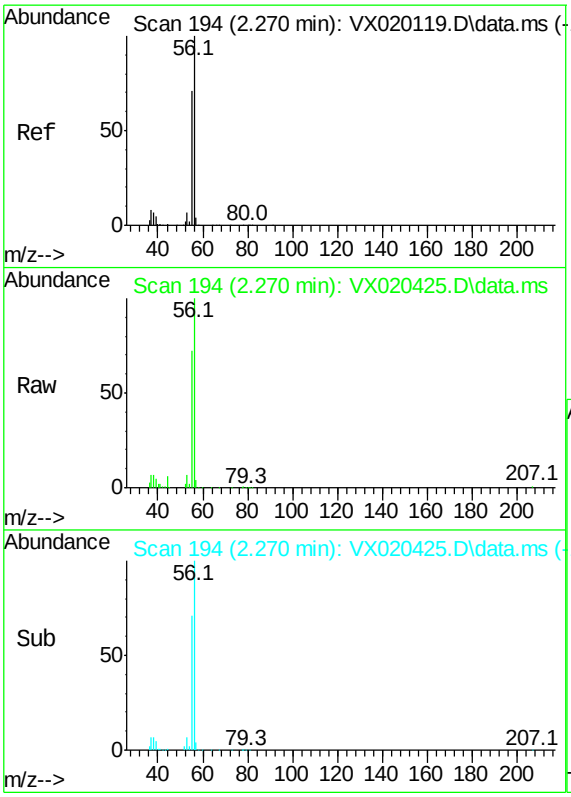
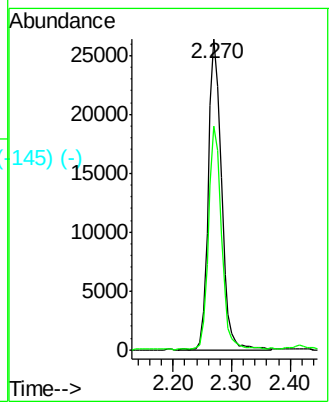
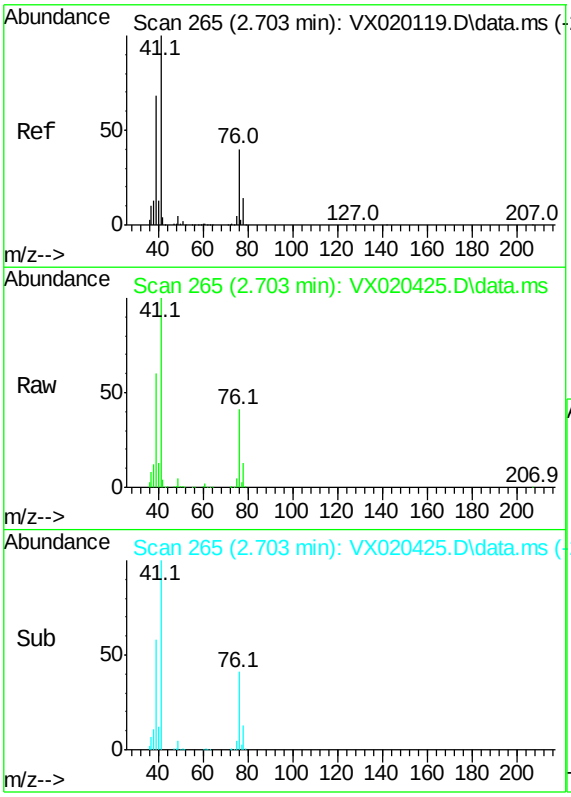


#13
Acrolein
Concen: 92.23 ug/l
RT: 2.270 min Scan# 194
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 56 Resp: 40879

Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.4	84.6

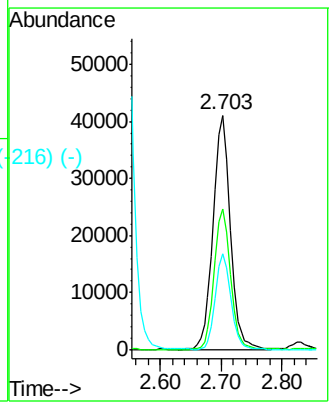




#14
Allyl chloride
Concen: 18.60 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 41 Resp: 79672

Ion	Ratio	Lower	Upper
41	100		
39	57.0	51.6	77.4
76	36.7	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
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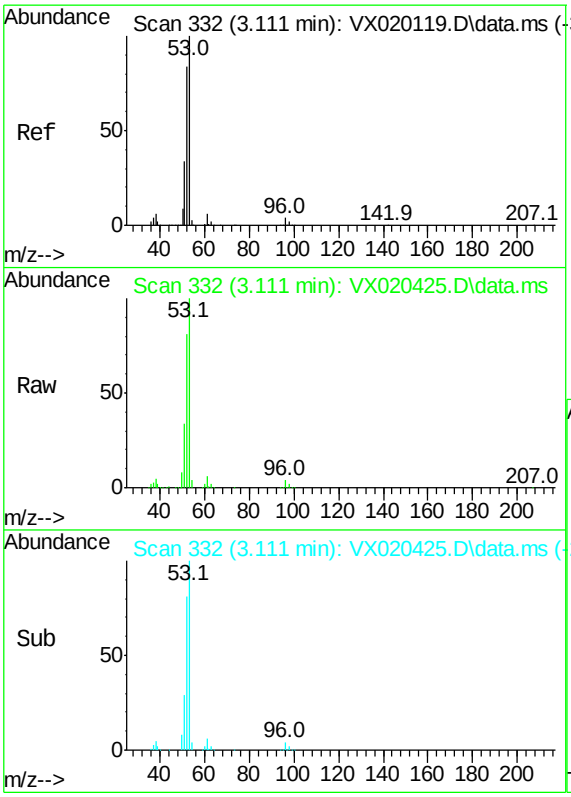
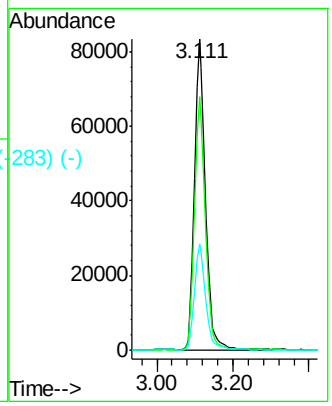
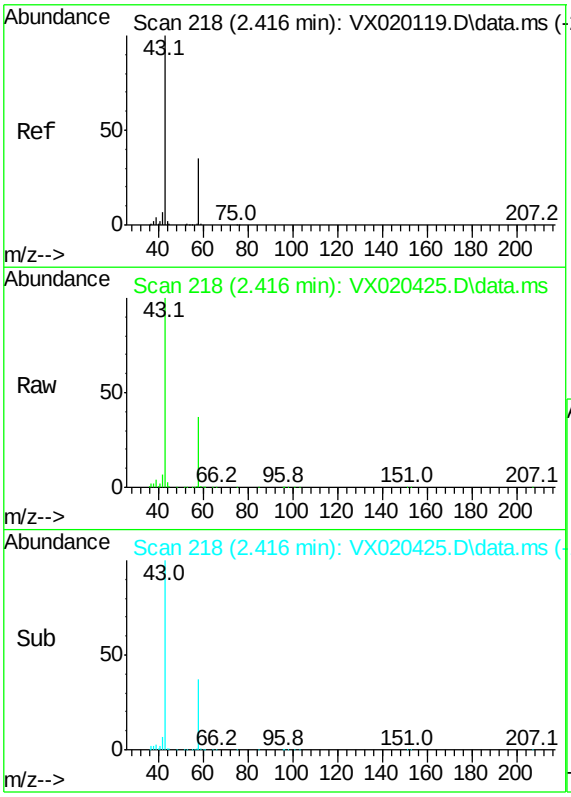


#15
Acrylonitrile
Concen: 102.77 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 53 Resp: 167719

Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.3	97.9
51	34.9	28.2	42.2

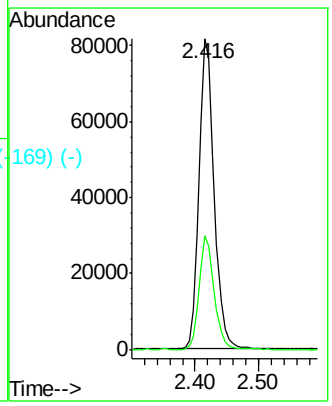




#16
Acetone
Concen: 91.99 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 132873

Ion	Ratio	Lower	Upper
43	100		
58	36.7	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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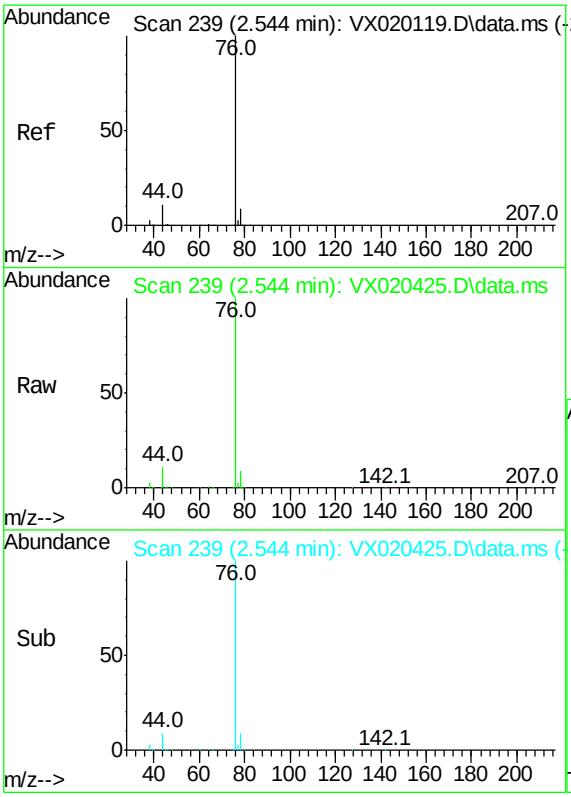
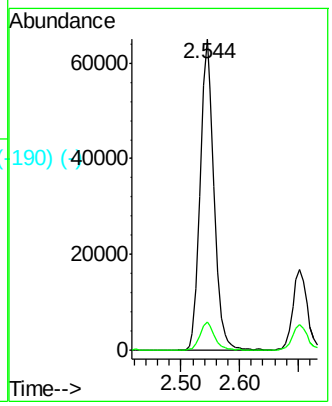
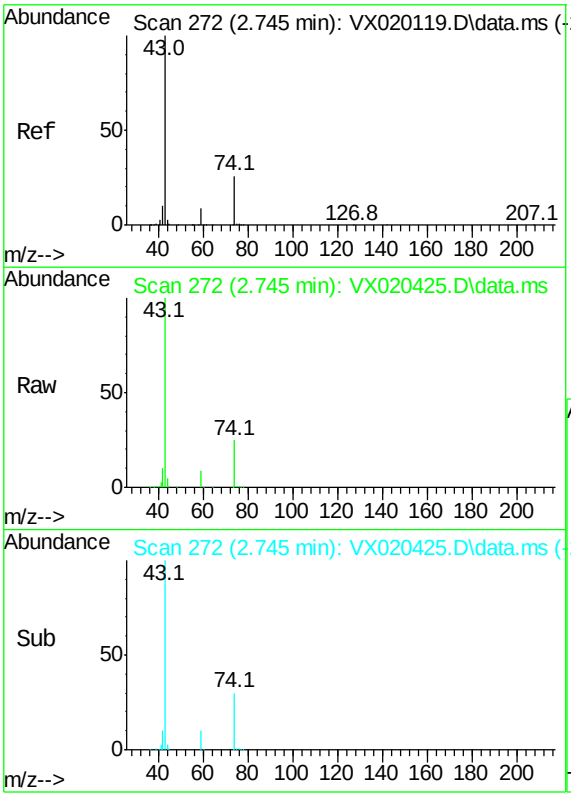


#17
Carbon Disulfide
Concen: 14.81 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 76 Resp: 105612

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

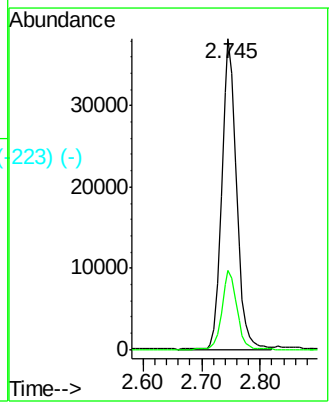




#18
Methyl Acetate
Concen: 20.89 ug/l
RT: 2.745 min Scan# 272
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 67303

Ion	Ratio	Lower	Upper
43	100		
74	25.8	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
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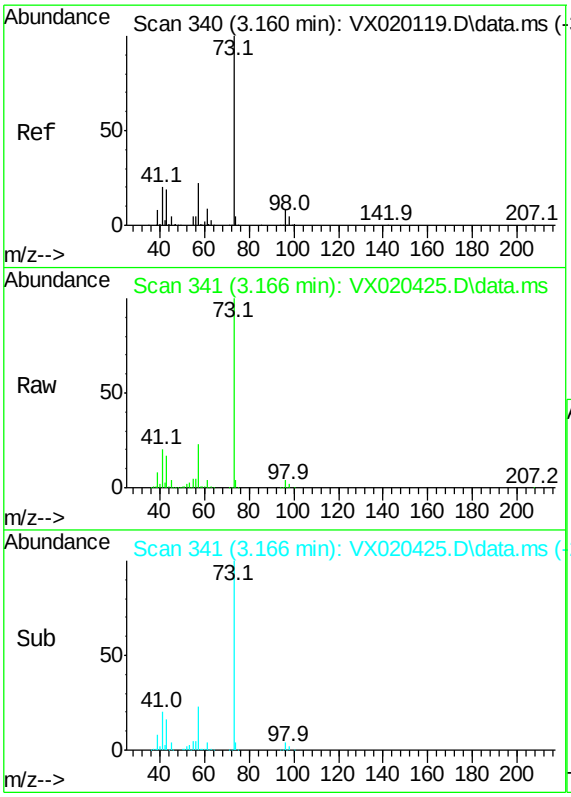
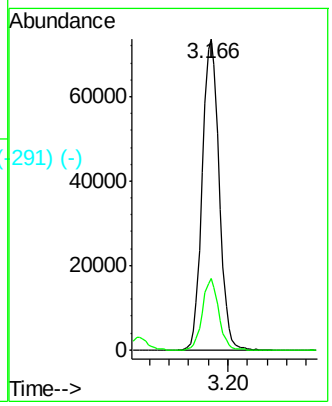
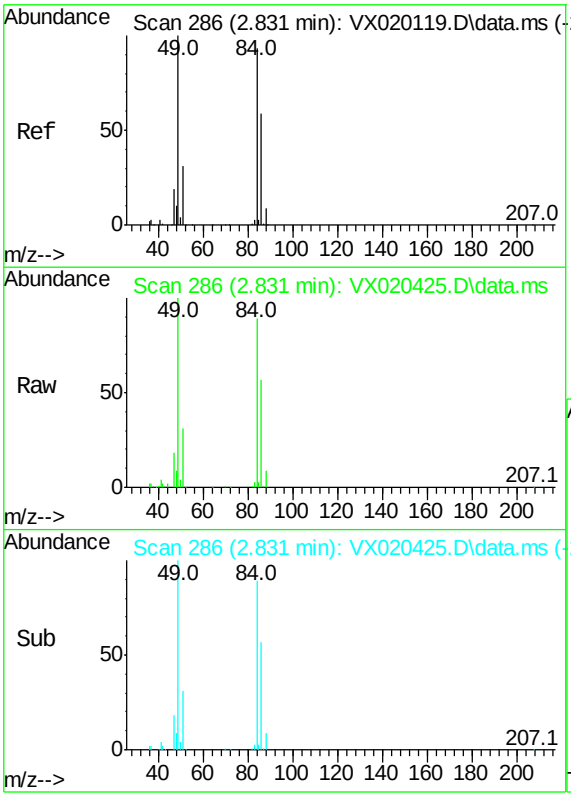


#19
Methyl tert-butyl Ether
Concen: 19.42 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 73 Resp: 175456

Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.1	25.7

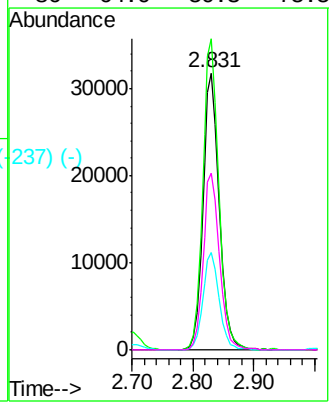




#20
Methylene Chloride
Concen: 18.08 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 84 Resp: 58866

Ion	Ratio	Lower	Upper
84	100		
49	112.4	88.6	132.8
51	35.0	27.0	40.6
86	64.0	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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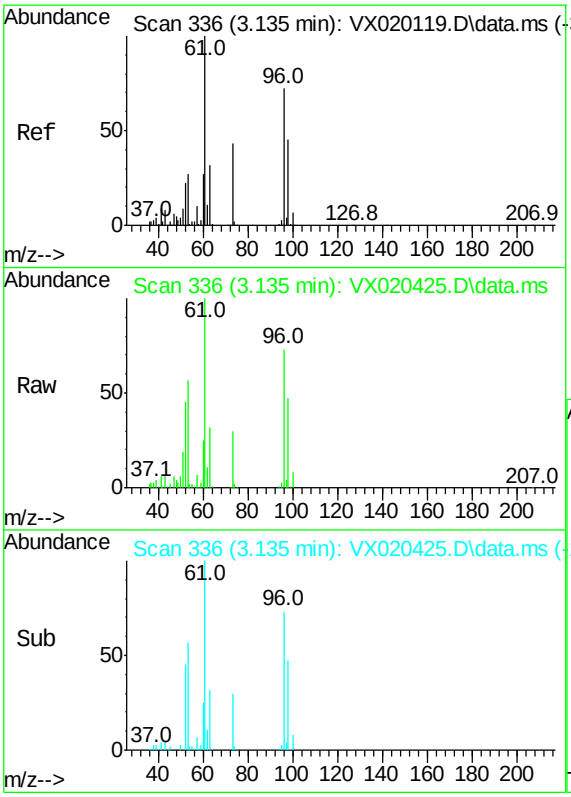
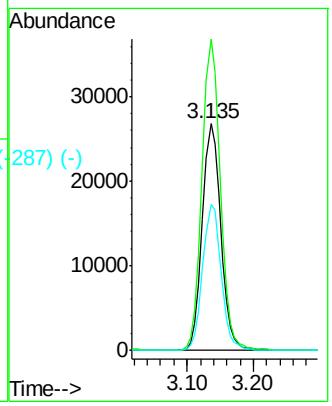
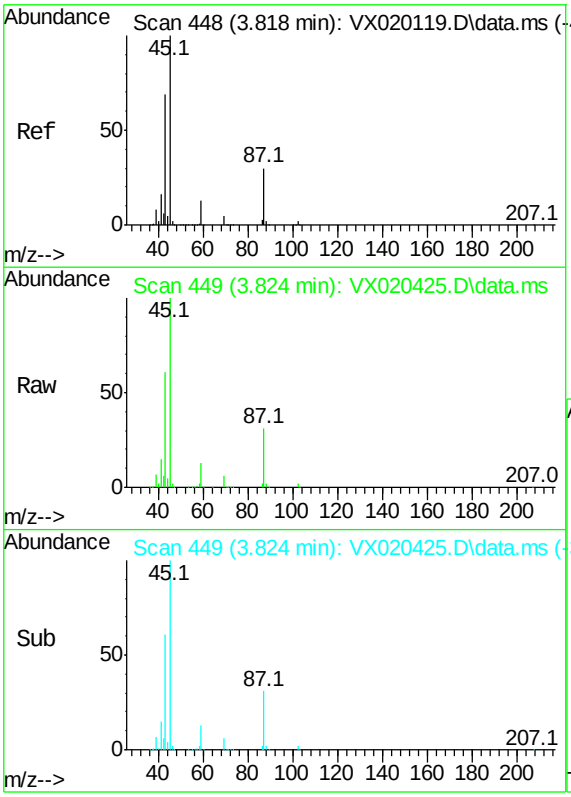


#21
trans-1,2-Dichloroethene
Concen: 17.65 ug/l
RT: 3.135 min Scan# 336
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 96 Resp: 51709

Ion	Ratio	Lower	Upper
96	100		
61	137.4	107.7	161.5
98	64.5	50.4	75.6

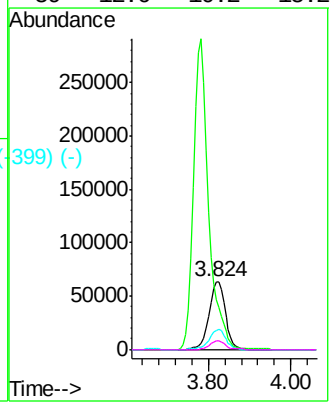




#22
Diisopropyl ether
Concen: 19.99 ug/l
RT: 3.824 min Scan# 449
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 45 Resp: 174781

Ion	Ratio	Lower	Upper
45	100		
43	60.6	58.0	87.0
87	30.6	25.4	38.0
59	12.6	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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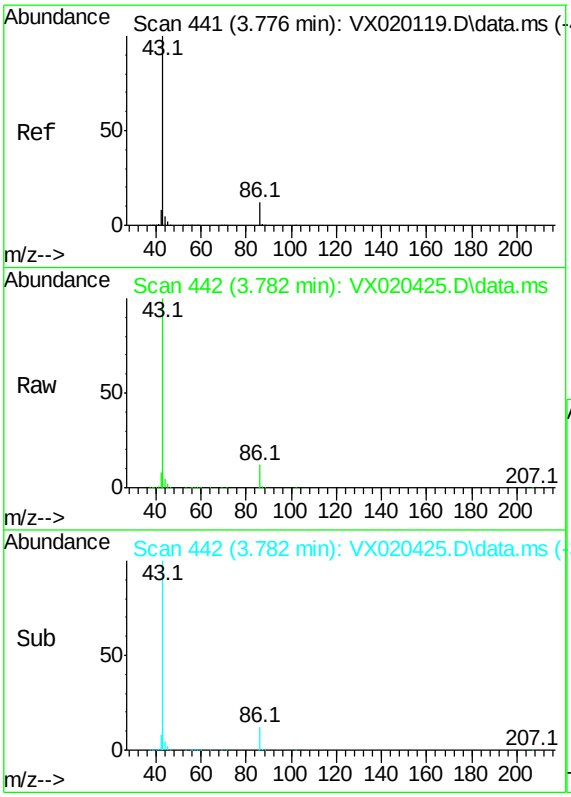
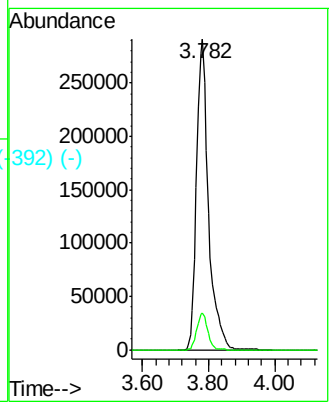
12/30/2020 2:23:47 PM

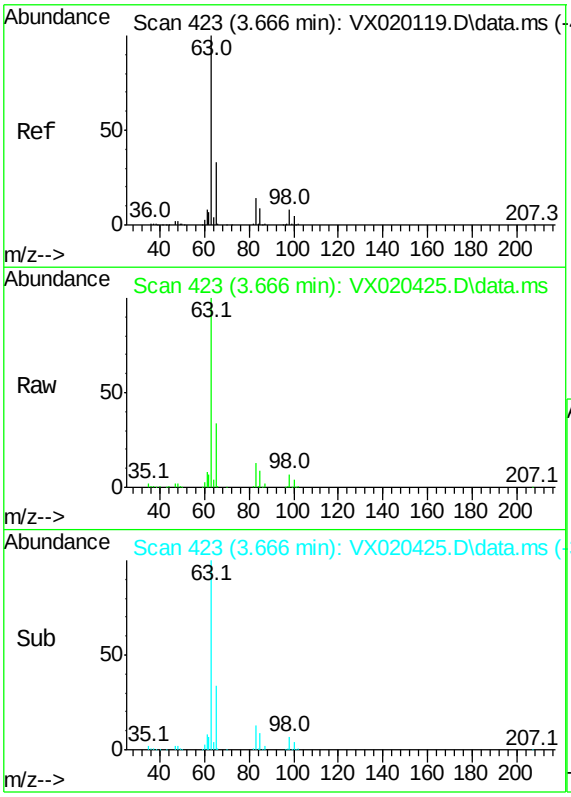


#23
Vinyl Acetate
Concen: 97.86 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 729336

Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.9	14.9

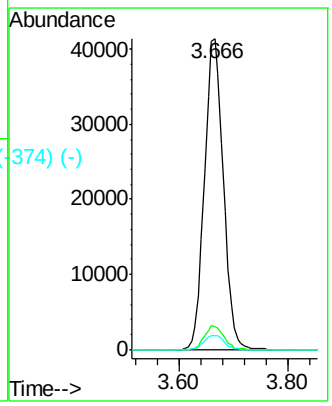




#24
1,1-Dichloroethane
Concen: 19.27 ug/l
RT: 3.666 min Scan# 423
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 63 Resp: 99255

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.4	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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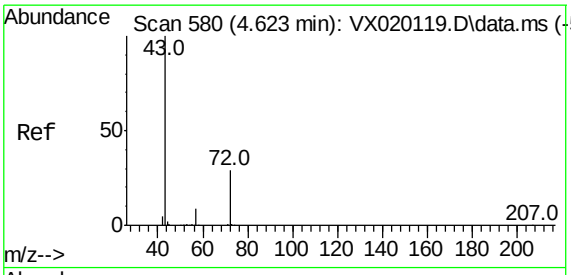
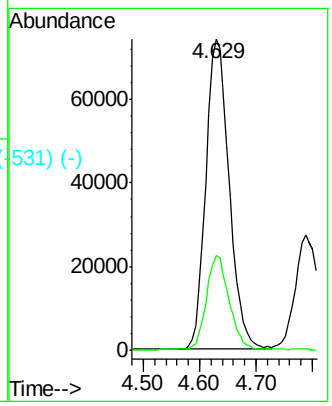
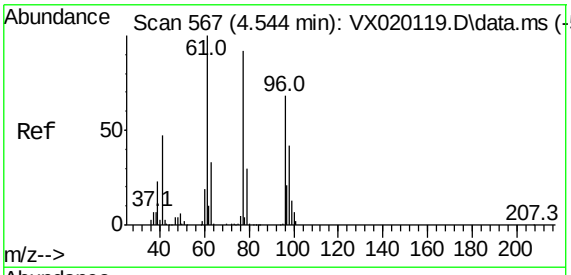


#25
2-Butanone
Concen: 100.47 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 211216

Ion	Ratio	Lower	Upper
43	100		
72	30.2	23.7	35.5

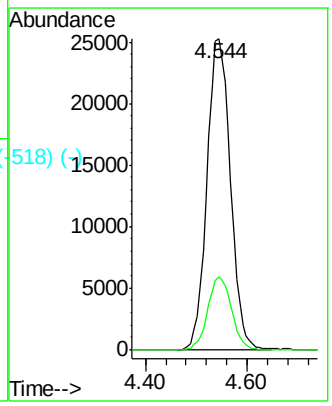




#26
2,2-Dichloropropane
Concen: 18.91 ug/l
RT: 4.544 min Scan# 567
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 77 Resp: 80355

Ion	Ratio	Lower	Upper
77	100		
97	23.5	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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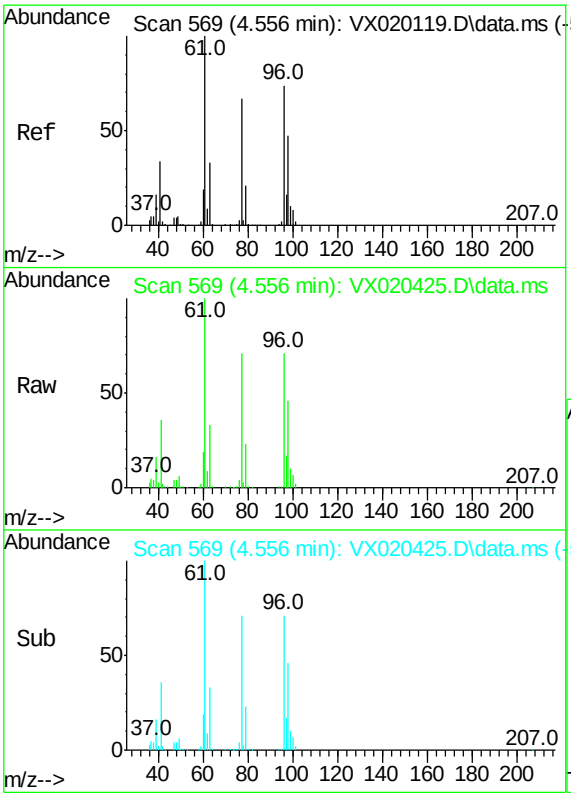
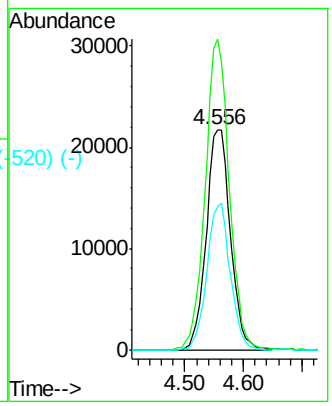
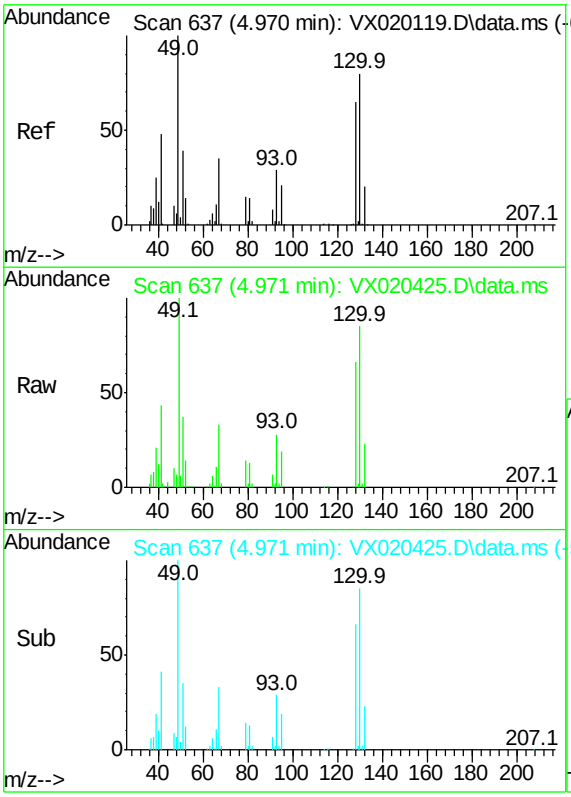


#27
cis-1,2-Dichloroethene
Concen: 18.69 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 96 Resp: 61804

Ion	Ratio	Lower	Upper
96	100		
61	141.3	0.0	285.6
98	64.4	0.0	129.6

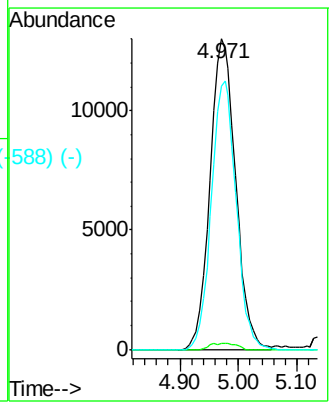




#28
Bromochloromethane
Concen: 17.19 ug/l
RT: 4.971 min Scan# 637
Delta R.T. 0.001 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 49 Resp: 39416

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	84.0	68.2	102.2



Instrument :
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ClientSampleId :
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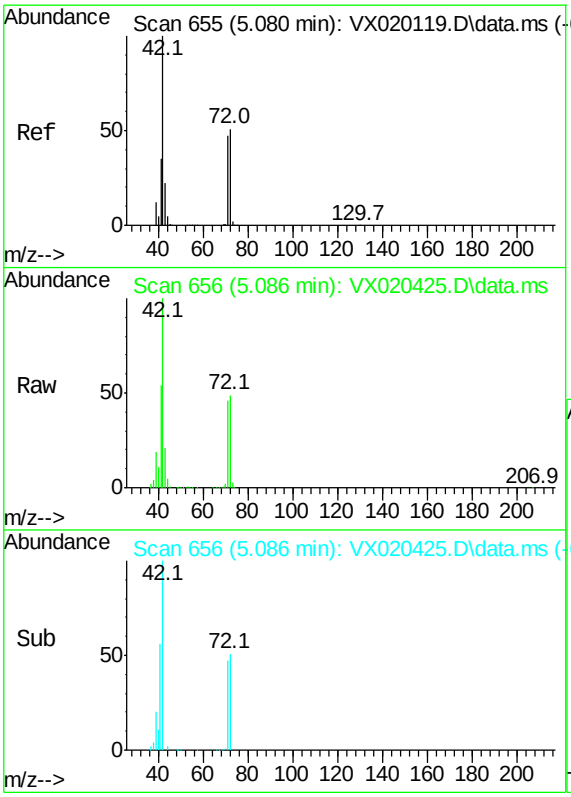
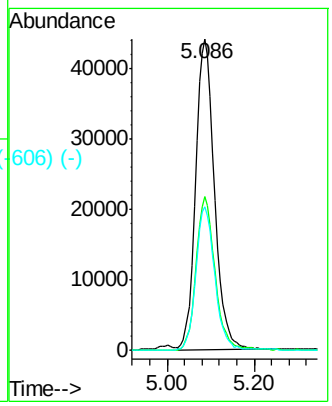
12/30/2020 2:23:47 PM

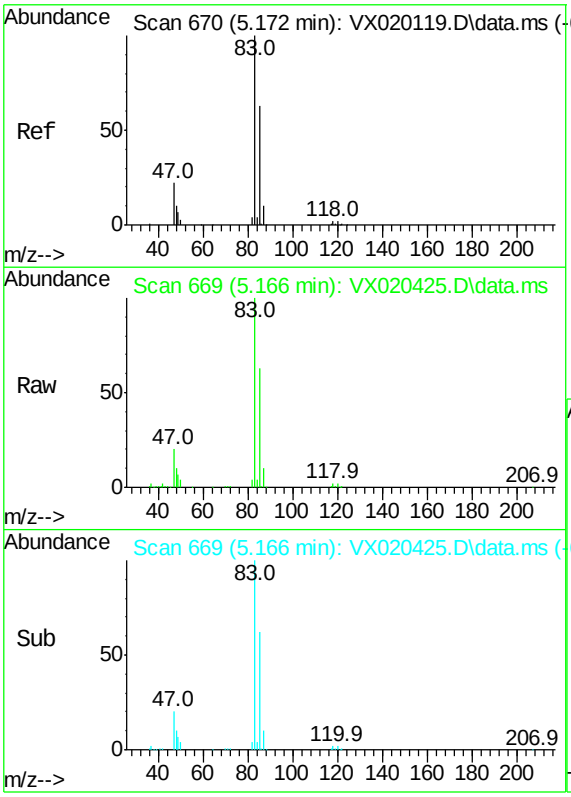


#29
Tetrahydrofuran
Concen: 101.63 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 42 Resp: 134414

Ion	Ratio	Lower	Upper
42	100		
72	49.6	41.7	62.5
71	46.3	38.4	57.6

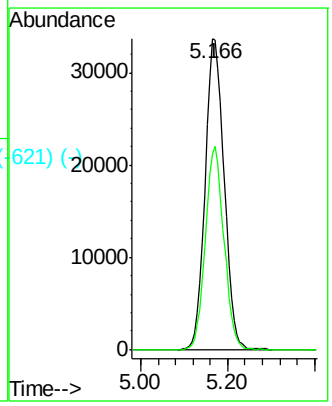




#30
Chloroform
Concen: 19.46 ug/l
RT: 5.166 min Scan# 669
Delta R.T. -0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 83 Resp: 102018

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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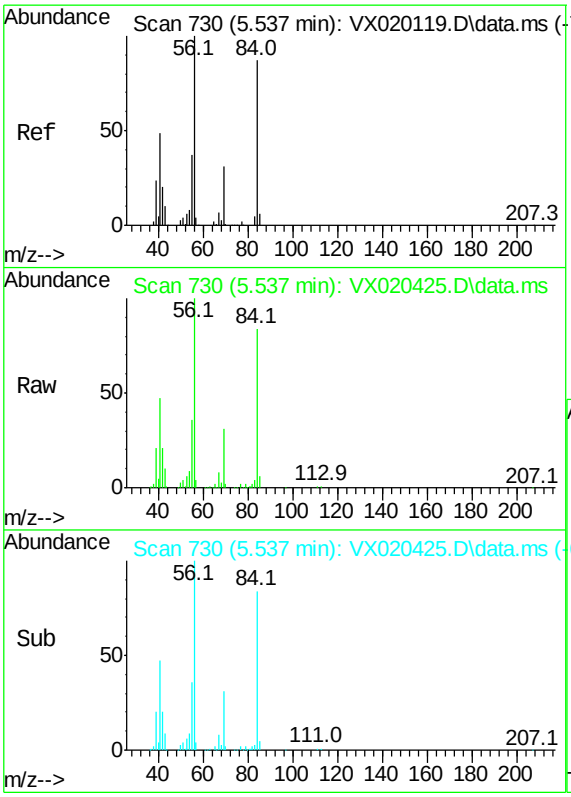
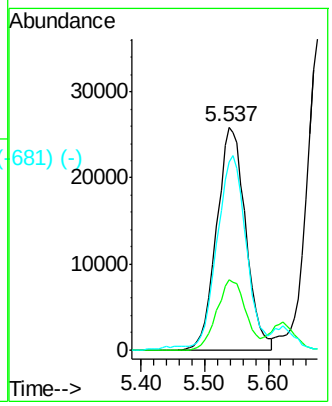
12/30/2020 2:23:47 PM

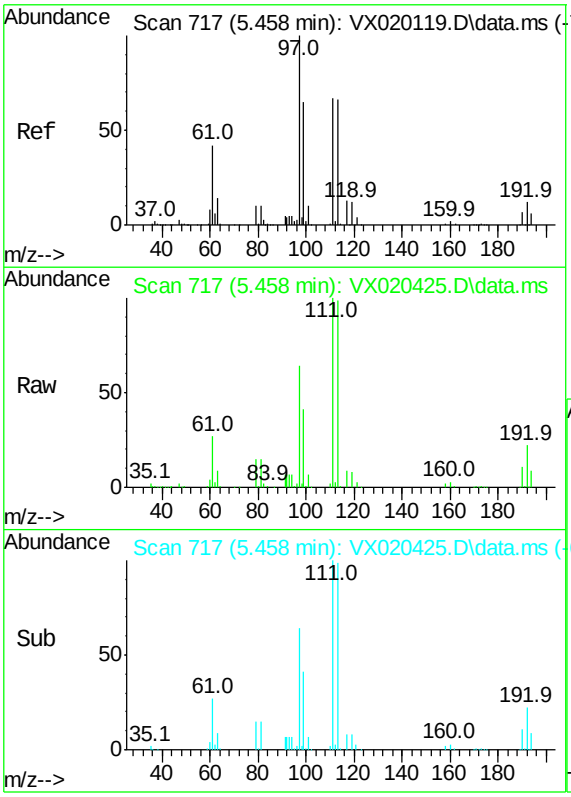


#81
Cyclohexane
Concen: 18.39 ug/l
RT: 5.537 min Scan# 730
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 56 Resp: 80314

Ion	Ratio	Lower	Upper
56	100		
69	31.3	25.3	37.9
84	82.8	71.4	107.0

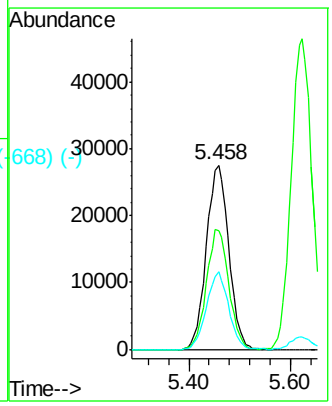




#82
1,1,1-Trichloroethane
Concen: 19.18 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 97 Resp: 83867

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.5	77.3
61	41.6	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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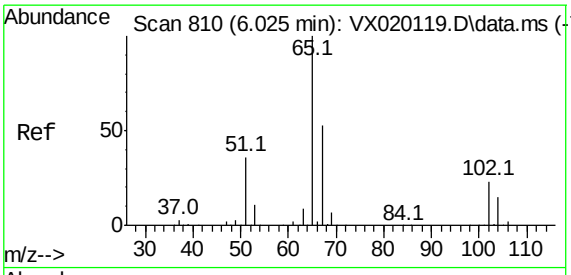
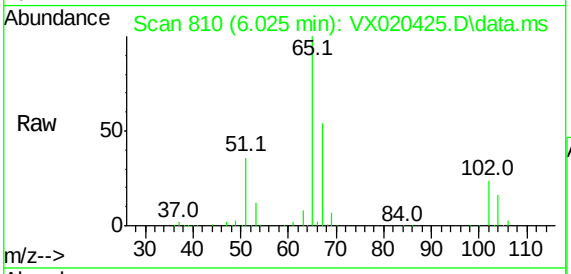
12/30/2020 2:23:47 PM

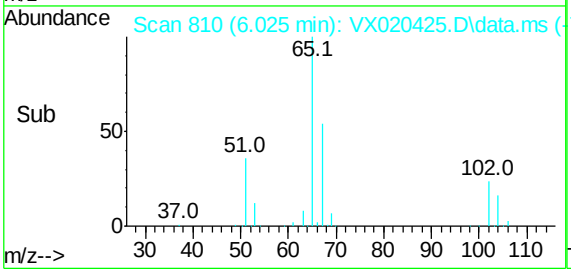


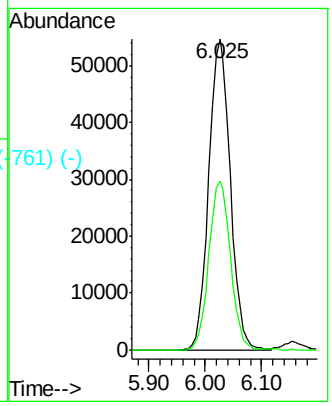
#33
1,2-Dichloroethane-d4
Concen: 45.19 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

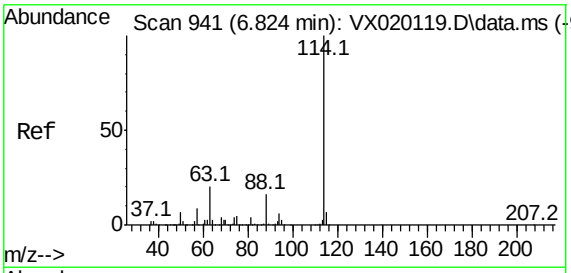
Tgt Ion: 65 Resp: 143140

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	105.4





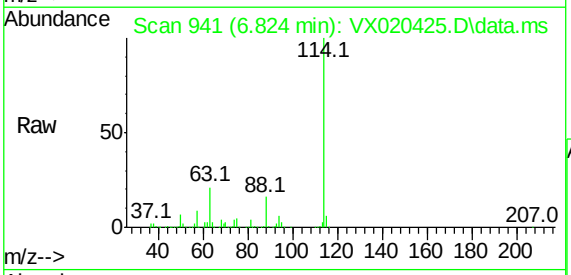


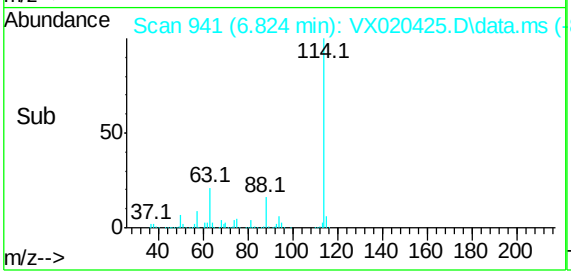


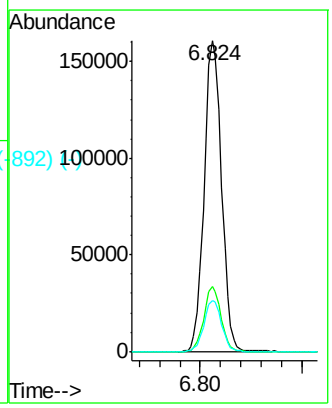
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.824 min Scan# 941
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:114 Resp: 378916

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	16.5	0.0	32.8







Instrument :
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ClientSampleId :
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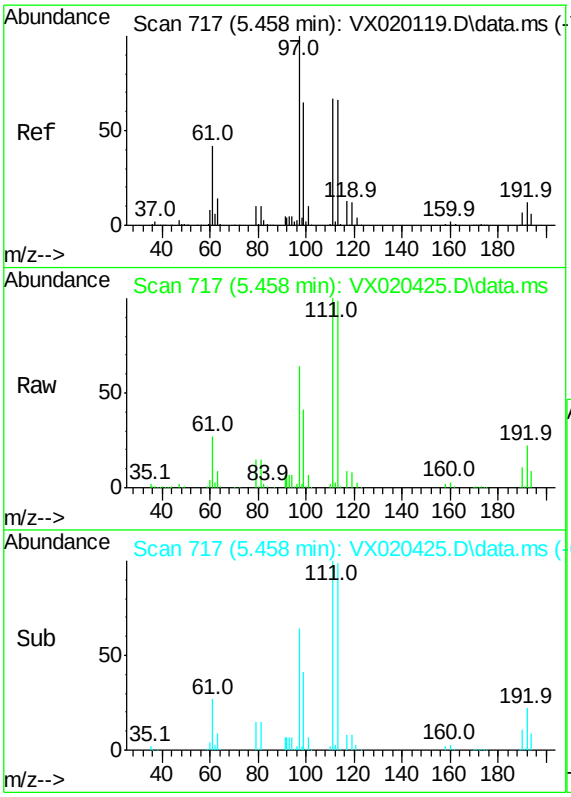
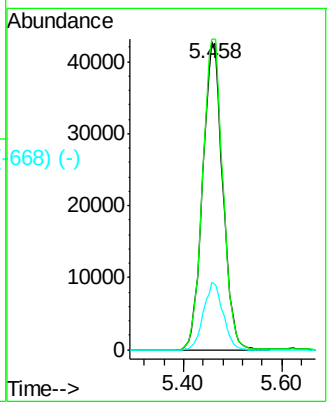
12/30/2020 2:23:47 PM

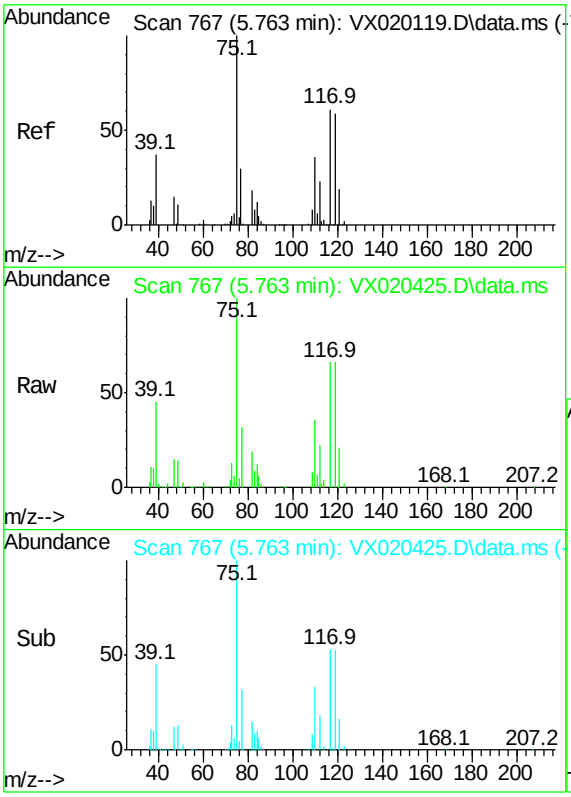


#35
Dibromofluoromethane
Concen: 49.84 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:113 Resp: 120809

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.9	122.9
192	21.3	16.7	25.1

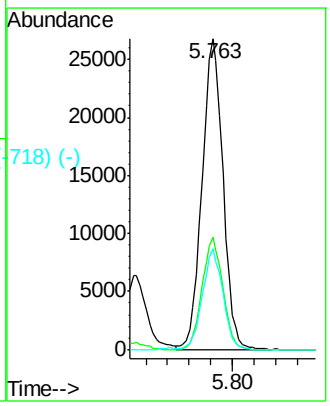




#36
1,1-Dichloropropene
Concen: 19.01 ug/l
RT: 5.763 min Scan# 767
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 75 Resp: 71180

Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.4
77	31.5	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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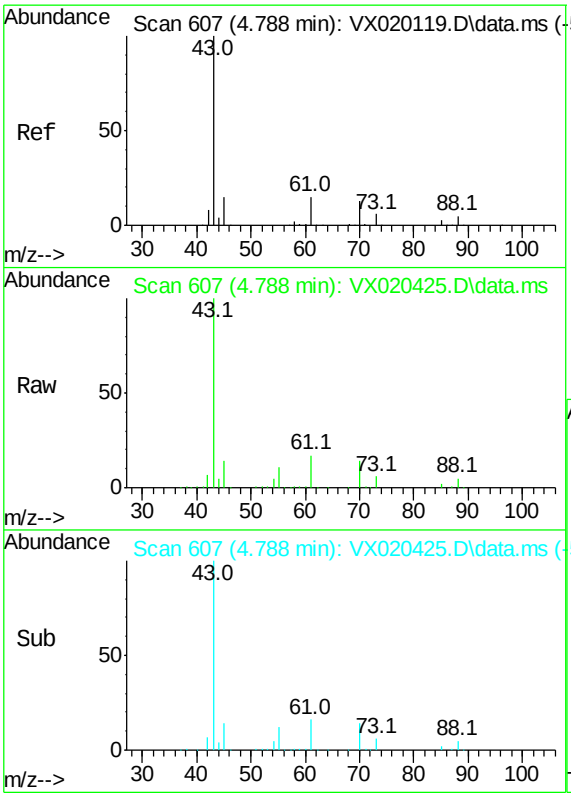
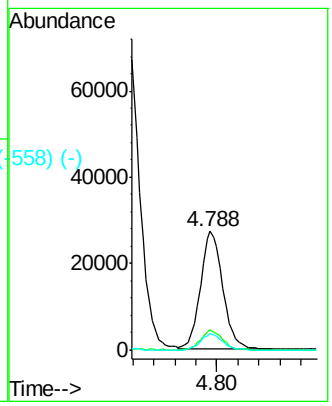
12/30/2020 2:23:47 PM

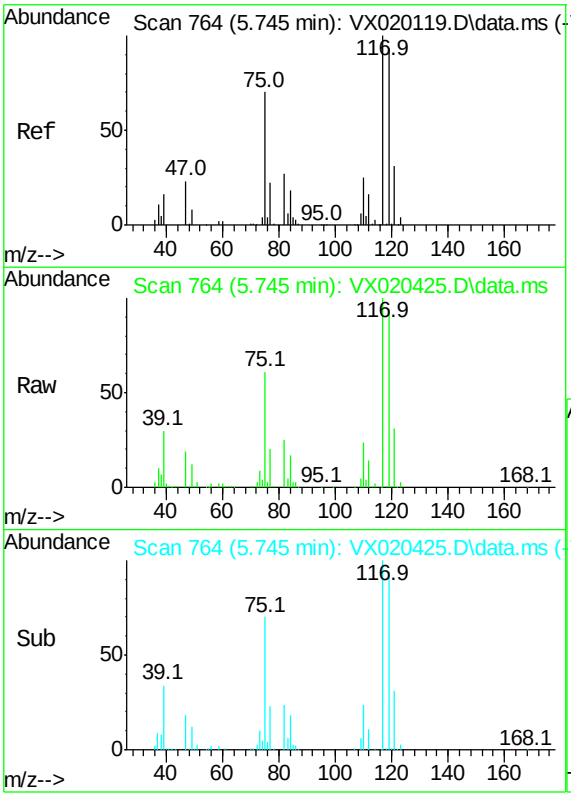


#37
Ethyl Acetate
Concen: 20.51 ug/l
RT: 4.788 min Scan# 607
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 79803

Ion	Ratio	Lower	Upper
43	100		
61	16.0	12.8	19.2
70	13.2	10.5	15.7

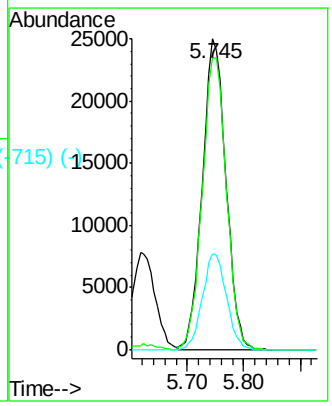




#38
Carbon Tetrachloride
Concen: 20.14 ug/l
RT: 5.745 min Scan# 764
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:117 Resp: 71750

Ion	Ratio	Lower	Upper
117	100		
119	94.0	76.2	114.2
121	30.8	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
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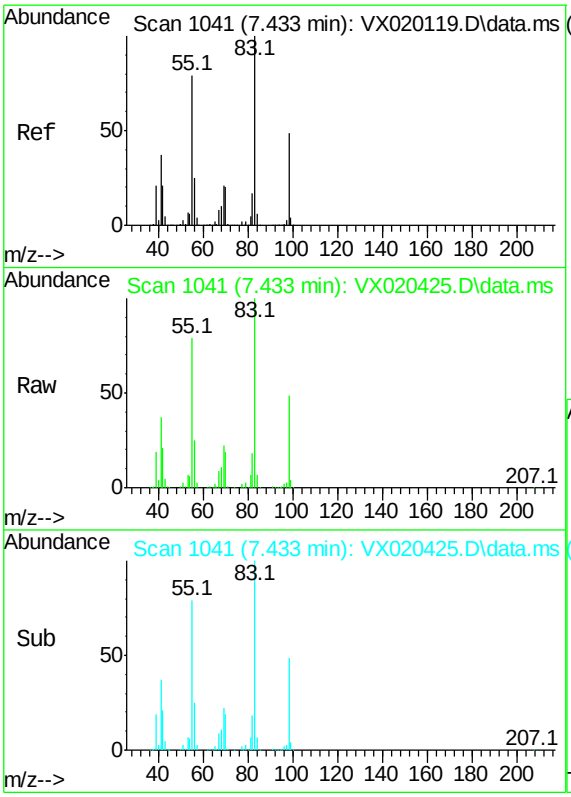
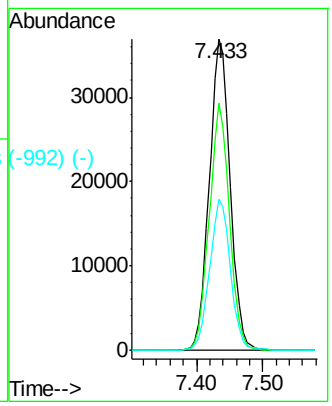
12/30/2020 2:23:47 PM

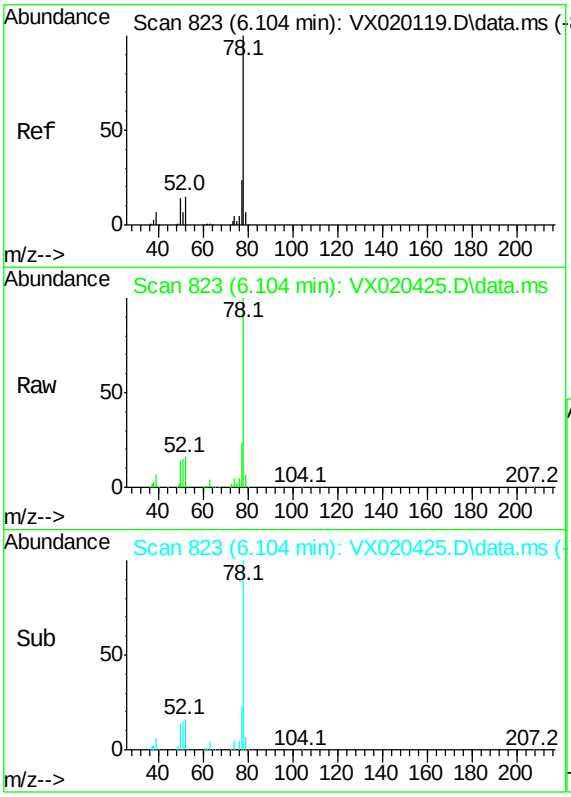


#39
Methylcyclohexane
Concen: 18.67 ug/l
RT: 7.433 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 83 Resp: 80693

Ion	Ratio	Lower	Upper
83	100		
55	79.3	58.9	88.3
98	48.7	38.1	57.1

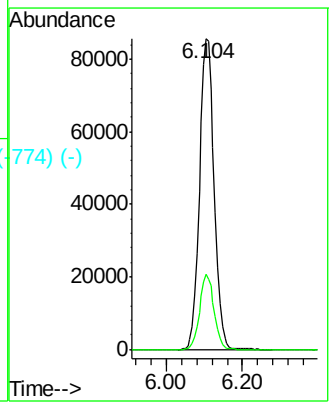




#40
Benzene
Concen: 19.52 ug/l
RT: 6.104 min Scan# 823
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 78 Resp: 227539

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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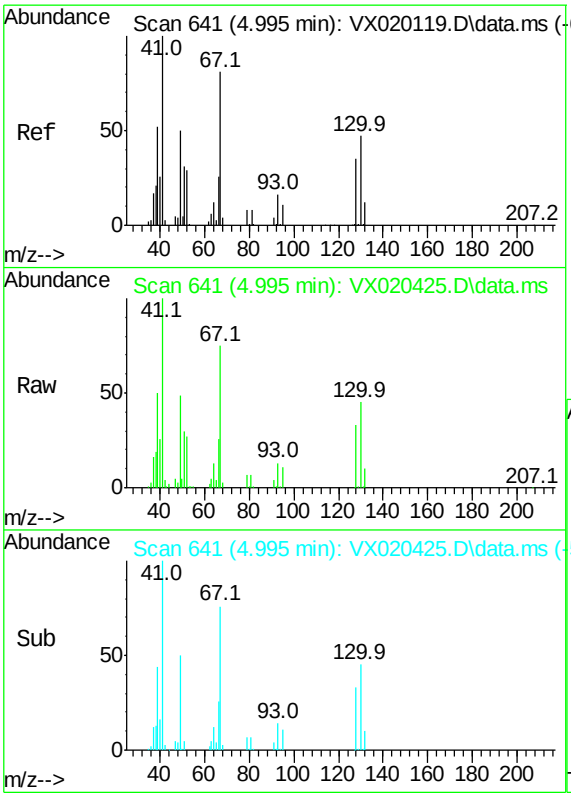
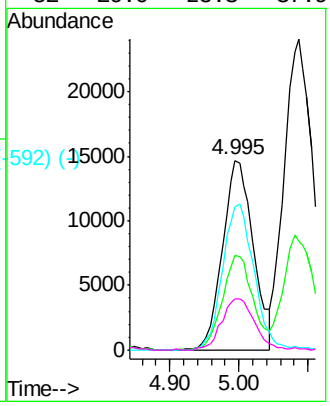
12/30/2020 2:23:47 PM

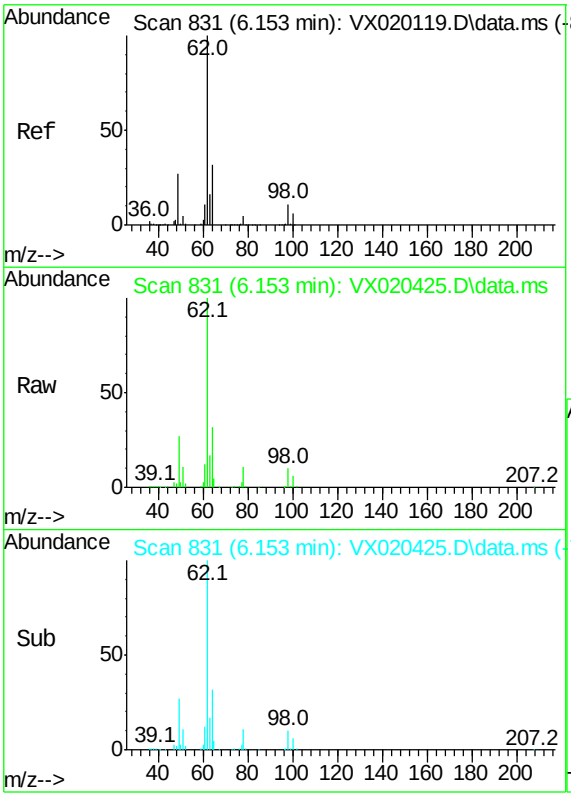


#41
Methacrylonitrile
Concen: 21.71 ug/l
RT: 4.995 min Scan# 641
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 41 Resp: 45015

Ion	Ratio	Lower	Upper
41	100		
39	49.8	42.5	63.7
67	79.5	65.0	97.6
52	29.0	25.3	37.9

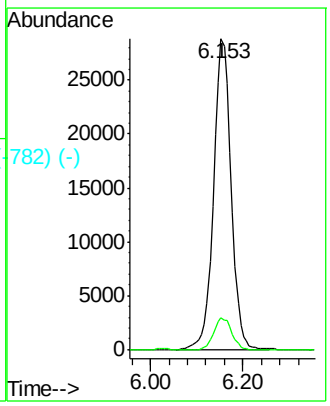




#42
1,2-Dichloroethane
Concen: 18.92 ug/l
RT: 6.153 min Scan# 831
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 62 Resp: 75674

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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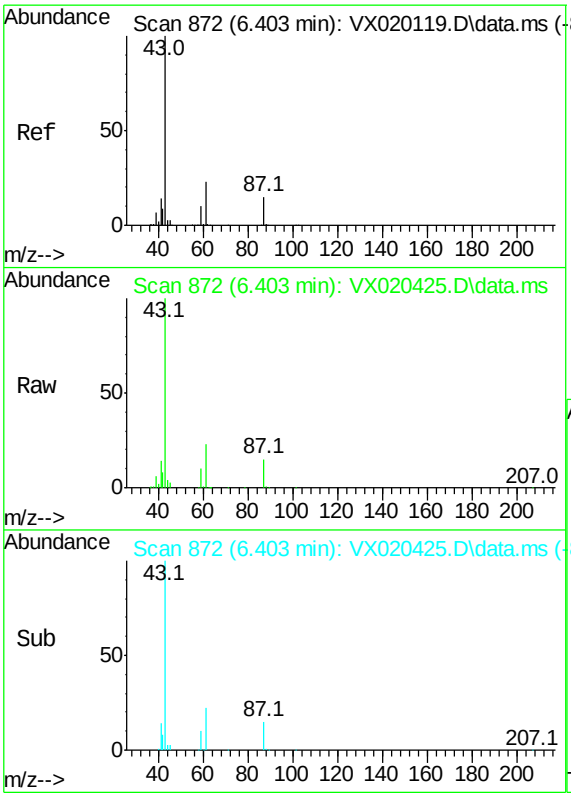
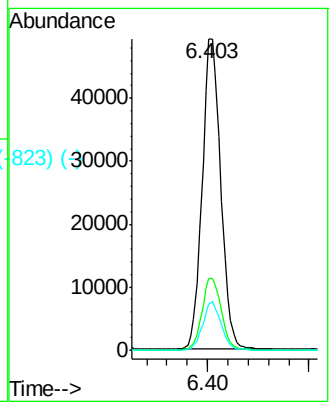
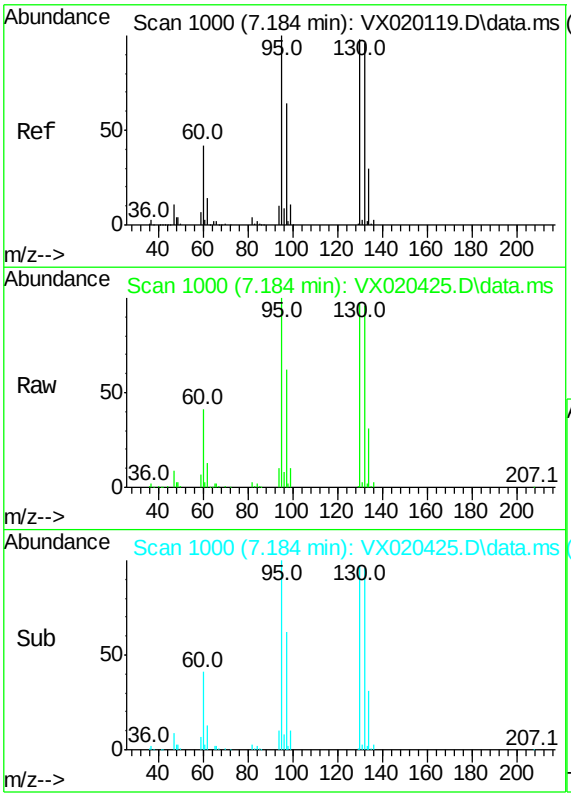


#43
Isopropyl Acetate
Concen: 20.30 ug/l
RT: 6.403 min Scan# 872
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 124696

Ion	Ratio	Lower	Upper
43	100		
61	23.8	18.2	27.4
87	15.1	12.5	18.7

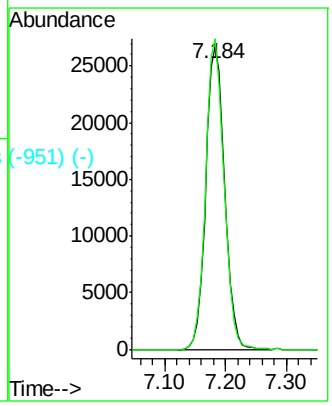




#44
Trichloroethene
Concen: 19.00 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:130 Resp: 57252

Ion	Ratio	Lower	Upper
130	100		
95	102.7	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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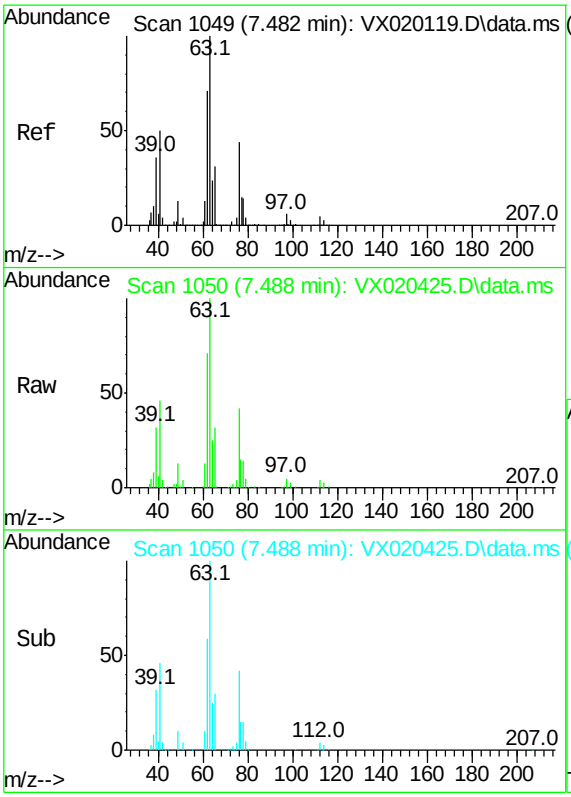
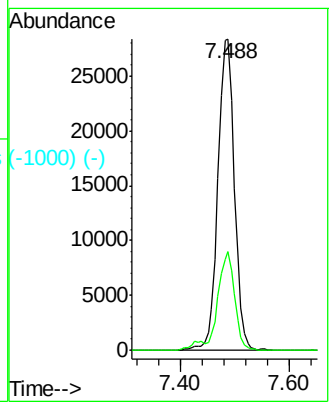
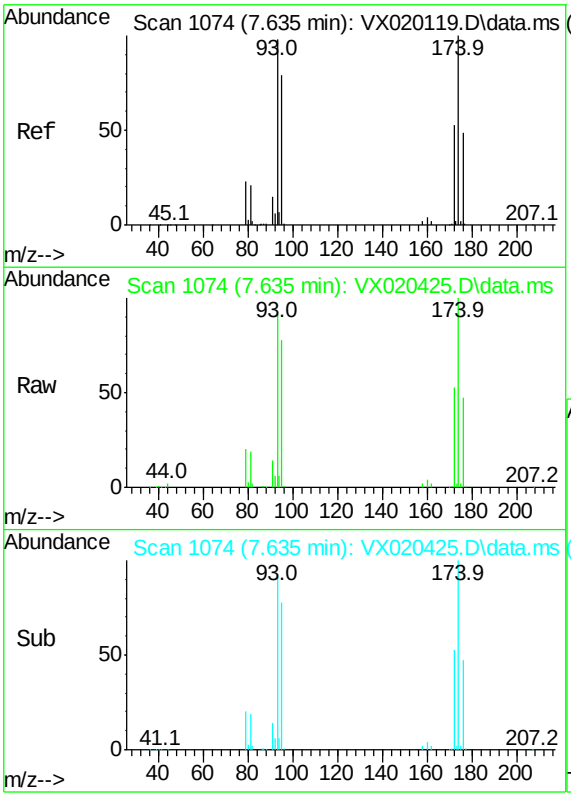


#45
1,2-Dichloropropane
Concen: 20.28 ug/l
RT: 7.488 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 63 Resp: 59739

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.7	38.5

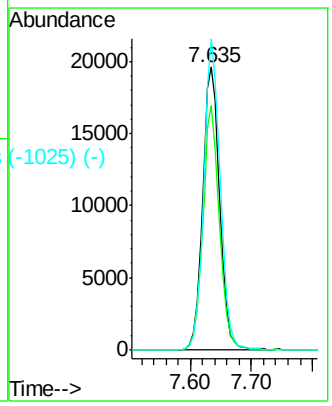




#46
Dibromomethane
Concen: 18.95 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 93 Resp: 38198

Ion	Ratio	Lower	Upper
93	100		
95	83.5	66.8	100.2
174	106.6	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
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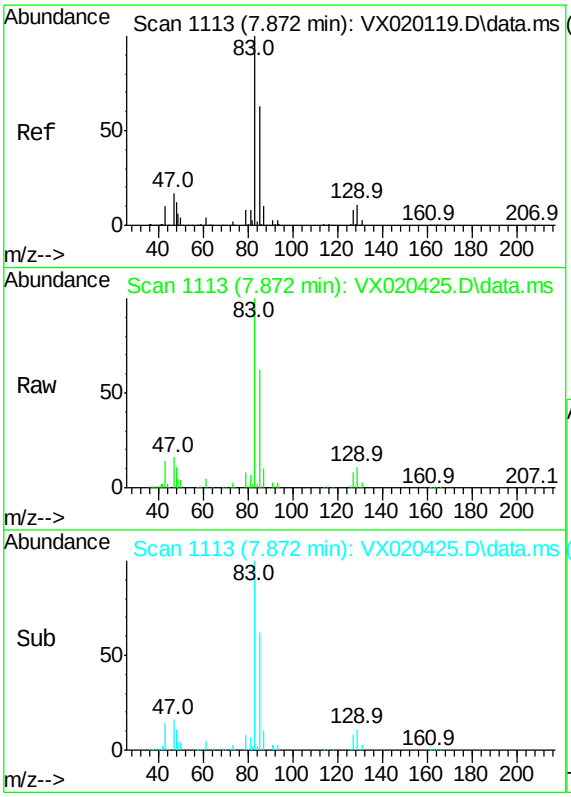
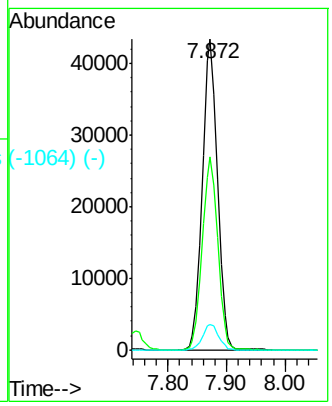
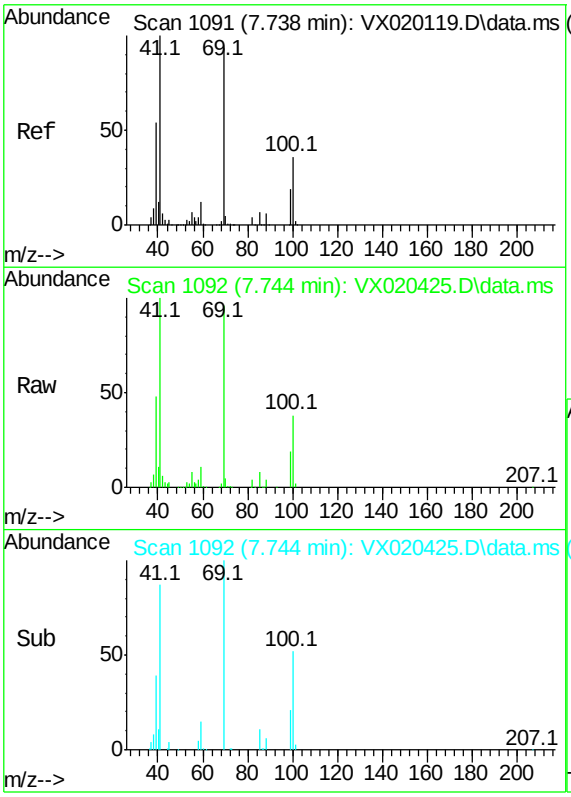


#47
Bromodichloromethane
Concen: 20.29 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 83 Resp: 77968

Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.4	77.0
127	8.3	6.8	10.2

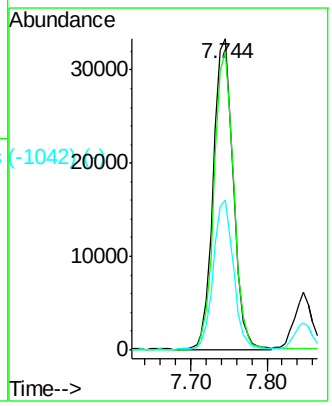




#48
Methyl methacrylate
Concen: 20.28 ug/l
RT: 7.744 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 41 Resp: 61066

Ion	Ratio	Lower	Upper
41	100		
69	93.8	76.0	114.0
39	48.4	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
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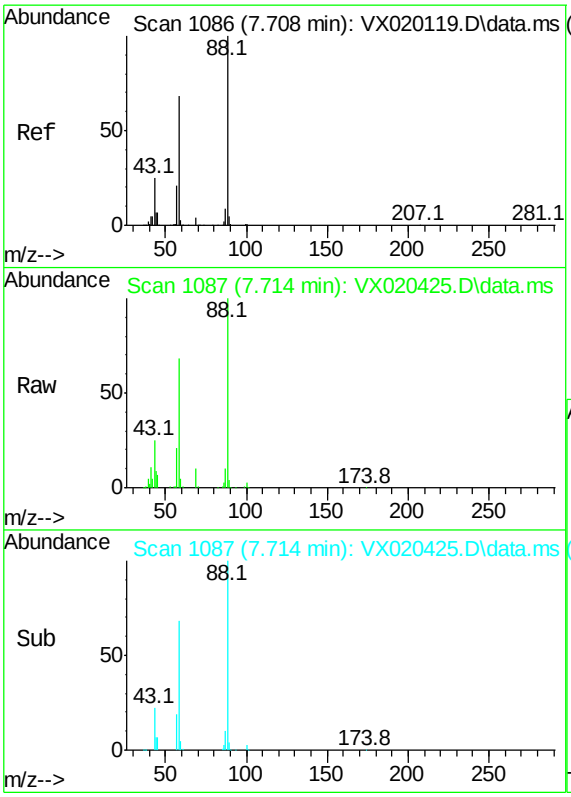
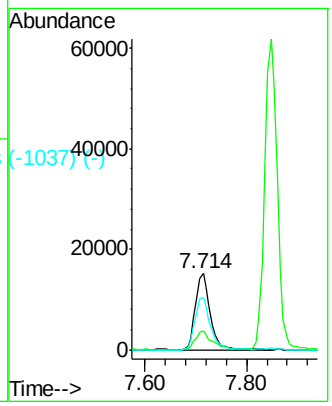
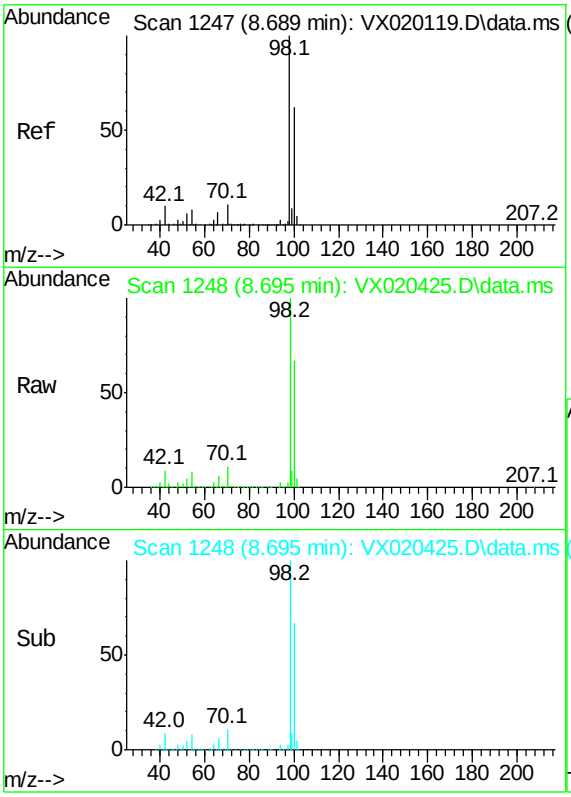


#49
1,4-Dioxane
Concen: 436.03 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 88 Resp: 30730

Ion	Ratio	Lower	Upper
88	100		
43	28.9	23.2	34.8
58	71.3	55.0	82.4

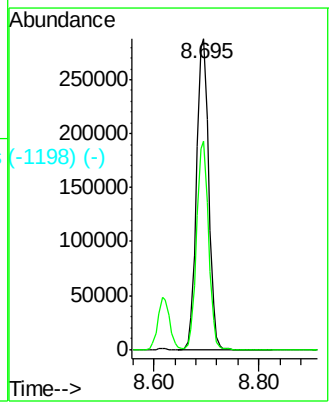




#50
Toluene-d8
Concen: 49.50 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 98 Resp: 461876

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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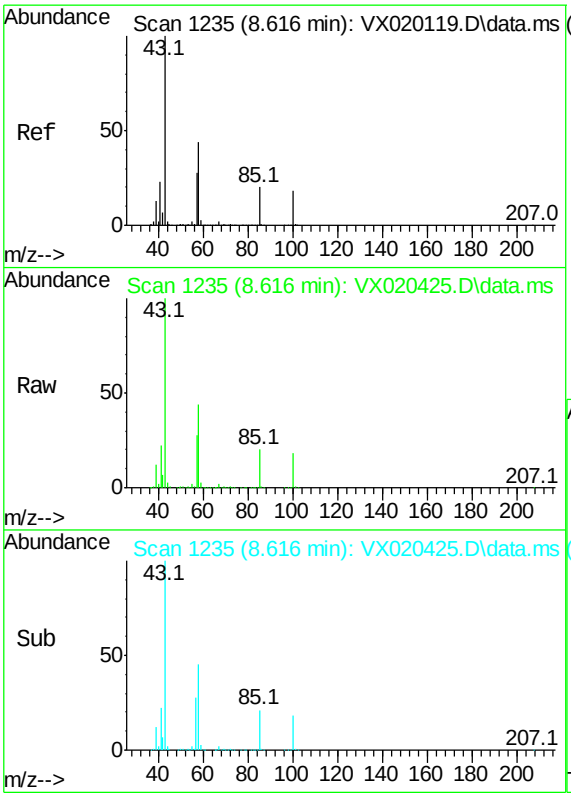
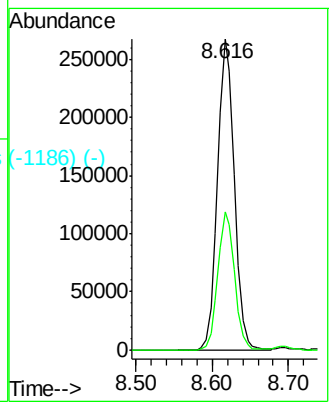
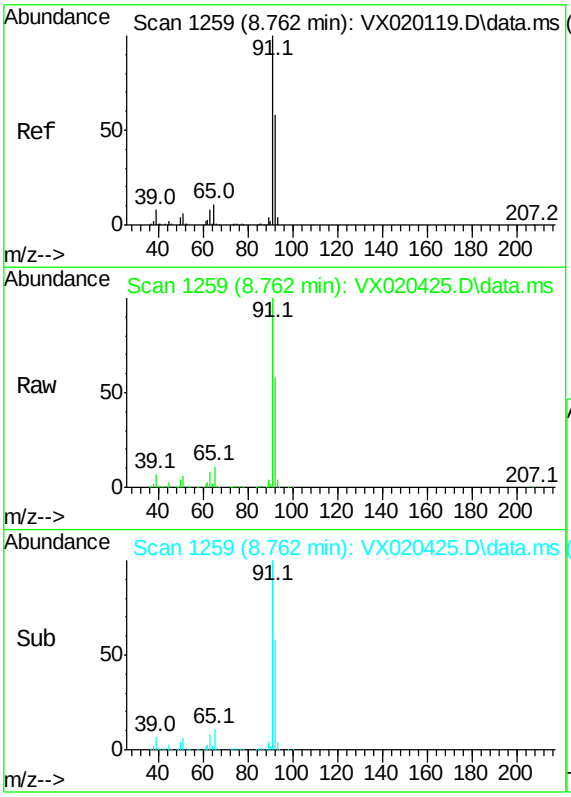


#51
4-Methyl-2-Pentanone
Concen: 107.90 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 410426

Ion	Ratio	Lower	Upper
43	100		
58	44.3	35.4	53.0

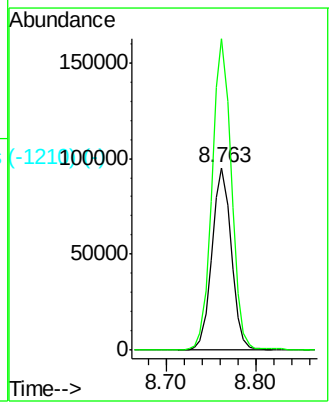




#52
Toluene
Concen: 19.91 ug/l
RT: 8.762 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 92 Resp: 141668

Ion	Ratio	Lower	Upper
92	100		
91	172.1	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
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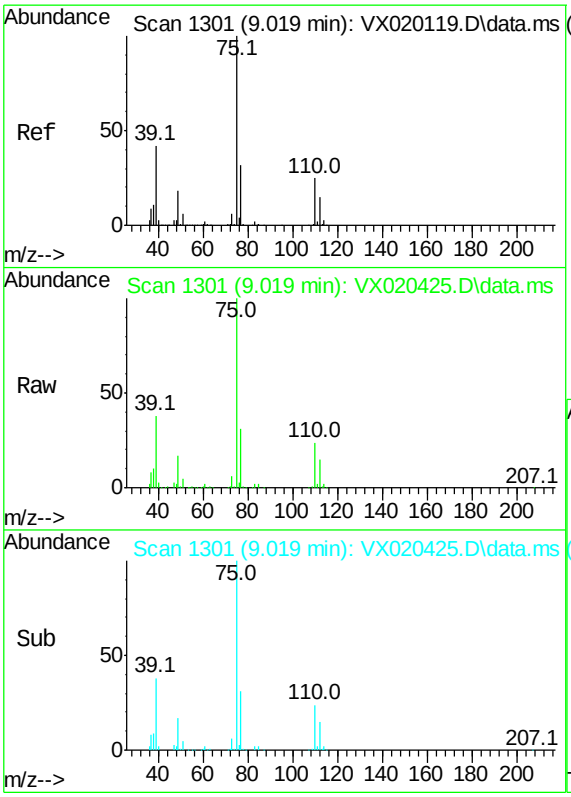
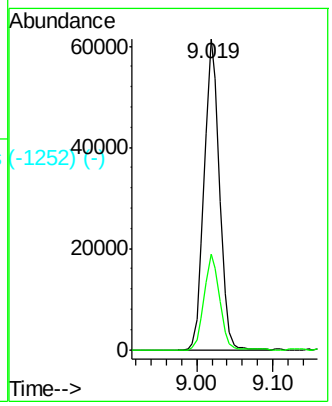
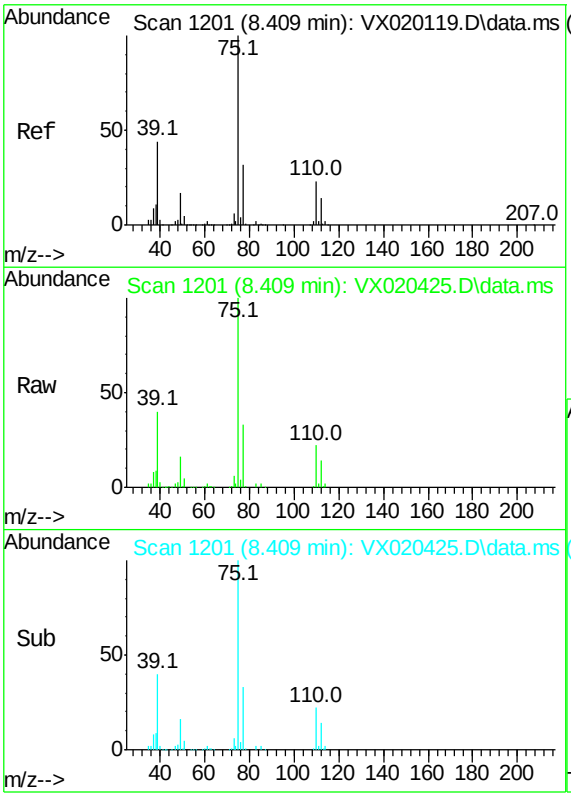


#53
t-1,3-Dichloropropene
Concen: 20.13 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 75 Resp: 85077

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.9	37.3

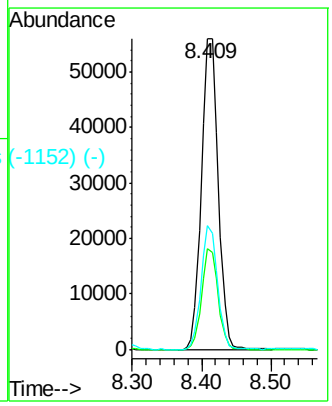




#54
cis-1,3-Dichloropropene
Concen: 20.12 ug/l
RT: 8.409 min Scan# 1201
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 75 Resp: 93355

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.7	38.5
39	39.9	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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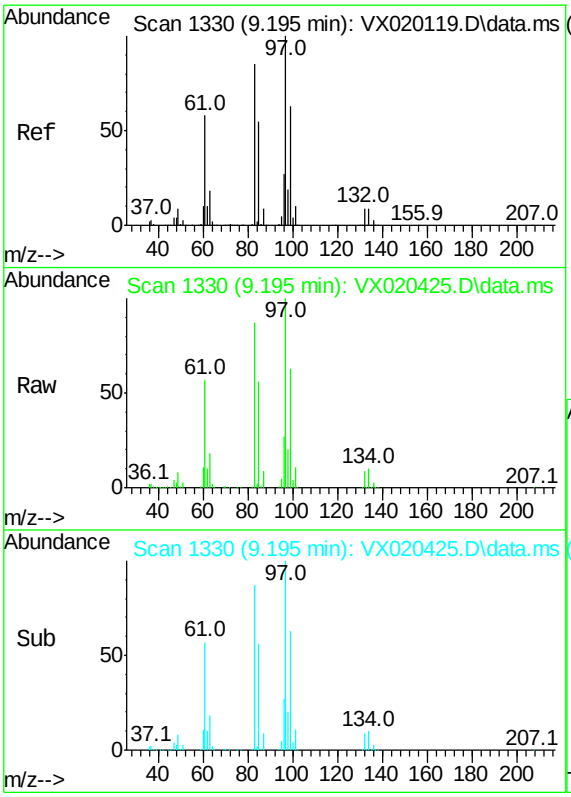
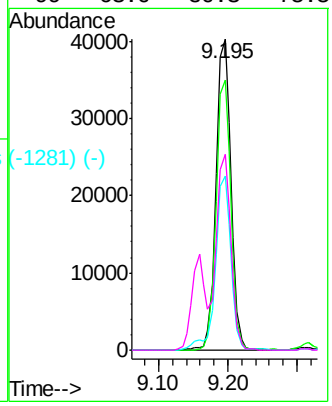
12/30/2020 2:23:47 PM

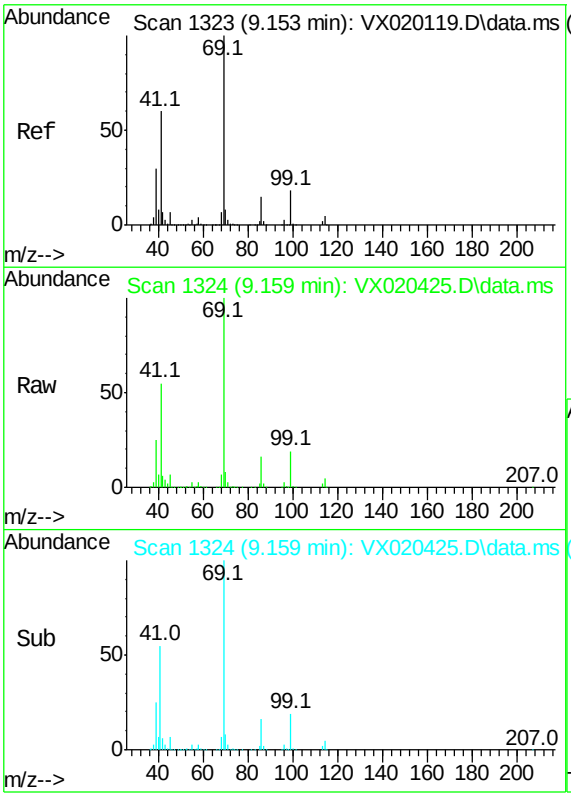


#55
1,1,2-Trichloroethane
Concen: 20.50 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 97 Resp: 60158

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.3	103.9
85	56.0	44.3	66.5
99	63.0	50.3	75.5

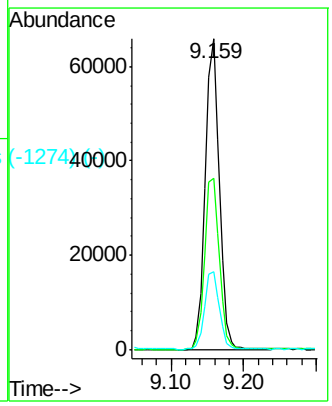




#56
Ethyl methacrylate
Concen: 20.92 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 69 Resp: 89822

Ion	Ratio	Lower	Upper
69	100		
41	58.0	46.8	70.2
39	26.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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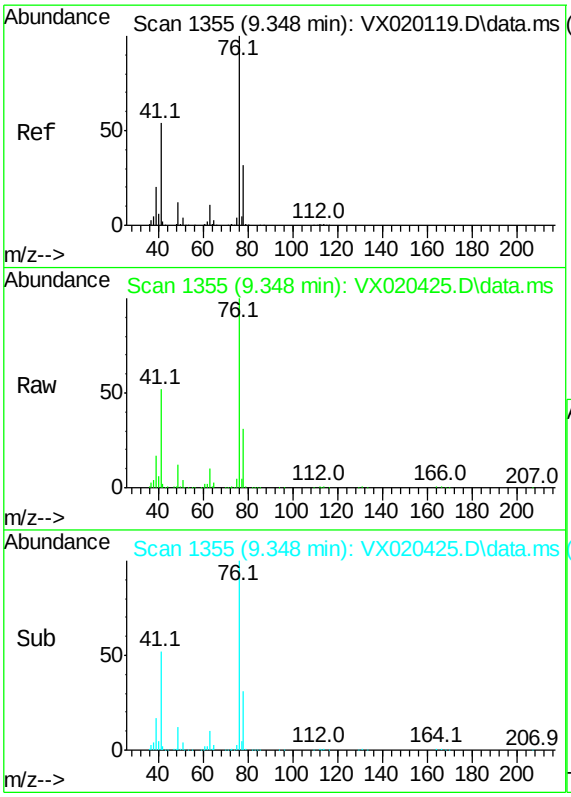
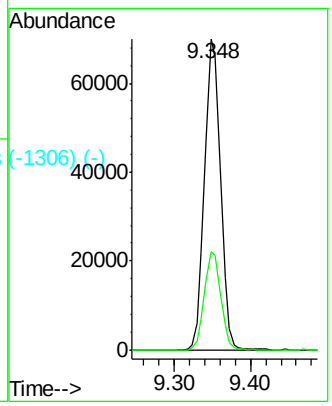
12/30/2020 2:23:47 PM

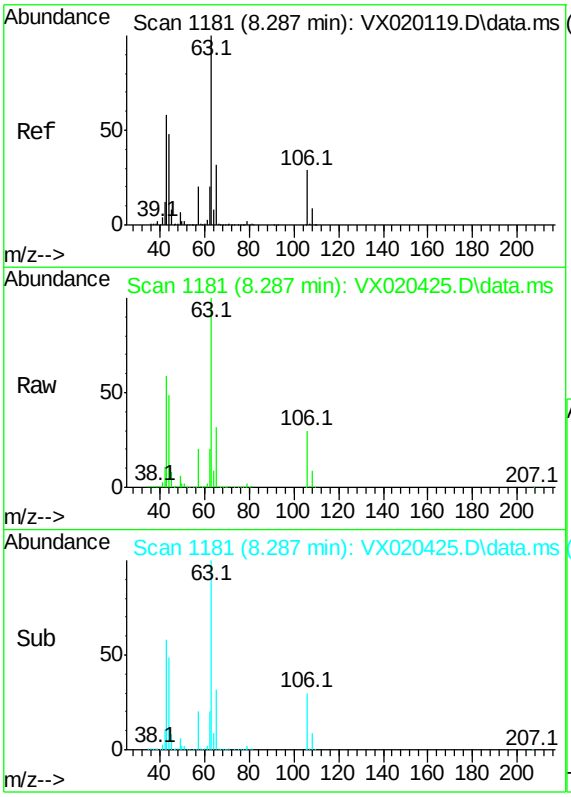


#57
1,3-Dichloropropane
Concen: 20.33 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 76 Resp: 101518

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.2

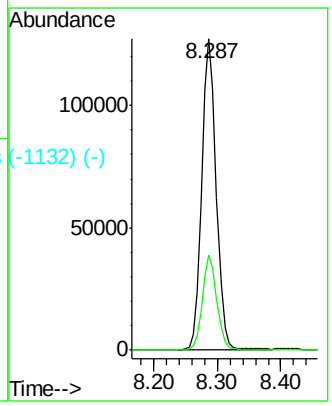




#58
2-Chloroethyl Vinyl ether
Concen: 85.97 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 63 Resp: 195275

Ion	Ratio	Lower	Upper
63	100		
106	29.8	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

Manual Integrations APPROVED
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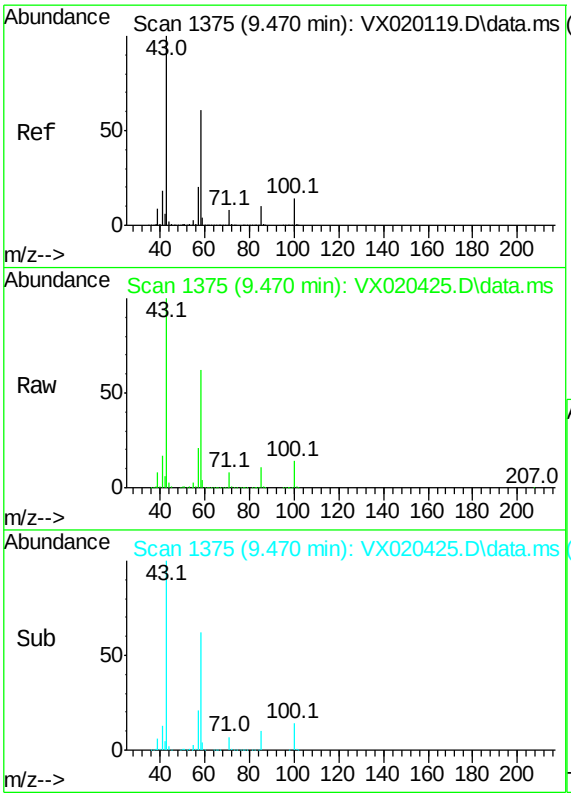
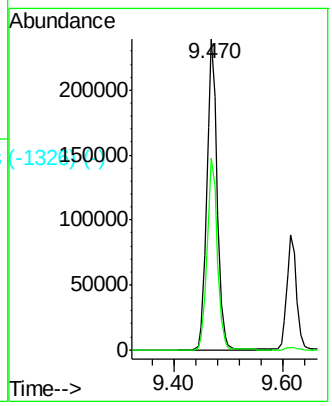
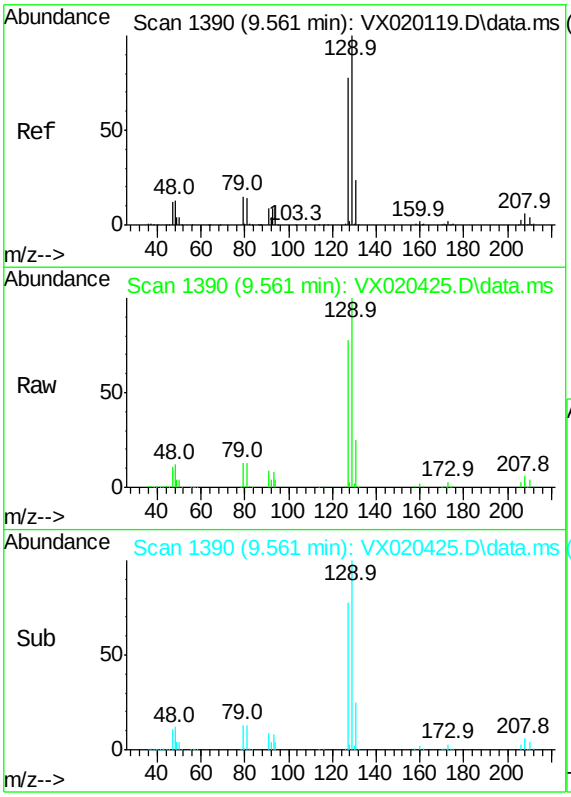


#58
2-Hexanone
Concen: 108.34 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 314036

Ion	Ratio	Lower	Upper
43	100		
58	61.9	30.9	92.8

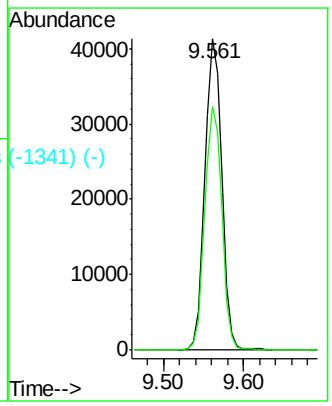




#60
Dibromochloromethane
Concen: 20.53 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:129 Resp: 59782

Ion	Ratio	Lower	Upper
129	100		
127	79.3	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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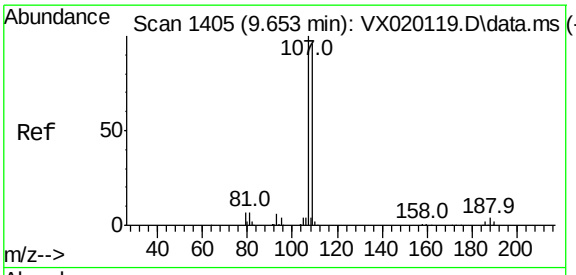
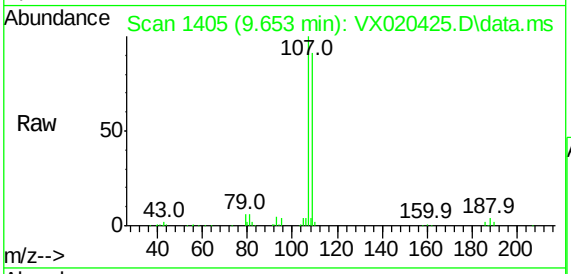
12/30/2020 2:23:47 PM

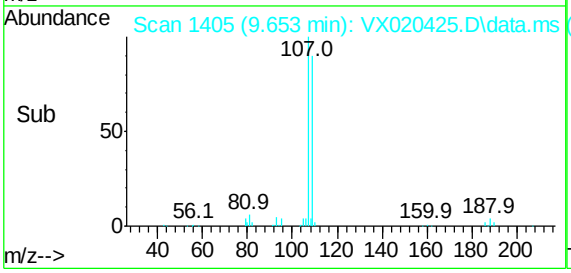


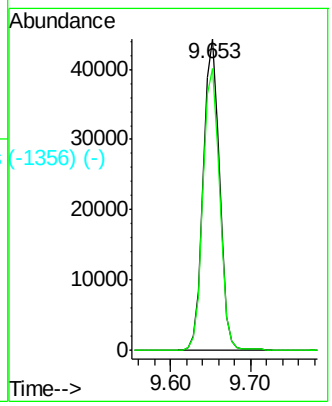
#61
1,2-Dibromoethane
Concen: 20.14 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

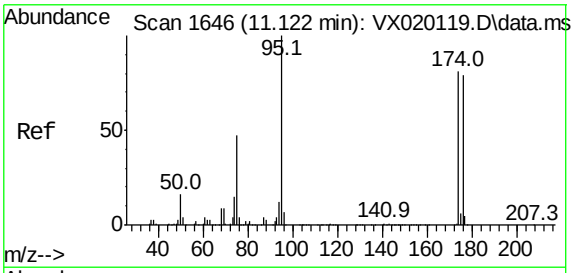
Tgt Ion:107 Resp: 61715

Ion	Ratio	Lower	Upper
107	100		
109	93.0	75.8	113.6





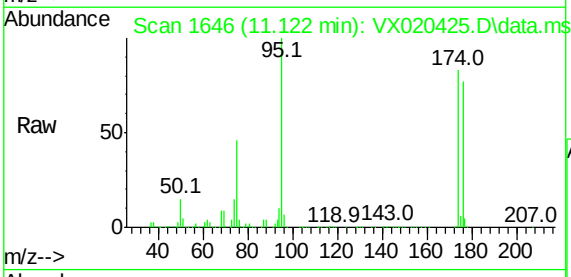


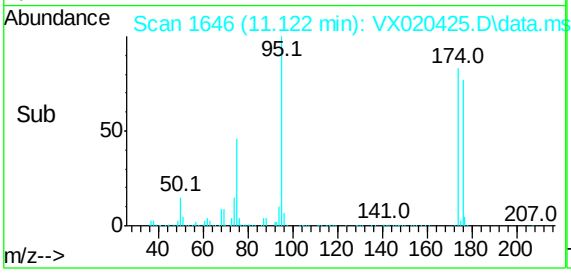


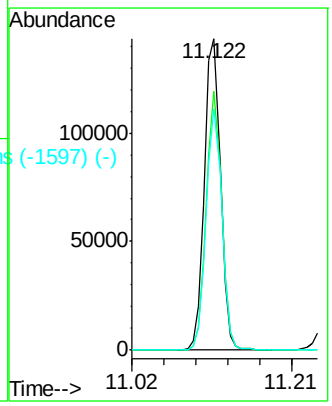
#62
4-Bromofluorobenzene
Concen: 50.74 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 95 Resp: 181205

Ion	Ratio	Lower	Upper
95	100		
174	79.3	0.0	154.6
176	75.8	0.0	155.8







Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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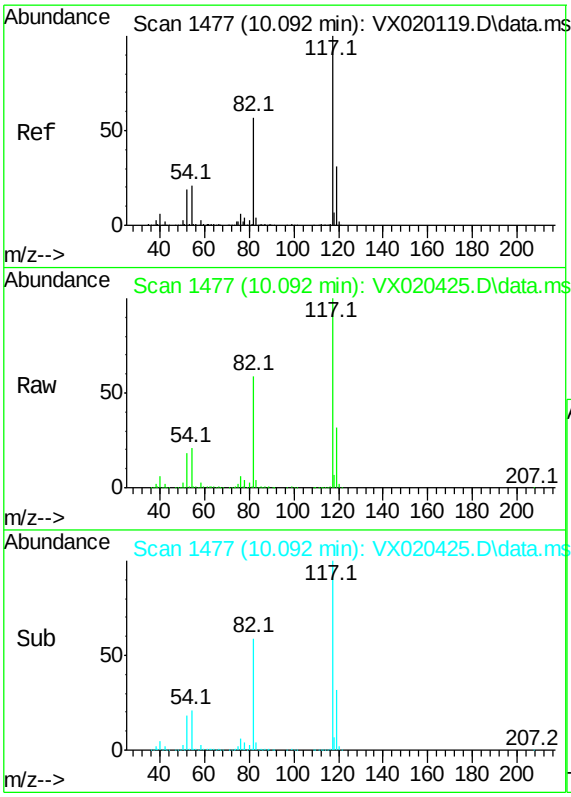
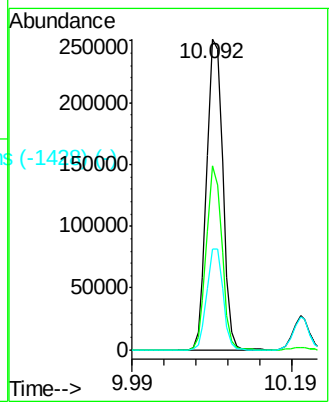
12/30/2020 2:23:47 PM

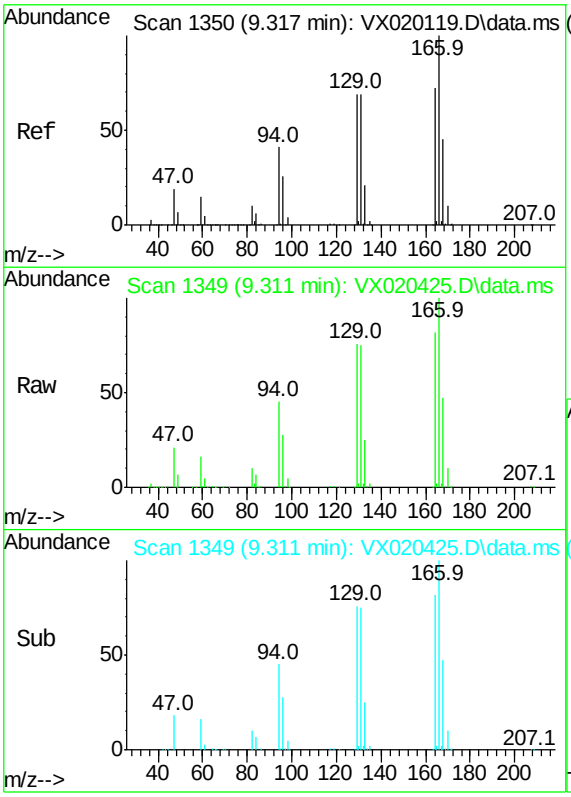


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:117 Resp: 350328

Ion	Ratio	Lower	Upper
117	100		
82	59.1	47.4	71.2
119	32.5	26.6	39.8

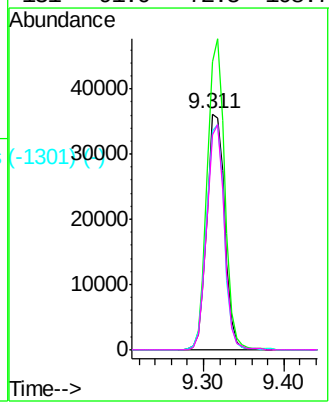




#64
Tetrachloroethene
Concen: 21.00 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. -0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:164 Resp: 55437

Ion	Ratio	Lower	Upper
164	100		
166	122.0	103.4	155.2
129	92.6	70.8	106.2
131	91.0	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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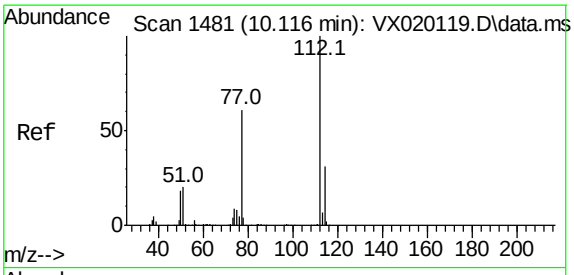
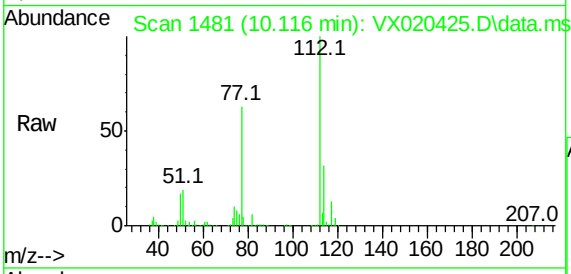
12/30/2020 2:23:47 PM

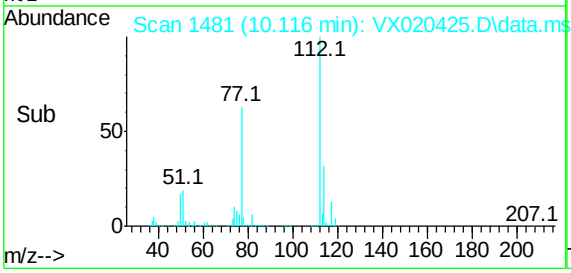


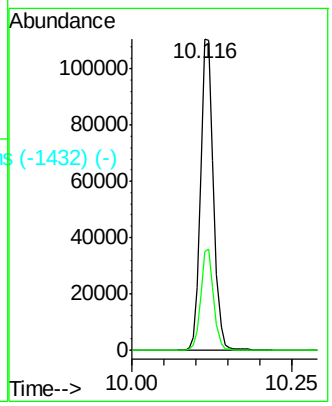
#65
Chlorobenzene
Concen: 20.32 ug/l
RT: 10.116 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

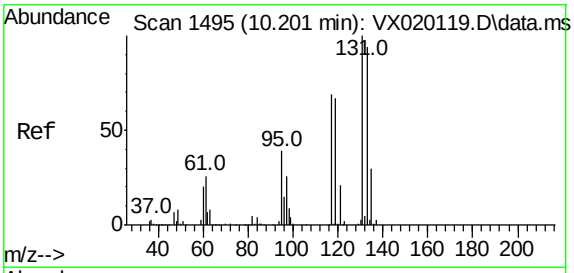
Tgt Ion:112 Resp: 152733

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.8	38.6





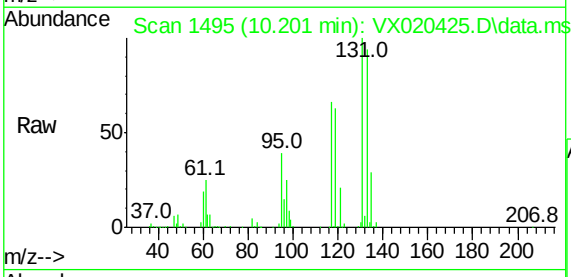


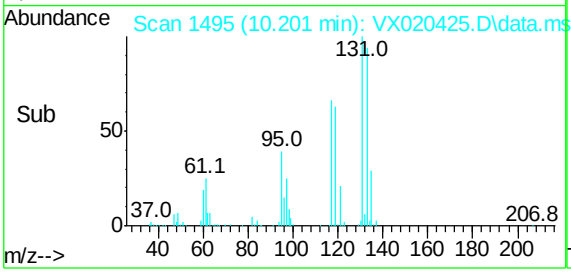


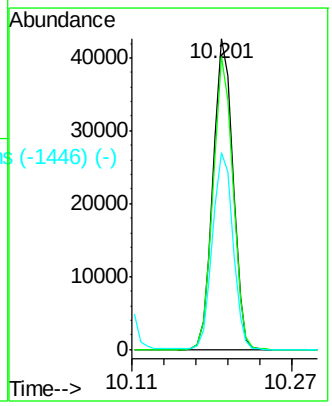
#66
1,1,1,2-Tetrachloroethane
Concen: 21.23 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:131 Resp: 57253

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.7	143.1
119	64.9	32.1	96.5







Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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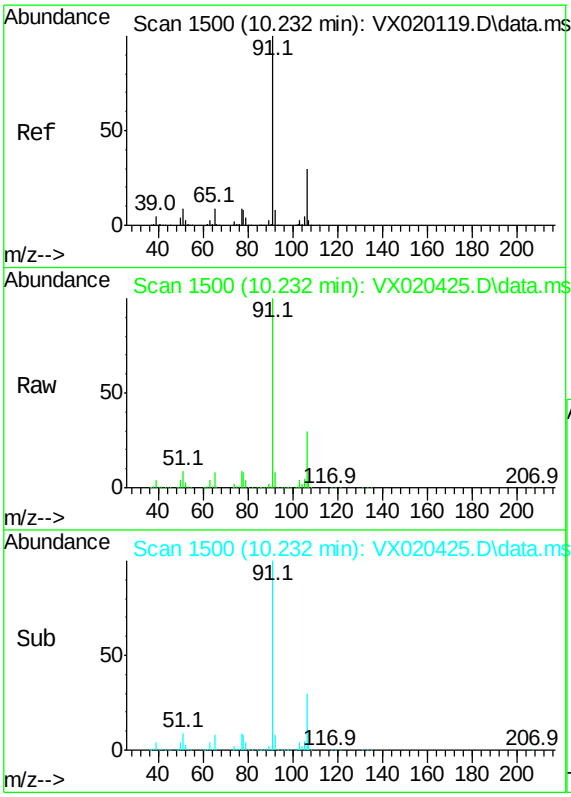
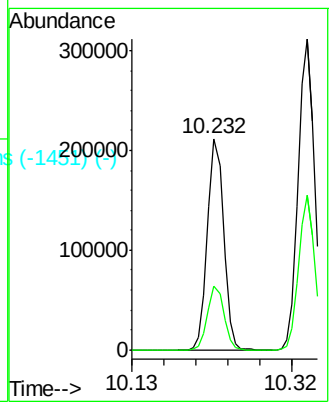
12/30/2020 2:23:47 PM

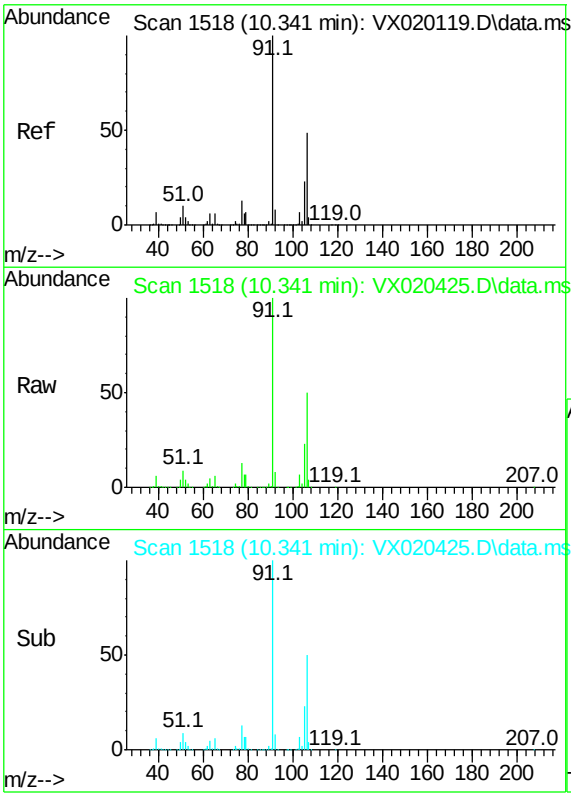


#67
Ethyl Benzene
Concen: 20.59 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 91 Resp: 270566

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.6	37.0

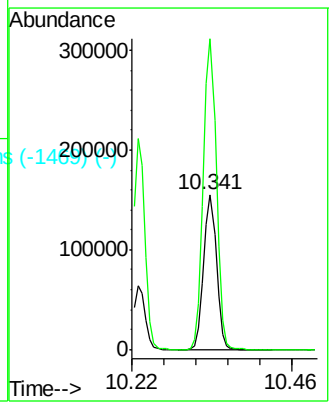




#68
m/p-Xylenes
Concen: 41.83 ug/l
RT: 10.341 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

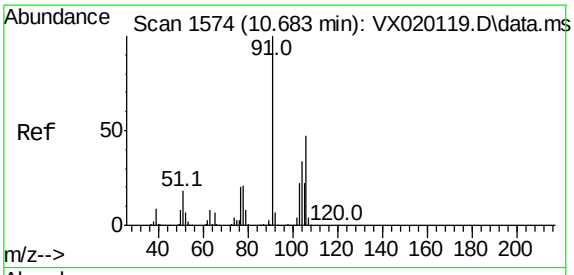
Tgt Ion:106 Resp: 205165

Ion	Ratio	Lower	Upper
106	100		
91	205.7	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

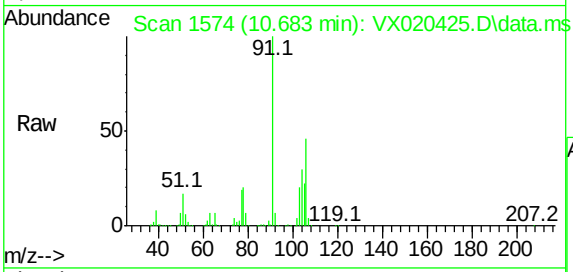
Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

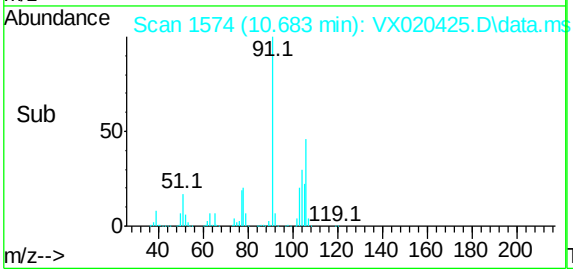


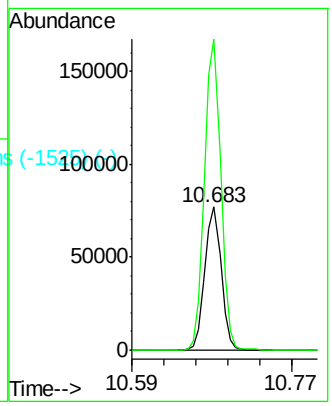
#69
o-Xylene
Concen: 20.93 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

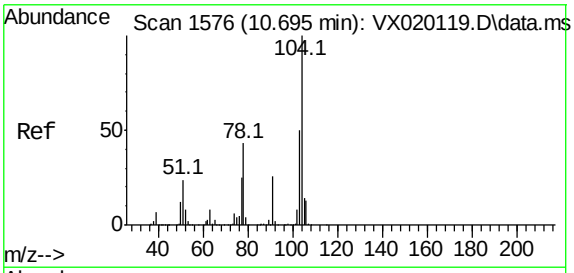
Tgt Ion:106 Resp: 98800

Ion	Ratio	Lower	Upper
106	100		
91	217.7	108.1	324.2





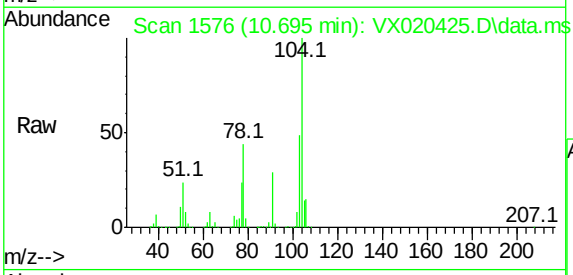


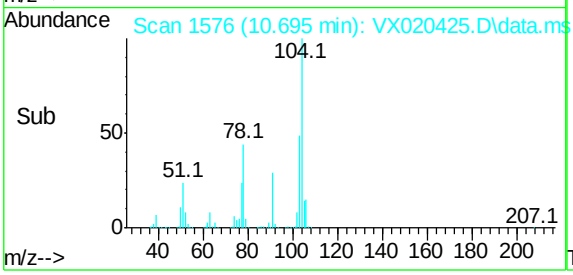


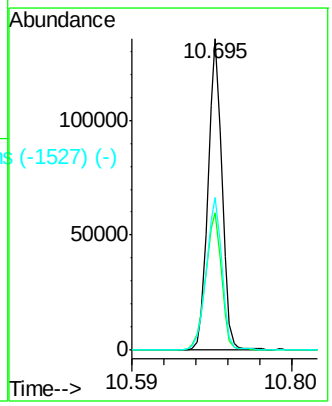
#70
Styrene
Concen: 21.32 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:104 Resp: 170138

Ion	Ratio	Lower	Upper
104	100		
78	49.9	40.0	60.0
103	54.3	43.4	65.0







Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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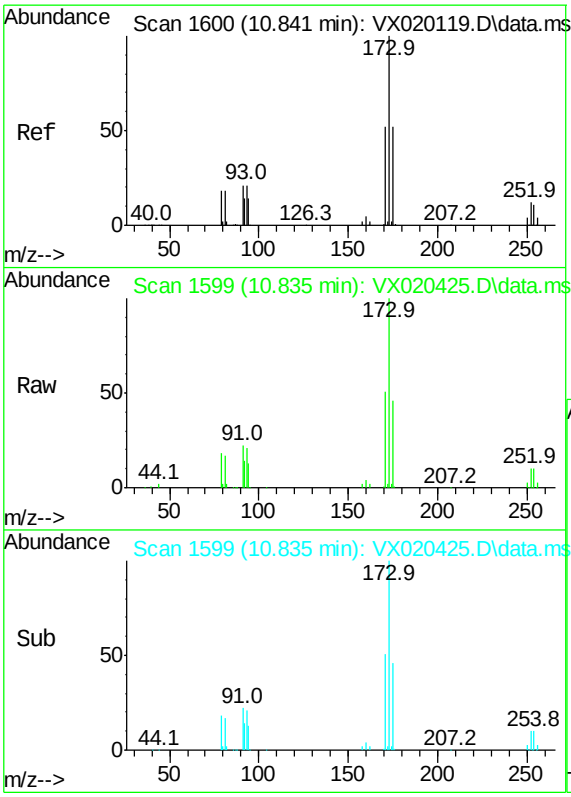
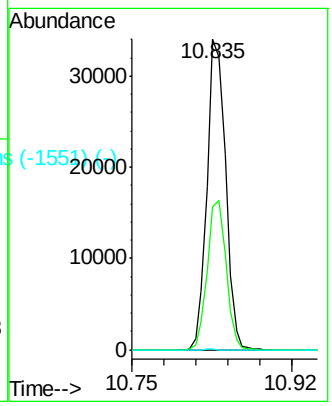
12/30/2020 2:23:47 PM

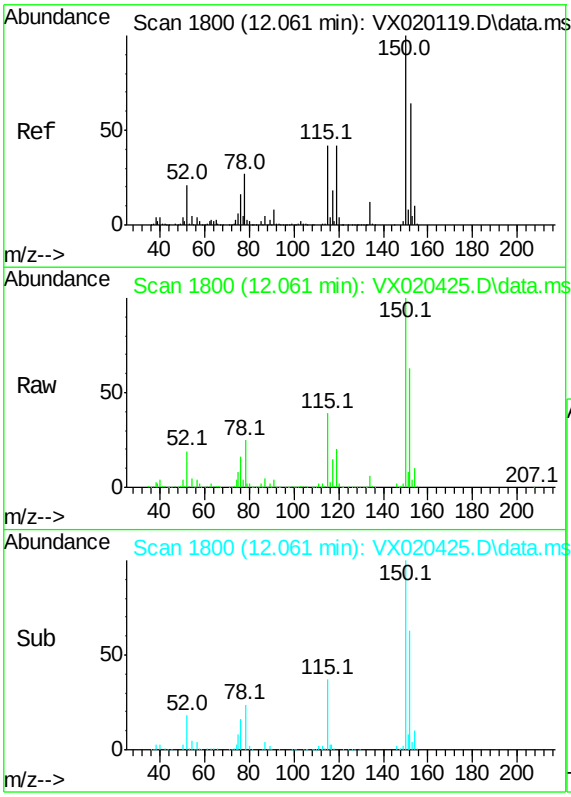


#71
Bromoform
Concen: 21.79 ug/l
RT: 10.835 min Scan# 1599
Delta R.T. -0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:173 Resp: 45510

Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.9	71.8
254	0.1	0.1	0.1

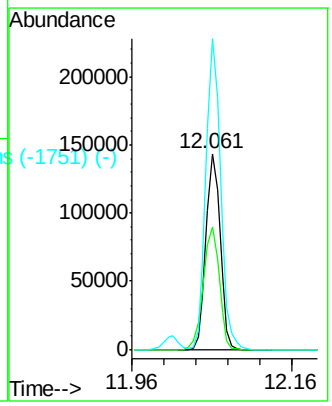




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

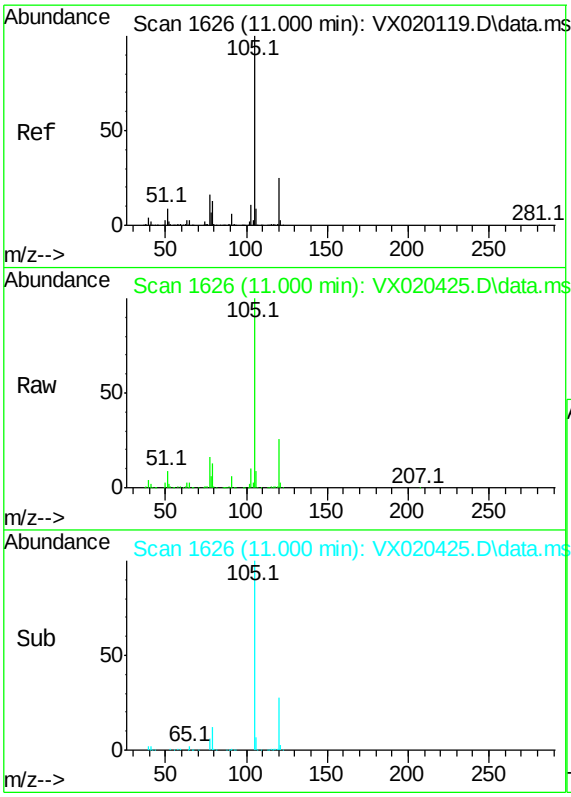
Tgt Ion:152 Resp: 175878

Ion	Ratio	Lower	Upper
152	100		
115	70.0	41.1	123.3
150	164.1	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

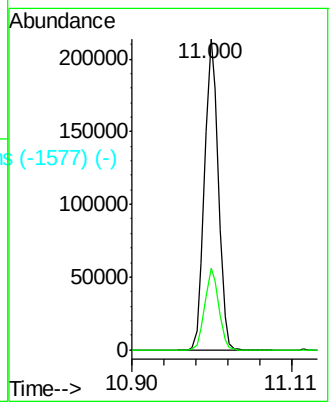
Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

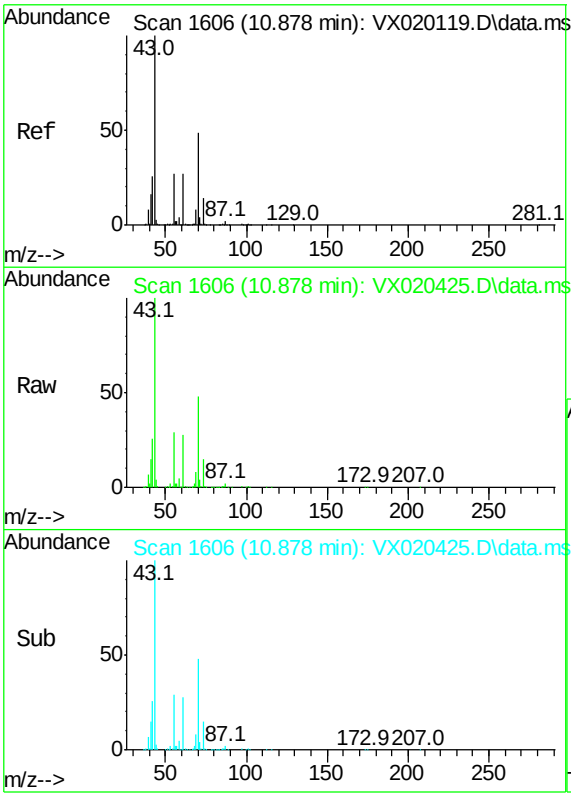


#73
Isopropylbenzene
Concen: 21.02 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:105 Resp: 266809

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6

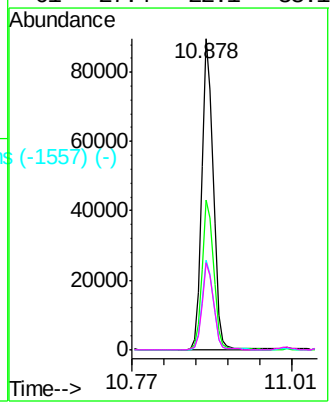




#74
N-amyl acetate
Concen: 20.74 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 43 Resp: 106119

Ion	Ratio	Lower	Upper
43	100		
70	48.4	39.0	58.6
55	28.5	21.5	32.3
61	27.4	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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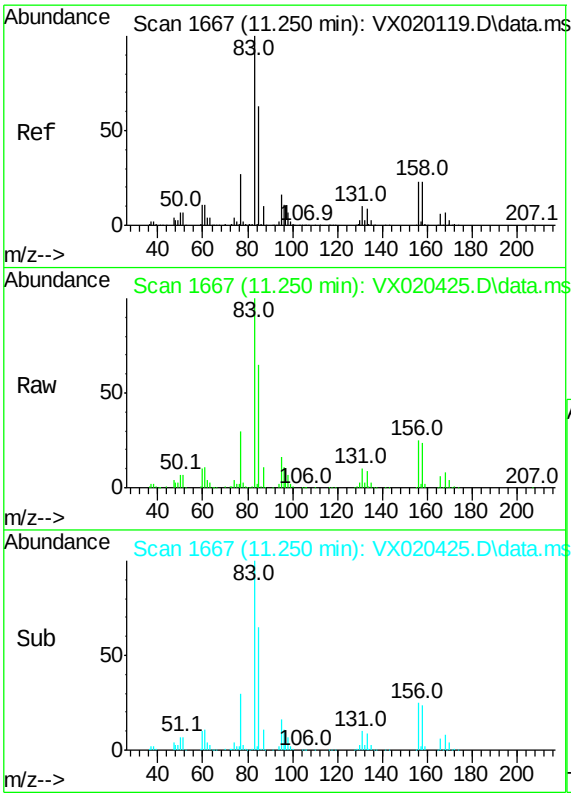
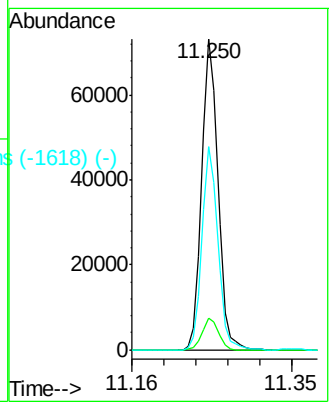
12/30/2020 2:23:47 PM

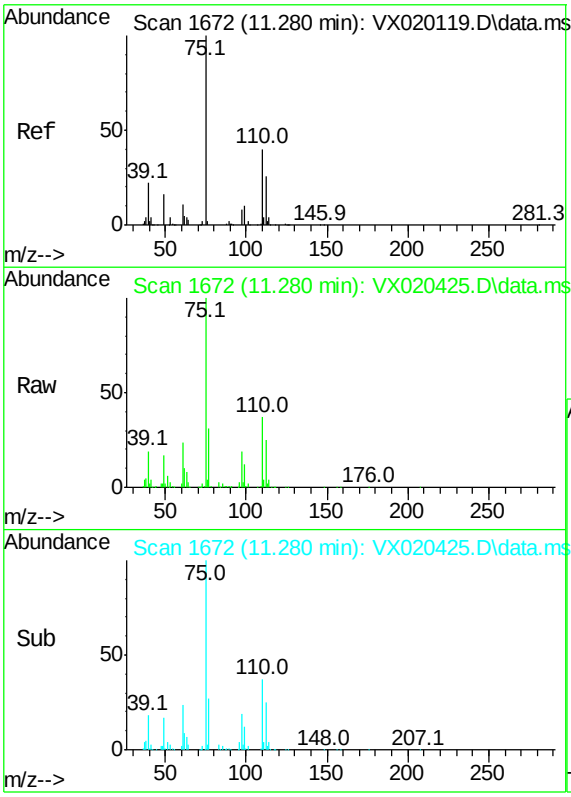


#75
1,1,2,2-Tetrachloroethane
Concen: 20.53 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 83 Resp: 94616

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.2
85	64.1	31.8	95.4

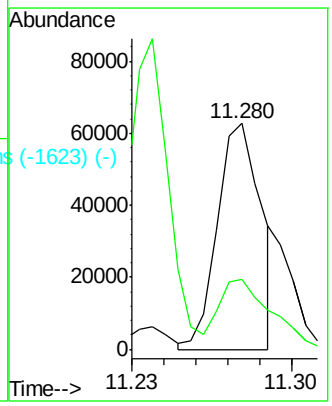




#76
1,2,3-Trichloropropane
Concen: 20.88 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 75 Resp: 90471

Ion	Ratio	Lower	Upper
75	100		
77	37.3	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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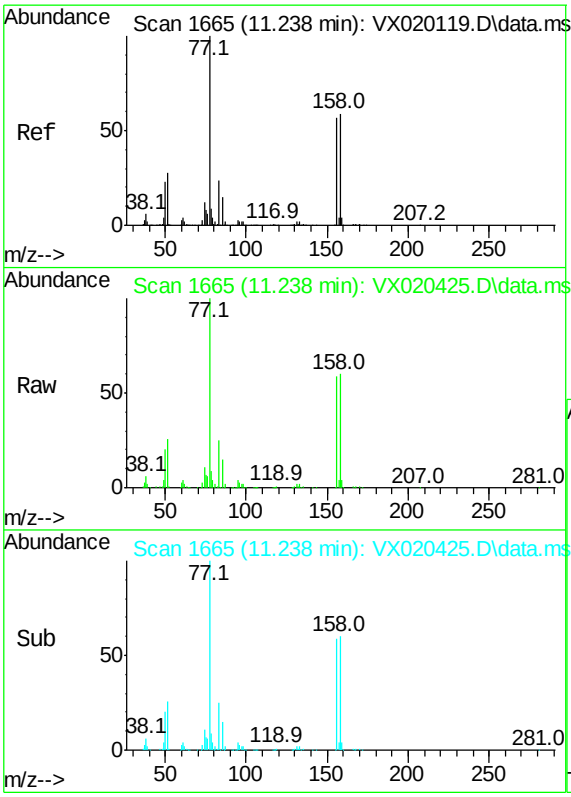
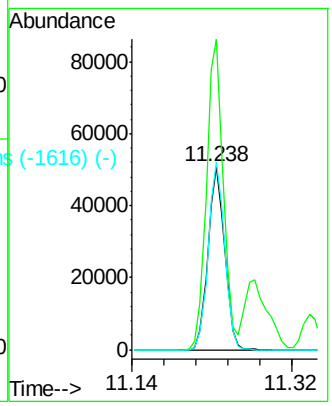
12/30/2020 2:23:47 PM

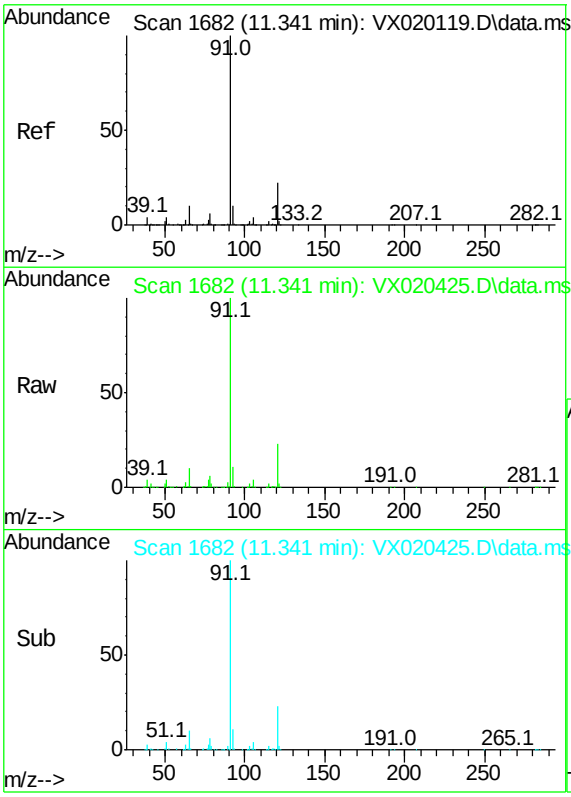


#77
Bromobenzene
Concen: 19.67 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:156 Resp: 65990

Ion	Ratio	Lower	Upper
156	100		
77	171.5	82.8	248.6
158	100.7	49.1	147.4

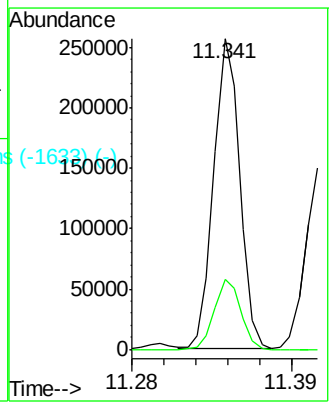




#78
n-propylbenzene
Concen: 20.78 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 91 Resp: 303988

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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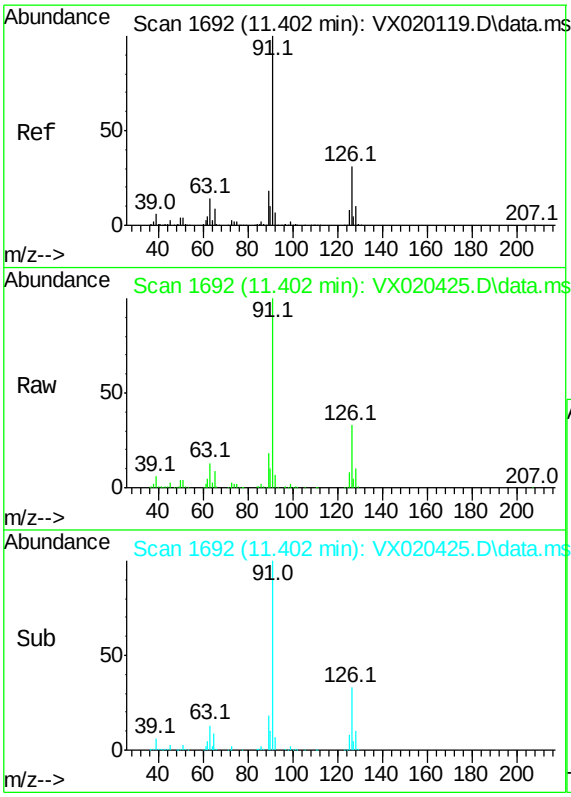
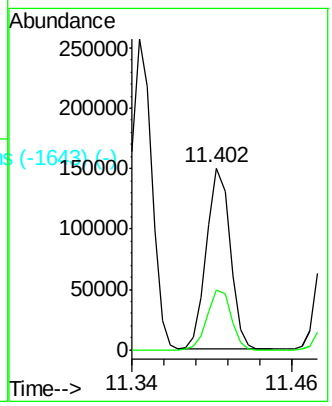
12/30/2020 2:23:47 PM

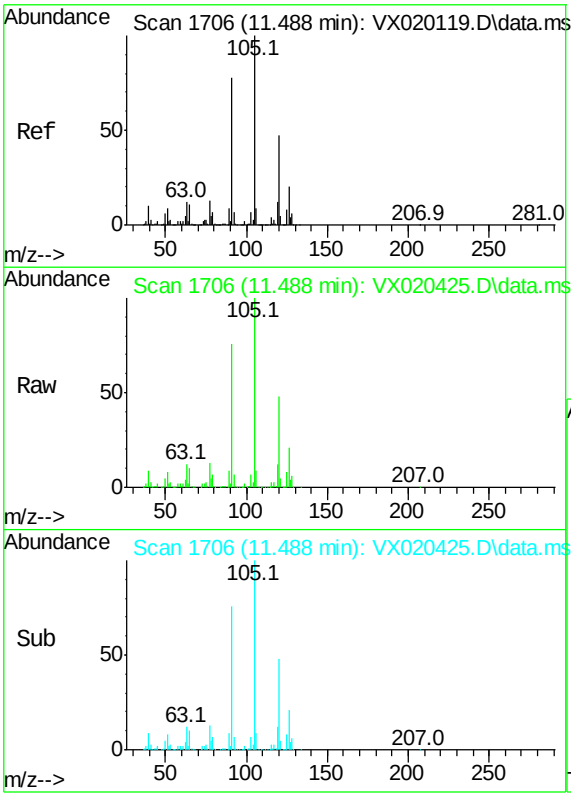


#70
2-Chlorotoluene
Concen: 20.73 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 91 Resp: 189094

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.6	49.8

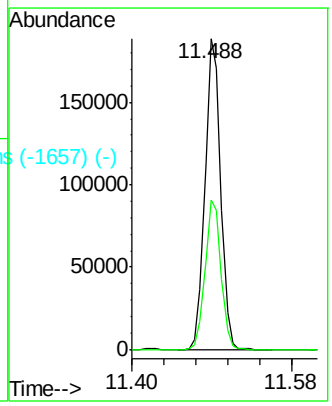




#89
1,3,5-Trimethylbenzene
Concen: 21.33 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:105 Resp: 229458

Ion	Ratio	Lower	Upper
105	100		
120	48.8	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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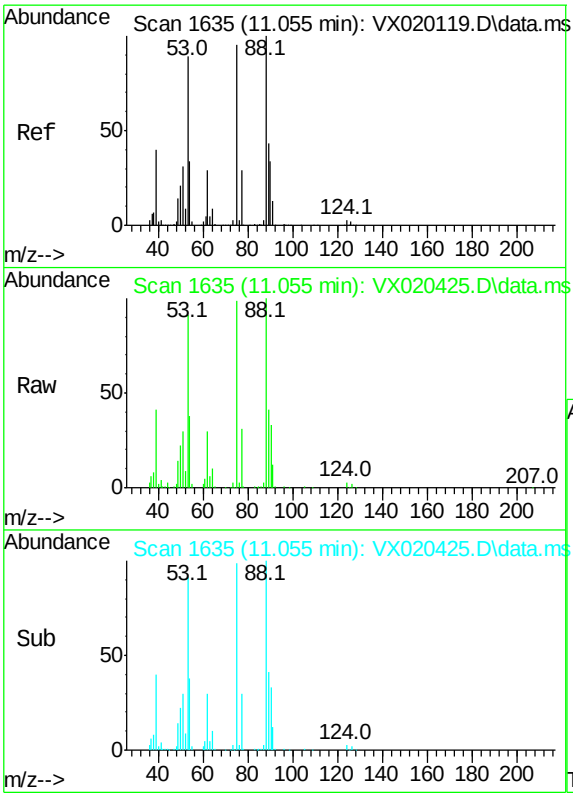
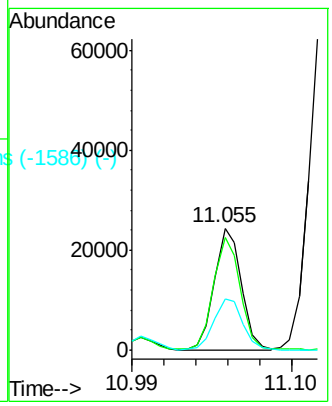
12/30/2020 2:23:47 PM

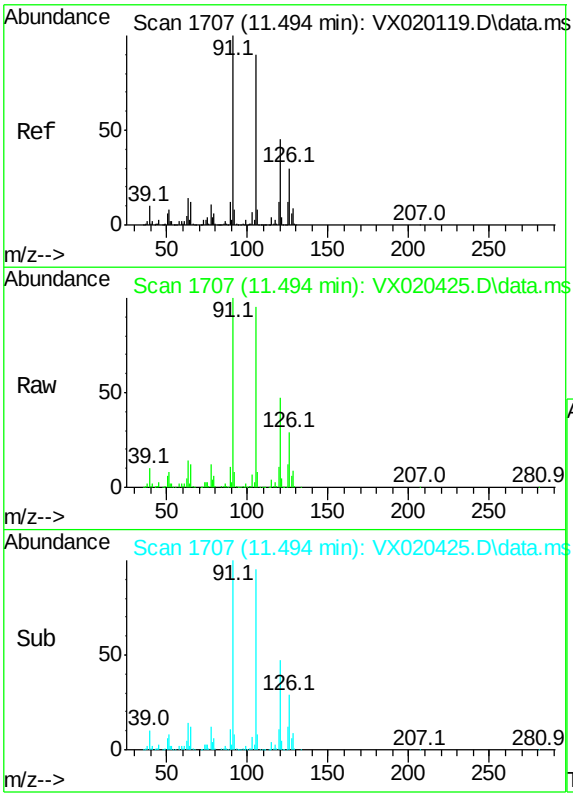


#81
trans-1,4-Dichloro-2-butene
Concen: 20.15 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 75 Resp: 29426

Ion	Ratio	Lower	Upper
75	100		
53	92.5	74.5	111.7
89	44.7	37.9	56.9

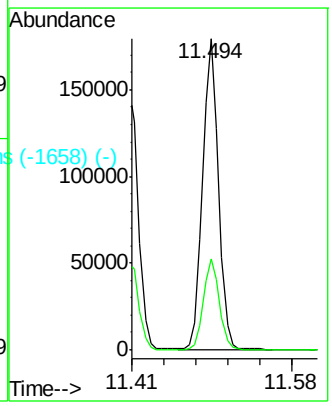




#88
4-Chlorotoluene
Concen: 20.66 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 91 Resp: 220075

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.9	44.5



Instrument :
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ClientSampleId :
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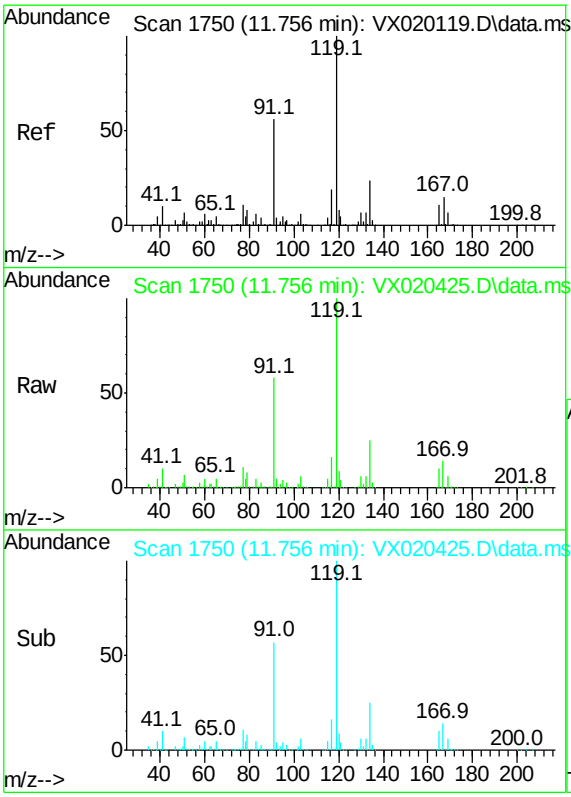
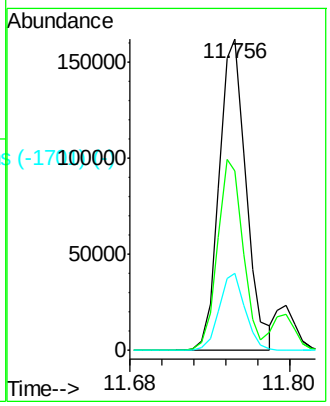
12/30/2020 2:23:47 PM

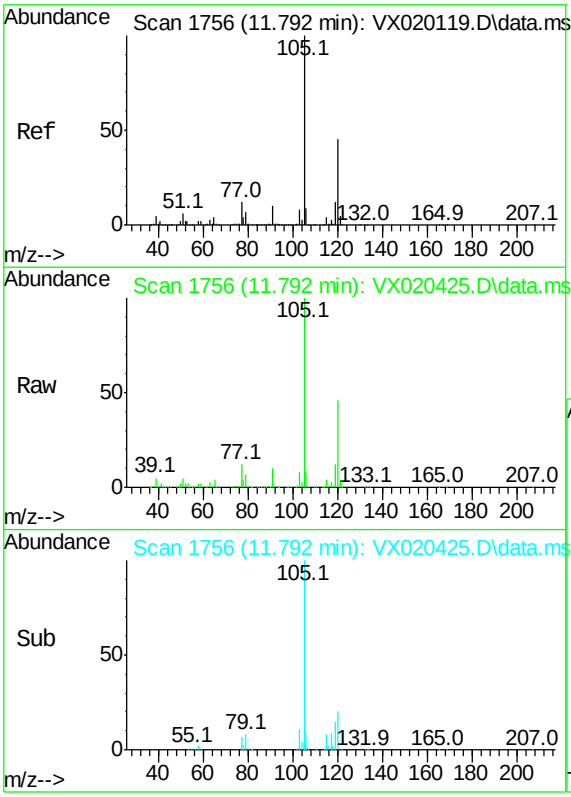


#83
tert-Butylbenzene
Concen: 21.19 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:119 Resp: 218772

Ion	Ratio	Lower	Upper
119	100		
91	57.7	27.9	83.7
134	23.3	11.3	33.9

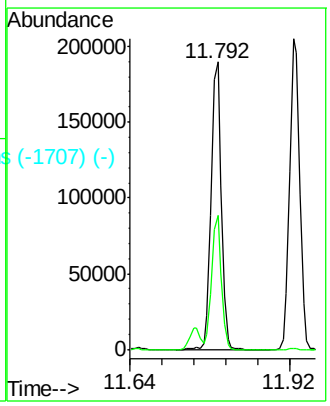




#84
1,2,4-Trimethylbenzene
Concen: 21.44 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:105 Resp: 234104

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.3



Instrument :
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ClientSampleId :
VX1229WBS01

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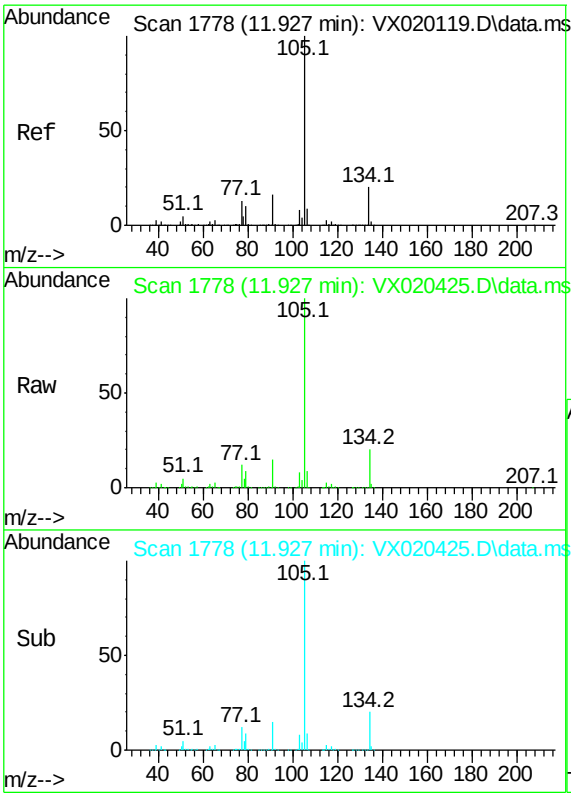
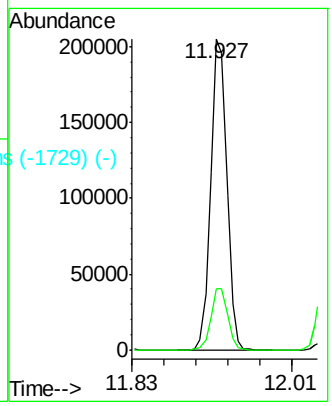
12/30/2020 2:23:47 PM

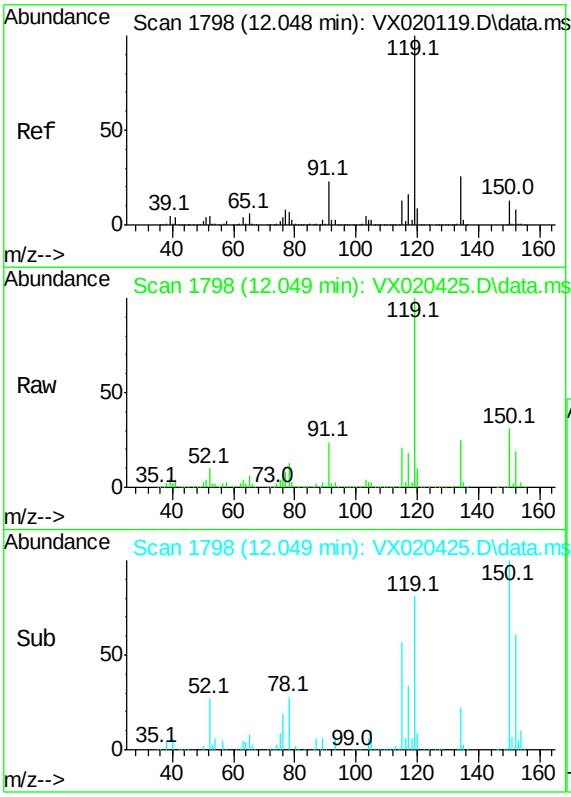


#85
sec-Butylbenzene
Concen: 21.55 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:105 Resp: 256810

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	29.8

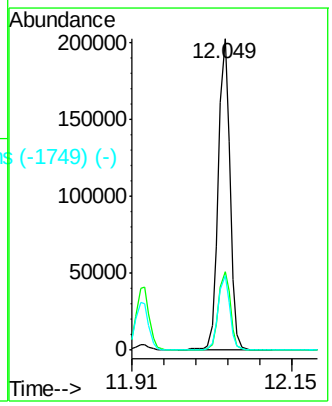




#86
p-Isopropyltoluene
Concen: 21.38 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.001 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:119 Resp: 234973

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.7
91	23.9	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
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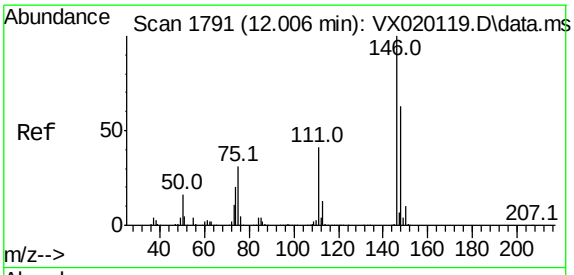
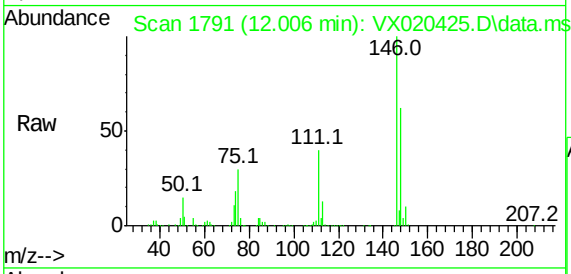
12/30/2020 2:23:47 PM

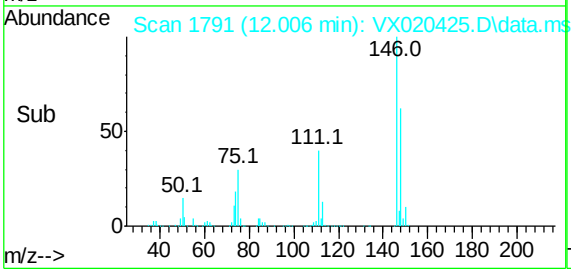


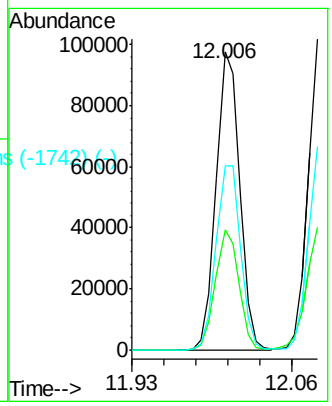
#87
1,3-Dichlorobenzene
Concen: 20.41 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

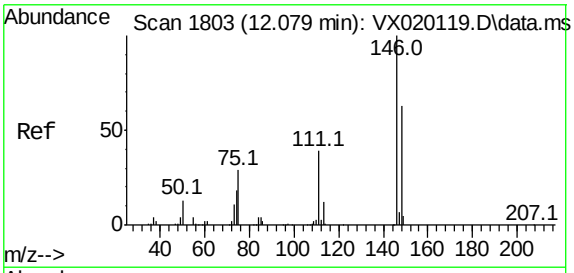
Tgt Ion:146 Resp: 122420

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.2	60.5
148	64.4	31.9	95.7





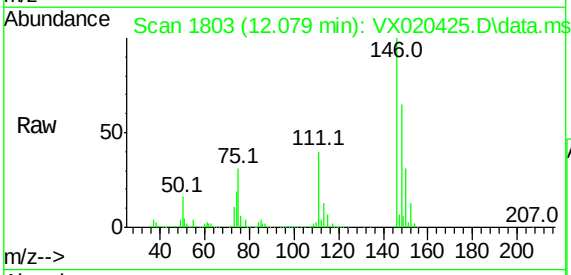


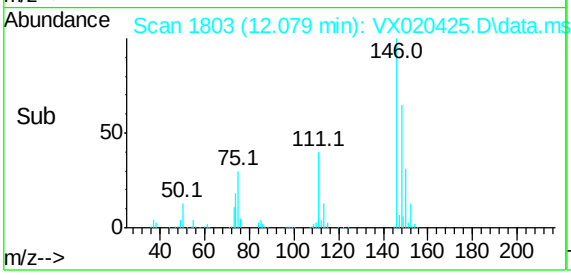


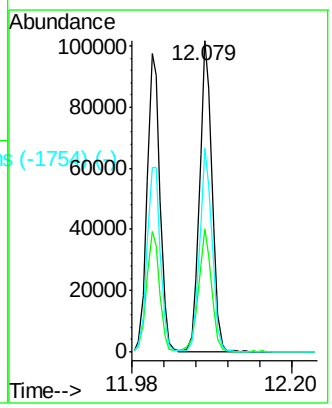
#88
1,4-Dichlorobenzene
Concen: 19.75 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:146 Resp: 123609

Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.6	58.8
148	65.0	31.6	95.0







Instrument :
MSVOA_X
ClientSampleId :
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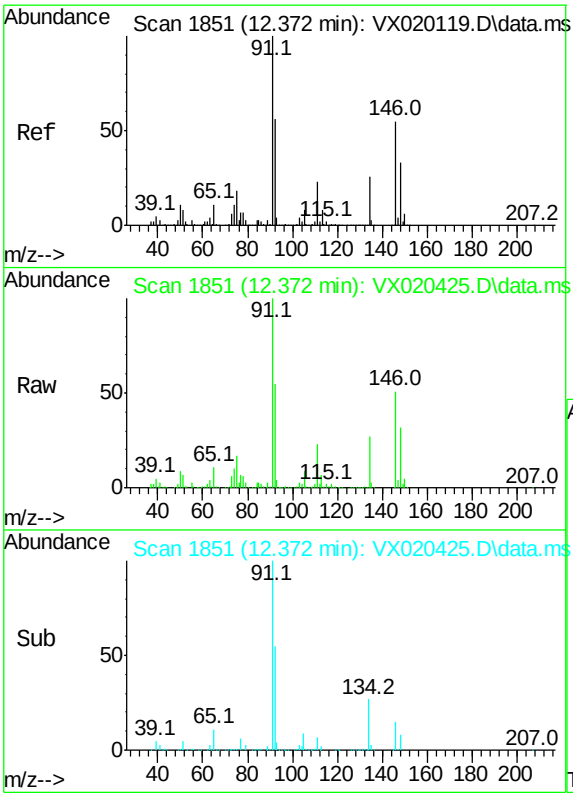
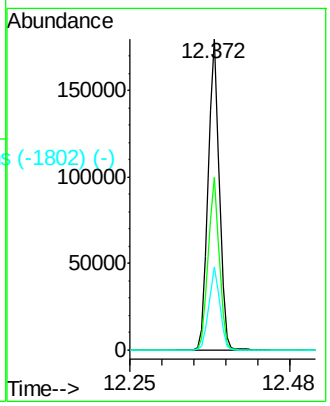
12/30/2020 2:23:47 PM

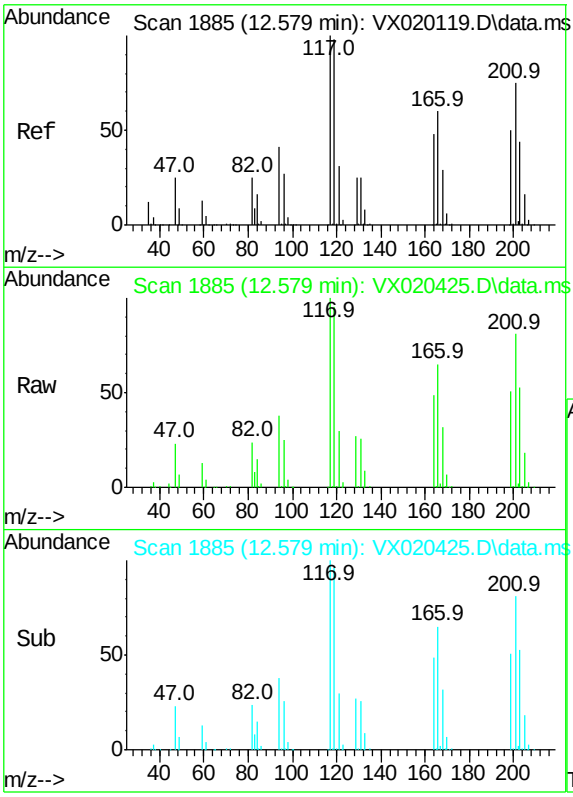


#89
n-Butylbenzene
Concen: 20.76 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 91 Resp: 199856

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.4	82.0
134	26.3	13.2	39.5

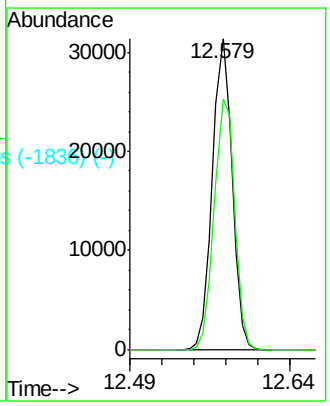




#90
Hexachloroethane
Concen: 20.61 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:117 Resp: 39077

Ion	Ratio	Lower	Upper
117	100		
201	84.3	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

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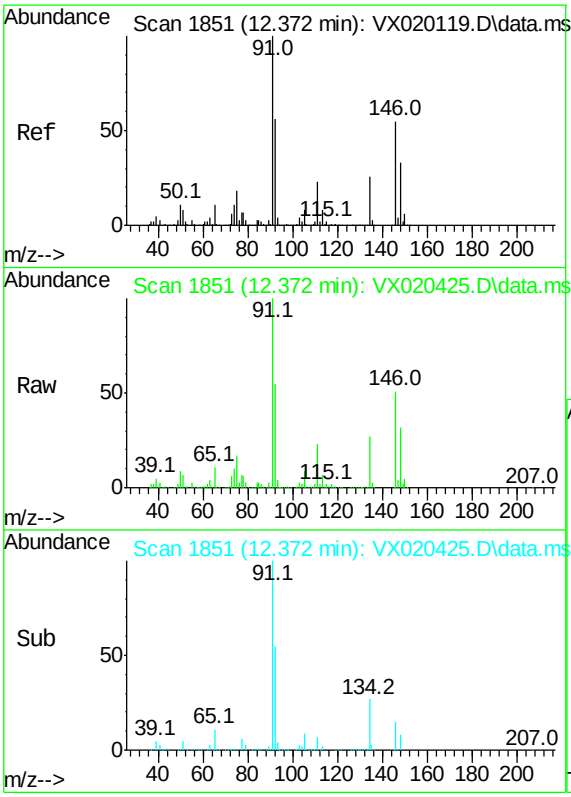
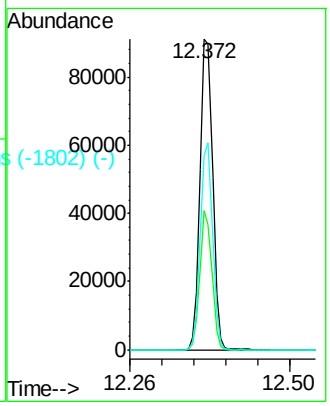
12/30/2020 2:23:47 PM

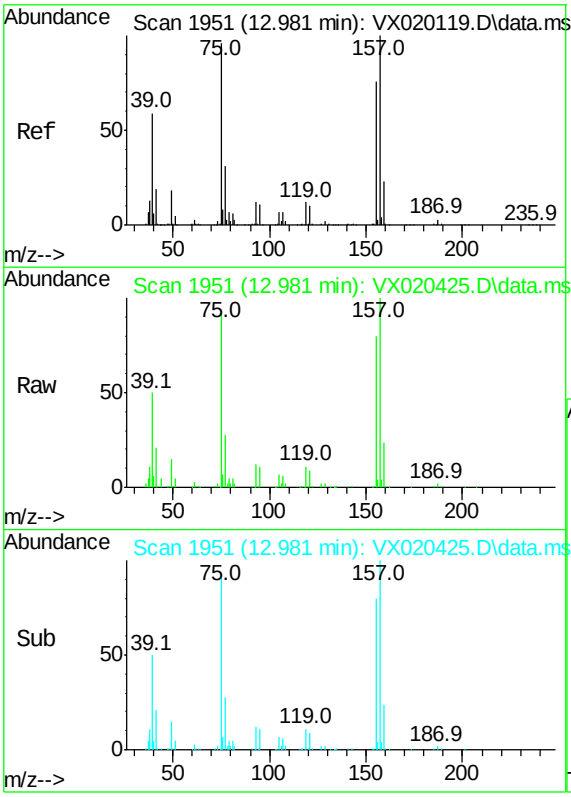


#91
1,2-Dichlorobenzene
Concen: 20.00 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:146 Resp: 119398

Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.8	62.2
148	64.2	31.9	95.5

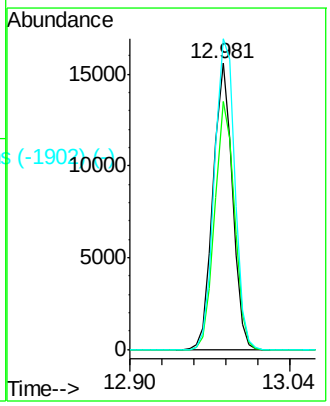




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.68 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion: 75 Resp: 19038

Ion	Ratio	Lower	Upper
75	100		
155	88.4	45.3	135.9
157	114.0	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
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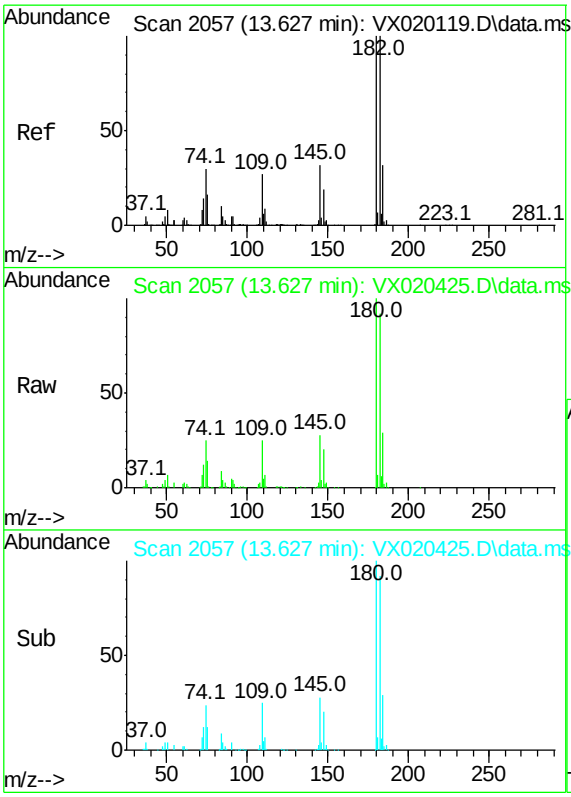
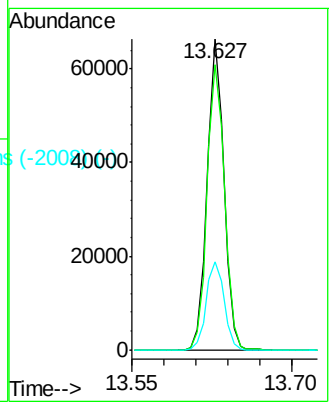
12/30/2020 2:23:47 PM

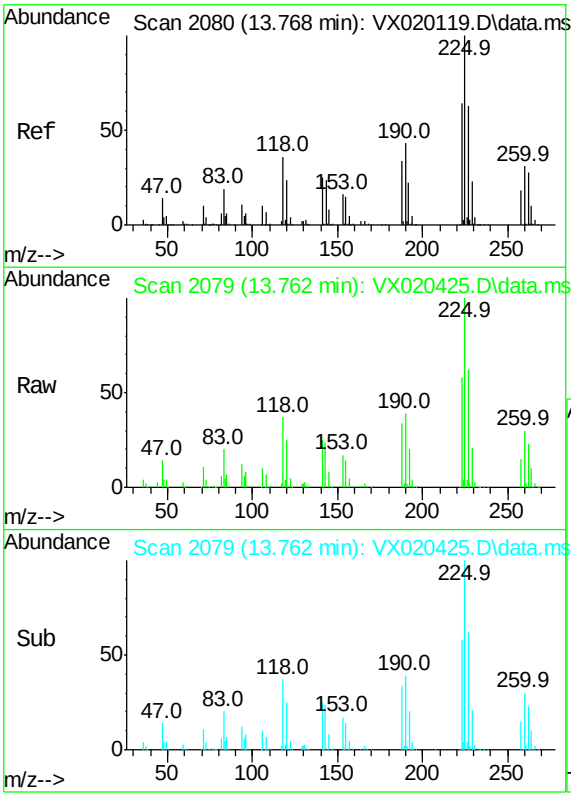


#93
1,2,4-Trichlorobenzene
Concen: 19.79 ug/l
RT: 13.627 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:180 Resp: 75956

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.7	143.1
145	30.1	15.0	45.0

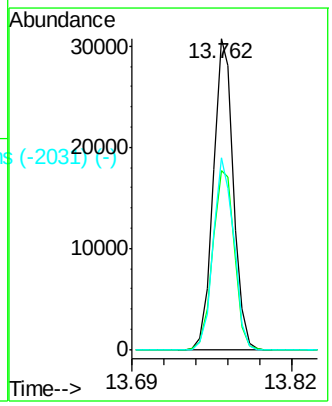




#94
Hexachlorobutadiene
Concen: 24.17 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

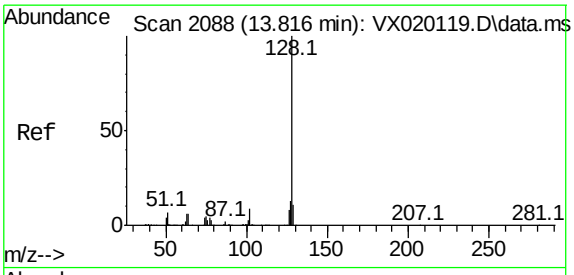
Tgt Ion:225 Resp: 36627

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.1	93.2
227	63.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX1229WBS01

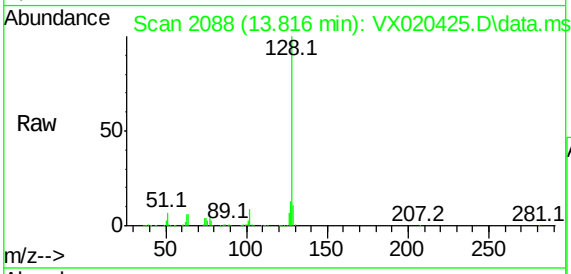
Manual Integrations APPROVED
SAM
12/30/2020 2:23:47 PM

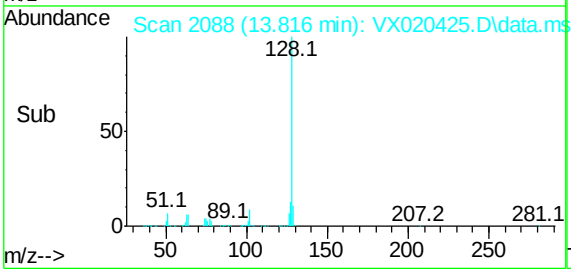


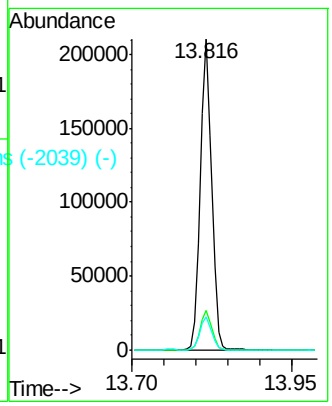
#95
Naphthalene
Concen: 20.56 ug/l
RT: 13.816 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

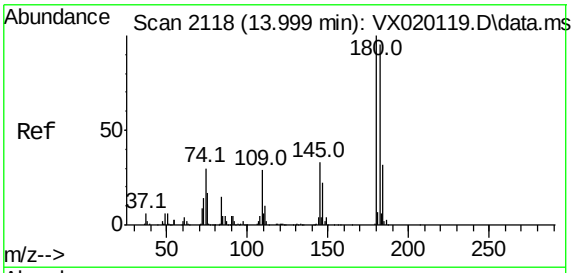
Tgt Ion:128 Resp: 249967

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.8	13.2





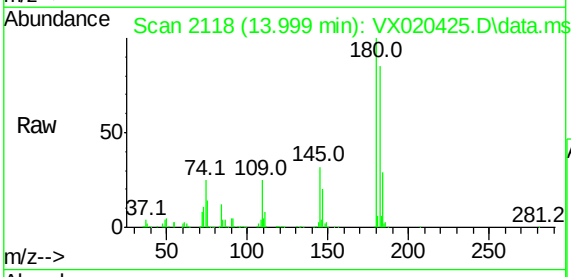


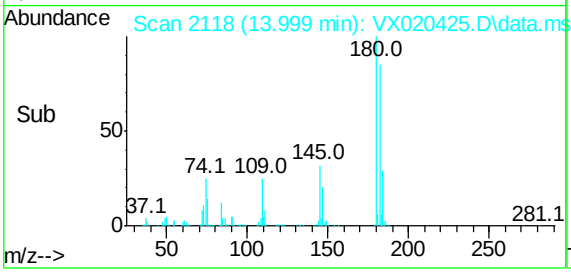


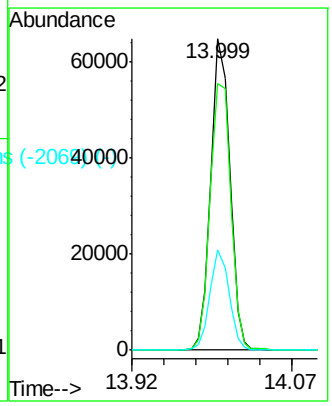
#96
1,2,3-Trichlorobenzene
Concen: 20.61 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020425.D
Acq: 29 Dec 2020 11:28

Tgt Ion:180 Resp: 78252

Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.6	142.9
145	32.0	16.1	48.3







CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)MS	SDG No.:	L5236
Lab Sample ID:	L5236-03MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020443.D	1		12/29/20 18:40	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	45.7		0.22	1.00	ug/L
74-87-3	Chloromethane	46.1		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	46.5		0.16	1.00	ug/L
74-83-9	Bromomethane	41.3		2.10	5.00	ug/L
75-00-3	Chloroethane	45.1		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	44.8		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	45.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	45.1		0.18	1.00	ug/L
67-64-1	Acetone	220		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	43.6		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	48.4		0.070	1.00	ug/L
79-20-9	Methyl Acetate	52.1		0.65	1.00	ug/L
75-09-2	Methylene Chloride	45.8		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	47.9		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	48.1		0.17	1.00	ug/L
110-82-7	Cyclohexane	49.0		1.20	5.00	ug/L
78-93-3	2-Butanone	260		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	49.6		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	80.1		0.30	1.00	ug/L
74-97-5	Bromochloromethane	46.6		0.31	1.00	ug/L
67-66-3	Chloroform	48.3		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	48.9		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	47.8		0.17	1.00	ug/L
71-43-2	Benzene	48.6		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	46.1		0.13	1.00	ug/L
79-01-6	Trichloroethene	86.1		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	50.6		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	50.8		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	270		0.85	5.00	ug/L
108-88-3	Toluene	50.0		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	49.3		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.5		0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)MS	SDG No.:	L5236
Lab Sample ID:	L5236-03MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020443.D	1		12/29/20 18:40	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	50.2		0.12	1.00	ug/L
591-78-6	2-Hexanone	280		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	52.6		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	50.0		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	120		0.15	1.00	ug/L
108-90-7	Chlorobenzene	48.4		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	50.3		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	99.9		0.20	2.00	ug/L
95-47-6	o-Xylene	49.6		0.13	1.00	ug/L
100-42-5	Styrene	51.6		0.11	1.00	ug/L
75-25-2	Bromoform	54.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	50.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.3		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	49.0		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	47.1		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	48.9		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	51.2		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	47.1		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	48.3		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		78 - 117	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.2		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	215000	5.629			
540-36-3	1,4-Difluorobenzene	356000	6.83			
3114-55-4	Chlorobenzene-d5	336000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	167000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)MS	SDG No.:	L5236
Lab Sample ID:	L5236-03MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020443.D	1		12/29/20 18:40	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020443.D
Acq On : 29 Dec 2020 18:40
Operator : JC/MD
Sample : L5236-03MS
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

Quant Time: Dec 30 02:39:46 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	215198	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	355700	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	336209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	167282	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	135219	46.88	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 93.76%			
35) Dibromofluoromethane	5.464	113	113502	49.88	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.76%			
50) Toluene-d8	8.695	98	439467	50.18	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 100.36%			
62) 4-Bromofluorobenzene	11.122	95	169967	50.70	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 101.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	106856	45.72	ug/l	100
3) Chloromethane	1.313	50	124808	46.05	ug/l	99
4) Vinyl Chloride	1.392	62	137218	46.48	ug/l	98
5) Bromomethane	1.617	94	39082	41.32	ug/l	96
6) Chloroethane	1.703	64	82904	45.10	ug/l	100
7) Trichlorofluoromethane	1.910	101	169964	44.77	ug/l	95
8) Diethyl Ether	2.166	74	73199	44.30	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.361	101	98237	45.73	ug/l	98
10) Methyl Iodide	2.489	142	130231	45.31	ug/l	99
11) Tert butyl alcohol	3.020	59	160655	248.71	ug/l	100
12) 1,1-Dichloroethene	2.349	96	99190	45.12	ug/l	96
13) Acrolein	2.270	56	83864	207.77	ug/l	99
14) Allyl chloride	2.703	41	186969	47.92	ug/l	91
15) Acrylonitrile	3.117	53	393533	264.81	ug/l	99
16) Acetone	2.422	43	295552	224.69	ug/l	94
17) Carbon Disulfide	2.544	76	282949	43.57	ug/l	100
18) Methyl Acetate	2.751	43	152915	52.12	ug/l	99
19) Methyl tert-butyl Ether	3.166	73	398178	48.39	ug/l	100
20) Methylene Chloride	2.831	84	135685	45.76	ug/l	99
21) trans-1,2-Dichloroethene	3.142	96	127688	47.87	ug/l	99
22) Diisopropyl ether	3.824	45	391980	49.23	ug/l	92
23) Vinyl Acetate	3.782	43	1579000	232.65	ug/l	98
24) 1,1-Dichloroethane	3.666	63	225784	48.14	ug/l	99
25) 2-Butanone	4.635	43	495573	258.86	ug/l	100
26) 2,2-Dichloropropane	4.550	77	157917	40.80	ug/l	94
27) cis-1,2-Dichloroethene	4.562	96	241139	80.10	ug/l	94
28) Bromochloromethane	4.977	49	97309	46.59	ug/l	98
29) Tetrahydrofuran	5.086	42	323597	268.68	ug/l	97
30) Chloroform	5.172	83	230378	48.25	ug/l	99
31) Cyclohexane	5.550	56	194778	48.97	ug/l	97
32) 1,1,1-Trichloroethane	5.458	97	194775	48.91	ug/l	99
36) 1,1-Dichloropropene	5.769	75	164054	46.67	ug/l	100
37) Ethyl Acetate	4.794	43	175956	48.16	ug/l	100
38) Carbon Tetrachloride	5.751	117	165819	49.59	ug/l	96
39) Methylcyclohexane	7.440	83	193915	47.79	ug/l	97
40) Benzene	6.111	78	532138	48.63	ug/l	99
41) Methacrylonitrile	5.001	41	102030	52.42	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020443.D
Acq On : 29 Dec 2020 18:40
Operator : JC/MD
Sample : L5236-03MS
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

Quant Time: Dec 30 02:39:46 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820w.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	6.159	62	173006	46.09	ug/l	98
43) Isopropyl Acetate	6.409	43	279330	48.43	ug/l	99
44) Trichloroethene	7.184	130	243515	86.09	ug/l	96
45) 1,2-Dichloropropane	7.488	63	139870	50.57	ug/l	99
46) Dibromomethane	7.635	93	90085	47.62	ug/l	99
47) Bromodichloromethane	7.872	83	183291	50.82	ug/l	100
48) Methyl methacrylate	7.744	41	146681	51.90	ug/l	96
49) 1,4-Dioxane	7.714	88	75907	1147.34	ug/l	96
51) 4-Methyl-2-Pentanone	8.622	43	974262	272.86	ug/l	99
52) Toluene	8.763	92	333837	49.99	ug/l	100
53) t-1,3-Dichloropropene	9.019	75	195477	49.27	ug/l	100
54) cis-1,3-Dichloropropene	8.415	75	211098	48.47	ug/l	96
55) 1,1,2-Trichloroethane	9.195	97	138242	50.19	ug/l	98
56) Ethyl methacrylate	9.159	69	213447	52.95	ug/l	96
57) 1,3-Dichloropropane	9.354	76	233875	49.88	ug/l	100
59) 2-Hexanone	9.470	43	748607	275.13	ug/l	100
60) Dibromochloromethane	9.561	129	143845	52.63	ug/l	99
61) 1,2-Dibromoethane	9.653	107	143733	49.98	ug/l	99
64) Tetrachloroethene	9.317	164	298907	118.00	ug/l	97
65) Chlorobenzene	10.122	112	348928	48.37	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.201	131	133342	51.52	ug/l	99
67) Ethyl Benzene	10.232	91	634481	50.32	ug/l	99
68) m/p-Xylenes	10.342	106	470203	99.89	ug/l	98
69) o-Xylene	10.683	106	224721	49.60	ug/l	97
70) Styrene	10.695	104	395421	51.63	ug/l	99
71) Bromoform	10.841	173	109429	54.59	ug/l	100
73) Isopropylbenzene	11.000	105	610089	50.53	ug/l	100
74) N-amyl acetate	10.878	43	235761	48.45	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.250	83	225041	51.33	ug/l	99
76) 1,2,3-Trichloropropane	11.280	75	209467m	50.83	ug/l	
77) Bromobenzene	11.238	156	156347	48.99	ug/l	99
78) n-propylbenzene	11.341	91	698986	50.24	ug/l	99
79) 2-Chlorotoluene	11.402	91	427623	49.29	ug/l	99
80) 1,3,5-Trimethylbenzene	11.488	105	517379	50.56	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.055	75	70104	50.47	ug/l	96
82) 4-Chlorotoluene	11.494	91	496932	49.04	ug/l	99
83) tert-Butylbenzene	11.756	119	501483	51.06	ug/l	99
84) 1,2,4-Trimethylbenzene	11.792	105	536920	51.69	ug/l	99
85) sec-Butylbenzene	11.927	105	580096	51.19	ug/l	100
86) p-Isopropyltoluene	12.049	119	532101	50.91	ug/l	100
87) 1,3-Dichlorobenzene	12.006	146	279596	49.01	ug/l	100
88) 1,4-Dichlorobenzene	12.079	146	280258	47.09	ug/l	99
89) n-Butylbenzene	12.372	91	451890	49.35	ug/l	99
90) Hexachloroethane	12.579	117	92465	51.28	ug/l	99
91) 1,2-Dichlorobenzene	12.372	146	277700	48.92	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	47101	51.19	ug/l	99
93) 1,2,4-Trichlorobenzene	13.628	180	172075	47.13	ug/l	98
94) Hexachlorobutadiene	13.762	225	80473	52.37	ug/l	98
95) Naphthalene	13.816	128	593432	51.33	ug/l	100
96) 1,2,3-Trichlorobenzene	13.999	180	174382	48.28	ug/l	97

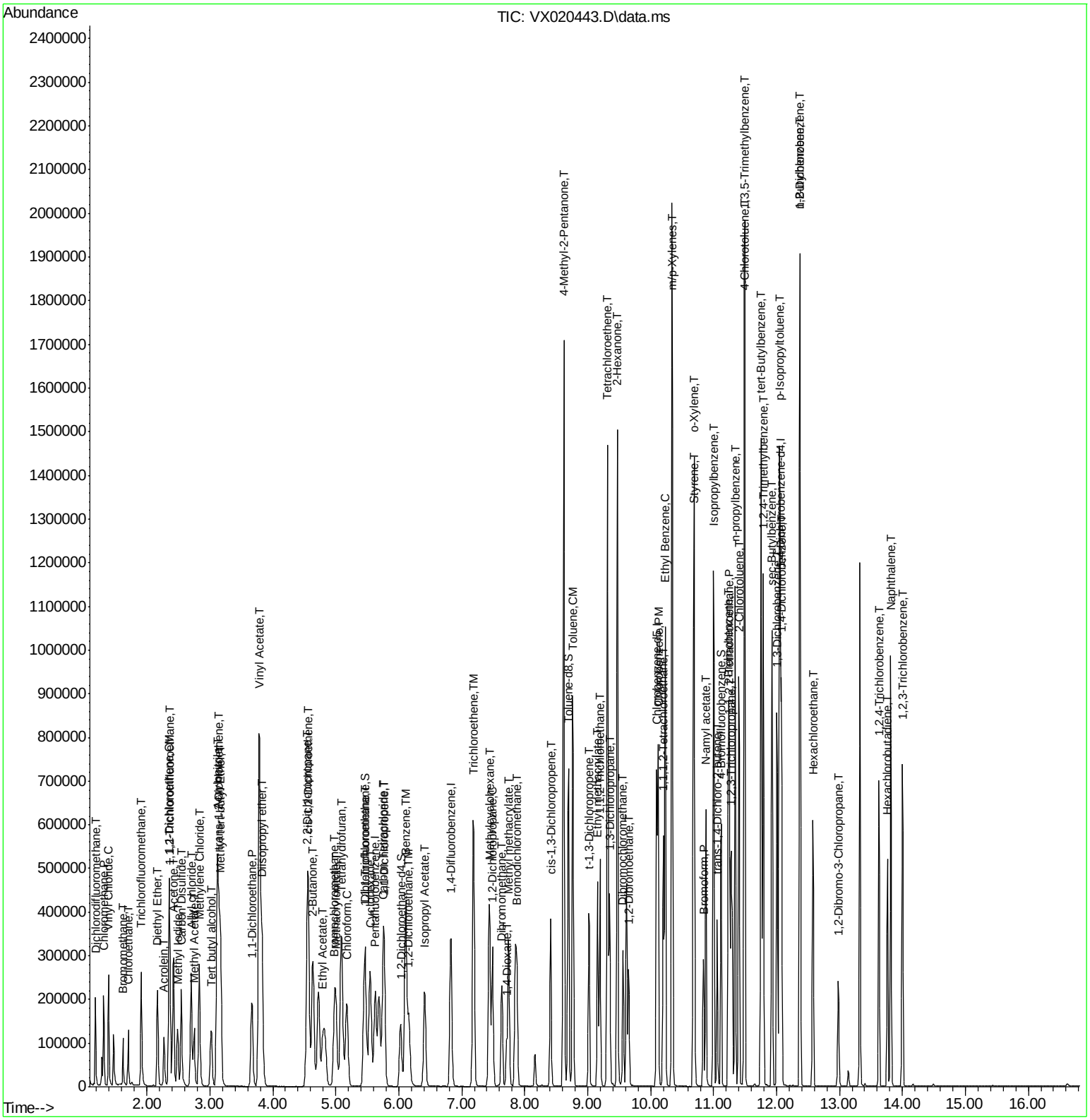
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020443.D
Acq On : 29 Dec 2020 18:40
Operator : JC/MD
Sample : L5236-03MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 30 02:39:46 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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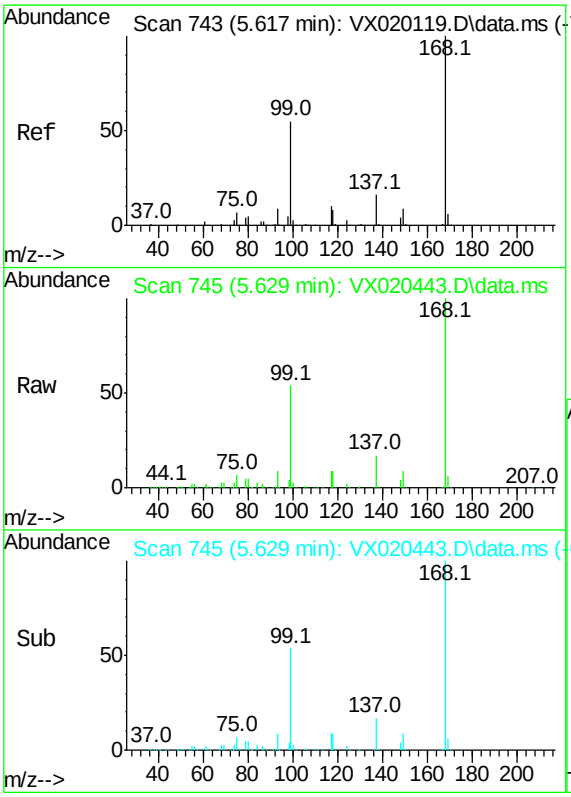
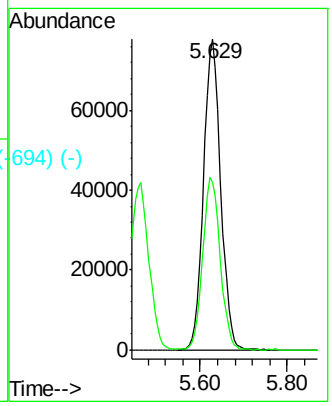
12/30/2020 2:24:00 PM

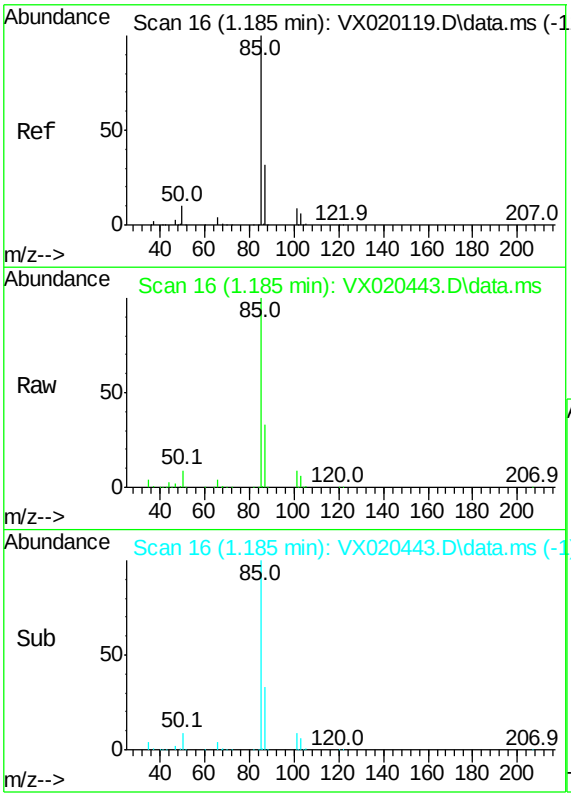


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:168 Resp: 215198

Ion	Ratio	Lower	Upper
168	100		
99	53.7	45.8	68.6

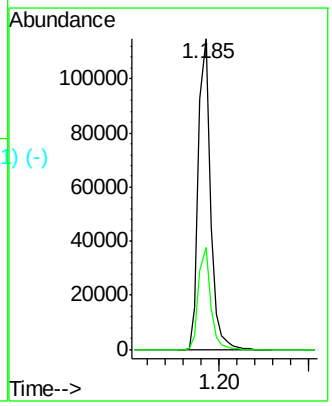




#2
Dichlorodifluoromethane
Concen: 45.72 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

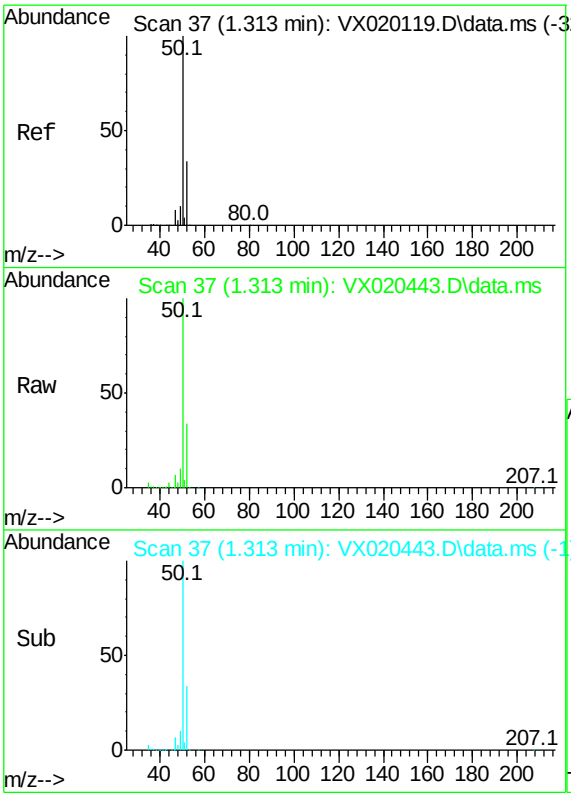
Tgt Ion: 85 Resp: 106856

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

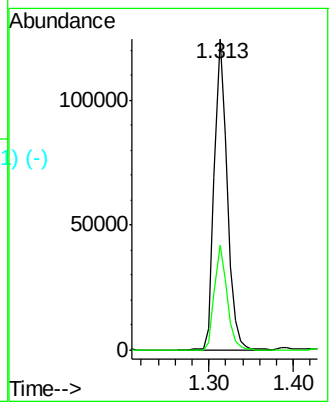
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

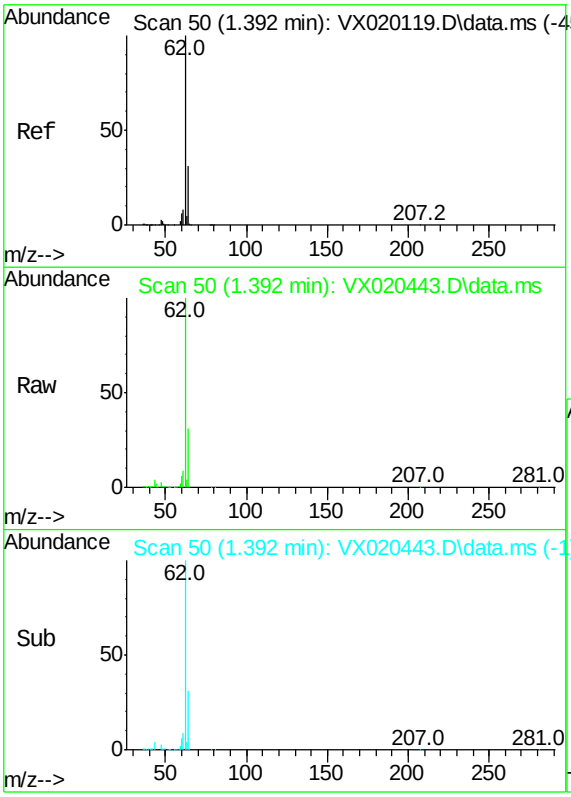


#3
Chloromethane
Concen: 46.05 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 50 Resp: 124808

Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.4	39.6

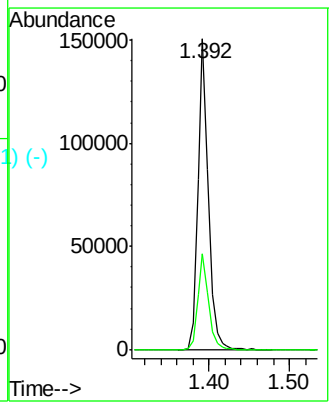




#4
Vinyl Chloride
Concen: 46.48 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

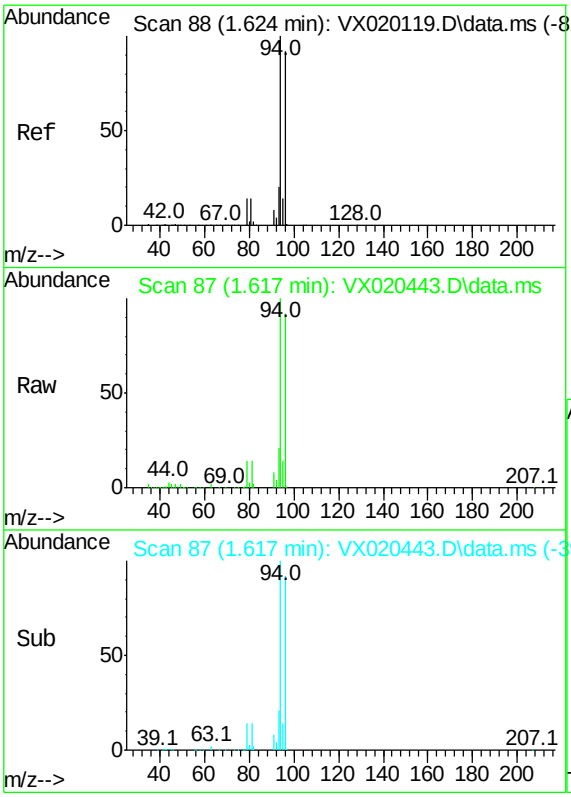
Tgt Ion: 62 Resp: 137218

Ion	Ratio	Lower	Upper
62	100		
64	30.8	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

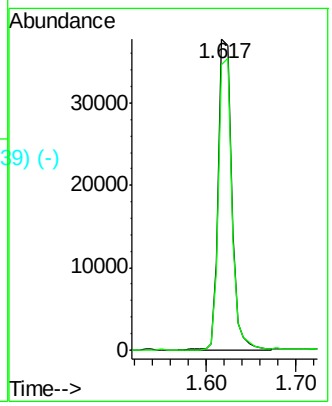
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

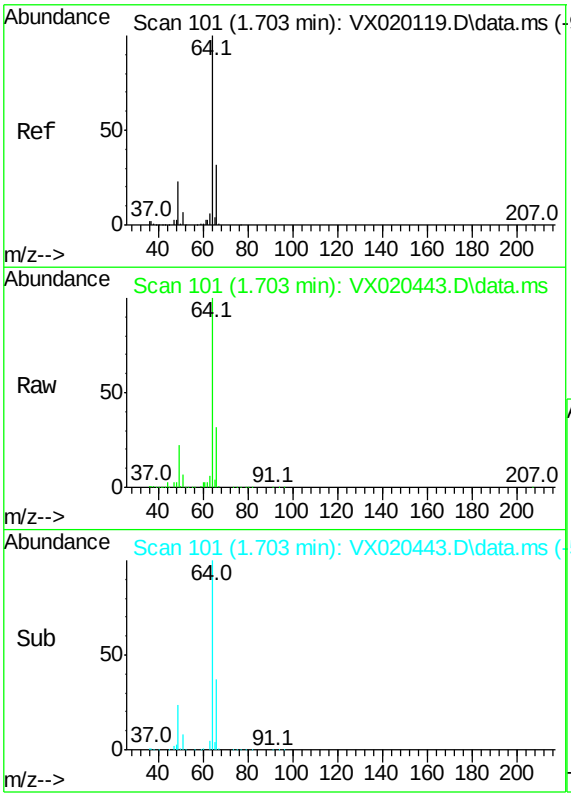


#5
Bromomethane
Concen: 41.32 ug/l
RT: 1.617 min Scan# 87
Delta R.T. -0.007 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 94 Resp: 39082

Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.4	114.6

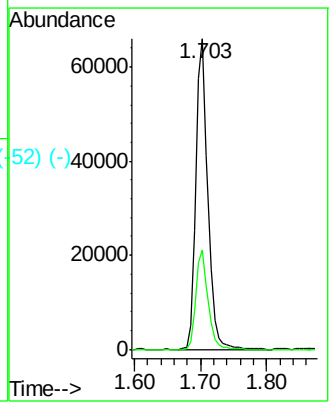




#6
Chloroethane
Concen: 45.10 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

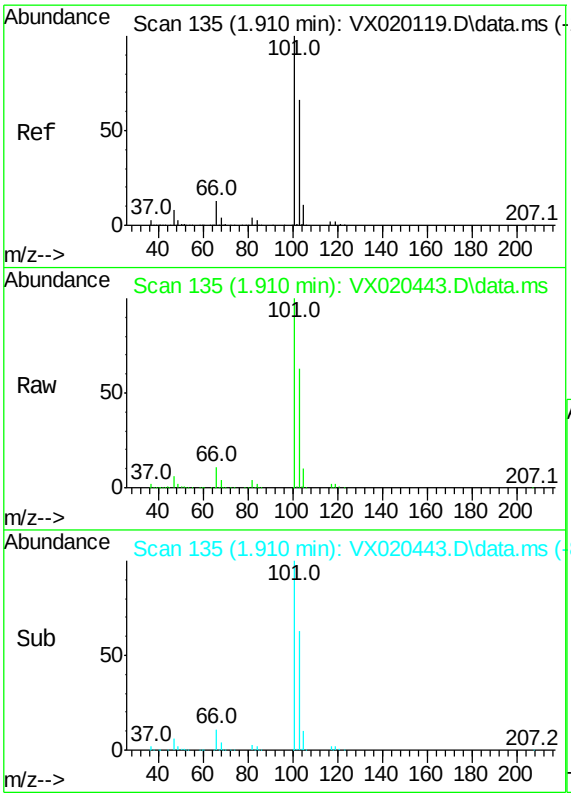
Tgt Ion: 64 Resp: 82904

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

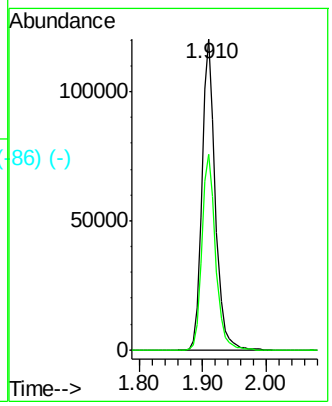
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

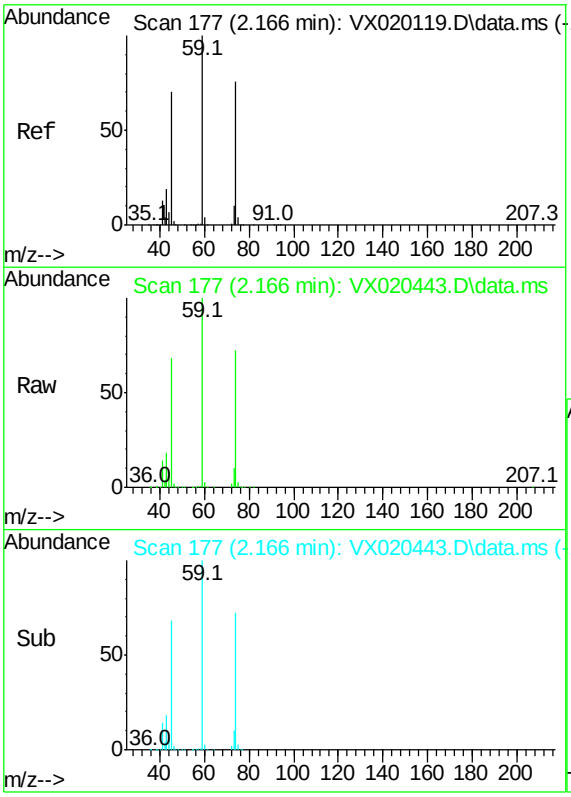


#7
Trichlorofluoromethane
Concen: 44.77 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:101 Resp: 169964

Ion	Ratio	Lower	Upper
101	100		
103	62.8	53.2	79.8

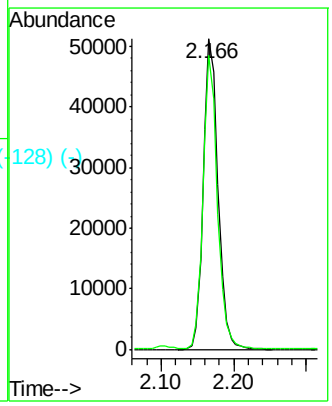




#8
Diethyl Ether
Concen: 44.30 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

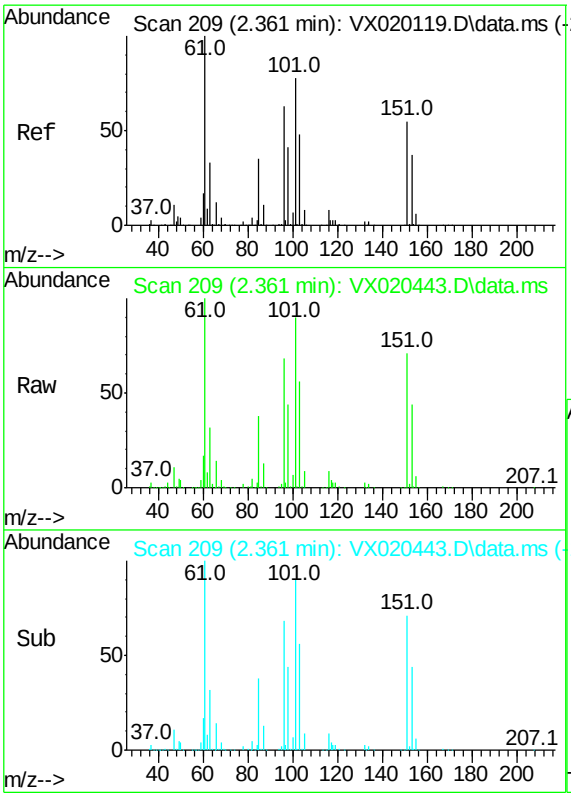
Tgt Ion: 74 Resp: 73199

Ion	Ratio	Lower	Upper
74	100		
45	92.2	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

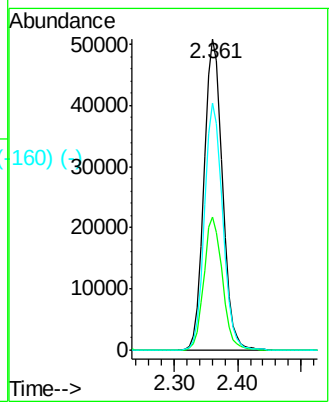
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

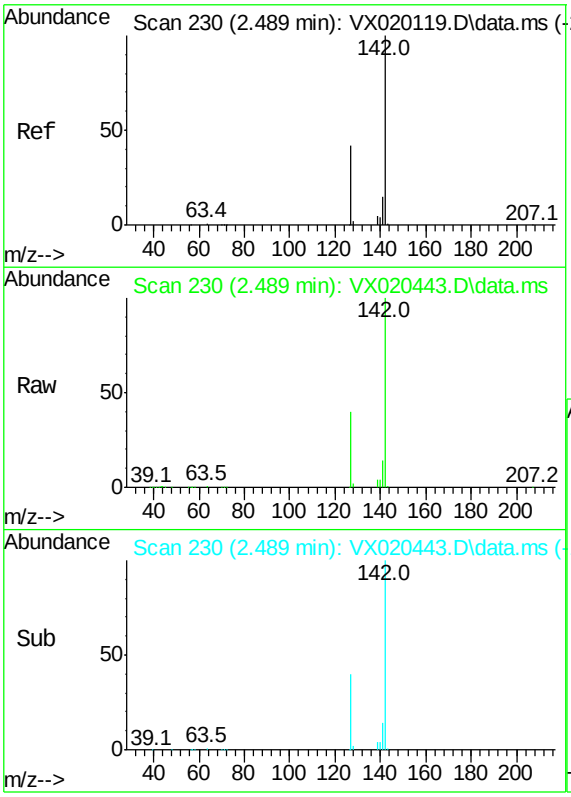


#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.73 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:101 Resp: 98237

Ion	Ratio	Lower	Upper
101	100		
85	42.7	34.9	52.3
151	78.3	61.4	92.2

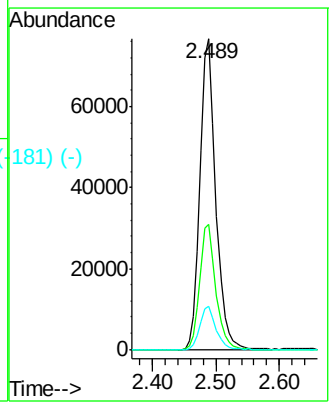




#10
Methyl Iodide
Concen: 45.31 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

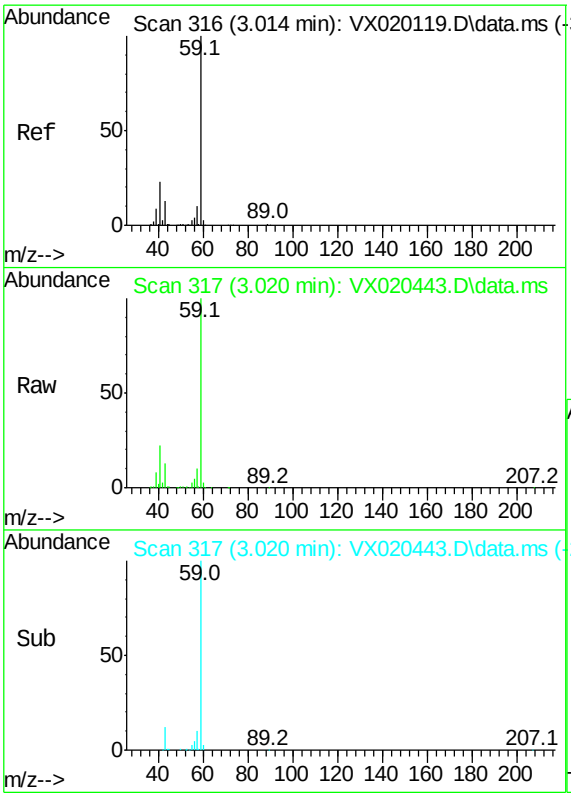
Tgt Ion:142 Resp: 130231

Ion	Ratio	Lower	Upper
142	100		
127	40.9	33.3	49.9
141	14.0	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

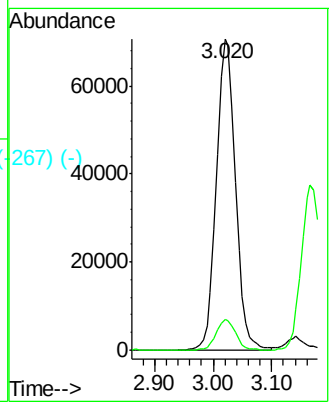
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

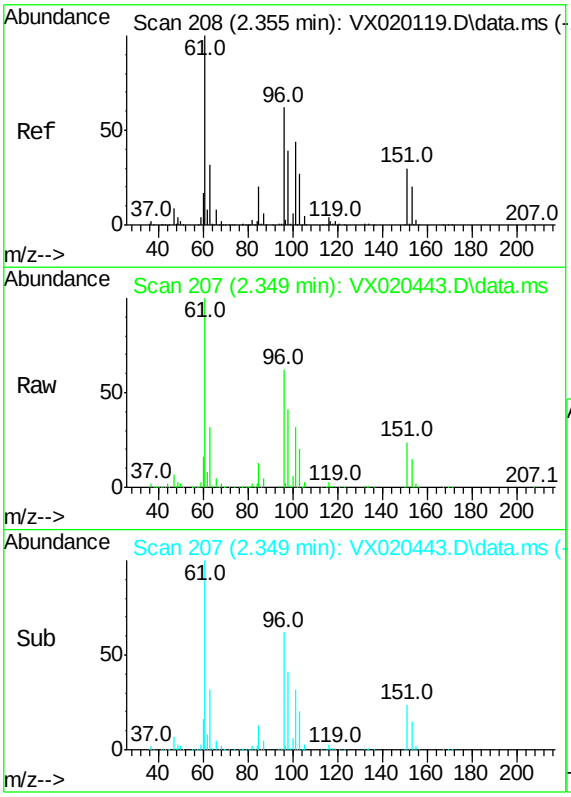


#11
Tert butyl alcohol
Concen: 248.71 ug/l
RT: 3.020 min Scan# 317
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 59 Resp: 160655

Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.8	11.8

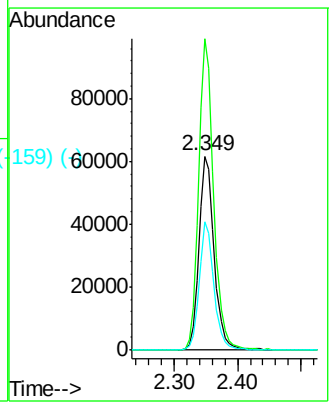




#12
1,1-Dichloroethene
Concen: 45.12 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 96 Resp: 99190

Ion	Ratio	Lower	Upper
96	100		
61	160.7	124.6	187.0
98	66.0	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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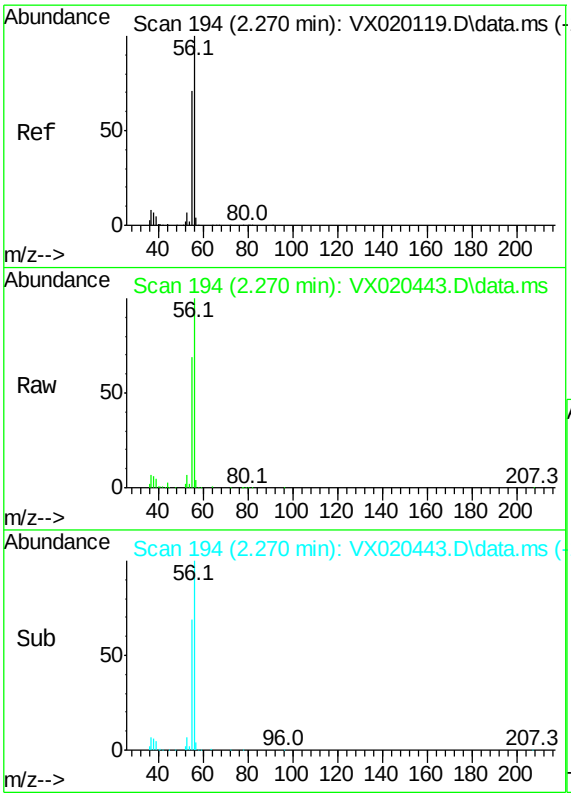
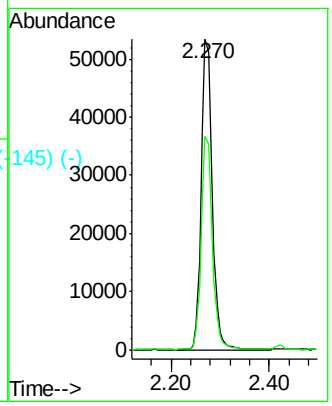
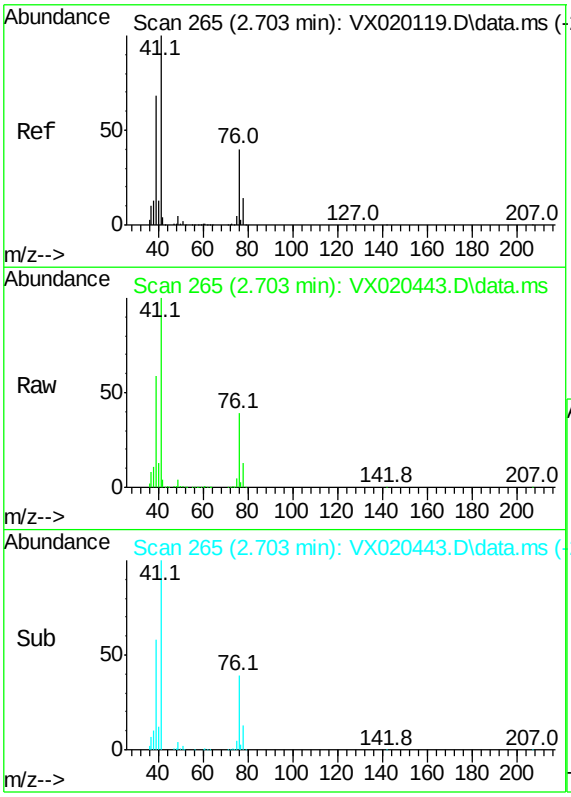


#13 (-)
Acrolein
Concen: 207.77 ug/l
RT: 2.270 min Scan# 194
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 56 Resp: 83864

Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.4	84.6

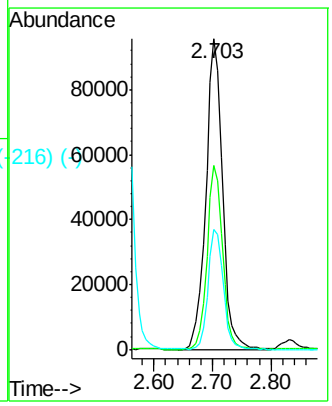




#14 (-)
Allyl chloride
Concen: 47.92 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

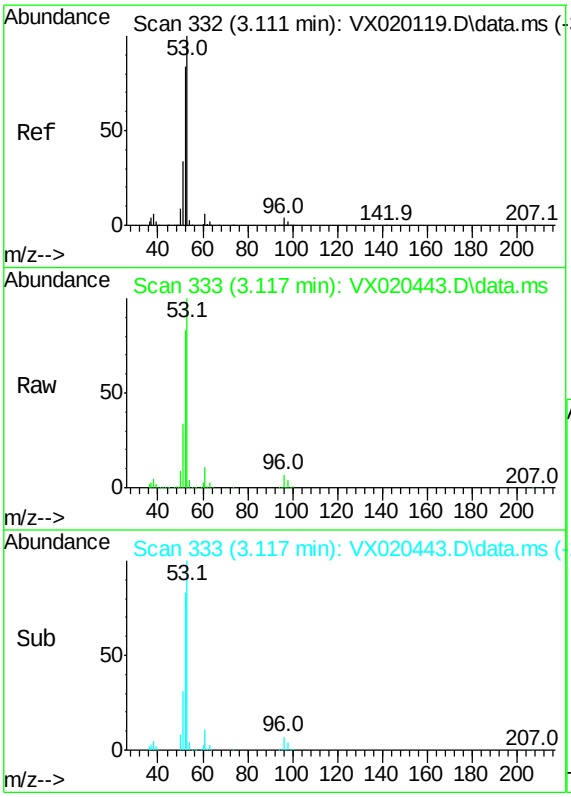
Tgt Ion: 41 Resp: 186969

Ion	Ratio	Lower	Upper
41	100		
39	55.2	51.6	77.4
76	35.2	30.5	45.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

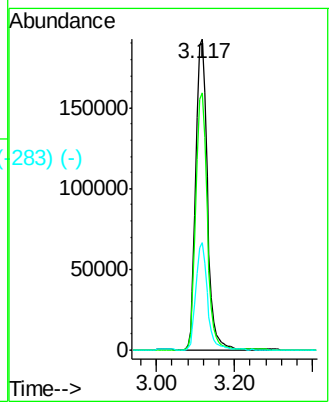
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

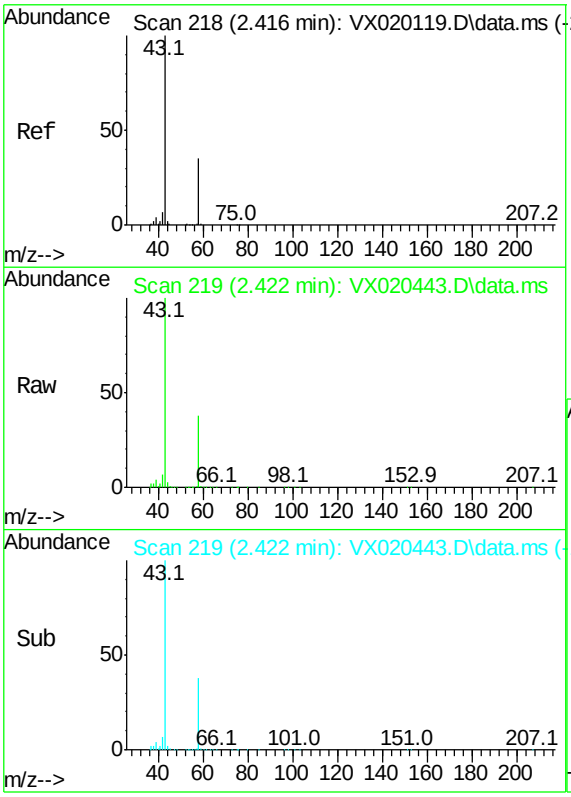


#15
Acrylonitrile
Concen: 264.81 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 53 Resp: 393533

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.3	97.9
51	34.3	28.2	42.2

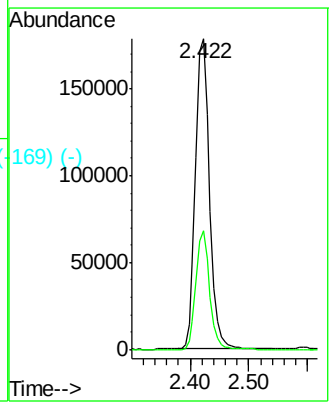




#16
Acetone
Concen: 224.69 ug/l
RT: 2.422 min Scan# 219
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

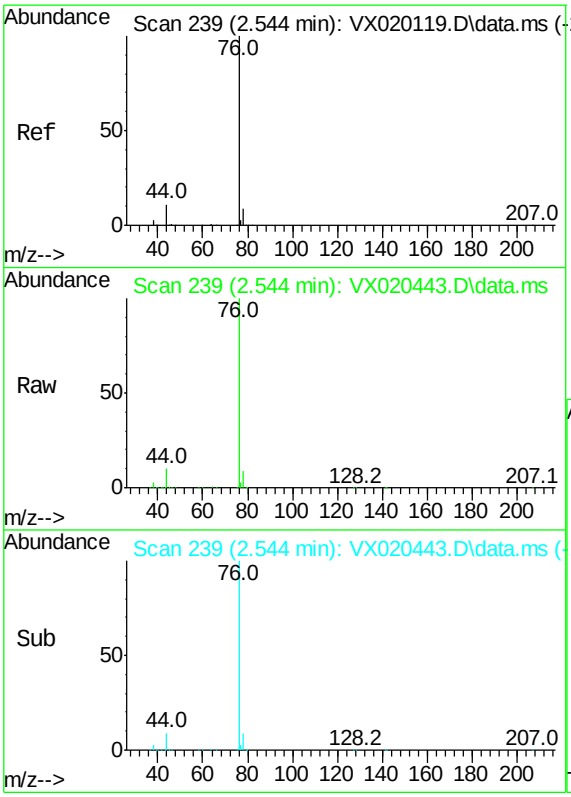
Tgt Ion: 43 Resp: 295552

Ion	Ratio	Lower	Upper
43	100		
58	38.2	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

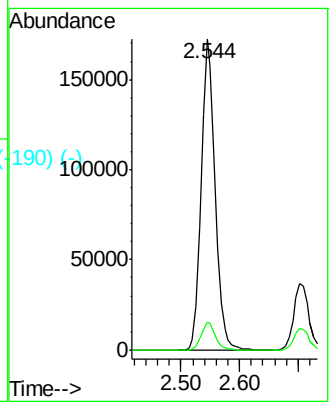
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

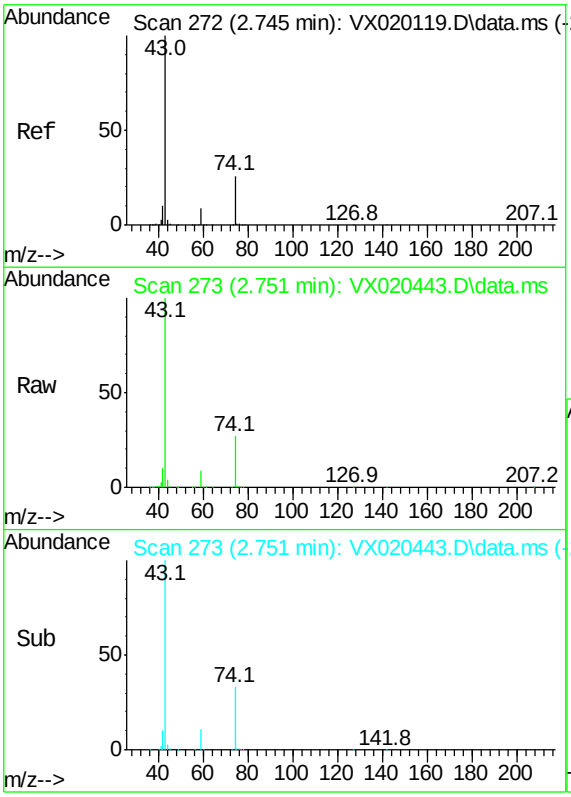


#17 (-)
Carbon Disulfide
Concen: 43.57 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 76 Resp: 282949

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8

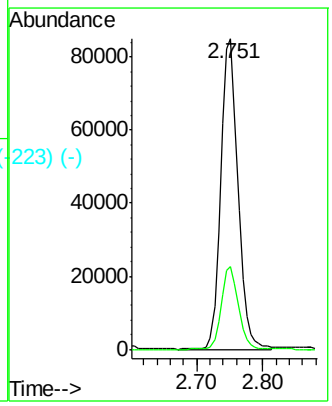




#18 (-)
Methyl Acetate
Concen: 52.12 ug/l
RT: 2.751 min Scan# 273
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 152915

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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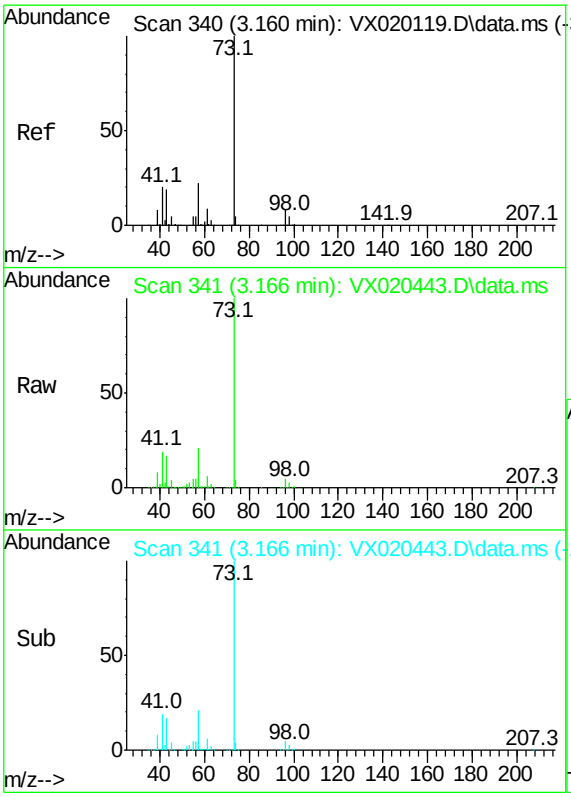
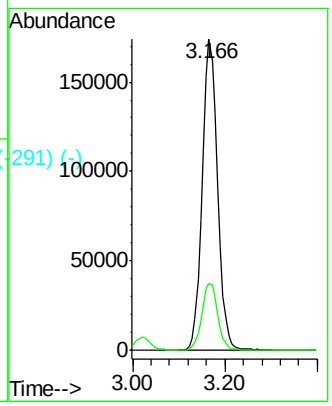
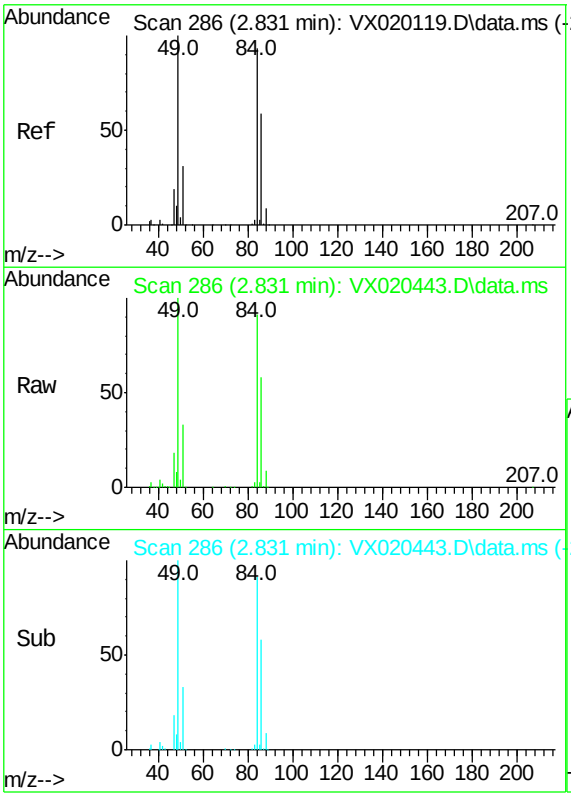


#19
Methyl tert-butyl Ether
Concen: 48.39 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 73 Resp: 398178

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

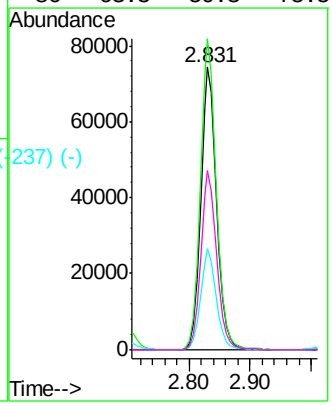




#20
Methylene Chloride
Concen: 45.76 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 84 Resp: 135685

Ion	Ratio	Lower	Upper
84	100		
49	110.1	88.6	132.8
51	36.0	27.0	40.6
86	63.5	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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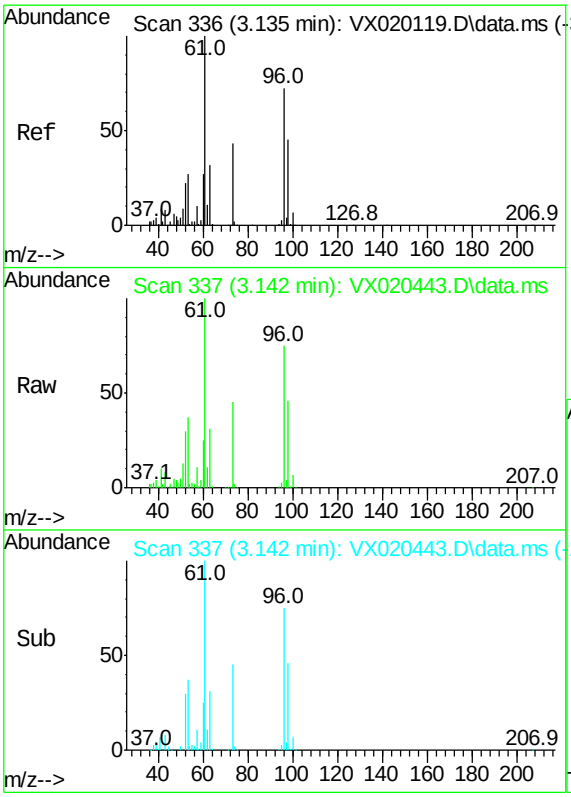
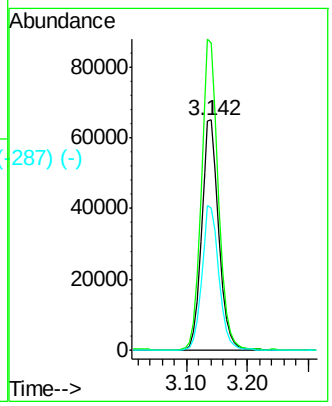
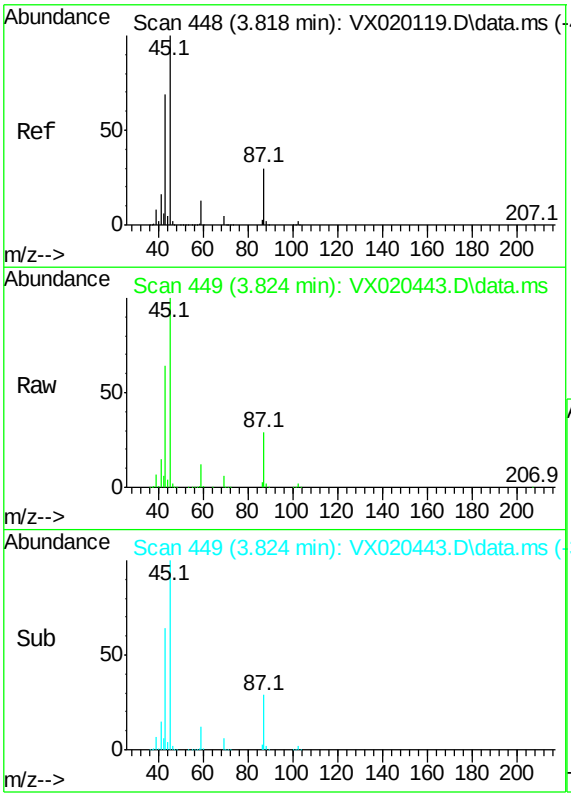


#21
trans-1,2-Dichloroethene
Concen: 47.87 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 96 Resp: 127688

Ion	Ratio	Lower	Upper
96	100		
61	133.5	107.7	161.5
98	61.4	50.4	75.6

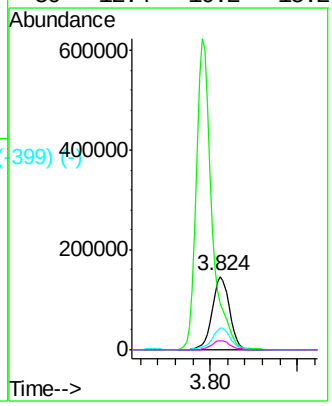




#22
Diisopropyl ether
Concen: 49.23 ug/l
RT: 3.824 min Scan# 449
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 45 Resp: 391980

Ion	Ratio	Lower	Upper
45	100		
43	63.4	58.0	87.0
87	29.5	25.4	38.0
59	12.4	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
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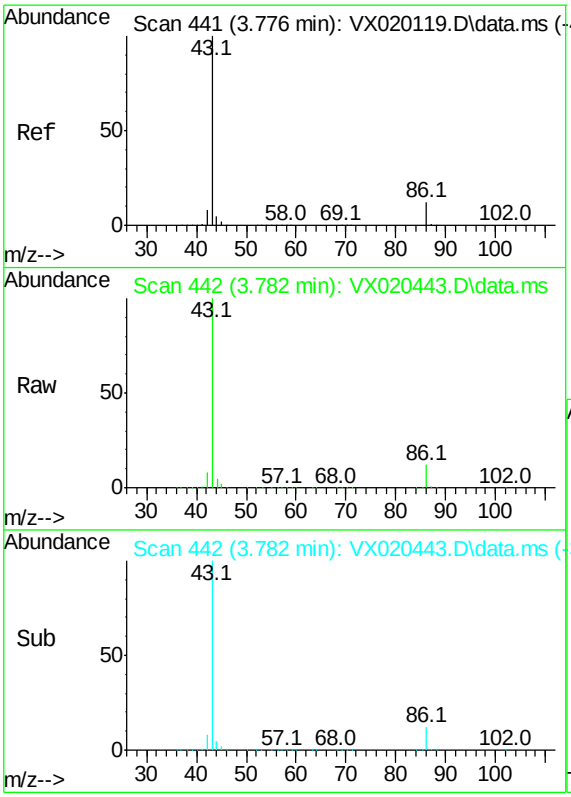
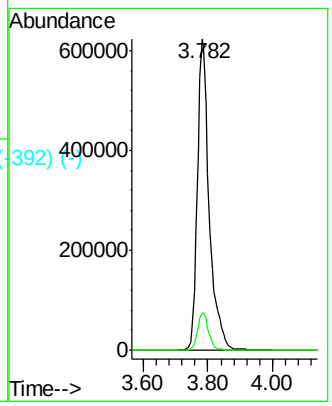
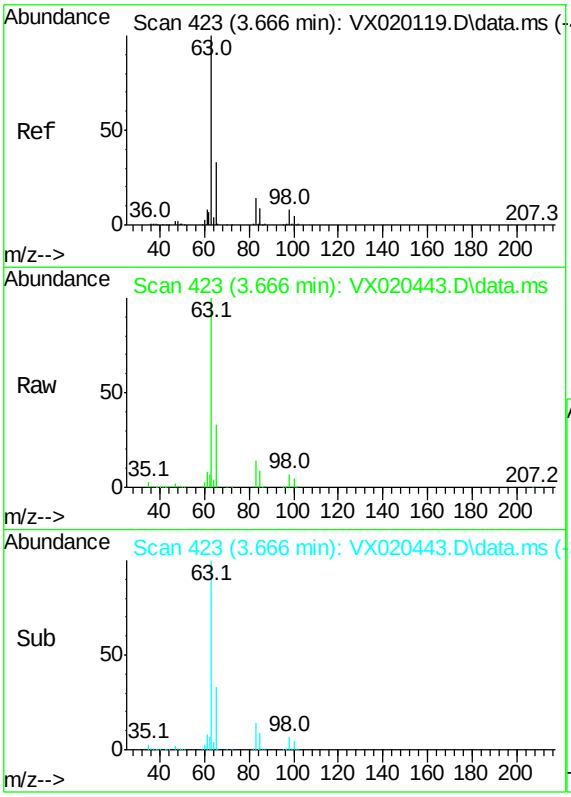


#23
Vinyl Acetate
Concen: 232.65 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 1579000

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.9	14.9

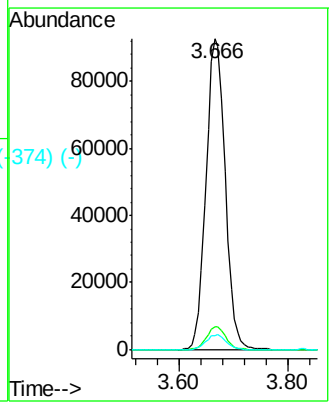




#24
1,1-Dichloroethane
Concen: 48.14 ug/l
RT: 3.666 min Scan# 423
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 63 Resp: 225784

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.6	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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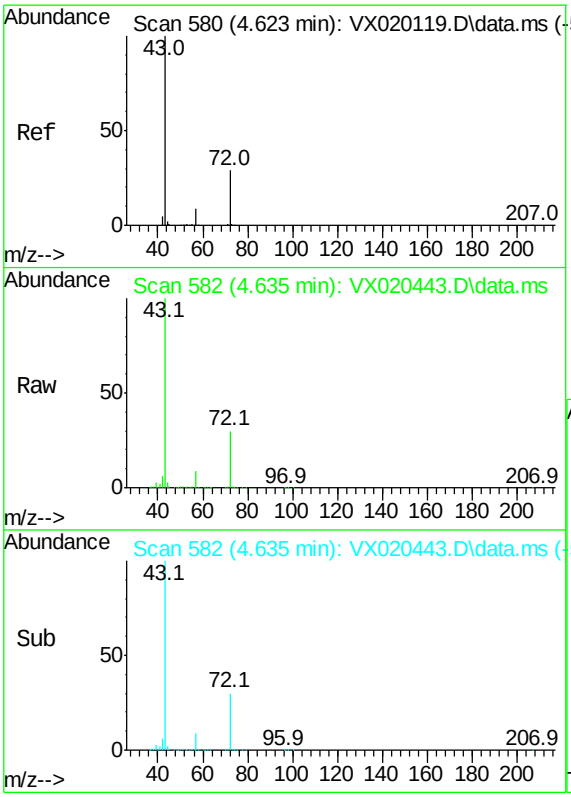
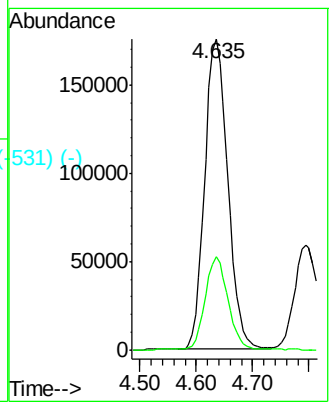
12/30/2020 2:24:00 PM

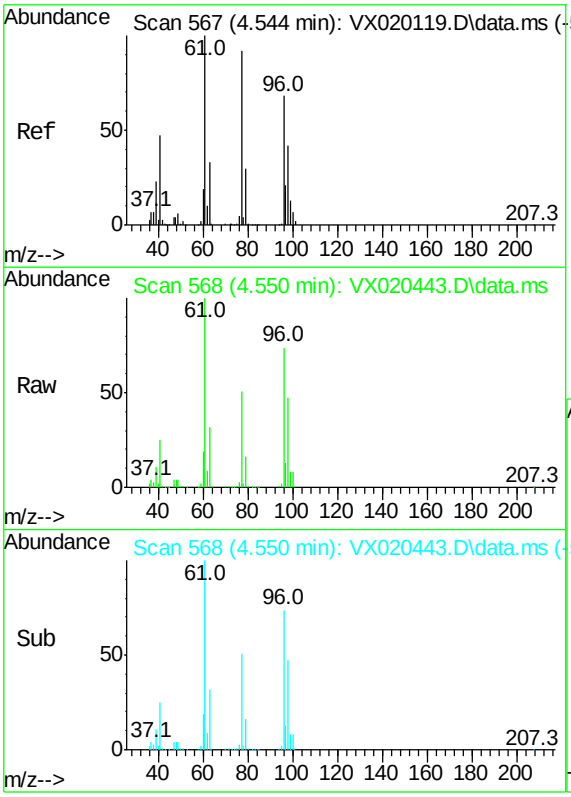


#25
2-Butanone
Concen: 258.86 ug/l
RT: 4.635 min Scan# 582
Delta R.T. 0.012 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 495573

Ion	Ratio	Lower	Upper
43	100		
72	29.8	23.7	35.5

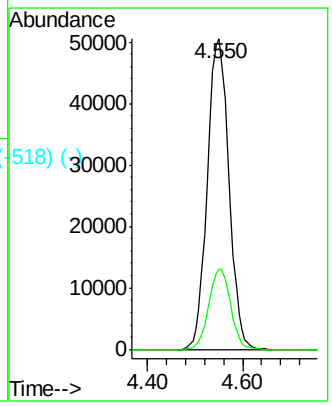




#26
2,2-Dichloropropane
Concen: 40.80 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 77 Resp: 157917

Ion	Ratio	Lower	Upper
77	100		
97	26.1	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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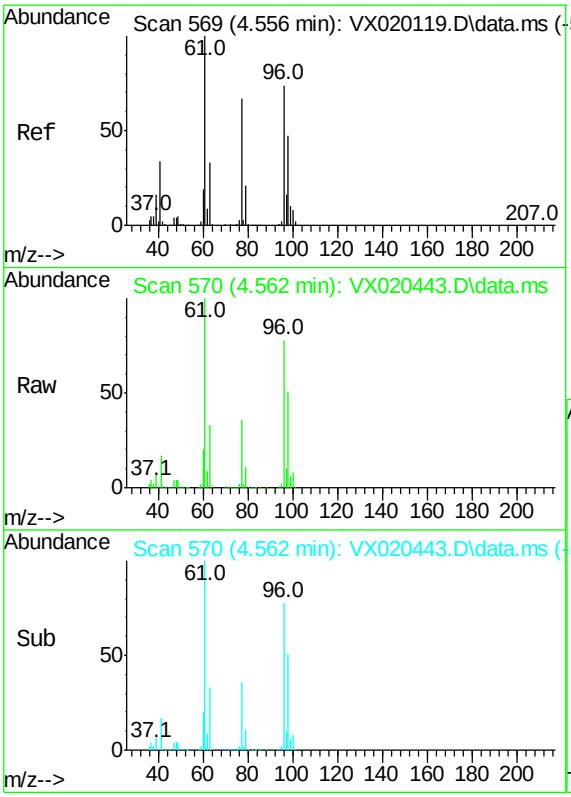
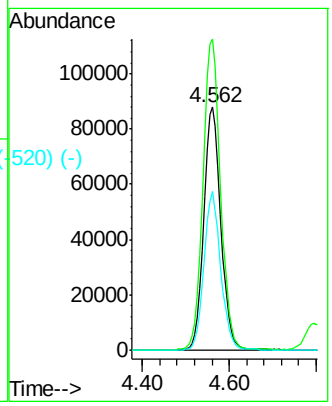
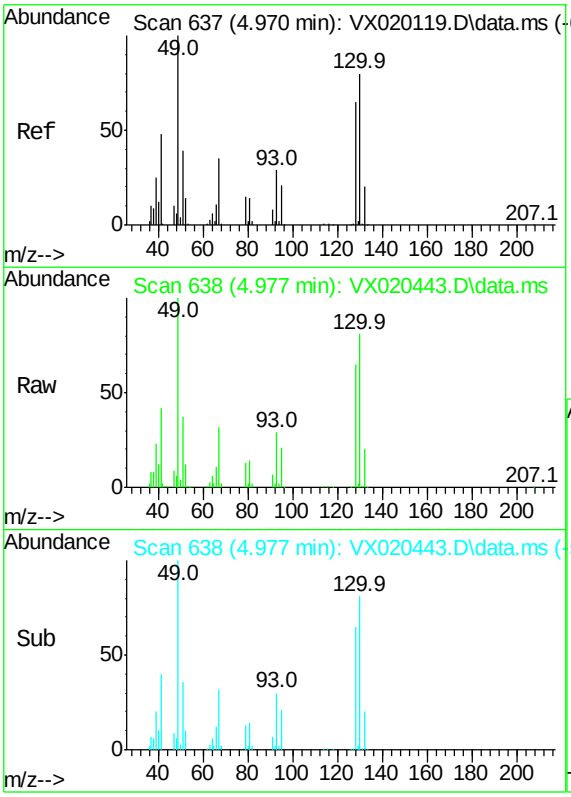


#27 (-)
cis-1,2-Dichloroethene
Concen: 80.10 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 96 Resp: 241139

Ion	Ratio	Lower	Upper
96	100		
61	132.5	0.0	285.6
98	64.1	0.0	129.6

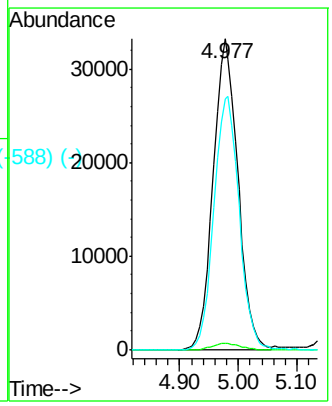




#28 (-)
Bromochloromethane
Concen: 46.59 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.007 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 49 Resp: 97309

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	83.0	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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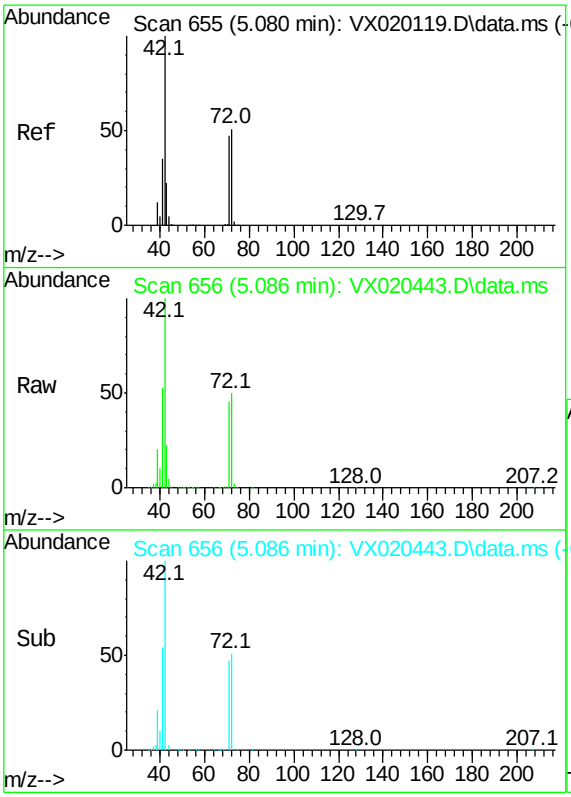
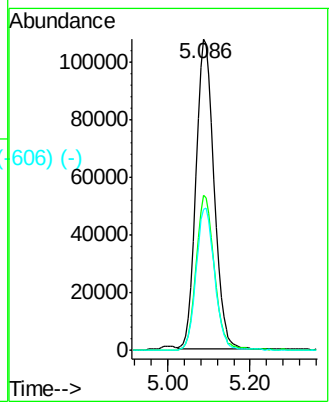
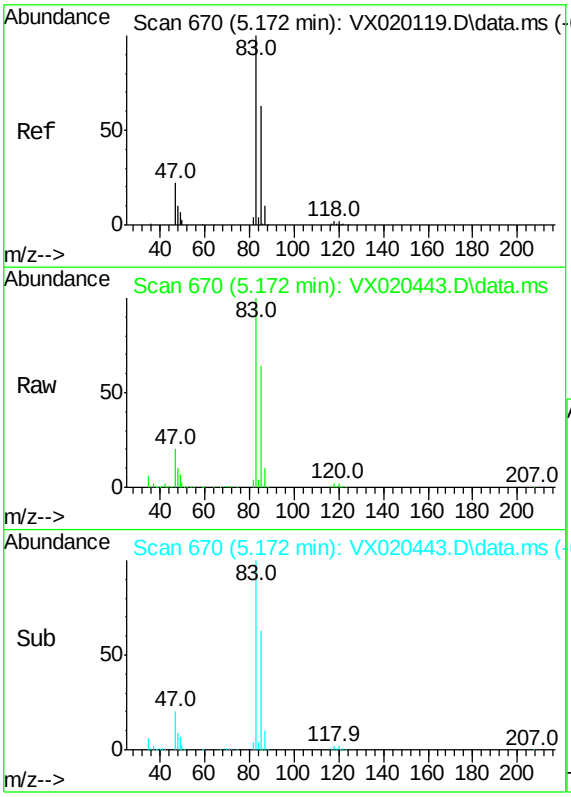


#29
Tetrahydrofuran
Concen: 268.68 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 42 Resp: 323597

Ion	Ratio	Lower	Upper
42	100		
72	49.7	41.7	62.5
71	46.3	38.4	57.6

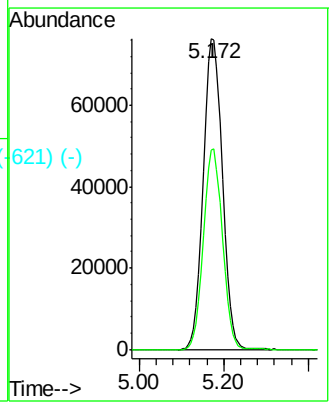




#30
Chloroform
Concen: 48.25 ug/l
RT: 5.172 min Scan# 670
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 83 Resp: 230378

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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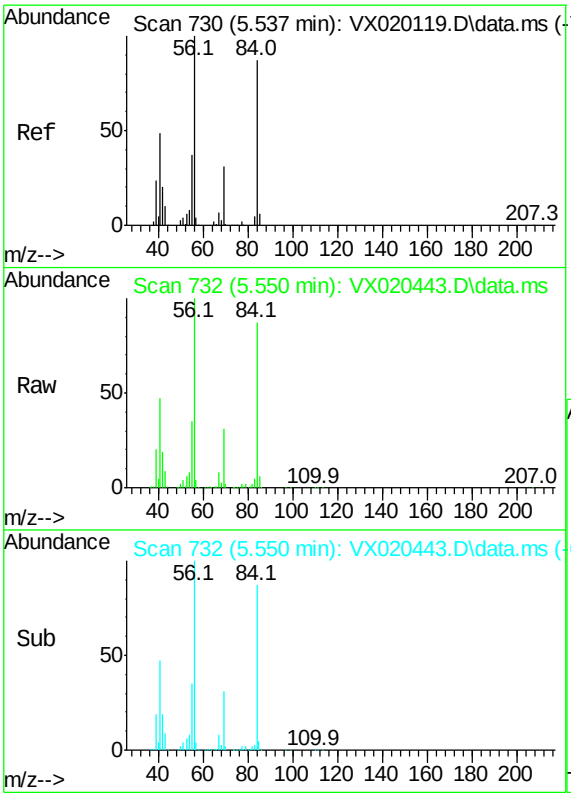
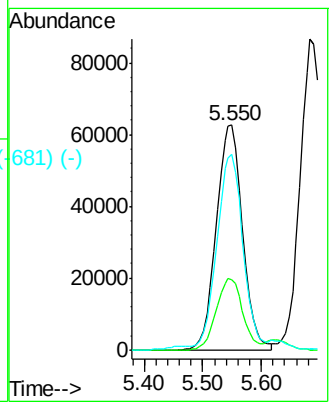
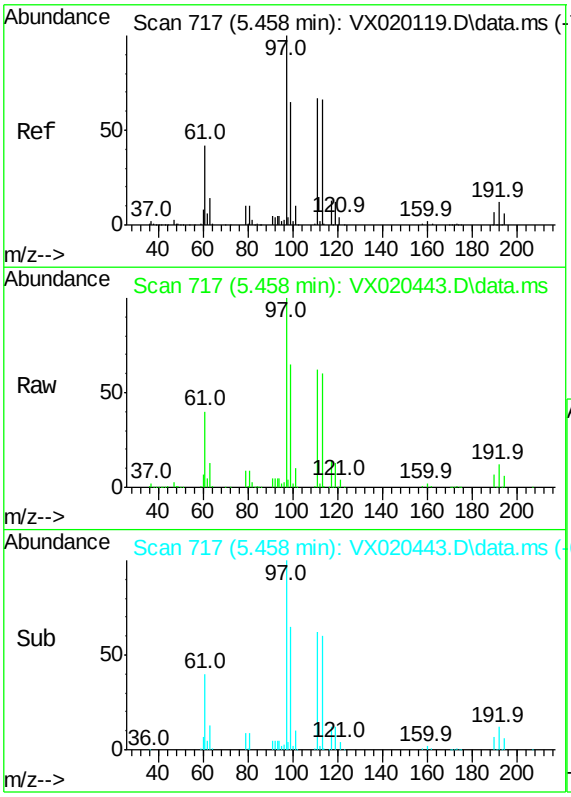


#31 (-)
Cyclohexane
Concen: 48.97 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.013 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 56 Resp: 194778

Ion	Ratio	Lower	Upper
56	100		
69	31.3	25.3	37.9
84	85.4	71.4	107.0

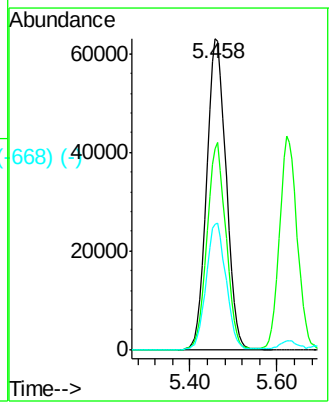




#32 (-)
1,1,1-Trichloroethane
Concen: 48.91 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 97 Resp: 194775

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.5	77.3
61	41.4	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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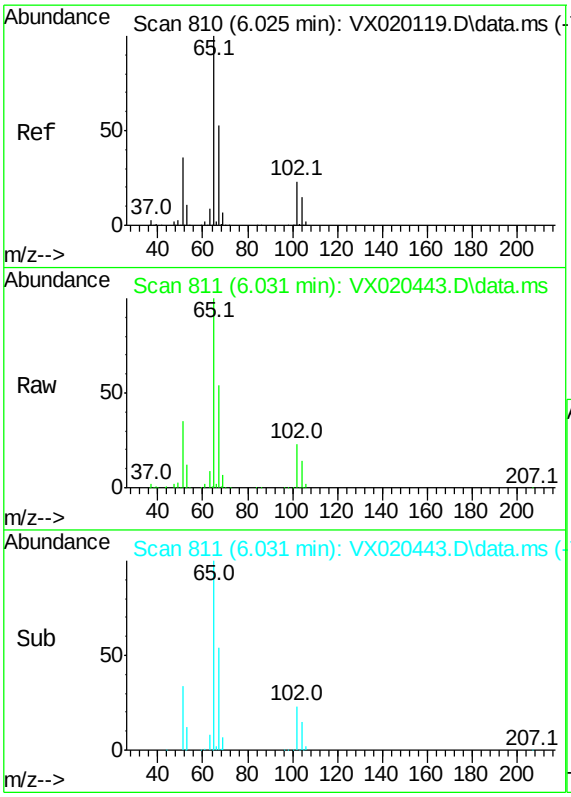
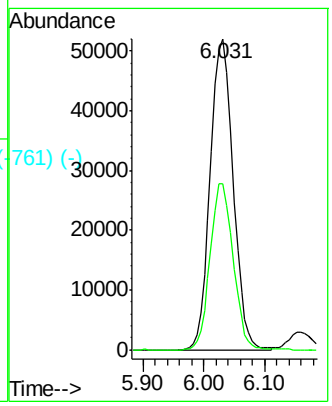
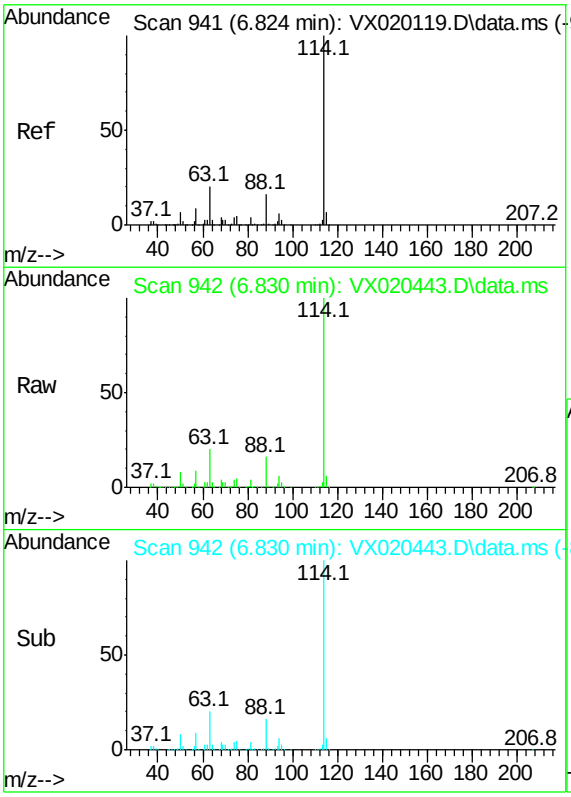


#33
1,2-Dichloroethane-d4
Concen: 46.88 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 65 Resp: 135219

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	105.4

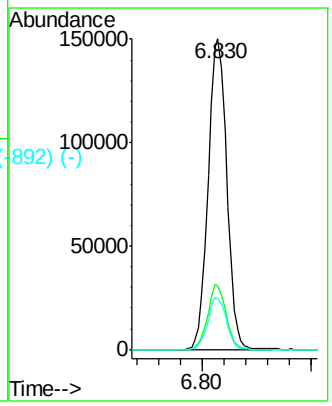




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:114 Resp: 355700

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	16.4	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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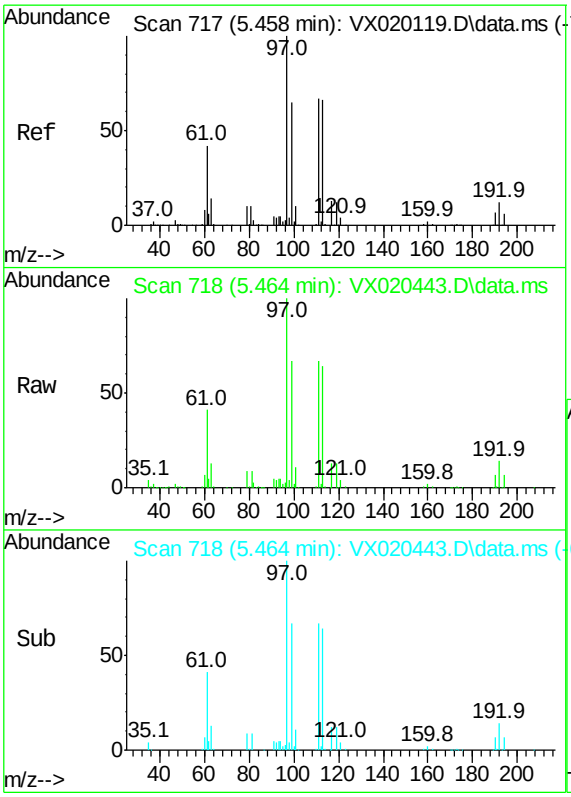
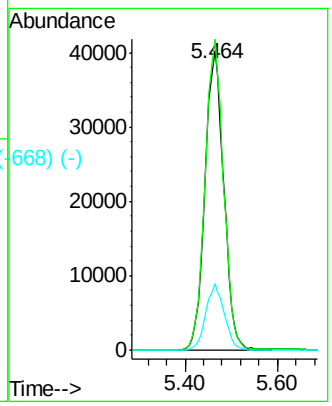
12/30/2020 2:24:00 PM

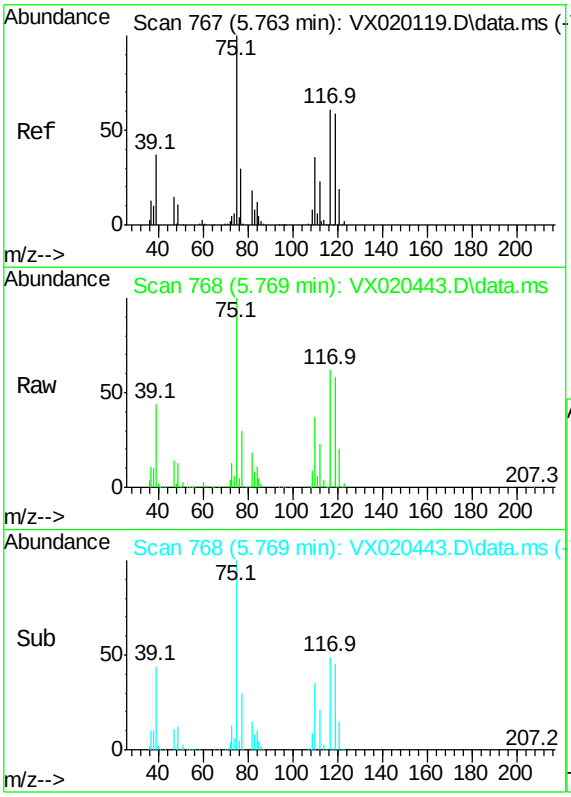


#35
Dibromofluoromethane
Concen: 49.88 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:113 Resp: 113502

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.9	122.9
192	21.5	16.7	25.1

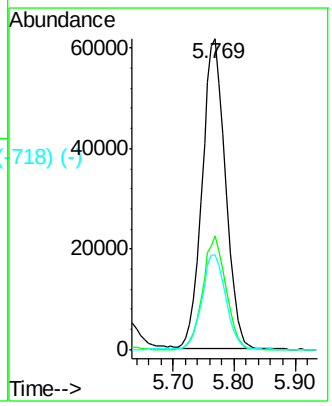




#36
1,1-Dichloropropene
Concen: 46.67 ug/l
RT: 5.769 min Scan# 768
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 75 Resp: 164054

Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.1	54.4
77	31.2	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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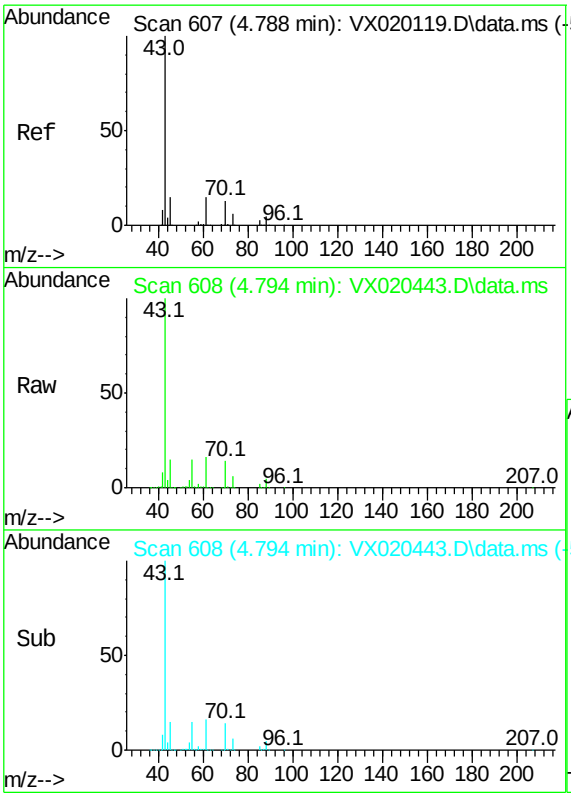
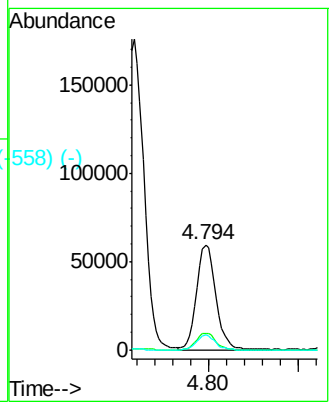
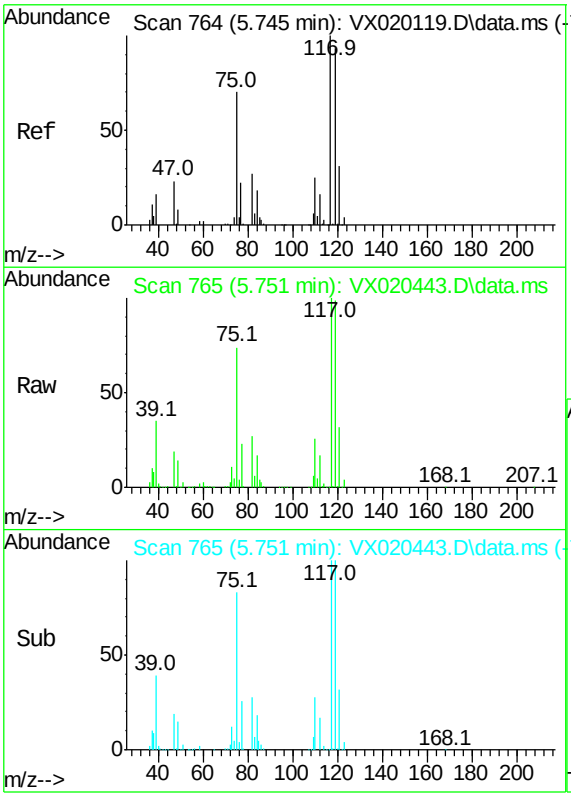


#37 (-)
Ethyl Acetate
Concen: 48.16 ug/l
RT: 4.794 min Scan# 608
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 175956

Ion	Ratio	Lower	Upper
43	100		
61	16.1	12.8	19.2
70	13.4	10.5	15.7

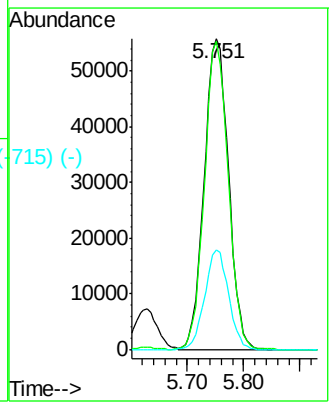




#38 (-)
Carbon Tetrachloride
Concen: 49.59 ug/l
RT: 5.751 min Scan# 765
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:117 Resp: 165819

Ion	Ratio	Lower	Upper
117	100		
119	99.2	76.2	114.2
121	32.0	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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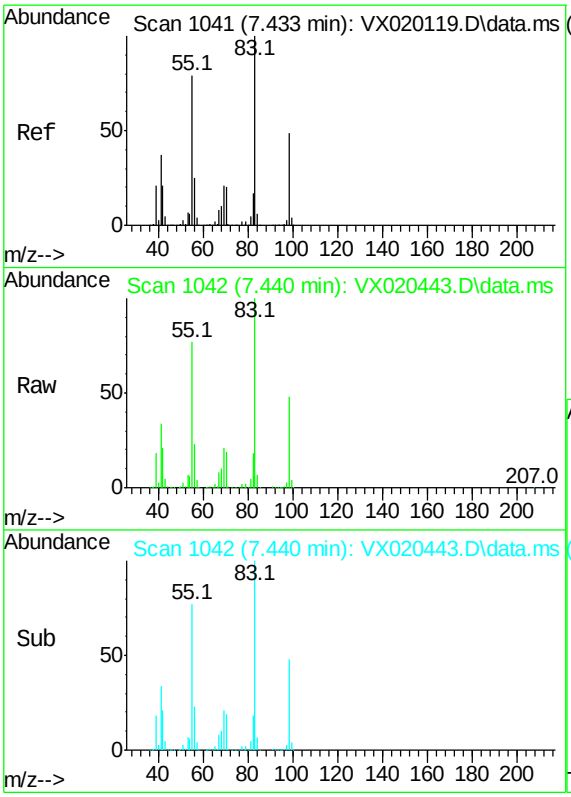
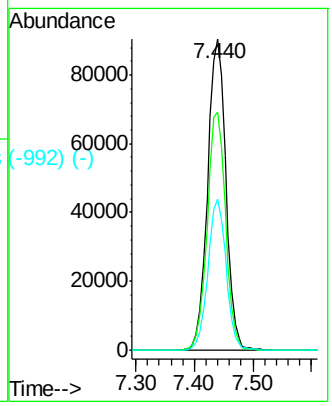
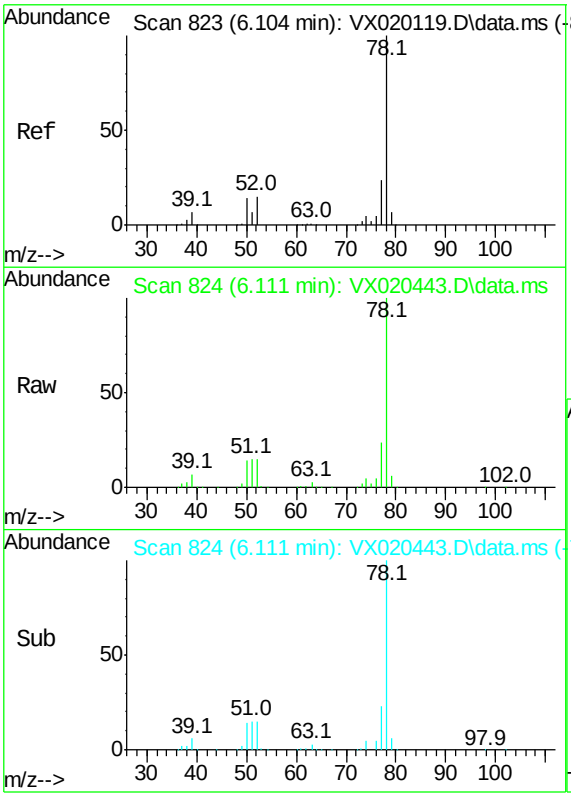


#39
Methylcyclohexane
Concen: 47.79 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.007 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 83 Resp: 193915

Ion	Ratio	Lower	Upper
83	100		
55	76.6	58.9	88.3
98	48.3	38.1	57.1

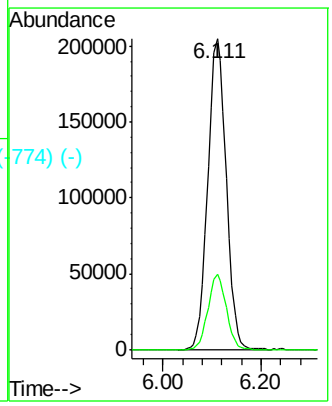




#40
Benzene
Concen: 48.63 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.007 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 78 Resp: 532138

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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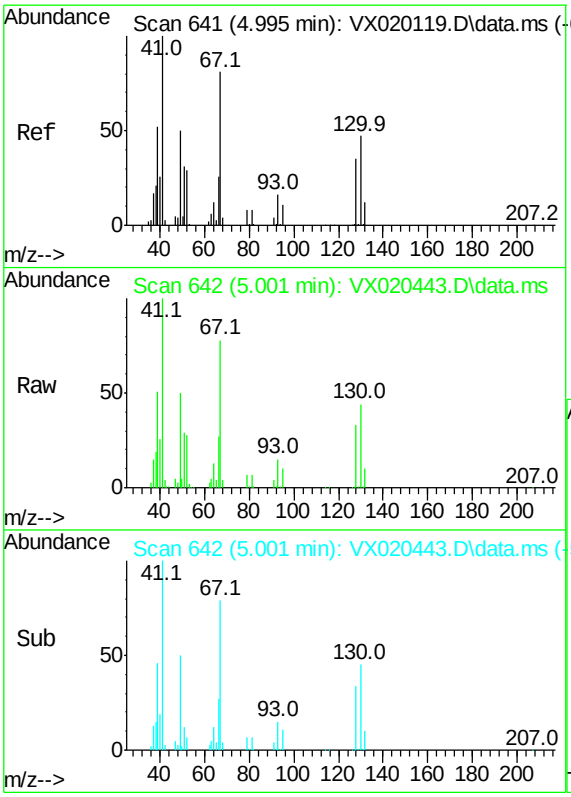
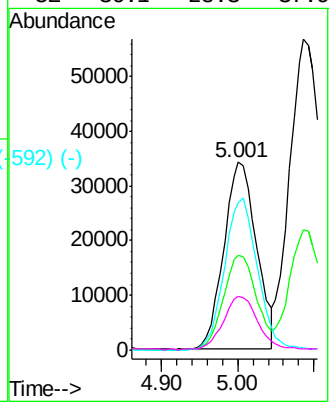
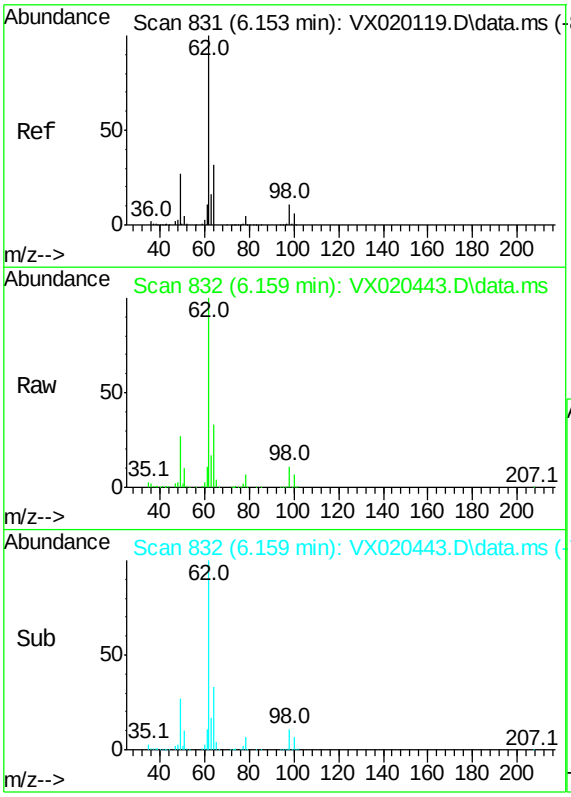


#41
Methacrylonitrile
Concen: 52.42 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 41 Resp: 102030

Ion	Ratio	Lower	Upper
41	100		
39	51.4	42.5	63.7
67	82.3	65.0	97.6
52	30.1	25.3	37.9

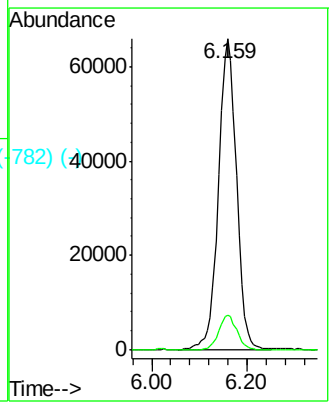




#42
1,2-Dichloroethane
Concen: 46.09 ug/l
RT: 6.159 min Scan# 832
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 62 Resp: 173006

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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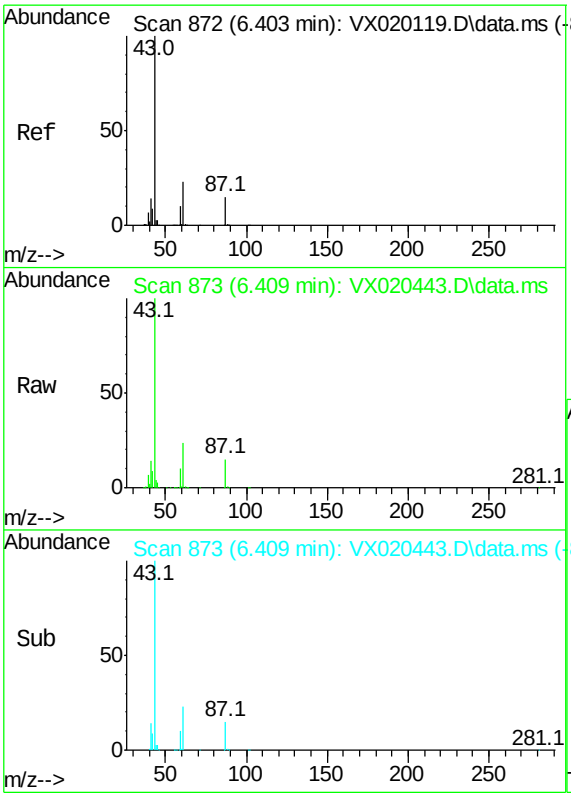
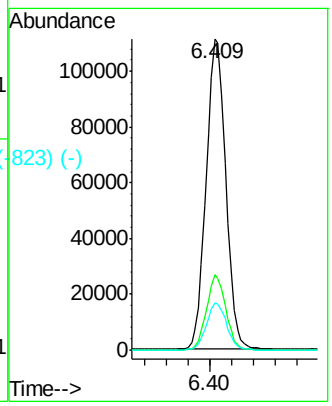
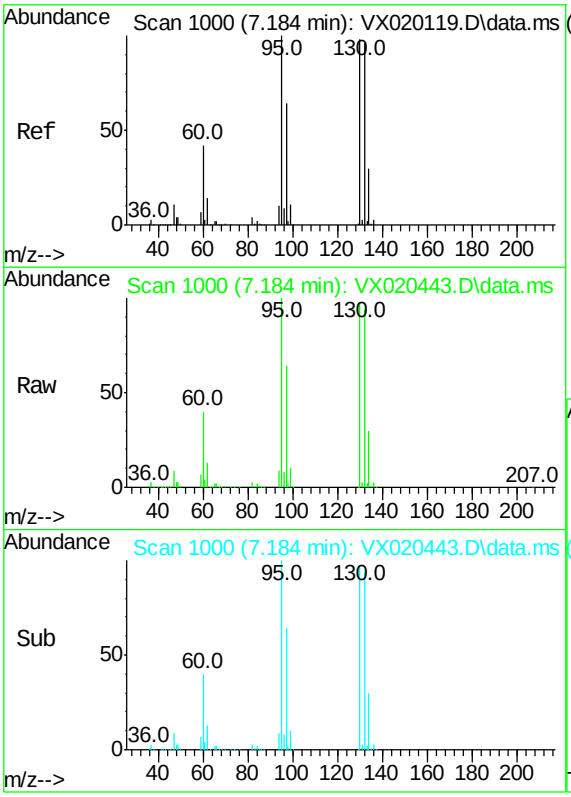


#43
Isopropyl Acetate
Concen: 48.43 ug/l
RT: 6.409 min Scan# 873
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 279330

Ion	Ratio	Lower	Upper
43	100		
61	23.6	18.2	27.4
87	15.3	12.5	18.7

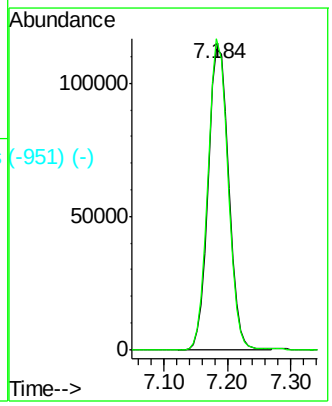




#44
Trichloroethene
Concen: 86.09 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:130 Resp: 243515

Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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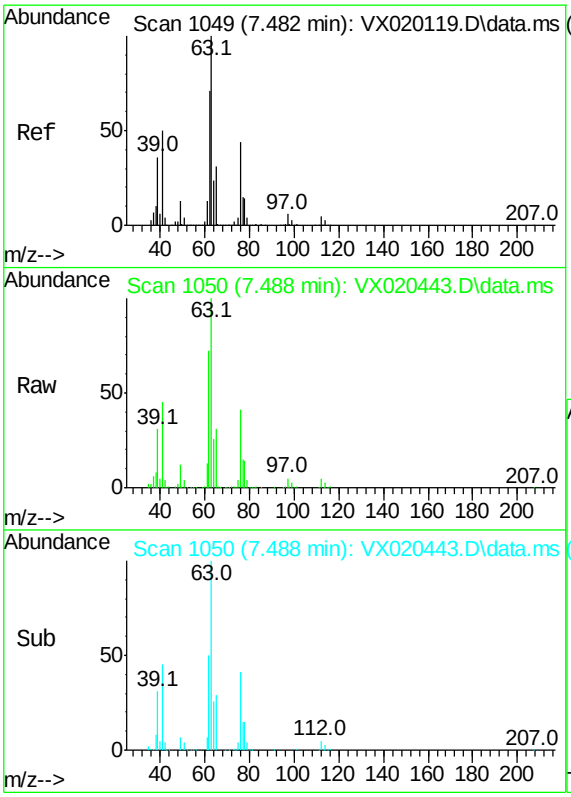
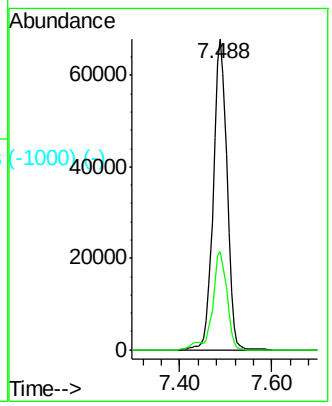
12/30/2020 2:24:00 PM

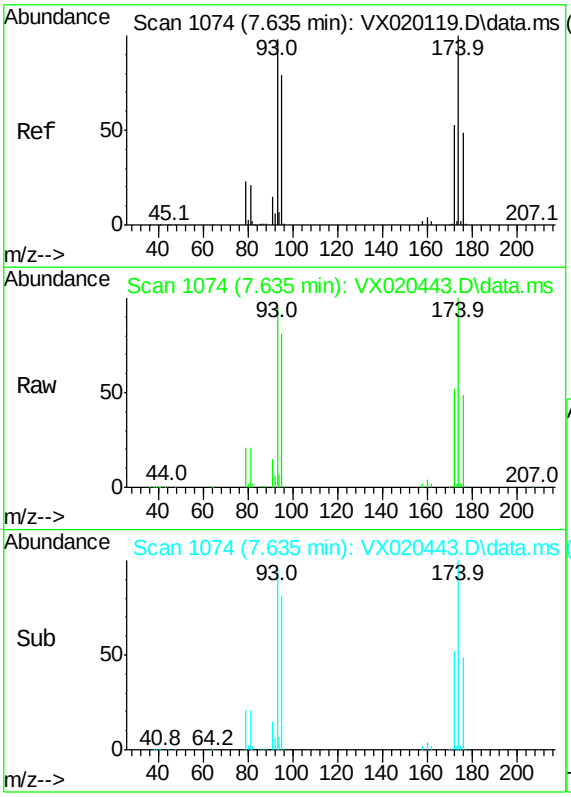


#45
1,2-Dichloropropane
Concen: 50.57 ug/l
RT: 7.488 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 63 Resp: 139870

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.7	38.5

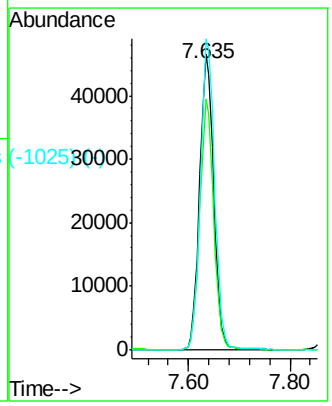




#46
Dibromomethane
Concen: 47.62 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 93 Resp: 90085

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.8	100.2
174	105.3	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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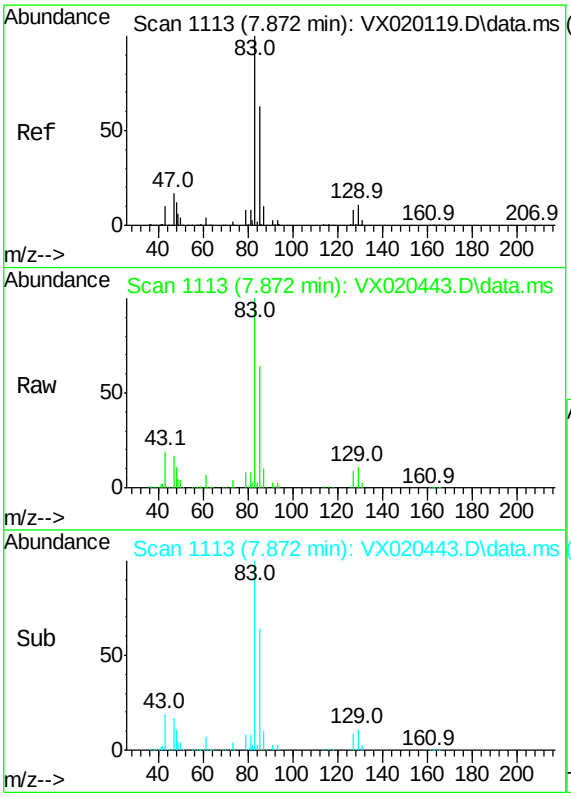
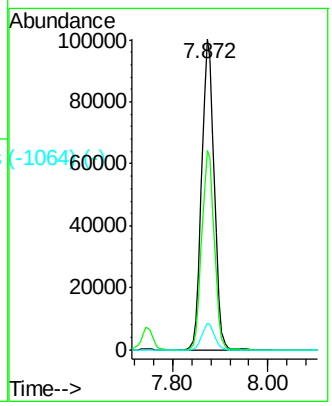
12/30/2020 2:24:00 PM

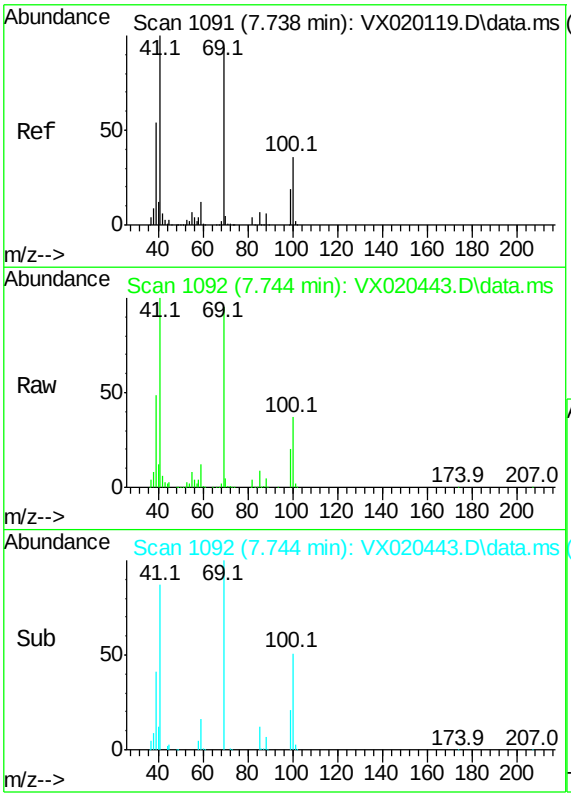


#47
Bromodichloromethane
Concen: 50.82 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 83 Resp: 183291

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.4	77.0
127	8.6	6.8	10.2

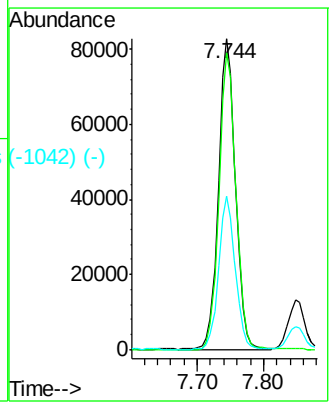




#48
Methyl methacrylate
Concen: 51.90 ug/l
RT: 7.744 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 41 Resp: 146681

Ion	Ratio	Lower	Upper
41	100		
69	95.9	76.0	114.0
39	48.7	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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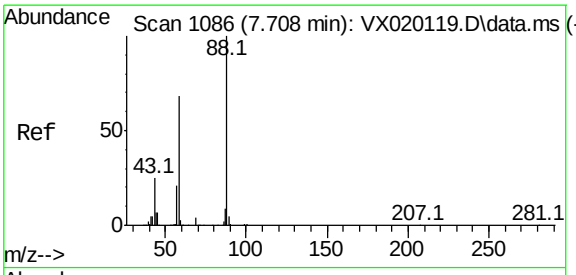
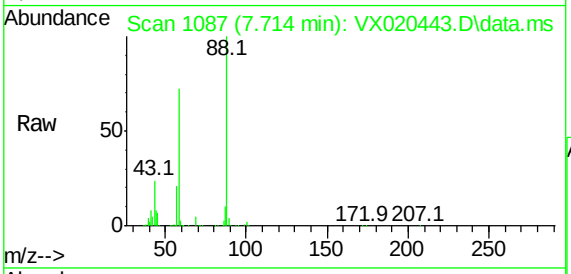
12/30/2020 2:24:00 PM

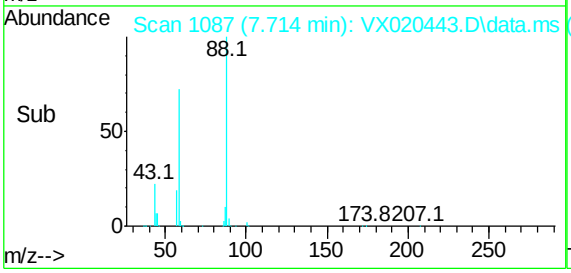


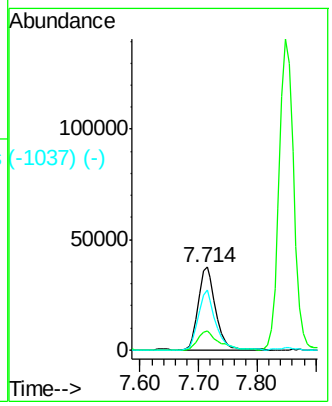
#49
1,4-Dioxane
Concen: 1147.34 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

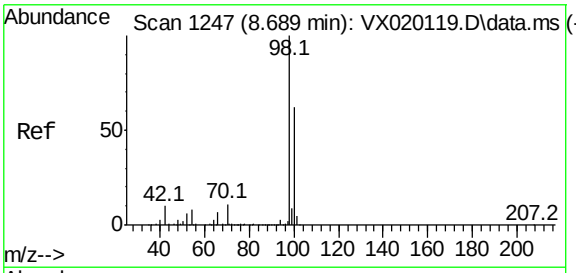
Tgt Ion: 88 Resp: 75907

Ion	Ratio	Lower	Upper
88	100		
43	27.0	23.2	34.8
58	71.9	55.0	82.4





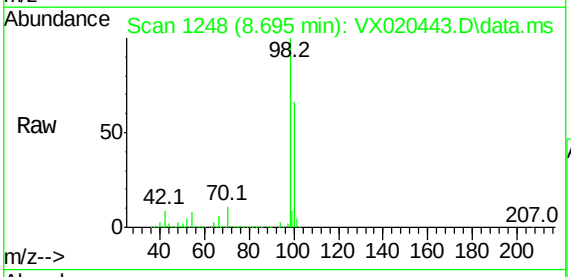


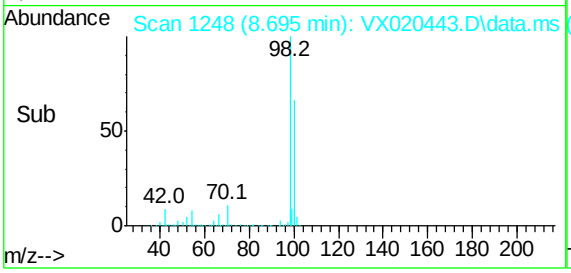


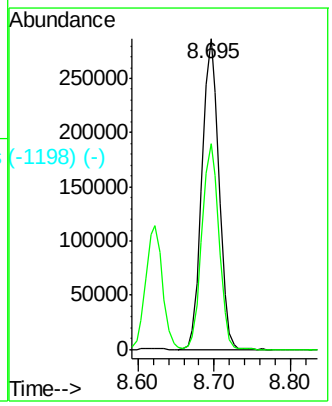
#50
Toluene-d8
Concen: 50.18 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 98 Resp: 439467

Ion	Ratio	Lower	Upper
98	100		
100	66.7	51.9	77.9







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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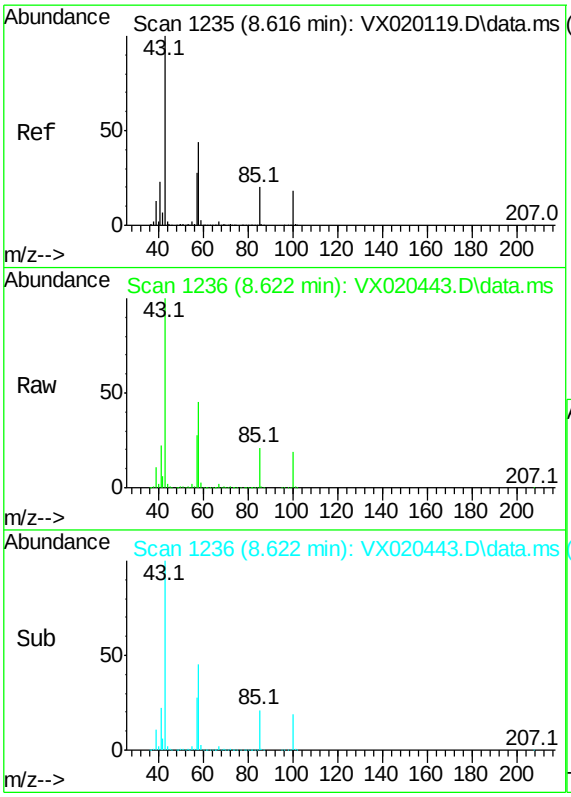
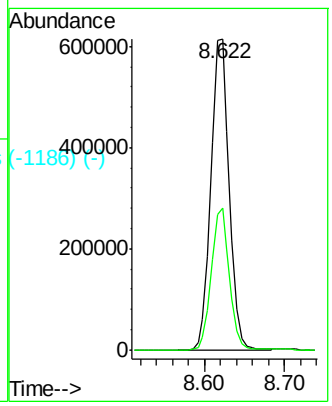
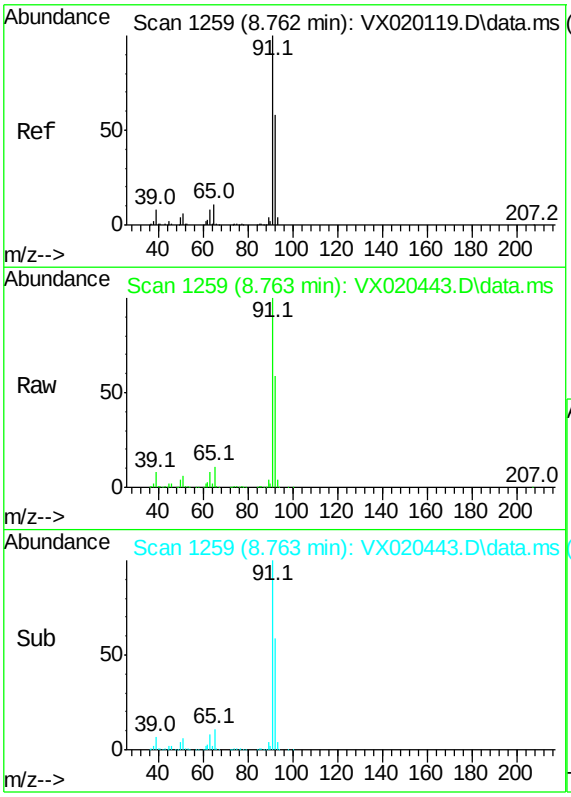


#51
4-Methyl-2-Pentanone
Concen: 272.86 ug/l
RT: 8.622 min Scan# 1236
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 974262

Ion	Ratio	Lower	Upper
43	100		
58	44.7	35.4	53.0

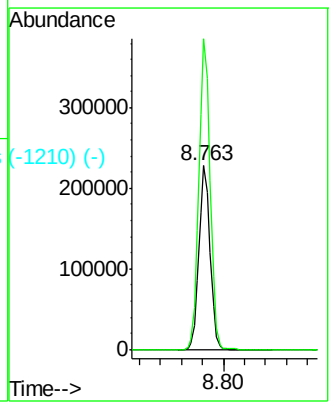




#52
Toluene
Concen: 49.99 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.001 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 92 Resp: 333837

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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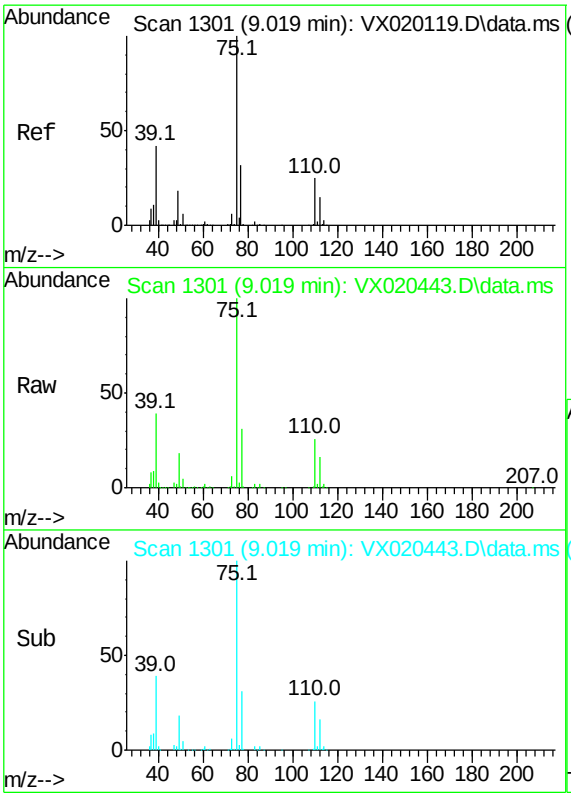
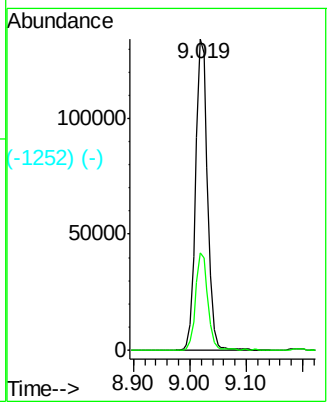
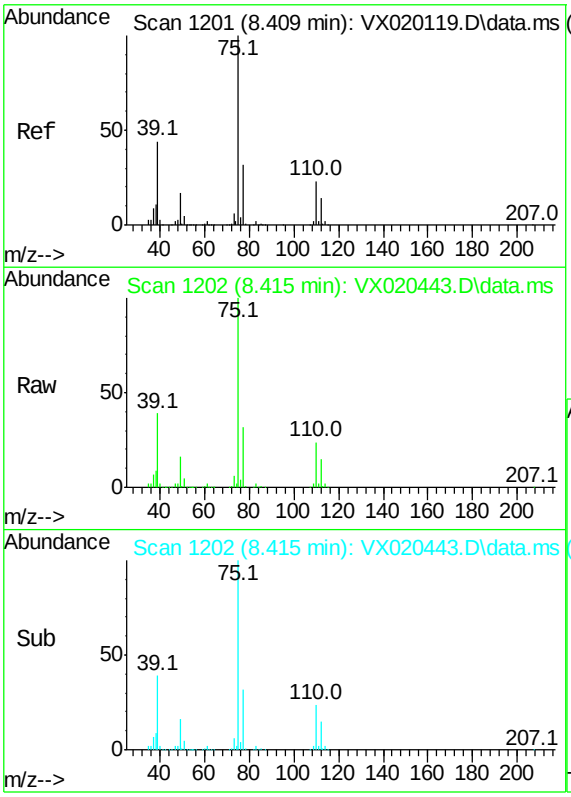


#53
t-1,3-Dichloropropene
Concen: 49.27 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 75 Resp: 195477

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.9	37.3

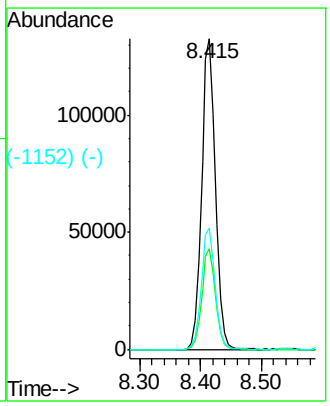




#54
cis-1,3-Dichloropropene
Concen: 48.47 ug/l
RT: 8.415 min Scan# 1202
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 75 Resp: 211098

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.7	38.5
39	39.2	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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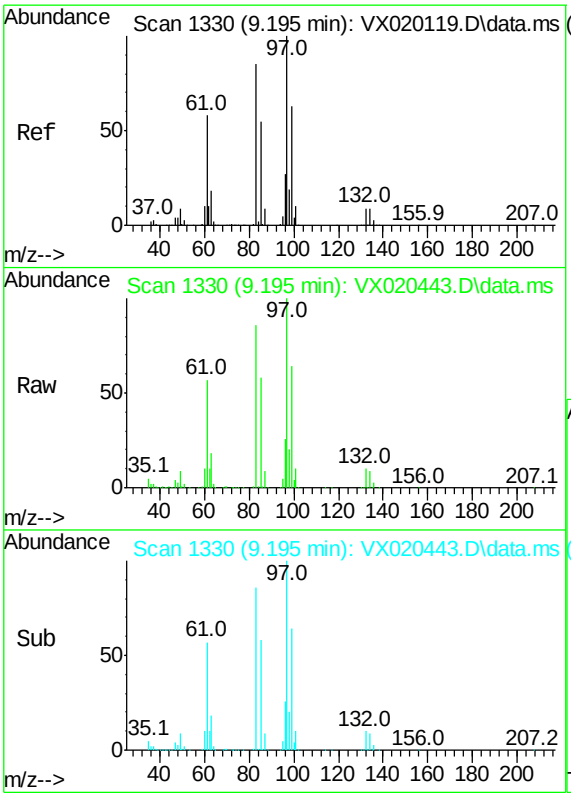
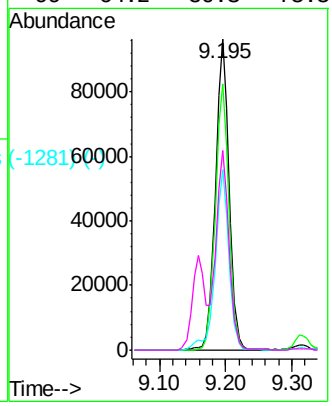
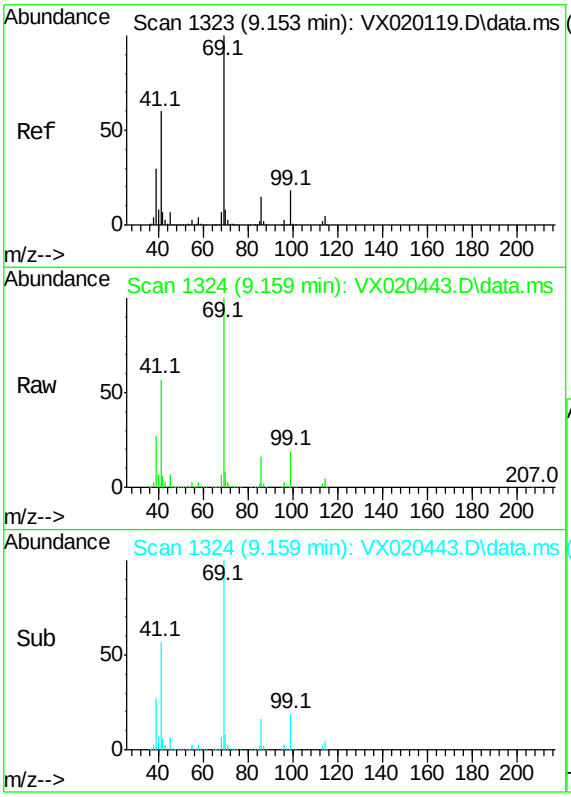


#55
1,1,2-Trichloroethane
Concen: 50.19 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 97 Resp: 138242

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.3	103.9
85	58.0	44.3	66.5
99	64.2	50.3	75.5

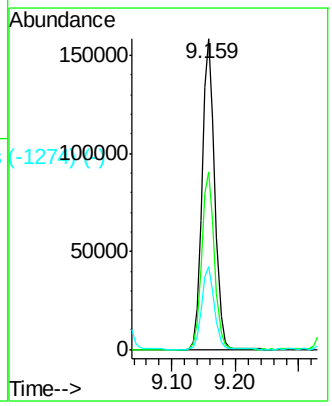




#56
Ethyl methacrylate
Concen: 52.95 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 69 Resp: 213447

Ion	Ratio	Lower	Upper
69	100		
41	57.4	46.8	70.2
39	26.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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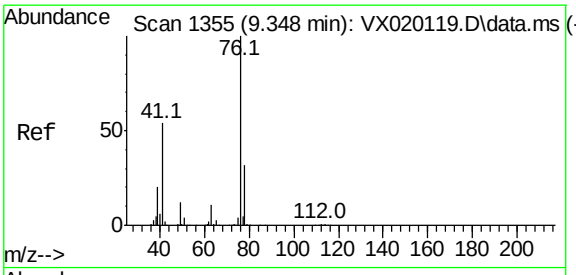
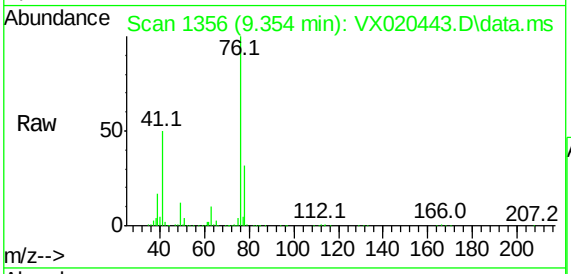
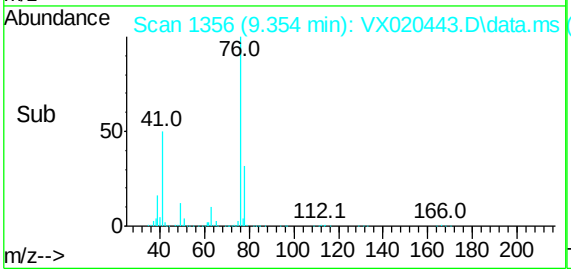


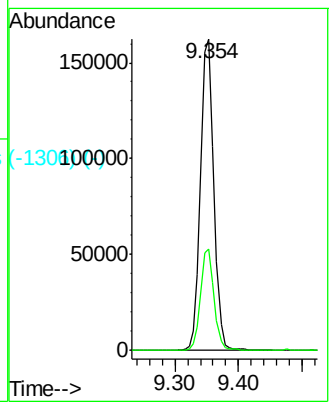
#57
1,3-Dichloropropane
Concen: 49.88 ug/l
RT: 9.354 min Scan# 1356
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

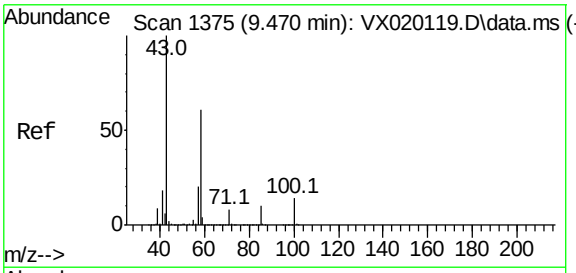
Tgt Ion: 76 Resp: 233875

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.2





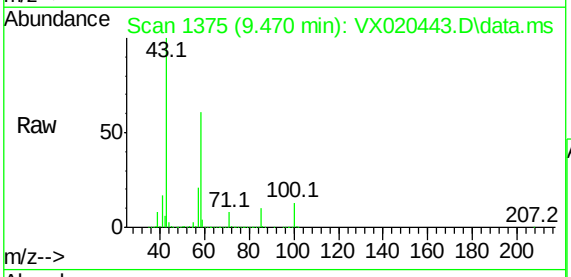


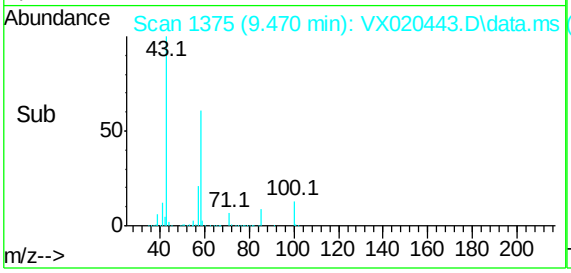


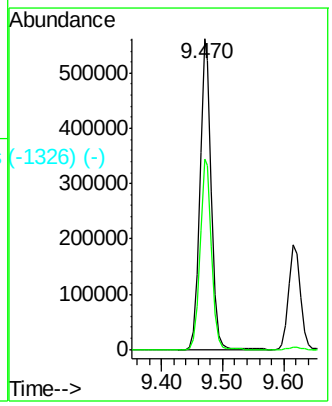
#58
2-Hexanone
Concen: 275.13 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 748607

Ion	Ratio	Lower	Upper
43	100		
58	62.2	30.9	92.8







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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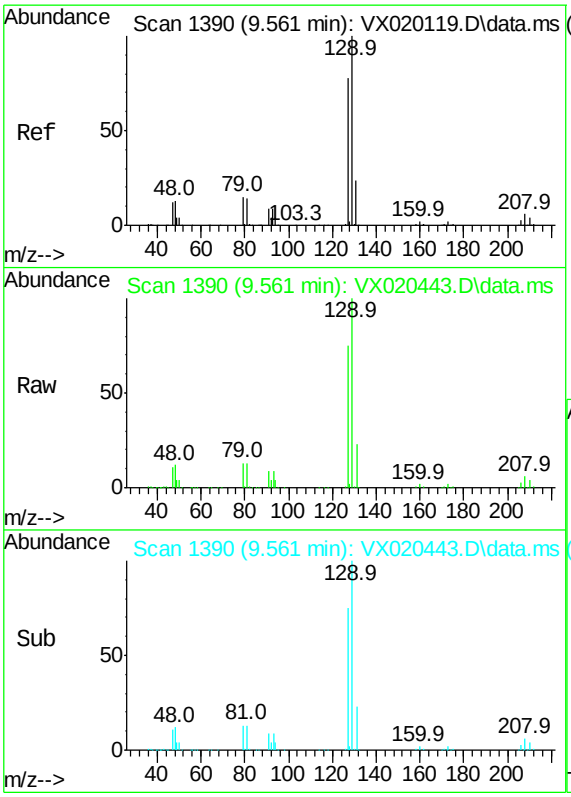
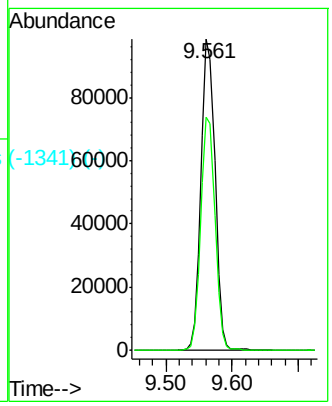
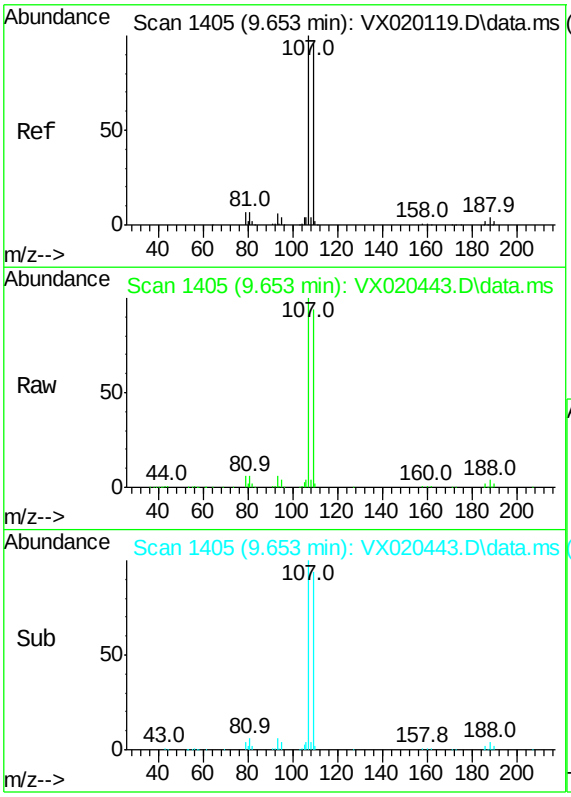


#60
Dibromochloromethane
Concen: 52.63 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:129 Resp: 143845

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.4	115.2

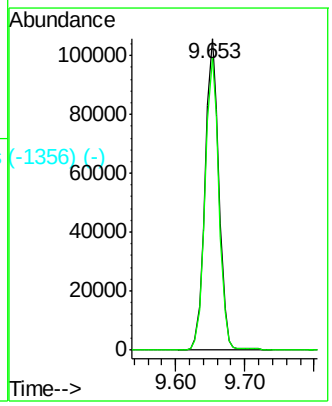




#61
1,2-Dibromoethane
Concen: 49.98 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

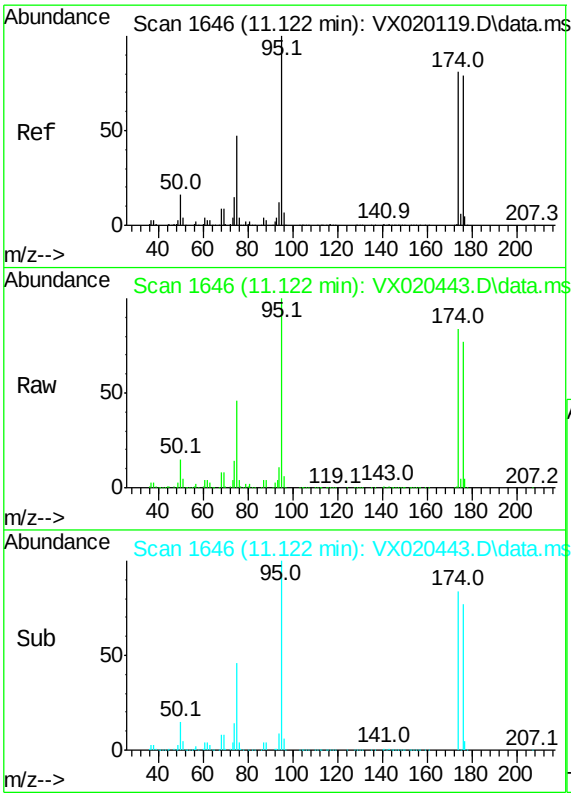
Tgt Ion:107 Resp: 143733

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.8	113.6



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

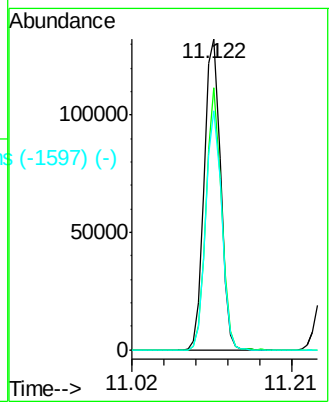
Manual Integrations APPROVED
SAM
12/30/2020 2:24:00 PM

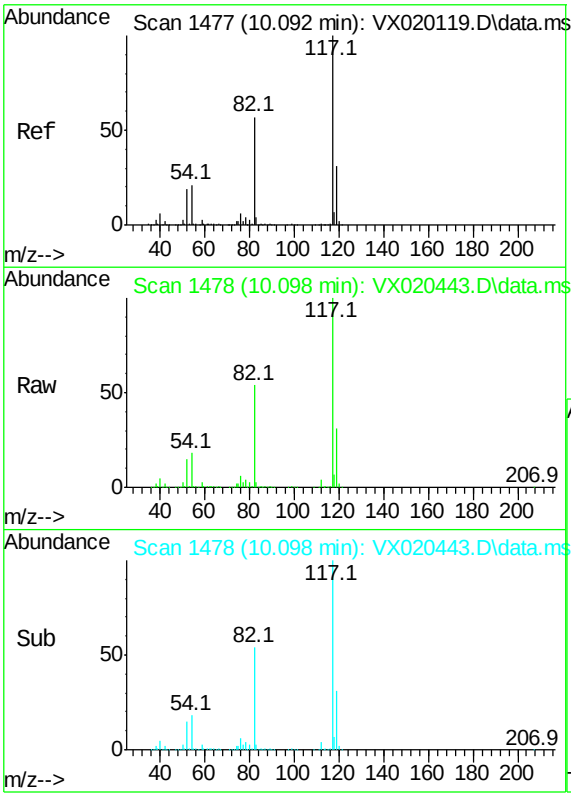
#62


4-Bromofluorobenzene
Concen: 50.70 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 95 Resp: 169967

Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	154.6
176	74.7	0.0	155.8

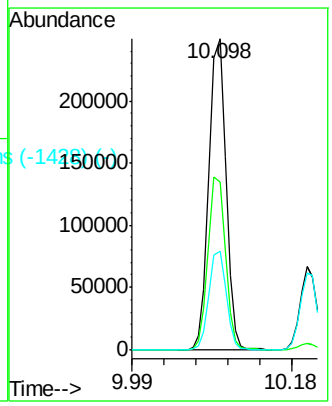


#63


Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:117 Resp: 336209

Ion	Ratio	Lower	Upper
117	100		
82	53.8	47.4	71.2
119	31.5	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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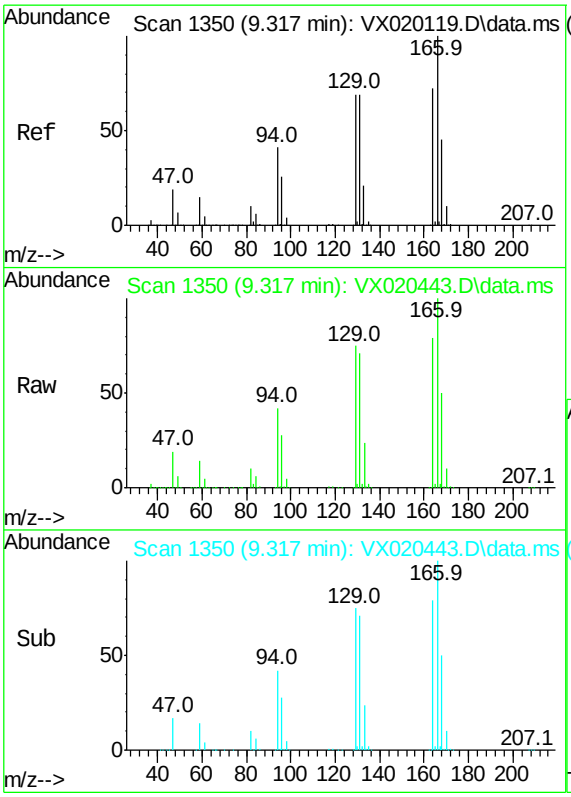
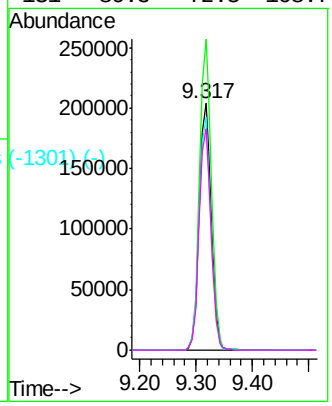
12/30/2020 2:24:00 PM

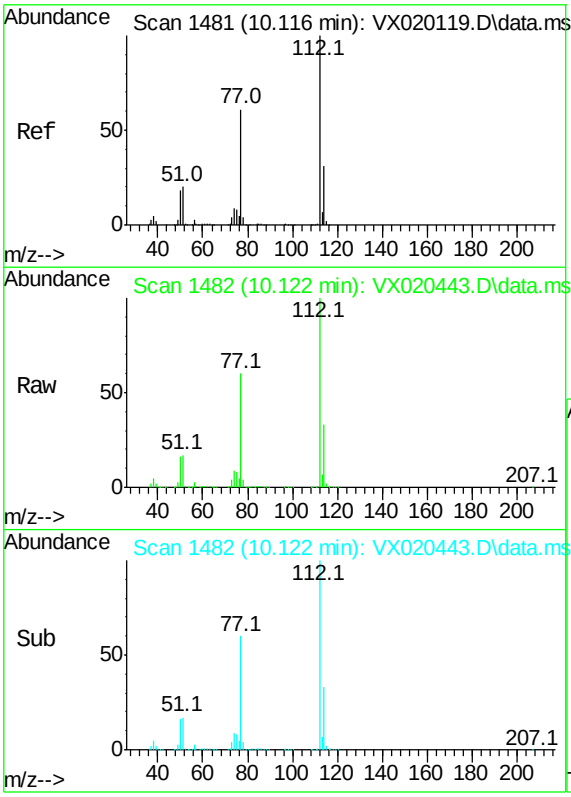


#64
Tetrachloroethene
Concen: 118.00 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:164 Resp: 298907

Ion	Ratio	Lower	Upper
164	100		
166	126.0	103.4	155.2
129	94.3	70.8	106.2
131	89.5	72.5	108.7

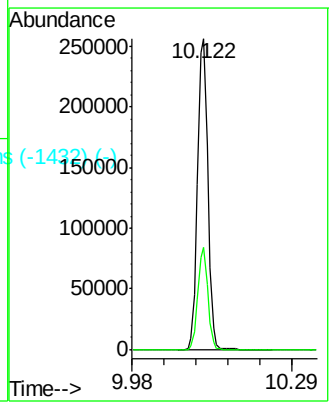




#65
Chlorobenzene
Concen: 48.37 ug/l
RT: 10.122 min Scan# 1482
Delta R.T. 0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:112 Resp: 348928

Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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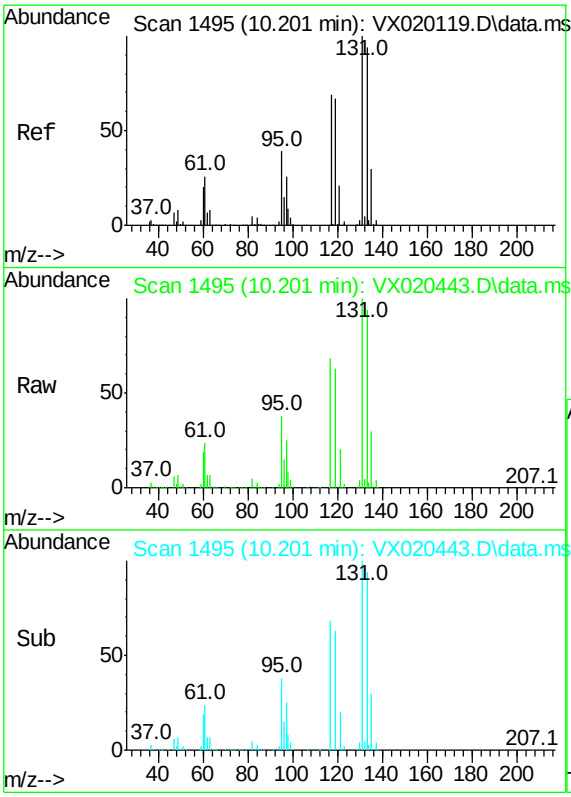
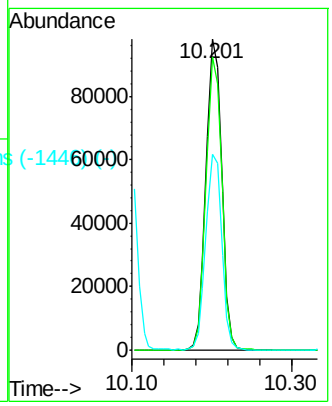
12/30/2020 2:24:00 PM

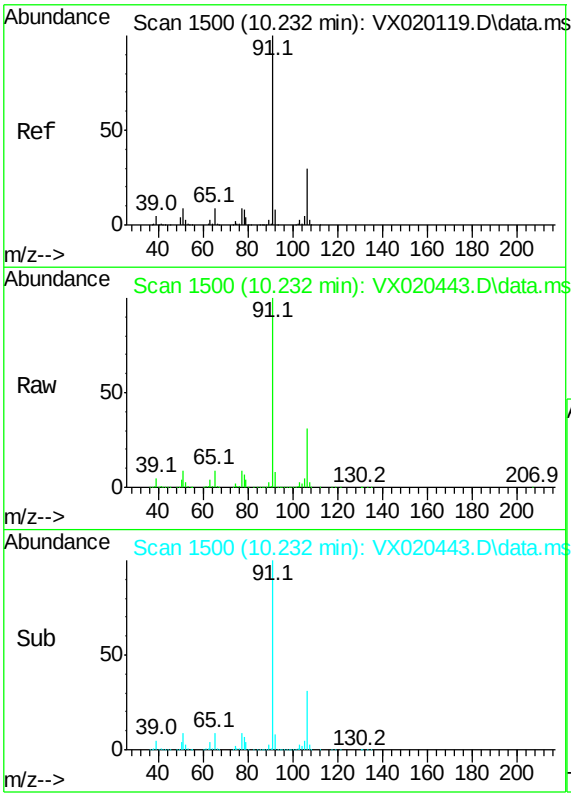


#66
1,1,1,2-Tetrachloroethane
Concen: 51.52 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:131 Resp: 133342

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.7	143.1
119	64.1	32.1	96.5

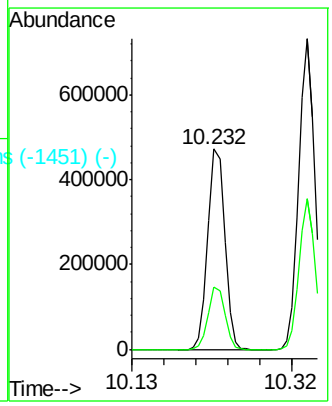




#67
Ethyl Benzene
Concen: 50.32 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 91 Resp: 634481

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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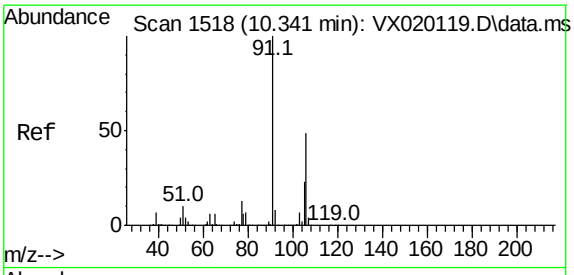
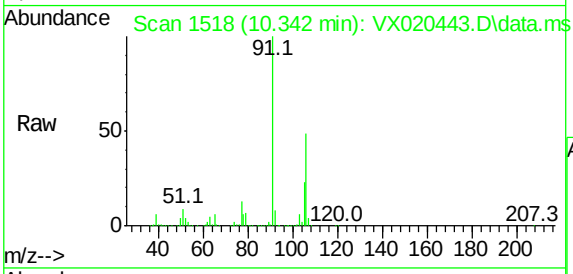
12/30/2020 2:24:00 PM

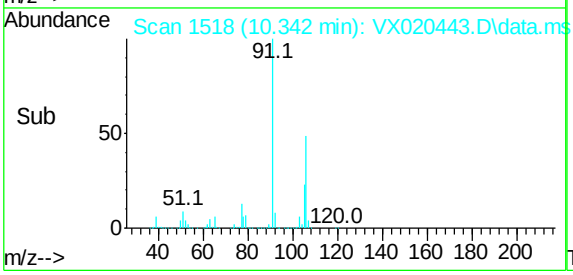


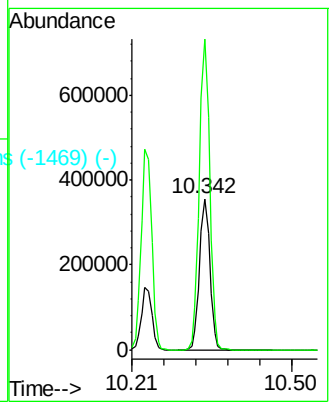
#68
m/p-Xylenes
Concen: 99.89 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.001 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

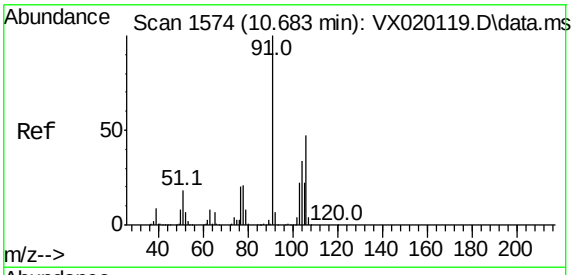
Tgt Ion:106 Resp: 470203

Ion	Ratio	Lower	Upper
106	100		
91	206.9	162.8	244.2





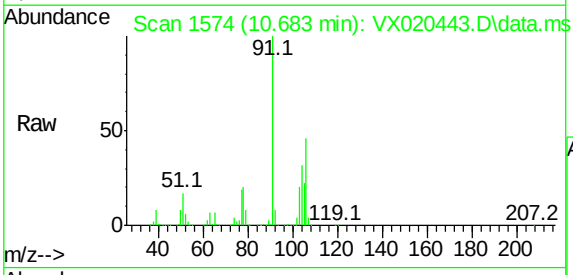


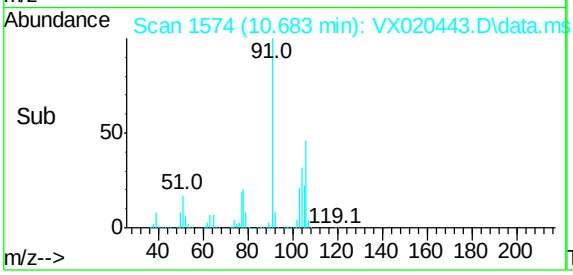


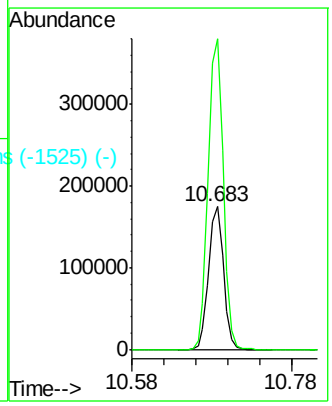
#68
o-Xylene
Concen: 49.60 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:106 Resp: 224721

Ion	Ratio	Lower	Upper
106	100		
91	221.5	108.1	324.2







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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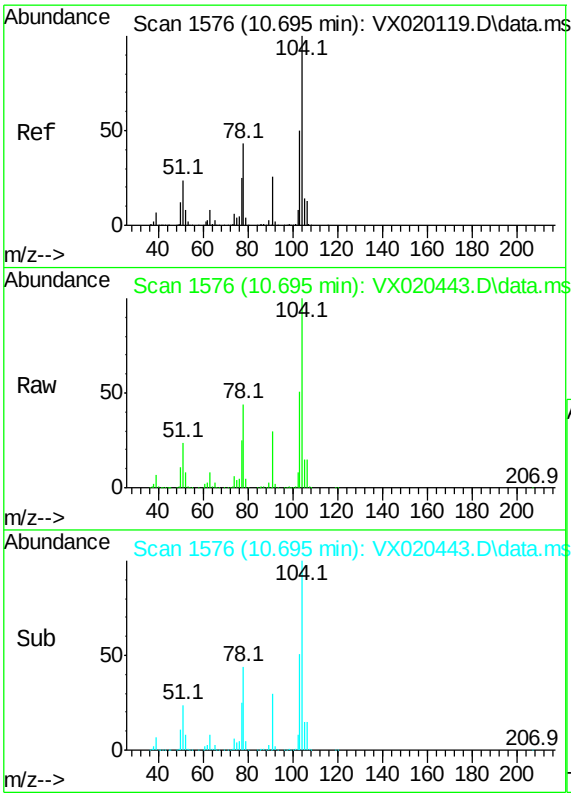
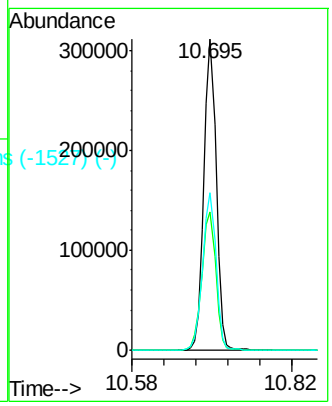
12/30/2020 2:24:00 PM

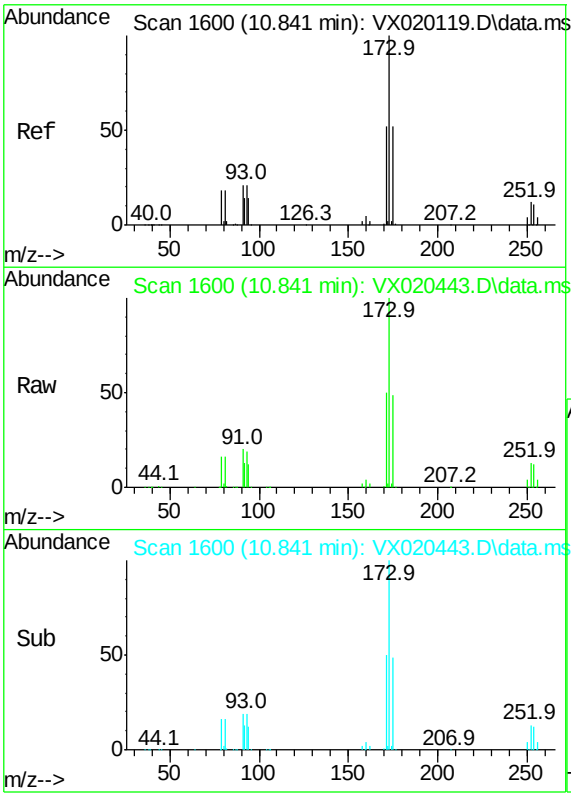


#70
Styrene
Concen: 51.63 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:104 Resp: 395421

Ion	Ratio	Lower	Upper
104	100		
78	50.4	40.0	60.0
103	55.1	43.4	65.0

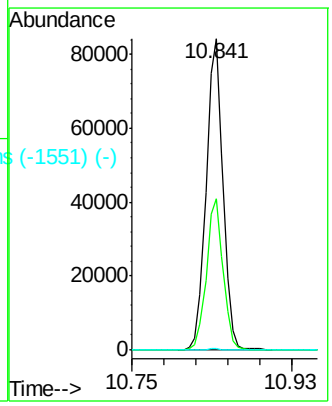




#71
Bromoform
Concen: 54.59 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:173 Resp: 109429

Ion	Ratio	Lower	Upper
173	100		
175	48.0	23.9	71.8
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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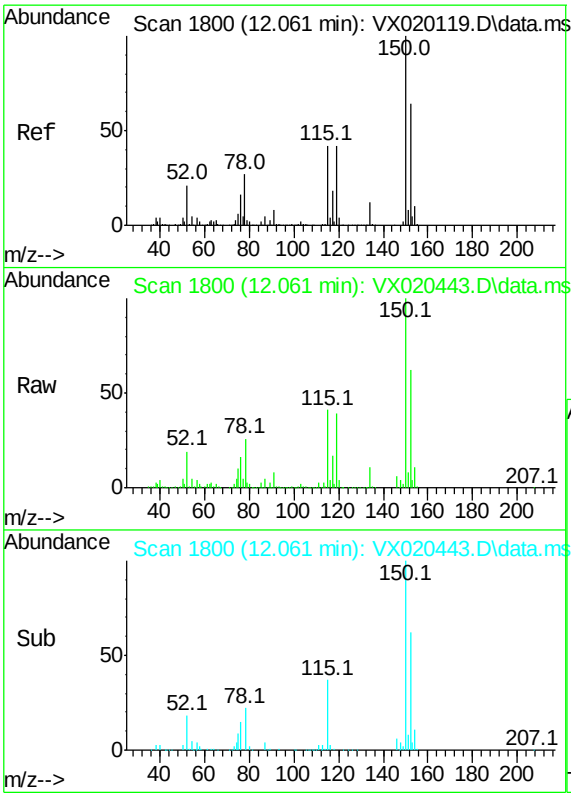
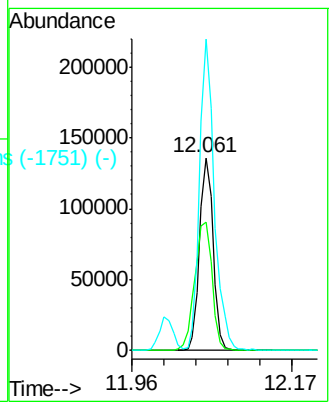
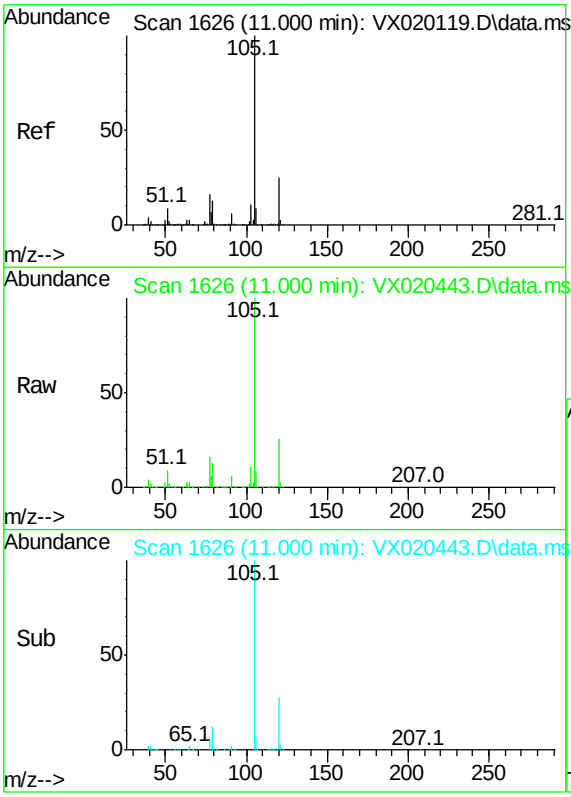


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:152 Resp: 167282

Ion	Ratio	Lower	Upper
152	100		
115	84.8	41.1	123.3
150	175.1	0.0	349.0

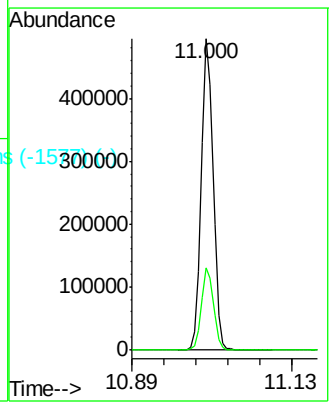




#78
Isopropylbenzene
Concen: 50.53 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:105 Resp: 610089

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.6



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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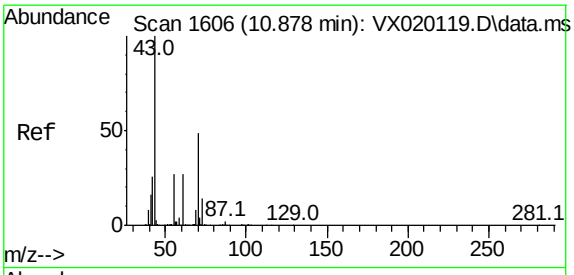
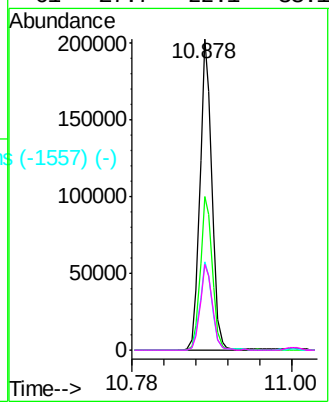
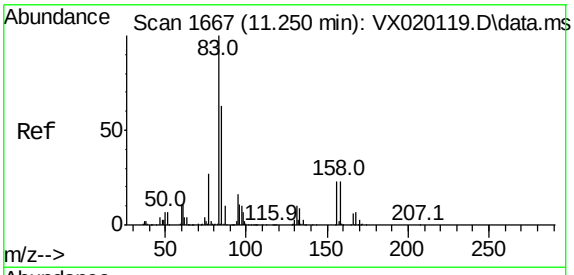


#74
N-amyl acetate
Concen: 48.45 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 43 Resp: 235761

Ion	Ratio	Lower	Upper
43	100		
70	49.7	39.0	58.6
55	28.6	21.5	32.3
61	27.7	22.1	33.1

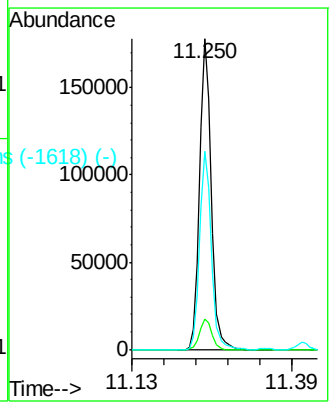




#75
1,1,2,2-Tetrachloroethane
Concen: 51.33 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 83 Resp: 225041

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.2
85	64.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
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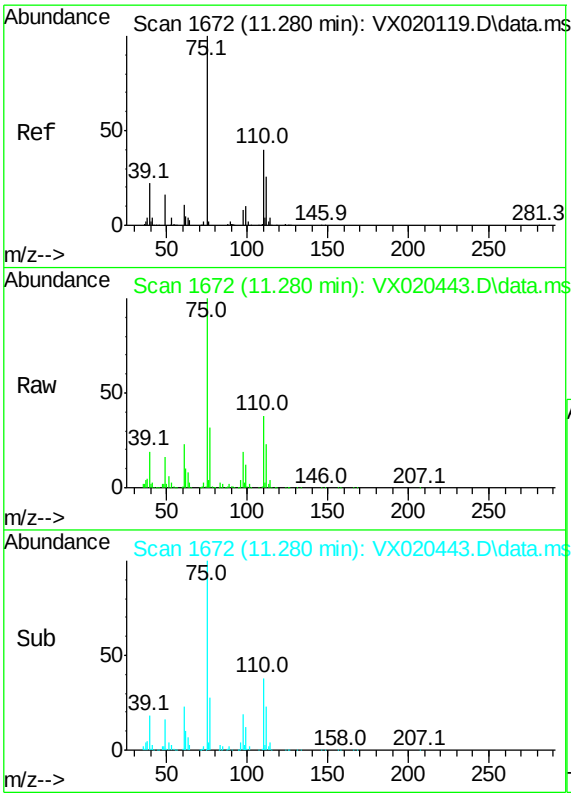
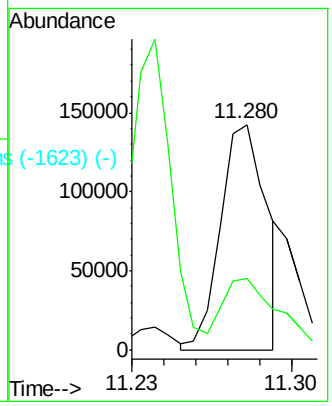
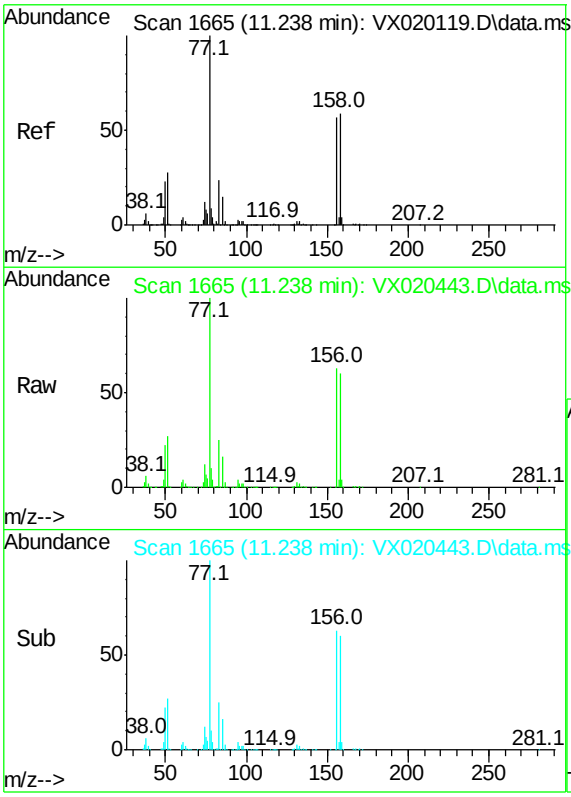


#76
1,2,3-Trichloropropane
Concen: 50.83 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 75 Resp: 209467

Ion	Ratio	Lower	Upper
75	100		
77	38.5	19.1	57.5

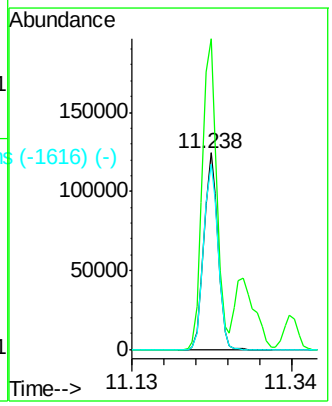




#77
Bromobenzene
Concen: 48.99 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:156 Resp: 156347

Ion	Ratio	Lower	Upper
156	100		
77	164.7	82.8	248.6
158	97.5	49.1	147.4



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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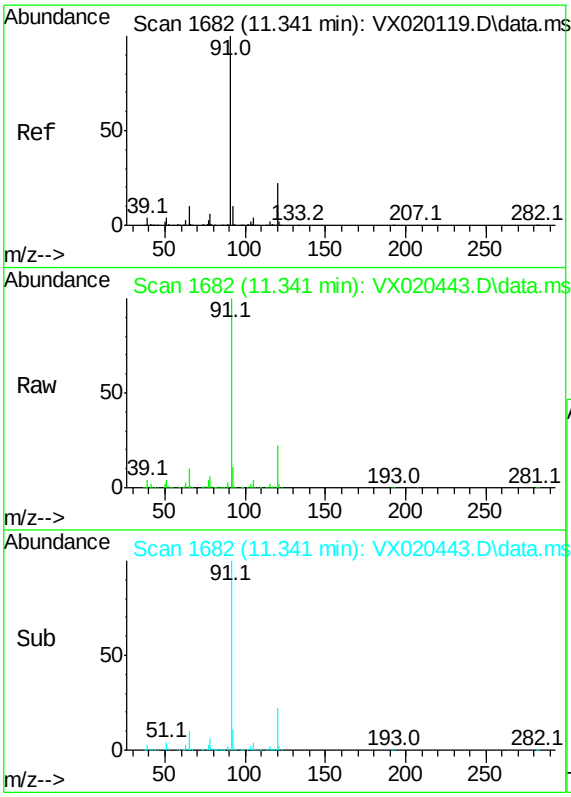
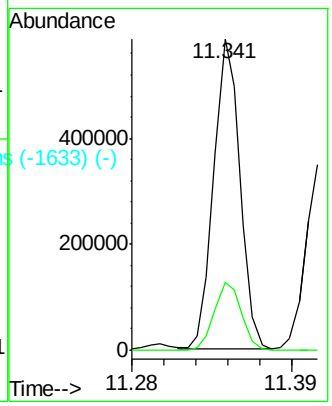
12/30/2020 2:24:00 PM

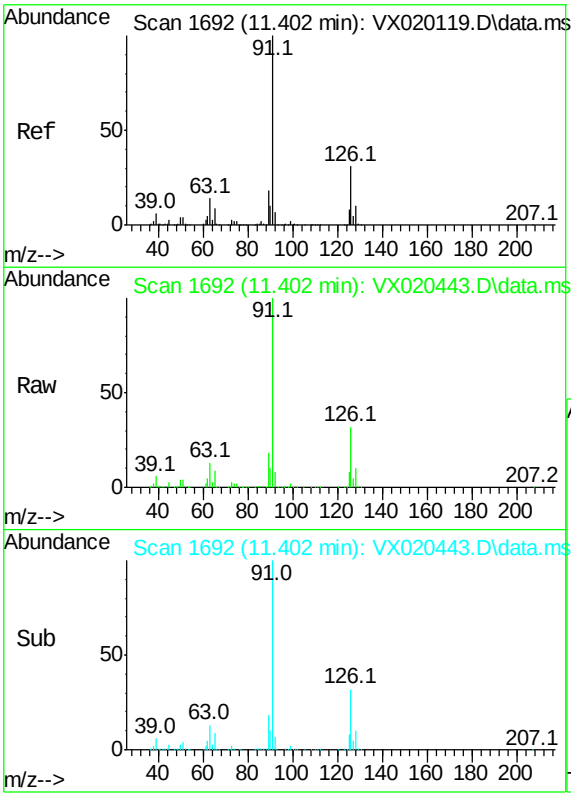


#78
n-propylbenzene
Concen: 50.24 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 91 Resp: 698986

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.5	34.5

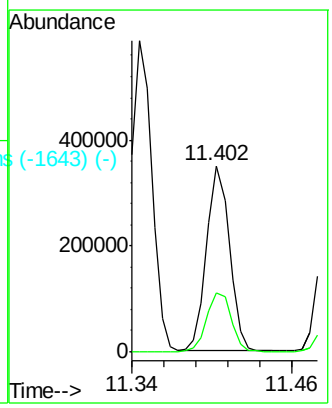




#79
2-Chlorotoluene
Concen: 49.29 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 91 Resp: 427623

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.6	49.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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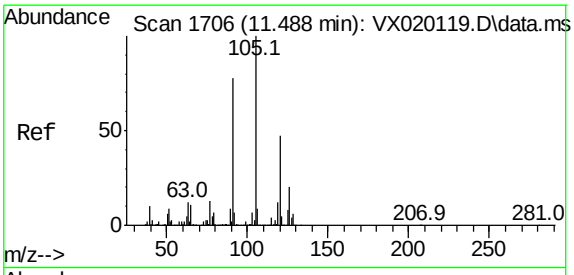
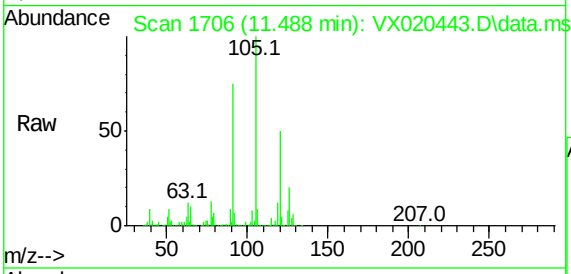
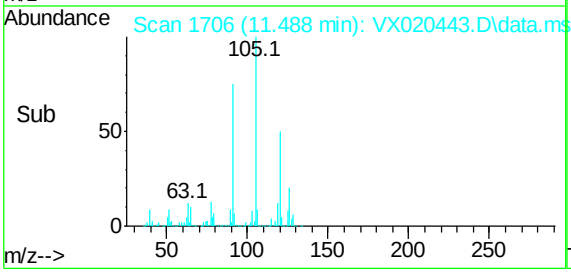


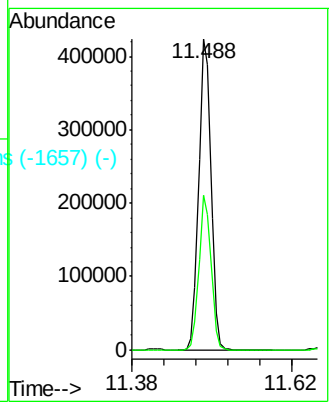
#80
1,3,5-Trimethylbenzene
Concen: 50.56 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

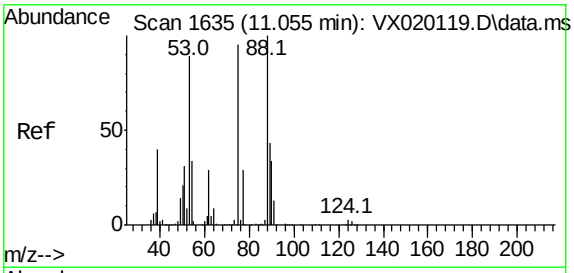
Tgt Ion:105 Resp: 517379

Ion	Ratio	Lower	Upper
105	100		
120	48.9	23.8	71.5





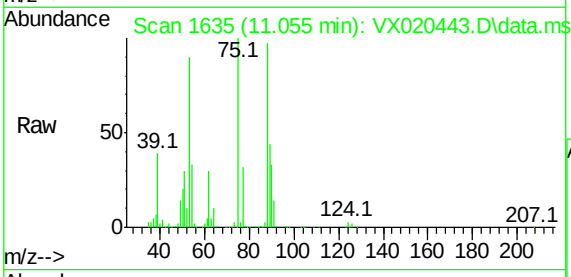


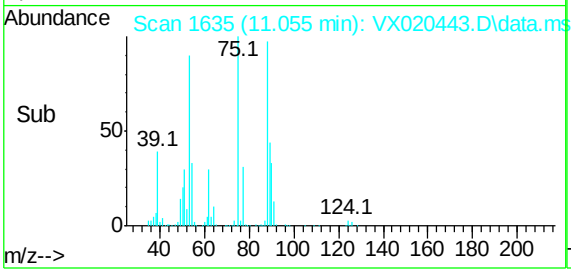


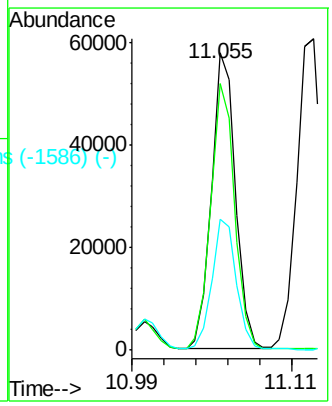
#81
trans-1,4-Dichloro-2-butene
Concen: 50.47 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 75 Resp: 70104

Ion	Ratio	Lower	Upper
75	100		
53	89.4	74.5	111.7
89	44.9	37.9	56.9







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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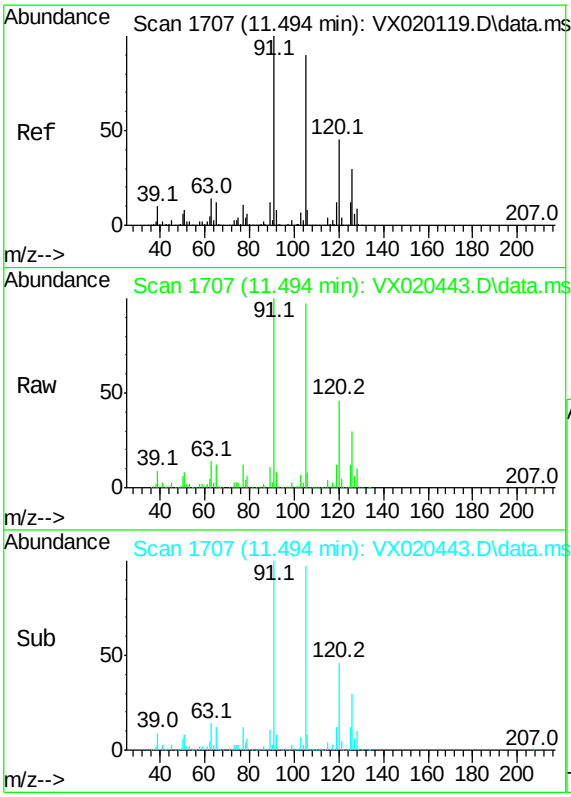
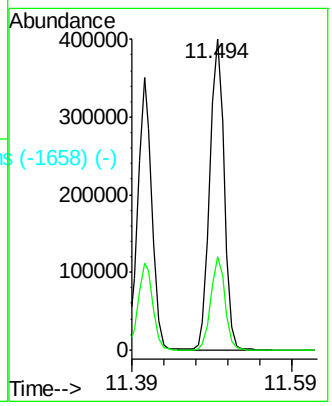
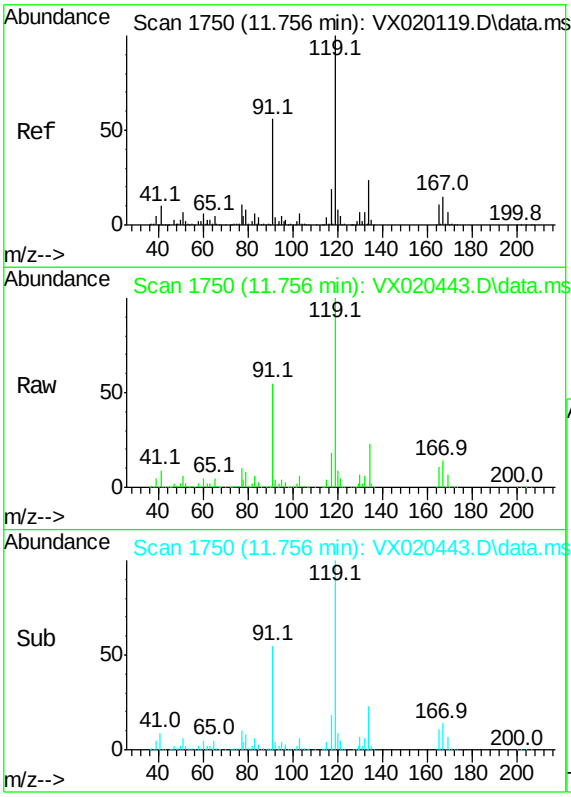


#82
4-Chlorotoluene
Concen: 49.04 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 91 Resp: 496932

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.9	44.5

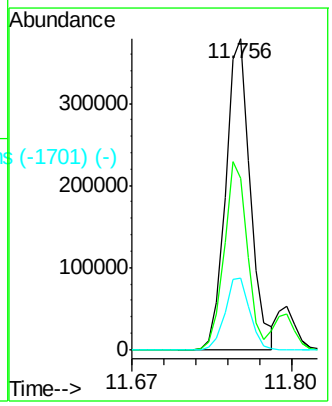




#83
tert-Butylbenzene
Concen: 51.06 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:119 Resp: 501483

Ion	Ratio	Lower	Upper
119	100		
91	56.7	27.9	83.7
134	22.9	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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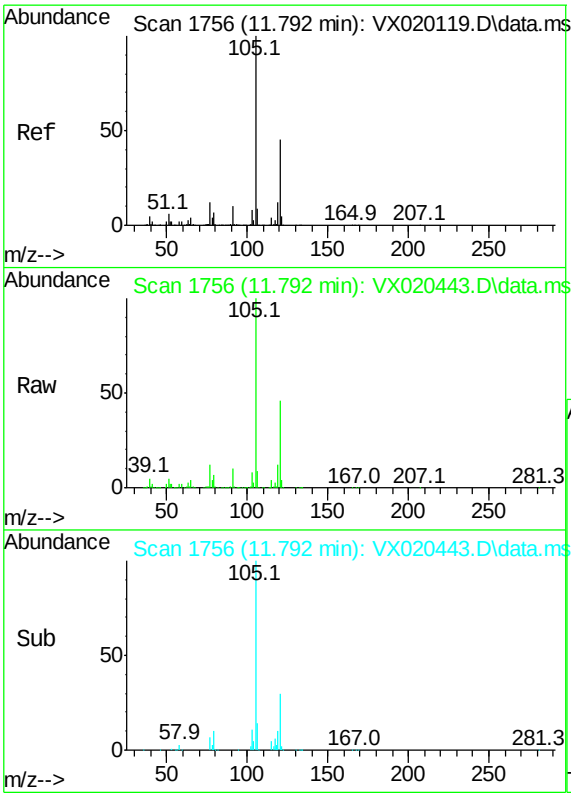
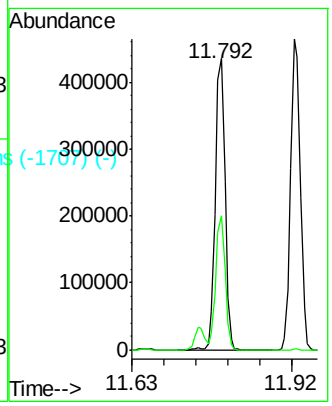
12/30/2020 2:24:00 PM

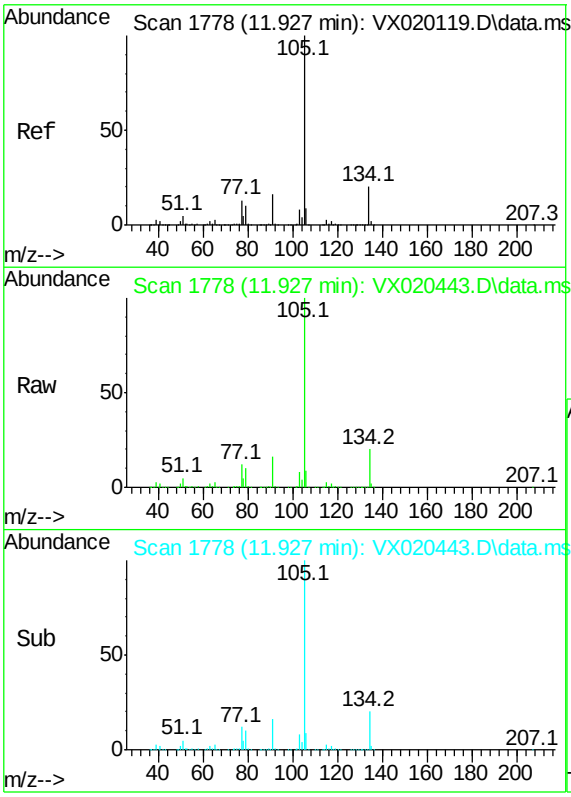
#84


1,2,4-Trimethylbenzene
Concen: 51.69 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:105 Resp: 536920

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.4	67.3

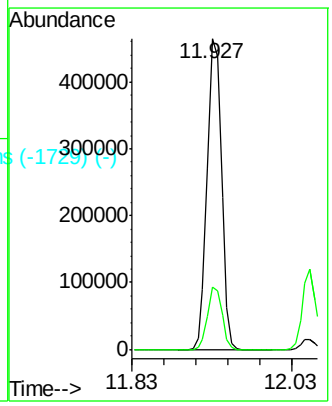


#85


sec-Butylbenzene
Concen: 51.19 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:105 Resp: 580096

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	29.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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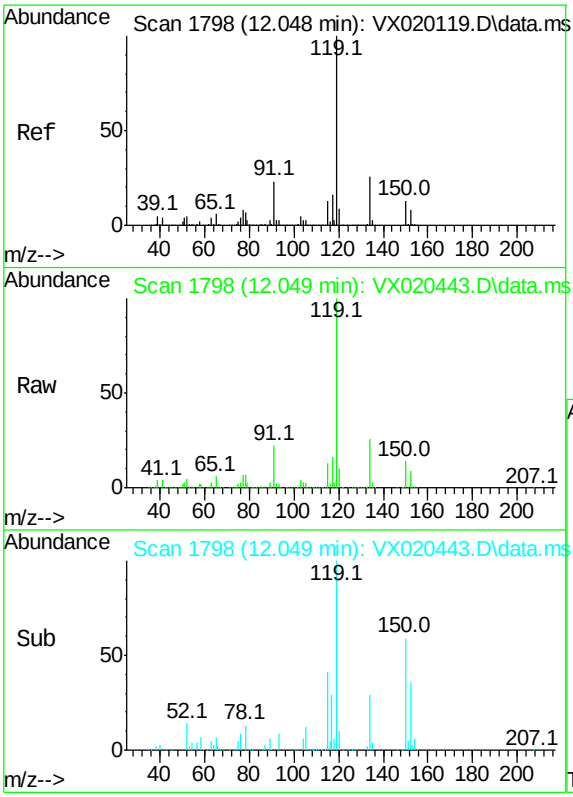
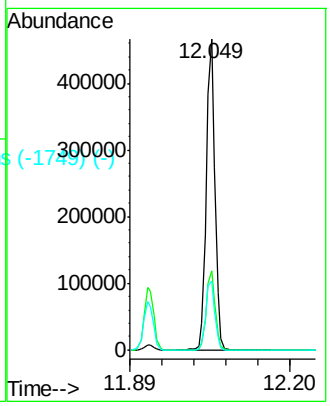
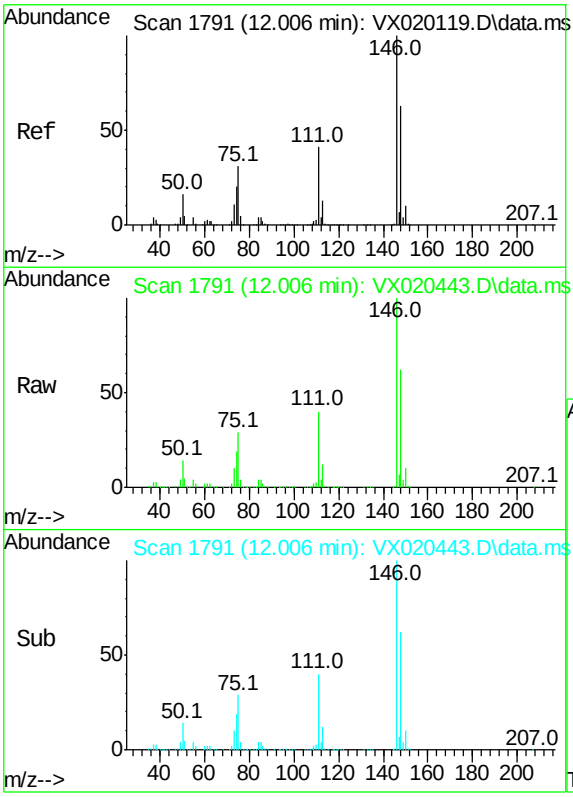


#86
p-Isopropyltoluene
Concen: 50.91 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.001 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:119 Resp: 532101

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.7
91	23.2	11.7	35.0

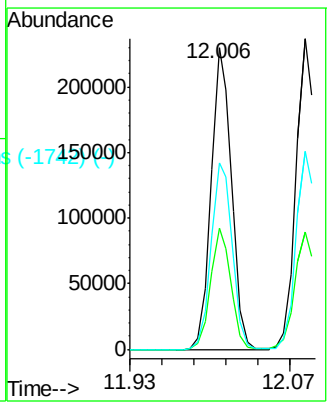




#87
1,3-Dichlorobenzene
Concen: 49.01 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:146 Resp: 279596

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.2	60.5
148	64.1	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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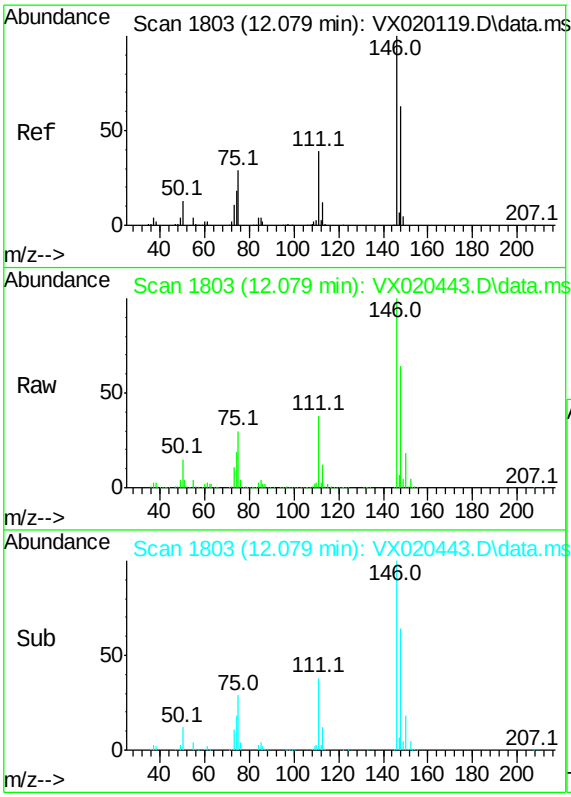
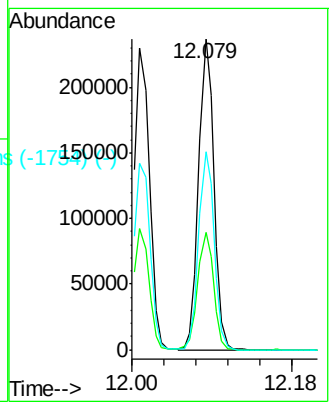
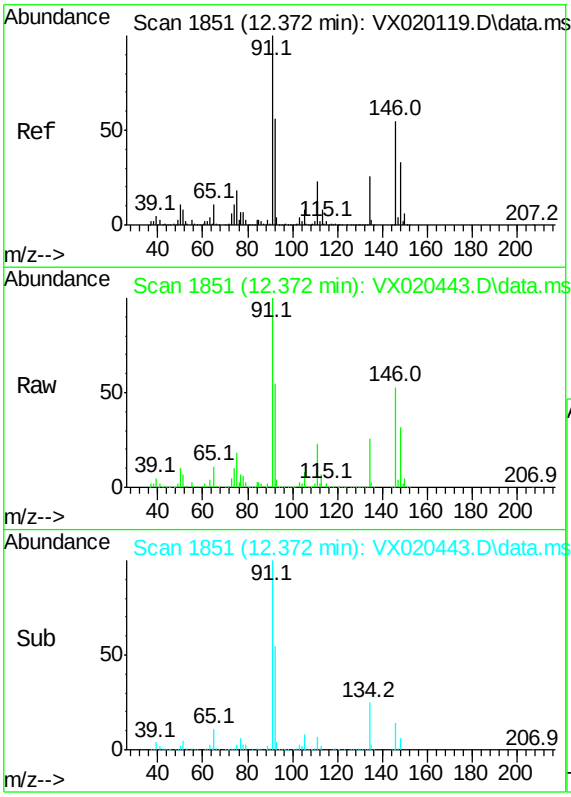


#88
1,4-Dichlorobenzene
Concen: 47.09 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:146 Resp: 280258

Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.6	58.8
148	65.0	31.6	95.0

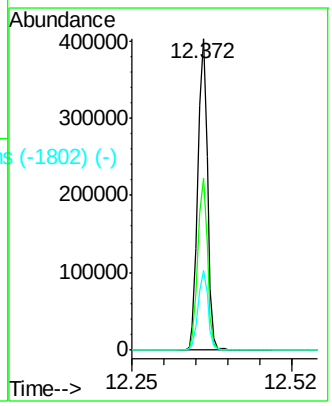




#89
n-Butylbenzene
Concen: 49.35 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 91 Resp: 451890

Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.4	82.0
134	25.8	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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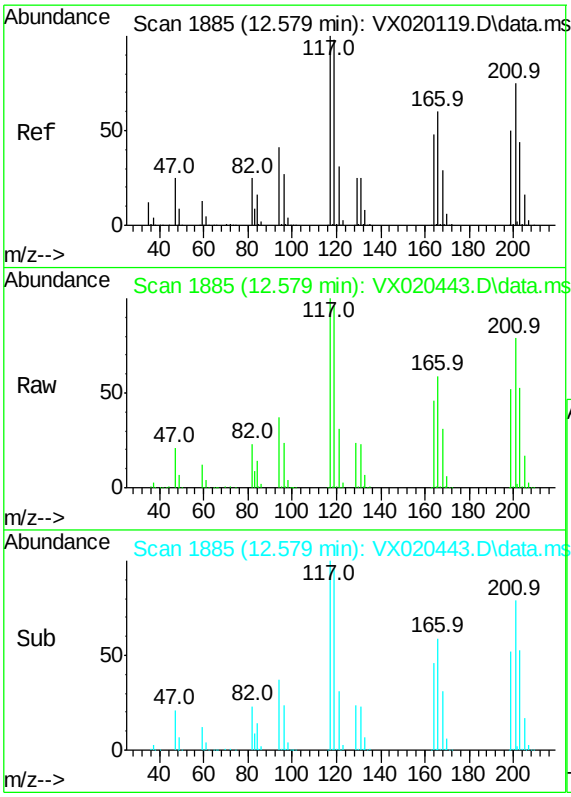
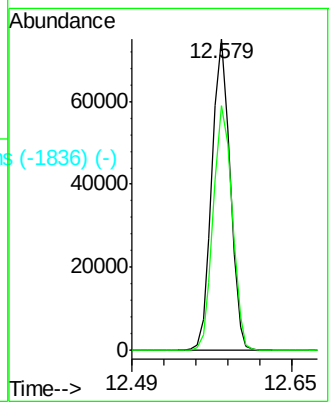
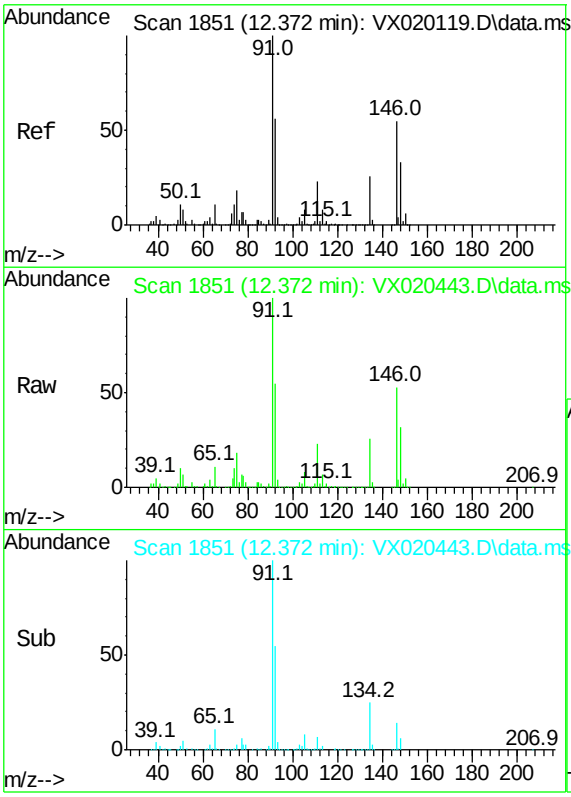


#90
Hexachloroethane
Concen: 51.28 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:117 Resp: 92465

Ion	Ratio	Lower	Upper
117	100		
201	81.4	40.4	121.2

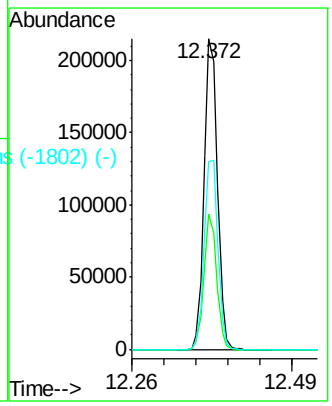




#91
1,2-Dichlorobenzene
Concen: 48.92 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:146 Resp: 277700

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.8	62.2
148	63.3	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

Manual Integrations APPROVED
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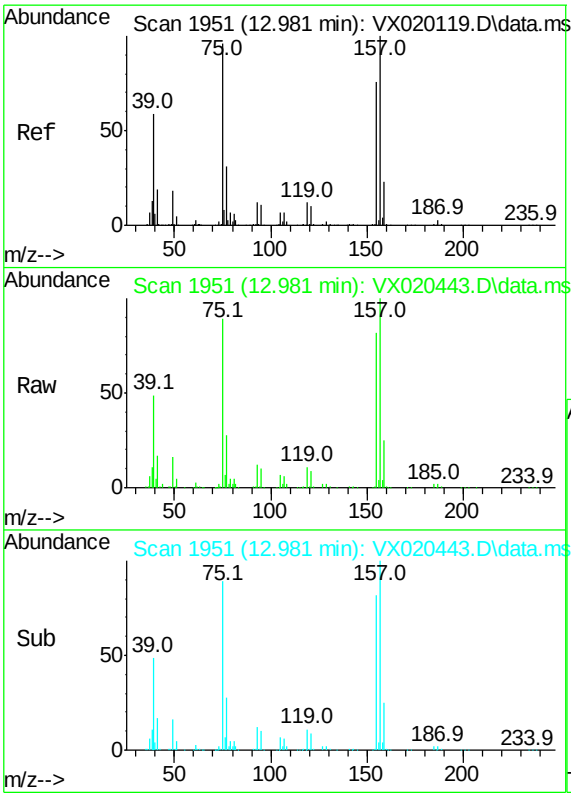
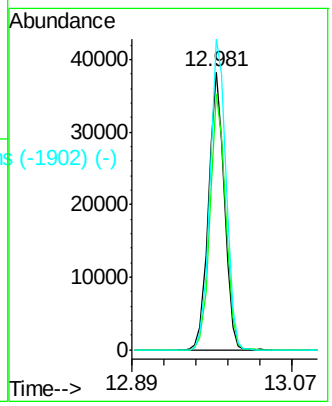
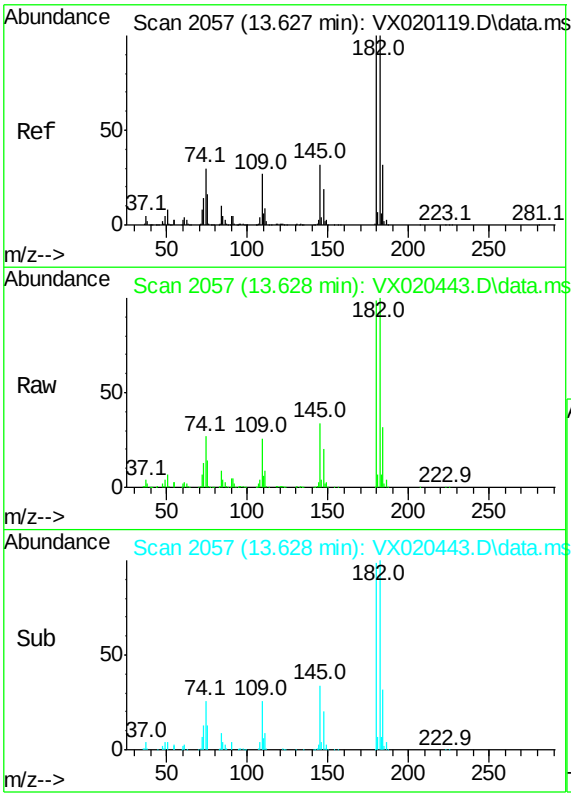


1,2-Dibromo-3-Chloropropane
Concen: 51.19 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion: 75 Resp: 47101

Ion	Ratio	Lower	Upper
75	100		
155	90.6	45.3	135.9
157	113.4	57.7	173.1

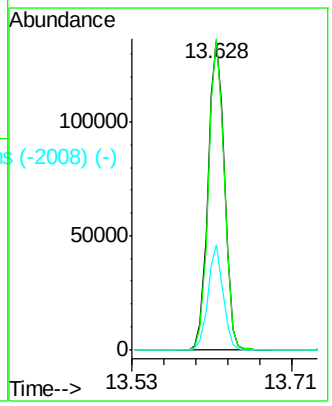




1,2,4-Trichlorobenzene
Concen: 47.13 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:180 Resp: 172075

Ion	Ratio	Lower	Upper
180	100		
182	97.6	47.7	143.1
145	31.3	15.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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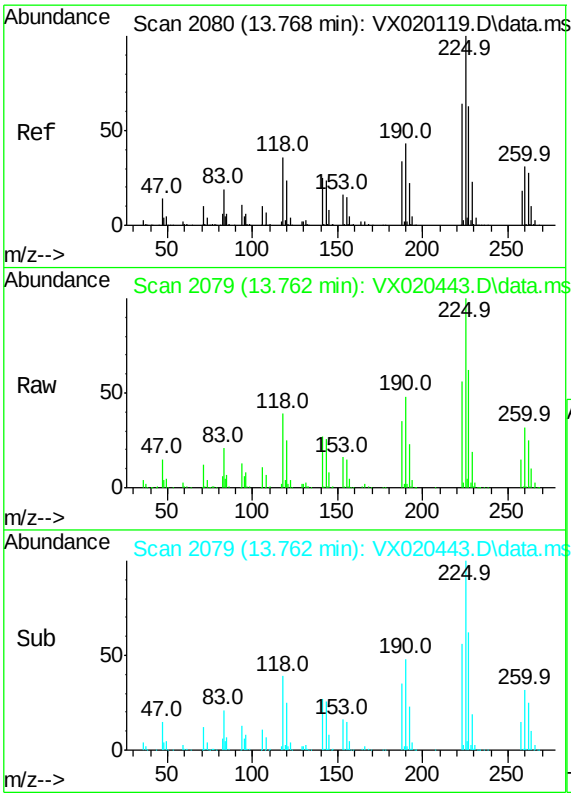
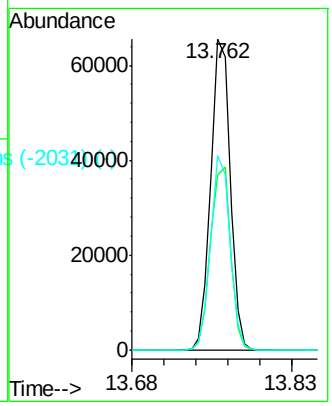
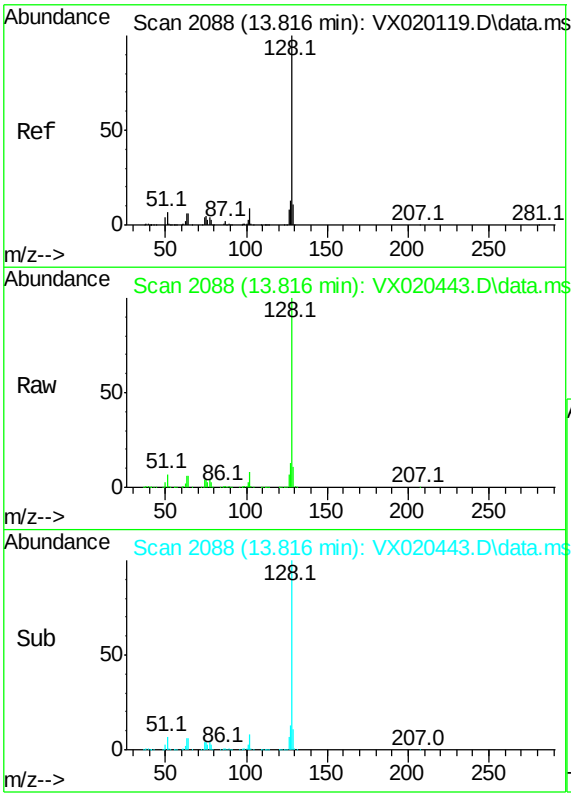


#94
Hexachlorobutadiene
Concen: 52.37 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:225 Resp: 80473

Ion	Ratio	Lower	Upper
225	100		
223	61.0	31.1	93.2
227	62.1	31.6	95.0

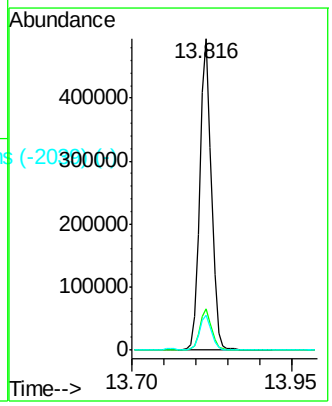


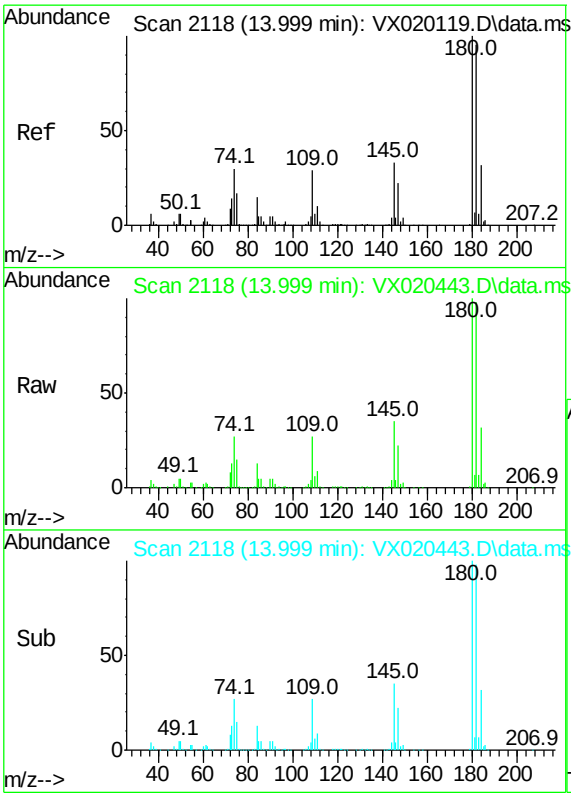


#95
Naphthalene
Concen: 51.33 ug/l
RT: 13.816 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:128 Resp: 593432

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.1	8.8	13.2

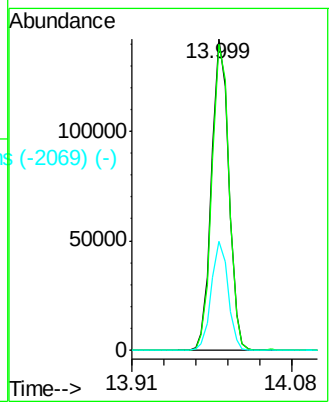




#96
1,2,3-Trichlorobenzene
Concen: 48.28 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020443.D
Acq: 29 Dec 2020 18:40

Tgt Ion:180 Resp: 174382

Ion	Ratio	Lower	Upper
180	100		
182	98.2	47.6	142.9
145	33.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MS

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)MSD	SDG No.:	L5236
Lab Sample ID:	L5236-04MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020444.D	1		12/29/20 19:04	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	44.2		0.22	1.00	ug/L
74-87-3	Chloromethane	45.7		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	45.5		0.16	1.00	ug/L
74-83-9	Bromomethane	43.9		2.10	5.00	ug/L
75-00-3	Chloroethane	43.0		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	43.7		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	46.3		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	45.4		0.18	1.00	ug/L
67-64-1	Acetone	220		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	42.9		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	47.8		0.070	1.00	ug/L
79-20-9	Methyl Acetate	50.3		0.65	1.00	ug/L
75-09-2	Methylene Chloride	44.3		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	47.0		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	47.4		0.17	1.00	ug/L
110-82-7	Cyclohexane	47.7		1.20	5.00	ug/L
78-93-3	2-Butanone	250		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	51.3		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	79.2		0.30	1.00	ug/L
74-97-5	Bromochloromethane	44.6		0.31	1.00	ug/L
67-66-3	Chloroform	47.2		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	47.8		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	48.5		0.17	1.00	ug/L
71-43-2	Benzene	50.1		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	46.9		0.13	1.00	ug/L
79-01-6	Trichloroethene	89.9		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	51.1		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	51.5		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.85	5.00	ug/L
108-88-3	Toluene	51.8		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	50.8		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	50.7		0.16	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)MSD	SDG No.:	L5236
Lab Sample ID:	L5236-04MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020444.D	1		12/29/20 19:04	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	51.7		0.12	1.00	ug/L
591-78-6	2-Hexanone	280		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	54.1		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	51.7		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	120		0.15	1.00	ug/L
108-90-7	Chlorobenzene	49.2		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	50.1		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.20	2.00	ug/L
95-47-6	o-Xylene	51.2		0.13	1.00	ug/L
100-42-5	Styrene	52.8		0.11	1.00	ug/L
75-25-2	Bromoform	54.5		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	50.4		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.1		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	48.1		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	46.4		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	48.8		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	51.9		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	48.5		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	49.3		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.8		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.2		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	218000	5.629			
540-36-3	1,4-Difluorobenzene	346000	6.83			
3114-55-4	Chlorobenzene-d5	333000	10.098			
3855-82-1	1,4-Dichlorobenzene-d4	169000	12.061			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	12/28/20
Project:	Andrew St. RI	Date Received:	12/29/20
Client Sample ID:	1016-MW-02(23.8)MSD	SDG No.:	L5236
Lab Sample ID:	L5236-04MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX020444.D	1		12/29/20 19:04	VX122920

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020444.D
Acq On : 29 Dec 2020 19:04
Operator : JC/MD
Sample : L5236-04MSD
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 02:40:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	218151	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	346095	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	333083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	169214	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	130892	44.76	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 89.52%			
35) Dibromofluoromethane	5.464	113	110920	50.10	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 100.20%			
50) Toluene-d8	8.695	98	428176	50.24	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 100.48%			
62) 4-Bromofluorobenzene	11.122	95	168085	51.53	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 103.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	104614	44.15	ug/l	99
3) Chloromethane	1.313	50	125600	45.72	ug/l	99
4) Vinyl Chloride	1.392	62	136086	45.47	ug/l	99
5) Bromomethane	1.624	94	42078	43.89	ug/l	98
6) Chloroethane	1.703	64	80121	42.99	ug/l	100
7) Trichlorofluoromethane	1.910	101	168008	43.66	ug/l	97
8) Diethyl Ether	2.166	74	71862	42.90	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.361	101	100824	46.30	ug/l	98
10) Methyl Iodide	2.489	142	136898	46.86	ug/l	98
11) Tert butyl alcohol	3.020	59	160158	244.59	ug/l	99
12) 1,1-Dichloroethene	2.349	96	101192	45.41	ug/l	95
13) Acrolein	2.270	56	83520	204.12	ug/l	99
14) Allyl chloride	2.703	41	182859	46.23	ug/l	91
15) Acrylonitrile	3.117	53	389224	258.36	ug/l	99
16) Acetone	2.422	43	291907	218.91	ug/l	97
17) Carbon Disulfide	2.544	76	282359	42.89	ug/l	99
18) Methyl Acetate	2.751	43	149537	50.28	ug/l	99
19) Methyl tert-butyl Ether	3.166	73	398277	47.75	ug/l	99
20) Methylene Chloride	2.831	84	133241	44.32	ug/l	98
21) trans-1,2-Dichloroethene	3.142	96	126993	46.97	ug/l	97
22) Diisopropyl ether	3.824	45	388466	48.12	ug/l	94
23) Vinyl Acetate	3.782	43	1559323	226.64	ug/l	99
24) 1,1-Dichloroethane	3.666	63	225350	47.40	ug/l	99
25) 2-Butanone	4.635	43	489295	252.12	ug/l	100
26) 2,2-Dichloropropane	4.544	77	154597	39.41	ug/l	93
27) cis-1,2-Dichloroethene	4.562	96	241705	79.20	ug/l	94
28) Bromochloromethane	4.977	49	94508	44.64	ug/l	98
29) Tetrahydrofuran	5.092	42	318183	260.60	ug/l	98
30) Chloroform	5.178	83	228279	47.16	ug/l	100
31) Cyclohexane	5.544	56	192161	47.66	ug/l	97
32) 1,1,1-Trichloroethane	5.458	97	193003	47.81	ug/l	99
36) 1,1-Dichloropropene	5.769	75	164508	48.10	ug/l	100
37) Ethyl Acetate	4.794	43	175564	49.39	ug/l	100
38) Carbon Tetrachloride	5.751	117	166919	51.31	ug/l	99
39) Methylcyclohexane	7.440	83	191395	48.48	ug/l	97
40) Benzene	6.111	78	532886	50.05	ug/l	100
41) Methacrylonitrile	5.007	41	100719	53.18	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020444.D
Acq On : 29 Dec 2020 19:04
Operator : JC/MD
Sample : L5236-04MSD
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 02:40:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	6.159	62	171276	46.89	ug/l		99
43) Isopropyl Acetate	6.409	43	277620	49.47	ug/l		99
44) Trichloroethene	7.184	130	247389	89.88	ug/l		99
45) 1,2-Dichloropropane	7.488	63	137423	51.07	ug/l		98
46) Dibromomethane	7.635	93	87962	47.79	ug/l		97
47) Bromodichloromethane	7.872	83	180838	51.53	ug/l		99
48) Methyl methacrylate	7.744	41	144934	52.70	ug/l		96
49) 1,4-Dioxane	7.714	88	73669	1144.42	ug/l		97
51) 4-Methyl-2-Pentanone	8.622	43	973301	280.15	ug/l		99
52) Toluene	8.763	92	336848	51.84	ug/l		98
53) t-1,3-Dichloropropene	9.019	75	196231	50.84	ug/l		98
54) cis-1,3-Dichloropropene	8.415	75	215027	50.74	ug/l		95
55) 1,1,2-Trichloroethane	9.195	97	138571	51.71	ug/l		98
56) Ethyl methacrylate	9.159	69	215727	55.00	ug/l		96
57) 1,3-Dichloropropane	9.348	76	235449	51.61	ug/l		99
59) 2-Hexanone	9.470	43	747419	282.31	ug/l		99
60) Dibromochloromethane	9.561	129	143843	54.09	ug/l		100
61) 1,2-Dibromoethane	9.653	107	144546	51.65	ug/l		99
64) Tetrachloroethene	9.317	164	296193	118.02	ug/l		96
65) Chlorobenzene	10.122	112	351393	49.17	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.201	131	134347	52.39	ug/l		99
67) Ethyl Benzene	10.232	91	626349	50.14	ug/l		99
68) m/p-Xylenes	10.342	106	474922	101.84	ug/l		98
69) o-Xylene	10.683	106	229668	51.17	ug/l		98
70) Styrene	10.695	104	400519	52.79	ug/l		99
71) Bromoform	10.841	173	108184	54.48	ug/l	#	97
73) Isopropylbenzene	11.000	105	614994	50.36	ug/l		99
74) N-amyl acetate	10.878	43	234207	47.58	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.250	83	226579	51.09	ug/l		99
76) 1,2,3-Trichloropropane	11.280	75	209362m	50.23	ug/l		
77) Bromobenzene	11.238	156	156448	48.46	ug/l		99
78) n-propylbenzene	11.341	91	701999	49.88	ug/l		100
79) 2-Chlorotoluene	11.402	91	430582	49.06	ug/l		98
80) 1,3,5-Trimethylbenzene	11.488	105	525973	50.81	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.055	75	69359	49.37	ug/l		97
82) 4-Chlorotoluene	11.494	91	499890	48.77	ug/l		99
83) tert-Butylbenzene	11.756	119	505253	50.86	ug/l		99
84) 1,2,4-Trimethylbenzene	11.792	105	534526	50.87	ug/l		100
85) sec-Butylbenzene	11.927	105	582114	50.78	ug/l		100
86) p-Isopropyltoluene	12.049	119	533270	50.44	ug/l		100
87) 1,3-Dichlorobenzene	12.006	146	277804	48.14	ug/l		99
88) 1,4-Dichlorobenzene	12.079	146	279407	46.41	ug/l		98
89) n-Butylbenzene	12.372	91	454732	49.09	ug/l		100
90) Hexachloroethane	12.579	117	92802	50.88	ug/l		97
91) 1,2-Dichlorobenzene	12.372	146	280417	48.83	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.981	75	48296	51.89	ug/l		97
93) 1,2,4-Trichlorobenzene	13.628	180	179086	48.49	ug/l		99
94) Hexachlorobutadiene	13.762	225	80368	51.74	ug/l		98
95) Naphthalene	13.817	128	625020	53.44	ug/l		99
96) 1,2,3-Trichlorobenzene	13.999	180	180257	49.34	ug/l		99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122920\
Data File : VX020444.D
Acq On : 29 Dec 2020 19:04
Operator : JC/MD
Sample : L5236-04MSD
Misc : 5.0mL/MSVOA_X/wATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 02:40:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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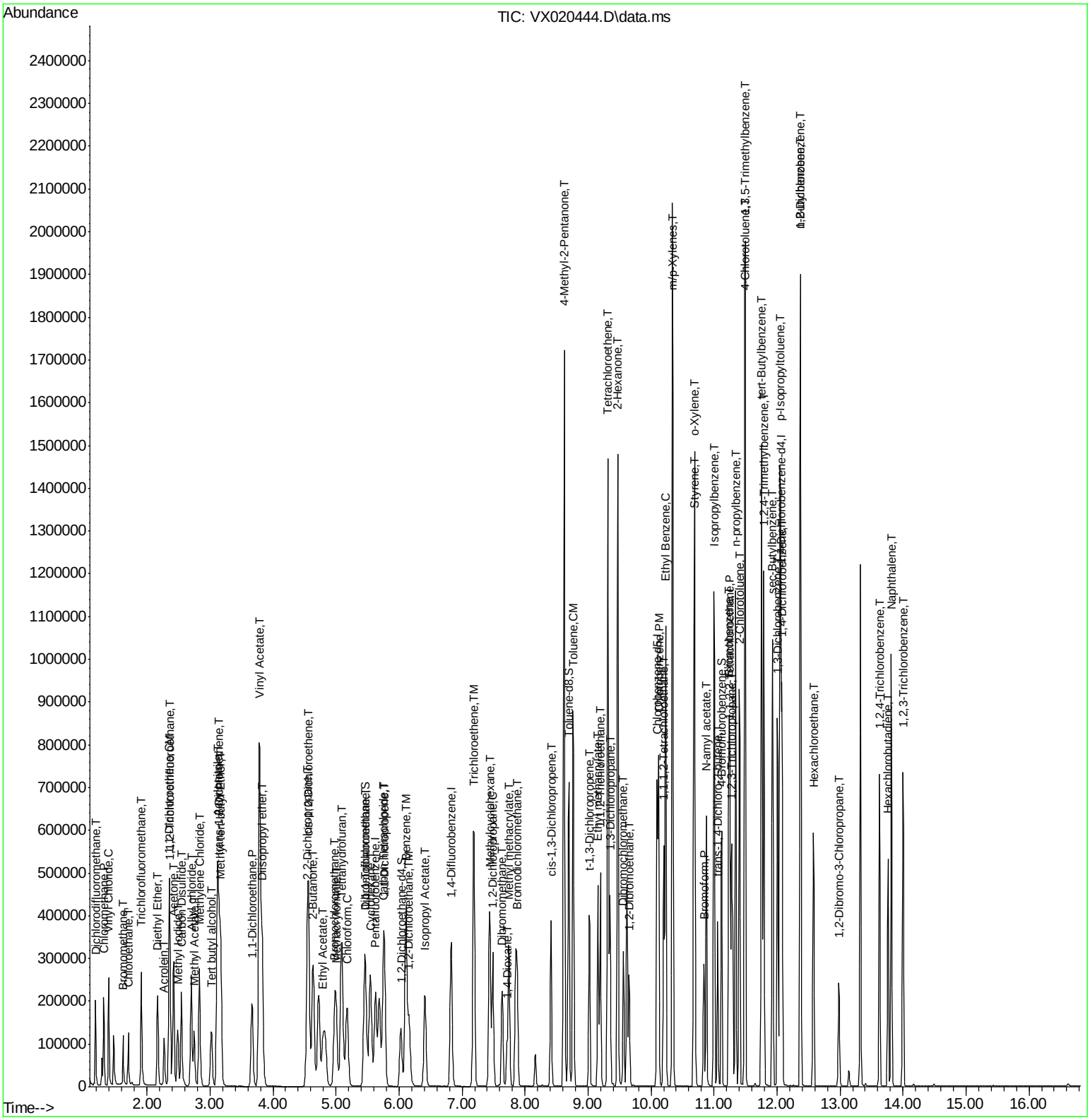
12/30/2020 2:24:07 PM



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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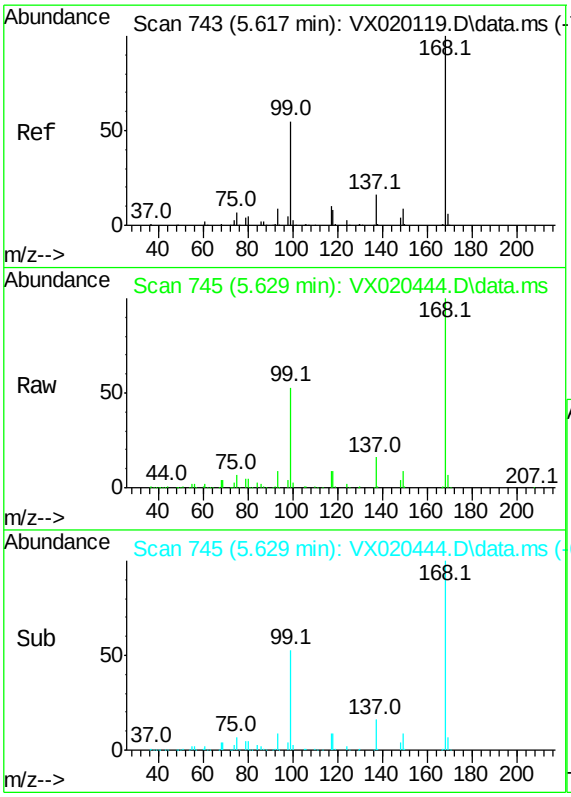
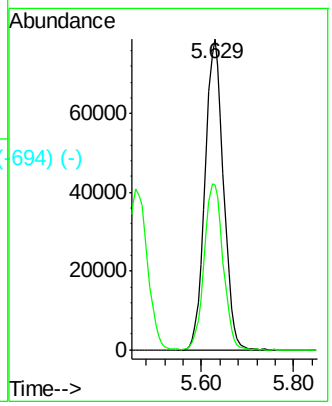
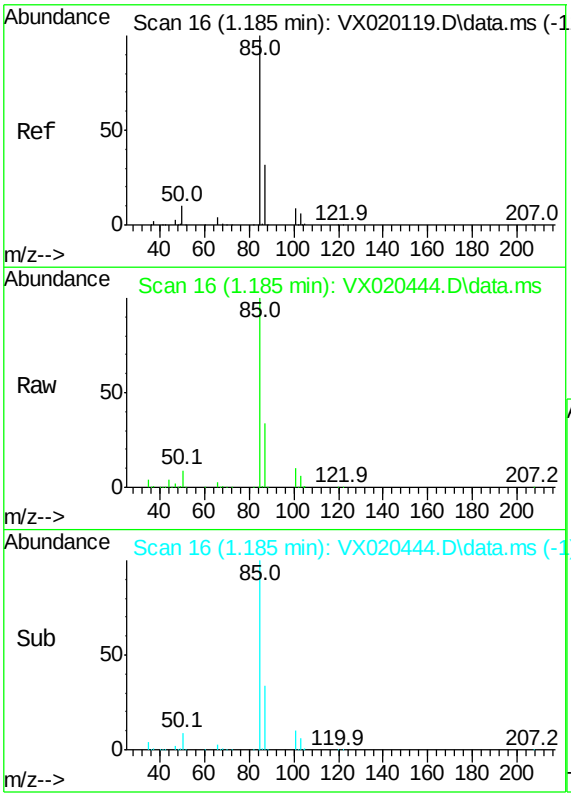


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:168 Resp: 218151

Ion	Ratio	Lower	Upper
168	100		
99	53.1	45.8	68.6

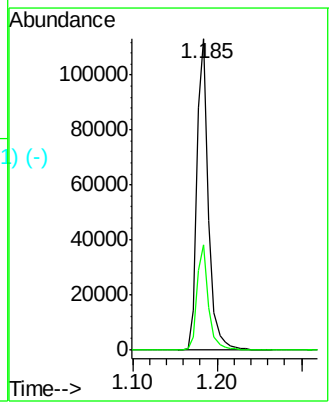




#2
Dichlorodifluoromethane
Concen: 44.15 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 85 Resp: 104614

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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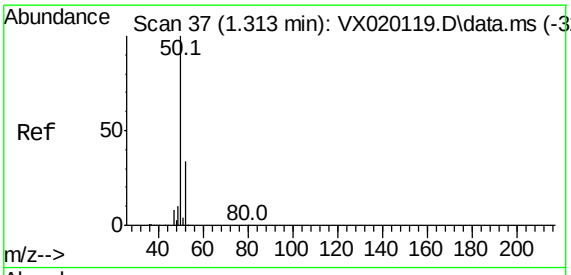
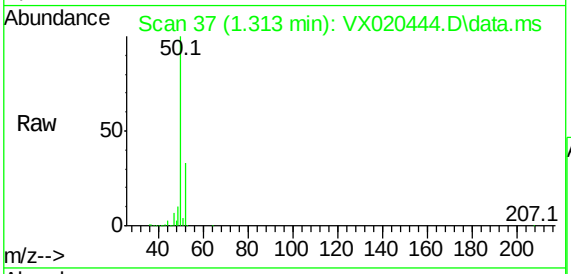
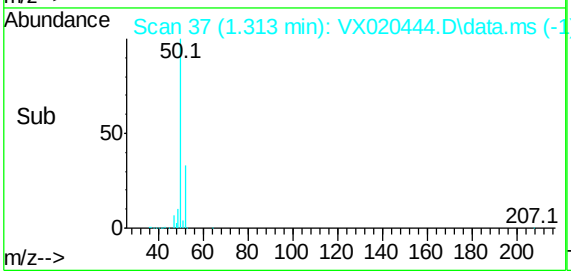


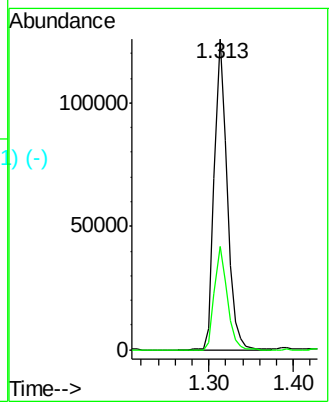
#3
Chloromethane
Concen: 45.72 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

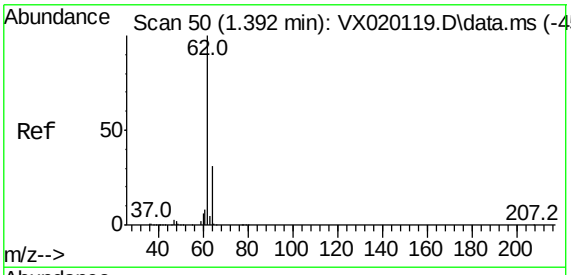
Tgt Ion: 50 Resp: 125600

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.4	39.6





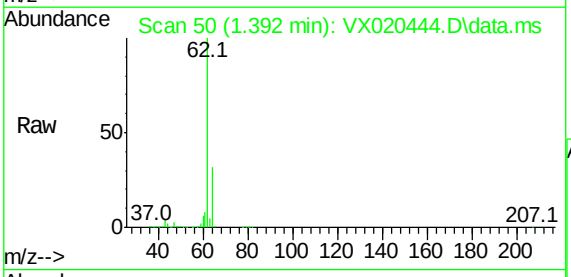


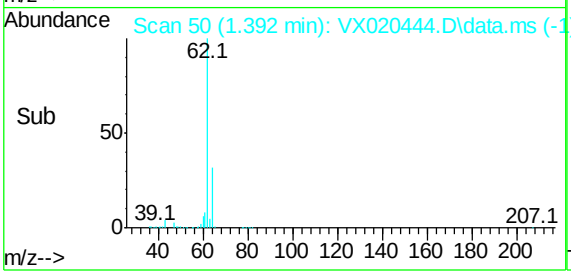


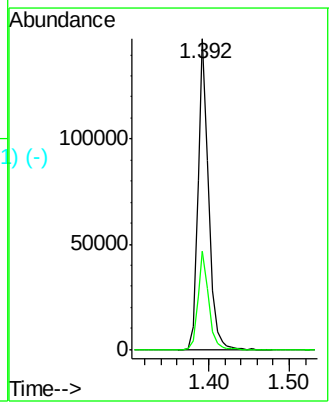
#4
Vinyl Chloride
Concen: 45.47 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 62 Resp: 136086

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.7	38.5







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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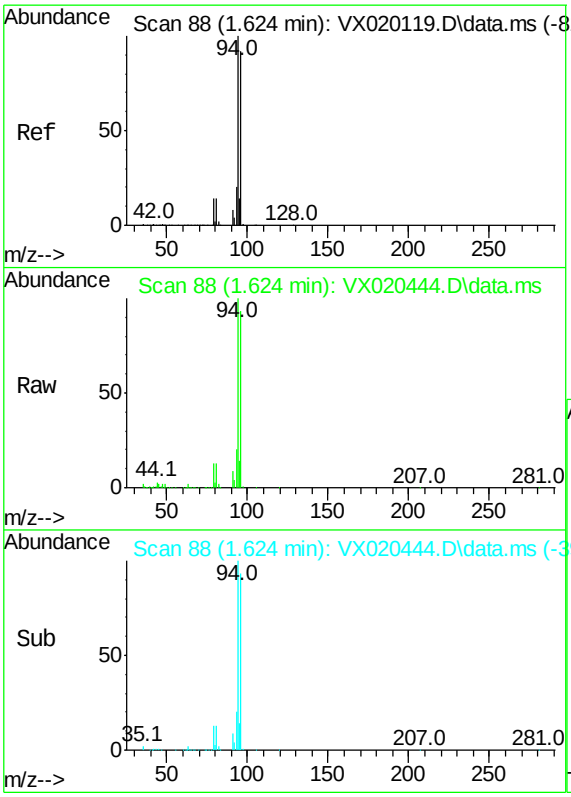
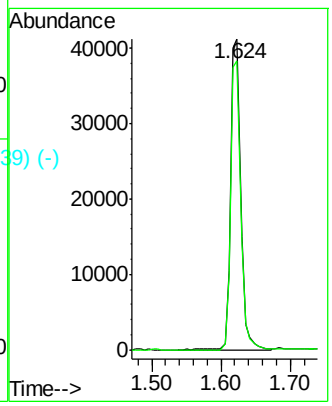
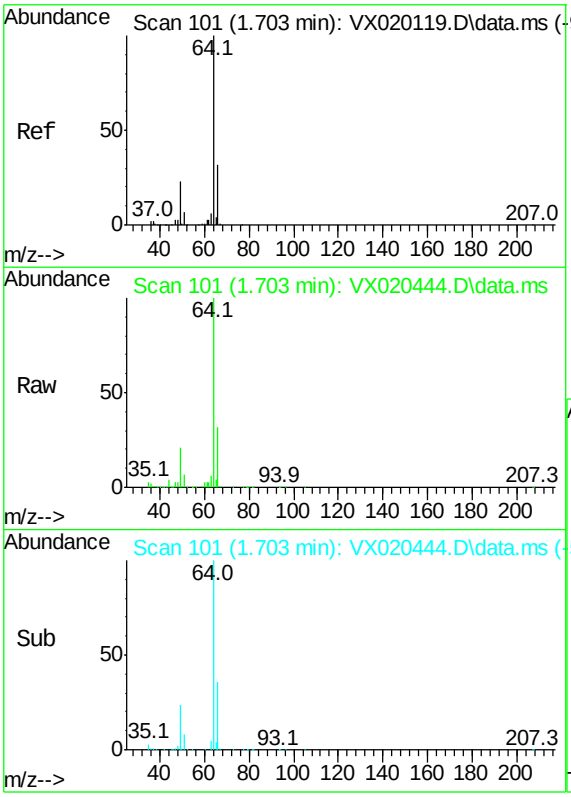


#5
Bromomethane
Concen: 43.89 ug/l
RT: 1.624 min Scan# 88
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 94 Resp: 42078

Ion	Ratio	Lower	Upper
94	100		
96	93.1	76.4	114.6

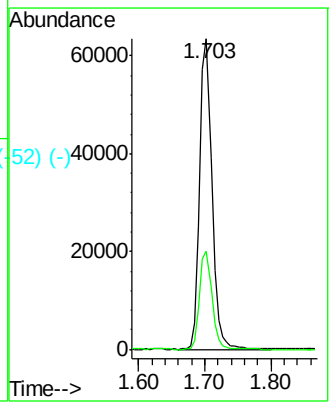




#6
Chloroethane
Concen: 42.99 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 64 Resp: 80121

Ion	Ratio	Lower	Upper
64	100		
66	31.6	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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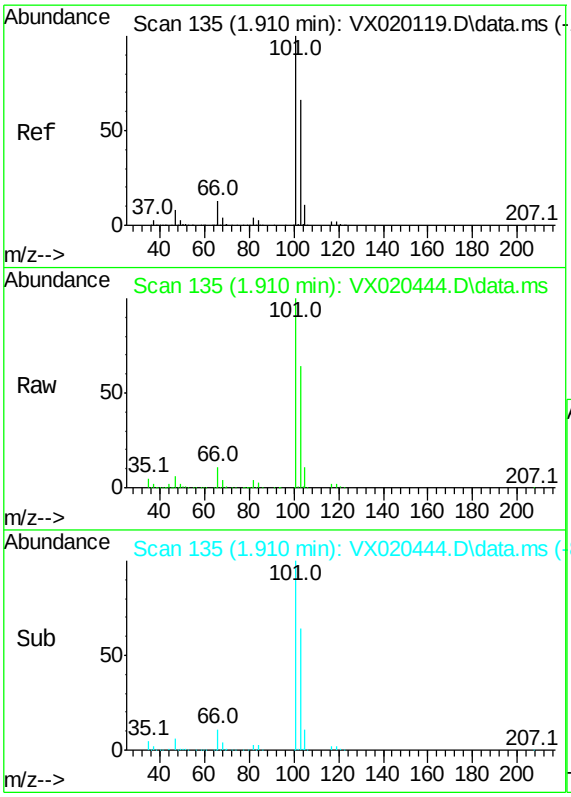
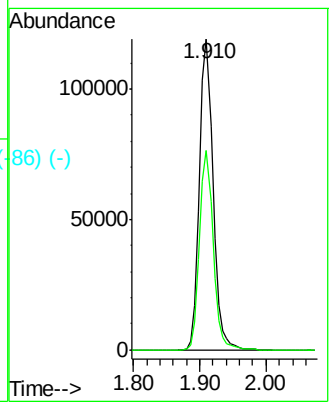
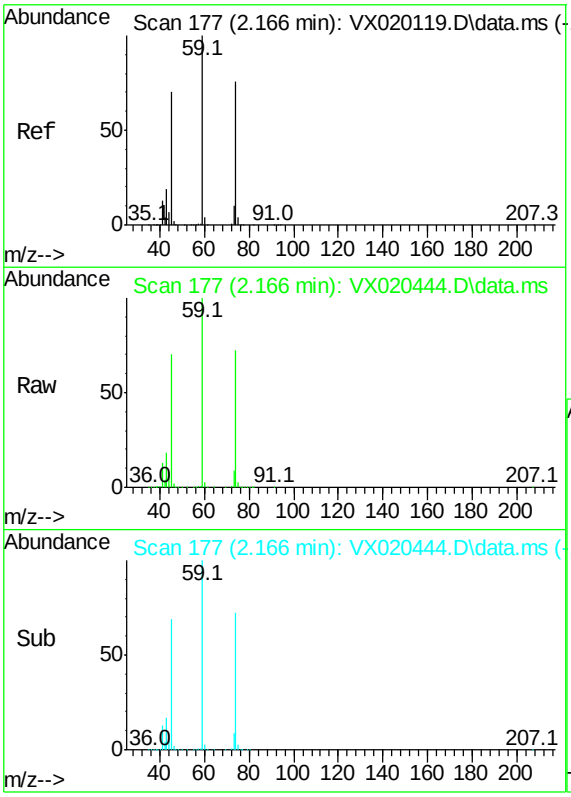


#7
Trichlorofluoromethane
Concen: 43.66 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:101 Resp: 168008

Ion	Ratio	Lower	Upper
101	100		
103	64.3	53.2	79.8

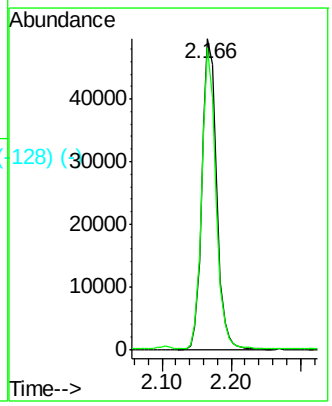




#8
Diethyl Ether
Concen: 42.90 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 74 Resp: 71862

Ion	Ratio	Lower	Upper
74	100		
45	92.6	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
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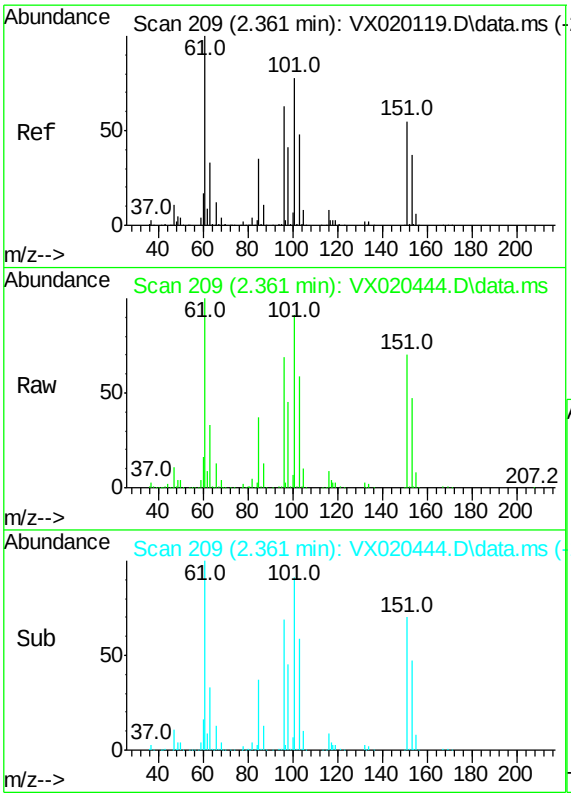
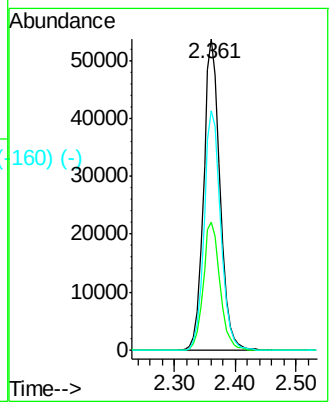
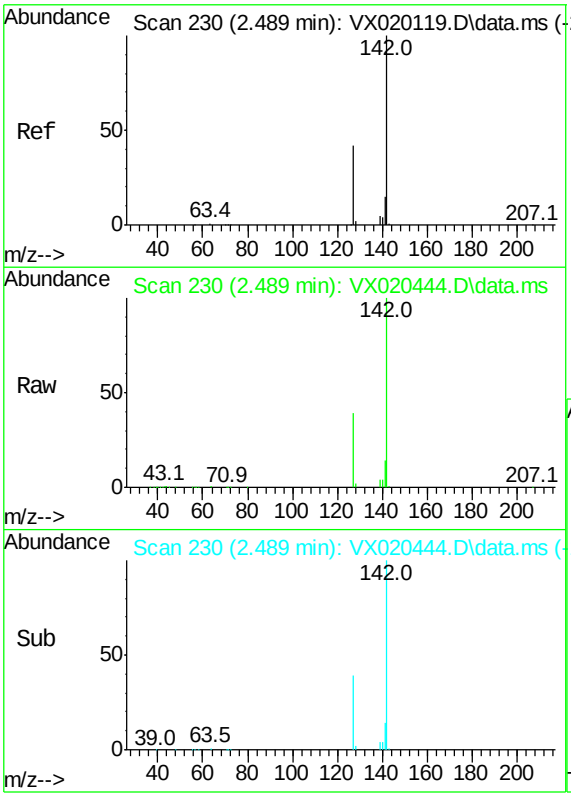


#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.30 ug/l
RT: 2.361 min Scan# 209
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:101 Resp: 100824

Ion	Ratio	Lower	Upper
101	100		
85	41.7	34.9	52.3
151	78.0	61.4	92.2

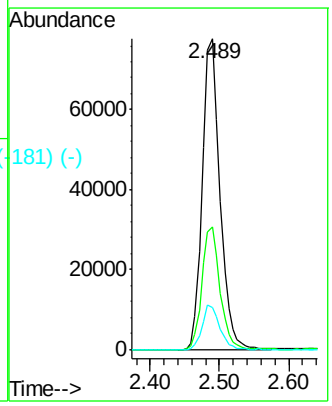




#10
Methyl Iodide
Concen: 46.86 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:142 Resp: 136898

Ion	Ratio	Lower	Upper
142	100		
127	40.1	33.3	49.9
141	14.0	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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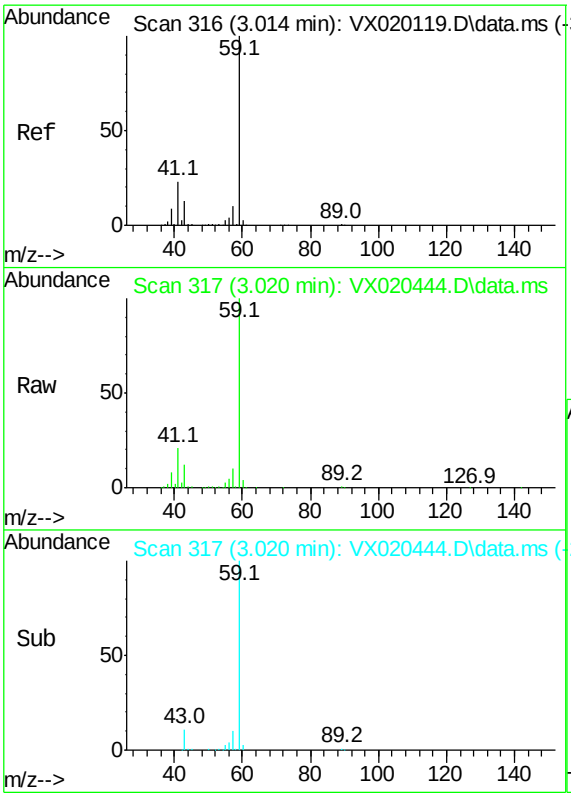
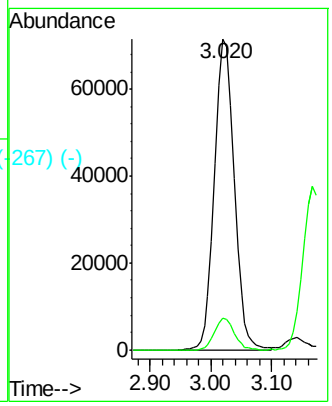
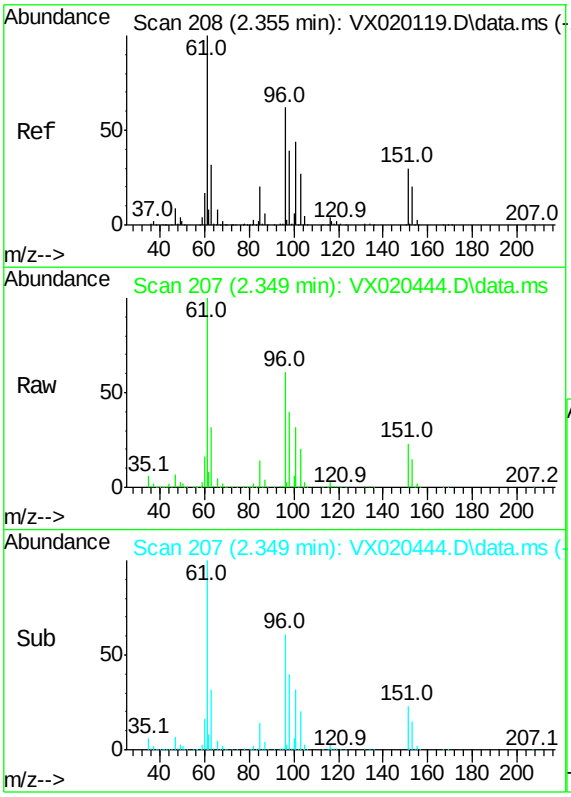


#11
Tert butyl alcohol
Concen: 244.59 ug/l
RT: 3.020 min Scan# 317
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 59 Resp: 160158

Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.8	11.8

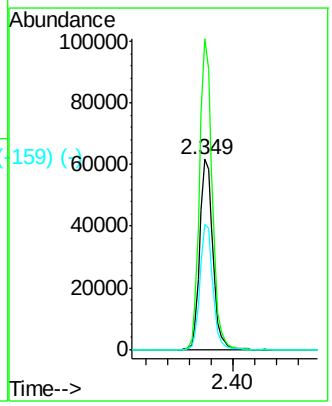




#12
1,1-Dichloroethene
Concen: 45.41 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 96 Resp: 101192

Ion	Ratio	Lower	Upper
96	100		
61	163.3	124.6	187.0
98	66.0	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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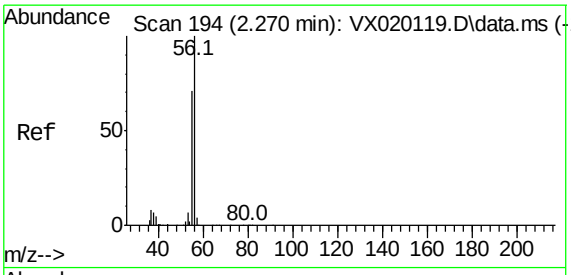
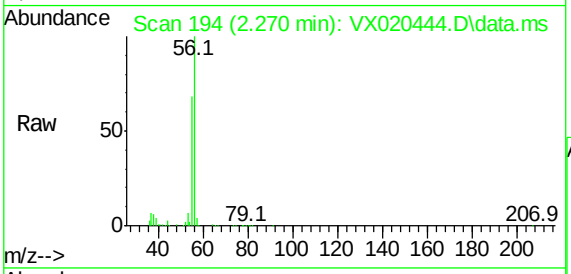
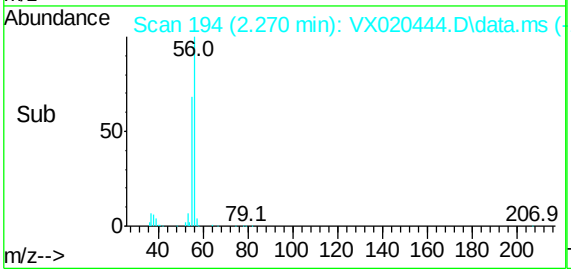


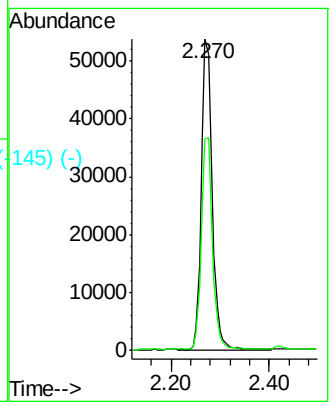
#13
Acrolein
Concen: 204.12 ug/l
RT: 2.270 min Scan# 194
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

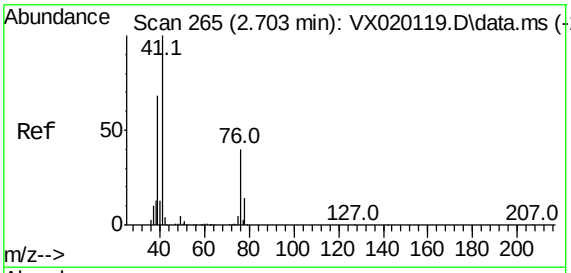
Tgt Ion: 56 Resp: 83520

Ion	Ratio	Lower	Upper
56	100		
55	69.9	56.4	84.6





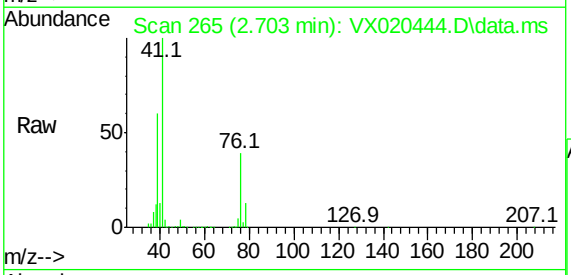


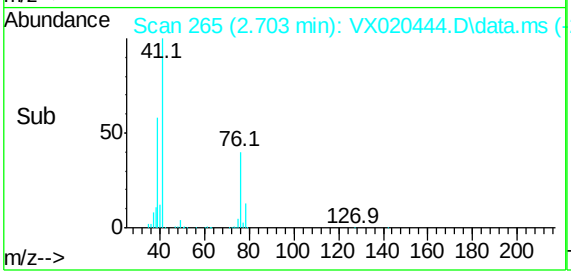


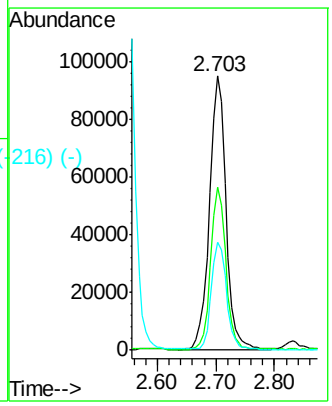
#14
Allyl chloride
Concen: 46.23 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 41 Resp: 182859

Ion	Ratio	Lower	Upper
41	100		
39	55.0	51.6	77.4
76	36.3	30.5	45.7







Instrument :
MSVOA_X
ClientSampleId :
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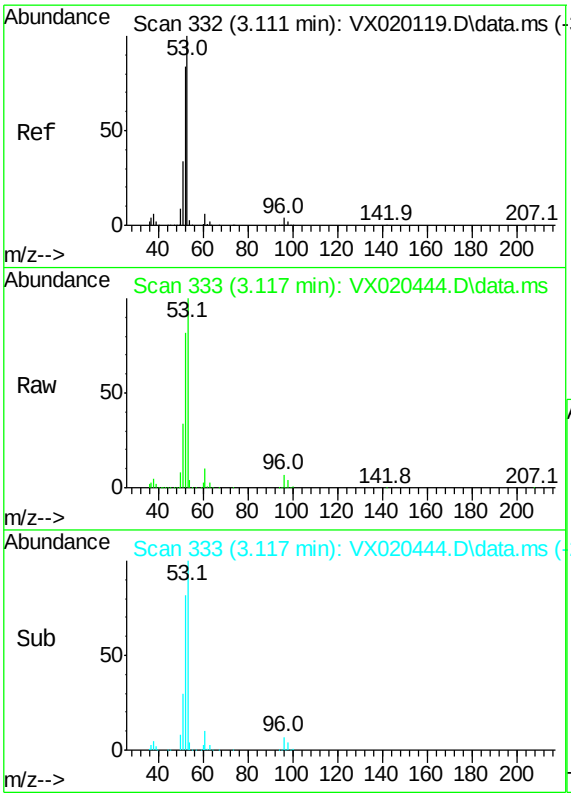
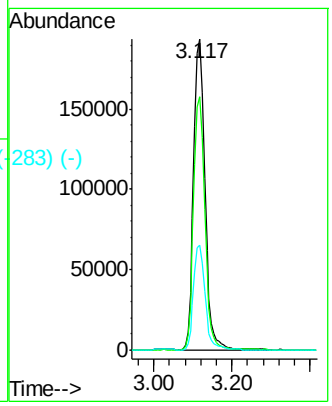
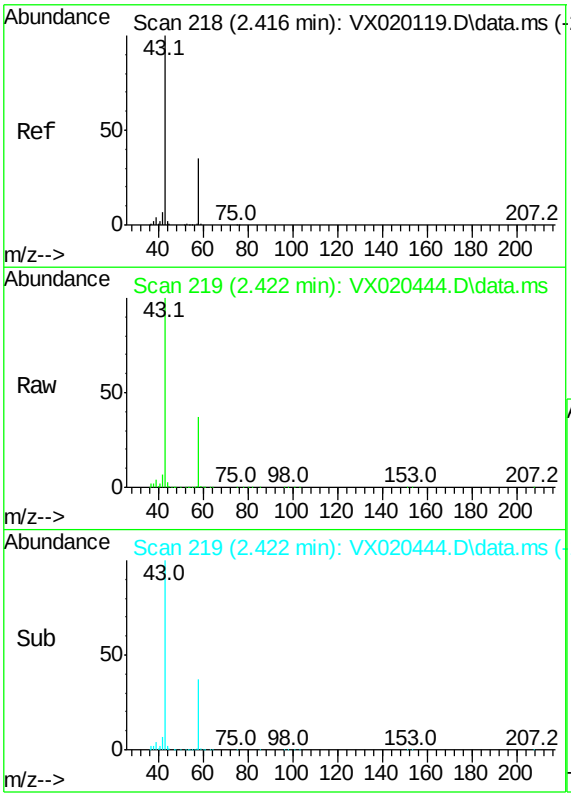


#15
Acrylonitrile
Concen: 258.36 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 53 Resp: 389224

Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.3	97.9
51	34.4	28.2	42.2

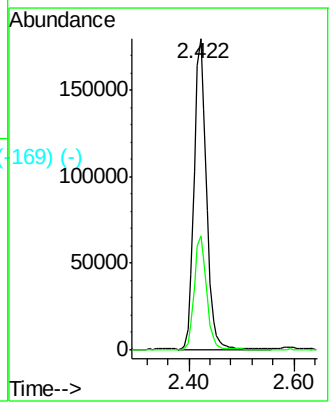




#16
Acetone
Concen: 218.91 ug/l
RT: 2.422 min Scan# 219
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 291907

Ion	Ratio	Lower	Upper
43	100		
58	36.7	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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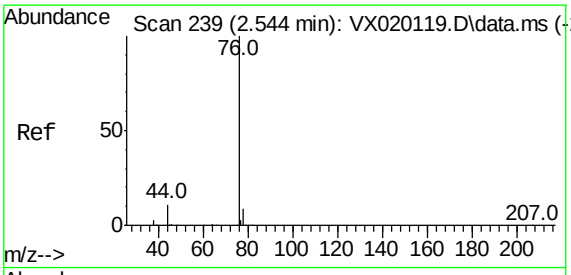
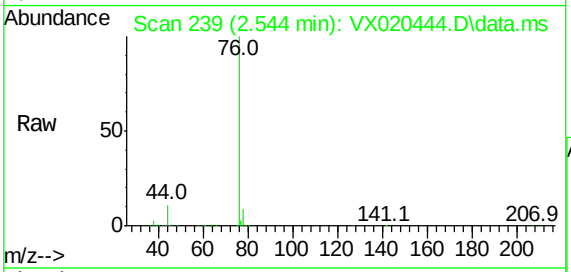
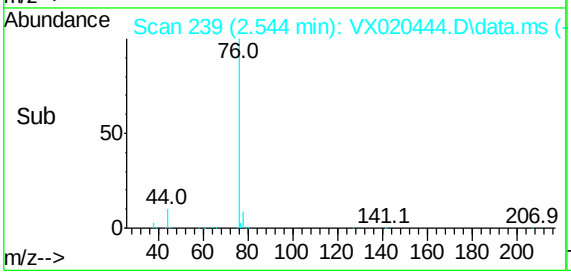


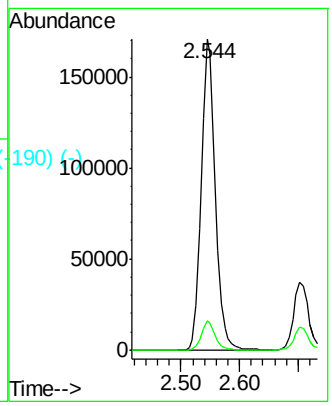
#17 (-)
Carbon Disulfide
Concen: 42.89 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

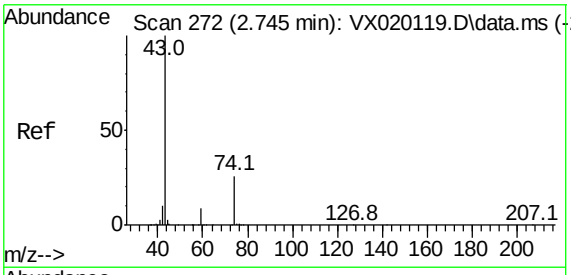
Tgt Ion: 76 Resp: 282359

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8





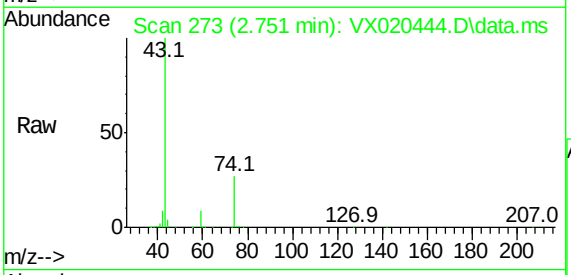


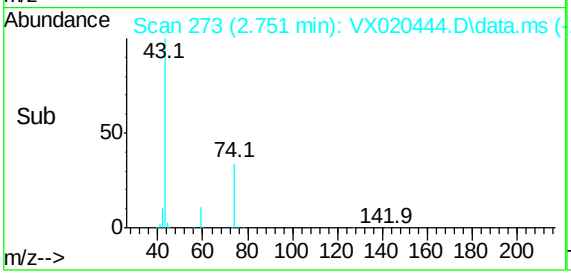


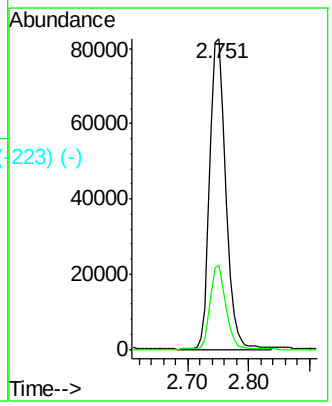
#18 (-)
Methyl Acetate
Concen: 50.28 ug/l
RT: 2.751 min Scan# 273
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 149537

Ion	Ratio	Lower	Upper
43	100		
74	26.8	21.9	32.9







Instrument :
MSVOA_X
ClientSampleId :
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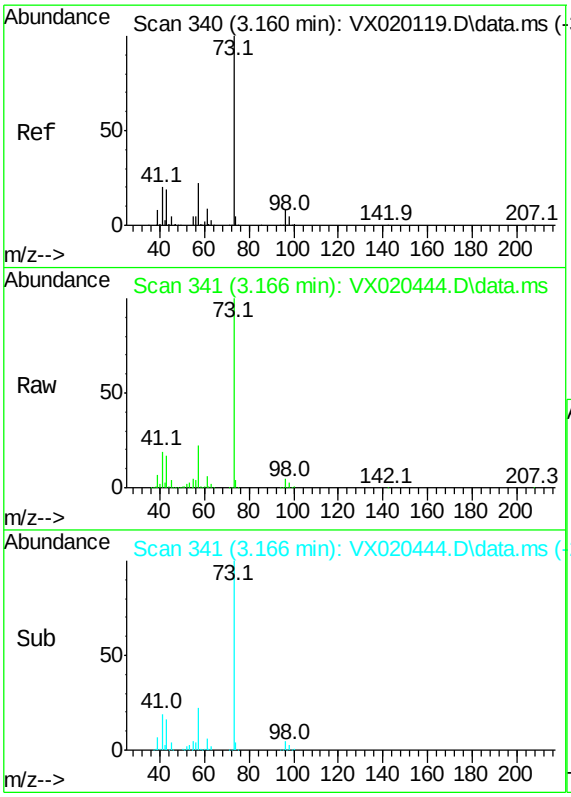
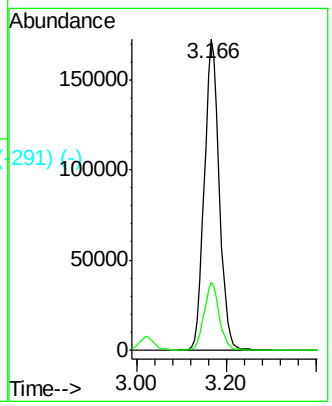
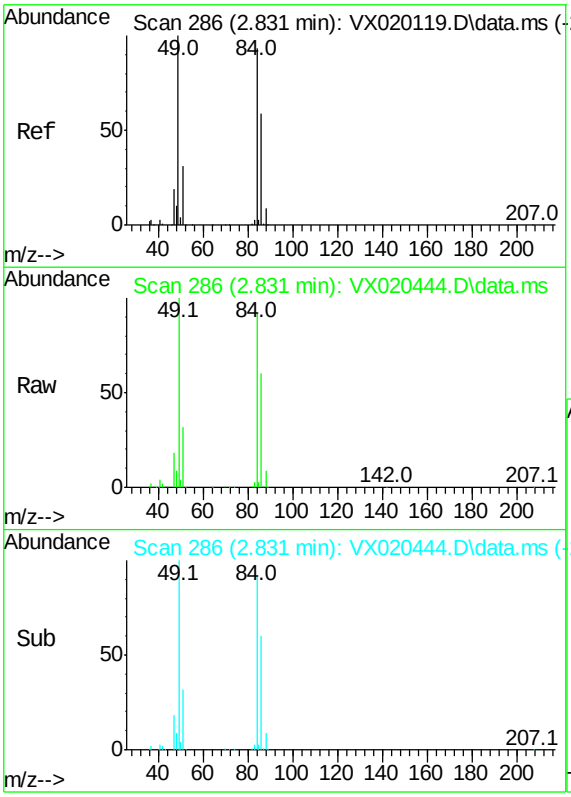


#19
Methyl tert-butyl Ether
Concen: 47.75 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 73 Resp: 398277

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7

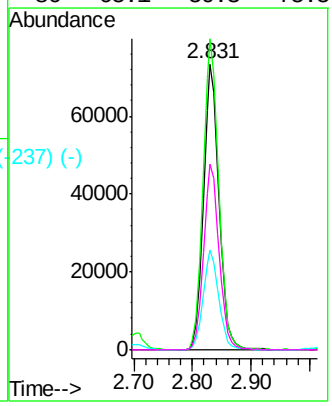




#20
Methylene Chloride
Concen: 44.32 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 84 Resp: 133241

Ion	Ratio	Lower	Upper
84	100		
49	108.9	88.6	132.8
51	34.7	27.0	40.6
86	65.1	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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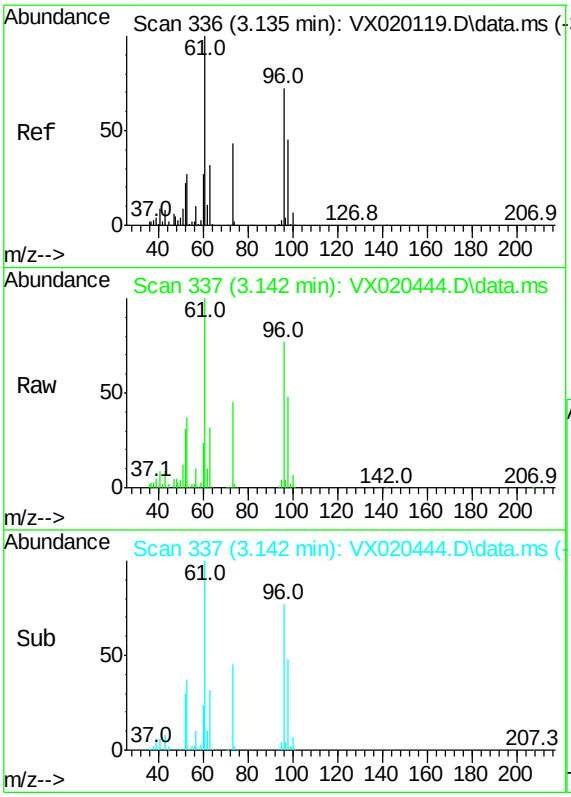
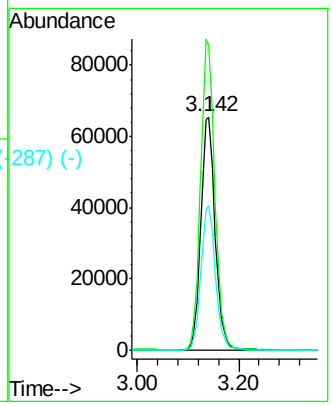
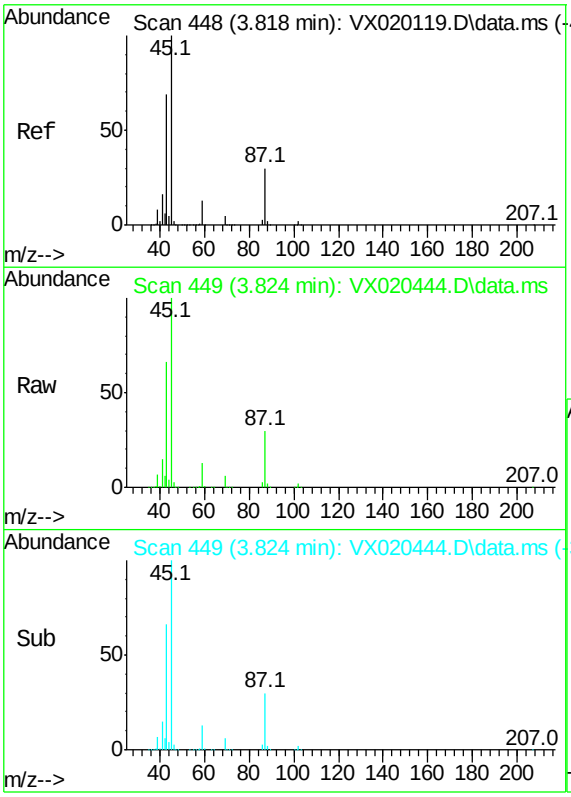


#21
trans-1,2-Dichloroethene
Concen: 46.97 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 96 Resp: 126993

Ion	Ratio	Lower	Upper
96	100		
61	130.3	107.7	161.5
98	61.9	50.4	75.6

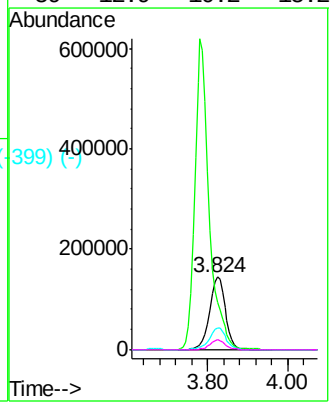




#22
Diisopropyl ether
Concen: 48.12 ug/l
RT: 3.824 min Scan# 449
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 45 Resp: 388466

Ion	Ratio	Lower	Upper
45	100		
43	65.5	58.0	87.0
87	29.6	25.4	38.0
59	12.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
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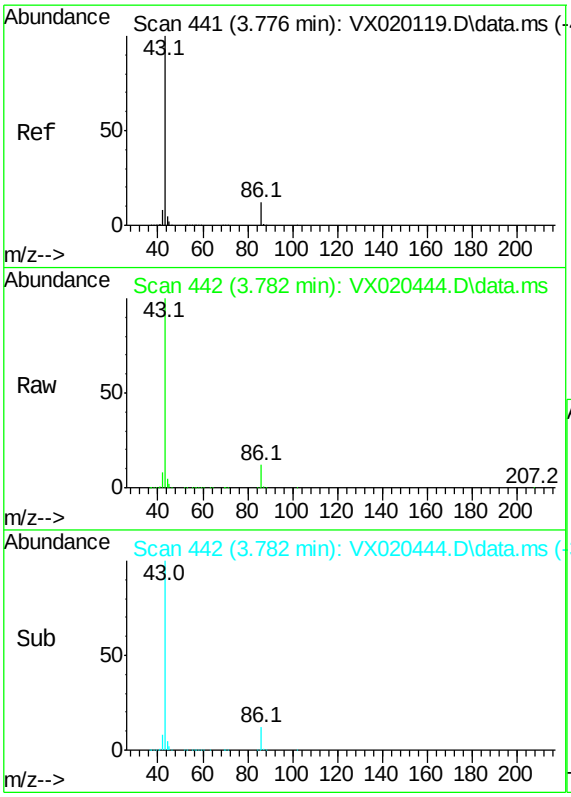
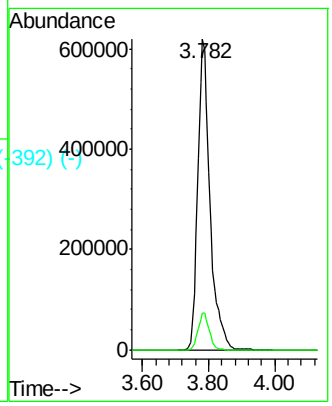
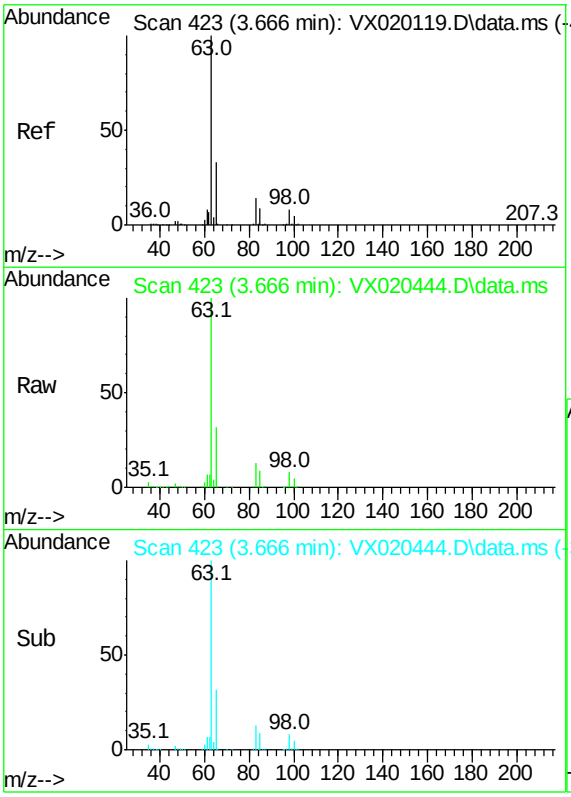


#23
Vinyl Acetate
Concen: 226.64 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 1559323

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.9	14.9

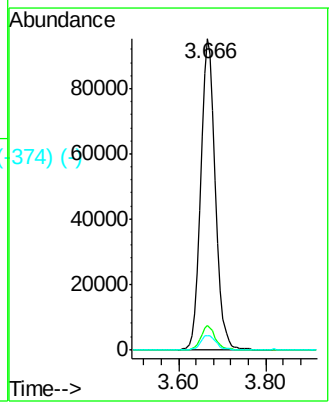




#24
1,1-Dichloroethane
Concen: 47.40 ug/l
RT: 3.666 min Scan# 423
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 63 Resp: 225350

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.8	11.2
100	4.5	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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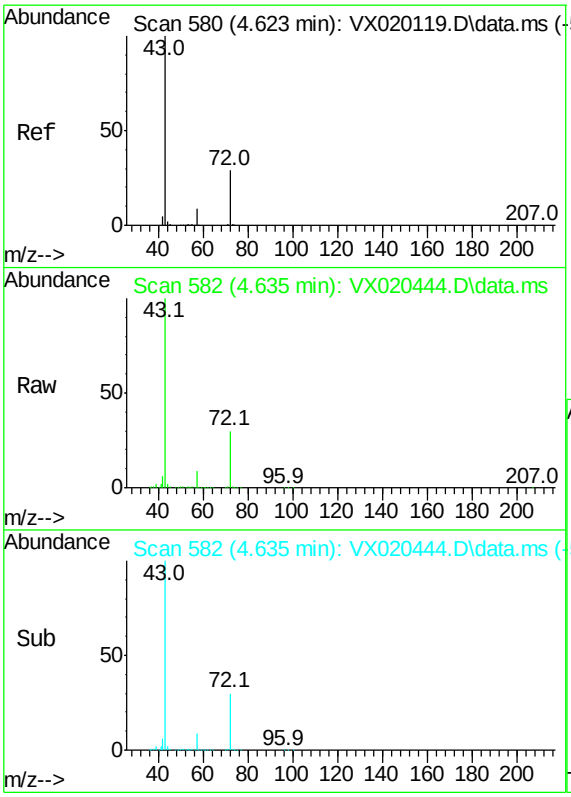
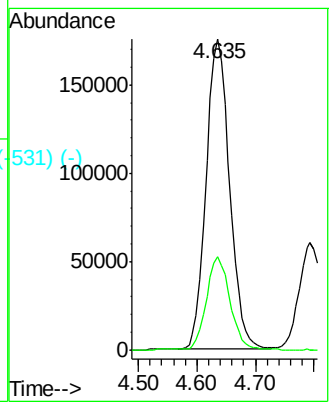
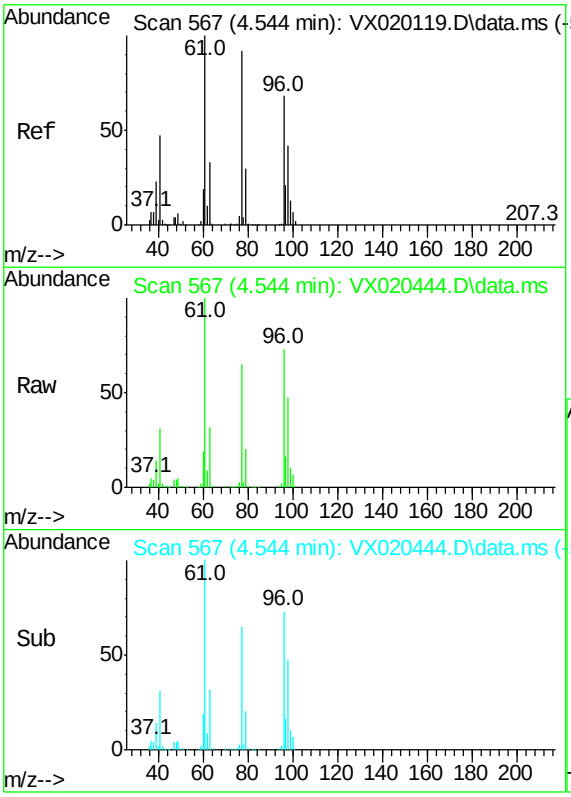


#25
2-Butanone
Concen: 252.12 ug/l
RT: 4.635 min Scan# 582
Delta R.T. 0.012 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 489295

Ion	Ratio	Lower	Upper
43	100		
72	29.8	23.7	35.5

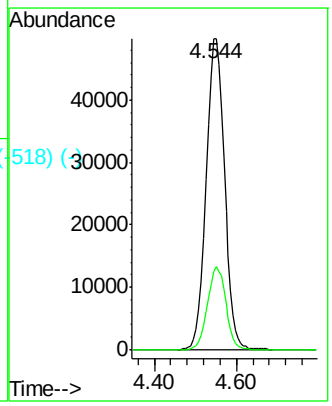




#26
2,2-Dichloropropane
Concen: 39.41 ug/l
RT: 4.544 min Scan# 567
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 77 Resp: 154597

Ion	Ratio	Lower	Upper
77	100		
97	26.6	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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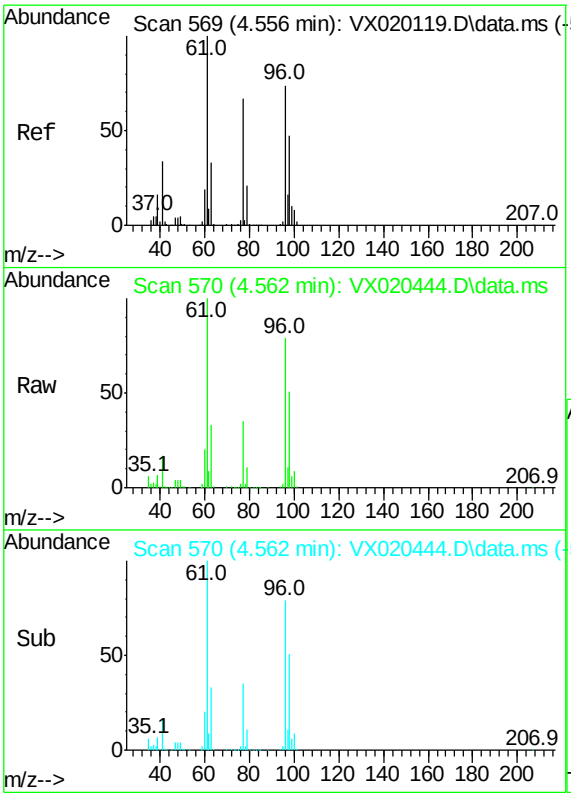
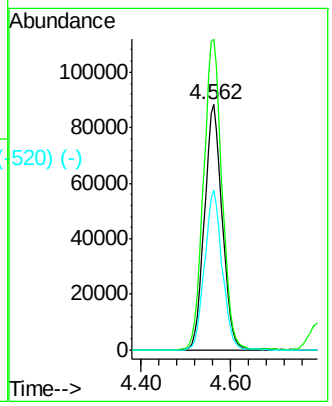
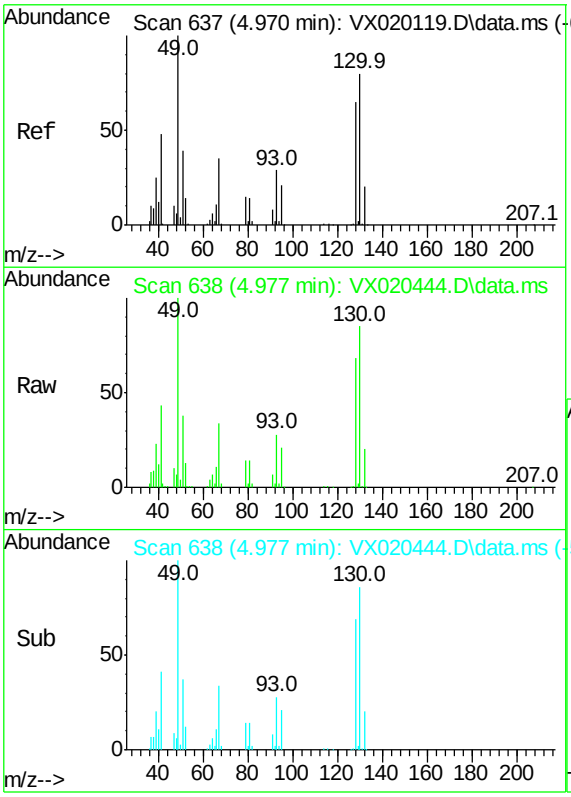


#27
cis-1,2-Dichloroethene
Concen: 79.20 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 96 Resp: 241705

Ion	Ratio	Lower	Upper
96	100		
61	131.7	0.0	285.6
98	64.5	0.0	129.6

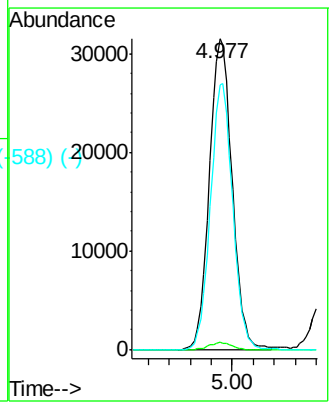




#28
Bromochloromethane
Concen: 44.64 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.007 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 49 Resp: 94508

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	83.7	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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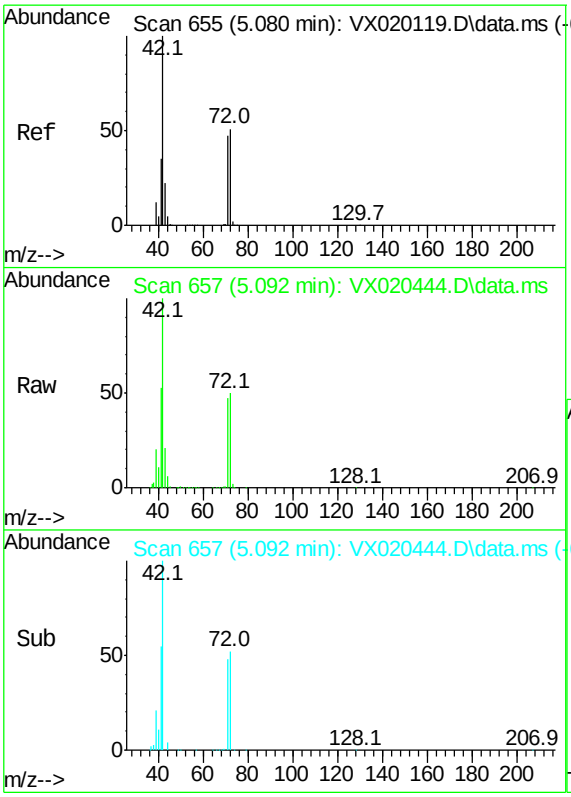
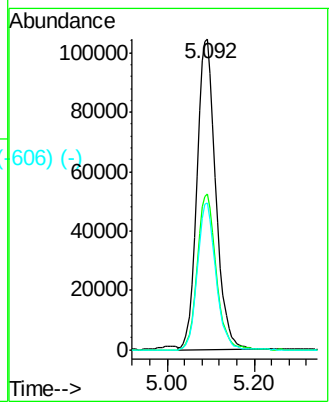
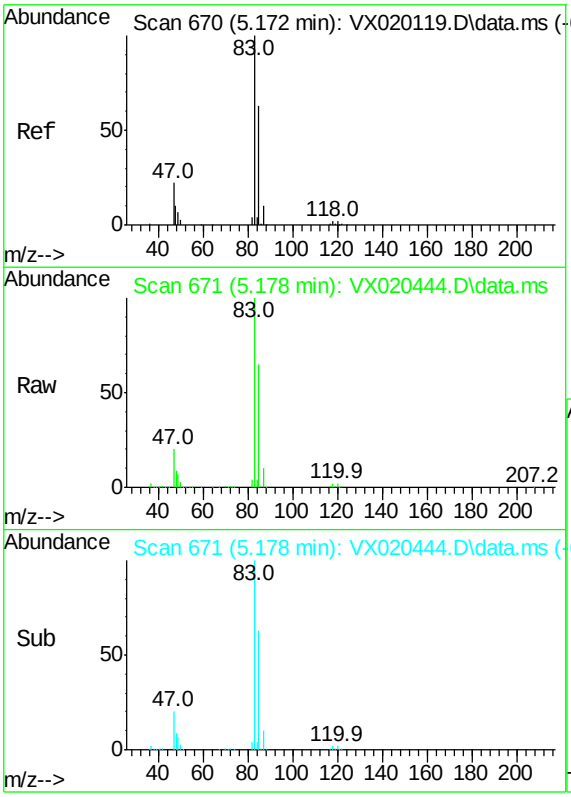


#29
Tetrahydrofuran
Concen: 260.60 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.012 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 42 Resp: 318183

Ion	Ratio	Lower	Upper
42	100		
72	50.5	41.7	62.5
71	46.6	38.4	57.6

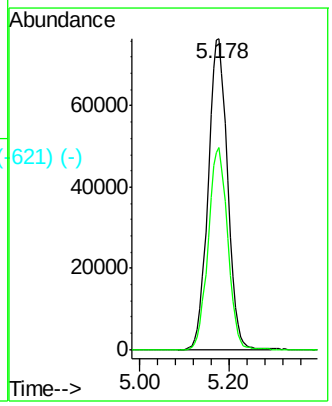




#30
Chloroform
Concen: 47.16 ug/l
RT: 5.178 min Scan# 671
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 83 Resp: 228279

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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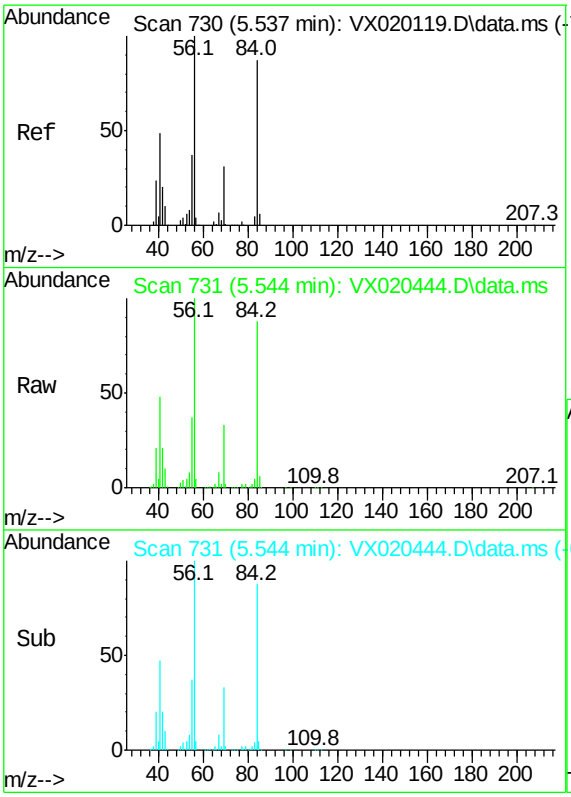
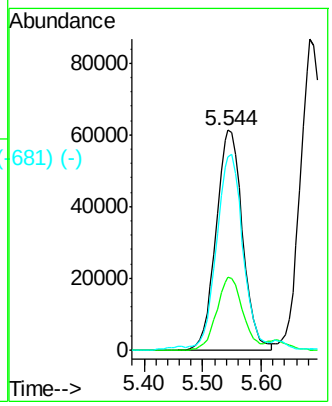
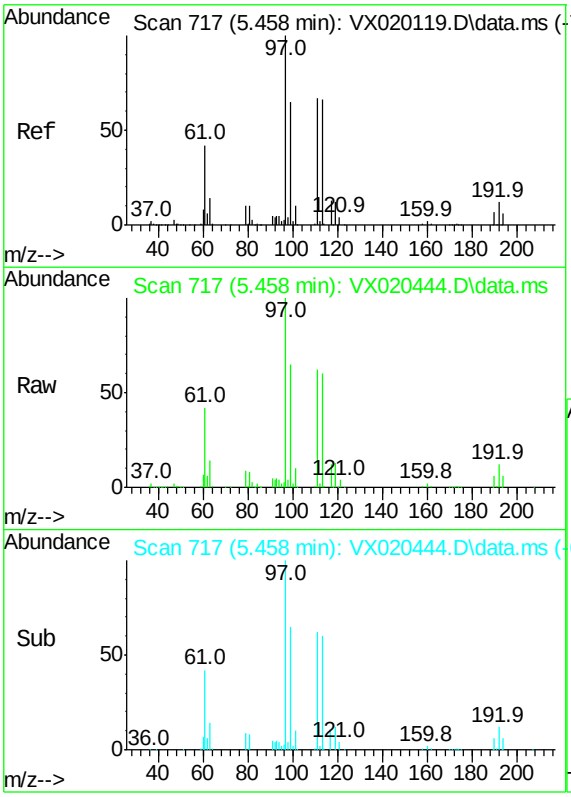


#31
Cyclohexane
Concen: 47.66 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.007 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 56 Resp: 192161

Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.3	37.9
84	86.2	71.4	107.0

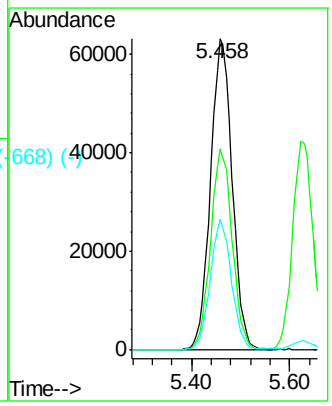




#32
1,1,1-Trichloroethane
Concen: 47.81 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 97 Resp: 193003

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	41.2	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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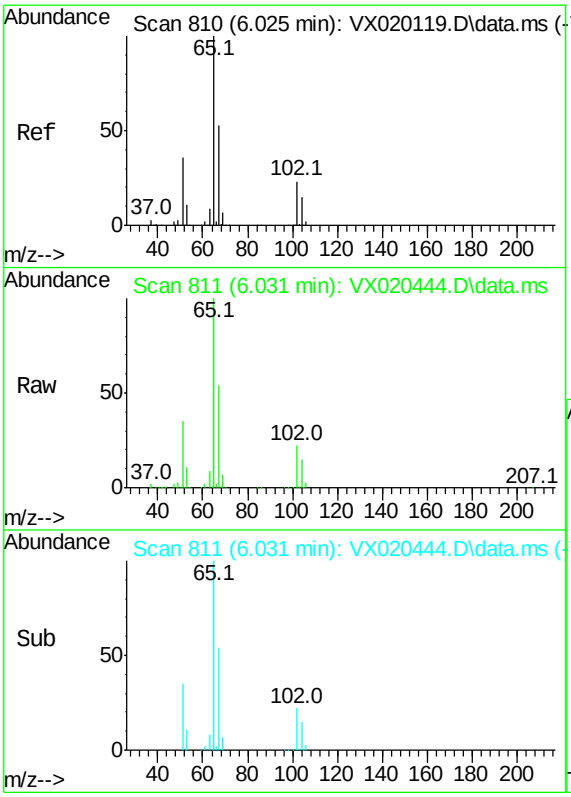
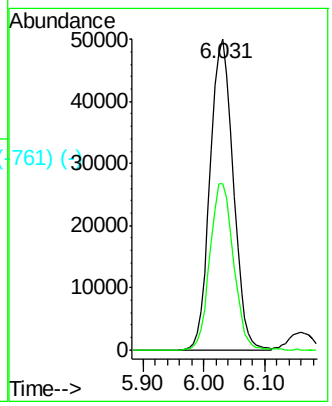
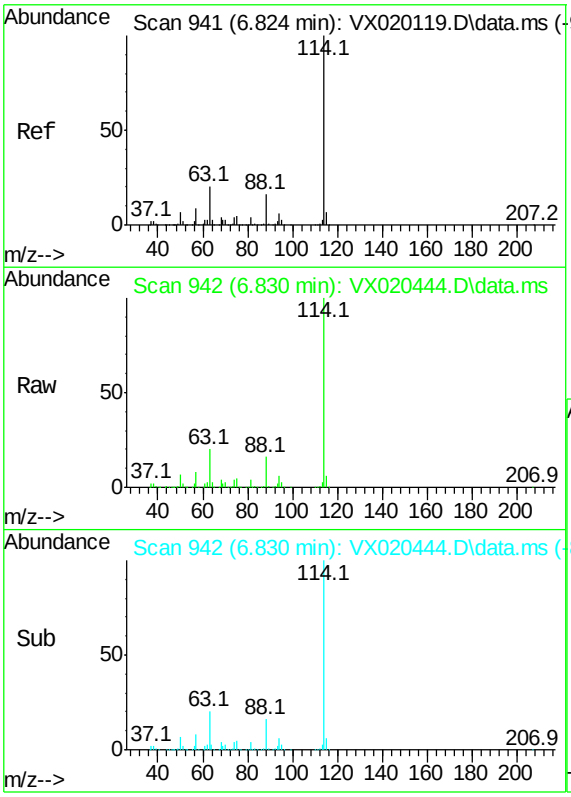


#33
1,2-Dichloroethane-d4
Concen: 44.76 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 65 Resp: 130892

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.4

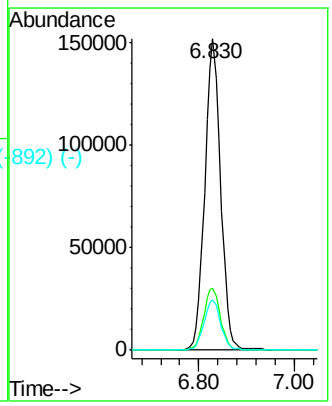




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:114 Resp: 346095

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.8
88	16.0	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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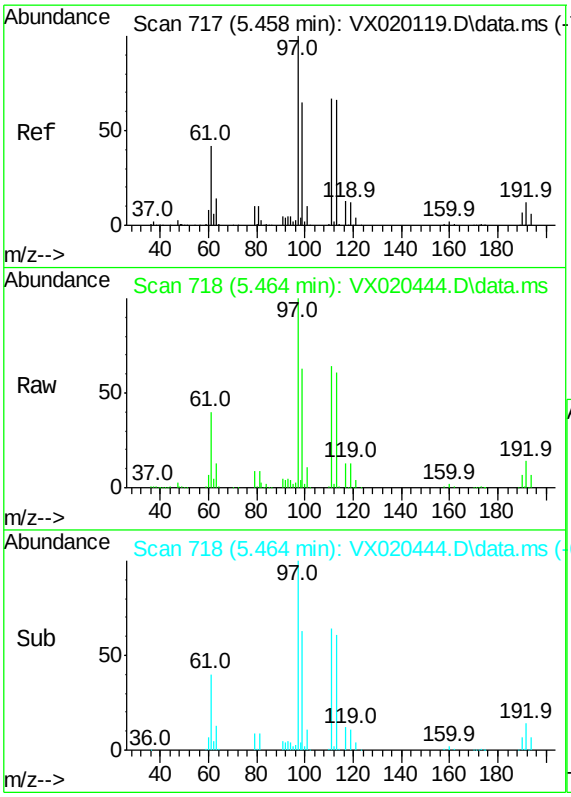
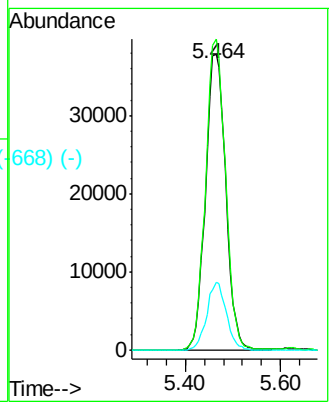
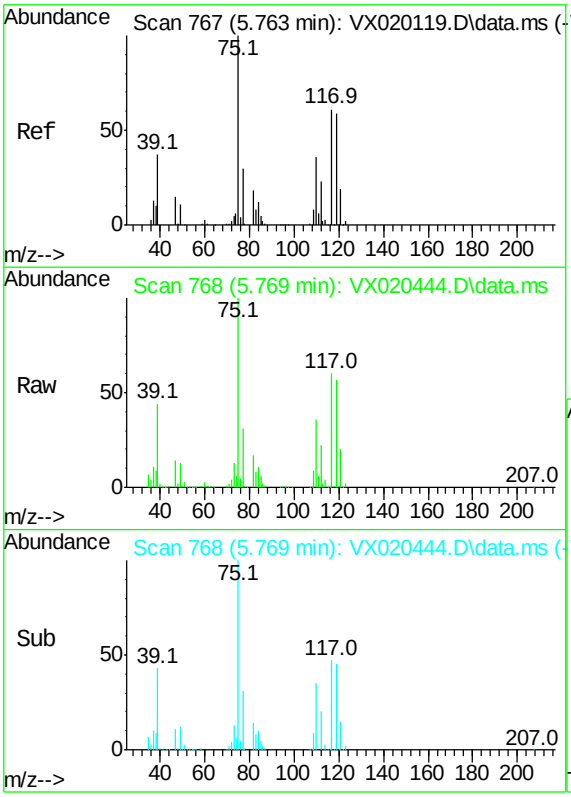


#35
Dibromofluoromethane
Concen: 50.10 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:113 Resp: 110920

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.9	122.9
192	21.8	16.7	25.1

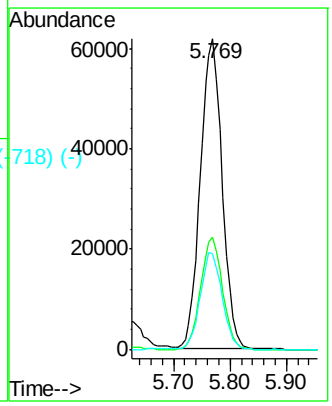




#36
1,1-Dichloropropene
Concen: 48.10 ug/l
RT: 5.769 min Scan# 768
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 75 Resp: 164508

Ion	Ratio	Lower	Upper
75	100		
110	36.2	18.1	54.4
77	31.4	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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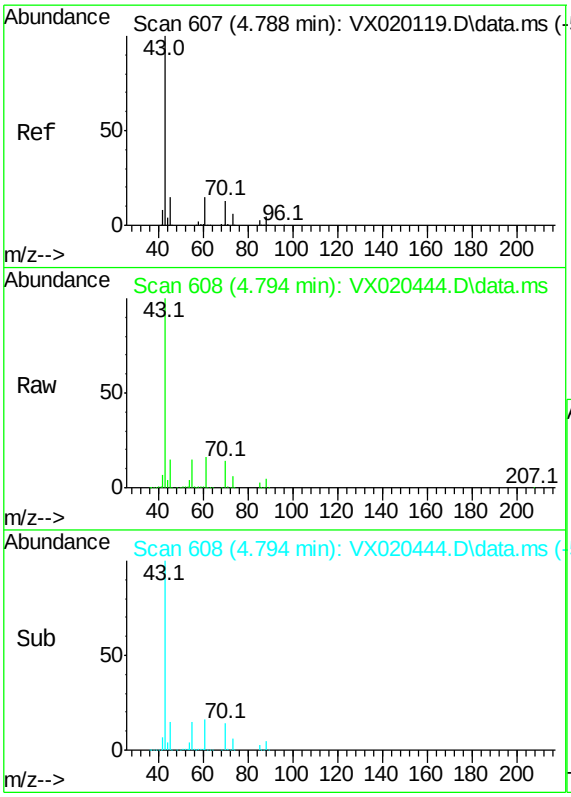
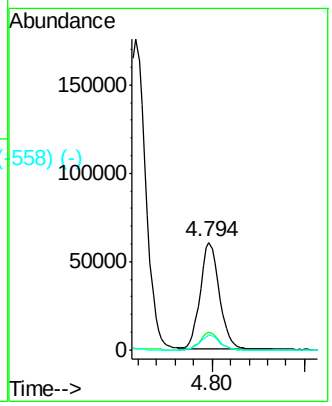
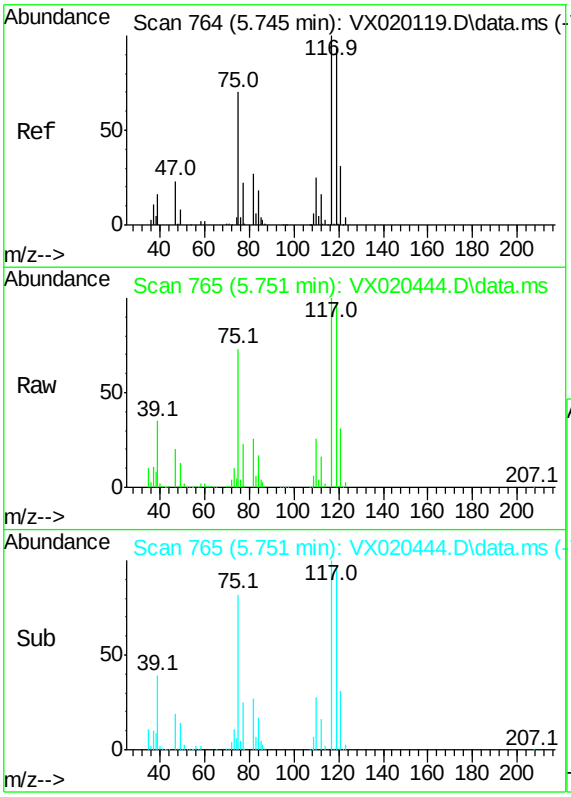


#37 (-)
Ethyl Acetate
Concen: 49.39 ug/l
RT: 4.794 min Scan# 608
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 175564

Ion	Ratio	Lower	Upper
43	100		
61	16.0	12.8	19.2
70	13.3	10.5	15.7

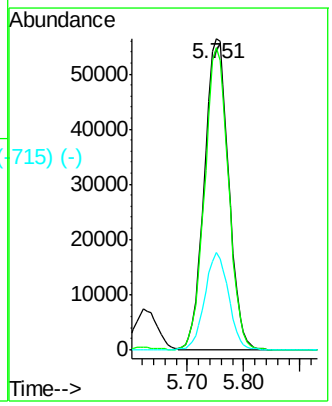




#38 (-)
Carbon Tetrachloride
Concen: 51.31 ug/l
RT: 5.751 min Scan# 765
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:117 Resp: 166919

Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.2	114.2
121	31.2	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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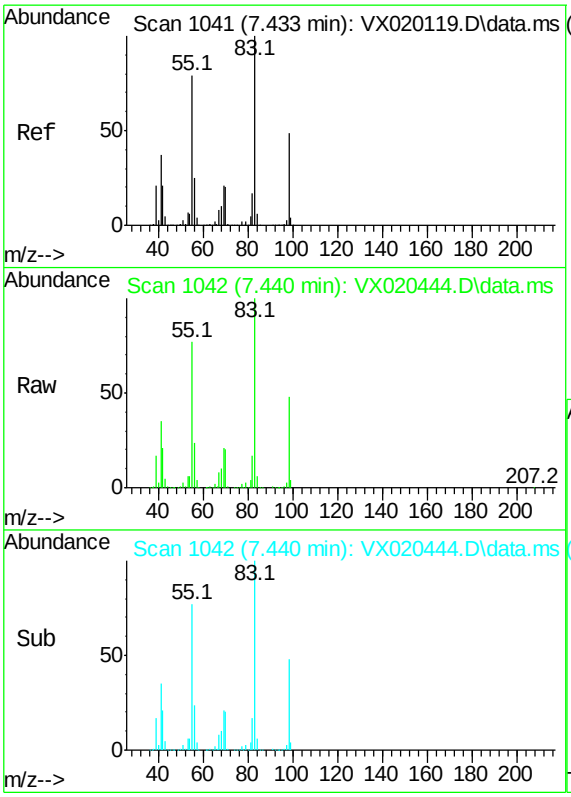
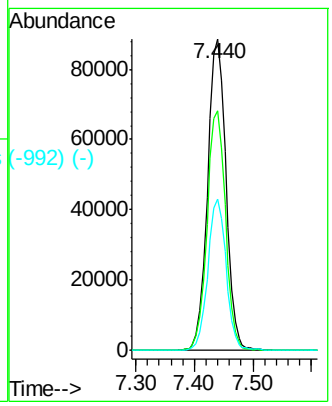
12/30/2020 2:24:07 PM

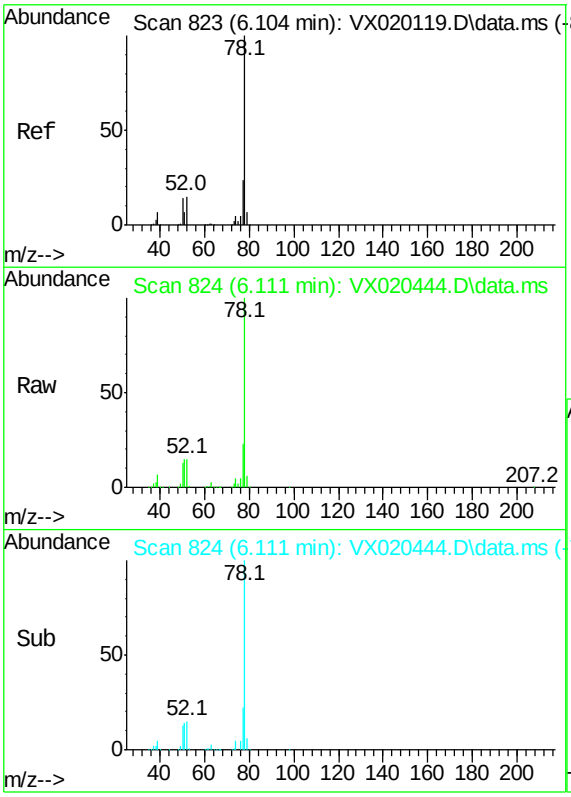


#39
Methylcyclohexane
Concen: 48.48 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.007 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 83 Resp: 191395

Ion	Ratio	Lower	Upper
83	100		
55	76.8	58.9	88.3
98	48.4	38.1	57.1

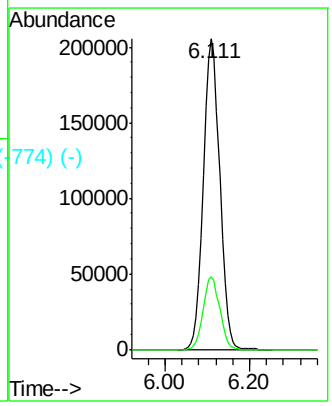




#40
Benzene
Concen: 50.05 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.007 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 78 Resp: 532886

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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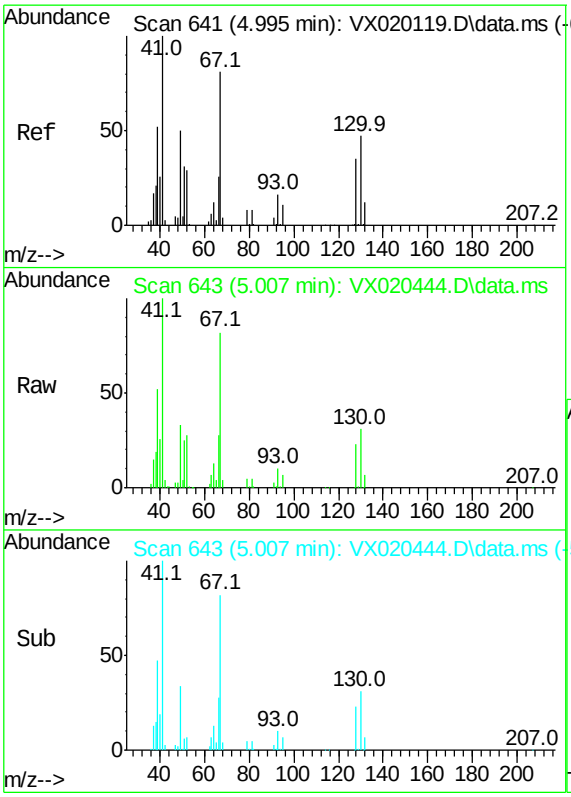
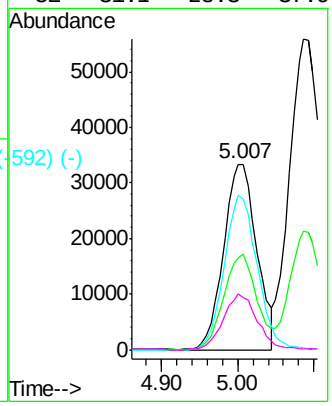
12/30/2020 2:24:07 PM

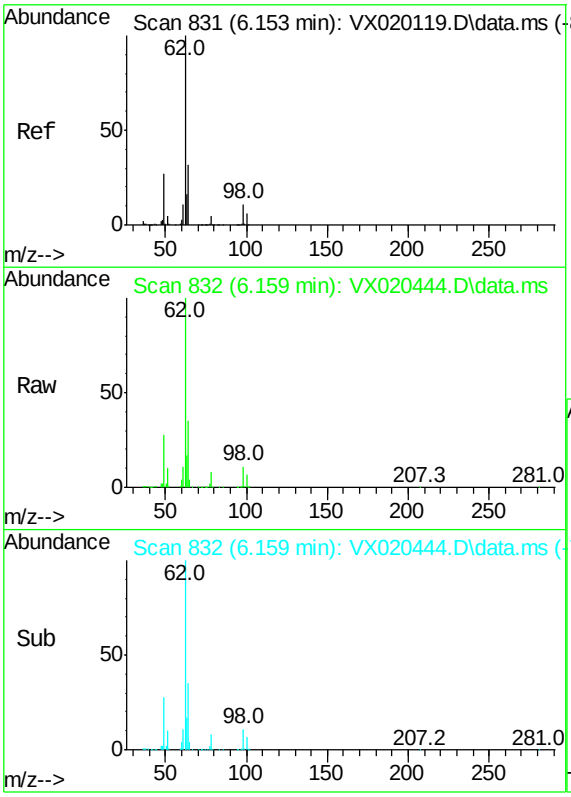


#41
Methacrylonitrile
Concen: 53.18 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.012 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 41 Resp: 100719

Ion	Ratio	Lower	Upper
41	100		
39	51.1	42.5	63.7
67	83.4	65.0	97.6
52	31.1	25.3	37.9

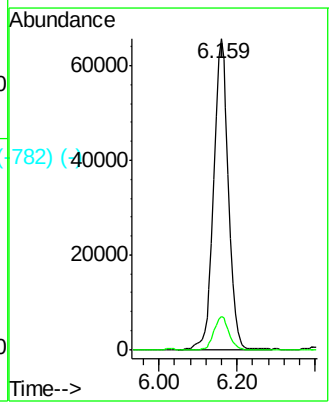




#42
1,2-Dichloroethane
Concen: 46.89 ug/l
RT: 6.159 min Scan# 832
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 62 Resp: 171276

Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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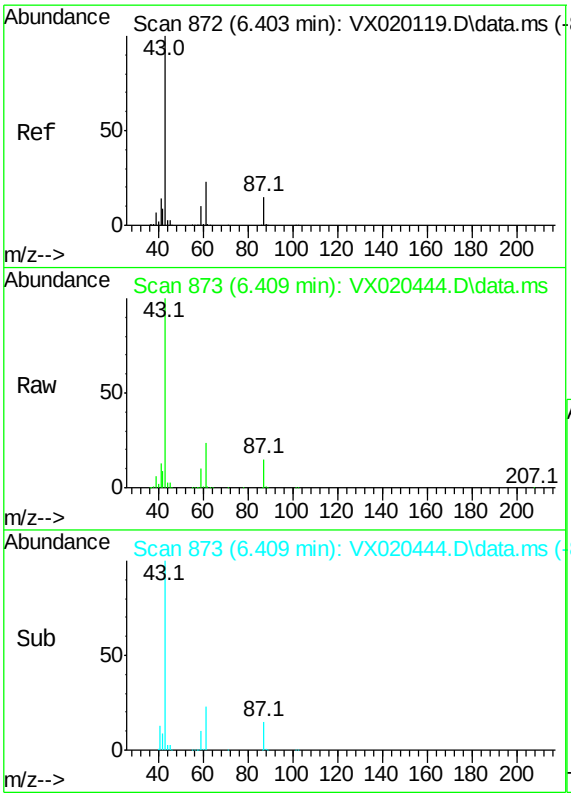
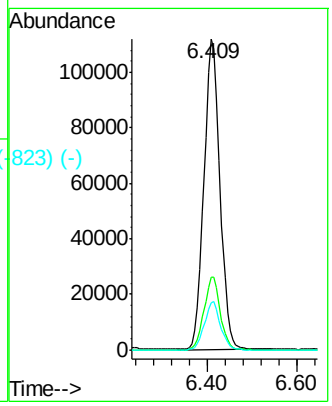
12/30/2020 2:24:07 PM

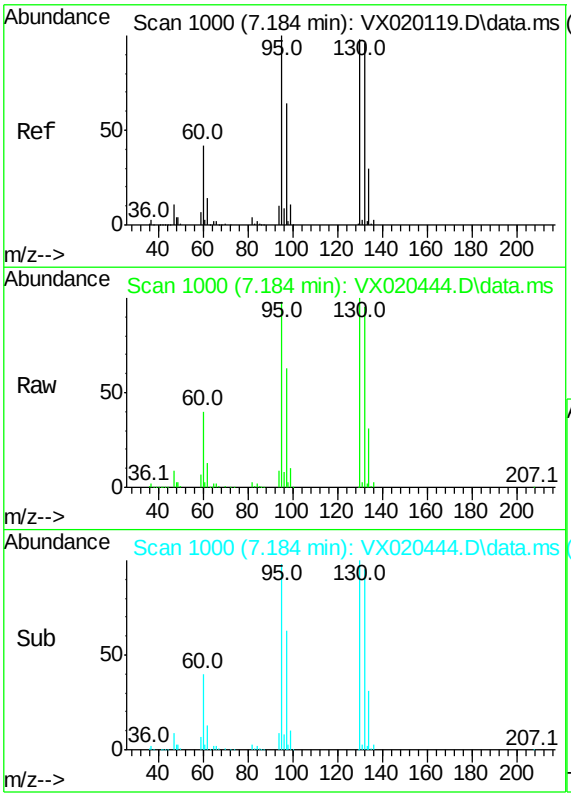


#43
Isopropyl Acetate
Concen: 49.47 ug/l
RT: 6.409 min Scan# 873
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 277620

Ion	Ratio	Lower	Upper
43	100		
61	23.7	18.2	27.4
87	15.4	12.5	18.7

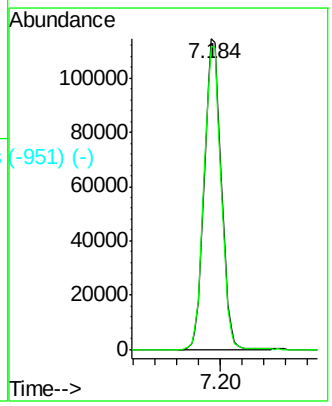




#44
Trichloroethene
Concen: 89.88 ug/l
RT: 7.184 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:130 Resp: 247389

Ion	Ratio	Lower	Upper
130	100		
95	97.7	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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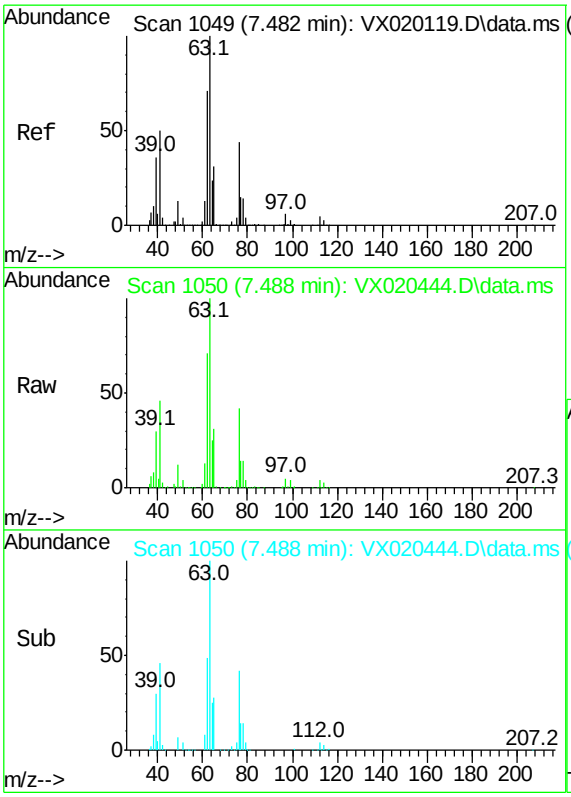
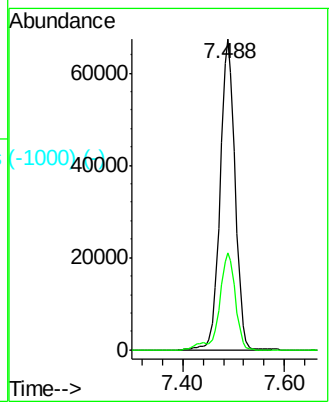
12/30/2020 2:24:07 PM

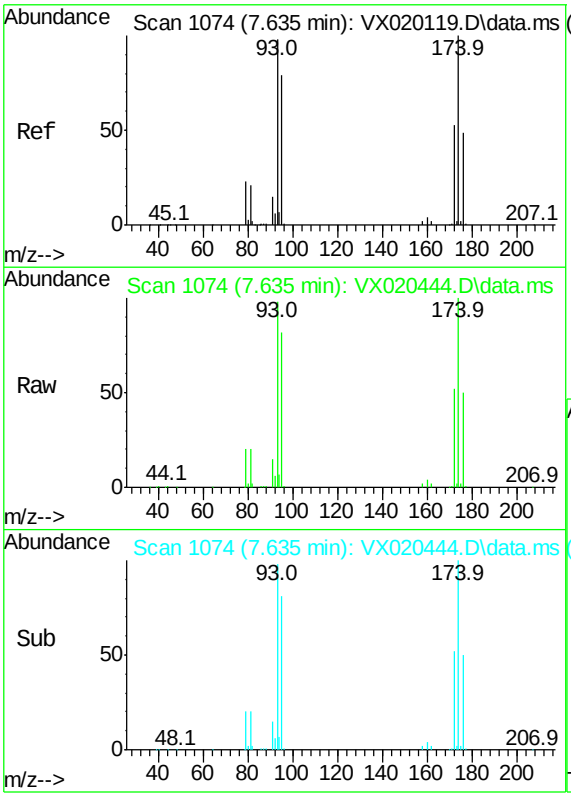


#45
1,2-Dichloropropane
Concen: 51.07 ug/l
RT: 7.488 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 63 Resp: 137423

Ion	Ratio	Lower	Upper
63	100		
65	31.2	25.7	38.5

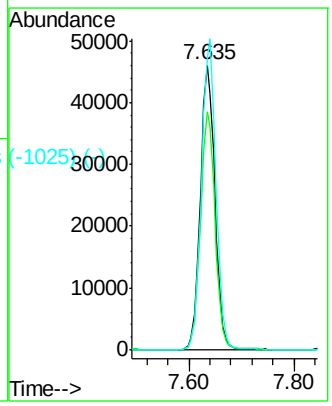




#46
Dibromomethane
Concen: 47.79 ug/l
RT: 7.635 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 93 Resp: 87962

Ion	Ratio	Lower	Upper
93	100		
95	83.9	66.8	100.2
174	108.8	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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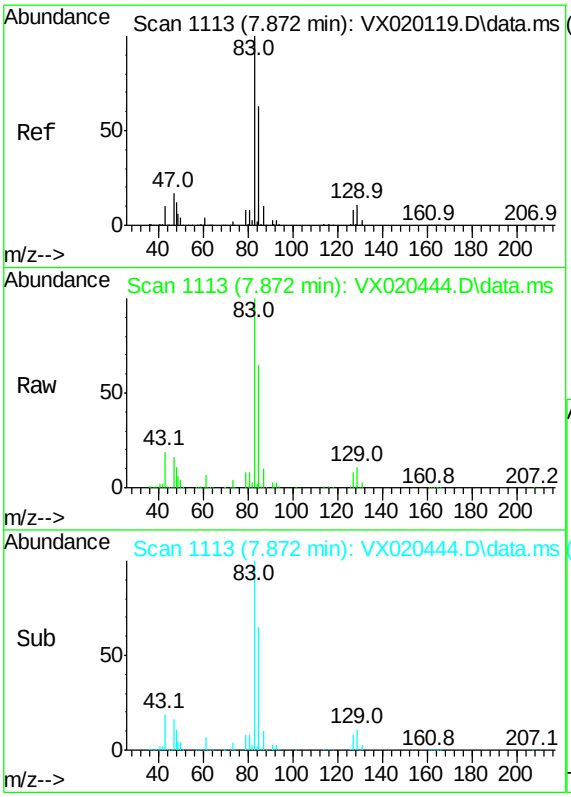
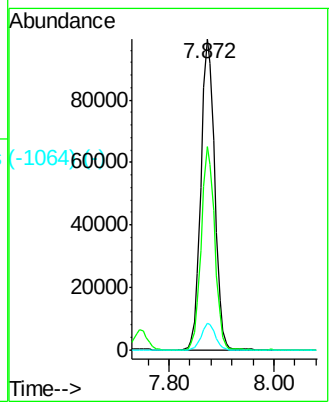
12/30/2020 2:24:07 PM

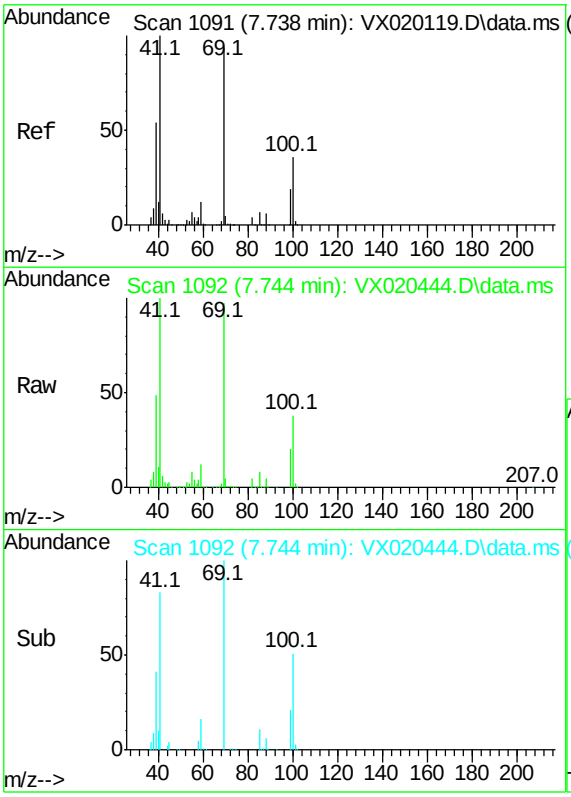


#47
Bromodichloromethane
Concen: 51.53 ug/l
RT: 7.872 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 83 Resp: 180838

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.4	77.0
127	8.4	6.8	10.2

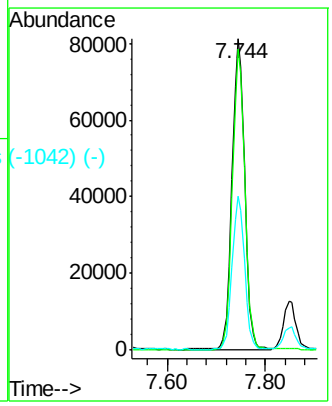




#48
Methyl methacrylate
Concen: 52.70 ug/l
RT: 7.744 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 41 Resp: 144934

Ion	Ratio	Lower	Upper
41	100		
69	95.2	76.0	114.0
39	49.0	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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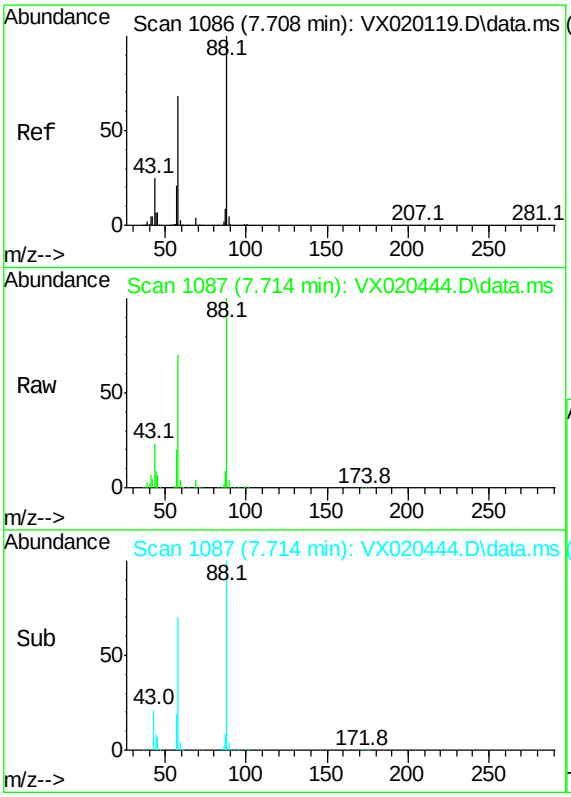
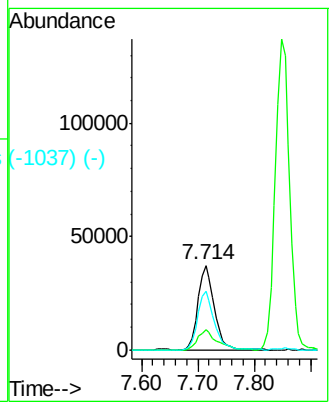
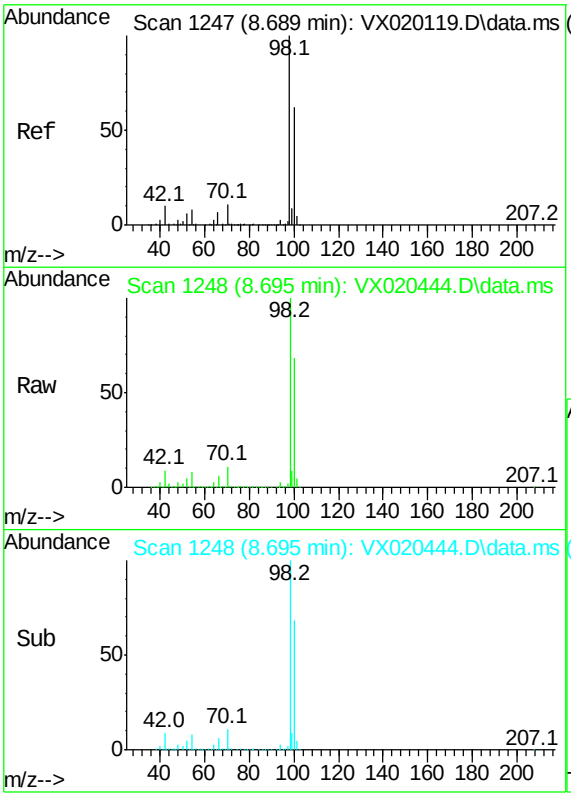


#49
1,4-Dioxane
Concen: 1144.42 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 88 Resp: 73669

Ion	Ratio	Lower	Upper
88	100		
43	27.0	23.2	34.8
58	71.2	55.0	82.4

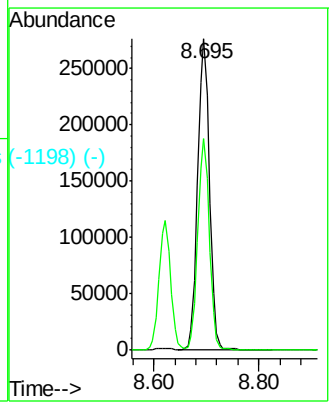




#50
Toluene-d8
Concen: 50.24 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 98 Resp: 428176

Ion	Ratio	Lower	Upper
98	100		
100	67.2	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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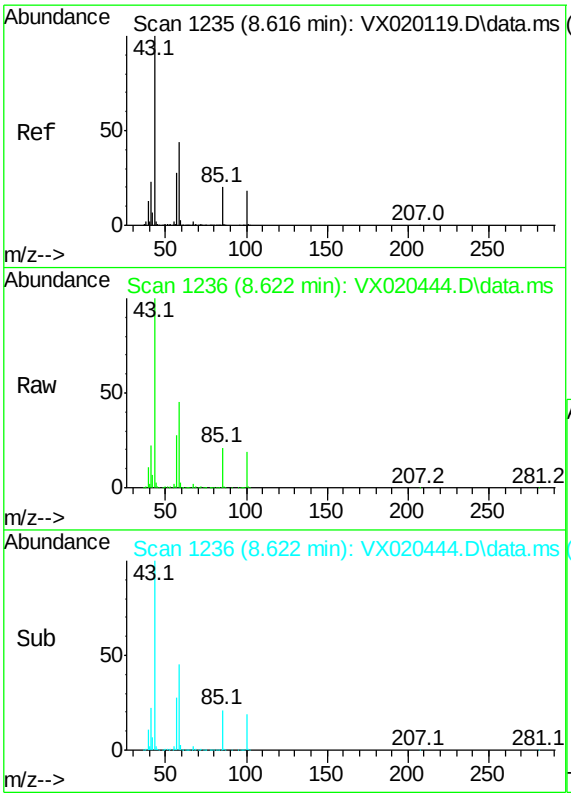
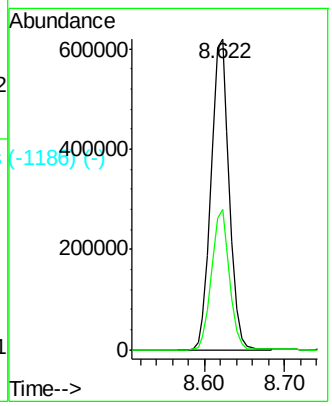
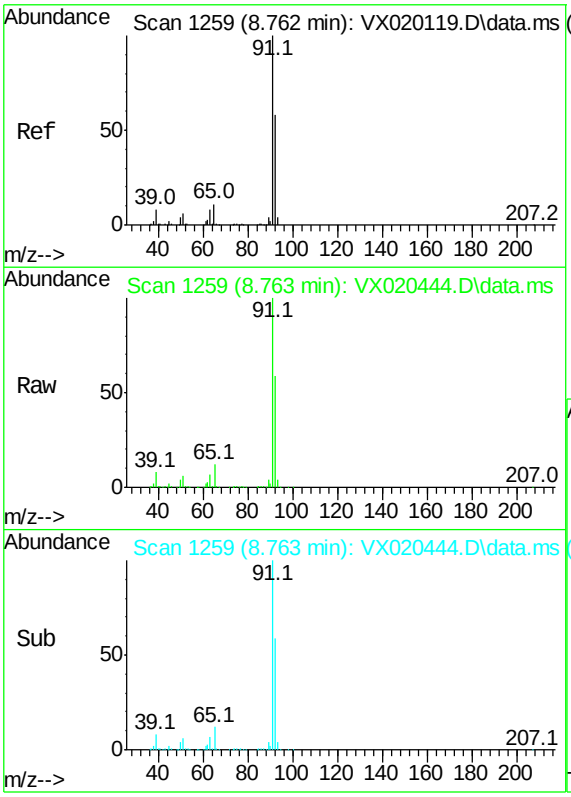


#51
4-Methyl-2-Pentanone
Concen: 280.15 ug/l
RT: 8.622 min Scan# 1236
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 973301

Ion	Ratio	Lower	Upper
43	100		
58	44.6	35.4	53.0

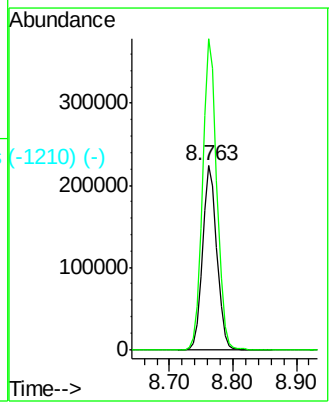




#52
Toluene
Concen: 51.84 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.001 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 92 Resp: 336848

Ion	Ratio	Lower	Upper
92	100		
91	169.0	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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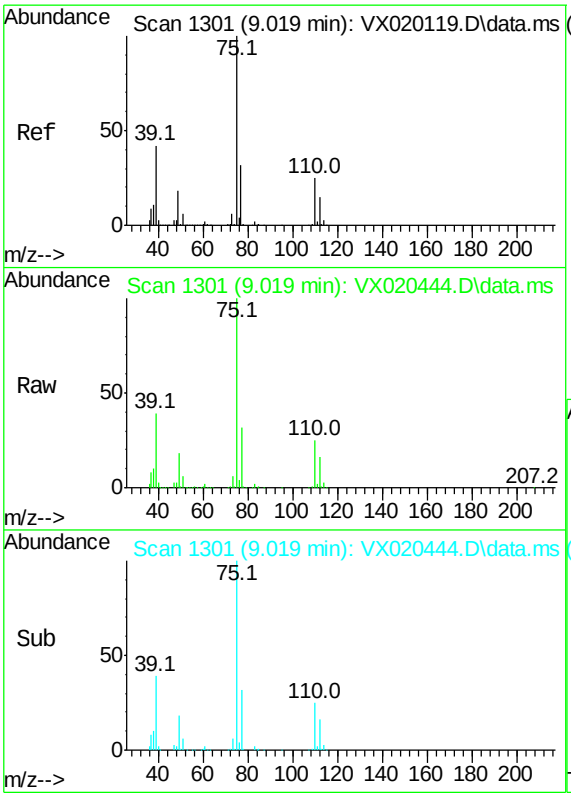
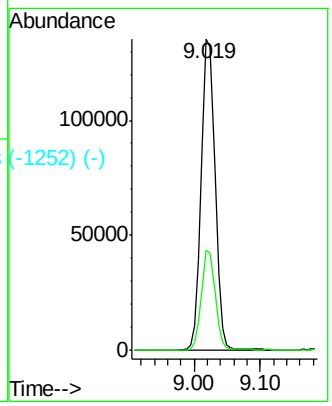
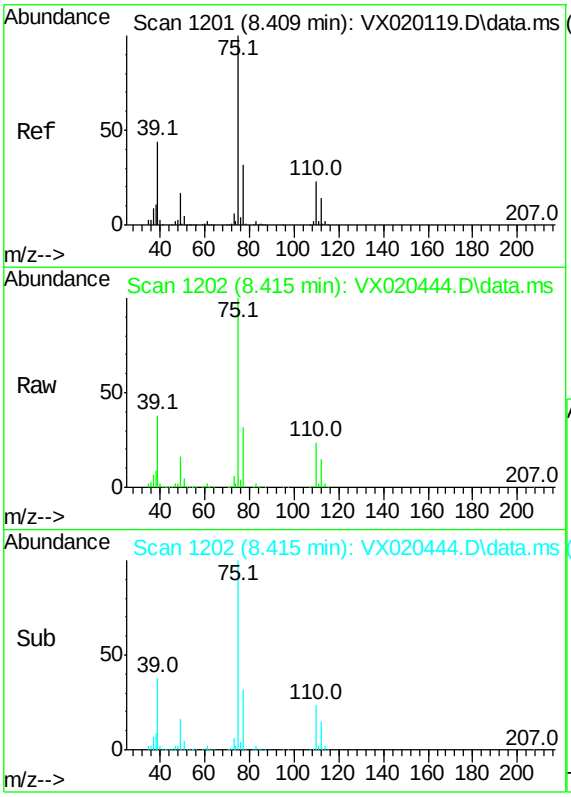


#53
t-1,3-Dichloropropene
Concen: 50.84 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 75 Resp: 196231

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.9	37.3

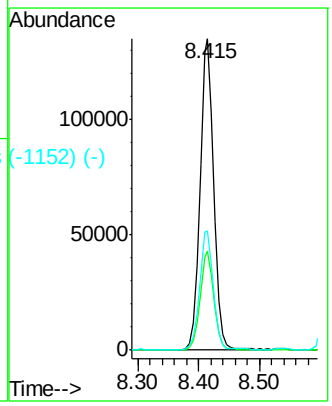




#54
cis-1,3-Dichloropropene
Concen: 50.74 ug/l
RT: 8.415 min Scan# 1202
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 75 Resp: 215027

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5
39	38.3	35.1	52.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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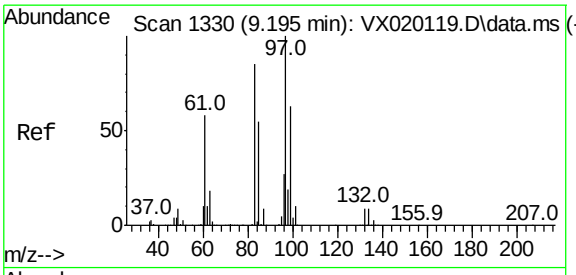
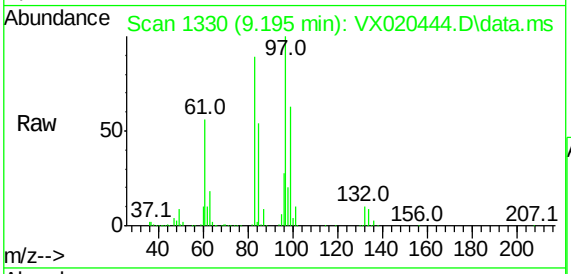
12/30/2020 2:24:07 PM

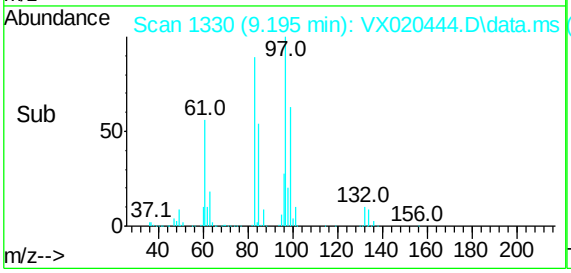


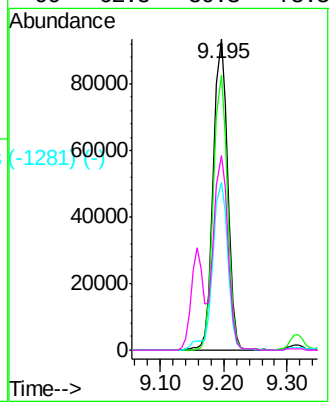
#55
1,1,2-Trichloroethane
Concen: 51.71 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

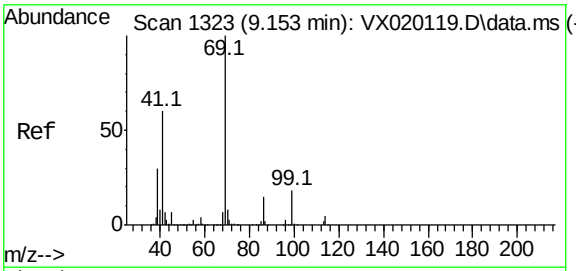
Tgt Ion: 97 Resp: 138571

Ion	Ratio	Lower	Upper
97	100		
83	88.6	69.3	103.9
85	54.0	44.3	66.5
99	62.5	50.3	75.5





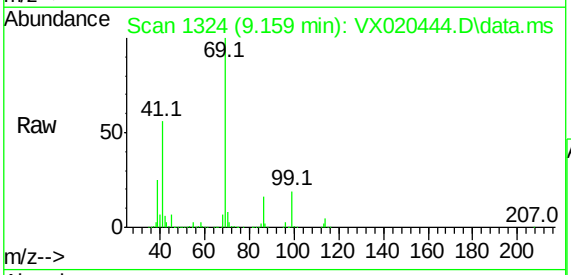


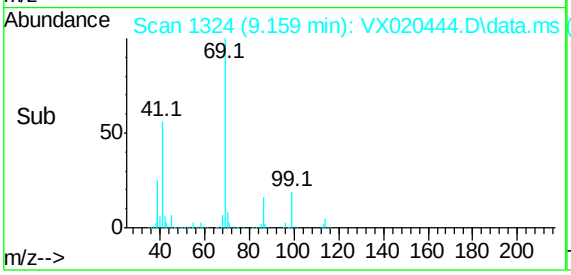


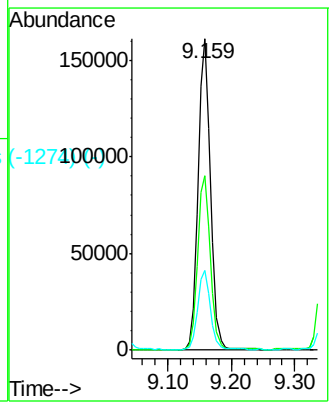
#56
Ethyl methacrylate
Concen: 55.00 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 69 Resp: 215727

Ion	Ratio	Lower	Upper
69	100		
41	57.4	46.8	70.2
39	26.0	24.7	37.1







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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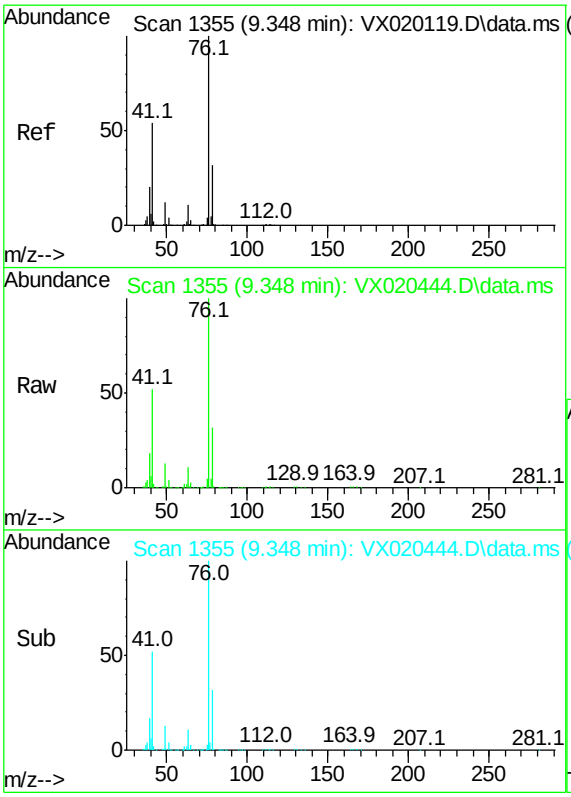
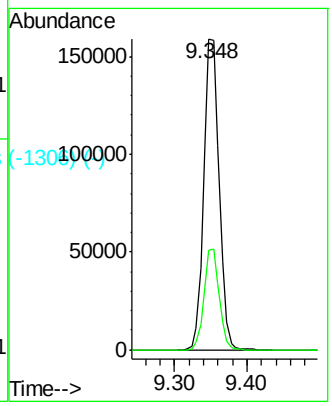
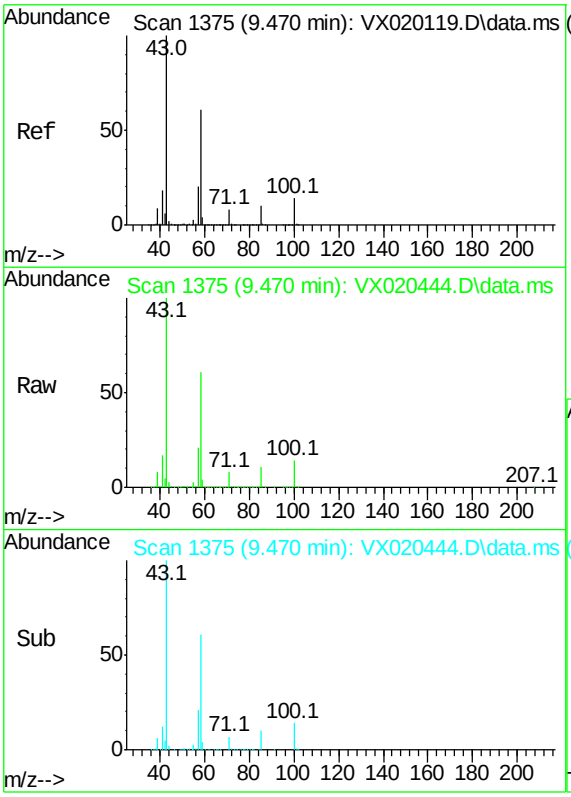


#57
1,3-Dichloropropane
Concen: 51.61 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 76 Resp: 235449

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.2	39.2

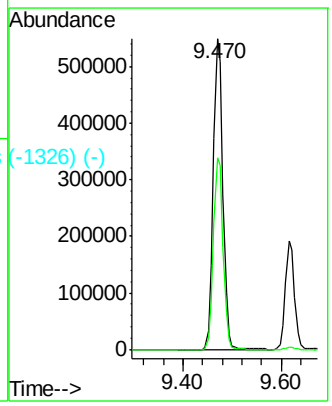




#58
2-Hexanone
Concen: 282.31 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 747419

Ion	Ratio	Lower	Upper
43	100		
58	62.4	30.9	92.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

Manual Integrations APPROVED
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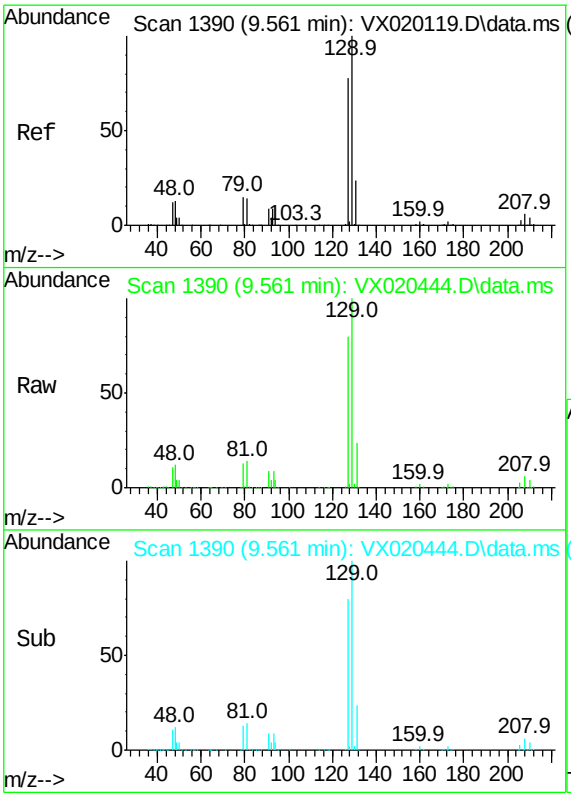
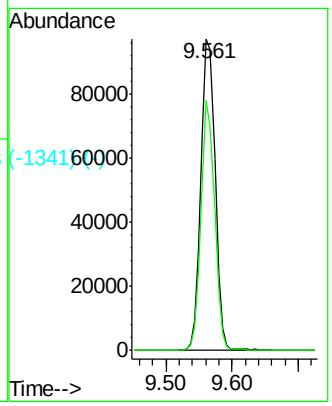
12/30/2020 2:24:07 PM

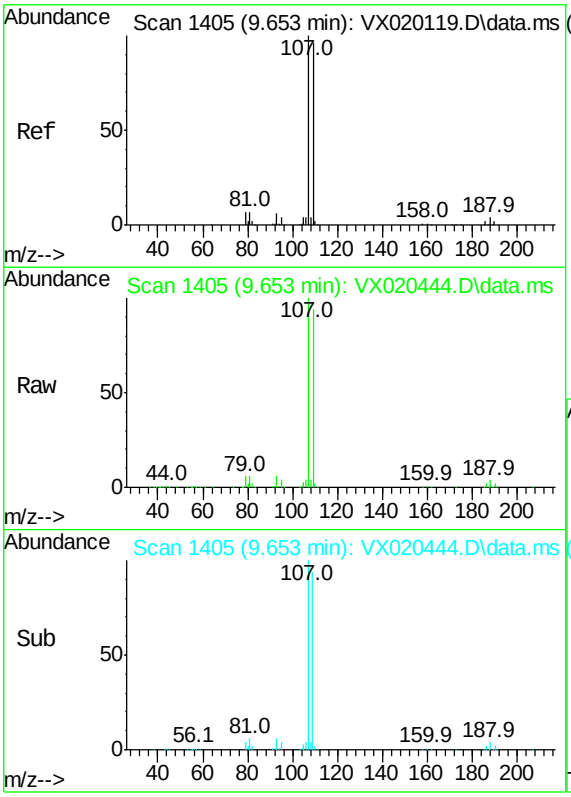


#60
Dibromochloromethane
Concen: 54.09 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:129 Resp: 143843

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.4	115.2

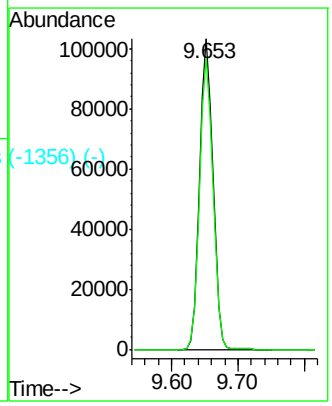




#61
1,2-Dibromoethane
Concen: 51.65 ug/l
RT: 9.653 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:107 Resp: 144546

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.8	113.6



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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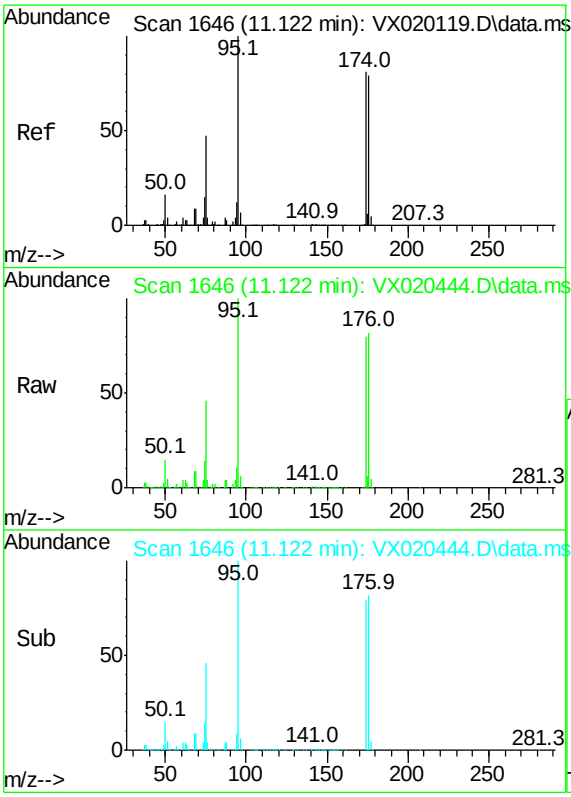
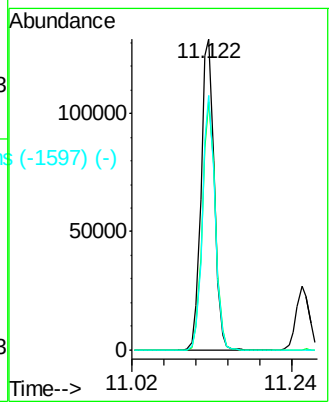
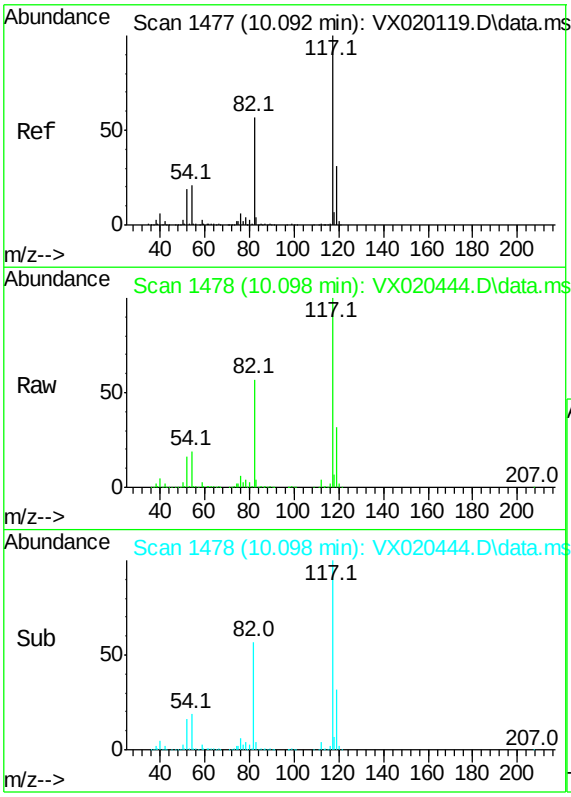


#62
4-Bromofluorobenzene
Concen: 51.53 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 95 Resp: 168085

Ion	Ratio	Lower	Upper
95	100		
174	78.5	0.0	154.6
176	78.2	0.0	155.8

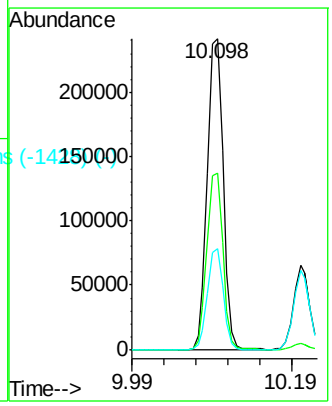




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:117 Resp: 333083

Ion	Ratio	Lower	Upper
117	100		
82	56.7	47.4	71.2
119	32.3	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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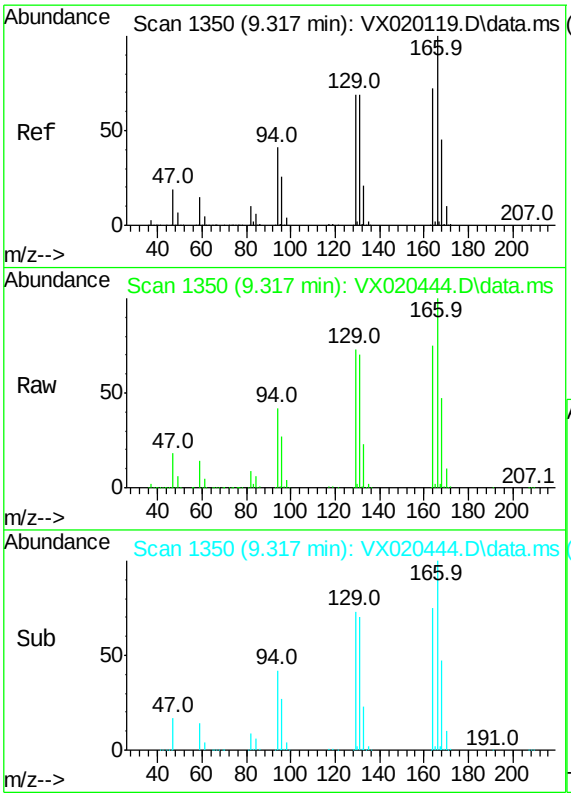
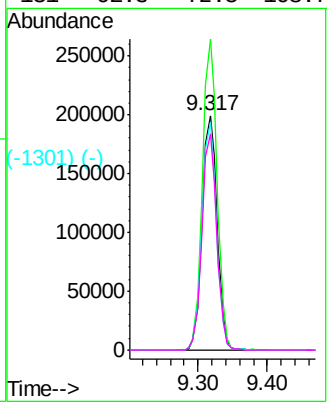
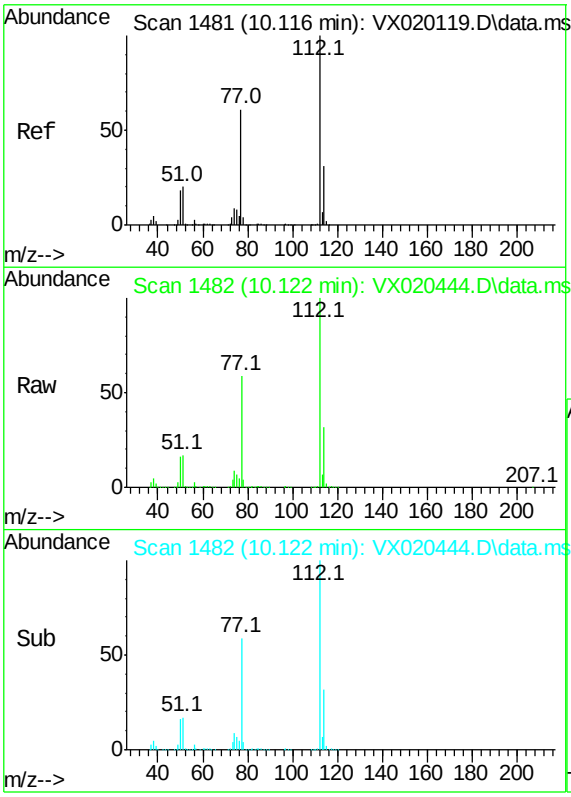


#64
Tetrachloroethene
Concen: 118.02 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:164 Resp: 296193

Ion	Ratio	Lower	Upper
164	100		
166	132.5	103.4	155.2
129	96.8	70.8	106.2
131	92.3	72.5	108.7

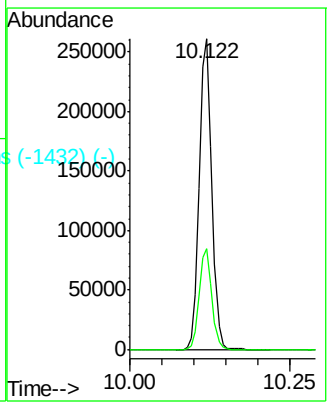




#65
Chlorobenzene
Concen: 49.17 ug/l
RT: 10.122 min Scan# 1482
Delta R.T. 0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:112 Resp: 351393

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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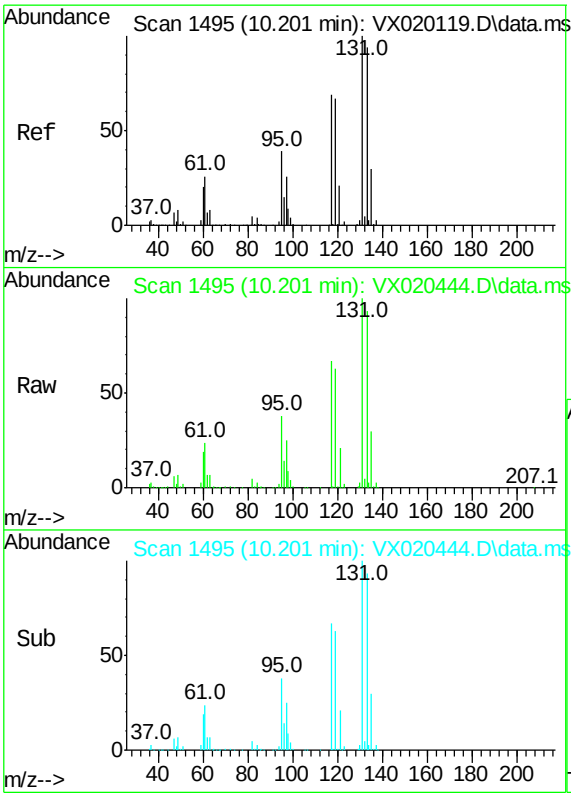
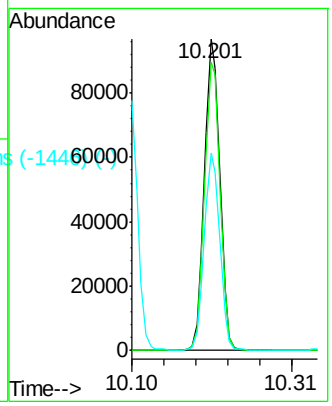
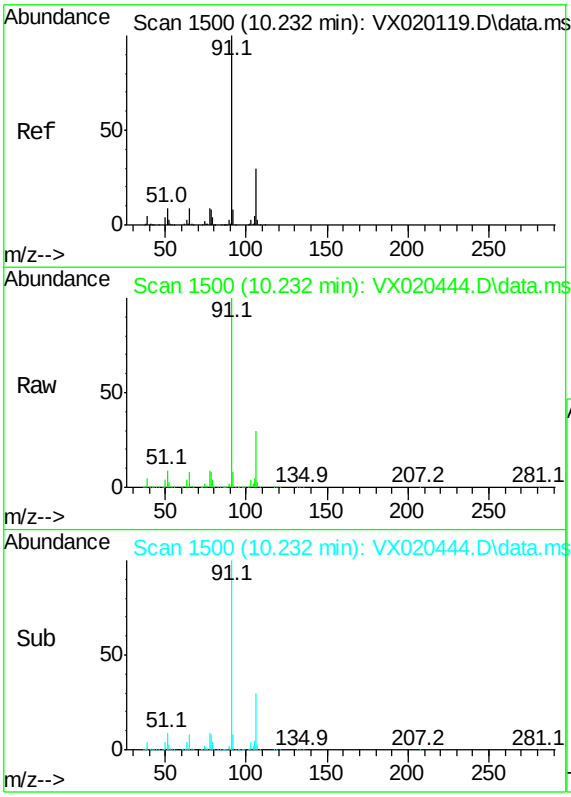


#66
1,1,1,2-Tetrachloroethane
Concen: 52.39 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:131 Resp: 134347

Ion	Ratio	Lower	Upper
131	100		
133	93.7	47.7	143.1
119	63.7	32.1	96.5

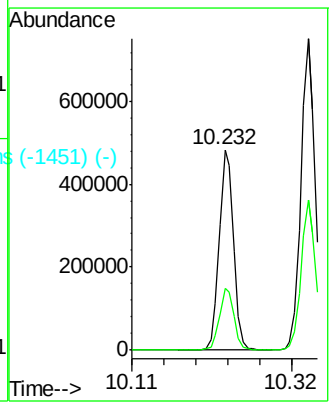




#67
Ethyl Benzene
Concen: 50.14 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 91 Resp: 626349

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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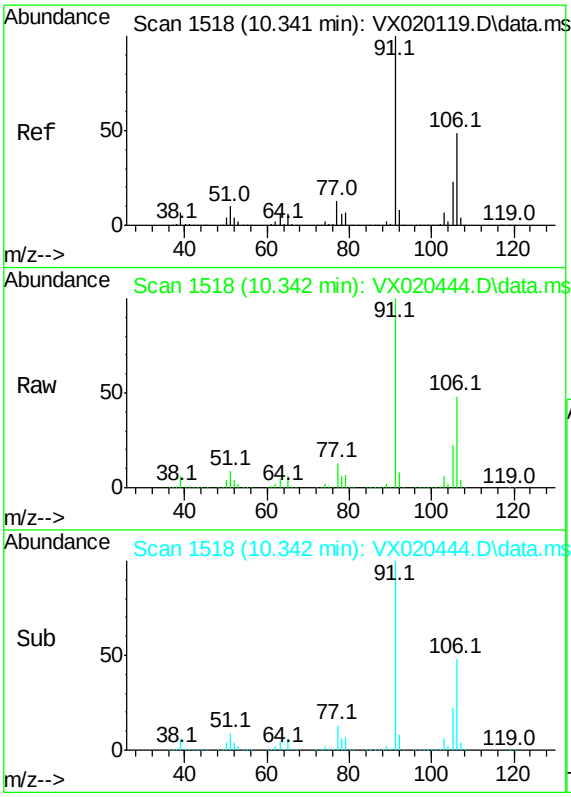
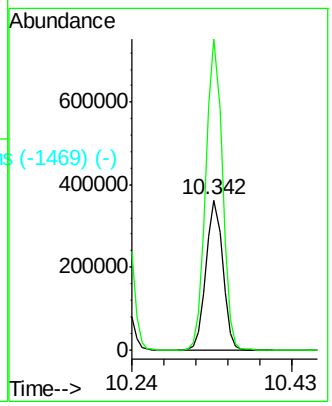
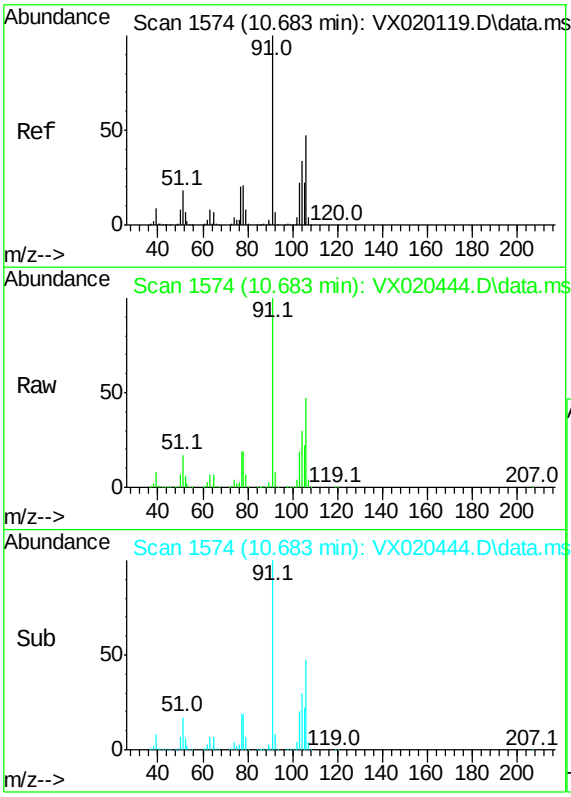


#68
m/p-Xylenes
Concen: 101.84 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.001 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:106 Resp: 474922

Ion	Ratio	Lower	Upper
106	100		
91	206.6	162.8	244.2

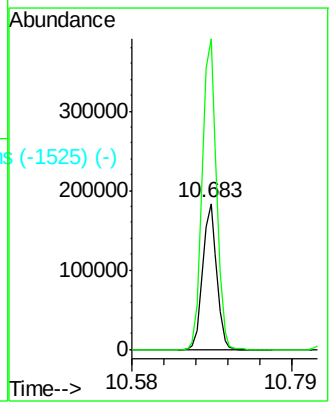




#68
o-Xylene
Concen: 51.17 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:106 Resp: 229668

Ion	Ratio	Lower	Upper
106	100		
91	218.5	108.1	324.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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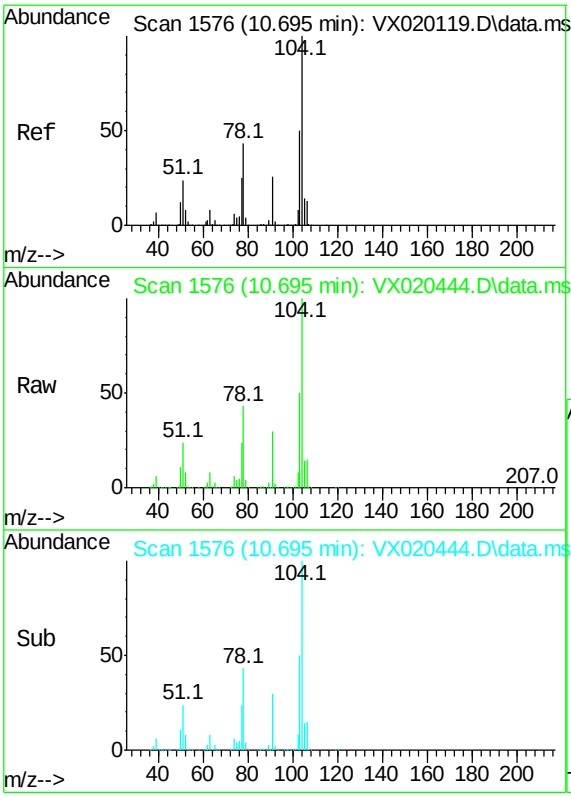
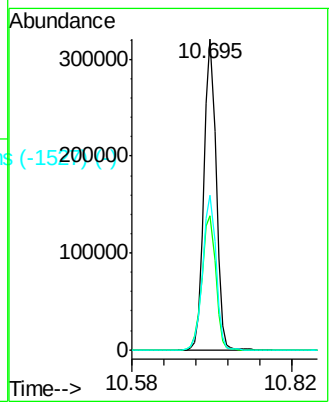
12/30/2020 2:24:07 PM

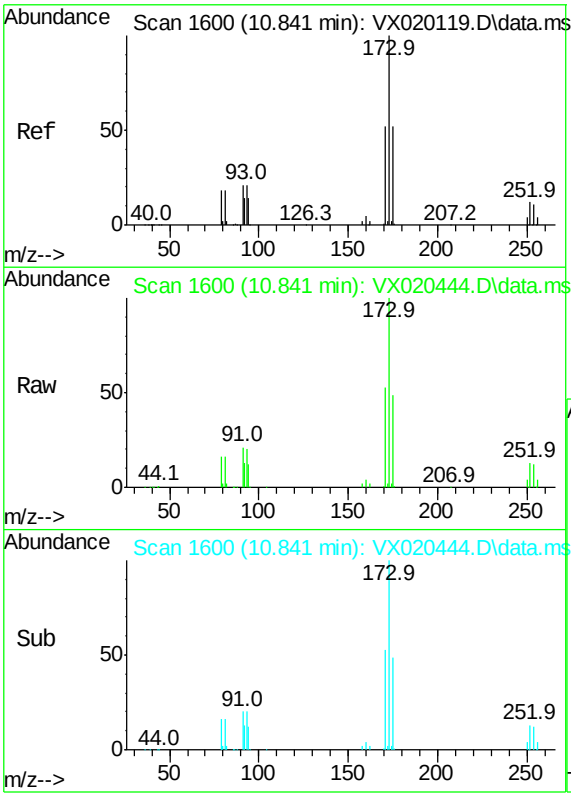


#70
Styrene
Concen: 52.79 ug/l
RT: 10.695 min Scan# 1576
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:104 Resp: 400519

Ion	Ratio	Lower	Upper
104	100		
78	49.3	40.0	60.0
103	54.5	43.4	65.0

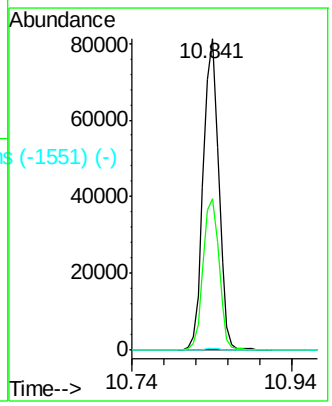




#71
Bromoform
Concen: 54.48 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:173 Resp: 108184

Ion	Ratio	Lower	Upper
173	100		
175	49.9	23.9	71.8
254	0.2	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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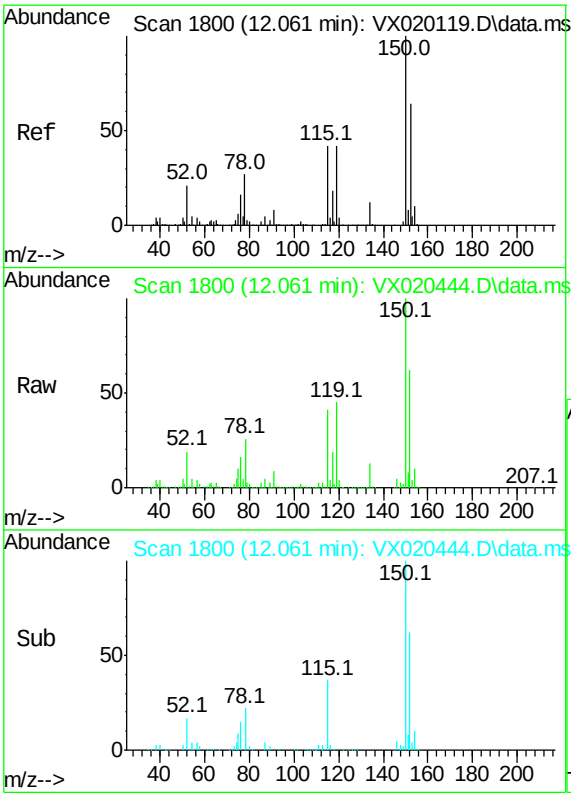
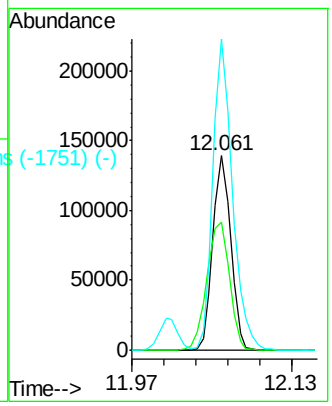
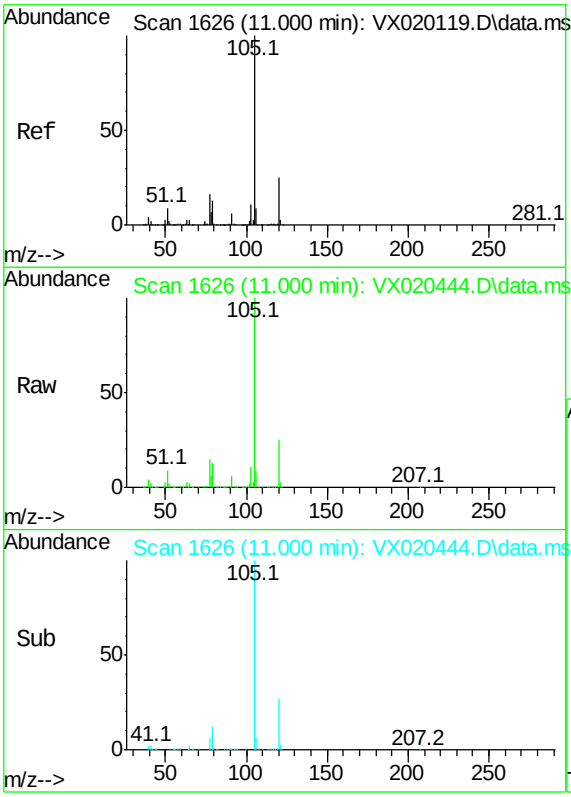


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:152 Resp: 169214

Ion	Ratio	Lower	Upper
152	100		
115	83.8	41.1	123.3
150	174.2	0.0	349.0

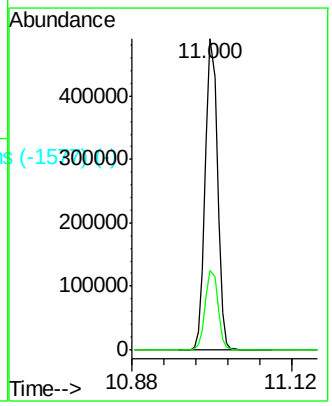




#78
Isopropylbenzene
Concen: 50.36 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:105 Resp: 614994

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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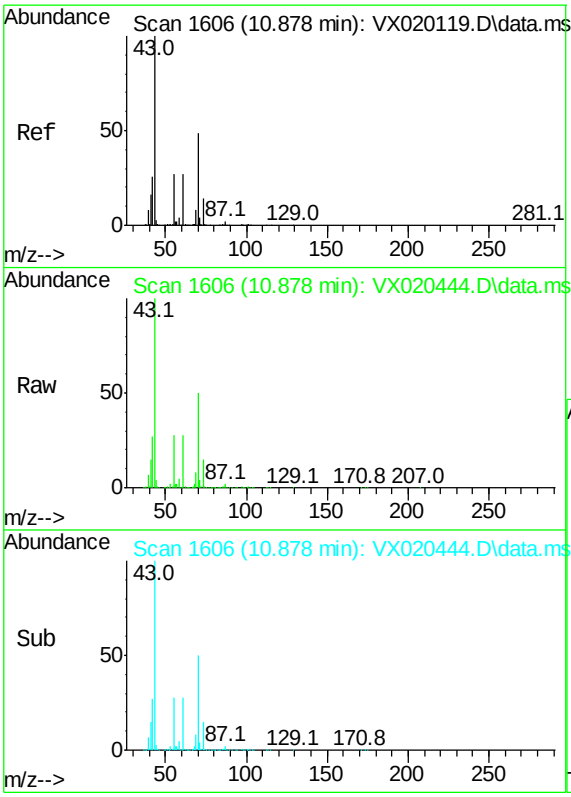
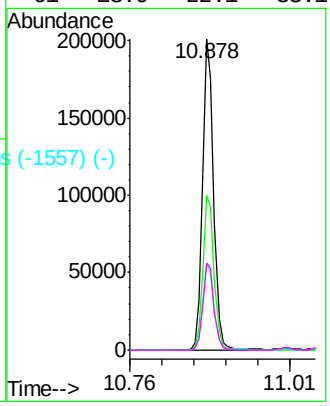
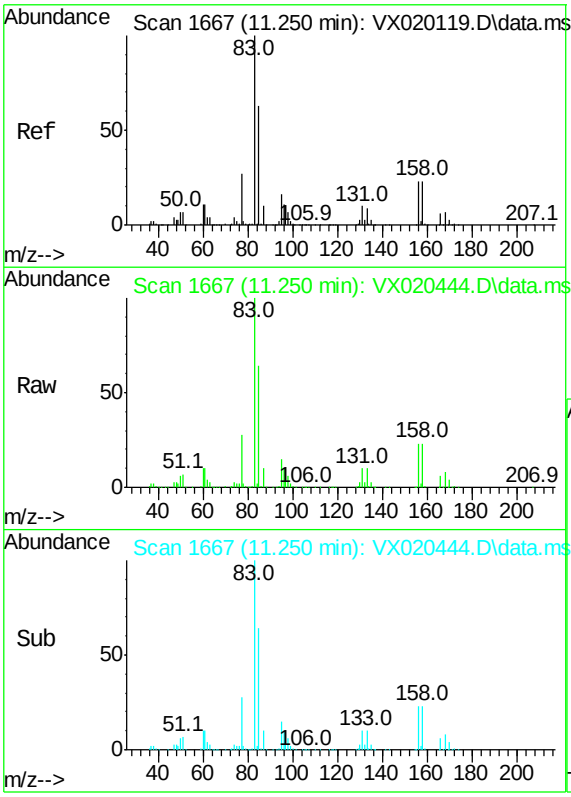


#74
N-amyl acetate
Concen: 47.58 ug/l
RT: 10.878 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 43 Resp: 234207

Ion	Ratio	Lower	Upper
43	100		
70	50.2	39.0	58.6
55	28.2	21.5	32.3
61	28.0	22.1	33.1

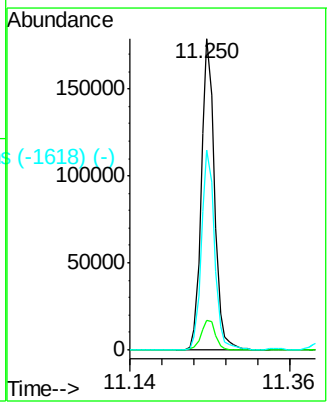




#75
1,1,2,2-Tetrachloroethane
Concen: 51.09 ug/l
RT: 11.250 min Scan# 1667
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 83 Resp: 226579

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.2
85	64.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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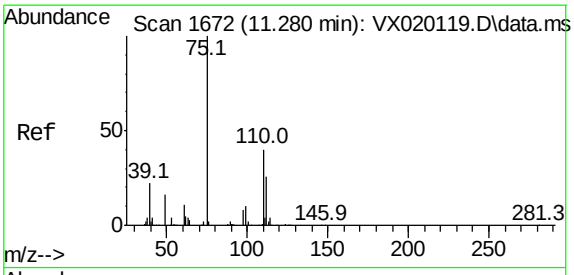
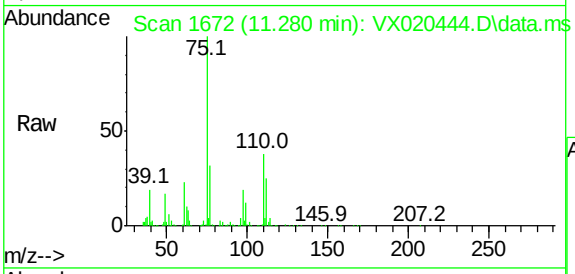
12/30/2020 2:24:07 PM

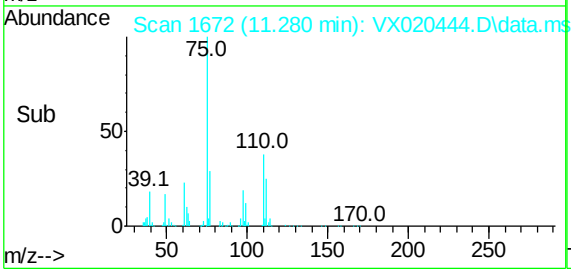


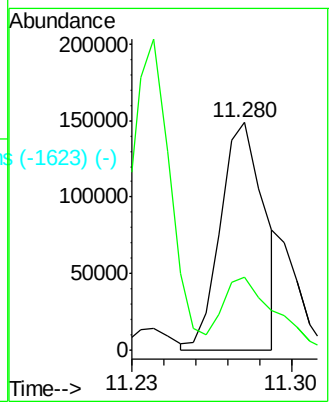
#76
1,2,3-Trichloropropane
Concen: 50.23 ug/l m
RT: 11.280 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

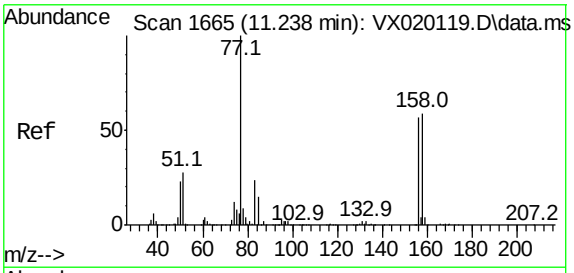
Tgt Ion: 75 Resp: 209362

Ion	Ratio	Lower	Upper
75	100		
77	38.5	19.1	57.5





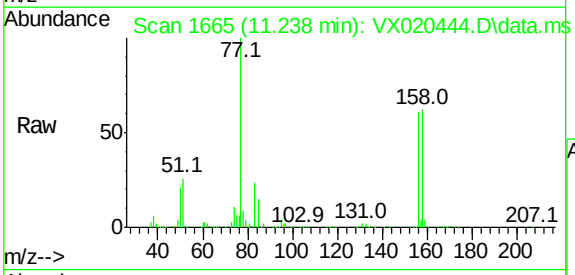


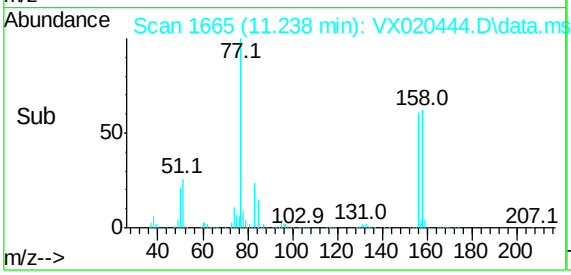


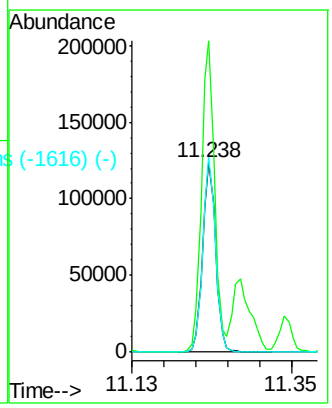
#77
Bromobenzene
Concen: 48.46 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:156 Resp: 156448

Ion	Ratio	Lower	Upper
156	100		
77	165.6	82.8	248.6
158	99.8	49.1	147.4







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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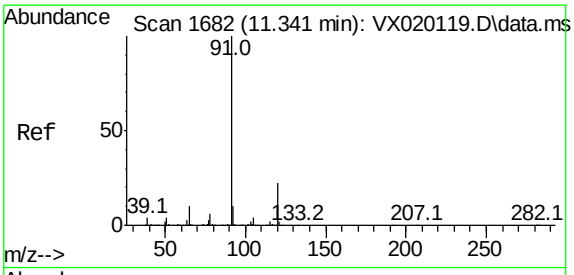
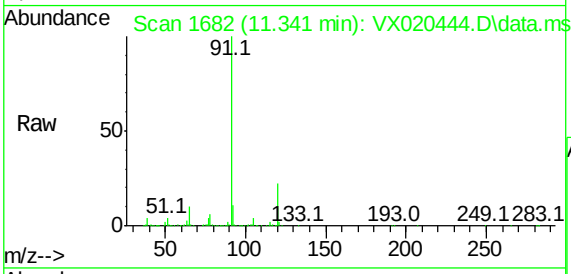
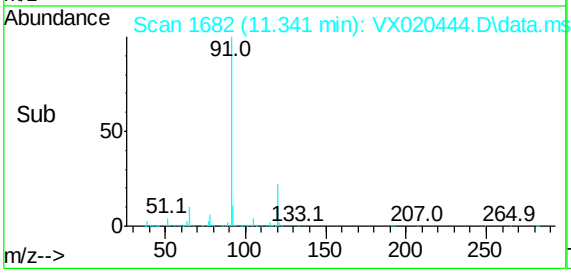


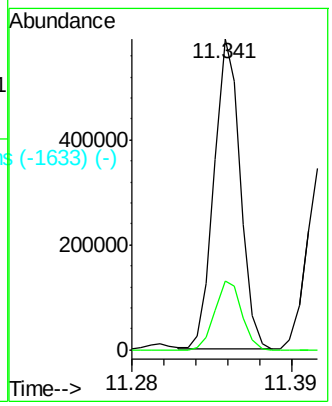
#78
n-propylbenzene
Concen: 49.88 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

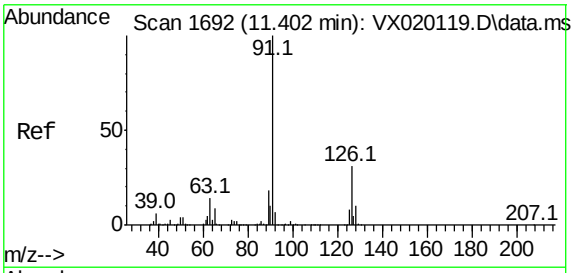
Tgt Ion: 91 Resp: 701999

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5





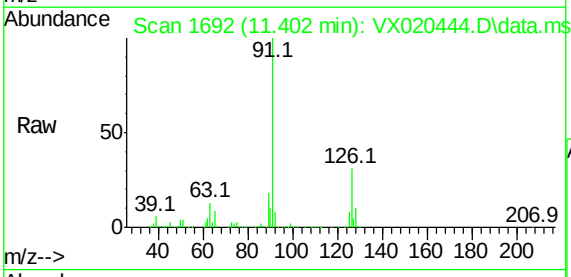


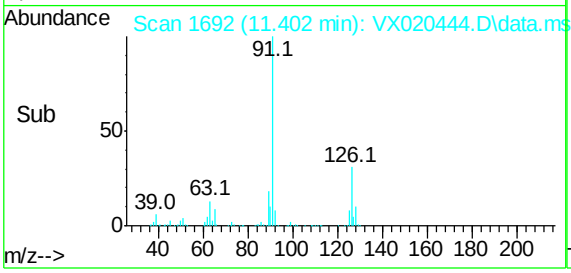


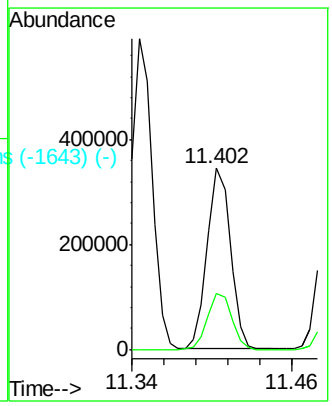
#79
2-Chlorotoluene
Concen: 49.06 ug/l
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 91 Resp: 430582

Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.6	49.8







Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

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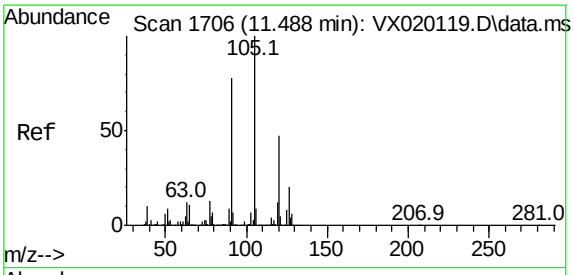
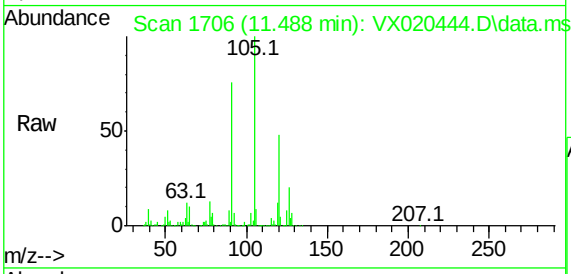
12/30/2020 2:24:07 PM

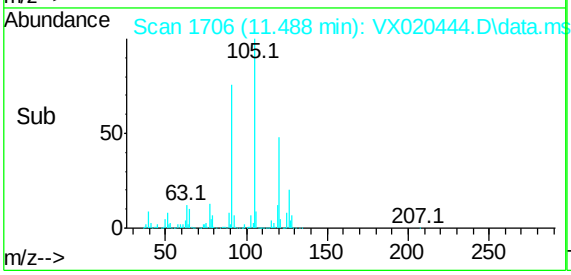


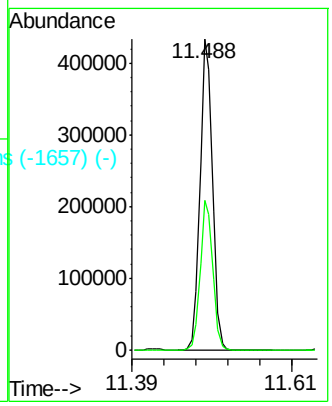
#80
1,3,5-Trimethylbenzene
Concen: 50.81 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

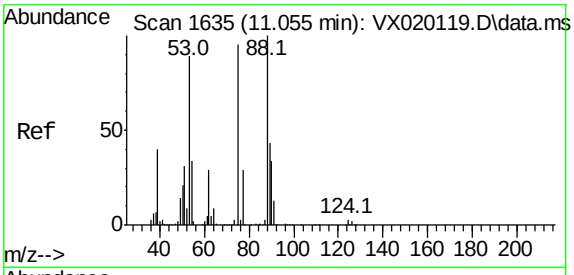
Tgt Ion:105 Resp: 525973

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.8	71.5





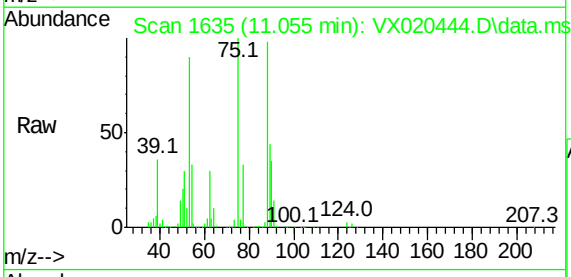


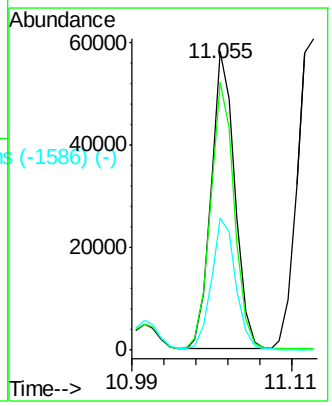


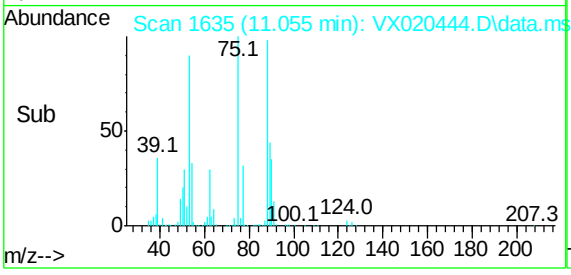
#81
trans-1,4-Dichloro-2-butene
Concen: 49.37 ug/l
RT: 11.055 min Scan# 1635
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 75 Resp: 69359

Ion	Ratio	Lower	Upper
75	100		
53	89.9	74.5	111.7
89	44.9	37.9	56.9

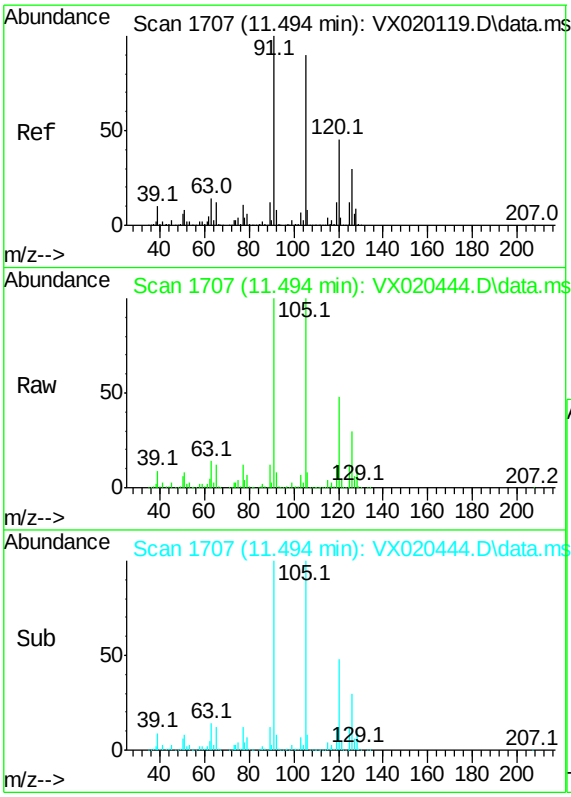






Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

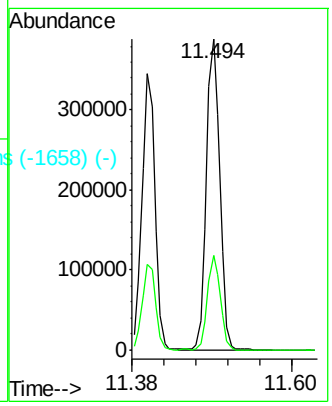
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM

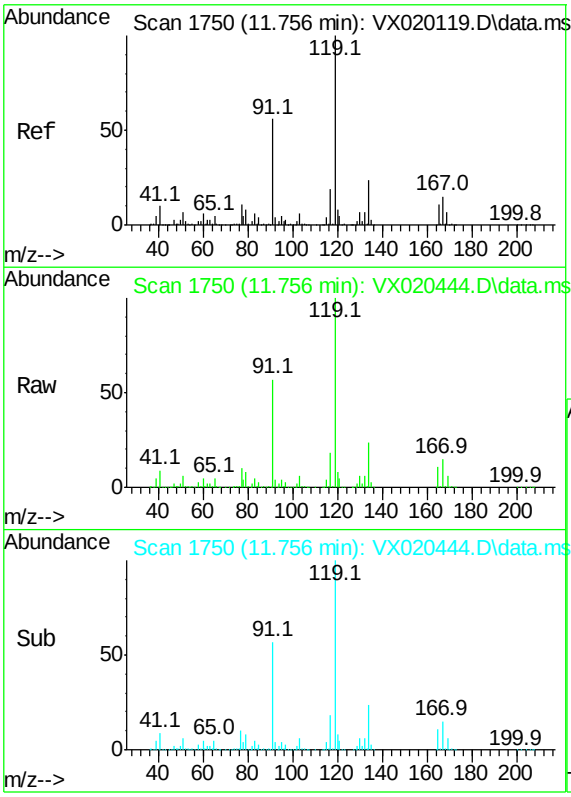


#82
4-Chlorotoluene
Concen: 48.77 ug/l
RT: 11.494 min Scan# 1707
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 91 Resp: 499890

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.9	44.5

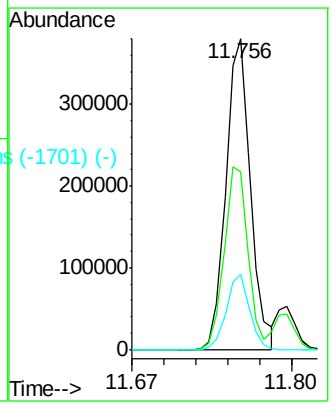




#83
tert-Butylbenzene
Concen: 50.86 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

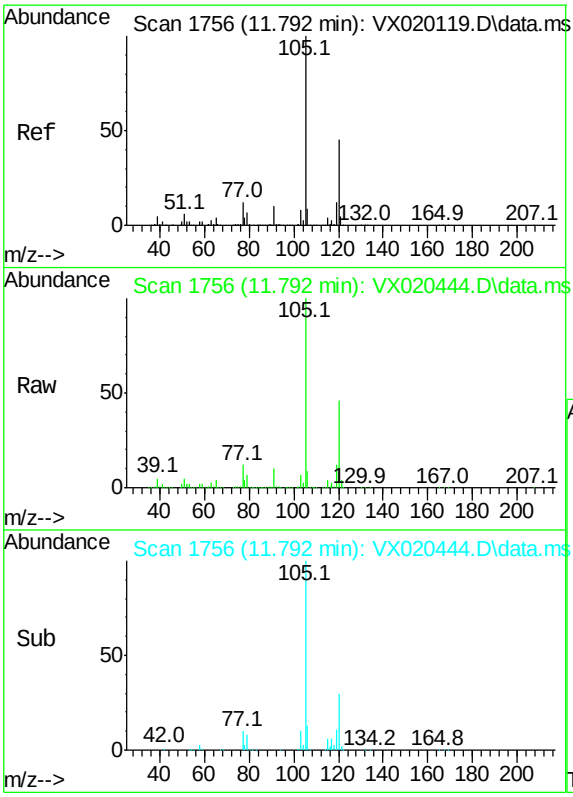
Tgt Ion:119 Resp: 505253

Ion	Ratio	Lower	Upper
119	100		
91	56.9	27.9	83.7
134	22.9	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

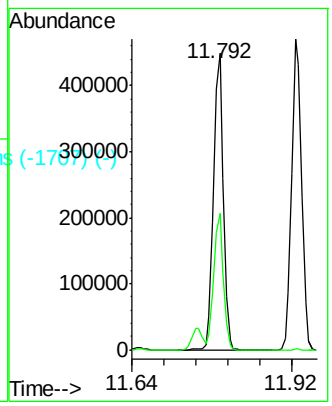
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM

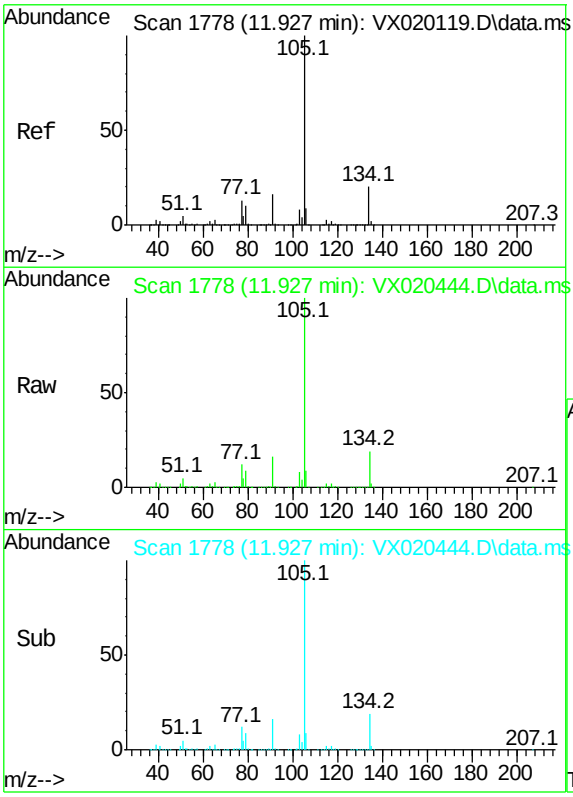


#84
1,2,4-Trimethylbenzene
Concen: 50.87 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:105 Resp: 534526

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.4	67.3

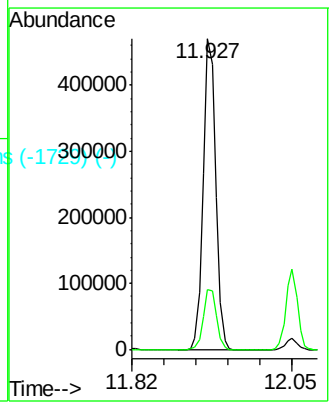




#85
sec-Butylbenzene
Concen: 50.78 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

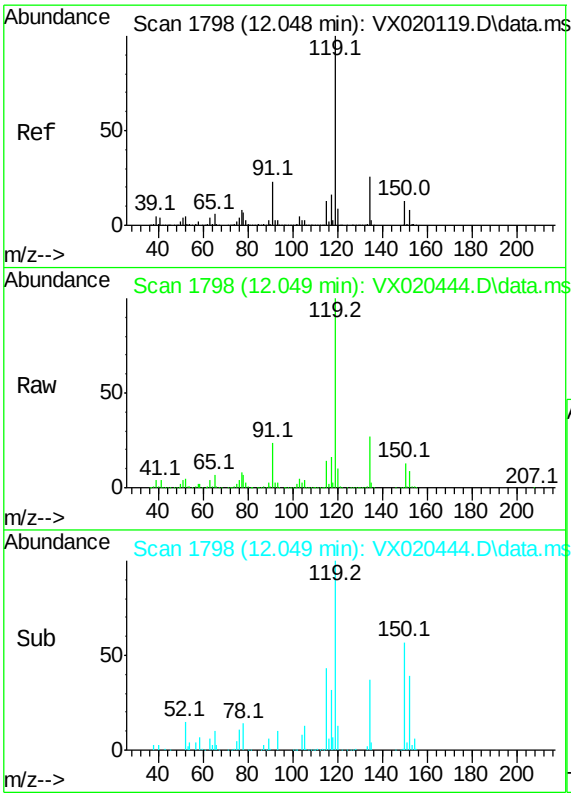
Tgt Ion:105 Resp: 582114

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	29.8



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

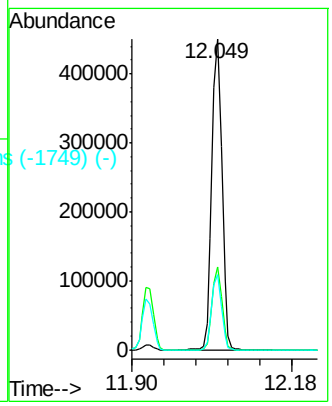
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM

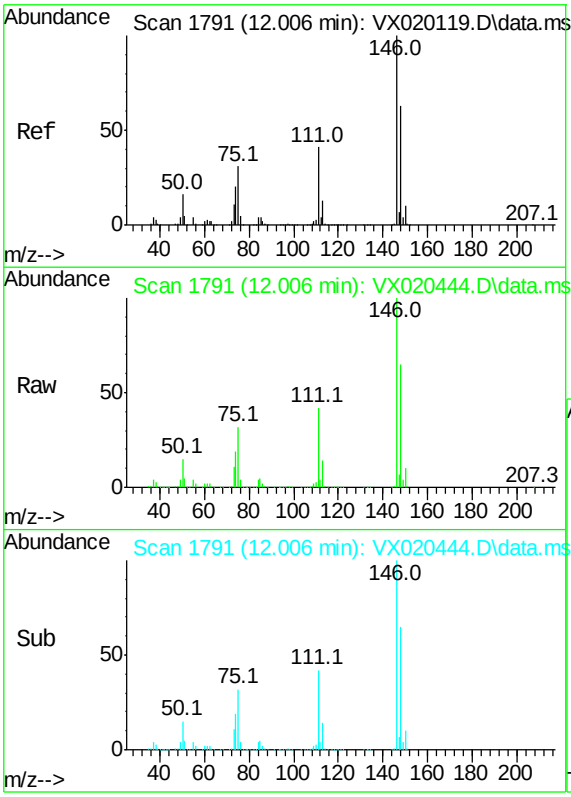


#86
p-Isopropyltoluene
Concen: 50.44 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.001 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:119 Resp: 533270

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	23.5	11.7	35.0

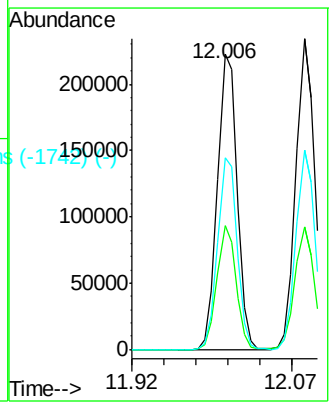




#87
1,3-Dichlorobenzene
Concen: 48.14 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

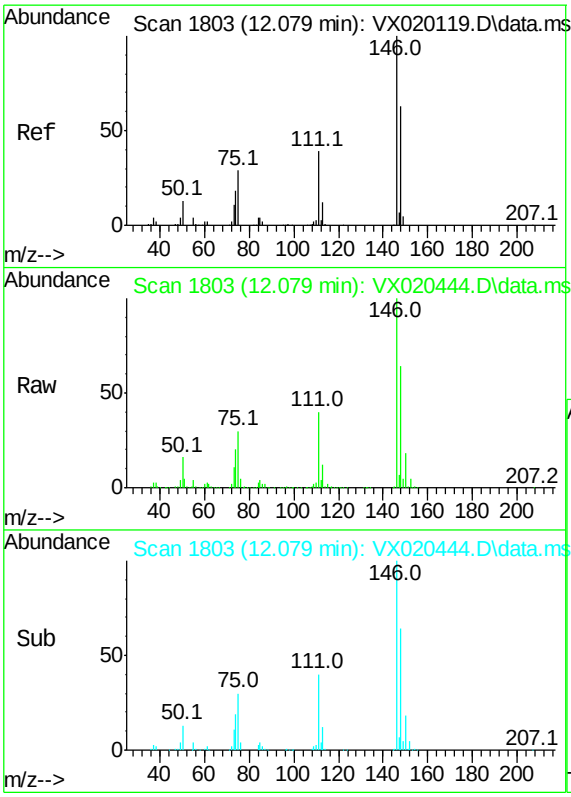
Tgt Ion:146 Resp: 277804

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.2	60.5
148	64.4	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

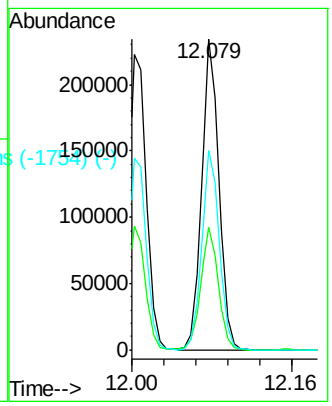
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM

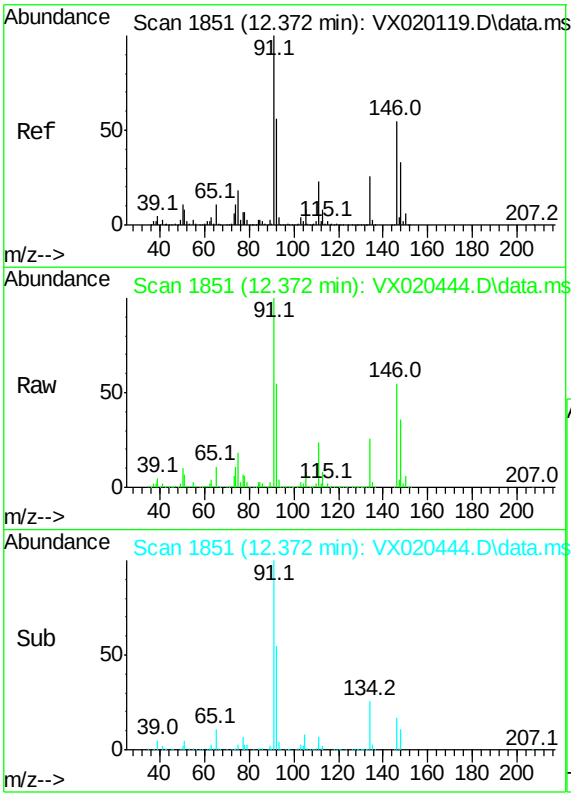


#88
1,4-Dichlorobenzene
Concen: 46.41 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:146 Resp: 279407

Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.6	58.8
148	65.2	31.6	95.0

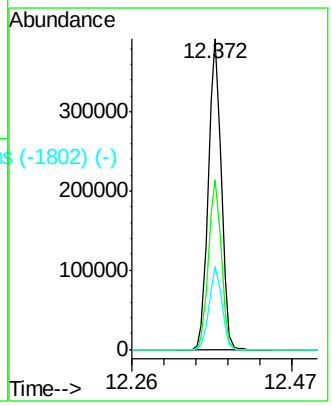




#89
n-Butylbenzene
Concen: 49.09 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

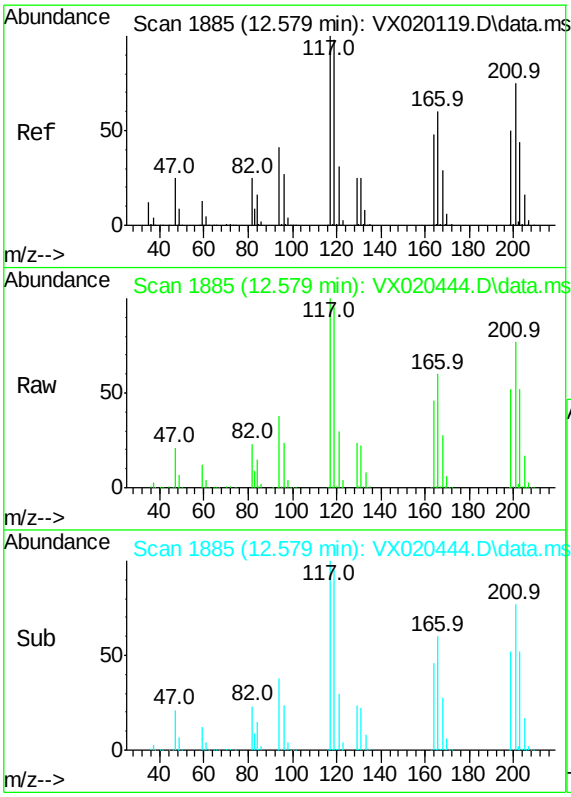
Tgt Ion: 91 Resp: 454732

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.4	82.0
134	26.2	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

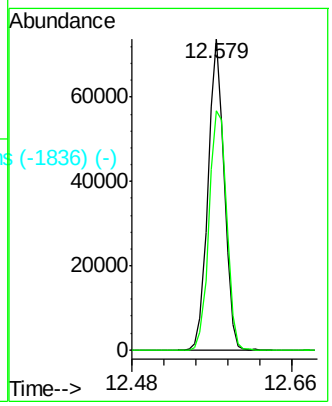
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM

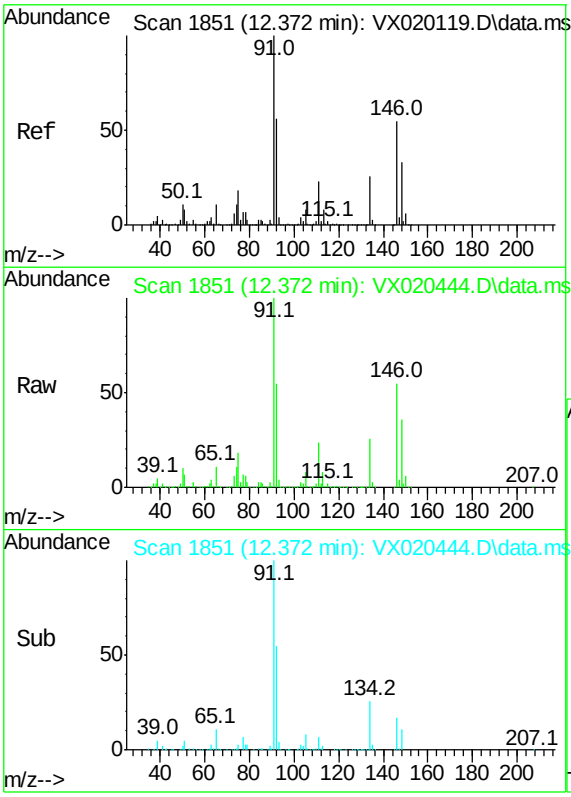


#90
Hexachloroethane
Concen: 50.88 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:117 Resp: 92802

Ion	Ratio	Lower	Upper
117	100		
201	83.7	40.4	121.2

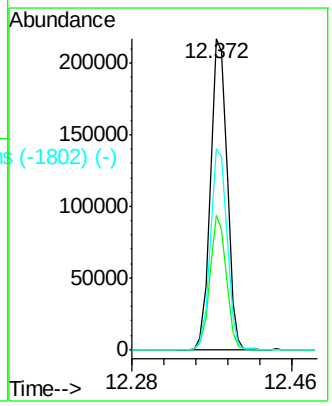




#91
1,2-Dichlorobenzene
Concen: 48.83 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

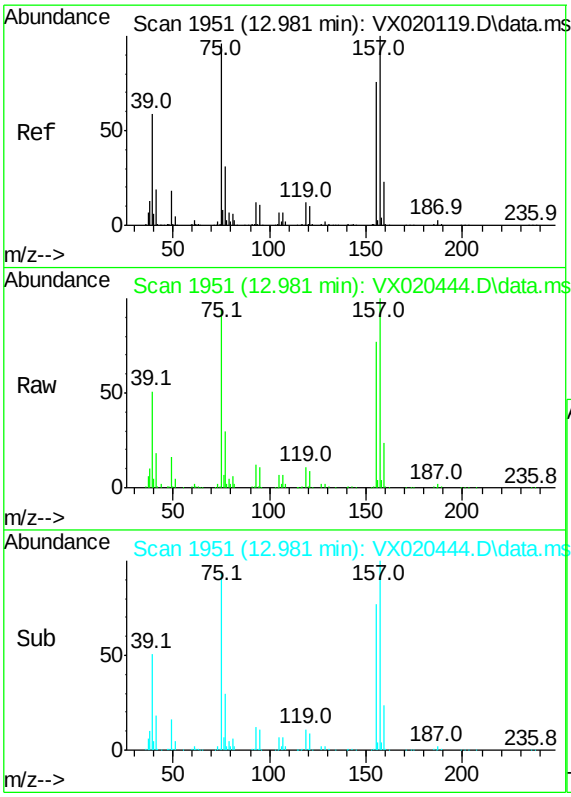
Tgt Ion:146 Resp: 280417

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.8	62.2
148	64.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

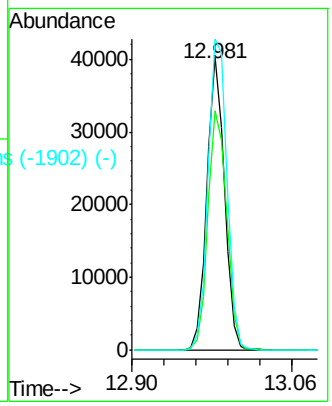
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM

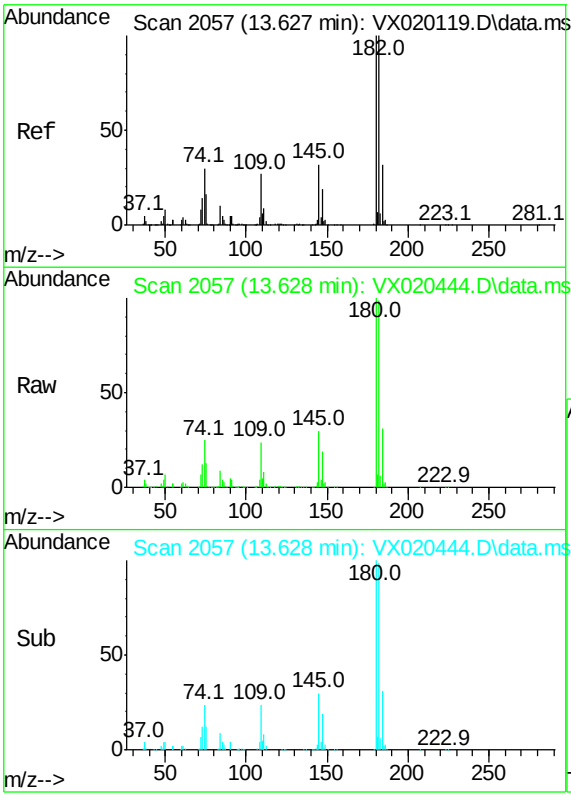


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.89 ug/l
RT: 12.981 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion: 75 Resp: 48296

Ion	Ratio	Lower	Upper
75	100		
155	86.9	45.3	135.9
157	113.4	57.7	173.1

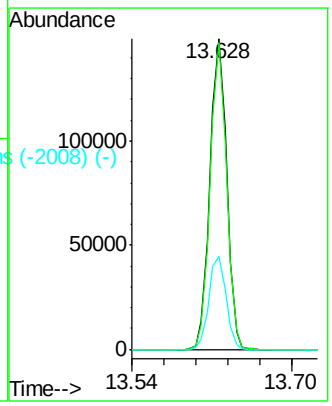




#93
1,2,4-Trichlorobenzene
Concen: 48.49 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.001 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

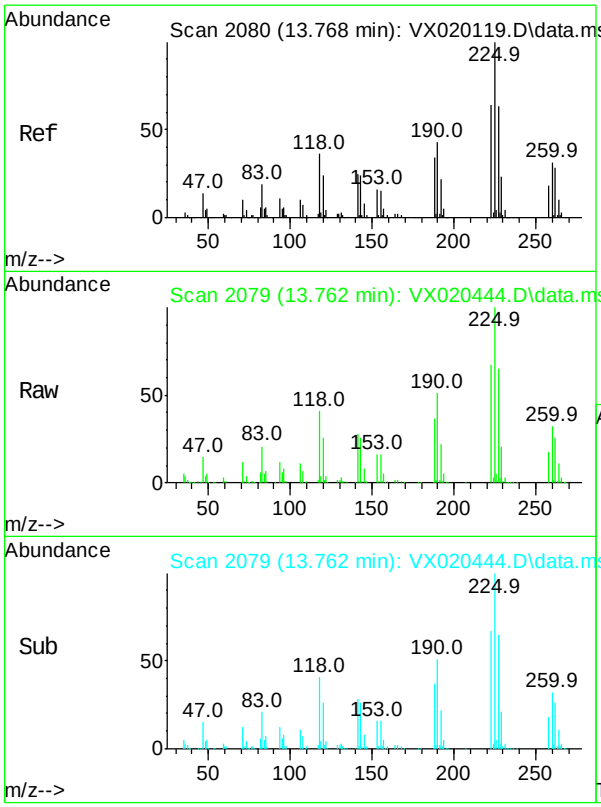
Tgt Ion:180 Resp: 179086

Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.7	143.1
145	30.6	15.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

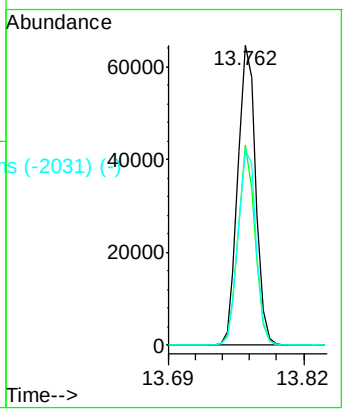
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM

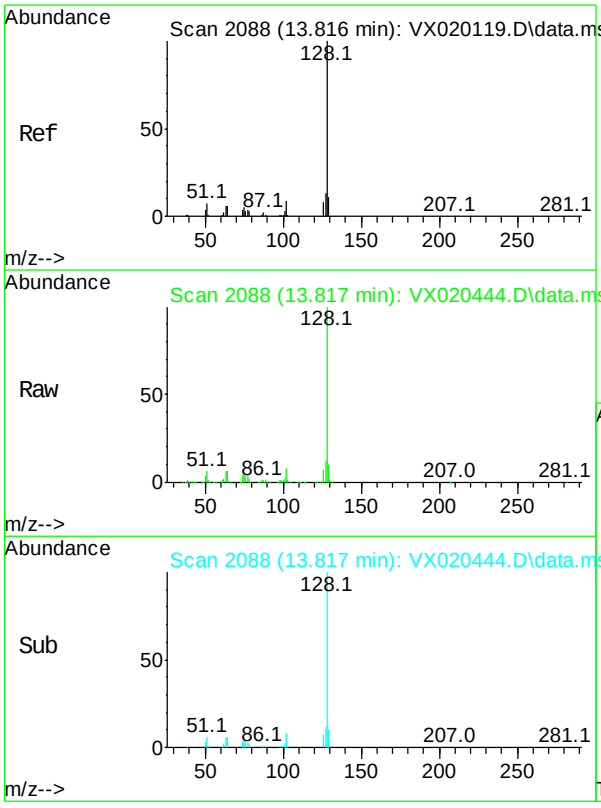


#94
Hexachlorobutadiene
Concen: 51.74 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:225 Resp: 80368

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.1	93.2
227	65.4	31.6	95.0

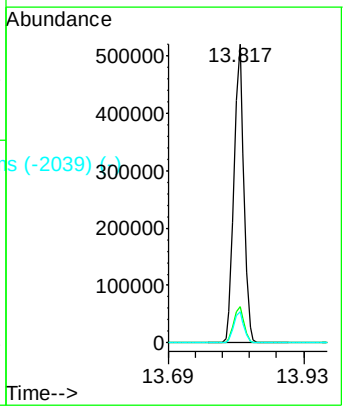




#95
Naphthalene
Concen: 53.44 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

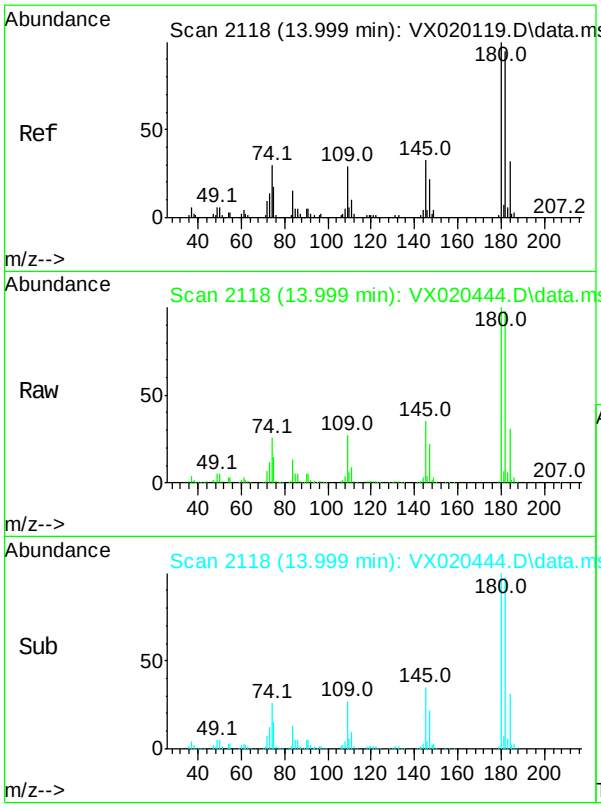
Tgt Ion:128 Resp: 625020

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.6	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
1016-MW-02(23.8)MSD

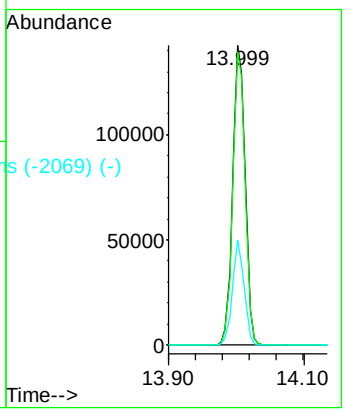
Manual Integrations APPROVED
SAM
12/30/2020 2:24:07 PM



#96
1,2,3-Trichlorobenzene
Concen: 49.34 ug/l
RT: 13.999 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VX020444.D
Acq: 29 Dec 2020 19:04

Tgt Ion:180 Resp: 180257

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.6	142.9
145	32.8	16.1	48.3



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Manual Integration Report

Sequence:	VX121820	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX020116.D	1,2,3-Trichloropropane	john	12/19/2020 9:38:58 AM	MMDadoda	12/21/2020 3:57:52 PM	Peak Integrated by Software incorrectly
VSTDICC001	VX020116.D	1,4-Dichlorobenzene	john	12/19/2020 9:38:58 AM	MMDadoda	12/21/2020 3:57:52 PM	Peak Integrated by Software incorrectly
VSTDICC005	VX020117.D	1,2,3-Trichloropropane	john	12/19/2020 9:39:02 AM	MMDadoda	12/21/2020 3:57:53 PM	Peak Integrated by Software incorrectly
VSTDICC020	VX020118.D	1,2,3-Trichloropropane	john	12/19/2020 9:39:06 AM	MMDadoda	12/21/2020 3:57:55 PM	Peak Integrated by Software incorrectly
VSTDICCC050	VX020119.D	1,2,3-Trichloropropane	john	12/19/2020 9:39:10 AM	MMDadoda	12/21/2020 3:57:56 PM	Peak Integrated by Software incorrectly
VSTDICC100	VX020120.D	1,2,3-Trichloropropane	john	12/19/2020 9:39:14 AM	MMDadoda	12/21/2020 3:57:58 PM	Peak Integrated by Software incorrectly
VSTDICC150	VX020121.D	1,2,3-Trichloropropane	john	12/19/2020 9:39:18 AM	MMDadoda	12/21/2020 3:57:59 PM	Peak Integrated by Software incorrectly
VSTDICV050	VX020123.D	1,2,3-Trichloropropane	john	12/19/2020 9:39:22 AM	MMDadoda	12/21/2020 3:58:15 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VX020139.D	1,2,3-Trichloropropane	john	12/19/2020 9:39:55 AM	MMDadoda	12/21/2020 3:58:32 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VX020141.D	1,2,3-Trichloropropane	john	12/19/2020 9:40:50 AM	MMDadoda	12/21/2020 3:58:34 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VX020164.D	1,2,3-Trichloropropane	MMDadododa	12/21/2020 4:21:29 PM	SAM	12/21/2020 5:36:29 PM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence:	vx122920	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX020423.D	1,2,3-Trichloropropane	MMDadoda	12/30/2020 12:25:29 PM	SAM	12/30/2020 2:23:42 PM	Peak Integrated by Software incorrectly
VX1229WBS01	VX020425.D	1,2,3-Trichloropropane	MMDadoda	12/30/2020 12:25:33 PM	SAM	12/30/2020 2:23:47 PM	Peak Integrated by Software incorrectly
L5236-03MS	VX020443.D	1,2,3-Trichloropropane	MMDadoda	12/30/2020 12:25:48 PM	SAM	12/30/2020 2:24:00 PM	Peak Integrated by Software incorrectly
L5236-04MSD	VX020444.D	1,2,3-Trichloropropane	MMDadoda	12/30/2020 12:25:53 PM	SAM	12/30/2020 2:24:07 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VX020445.D	1,2,3-Trichloropropane	MMDadoda	12/30/2020 12:25:57 PM	SAM	12/30/2020 2:24:13 PM	Peak Integrated by Software incorrectly

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121820

Review By	MMDadoda	Review On	12/21/2020 3:58:55 PM		
Supervise By	SAM	Supervise On	12/21/2020 5:36:54 PM		
SubDirectory	VX121820	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99069,VP99073
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99070,VP99083,VP99084,VP99085
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX020114.D	18 Dec 2020 08:40	JC/MD	Ok
2	VSTDCCC050	VX020115.D	18 Dec 2020 09:53	JC/MD	Not Ok
3	VSTDICC001	VX020116.D	18 Dec 2020 10:28	JC/MD	Ok,M
4	VSTDICC005	VX020117.D	18 Dec 2020 10:59	JC/MD	Ok,M
5	VSTDICC020	VX020118.D	18 Dec 2020 11:22	JC/MD	Ok,M
6	VSTDICCC050	VX020119.D	18 Dec 2020 11:57	JC/MD	Ok,M
7	VSTDICC100	VX020120.D	18 Dec 2020 12:20	JC/MD	Ok,M
8	VSTDICC150	VX020121.D	18 Dec 2020 12:43	JC/MD	Ok,M
9	IBLK	VX020122.D	18 Dec 2020 13:07	JC/MD	Ok
10	VSTDICV050	VX020123.D	18 Dec 2020 13:32	JC/MD	Ok,M
11	VX1218WBL01	VX020124.D	18 Dec 2020 14:05	JC/MD	Ok
12	L5140-01	VX020125.D	18 Dec 2020 14:37	JC/MD	Ok
13	VX1218WBS01	VX020126.D	18 Dec 2020 15:00	JC/MD	Ok,M
14	VX1218MBL01	VX020127.D	18 Dec 2020 15:23	JC/MD	Ok
15	L5059-01	VX020128.D	18 Dec 2020 16:00	JC/MD	Ok
16	L5126-10	VX020129.D	18 Dec 2020 16:23	JC/MD	Ok
17	VX1218MBS01	VX020130.D	18 Dec 2020 16:46	JC/MD	Ok,M
18	VX1218MBSD01	VX020131.D	18 Dec 2020 17:09	JC/MD	Ok,M
19	VX1218WBSD01	VX020132.D	18 Dec 2020 17:32	JC/MD	Ok,M
20	L5053-05	VX020133.D	18 Dec 2020 17:55	JC/MD	Ok
21	L5053-07	VX020134.D	18 Dec 2020 18:19	JC/MD	Ok
22	L5053-11	VX020135.D	18 Dec 2020 18:42	JC/MD	Ok
23	L5053-13	VX020136.D	18 Dec 2020 19:05	JC/MD	Ok
24	L5053-02	VX020137.D	18 Dec 2020 19:28	JC/MD	Dilution
25	L5053-04	VX020138.D	18 Dec 2020 19:51	JC/MD	Dilution
26	VSTDCCC050	VX020139.D	18 Dec 2020 20:15	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121820

Review By	MMDadoda	Review On	12/21/2020 3:58:55 PM		
Supervise By	SAM	Supervise On	12/21/2020 5:36:54 PM		
SubDirectory	VX121820	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99069,VP99073
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99070,VP99083,VP99084,VP99085
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

27	BFB	VX020140.D	19 Dec 2020 00:09	JC/MD	Ok
28	VSTDCCC050	VX020141.D	19 Dec 2020 00:46	JC/MD	Ok,M
29	VX1218WBL02	VX020142.D	19 Dec 2020 01:25	JC/MD	Ok
30	VX1218WBS02	VX020143.D	19 Dec 2020 02:09	JC/MD	Not Ok
31	VX1218WBS03	VX020144.D	19 Dec 2020 02:46	JC/MD	Ok,M
32	PB133677TB	VX020145.D	19 Dec 2020 03:32	JC/MD	Ok
33	PB133677ZHE#08	VX020146.D	19 Dec 2020 03:55	JC/MD	Ok
34	PB133677ZHE#09	VX020147.D	19 Dec 2020 04:18	JC/MD	Ok
35	PB133677ZHE#10	VX020148.D	19 Dec 2020 04:41	JC/MD	Ok
36	L5126-03	VX020149.D	19 Dec 2020 05:05	JC/MD	Not Ok
37	L5126-11	VX020150.D	19 Dec 2020 05:28	JC/MD	Not Ok
38	L5141-03	VX020151.D	19 Dec 2020 05:51	JC/MD	Not Ok
39	L5053-08DL	VX020152.D	19 Dec 2020 06:14	JC/MD	Ok
40	L5053-14DL	VX020153.D	19 Dec 2020 06:38	JC/MD	Ok
41	L5053-15	VX020154.D	19 Dec 2020 07:01	JC/MD	Ok
42	L5053-16DL	VX020155.D	19 Dec 2020 07:24	JC/MD	Ok
43	L5053-17DL	VX020156.D	19 Dec 2020 07:48	JC/MD	Ok
44	L5053-03	VX020157.D	19 Dec 2020 08:11	JC/MD	Ok
45	L5053-09	VX020158.D	19 Dec 2020 08:34	JC/MD	Ok
46	L5144-01	VX020159.D	19 Dec 2020 08:57	JC/MD	Ok
47	L5144-02	VX020160.D	19 Dec 2020 09:20	JC/MD	Ok
48	VX1218WBSD03	VX020161.D	19 Dec 2020 09:44	JC/MD	Ok,M
49	L5144-04	VX020162.D	19 Dec 2020 10:07	JC/MD	Ok
50	L5144-03	VX020163.D	19 Dec 2020 10:30	JC/MD	Ok
51	VSTDCCC050	VX020164.D	19 Dec 2020 10:53	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122920

Review By	MMDadoda	Review On	12/30/2020 1:07:24 PM		
Supervise By	SAM	Supervise On	12/30/2020 2:24:30 PM		
SubDirectory	VX122920	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99377
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99378,VP99379
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX020422.D	29 Dec 2020 08:47	JC/MD	Ok
2	VSTDCCC050	VX020423.D	29 Dec 2020 09:57	JC/MD	Ok,M
3	VX1229WBL01	VX020424.D	29 Dec 2020 10:55	JC/MD	Ok
4	VX1229WBS01	VX020425.D	29 Dec 2020 11:28	JC/MD	Ok,M
5	VX1229WBSD01	VX020426.D	29 Dec 2020 11:59	JC/MD	Ok,M
6	L5236-14	VX020427.D	29 Dec 2020 12:25	JC/MD	Ok
7	L5236-13	VX020428.D	29 Dec 2020 12:48	JC/MD	ReRun
8	L5236-01DL	VX020429.D	29 Dec 2020 13:12	JC/MD	Ok
9	L5236-05	VX020430.D	29 Dec 2020 13:35	JC/MD	Dilution
10	L5236-05DL	VX020431.D	29 Dec 2020 13:59	JC/MD	Ok
11	L5236-07	VX020432.D	29 Dec 2020 14:22	JC/MD	Ok
12	L5236-07DL	VX020433.D	29 Dec 2020 14:46	JC/MD	Not Ok
13	L5236-01	VX020434.D	29 Dec 2020 15:09	JC/MD	Dilution
14	L5236-06	VX020435.D	29 Dec 2020 15:32	JC/MD	Ok
15	L5236-08	VX020436.D	29 Dec 2020 15:56	JC/MD	Ok
16	L5236-09	VX020437.D	29 Dec 2020 16:19	JC/MD	Ok
17	L5236-10	VX020438.D	29 Dec 2020 16:43	JC/MD	Ok
18	L5236-11	VX020439.D	29 Dec 2020 17:06	JC/MD	Ok
19	L5236-12	VX020440.D	29 Dec 2020 17:30	JC/MD	Ok
20	L5236-13	VX020441.D	29 Dec 2020 17:53	JC/MD	Ok
21	L5236-02	VX020442.D	29 Dec 2020 18:17	JC/MD	Ok
22	L5236-03MS	VX020443.D	29 Dec 2020 18:40	JC/MD	Ok,M
23	L5236-04MSD	VX020444.D	29 Dec 2020 19:04	JC/MD	Ok,M
24	VSTDCCC050	VX020445.D	29 Dec 2020 19:27	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121820

Review By	MMDadoda	Review On	12/21/2020 3:58:55 PM		
Supervise By	SAM	Supervise On	12/21/2020 5:36:54 PM		
SubDirectory	VX121820	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99069,VP99073
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99070,VP99083,VP99084,VP99085
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX020114.D	18 Dec 2020 08:40		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX020115.D	18 Dec 2020 09:53	Need Ical	JC/MD	Not Ok
3	VSTDICC001	VSTDICC001	VX020116.D	18 Dec 2020 10:28		JC/MD	Ok,M
4	VSTDICC005	VSTDICC005	VX020117.D	18 Dec 2020 10:59		JC/MD	Ok,M
5	VSTDICC020	VSTDICC020	VX020118.D	18 Dec 2020 11:22		JC/MD	Ok,M
6	VSTDICCC050	VSTDICCC050	VX020119.D	18 Dec 2020 11:57		JC/MD	Ok,M
7	VSTDICC100	VSTDICC100	VX020120.D	18 Dec 2020 12:20		JC/MD	Ok,M
8	VSTDICC150	VSTDICC150	VX020121.D	18 Dec 2020 12:43		JC/MD	Ok,M
9	IBLK	IBLK	VX020122.D	18 Dec 2020 13:07		JC/MD	Ok
10	VSTDICV050	ICVVX121820	VX020123.D	18 Dec 2020 13:32	pH#Lot#V11255	JC/MD	Ok,M
11	VX1218WBL01	VX1218WBL01	VX020124.D	18 Dec 2020 14:05		JC/MD	Ok
12	L5140-01	GROUNDWATER-SAM	VX020125.D	18 Dec 2020 14:37	vial A pH<2	JC/MD	Ok
13	VX1218WBS01	VX1218WBS01	VX020126.D	18 Dec 2020 15:00		JC/MD	Ok,M
14	VX1218MBL01	VX1218MBL01	VX020127.D	18 Dec 2020 15:23		JC/MD	Ok
15	L5059-01	CALDRUM1-20201209	VX020128.D	18 Dec 2020 16:00	Vial A	JC/MD	Ok
16	L5126-10	CONTAINMENT-DEBR	VX020129.D	18 Dec 2020 16:23		JC/MD	Ok
17	VX1218MBS01	VX1218MBS01	VX020130.D	18 Dec 2020 16:46		JC/MD	Ok,M
18	VX1218MBSD01	VX1218MBSD01	VX020131.D	18 Dec 2020 17:09		JC/MD	Ok,M
19	VX1218WBSD01	VX1218WBSD01	VX020132.D	18 Dec 2020 17:32		JC/MD	Ok,M
20	L5053-05	RE104D1-20201209	VX020133.D	18 Dec 2020 17:55	vial B pH<2	JC/MD	Ok
21	L5053-07	RE104D3-20201209	VX020134.D	18 Dec 2020 18:19	vial B pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

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Review By	MMDadoda	Review On	12/21/2020 3:58:55 PM		
Supervise By	SAM	Supervise On	12/21/2020 5:36:54 PM		
SubDirectory	VX121820	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99069,VP99073
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99070,VP99083,VP99084,VP99085
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

22	L5053-11	RE122D3-20201209	VX020135.D	18 Dec 2020 18:42	vial B pH<2	JC/MD	Ok
23	L5053-13	RE126D3-20201209	VX020136.D	18 Dec 2020 19:05	vial B pH<2	JC/MD	Ok
24	L5053-02	RE103D1-20201209	VX020137.D	18 Dec 2020 19:28	vial A pH<2 Need 10X	JC/MD	Dilution
25	L5053-04	RE103D3-20201209	VX020138.D	18 Dec 2020 19:51	vial A pH<2 Need 10X	JC/MD	Dilution
26	VSTDCCC050	VSTDCCC050EC	VX020139.D	18 Dec 2020 20:15		JC/MD	Ok,M
27	BFB	BFB	VX020140.D	19 Dec 2020 00:09		JC/MD	Ok
28	VSTDCCC050	VSTDCCC050	VX020141.D	19 Dec 2020 00:46		JC/MD	Ok,M
29	VX1218WBL02	VX1218WBL02	VX020142.D	19 Dec 2020 01:25		JC/MD	Ok
30	VX1218WBS02	VX1218WBS02	VX020143.D	19 Dec 2020 02:09	Surrogate Fail	JC/MD	Not Ok
31	VX1218WBS03	VX1218WBS03	VX020144.D	19 Dec 2020 02:46		JC/MD	Ok,M
32	PB133677TB	PB133677TB	VX020145.D	19 Dec 2020 03:32		JC/MD	Ok
33	PB133677ZHE#08	PB133677ZHE#08	VX020146.D	19 Dec 2020 03:55		JC/MD	Ok
34	PB133677ZHE#09	PB133677ZHE#09	VX020147.D	19 Dec 2020 04:18		JC/MD	Ok
35	PB133677ZHE#10	PB133677ZHE#10	VX020148.D	19 Dec 2020 04:41		JC/MD	Ok
36	L5126-03	20071-OILY-DEBRIS-T	VX020149.D	19 Dec 2020 05:05	TCLP VOA Not on Login	JC/MD	Not Ok
37	L5126-11	CONTAINMENT-DEBR	VX020150.D	19 Dec 2020 05:28	TCLP VOA Not on Login	JC/MD	Not Ok
38	L5141-03	WC-12-16-20-RCRA	VX020151.D	19 Dec 2020 05:51	TCLP VOA Not on Login	JC/MD	Not Ok
39	L5053-08DL	RE122D1-20201209DL	VX020152.D	19 Dec 2020 06:14		JC/MD	Ok
40	L5053-14DL	RE125D1-20201210DL	VX020153.D	19 Dec 2020 06:38		JC/MD	Ok
41	L5053-15	DUP0420201210	VX020154.D	19 Dec 2020 07:01		JC/MD	Ok
42	L5053-16DL	RE125D2-20201210DL	VX020155.D	19 Dec 2020 07:24		JC/MD	Ok
43	L5053-17DL	RE125D3-20201210DL	VX020156.D	19 Dec 2020 07:48		JC/MD	Ok

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Review By	MMDadoda	Review On	12/21/2020 3:58:55 PM		
Supervise By	SAM	Supervise On	12/21/2020 5:36:54 PM		
SubDirectory	VX121820	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99069,VP99073
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99070,VP99083,VP99084,VP99085
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

44	L5053-03	RE103D2-20201209	VX020157.D	19 Dec 2020 08:11		JC/MD	Ok
45	L5053-09	DUP03-20201209	VX020158.D	19 Dec 2020 08:34		JC/MD	Ok
46	L5144-01	STORAGE-BLANK-SO	VX020159.D	19 Dec 2020 08:57	vial A pH<2	JC/MD	Ok
47	L5144-02	STORAGE-BLANK-WA	VX020160.D	19 Dec 2020 09:20	vial A pH<2	JC/MD	Ok
48	VX1218WBSD03	VX1218WBSD03	VX020161.D	19 Dec 2020 09:44		JC/MD	Ok,M
49	L5144-04	STORAGE-BLANK-SA	VX020162.D	19 Dec 2020 10:07	vial A pH<2	JC/MD	Ok
50	L5144-03	STORAGE-BLANK-WA	VX020163.D	19 Dec 2020 10:30	vial A pH<2	JC/MD	Ok
51	VSTDCCC050	VSTDCCC050EC	VX020164.D	19 Dec 2020 10:53		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122920

Review By	MMDadoda	Review On	12/30/2020 1:07:24 PM		
Supervise By	SAM	Supervise On	12/30/2020 2:24:30 PM		
SubDirectory	VX122920	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99377
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99378,VP99379
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX020422.D	29 Dec 2020 08:47		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX020423.D	29 Dec 2020 09:57	pH#LOT(V11255)	JC/MD	Ok,M
3	VX1229WBL01	VX1229WBL01	VX020424.D	29 Dec 2020 10:55		JC/MD	Ok
4	VX1229WBS01	VX1229WBS01	VX020425.D	29 Dec 2020 11:28		JC/MD	Ok,M
5	VX1229WBSD01	VX1229WBSD01	VX020426.D	29 Dec 2020 11:59		JC/MD	Ok,M
6	L5236-14	1026-TB122820	VX020427.D	29 Dec 2020 12:25	vial A pH<2,TB	JC/MD	Ok
7	L5236-13	1025-FB122820	VX020428.D	29 Dec 2020 12:48	vial A pH<2,FB, Hit of Comp. #16	JC/MD	ReRun
8	L5236-01DL	1015-MW-01(23)DL	VX020429.D	29 Dec 2020 13:12		JC/MD	Ok
9	L5236-05	1017-MW-03A(17)	VX020430.D	29 Dec 2020 13:35	vial A pH<2,Need 5X	JC/MD	Dilution
10	L5236-05DL	1017-MW-03A(17)DL	VX020431.D	29 Dec 2020 13:59		JC/MD	Ok
11	L5236-07	1019-MW-11(15)	VX020432.D	29 Dec 2020 14:22	vial A pH<2	JC/MD	Ok
12	L5236-07DL	1019-MW-11(15)DL	VX020433.D	29 Dec 2020 14:46	,Not Required	JC/MD	Not Ok
13	L5236-01	1015-MW-01(23)	VX020434.D	29 Dec 2020 15:09	vial B pH<2 ,Need 20X	JC/MD	Dilution
14	L5236-06	1018-MW-05(17)	VX020435.D	29 Dec 2020 15:32	vial A pH<2	JC/MD	Ok
15	L5236-08	1020-MW-15(17)	VX020436.D	29 Dec 2020 15:56	vial A pH<2	JC/MD	Ok
16	L5236-09	1021-MW-16(22.5)	VX020437.D	29 Dec 2020 16:19	vial A pH<2	JC/MD	Ok
17	L5236-10	1022-MW-17A(15.5)	VX020438.D	29 Dec 2020 16:43	vial A pH<2	JC/MD	Ok
18	L5236-11	1023-MW-18(121.5)	VX020439.D	29 Dec 2020 17:06	vial A pH<2	JC/MD	Ok
19	L5236-12	1024-MW-19(28)	VX020440.D	29 Dec 2020 17:30	vial A pH<2	JC/MD	Ok
20	L5236-13	1025-FB122820	VX020441.D	29 Dec 2020 17:53	vial B pH<2,FB,	JC/MD	Ok
21	L5236-02	1016-MW-02(23.8)	VX020442.D	29 Dec 2020 18:17	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

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Review By	MMDadoda	Review On	12/30/2020 1:07:24 PM		
Supervise By	SAM	Supervise On	12/30/2020 2:24:30 PM		
SubDirectory	VX122920	HP Acquire Method	MSVOA_X	HP Processing Method	82X121820W.M

STD. NAME	STD REF.#
Tune/Reschk	VP99377
Initial Calibration Stds	VP99074,VP99075,VP99076,VP99077,VP99078,VP99079
CCC	VP99378,VP99379
Internal Standard/PEM	VP94788
ICV/I.BLK	VP99080

22	L5236-03MS	1016-MW-02(23.8)MS	VX020443.D	29 Dec 2020 18:40	vial A pH<2	JC/MD	Ok,M
23	L5236-04MSD	1016-MW-02(23.8)MSD	VX020444.D	29 Dec 2020 19:04	vial A pH<2	JC/MD	Ok,M
24	VSTDCCC050	VSTDCCC050EC	VX020445.D	29 Dec 2020 19:27		JC/MD	Ok,M

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Prep Standard - Chemical Standard Summary

Order ID : L5236

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: vx122920,

Standard ID :
VP93889,VP94617,VP94618,VP94788,VP95515,VP95518,VP95785,VP95787,VP95796,VP98457,VP98459,VP98461,VP98649,VP98651,VP98785,VP99051,VP99074,VP99075,VP99076,VP99077,VP99078,VP99079,VP99080,VP99149,VP99377,VP99378,VP99379,

Chemical ID :
V10263,V10590,V10597,V10701,V10702,V10706,V10708,V10709,V10775,V10776,V10933,V10940,V10941,V10962,V11003,V11010,V11012,V11037,V11053,V11054,V11142,V11151,V11163,V11164,V11184,V11185,V11201,V11204,V11206,V11219,V11238,V11239,V11246,V11450,V11457,V11460,V11465,V11467,V11527,V11528,V11529,V11530,V11531,V11532,V11533,V11534,V11535,V11536,V8279,V8280,V8725,V8739,V9523,V9524,V9525,V9526,V9705,V9709,W2606,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
262	8260 Working STD (BCM)-Second source, 100PPM	VP93889	06/23/2020	12/23/2020	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/23/2020

FROM 1.000ml of V8725 + 9.000ml of V11012 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP94617	07/20/2020	01/20/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/21/2020

FROM 0.800ml of V8739 + 49.200ml of V11003 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP94618	07/20/2020	01/20/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/21/2020

FROM 0.020ml of V8739 + 24.990ml of V11003 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP94788	07/24/2020	01/24/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/24/2020

FROM 0.500ml of V10263 + 49.500ml of V11010 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP95515	08/26/2020	02/26/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/26/2020

FROM 1.200ml of V10701 + 1.200ml of V10702 + 1.200ml of V10706 + 1.400ml of V10708 + 20.000ml of V11142 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP95518	08/26/2020	02/26/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/26/2020

FROM 0.250ml of V10709 + 24.750ml of V11142 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP95785	09/04/2020	03/04/2021	Semsettin Yesilyurt	None	None	John Carlone 09/04/2020

FROM 1.200ml of V9523 + 1.200ml of V9524 + 1.200ml of V9525 + 1.400ml of V9526 + 46.000ml of V11151 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP95787	09/04/2020	03/04/2021	Semsettin Yesilyurt	None	None	John Carlone 09/04/2020

FROM 0.250ml of V9525 + 24.750ml of V11151 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP95796	09/04/2020	01/22/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/08/2020

FROM 0.800ml of V8280 + 1.200ml of V8279 + 23.000ml of V11151 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP98457	11/27/2020	12/23/2020	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/30/2020

FROM 0.400ml of V11527 + 1.200ml of V11528 + 1.200ml of V11529 + 1.200ml of V11530 + 21.000ml of V11465 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP98459	11/27/2020	12/23/2020	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/30/2020

FROM 17.600ml of V11457 + 2.500ml of VP98457 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP98461	11/27/2020	12/21/2020	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/30/2020

FROM 0.400ml of V11532 + 1.200ml of V11531 + 8.400ml of V11457 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP98649	12/06/2020	01/09/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/07/2020

FROM 0.400ml of V11204 + 0.400ml of V9705 + 0.800ml of V10776 + 0.800ml of V10941 + 0.800ml of V11054 + 0.800ml of V11164 + 0.800ml of V11239 + 1.200ml of V10775 + 1.200ml of V10940 + 1.200ml of V11053 + 1.200ml of V11163 + 1.200ml of V11184 + 1.200ml of V11185 + 1.200ml of V11201 + 1.200ml of V11238 + 10.600ml of V11450 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP98651	12/06/2020	01/09/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/07/2020

FROM 17.500ml of V11450 + 2.500ml of VP98649 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP98785	12/09/2020	01/12/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/10/2020

FROM 0.160ml of V9709 + 0.600ml of V11219 + 0.800ml of V10590 + 0.800ml of V10933 + 0.800ml of V10962 + 0.800ml of V11037 + 0.800ml of V11246 + 1.000ml of V11206 + 4.240ml of V11450 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP99051	12/15/2020	06/15/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/18/2020

FROM 0.250ml of V10597 + 24.750ml of V11467 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
334	1 PPB ICC, 8260-Water	VP99074	12/18/2020	12/19/2020	John Carlone	None	None	Mahesh Dadoda 12/21/2020

FROM 39.982ml of W2606 + 0.002ml of VP94618 + 0.002ml of VP95518 + 0.002ml of VP95787 + 0.002ml of VP98459 + 0.002ml of VP98651 + 0.008ml of VP94788 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
335	5 PPB ICC, 8260-Water	VP99075	12/18/2020	12/19/2020	John Carlone	None	None	Mahesh Dadoda 12/21/2020

FROM 39.942ml of W2606 + 0.008ml of VP94788 + 0.010ml of VP94618 + 0.010ml of VP95518 + 0.010ml of VP95787 + 0.010ml of VP98459 + 0.010ml of VP98651 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
337	20 PPB ICC, 8260-Water	VP99076	12/18/2020	12/19/2020	John Carlone	None	None	Mahesh Dadoda 12/21/2020

FROM 39.970ml of W2606 + 0.002ml of VP94617 + 0.002ml of VP95515 + 0.005ml of VP95785 + 0.005ml of VP98457 + 0.005ml of VP98649 + 0.008ml of VP94788 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
380	50 PPB ICC, 8260-Water	VP99077	12/18/2020	12/19/2020	John Carlone	None	None	Mahesh Dadoda 12/21/2020

FROM 39.945ml of W2606 + 0.005ml of VP94617 + 0.005ml of VP95515 + 0.008ml of VP94788 + 0.013ml of VP95785 + 0.013ml of VP98457 + 0.013ml of VP98649 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
381	100 PPB ICC, 8260-Water	VP99078	12/18/2020	12/19/2020	John Carlone	None	None	Mahesh Dadoda 12/21/2020

FROM 39.897ml of W2606 + 0.008ml of VP94788 + 0.010ml of VP94617 + 0.010ml of VP95515 + 0.025ml of VP95785 + 0.025ml of VP98457 + 0.025ml of VP98649 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
382	150 PPB ICC, 8260-Water	VP99079	12/18/2020	12/19/2020	John Carlone	None	None	Mahesh Dadoda 12/21/2020

FROM 39.850ml of W2606 + 0.008ml of VP94788 + 0.015ml of VP94617 + 0.015ml of VP95515 + 0.038ml of VP95785 + 0.038ml of VP98457 + 0.038ml of VP98649 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
385	50 PPB ICV, 8260-Water	VP99080	12/18/2020	12/19/2020	John Carlone	None	None	Mahesh Dadoda 12/21/2020

FROM 39.930ml of W2606 + 0.005ml of VP94617 + 0.008ml of VP94788 + 0.013ml of VP95796 + 0.013ml of VP98461 + 0.013ml of VP98785 + 0.020ml of VP93889 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP99149	12/21/2020	01/18/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/21/2020

FROM 0.400ml of V11536 + 1.200ml of V11533 + 1.200ml of V11534 + 1.200ml of V11535 + 21.000ml of V11460 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP99377	12/29/2020	12/30/2020	John Carlone	None	None	Mahesh Dadoda 12/29/2020

FROM 39.984ml of W2606 + 0.016ml of VP99051 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP99378	12/29/2020	12/30/2020	John Carlone	None	None	Mahesh Dadoda 12/29/2020

FROM 39.945ml of W2606 + 0.005ml of VP94617 + 0.005ml of VP95515 + 0.008ml of VP94788 + 0.013ml of VP95785 + 0.013ml of VP98649 + 0.013ml of VP99149 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP99379	12/29/2020	12/30/2020	John Carlone	None	None	Mahesh Dadoda 12/29/2020

FROM 39.945ml of W2606 + 0.005ml of VP94617 + 0.005ml of VP95515 + 0.008ml of VP94788 + 0.013ml of VP95785 + 0.013ml of VP98649 + 0.013ml of VP99149 = Final Quantity: 40.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0153385	01/24/2021	07/24/2020 / sam	10/01/2019 / sam	V10263

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0155430	05/08/2021	11/08/2020 / SAM	01/09/2020 / sam	V10590

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0147670	06/15/2021	12/15/2020 / SAM	01/09/2020 / sam	V10597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	02/26/2021	08/26/2020 / sam	03/05/2020 / sam	V10701

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	02/26/2021	08/26/2020 / sam	03/05/2020 / sam	V10702

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	02/26/2021	08/26/2020 / sam	03/05/2020 / sam	V10706

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	02/26/2021	08/26/2020 / sam	03/05/2020 / sam	V10708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	02/26/2021	08/26/2020 / sam	03/05/2020 / sam	V10709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	050219	06/06/2021	12/06/2020 / SAM	03/18/2020 / sam	V10775

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	050219	06/06/2021	12/06/2020 / SAM	03/18/2020 / sam	V10776

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0158115	10/31/2026	12/06/2020 / SAM	04/22/2020 / sam	V10933

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0158115	06/06/2021	12/06/2020 / SAM	04/22/2020 / sam	V10940

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0158115	06/06/2021	12/06/2020 / SAM	04/22/2020 / sam	V10941

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	050119	05/08/2021	11/08/2020 / SAM	06/05/2020 / sam	V10962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000229971	01/20/2021	07/20/2020 / sam	06/11/2020 / sam	V11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000229971	01/24/2021	07/24/2020 / sam	06/11/2020 / sam	V11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000229971	12/23/2020	06/23/2020 / sam	06/11/2020 / sam	V11012

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	010419	01/04/2022	11/08/2020 / SAM	07/16/2020 / sam	V11037

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0158653	09/30/2021	12/06/2020 / SAM	07/16/2020 / sam	V11053

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0158653	03/10/2021	09/10/2020 / pedro	07/16/2020 / sam	V11054

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000230446	02/26/2021	08/26/2020 / sam	08/19/2020 / sam	V11142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000230446	03/04/2021	09/04/2020 / sam	08/19/2020 / sam	V11151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	010719	06/06/2021	12/06/2020 / SAM	08/01/2020 / sam	V11163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	010719	06/06/2021	12/06/2020 / SAM	08/01/2020 / sam	V11164

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0154174	06/06/2021	12/06/2020 / SAM	08/21/2020 / sam	V11184

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0154174	06/06/2021	12/06/2020 / SAM	08/21/2020 / sam	V11185

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0154174	06/06/2021	12/06/2020 / SAM	08/21/2020 / sam	V11201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0154174	06/06/2021	12/06/2020 / SAM	08/21/2020 / sam	V11204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0159420	06/09/2021	12/09/2020 / SAM	08/21/2020 / sam	V11206

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0159420	06/09/2021	12/09/2020 / SAM	08/21/2020 / sam	V11219

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0164211	06/06/2021	12/06/2020 / SAM	09/14/2020 / sam	V11238

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0164211	03/31/2022	12/06/2020 / SAM	09/14/2020 / sam	V11239

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0164091	05/08/2021	11/08/2020 / SAM	09/14/2020 / sam	V11246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000230446	06/02/2021	12/02/2020 / SAM	10/29/2020 / sam	V11450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000230446	05/23/2021	11/23/2020 / pedro	10/29/2020 / sam	V11457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000230446	06/19/2021	12/19/2020 / SAM	10/29/2020 / sam	V11460

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000258810	05/23/2021	11/23/2020 / SAM	10/29/2020 / sam	V11465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000258810	06/15/2021	12/15/2020 / SAM	10/29/2020 / sam	V11467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	112320	12/23/2020	11/26/2020 / SAM	11/24/2020 / SAM	V11527

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	112320	12/23/2020	11/26/2020 / SAM	11/24/2020 / SAM	V11528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	112320	12/23/2020	11/26/2020 / SAM	11/24/2020 / SAM	V11529

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	112320	12/23/2020	11/26/2020 / SAM	11/24/2020 / SAM	V11530

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	112120	12/21/2020	11/26/2020 / SAM	11/24/2020 / SAM	V11531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	112120	12/21/2020	11/26/2020 / SAM	11/24/2020 / SAM	V11532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	121820	01/18/2021	12/21/2020 / SAM	12/21/2020 / SAM	V11533

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	121820	01/18/2021	12/21/2020 / SAM	12/21/2020 / SAM	V11534

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	121820	01/18/2021	12/21/2020 / SAM	12/21/2020 / SAM	V11535

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	121820	01/18/2021	12/21/2020 / SAM	12/21/2020 / SAM	V11536

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	012218	01/22/2021	09/04/2020 / sam	01/23/2018 / sam	V8279

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	012218	01/22/2021	09/04/2020 / sam	01/23/2018 / sam	V8280

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	072918	12/23/2020	06/23/2020 / sam	07/27/2018 / sam	V8725

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0140077	01/20/2021	07/20/2020 / sam	07/31/2018 / sam	V8739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	031419	03/04/2021	09/04/2020 / sam	03/15/2019 / sam	V9523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	031419	03/04/2021	09/04/2020 / sam	03/15/2019 / sam	V9524

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	031419	03/04/2021	09/04/2020 / sam	03/15/2019 / sam	V9525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	031419	03/04/2021	09/04/2020 / sam	03/15/2019 / sam	V9526

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0146062	04/01/2021	10/01/2020 / sam	05/03/2019 / sam	V9705

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0141192	04/01/2021	10/01/2020 / sam	05/03/2019 / sam	V9709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Analytical Reference Material ARM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 012218
Description: 2-Chloroethyl vinyl ether

Solvent(s): **Lot#**
Methanol DS435

Expiration Date: 012221
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 2506734D

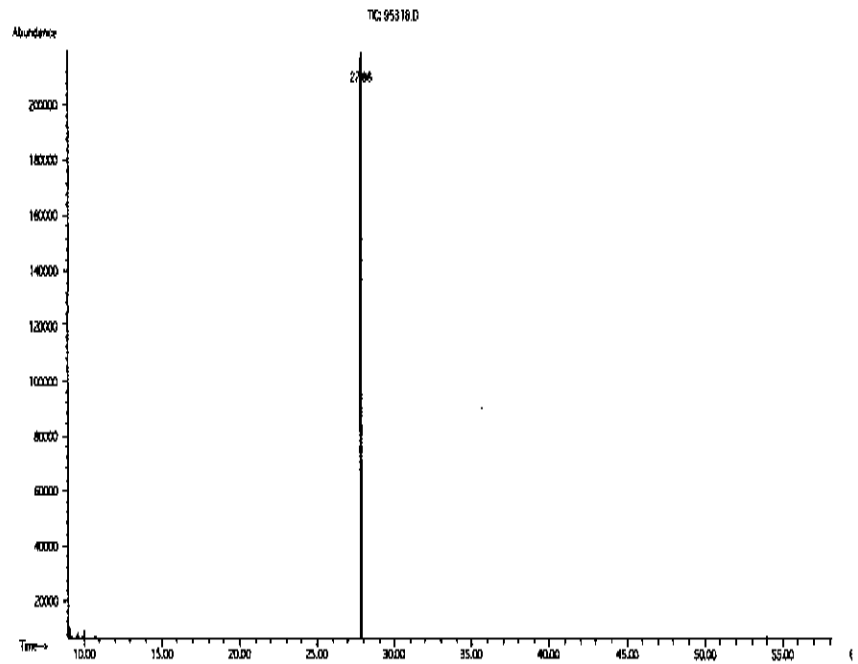
Weight(s) shown below were combined and diluted to (mL): 25.0 | 5E-05 Balance Uncertainty | 0.002 Flask Uncertainty

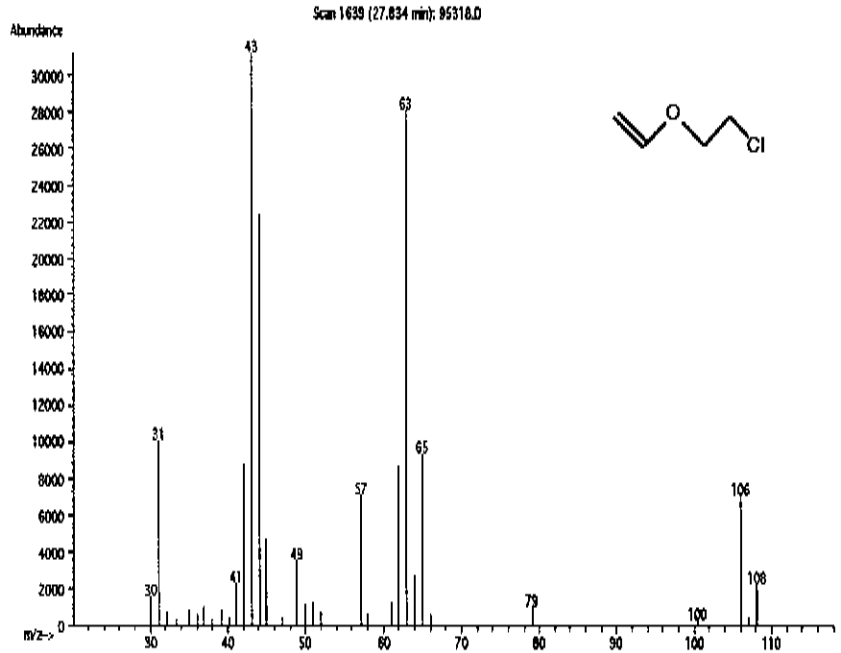
Formulated By: Mario Luis 012218 DATE

Reviewed By: Pedro L. Rentas 012218 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	03206CI	10000	99	0.2	0.25256	0.02528	1000.9	5.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000230446
Manufactured Date: 2019/04/11
Expiration Date: 2022/04/10
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.3000
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Photoionization Detection (PID) Below CRQL	Passes Test	PT
Electroconductivity Detection (ELCD) Below CRQL	Passes Test	PT

For Laboratory, Research or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0158115

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2026 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,003.0 µg/mL	+/- 13.5699 µg/mL +/- 112.5204 µg/mL +/- 115.1432 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,002.2 µg/mL	+/- 13.7609 µg/mL +/- 112.5010 µg/mL +/- 115.1223 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,000.7 µg/mL	+/- 14.3428 µg/mL +/- 112.4884 µg/mL +/- 115.1060 µg/mL	Gravimetric Unstressed Stressed
4	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,000.2 µg/mL	+/- 13.8233 µg/mL +/- 112.3951 µg/mL +/- 115.0136 µg/mL	Gravimetric Unstressed Stressed
5	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,001.0 µg/mL	+/- 13.1358 µg/mL +/- 112.3597 µg/mL +/- 114.9812 µg/mL	Gravimetric Unstressed Stressed
6	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 (Lot MKCJ8658) **Purity** 99%	2,001.8 µg/mL	+/- 13.8031 µg/mL +/- 112.4818 µg/mL +/- 115.1024 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

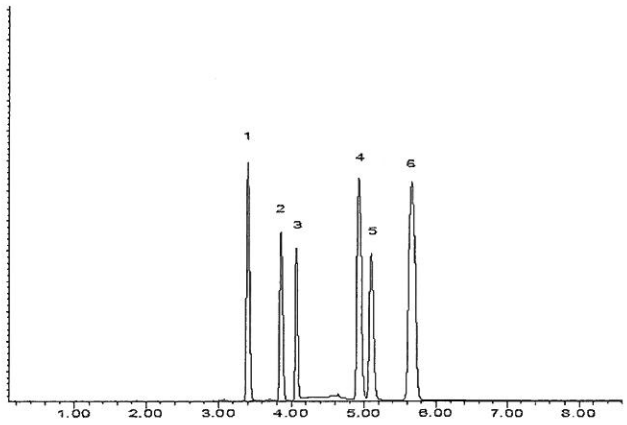
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 24-Feb-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 27-Feb-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 010419
Description: Universal VOA Megamix
69 components
Expiration Date: 010422
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 2684186

Solvent(s): Methanol Lot# DT140Q6

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Formulated By: Eli Aliaga, 010419 DATE
Reviewed By: Pedro L. Rentas 010419 DATE

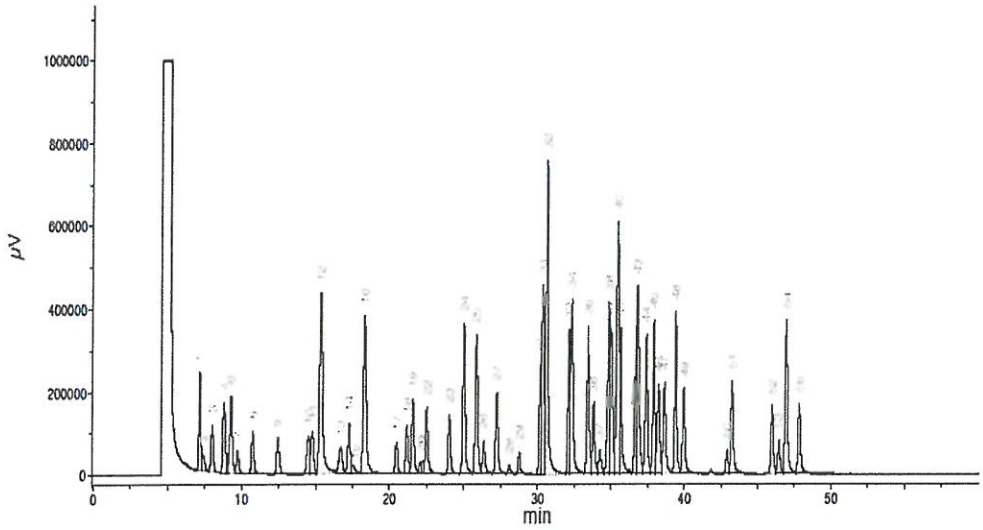
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20040	2001.8	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20210	2000.6	8.1	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKBZ6689V	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21060	2000.5	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20728	0.20745	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	209453	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20210	2000.6	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20140	2003.7	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20110	2000.7	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20120	2009.8	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	03021BX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20225	2002.1	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21060	2000.5	8.5	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20410	0.20425	2001.4	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	051118	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	1999.9	15.8	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	051118	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.9	15.8	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	122818	0.10	10.00	20005.5	2000	NA	NA	0.042	NA	NA	2000.3	18.7	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	1999.9	18.7	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.0	18.7	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	1999.9	18.7	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.0	18.7	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.0	18.7	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	052418	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	052418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	052418	0.05	5.00	39639.5	2000	NA	NA	0.017	NA	NA	1981.8	24.2	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	052418	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	16.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	052418	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.8	15.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	15.9	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	052418	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.8	15.8	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	104-51-8	N/A	N/A
48. Ethyl benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	060418	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	060418	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	060418	0.05	5.00	40000.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	108-67-8	N/A	N/A
57. m-Xylene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	051118	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.9	15.8	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	051118	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.8	15.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	051118	0.05	5.00	40002.3	2000	NA	NA	0.017	NA	NA	1999.9	15.8	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.9	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.9	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	051118	0.05	5.00	40001.1	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 26, "P95317 L010419 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Wed, Jan 9, 2019 at 1:40:49 PM.
Sampled: Sequence "010819-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Analyte	FID RT (min.)
1	Ether	7.15
2	1,1,2-Trichloro-1,2,2-trifluoroethane	7.37
3	1,1-Dichloroethene	7.86
4	Acetonitrile	8.80
5	Iodomethane	9.01
6	Allyl chloride	9.27
7	**Carbon disulfide/Methylene chloride**	9.73
8	trans-1,2-Dichloroethene	10.73
9	1,1-Dichloroethane	12.44
10	2,2-Dichloropropane	14.49
11	cis-1,2-Dichloroethene	14.76
12	**Methacrylonitrile/Methyl acrylate/Chloroform**	15.33
13	**Isobutanol/1,1,1-Trichloroethane**	16.69
14	1,1-Dichloropropene	17.26
15	Carbon tetrachloride	17.72
16	**Benzene/1,2-Dichloroethane**	18.29
17	Trichloroethene	20.45
18	1,2-Dichloropropane	21.17
19	Methyl methacrylate	21.56
20	Bromodichloromethane	22.25
21	Dibromomethane	22.83
22	2-Nitropropane	22.98
23	cis-1,3-Dichloropropene	24.09
24	Toluene	24.97
25	**Ethyl methacrylate/trans-1,3-Dichloropropene**	27.82
26	1,1,2-Trichloroethane	28.33
27	**Tetrachloroethene/1,3-Dichloropropane**	27.70
28	Dibromochloromethane	30.06
29	1,2-Dibromoethane	28.72
30	Chlorobenzene	30.14
31	**Ethylbenzene/1,1,1,2-Tetrachloroethane**	30.32
32	**m-Xylene/p-Xylene**	30.59
33	o-Xylene	32.12
34	Styrene	32.30
35	**Isopropylbenzene/Bromoform**	33.39
36	cis-1,4-Dichloro-2-butene	33.89
37	1,1,2,2-Tetrachloroethane	34.21
38	**1,2,3-Trichloropropane/n-Propylbenzene**	34.82
39	**trans-1,4-Dichloro-2-butene/Bromobenzene**	34.99
40	**1,3,5-Trimethylbenzene/2-Chlorotoluene**	35.42
41	4-Chlorotoluene	35.61
42	tert-Butylbenzene	36.54
43	**1,2,4-Trimethylbenzene/Pentachloroethane**	36.78
44	sec-Butylbenzene	37.38
45	p-Isopropyltoluene	37.91
46	1,3-Dichlorobenzene	38.13
47	1,4-Dichlorobenzene	38.64
48	n-Butylbenzene	39.38
49	1,2-Dichlorobenzene	39.86
50	1,2-Dibromo-3-chloropropane	42.89
51	Nitrobenzene	43.23
52	1,2,4-Trichlorobenzene	45.95
53	Hexachlorobutadiene	46.41
54	Naphthalene	46.90
55	1,2,3-Trichlorobenzene	47.79

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** May 1, 2019

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 112120
Description: Acrolein

Expiration Date: 122120
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 23060

Weight(s) shown below were combined and diluted to (mL): 10.0

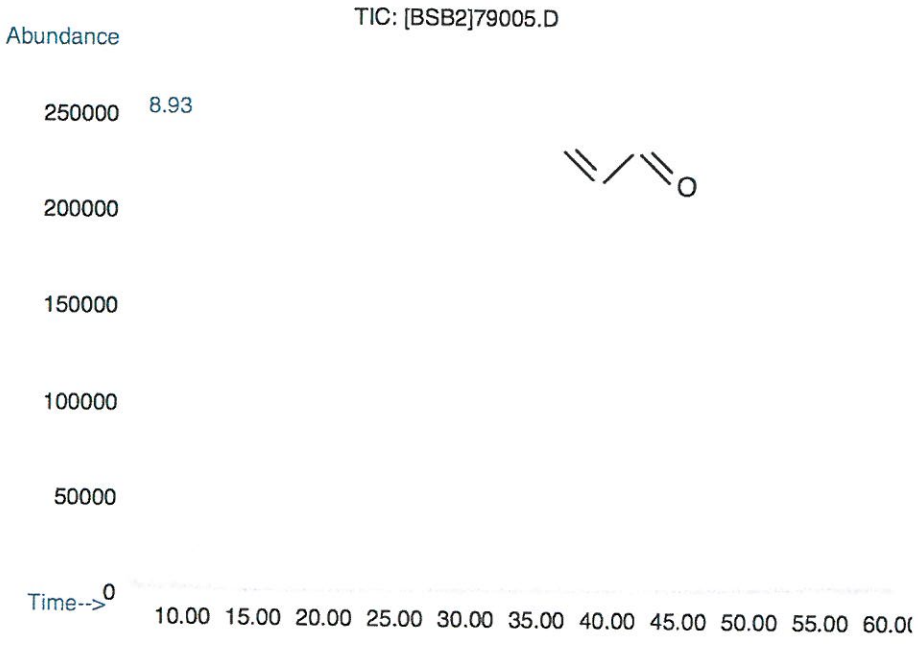
Solvent(s):	Lot#
Water	33120Q

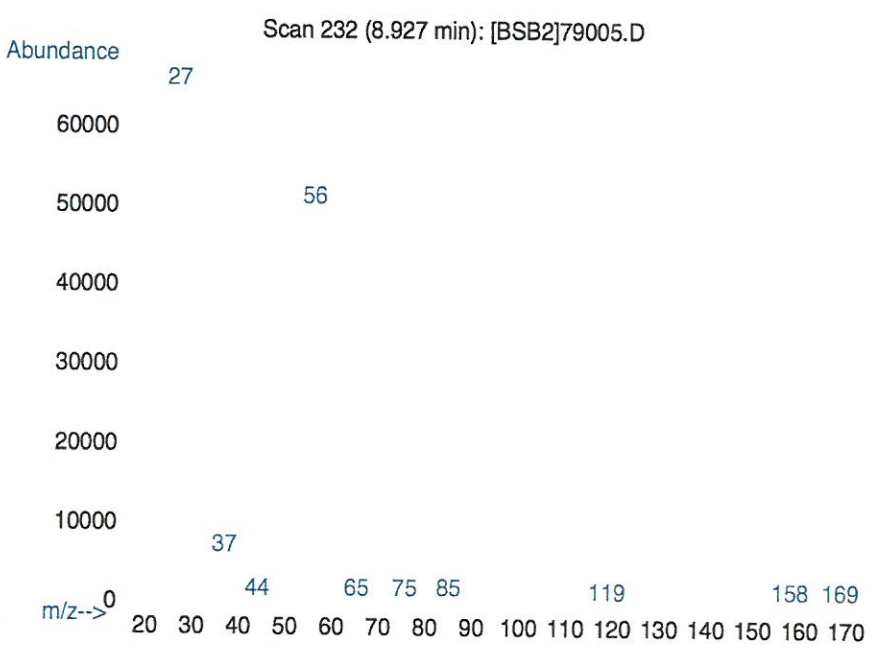
5E-05 Balance Uncertainty
0.007 Flask Uncertainty

		112120
Formulated By:	Justin Dippold	DATE
		112120
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	04715LL	5000	97	0.2	0.05157	0.05190	5032.3	23.9	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000230446
Manufactured Date: 2019/04/11
Expiration Date: 2022/04/10
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.3000
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Photoionization Detection (PID) Below CRQL	Passes Test	PT
Electroconductivity Detection (ELCD) Below CRQL	Passes Test	PT

For Laboratory, Research or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000258810
Manufactured Date: 2020/04/01
Expiration Date: 2023/04/01
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.5000
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms / Fails	Conforms

For Laboratory, Research or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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Certified Reference Material CRM

2 V

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 121820
Description: Acrolein

Solvent(s): Water **Lot#** 120720Q

Expiration Date: 011821
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 23060

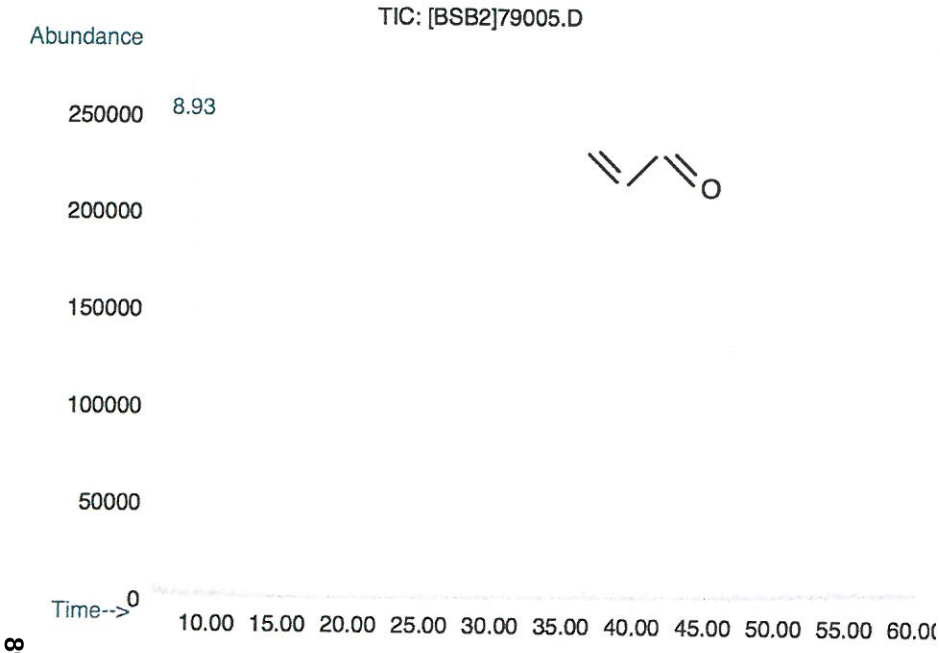
5E-05 Balance Uncertainty
0.002 Flask Uncertainty

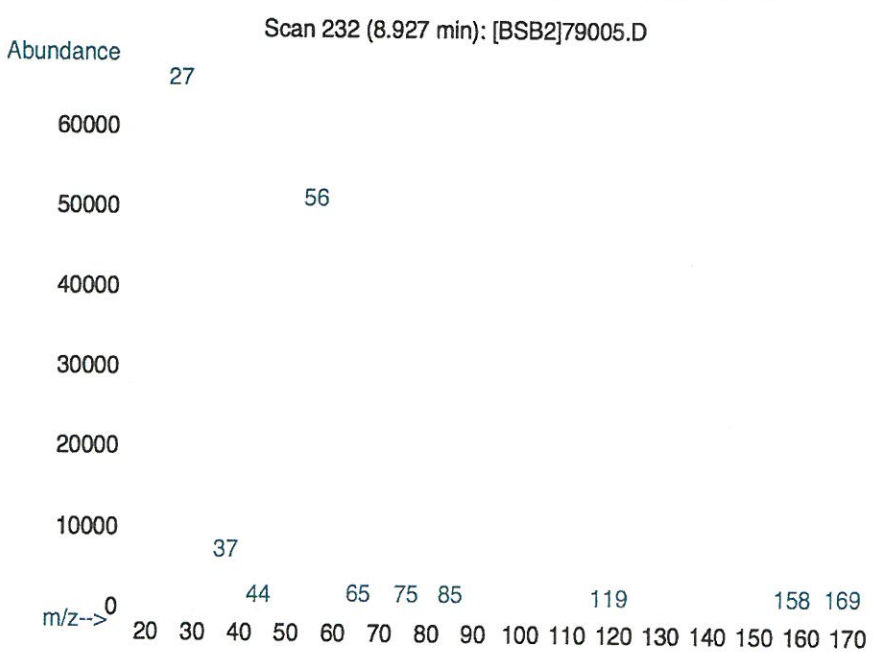
Weight(s) shown below were combined and diluted to (mL): 20.0

Formulated By:	Prashant Chauhan	121820 DATE
Reviewed By:	Pedro L. Rentas	121820 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	07813BN	5000	97	0.2	0.10302	0.10320	5008.9	21.2	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certificate of Composition

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0164091

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	8,080.0 µg/mL	+/- 47.4180	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot 192709KJ)		+/- 487.5448	µg/mL	Unstressed
	Purity 99%		+/- 488.7021	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution , and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

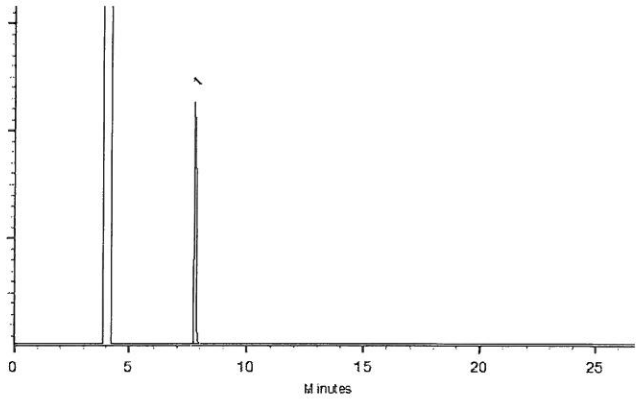
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 01-Sep-2020 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 10-Sep-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0164211

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	8,010.0 µg/mL	+/- 47.0072	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot 192709KJ)		+/- 483.3210	µg/mL	Unstressed
	Purity 99%		+/- 484.4683	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution , and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

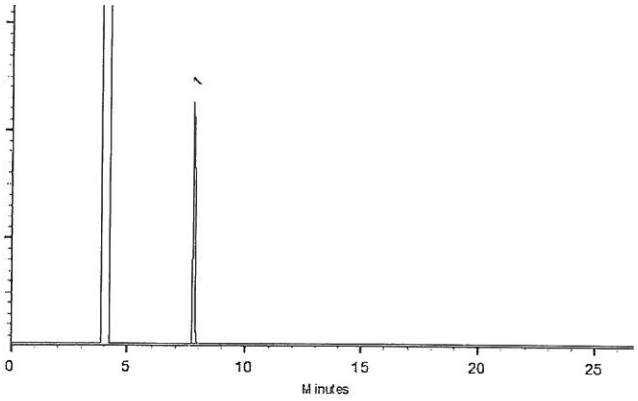
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 08-Sep-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 10-Sep-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Methanol
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For Purge and Trap Analysis

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Material No.: 9077-02
Batch No.: 0000229971
Manufactured Date: 2019/04/11
Expiration Date: 2022/04/10
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.3000
Titrable Acid (µeq/g)	<= 0.3	0.3
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	0.01
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms / Fails	Conforms

For Laboratory, Research or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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CERTIFIED WEIGHT REPORT

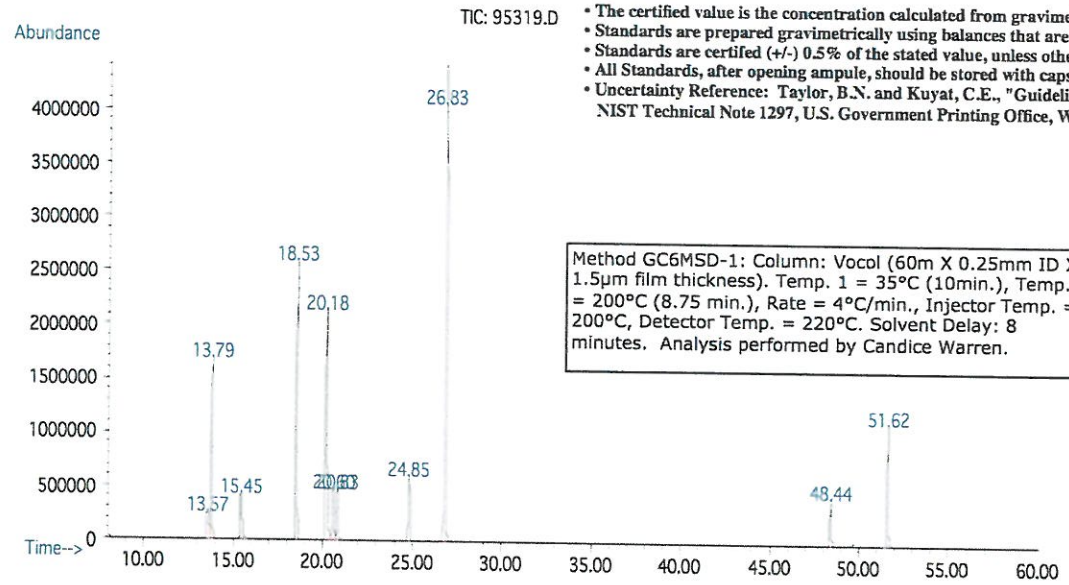
Part Number: 95319
Lot Number: 050119
Description: Revised Additions Mix
11 components
Expiration Date: 050122
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** DU230-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Formulated By: Justin Dippold	050119 DATE
Reviewed By: Pedro L. Rentas	050119 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01021	1.01045	10002.4	40.4	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	15538EZ	2000	99.5	0.2	0.20103	0.20124	2002.1	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	SHBD2795V	2000	99.5	0.2	0.20103	0.20118	2001.5	8.1	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20204	0.20222	2001.8	8.1	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04085	4.04123	40003.8	161.6	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20204	0.20223	2001.9	8.1	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20204	0.20219	2001.5	8.1	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20042	0.20059	2001.7	8.1	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02042	2.02067	20002.4	80.8	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	113886	10000	99.9	0.2	1.00111	1.00139	10002.8	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 2500mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21508	0.21530	2002.1	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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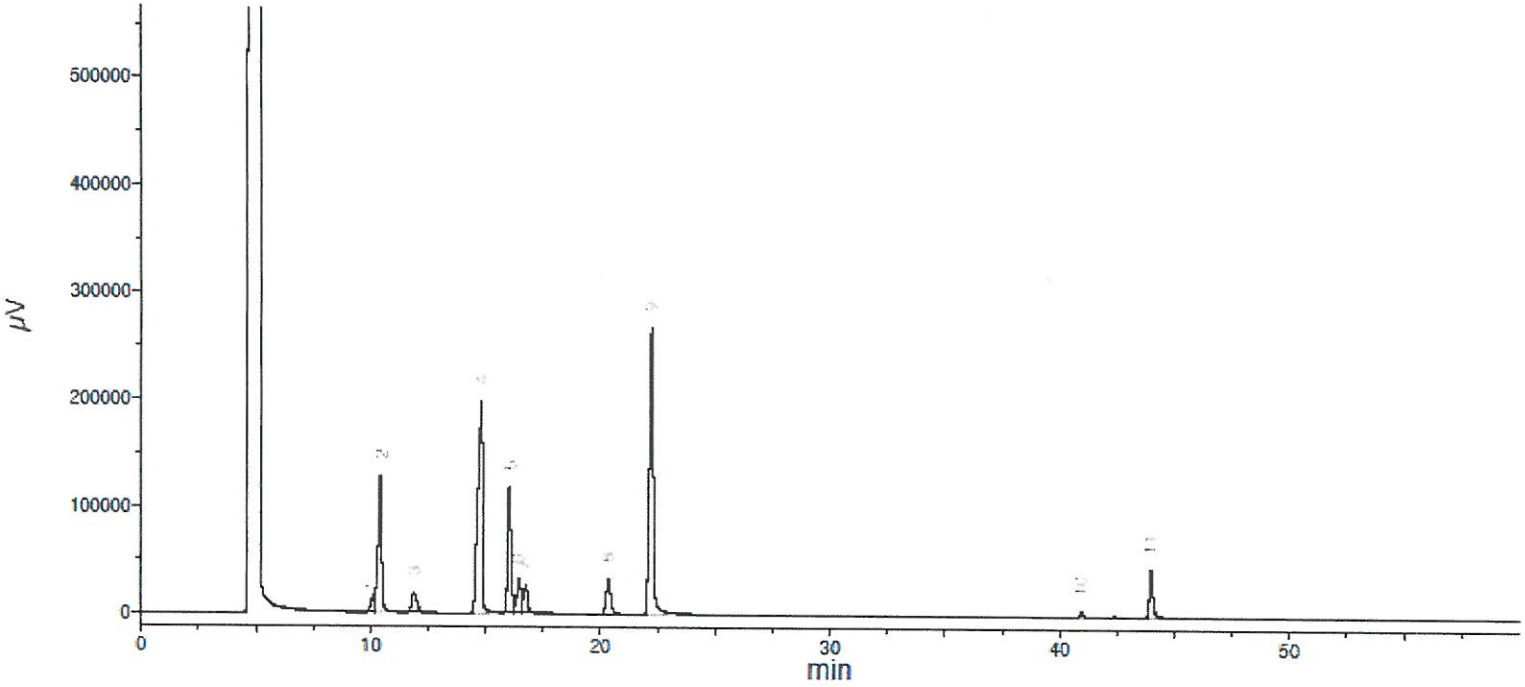
Run 5, "P95319 L050119 [Varied in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Fri, May 3, 2019 at 10:19:18 PM.
Sampled: Sequence "050319-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments

GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=6

Name	FID RT (min.)
Methyl tert-butyl ether (MTBE)	9.97
Acrylonitrile	10.40
Di-isopropyl ether	11.87
Propionitrile	14.80
Tetrahydrofuran	16.02
Cyclohexane	16.45
1-Chlorobutane	16.73
Methylcyclohexane	20.34
1,4-Dioxane	22.22
Hexachloroethane	40.96
1,2,3,4-Tetramethylbenzene	43.97



Part # **95319** Lot # **050119**

Printed: 6/4/2020, 10:39:58 AM

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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

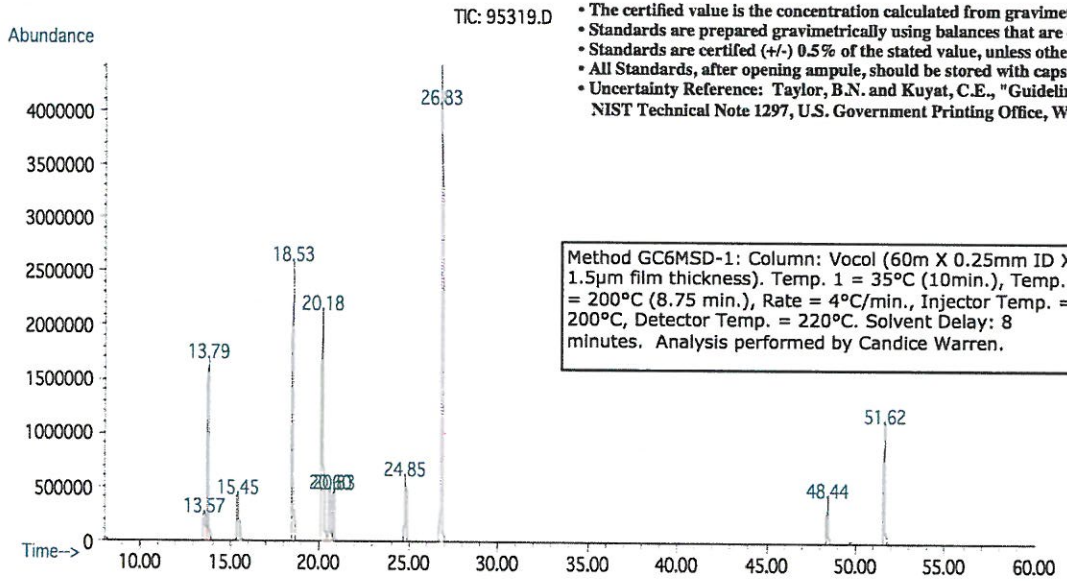
Part Number: 95319
Lot Number: 050219
Description: Revised Additions Mix
11 components
Expiration Date: 050222
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** DU230-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Prashant Chauhan		050219
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		050219
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01021	1.01061	10003.9	40.4	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	15538EZ	2000	99.5	0.2	0.20103	0.20120	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	SHBD2795V	2000	99.5	0.2	0.20103	0.20120	2001.7	8.1	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20204	0.20224	2002.0	8.1	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04085	4.04110	40002.5	161.6	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20204	0.20220	2001.6	8.1	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20204	0.20224	2002.0	8.1	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20042	0.20062	2002.0	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02042	2.02082	20003.9	80.8	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	113886	10000	99.9	0.2	1.00111	1.00151	10004.0	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 2500mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21508	0.21540	2003.0	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

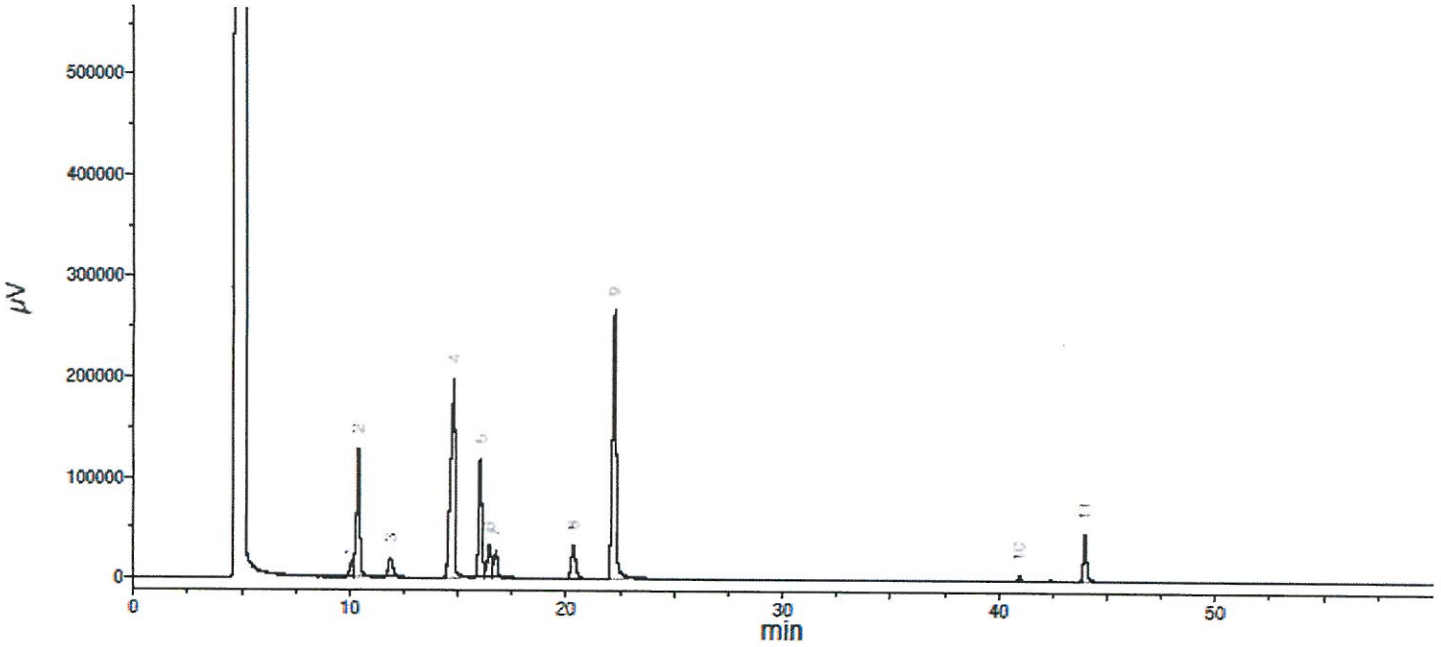
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Run 4, "P95319 L050219 [Varied in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Fri, May 3, 2019 at 9:08:02 PM.
Sampled: Sequence "050319-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=6

Name	FID RT (min.)
Methyl tert-butyl ether (MTBE)	9.97
Acrylonitrile	10.40
Di-isopropyl ether	11.87
Propionitrile	14.80
Tetrahydrofuran	16.02
Cyclohexane	16.45
1-Chlorobutane	16.73
Methylcyclohexane	20.34
1,4-Dioxane	22.22
Hexachloroethane	40.96
1,2,3,4-Tetramethylbenzene	43.97



Part # **95319** Lot # **050219**

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0147670

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,511.0 µg/mL	+/- 14.7360	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 140.8035	µg/mL	Unstressed
	Purity 99%		+/- 144.0975	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

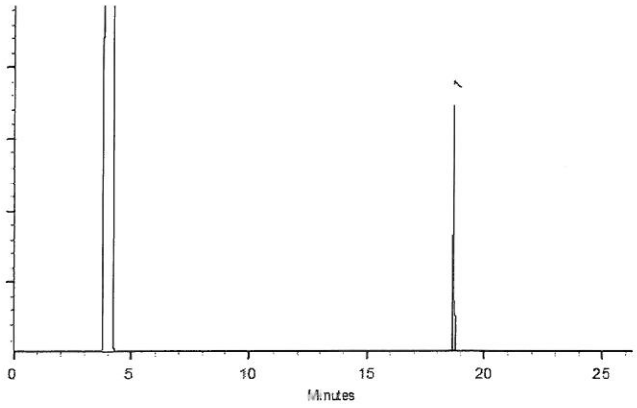
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 01-Apr-2019 **Balance:** 1127510105

Justine Albertson

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0153385

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Component #	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	(Lot PR-18488)	25,060.0 µg/mL	+/- 231.9100 +/- 1,416.6261 +/- 1,449.2417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,4-Difluorobenzene **CAS #** 540-36-3 **Purity** 99%	(Lot MKBN8571V)	25,092.0 µg/mL	+/- 232.2061 +/- 1,418.4350 +/- 1,451.0923	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99%	(Lot PR-29571/02028CZ1)	25,056.0 µg/mL	+/- 231.8729 +/- 1,416.4000 +/- 1,449.0104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Pentafluorobenzene **CAS #** 363-72-4 **Purity** 99%	(Lot MKCH1850)	25,072.0 µg/mL	+/- 232.0210 +/- 1,417.3044 +/- 1,449.9357	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Joseph Jaglowski - Mix Technician

Date Mixed: 27-Sep-2019 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 12/15/16
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**555581 / Custom 8260 Internal Standard Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	7
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed or in contact with skin. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see section 4. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	90.000000
1,4-difluorobenzene	540-36-3	208-742-9	2.500000
pentafluorobenzene	363-72-4	206-658-7	2.500000
1,4-dichlorobenzene-d4	3855-82-1		2.500000
chlorobenzene-d5	3114-55-4	221-482-0	2.500000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1,4-difluorobenzene	540-36-3	ND		No TLV	No data available.
pentafluorobenzene	363-72-4	ND		No TLV	No data available.
1,4-dichlorobenzene-d4	3855-82-1	ND		No TLV	No data available.
chlorobenzene-d5	3114-55-4	ND		No TLV	No data available.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available.
Odor:	Mild
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	1.1 (air = 1)
Boiling Point:	No data available.
Melting Point:	-98 °C
Flash Point:	36
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature:	464 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available.
Odor Threshold:	No data available.
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data.

Reproductive and Developmental Toxicity: Contains a known human reproductive and/or developmental hazard.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage

Ingestion: Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h
Benzene, 1,2,3,4,5-pentafluoro-	363-72-4	Oral LD50 Rat 2 g/kg

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available.	

ACGIH:

Chemical Name	CAS No.
No data available.	

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1

No data. Group 2A
No data. Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	X
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	-
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date:	03/03/16
Other Information:	Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References:	No data available.
Disclaimer:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

RESTEK®
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0155430

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		2,012.7 µg/mL	+/- 11.8115 µg/mL		Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)		+/- 121.4437 µg/mL		Unstressed
	Purity 99%			+/- 121.7320 µg/mL		Stressed
2	Vinyl acetate		2,020.0 µg/mL	+/- 11.8545 µg/mL		Gravimetric
	CAS # 108-05-4	(Lot 192709KJ)		+/- 121.8862 µg/mL		Unstressed
	Purity 99%			+/- 122.1755 µg/mL		Stressed
3	Ethyl acetate		2,018.7 µg/mL	+/- 11.8467 µg/mL		Gravimetric
	CAS # 141-78-6	(Lot SHBK2184)		+/- 121.8058 µg/mL		Unstressed
	Purity 99%			+/- 122.0949 µg/mL		Stressed
4	Isopropyl acetate		2,012.7 µg/mL	+/- 11.8115 µg/mL		Gravimetric
	CAS # 108-21-4	(Lot BCBT9845)		+/- 121.4437 µg/mL		Unstressed
	Purity 99%			+/- 121.7320 µg/mL		Stressed
5	Propyl acetate		2,018.7 µg/mL	+/- 11.8467 µg/mL		Gravimetric
	CAS # 109-60-4	(Lot MUZQD)		+/- 121.8058 µg/mL		Unstressed
	Purity 99%			+/- 122.0949 µg/mL		Stressed
6	Butyl acetate		2,020.0 µg/mL	+/- 11.8545 µg/mL		Gravimetric
	CAS # 123-86-4	(Lot SHBK5137)		+/- 121.8862 µg/mL		Unstressed
	Purity 99%			+/- 122.1755 µg/mL		Stressed
7	Amyl acetate		2,017.3 µg/mL	+/- 11.8388 µg/mL		Gravimetric
	CAS # 628-63-7	(Lot 41325/1)		+/- 121.7253 µg/mL		Unstressed
	Purity 99%			+/- 122.0142 µg/mL		Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

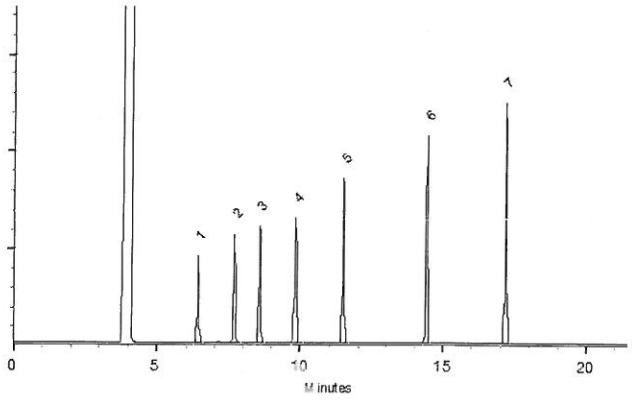
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 02-Dec-2019 **Balance:** B707717271

Justine Albertson - Operations Team-ARM QC

Date Passed: 04-Dec-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

Safety Data Sheet

Revision Date: 05/14/19
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30489 / 8260B Acetates Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	14
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Carcinogenicity Category 2 Acute Toxicity - Inhalation Dust / Mist Category 3 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Suspected of causing cancer. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Specific treatment see section 4. Rinse mouth.

Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	98.6
pentyl acetate (n-amyl acetate)	628-63-7	211-047-3	0.2
Isopropyl acetate	108-21-4	203-561-1	0.2
n-Butyl acetate	123-86-4	204-658-1	0.2
Vinyl acetate	108-05-4	203-545-4	0.2
n-Propyl acetate	109-60-4	203-686-1	0.2
Methyl acetate	79-20-9	201-185-2	0.2
Ethyl acetate	141-78-6	205-500-4	0.2

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment Wash thoroughly after handling Avoid contact with material. Remove contaminated clothing and wash before reuse "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition Keep away from heat, sparks, and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
Vinyl acetate	108-05-4	Not established	15 ppm STEL; 53 mg/m3 STEL	10 ppm TWA; 35 mg/m3 TWA	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	72.8 °C (HSDB) 64.7 °C at 760 mmHg (HSDB)

Melting Point (°C):	-98 °C
Flash Point (°F):	18
Flammability:	Highly Flammable Extremely Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	0
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.8
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.Contamination
Materials to Avoid / Chemical Incompatiability:	Acids Oxidizing materials Peroxides Strong alkalies
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Vinyl acetate Acetic acid, vinyl ester	108-05-4	Inhalation LC50 Rat : 11400 mg/m3/4H; Inhalation LC50 Mouse : 1550 ppm/4H; Oral LD50 Rat : 2920 mg/kg; Oral LD50 Mouse : 1613 mg/kg; Dermal LD50 Rabbit : 2335 mg/kg

Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	Present

ACGIH:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.
Monograph 63; 1995	108-05-4	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
Vinyl acetate	108-05-4	X	X	X	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
pentyl acetate (n-amyl acetate)	628-63-7	X	X	X	X
Isopropyl acetate	108-21-4	X	X	X	X
n-Butyl acetate	123-86-4	X	X	X	X
Vinyl acetate	108-05-4	X	X	X	X
n-Propyl acetate	109-60-4	X	X	X	X
Methyl acetate	79-20-9	X	X	X	X
Ethyl acetate	141-78-6	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 01/17/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0155519

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Bromochloromethane **CAS #** 74-97-5 (Lot 00008541) **Purity** 98%	2,012.9 µg/mL	+/- 11.9561 µg/mL +/- 112.8889 µg/mL +/- 115.5292 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

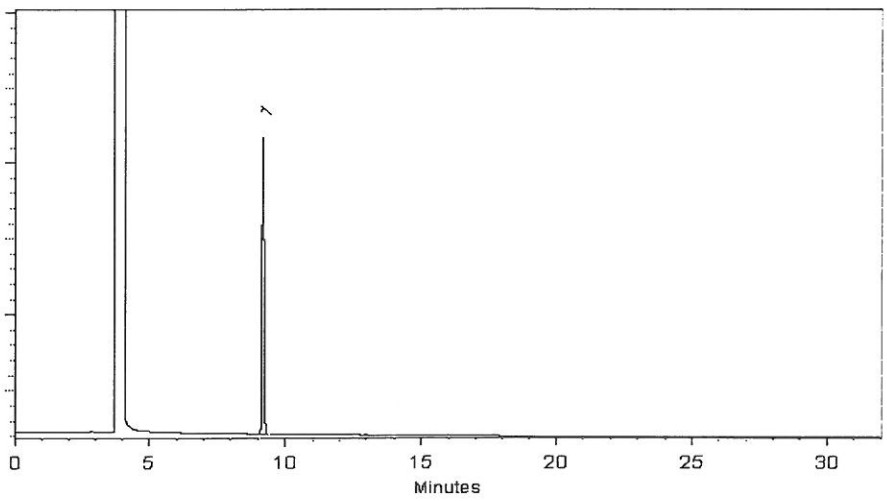
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 04-Dec-2019 **Balance:** 1128342314

Tyler Brown - Operations Tech-ARM QC

Date Passed: 05-Dec-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 08/22/19
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30225 / Bromochloromethane Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	13
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Hazardous for the ozone layer
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Causes damage to organs.
Harms public health and the environment by destroying ozone in the upper atmosphere.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS. Refer to manufacturer/supplier for information on recovery/recycling.
Single Exposure Target Organs:	Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)
Repeated Exposure Target Organs:	No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.8
bromochloromethane	74-97-5	200-826-3	0.2

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.8
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3(6.1)
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
bromochloromethane	74-97-5	X	X	X	X

16. OTHER INFORMATION

Prior Version Date:	11/08/18
Other Information:	Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References:	No data available
Disclaimer:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

RESTEK®
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0158653

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	(Lot SHBK5436)	2,012.7 µg/mL	+/- 11.8115 µg/mL +/- 121.4437 µg/mL +/- 121.7320 µg/mL		Gravimetric Unstressed Stressed
2	Vinyl acetate **CAS #** 108-05-4 **Purity** 99%	(Lot 192709KJ)	2,001.3 µg/mL	+/- 11.7449 µg/mL +/- 120.7599 µg/mL +/- 121.0465 µg/mL		Gravimetric Unstressed Stressed
3	Ethyl acetate **CAS #** 141-78-6 **Purity** 99%	(Lot SHBL1336)	2,013.3 µg/mL	+/- 11.8154 µg/mL +/- 121.4839 µg/mL +/- 121.7723 µg/mL		Gravimetric Unstressed Stressed
4	Isopropyl acetate **CAS #** 108-21-4 **Purity** 99%	(Lot BCBT9845)	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 121.5644 µg/mL +/- 121.8530 µg/mL		Gravimetric Unstressed Stressed
5	Propyl acetate **CAS #** 109-60-4 **Purity** 99%	(Lot FGL01)	2,016.0 µg/mL	+/- 11.8310 µg/mL +/- 121.6448 µg/mL +/- 121.9336 µg/mL		Gravimetric Unstressed Stressed
6	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBL4448)	2,007.3 µg/mL	+/- 11.7802 µg/mL +/- 121.1219 µg/mL +/- 121.4094 µg/mL		Gravimetric Unstressed Stressed
7	Amyl acetate **CAS #** 628-63-7 **Purity** 99%	(Lot 41325/1)	2,018.0 µg/mL	+/- 11.8428 µg/mL +/- 121.7655 µg/mL +/- 122.0546 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

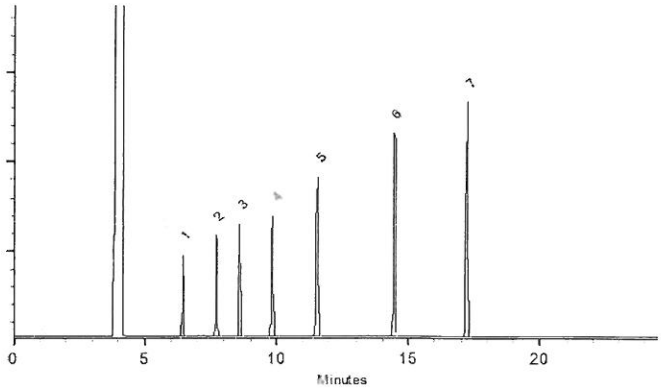
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 10-Mar-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 11-Mar-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Analytical Reference Material ARM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 031419
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** DU230-US

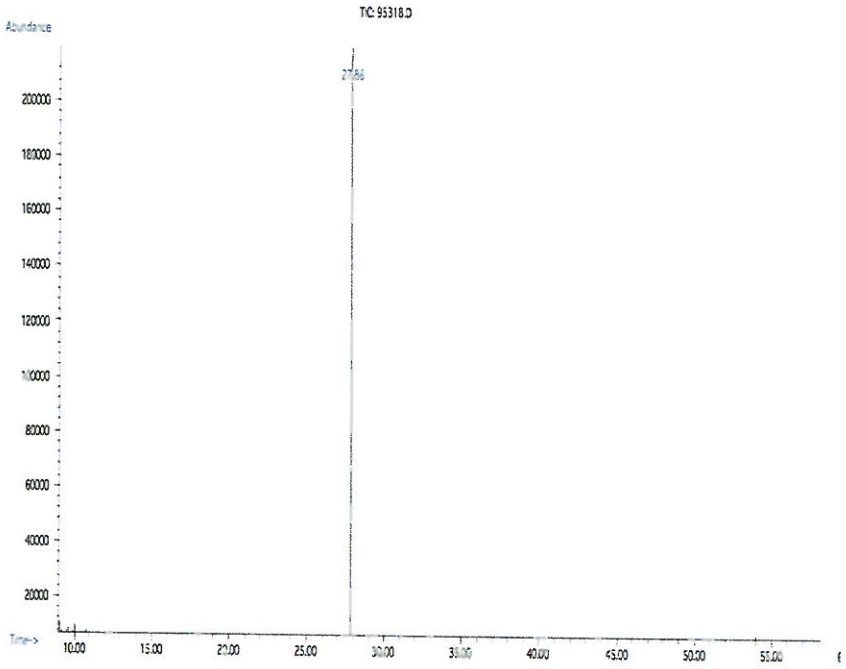
Expiration Date: 031422
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 2684186

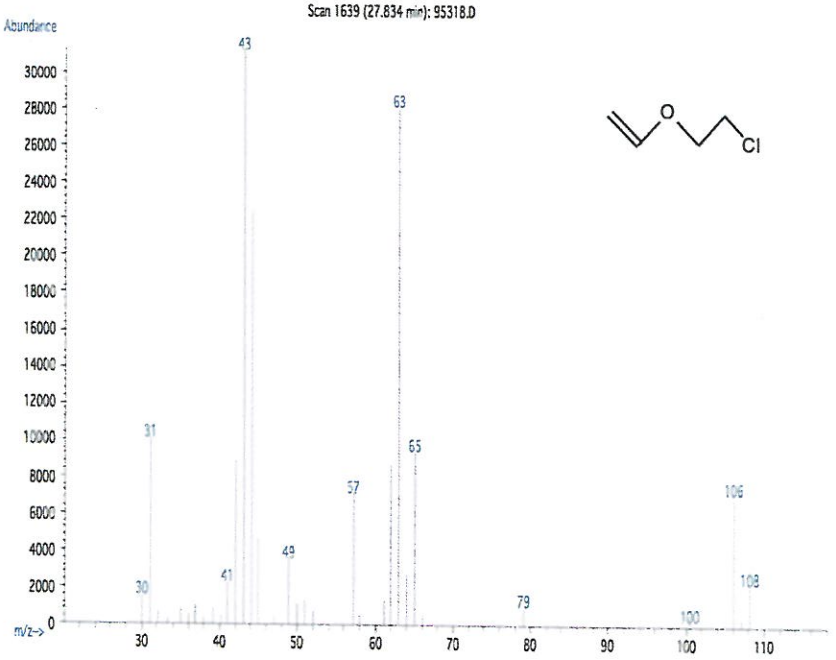
Weight(s) shown below were combined and diluted to (mL): 30.0 5E-05 Balance Uncertainty 0.002 Flask Uncertainty

Eli Aliaga		031419
Formulated By:	Eli Aliaga	DATE
Pedro Rentas		031419
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30284	0.30292	10002.6	40.6	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Analytical Reference Material ARM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 072618
Description: Bromochloromethane

Solvent(s): Methanol **Lot#** DS526

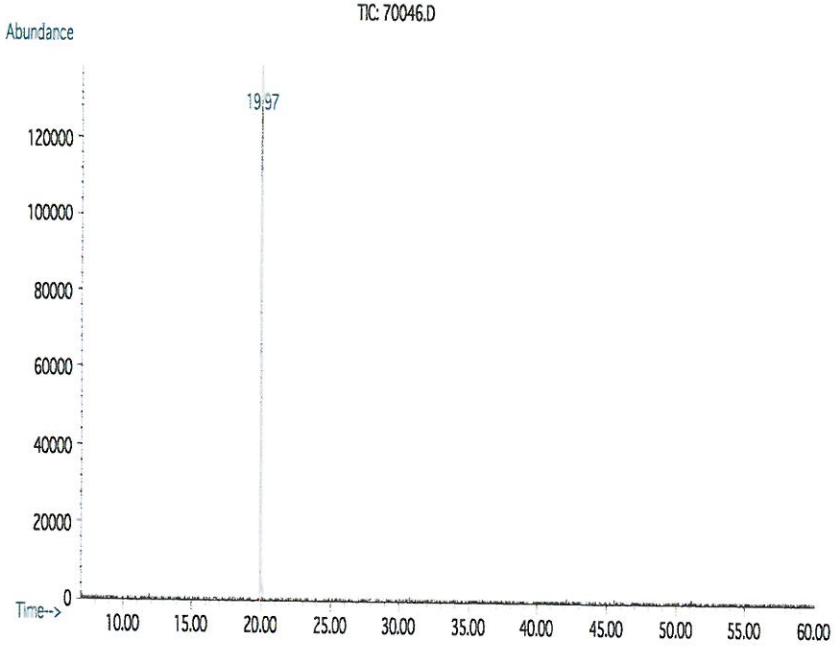
Expiration Date: 072623
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 822-275872-11

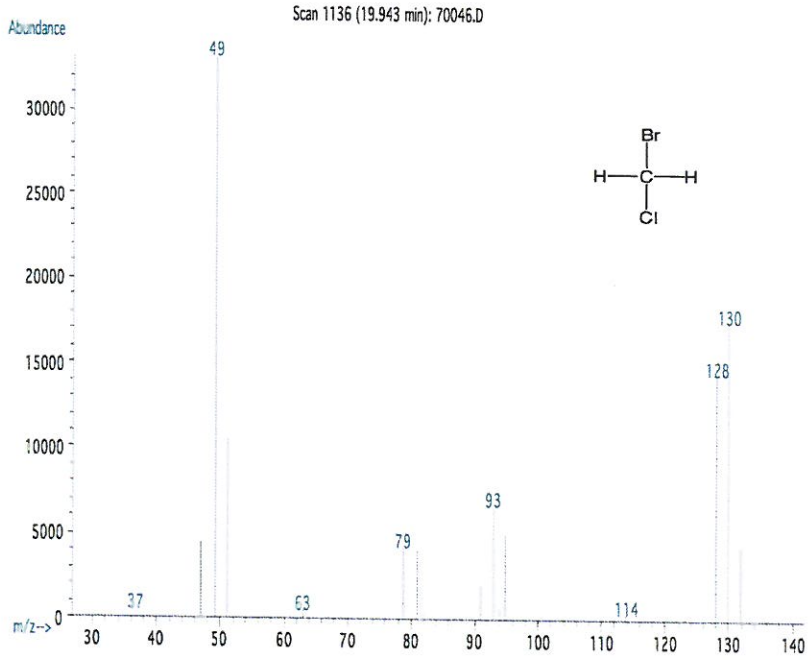
Weight(s) shown below were combined and diluted to (mL): 25.0 5E-05 Balance Uncertainty 0.002 Flask Uncertainty

Eli Aliaga	072618
Formulated By: Eli Aliaga	DATE
Pedro Rentas	072618
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02526	0.02540	1005.7	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 112320
Description: Acrolein

Expiration Date: 122320
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 23060

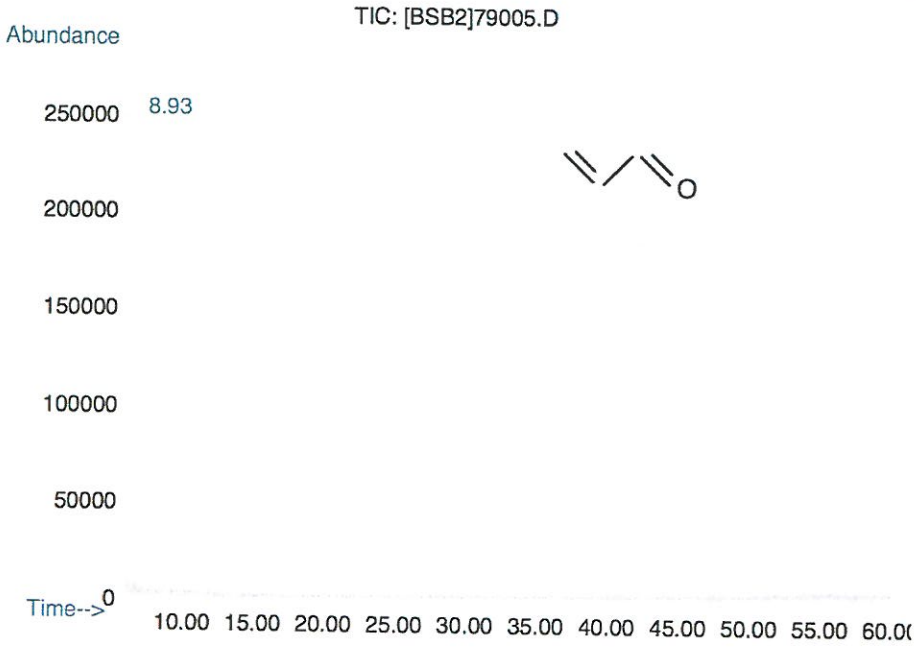
Solvent(s): Water **Lot#** 33120Q

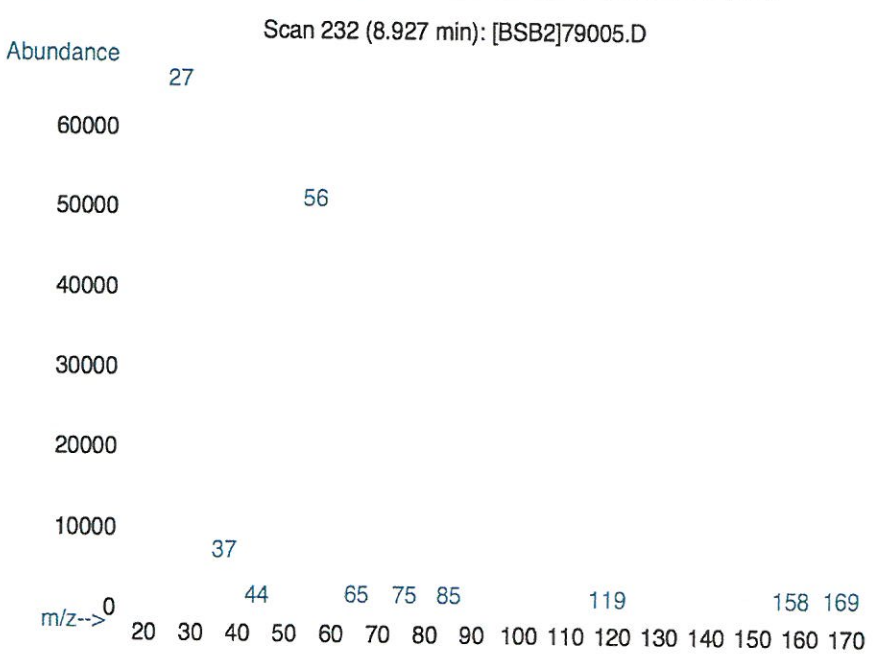
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Formulated By:	Benson Chan	112320 DATE
Reviewed By:	Pedro L. Rentas	112320 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	07813BN	5000	97	0.2	0.10302	0.10382	5039.0	21.4	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0140077

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 10°C or colder

CERTIFIED VALUES

Component #	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dichloroethane-d4		25,008.0 µg/mL	+/- 231.4287 µg/mL		Gravimetric
	CAS # 17060-07-0	(Lot PR-29377)		+/- 1,413.6866 µg/mL		Unstressed
	Purity 99%			+/- 1,446.2345 µg/mL		Stressed
2	1-Bromo-4-fluorobenzene (BFB)		25,028.0 µg/mL	+/- 231.6138 µg/mL		Gravimetric
	CAS # 460-00-4	(Lot 20401KO)		+/- 1,414.8171 µg/mL		Unstressed
	Purity 99%			+/- 1,447.3911 µg/mL		Stressed
3	Dibromofluoromethane		25,012.0 µg/mL	+/- 231.4658 µg/mL		Gravimetric
	CAS # 1868-53-7	(Lot 0012017)		+/- 1,413.9127 µg/mL		Unstressed
	Purity 99%			+/- 1,446.4658 µg/mL		Stressed
4	Toluene-d8		25,040.0 µg/mL	+/- 231.7249 µg/mL		Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 1,415.4955 µg/mL		Unstressed
	Purity 99%			+/- 1,448.0851 µg/mL		Stressed

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0141192

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butanol (TBA)	50,085.8 µg/mL	+/- 293.2636	µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBJ3142)		+/- 1,072.9051	µg/mL	Unstressed
	Purity 98%		+/- 1,104.0642	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

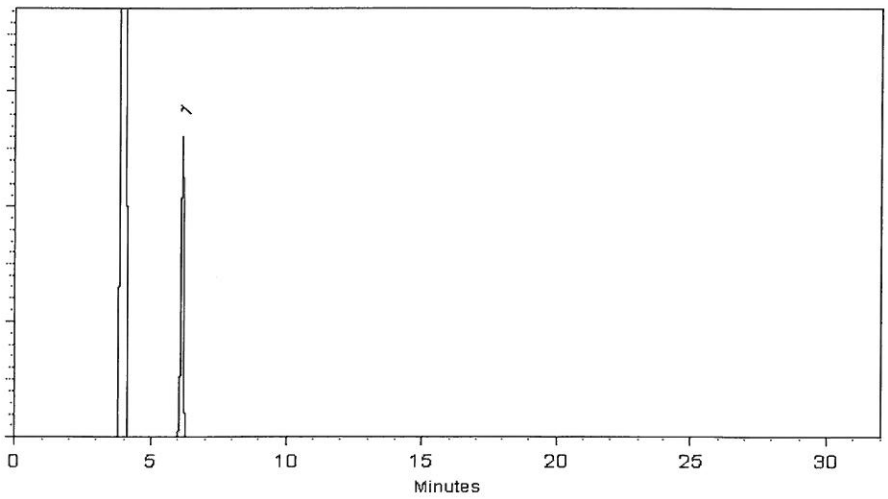
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Larry J. Moore - Mix Technician **Date Mixed:** 31-Aug-2018 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 05-Sep-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0146062

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butanol (TBA) **CAS #** 75-65-0 **Purity** 99%	(Lot SHBJ9404)	50,098.0 µg/mL	+/- 293.3348 µg/mL +/- 1,073.1656 µg/mL +/- 1,104.3322 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

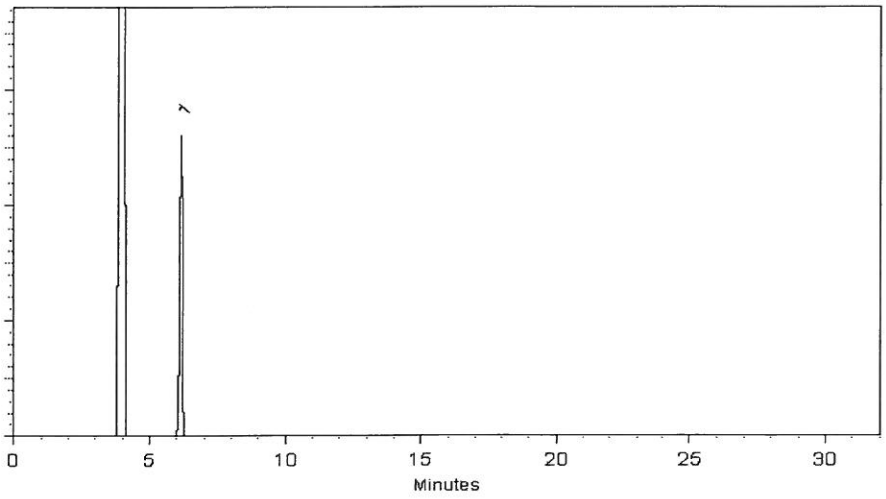
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 14-Feb-2019 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 17-Feb-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0159420

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot MKCK2598) **Purity** 99%	5,006.4 µg/mL	+/- 29.1076 µg/mL +/- 302.0583 µg/mL +/- 302.7754 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBK9603) **Purity** 99%	5,001.8 µg/mL	+/- 29.0809 µg/mL +/- 301.7808 µg/mL +/- 302.4972 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBK5017) **Purity** 99%	5,001.5 µg/mL	+/- 29.0792 µg/mL +/- 301.7627 µg/mL +/- 302.4791 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCL1599) **Purity** 99%	5,001.6 µg/mL	+/- 29.0797 µg/mL +/- 301.7687 µg/mL +/- 302.4851 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

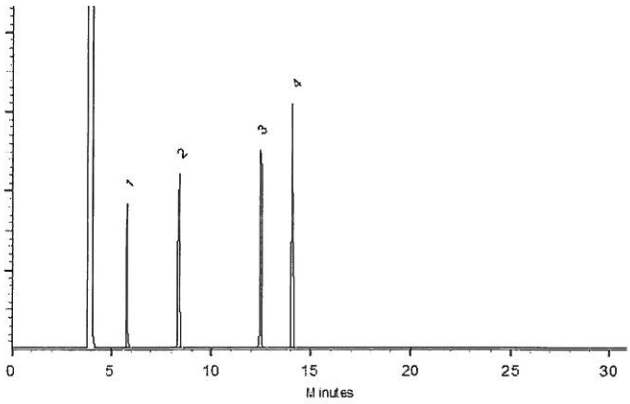
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 30-Mar-2020 **Balance:** B251644995

Feng Yen Lo QC Analyst

Date Passed: 01-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0154174

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot SHBK6362)	5,005.9 µg/mL	+/- 29.1047 µg/mL +/- 302.0281 µg/mL +/- 302.7452 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBK2537)	5,002.6 µg/mL	+/- 29.0855 µg/mL +/- 301.8290 µg/mL +/- 302.5456 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBK5017)	5,007.2 µg/mL	+/- 29.1123 µg/mL +/- 302.1066 µg/mL +/- 302.8238 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCD9048)	5,009.0 µg/mL	+/- 29.1228 µg/mL +/- 302.2152 µg/mL +/- 302.9327 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

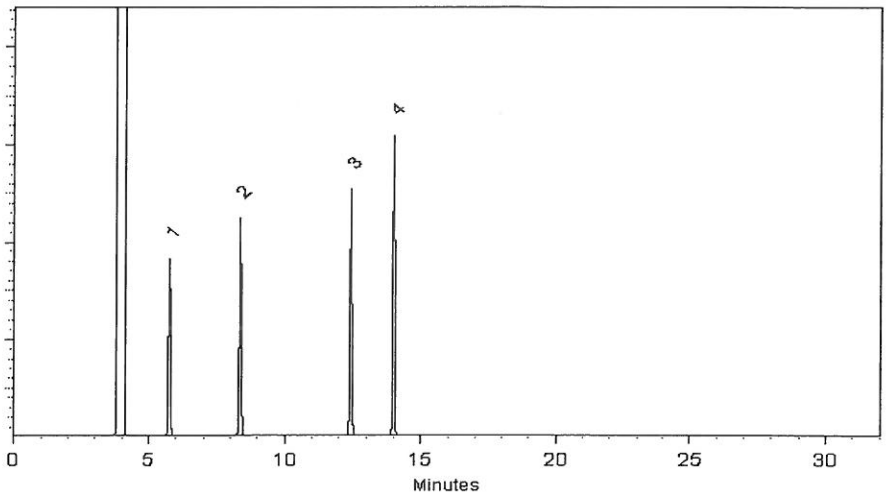
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 22-Oct-2019 **Balance:** B707717271

Fung-Yun Le - QC Analyst

Date Passed: 24-Oct-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

15

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 010719
Description: Universal VOA Megamix
69 components
Expiration Date: 010722
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 2684186

V10786 50
V10800

Solvent(s): Methanol
Lot# DT140Q6

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Formulated By:	Justin Dippold	010719 DATE
Reviewed By:	Pedro L. Rentas	010719 DATE

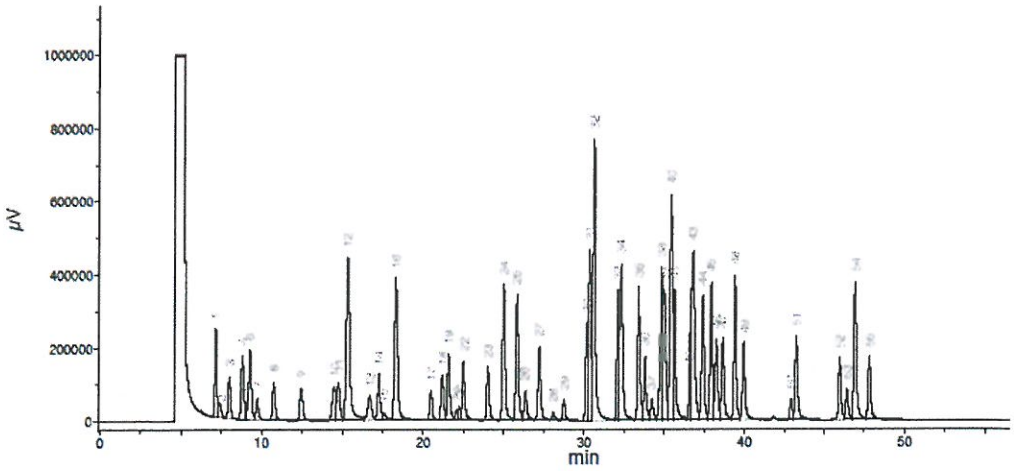
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20050	2002.8	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKBZ8669V	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21075	2001.9	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20728	0.20750	2002.2	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	209453	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20230	2002.6	8.2	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20225	2002.1	8.1	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20135	2003.2	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20120	2001.7	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20100	2007.8	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	03021BX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21075	2001.9	8.5	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20410	0.20430	2001.9	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	051118	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	1999.9	15.8	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	051118	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.9	15.8	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	122818	0.10	10.00	20005.5	2000	NA	NA	0.042	NA	NA	2000.3	18.7	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	1999.9	18.7	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.0	18.7	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	1999.9	18.7	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.0	18.7	594-20-7	N/A	N/A
29. [illegible]achloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.0	18.7	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. [illegible],1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	052418	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	052418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	142-28-9	N/A	unr-mus 3800mg/kg
36. 1,1-Dichloropropene	35161	052418	0.05	5.00	39639.5	2000	NA	NA	0.017	NA	NA	1981.8	24.2	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	052418	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	16.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	052418	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.8	15.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	79-34-5	5 ppm (35mg/m3/9H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	15.9	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	052418	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.8	15.8	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/kg
45. Benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	104-51-8	N/A	N/A
48. Ethyl benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	060418	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	060418	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	060418	0.05	5.00	40000.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	108-67-8	N/A	N/A
57. m-Xylene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	051118	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.9	15.8	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	051118	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.8	15.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	051118	0.05	5.00	40002.3	2000	NA	NA	0.017	NA	NA	1999.9	15.8	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.9	541-73-1	N/A	ipr-mus 1052mg/kg
65. 1,4-Dichlorobenzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.9	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	051118	0.05	5.00	40001.1	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 27, "P95317 L010719 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Wed, Jan 9, 2019 at 2:51:42 PM.
Sampled: Sequence "010819-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Analyte	FID RT (min.)
1	Ether	7.15
2	1,1,2-Trichloro-1,2,2-trifluoroethane	7.37
3	1,1-Dichloroethene	7.99
4	Acetonitrile	8.80
5	Iodomethane	9.01
6	Allyl chloride	9.27
7	**Carbon disulfide/Methylene chloride**	9.73
8	trans-1,2-Dichloroethene	10.73
9	1,1-Dichloroethane	12.44
10	2,2-Dichloropropane	14.49
11	cis-1,2-Dichloroethene	14.76
12	**Methacrylonitrile/Methyl acrylate/Chloroform**	15.33
13	**Isobutanol/1,1,1-Trichloroethane**	16.69
14	1,1-Dichloropropene	17.26
15	Carbon tetrachloride	17.72
16	**Benzene/1,2-Dichloroethane**	18.29
17	Trichloroethene	20.45
18	1,2-Dichloropropane	21.17
19	Methyl methacrylate	21.56
20	Bromodichloromethane	22.05
21	Dibromomethane	22.23
22	2-Nitropropane	22.48
23	cis-1,3-Dichloropropene	24.00
24	Toluene	24.97
25	**Ethyl methacrylate/trans-1,3-Dichloropropene**	25.82
26	1,1,2-Trichloroethane	26.33
27	**Tetrachloroethene/1,3-Dichloropropane**	27.20
28	Dibromochloromethane	28.06
29	1,2-Dibromoethane	28.72
30	Chlorobenzene	30.14
31	**Ethylbenzene/1,1,1,2-Tetrachloroethane**	30.32
32	**m-Xylene/p-Xylene**	30.59
33	o-Xylene	32.12
34	Styrene	32.30
35	**Isopropylbenzene/Bromoform**	33.39
36	cis-1,4-Dichloro-2-butene	33.79
37	1,1,2,2-Tetrachloroethane	34.21
38	**1,2,3-Trichloropropane/n-Propylbenzene**	34.82
39	**trans-1,4-Dichloro-2-butene/Bromobenzene**	34.99
40	**1,3,5-Trimethylbenzene/2-Chlorotoluene**	35.42
41	4-Chlorotoluene	35.61
42	tert-Butylbenzene	36.54
43	**1,2,4-Trimethylbenzene/Pentachloroethane**	36.78
44	sec-Butylbenzene	37.38
45	p-Isopropyltoluene	37.91
46	1,3-Dichlorobenzene	38.23
47	1,4-Dichlorobenzene	38.64
48	n-Butylbenzene	38.38
49	1,2-Dichlorobenzene	39.95
50	1,2-Dibromo-3-chloropropane	42.89
51	Nitrobenzene	43.23
52	1,2,4-Trichlorobenzene	45.95
53	Hexachlorobutadiene	46.41
54	Naphthalene	46.98
55	1,2,3-Trichlorobenzene	47.79

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. L5236
COC Number 2028261

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Day Environmental, Inc.
ADDRESS: 1563 Lyell Avenue
CITY Rochester STATE: NY ZIP: 14606
ATTENTION: Jeff Danzinger
PHONE: 585-454-0210 FAX: 585-454-0825

CLIENT PROJECT INFORMATION

PROJECT NAME: Andrews St. Site
PROJECT NO.: 5334$-17 LOCATION: Rochester, NY
PROJECT MANAGER: Jeff Danzinger
e-mail: jdanzinger@daymail.net
PHONE: 585-454-0210 FAX: 585-454-0825

CLIENT BILLING INFORMATION

BILL TO: Day Environmental, Inc. PO#: 53345-17
ADDRESS: 1563 Lyell Avenue
CITY Rochester STATE: NY ZIP: 14606
ATTENTION: Jeff Danzinger PHONE: 585-454-0210

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: 15 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☒ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☒ NYS ASP B
☐ Other
☒ EDD FORMAT NYSDEC Equis Excel

ANALYSIS

1 TCL VOCs + TICs 8260

PRESERVATIVES

A/E

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1.	1015 - MW-01 (23)	GW		X	12/28/20	1243	2	X									
2.	1016 - MW-02 (23.5)	GW		X		1250	6	X									also do mo/mod
3.	1017 - MW-03A (17)	GW		X		1256	2	X									
4.	1018 - MW-05 (17)	GW		X		1251	2	X									
5.	1019 - MW-11 (15)	GW		X		1335	2	X									
6.	1020 - MW-15 (17)	GW		X		1308	2	X									
7.	1021 - MW-16 (22.5)	GW		X		1312	2	X									
8.	1022 - MW-17A (15.5')	GW		X		1316	2	X									
9.	1023 - MW-18 (21.5)	GW		X		1320	2	X									
10.	1024 - MW-19 (28)	GW		X		1325	2	X									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12/28/20 1700	1. FED-EX
2. FED-EX	12.29.20 11:20	2.
3.		3.

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.8 °C
Comments: IR Gun #1

Page 1 of 2

CLIENT: ☐ Hand Delivered ☒ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☒ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. L5236
COC Number 2028262

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Day Environmental, Inc.
ADDRESS: 1563 Lyell Avenue
CITY Rochester STATE: NY ZIP: 14606
ATTENTION: Jeff Danzinger
PHONE: 585-454-0210 FAX: 585-454-0825

CLIENT PROJECT INFORMATION

PROJECT NAME: Andrews St. Site
PROJECT NO.: 5334S-17 LOCATION: Rochester, NY
PROJECT MANAGER: Jeff Danzinger
e-mail: jdanzinger@daymail.net
PHONE: 585-454-0210 FAX: 585-454-0825

CLIENT BILLING INFORMATION

BILL TO: Day Environmental, Inc. PO#: 5334S-17
ADDRESS: 1563 Lyell Avenue
CITY Rochester STATE: NY ZIP: 14606
ATTENTION: Jeff Danzinger PHONE: 585-454-0210

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: 15 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☒ Level 4 (QC + Full Raw Data)
- ☐ Level 2 (Results + QC)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other
- ☒ EDD FORMAT NYSDEC Equis Excel

ANALYSIS

1 TCL VOCs + TICs B260

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1.	1025-FB122820	AQ		X	12/28/20	1238	2	X									
2.	1026-TB122820	AQ		X	12/28/20	—	2	X									
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

12-28-20

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12-28-20 1500	1. FED-EX
2. FED-EX	11:20 12-29-20	2.
3.		3.

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.8 °C
Comments: IR gun #

Page 2 of 2

CLIENT: ☐ Hand Delivered ☒ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☒ YES ☐ NO

NY ENVIRONMENTAL, INC.
NALSIDE BUSINESS CENTER
563 LYELL AVENUE
ROCHESTER, NY 14606
UNITED STATES US

CAD: 0403412/CAFE3407

TO CASS
CHEMTECH
284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092
(908) 728-3144
REF: B2011054

RMA:

56DC5/8AB9/05A2

FedEx Express

J2810191106010

FedEx
TRK# 0221 9004 3117 3621

TUE – 29 DEC 4:30P
STANDARD OVERNIGHT

XA KBCA

07092
NJ-US EWR

Part # 156297-435 RRDW2 EXP 10/21

#5186830 12/28 56BJ2/9196/B766

12-29-20
11:20 L5236

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255420
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-18-00132
Texas	T104704488-20-13

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : L5236 DAYE01
Client Name : Day Environmental, Inc.
Client Contact : Jeff Danzinger
Invoice Name : Day Environmental, Inc.
Invoice Contact : Jeff Danzinger

Order Date : 12/29/2020 11:21:00 AM
Project Name : Andrew St. RI
Receive DateTime : 12/29/2020 11:20:00 AM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : Equis_EQNYDEC/Excel
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
L5236-01	1015-MW-01(23)	Water	12/28/2020	12:43					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-02	1016-MW-02(23.8)	Water	12/28/2020	12:50					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-03	L5236-02MS	Water	12/28/2020	12:50					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-04	L5236-02MSD	Water	12/28/2020	12:50					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-05	1017-MW-03A(17)	Water	12/28/2020	12:56					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-06	1018-MW-05(17)	Water	12/28/2020	12:59					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-07	1019-MW-11(15)	Water	12/28/2020	13:35					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-08	1020-MW-15(17)	Water	12/28/2020	13:08					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-09	1021-MW-16(22.5)	Water	12/28/2020	13:12					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : L5236 DAYE01
Client Name : Day Environmental, Inc.
Client Contact : Jeff Danzinger
Invoice Name : Day Environmental, Inc.
Invoice Contact : Jeff Danzinger

Order Date : 12/29/2020 11:21:00 AM
Project Name : Andrew St. RI
Receive DateTime : 12/29/2020 11:20:00 AM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : Equis_EQNYDEC/Excel
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-10	1022-MW-17A(15.5)	Water	12/28/2020	13:16					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-11	~~1023-MW-18(121.5)~~ 1023-mw-18(21.5) SC	Water	12/28/2020	13:20					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-12	1024-MW-19(28)	Water	12/28/2020	13:25					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-13	1025-FB122820	Water	12/28/2020	12:38					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
L5236-14	1026-TB122820	Water	12/28/2020	00:00					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days

Relinguished By : [signature]
Date / Time : 12-29-20 12:05

Received By : [signature]
Date / Time : 12.29.20 12:05

Storage Area : VOA Refridgerator Room

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DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : ANDREW ST. RI

DAY ENVIRONMENTAL, INC.

Canalside Business Center, 1563 Lyell Avenue

Rochester, NY - 14606

Phone No: 585-454-0210

ORDER ID : M3859

ATTENTION : Jeff Danzinger

Table Of Contents for M3859

1) VOLATILES DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 12
9) QC Data Summary For VOC-TCLVOA-10 15
9.1) Deuterated Monitoring Compound Summary 16
9.2) MS/MSD Summary 18
9.3) LCS/LCSD Summary 22
9.4) Method Blank Summary 30
9.5) GS/MS Tune Summary 34
9.6) Internal Standard Area and RT Summary 39
10) Sample Data 47
10.1) 1027-MW-01 48
10.2) 1027-MW-01DL 64
10.3) 1028-MW-02 75
10.4) 1029-MW-03A 92
10.5) 1029-MW-03ADL 108
10.6) 1030-MW-11 120
10.7) 1030-MW-11DL 136
10.8) 1031-MW-17A 147
10.9) 1032-FB092021 163
10.10) 1033-TB092021 179
11) Calibration Data Summary 193
11.1) Initial Calibration Data 194
11.1.1) VU092521 194
11.2) Continued Calibration Data 567
11.2.1) VU044829.D 567
11.2.2) VU044857.D 627
11.2.3) VU044885.D 687
11.2.4) VU044905.D 747
12) QC Sample Data 807

Table Of Contents for M3859

12.1) Tune Raw Data 808

12.2) Method Blank Data 813

12.3) LCS Data 865

12.4) MS Data 1085

12.5) MSD Data 1140

13) Manual Integration 1195

14) Analytical Runlogs 1198

15) Standard Prep Logs 1210

16) Shipping Document 1345

16.1) Chain Of Custody 1346

16.2) Lab Certificate 1347

16.3) Internal COC 1348

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Cover Page

Order ID : M3859

Project ID : Andrew St. RI

Client : Day Environmental, Inc.

Lab Sample Number	Client Sample Number
M3859-01	1027-MW-01
M3859-02	1028-MW-02
M3859-03	1029-MW-03A
M3859-04	1030-MW-11
M3859-05	1031-MW-17A
M3859-06	1032-FB092021
M3859-07	1033-TB092021
M3859-08	1028-MW-02MS
M3859-09	1028-MW-02MSD

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

Date: 10/1/2021

By Nimisha Pandya, QA/QC Supervisor at 2:07 pm, Oct 04, 2021

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Day Environmental, Inc.
Project Name: Andrew St. RI
Project # N/A
Chemtech Project # M3859
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/21/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {M3859-08MS} with File ID: VU044853.D recoveries met the requirements for all compounds except for Tetrachloroethene[145%] due to matrix interference.

The MSD {M3859-09MSD} with File ID: VU044854.D recoveries met the requirements for all compounds except for Tetrachloroethene[125%] due to matrix interference.

The RPD for {M3859-09MSD} with File ID: VU044854.D met criteria except for Bromomethane[38%] due to difference in results of MS and MSD.

The Blank Spike for {VU0927WBS01} with File ID: VU044889.D met requirements for all samples except for Bromomethane[52%] is failing low but only dilution sample associated with this BS therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 15% in the Initial calibration method (82U092421W.M) for Bromomethane, Chloroethane, Styrene these compounds are passing on Linear Regression.

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The Continuous Calibration File ID VU044885.D met the requirements except for Bromochloromethane which is failing marginally low while 1,2,4 Trichlorobenzene, Acetone and Methylcyclohexane are failing high but associate sample having hit of only acetone but below CRQL therefore no corrective action taken.

The Tuning criteria met requirements.

Samples 1027-MW-01, 1029-MW-03A and 1030-MW-11 were diluted due to high concentrations.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature__ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 2:07 pm, Oct 04, 2021

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

CHEMTECH
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GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: M3859 MATRIX: Water

METHOD: 8260-Low

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 15% in the Initial calibration method (82U092421W.M) for Bromomethane, Chloroethane, Styrene these compounds are passing on Linear Regression. The Continuous Calibration File ID VU044885.D met the requirements except for Bromochloromethane which is failing marginally low while 1,2,4-Trichlorobenzene, Acetone,and Methylcyclohexane are failing high but associate sample having hit of only acetone but below CRQL therefore no corrective action taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {M3859-08MS} with File ID: VU044853.D recoveries met the requirements for all compounds except for Tetrachloroethene[145%] due to matrix interference. The MSD {M3859-09MSD} with File ID: VU044854.D recoveries met the requirements for all compounds except for Tetrachloroethene[125%] due to matrix interference. The Blank Spike for {VU0927WBS01} with File ID: VU044889.D met requirements for all samples except for Bromomethane[52%] is failing low but only dilution sample associated with this BS therefore no corrective action taken. The RPD for {M3859-09MSD} with File ID: VU044854.D met criteria except for Bromomethane[38%] due to difference in results of MS and MSD.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples 1027-MW-01, 1029-MW-03A and 1030-MW-11 were diluted due to high concentrations.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

S. M. Jodhani

QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 10:16 am, Oct 04, 2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: M3859

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 10/01/2021

2nd Level QA Review Signatur N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 2:08 pm, Oct 04, 2021

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	M3859	**OrderDate:**	9/21/2021 2:02:00 PM
Client:	Day Environmental, Inc.	**Project:**	Andrew St. RI
Contact:	Jeff Danzinger	**Location:**	A11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
M3859-01	**1027-MW-01**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/25/21	
M3859-01DL	**1027-MW-01DL**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/28/21	
M3859-02	**1028-MW-02**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/28/21	
M3859-03	**1029-MW-03A**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/25/21	
M3859-03DL	**1029-MW-03ADL**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/28/21	
M3859-04	**1030-MW-11**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/26/21	
M3859-04DL	**1030-MW-11DL**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/27/21	
M3859-05	**1031-MW-17A**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/26/21	
M3859-06	**1032-FB092021**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/28/21	
M3859-07	**1033-TB092021**	**Water**			**09/20/21**			**09/21/21**
			VOC-TCLVOA-10	8260-Low			09/26/21	

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Hit Summary Sheet
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**1027-MW-01**								
M3859-01	1027-MW-01	Water	Vinyl Chloride		7.20		0.19	1.00	ug/L
M3859-01	1027-MW-01	Water	Acetone		10.00		1.60	5.00	ug/L
M3859-01	1027-MW-01	Water	trans-1,2-Dichloroethene		1.20		0.19	1.00	ug/L
M3859-01	1027-MW-01	Water	cis-1,2-Dichloroethene		95.40		0.22	1.00	ug/L
M3859-01	1027-MW-01	Water	Trichloroethene		110.00		0.17	1.00	ug/L
M3859-01	1027-MW-01	Water	Tetrachloroethene		1,500.00	E	0.17	1.00	ug/L
			Total Voc :		1723.8				
			Total Concentration:		1723.8				
Client ID:	**1027-MW-01DL**								
M3859-01DL	1027-MW-01DL	Water	cis-1,2-Dichloroethene		110.00	D	4.40	20.0	ug/L
M3859-01DL	1027-MW-01DL	Water	Trichloroethene		110.00	D	3.50	20.0	ug/L
M3859-01DL	1027-MW-01DL	Water	Tetrachloroethene		1,400.00	D	3.30	20.0	ug/L
			Total Voc :		1620				
			Total Concentration:		1620				
Client ID:	**1028-MW-02**								
M3859-02	1028-MW-02	Water	Vinyl Chloride		2.20		0.19	1.00	ug/L
M3859-02	1028-MW-02	Water	Acetone		6.10		1.60	5.00	ug/L
M3859-02	1028-MW-02	Water	trans-1,2-Dichloroethene		1.10		0.19	1.00	ug/L
M3859-02	1028-MW-02	Water	2-Butanone		1.50	J	0.90	5.00	ug/L
M3859-02	1028-MW-02	Water	cis-1,2-Dichloroethene		33.50		0.22	1.00	ug/L
M3859-02	1028-MW-02	Water	Trichloroethene		46.30		0.17	1.00	ug/L
M3859-02	1028-MW-02	Water	Tetrachloroethene		87.70		0.17	1.00	ug/L
			Total Voc :		178.4				
M3859-02	1028-MW-02	Water	Naphthalene	*	1.20	J	0.26	1.00	ug/L
			Total Tics :		1.2				
			Total Concentration:		179.6				
Client ID:	**1029-MW-03A**								
M3859-03	1029-MW-03A	Water	Acetone		8.30		1.60	5.00	ug/L
M3859-03	1029-MW-03A	Water	trans-1,2-Dichloroethene		5.30		0.19	1.00	ug/L
M3859-03	1029-MW-03A	Water	cis-1,2-Dichloroethene		75.40		0.22	1.00	ug/L
M3859-03	1029-MW-03A	Water	Trichloroethene		83.00		0.17	1.00	ug/L
M3859-03	1029-MW-03A	Water	Tetrachloroethene		310.00	E	0.17	1.00	ug/L
			Total Voc :		482				
			Total Concentration:		482				
Client ID:	**1029-MW-03ADL**								
M3859-03DL	1029-MW-03ADL	Water	Acetone		9.20	JD	8.10	25.0	ug/L
M3859-03DL	1029-MW-03ADL	Water	trans-1,2-Dichloroethene		5.20	D	0.96	5.00	ug/L
M3859-03DL	1029-MW-03ADL	Water	cis-1,2-Dichloroethene		68.20	D	1.10	5.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
M3859-03DL	1029-MW-03ADL	Water	Trichloroethene		73.90	D	0.87	5.00	ug/L
M3859-03DL	1029-MW-03ADL	Water	Tetrachloroethene		260.00	D	0.84	5.00	ug/L
			Total Voc :		416.5				
			Total Concentration:		416.5				
Client ID:	**1030-MW-11**								
M3859-04	1030-MW-11	Water	Acetone		9.20		1.60	5.00	ug/L
M3859-04	1030-MW-11	Water	2-Butanone		2.40	J	0.90	5.00	ug/L
M3859-04	1030-MW-11	Water	cis-1,2-Dichloroethene		17.00		0.22	1.00	ug/L
M3859-04	1030-MW-11	Water	Trichloroethene		22.90		0.17	1.00	ug/L
M3859-04	1030-MW-11	Water	Tetrachloroethene		380.00	E	0.17	1.00	ug/L
			Total Voc :		431.5				
M3859-04	1030-MW-11	Water	Tetrahydrofuran	*	1.10	J	1.00	5.00	ug/L
			Total Tics :		1.1				
			Total Concentration:		432.6				
Client ID:	**1030-MW-11DL**								
M3859-04DL	1030-MW-11DL	Water	Acetone		11.10	JD	8.10	25.0	ug/L
M3859-04DL	1030-MW-11DL	Water	cis-1,2-Dichloroethene		15.50	D	1.10	5.00	ug/L
M3859-04DL	1030-MW-11DL	Water	Trichloroethene		21.60	D	0.87	5.00	ug/L
M3859-04DL	1030-MW-11DL	Water	Tetrachloroethene		360.00	D	0.84	5.00	ug/L
			Total Voc :		408.2				
			Total Concentration:		408.2				
Client ID:	**1031-MW-17A**								
M3859-05	1031-MW-17A	Water	Vinyl Chloride		6.80		0.19	1.00	ug/L
M3859-05	1031-MW-17A	Water	Acetone		9.60		1.60	5.00	ug/L
M3859-05	1031-MW-17A	Water	trans-1,2-Dichloroethene		1.20		0.19	1.00	ug/L
M3859-05	1031-MW-17A	Water	cis-1,2-Dichloroethene		86.60		0.22	1.00	ug/L
M3859-05	1031-MW-17A	Water	Trichloroethene		9.10		0.17	1.00	ug/L
M3859-05	1031-MW-17A	Water	Tetrachloroethene		3.60		0.17	1.00	ug/L
			Total Voc :		116.9				
			Total Concentration:		116.9				
Client ID:	**1032-FB092021**								
M3859-06	1032-FB092021	Water	Acetone		15.80		1.60	5.00	ug/L
M3859-06	1032-FB092021	Water	2-Butanone		2.10	J	0.90	5.00	ug/L
M3859-06	1032-FB092021	Water	Toluene		0.31	J	0.22	1.00	ug/L
M3859-06	1032-FB092021	Water	Tetrachloroethene		0.36	J	0.17	1.00	ug/L
			Total Voc :		18.57				
M3859-06	1032-FB092021	Water	1-Hexanol, 2-ethyl-	*	5.70	J	0	0	ug/L
M3859-06	1032-FB092021	Water	Naphthalene	*	1.20	J	0.26	1.00	ug/L
			Total Tics :		6.9				
			Total Concentration:		25.47				

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Hit Summary Sheet
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**1033-TB092021**							
M3859-07	1033-TB092021	Water	Acetone	1.80	J	1.60	5.00	ug/L
			Total Voc :	1.8				
			Total Concentration:	1.8				

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
M3859-01	1027-MW-01	1,2-Dichloroethane-d4	50	48.5	97	78	117
		Dibromofluoromethane	50	48.1	96	75	124
		Toluene-d8	50	50.5	101	92	112
		4-Bromofluorobenzene	50	43.9	88	83	123
M3859-01DL	1027-MW-01DL	1,2-Dichloroethane-d4	50	43.9	88	78	117
		Dibromofluoromethane	50	44.6	89	75	124
		Toluene-d8	50	48.3	97	92	112
		4-Bromofluorobenzene	50	48.9	98	83	123
M3859-02	1028-MW-02	1,2-Dichloroethane-d4	50	45.0	90	78	117
		Dibromofluoromethane	50	45.0	90	75	124
		Toluene-d8	50	48.1	96	92	112
		4-Bromofluorobenzene	50	47.5	95	83	123
M3859-03	1029-MW-03A	1,2-Dichloroethane-d4	50	48.1	96	78	117
		Dibromofluoromethane	50	48.9	98	75	124
		Toluene-d8	50	50.3	101	92	112
		4-Bromofluorobenzene	50	46.2	92	83	123
M3859-03DL	1029-MW-03ADL	1,2-Dichloroethane-d4	50	44.9	90	78	117
		Dibromofluoromethane	50	45.1	90	75	124
		Toluene-d8	50	48.3	97	92	112
		4-Bromofluorobenzene	50	48.1	96	83	123
M3859-04	1030-MW-11	1,2-Dichloroethane-d4	50	48.1	96	78	117
		Dibromofluoromethane	50	47.0	94	75	124
		Toluene-d8	50	49.5	99	92	112
		4-Bromofluorobenzene	50	46.3	93	83	123
M3859-04DL	1030-MW-11DL	1,2-Dichloroethane-d4	50	44.7	89	78	117
		Dibromofluoromethane	50	43.8	88	75	124
		Toluene-d8	50	48.3	97	92	112
		4-Bromofluorobenzene	50	49.7	99	83	123
M3859-05	1031-MW-17A	1,2-Dichloroethane-d4	50	47.8	96	78	117
		Dibromofluoromethane	50	47.1	94	75	124
		Toluene-d8	50	48.9	98	92	112
		4-Bromofluorobenzene	50	45.2	90	83	123
M3859-06	1032-FB092021	1,2-Dichloroethane-d4	50	44.3	89	78	117
		Dibromofluoromethane	50	44.8	90	75	124
		Toluene-d8	50	48.0	96	92	112
		4-Bromofluorobenzene	50	46.1	92	83	123
M3859-07	1033-TB092021	1,2-Dichloroethane-d4	50	48.0	96	78	117
		Dibromofluoromethane	50	47.2	94	75	124
		Toluene-d8	50	49.0	98	92	112
		4-Bromofluorobenzene	50	46.2	92	83	123
M3859-08MS	1028-MW-02MS	1,2-Dichloroethane-d4	50	52.4	105	78	117
		Dibromofluoromethane	50	49.5	99	75	124
		Toluene-d8	50	50.2	100	92	112
		4-Bromofluorobenzene	50	53.0	106	83	123
M3859-09MSD	1028-MW-02MSD	1,2-Dichloroethane-d4	50	50.2	100	78	117
		Dibromofluoromethane	50	48.9	98	75	124
		Toluene-d8	50	49.5	99	92	112
		4-Bromofluorobenzene	50	49.0	98	83	123
VU0925WBL01	VU0925WBL01	1,2-Dichloroethane-d4	50	48.8	98	78	117
		Dibromofluoromethane	50	47.4	95	75	124
		Toluene-d8	50	49.0	98	92	112
		4-Bromofluorobenzene	50	45.6	91	83	123

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Surrogate Summary

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VU0925WBL02	VU0925WBL02	1,2-Dichloroethane-d4	50	48.5	97	78	117
		Dibromofluoromethane	50	47.0	94	75	124
		Toluene-d8	50	49.8	100	92	112
		4-Bromofluorobenzene	50	45.5	91	83	123
VU0925WBS01	VU0925WBS01	1,2-Dichloroethane-d4	50	52.4	105	78	117
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	50.6	101	92	112
		4-Bromofluorobenzene	50	49.9	100	83	123
VU0925WBS02	VU0925WBS02	1,2-Dichloroethane-d4	50	55.1	110	78	117
		Dibromofluoromethane	50	51.7	103	75	124
		Toluene-d8	50	52.0	104	92	112
		4-Bromofluorobenzene	50	50.3	101	83	123
VU0927WBL01	VU0927WBL01	1,2-Dichloroethane-d4	50	45.4	91	78	117
		Dibromofluoromethane	50	44.9	90	75	124
		Toluene-d8	50	48.8	98	92	112
		4-Bromofluorobenzene	50	46.7	93	83	123
VU0927WBL02	VU0927WBL02	1,2-Dichloroethane-d4	50	44.8	90	78	117
		Dibromofluoromethane	50	44.7	89	75	124
		Toluene-d8	50	48.5	97	92	112
		4-Bromofluorobenzene	50	47.6	95	83	123
VU0927WBS01	VU0927WBS01	1,2-Dichloroethane-d4	50	52.8	106	78	117
		Dibromofluoromethane	50	51.8	104	75	124
		Toluene-d8	50	53.4	107	92	112
		4-Bromofluorobenzene	50	58.6	117	83	123
VU0927WBS02	VU0927WBS02	1,2-Dichloroethane-d4	50	49.8	100	78	117
		Dibromofluoromethane	50	48.7	97	75	124
		Toluene-d8	50	49.0	98	92	112
		4-Bromofluorobenzene	50	51.0	102	83	123

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : M3859-08MS		**Client Sample ID : 1028-MW-02MS**						**Datafile :**	VU044853.D		
Dichlorodifluoromethane	50	0	53.1	ug/L	106				73	120	
Chloromethane	50	0	41.4	ug/L	83				58	133	
Vinyl chloride	50	2.20	52.6	ug/L	101				69	125	
Bromomethane	50	0	30.3	ug/L	61				45	135	
Chloroethane	50	0	48.8	ug/L	98				77	119	
Trichlorofluoromethane	50	0	50.2	ug/L	100				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	49.4	ug/L	99				75	117	
1,1-Dichloroethene	50	0	48.9	ug/L	98				77	118	
Acetone	250	6.10	240	ug/L	94				57	139	
Carbon disulfide	50	0	46.6	ug/L	93				67	118	
Methyl tert-butyl Ether	50	0	52.2	ug/L	104				60	148	
Methyl Acetate	50	0	45.0	ug/L	90				60	133	
Methylene Chloride	50	0	47.3	ug/L	95				79	115	
trans-1,2-Dichloroethene	50	1.10	51.2	ug/L	100				60	133	
1,1-Dichloroethane	50	0	50.7	ug/L	101				78	122	
Cyclohexane	50	0	46.6	ug/L	93				71	119	
2-Butanone	250	1.50	250	ug/L	99				67	137	
Carbon Tetrachloride	50	0	48.4	ug/L	97				84	115	
cis-1,2-Dichloroethene	50	33.5	94.1	ug/L	121				56	145	
Bromochloromethane	50	0	49.5	ug/L	99				72	130	
Chloroform	50	0	49.1	ug/L	98				83	119	
1,1,1-Trichloroethane	50	0	50.1	ug/L	100				83	117	
Methylcyclohexane	50	0	49.6	ug/L	99				64	120	
Benzene	50	0	48.1	ug/L	96				83	115	
1,2-Dichloroethane	50	0	48.9	ug/L	98				76	120	
Trichloroethene	50	46.3	110	ug/L	127				45	149	
1,2-Dichloropropane	50	0	48.7	ug/L	97				85	116	
Bromodichloromethane	50	0	48.8	ug/L	98				86	117	
4-Methyl-2-Pentanone	250	0	260	ug/L	104				72	137	
Toluene	50	0	50.0	ug/L	100				85	115	
t-1,3-Dichloropropene	50	0	50.0	ug/L	100				78	117	
cis-1,3-Dichloropropene	50	0	49.2	ug/L	98				77	115	
1,1,2-Trichloroethane	50	0	49.1	ug/L	98				87	119	
2-Hexanone	250	0	260	ug/L	104				75	131	
Dibromochloromethane	50	0	49.3	ug/L	99				88	118	
1,2-Dibromoethane	50	0	49.6	ug/L	99				85	119	
Tetrachloroethene	50	87.7	160	ug/L	145	*			65	114	
Chlorobenzene	50	0	48.8	ug/L	98				62	141	
Ethyl Benzene	50	0	51.0	ug/L	102				62	134	
m/p-Xylenes	100	0	100	ug/L	100				83	117	
o-Xylene	50	0	52.3	ug/L	105				81	120	
Styrene	50	0	48.5	ug/L	97				53	143	
Bromoform	50	0	48.0	ug/L	96				83	121	
Isopropylbenzene	50	0	49.4	ug/L	99				76	121	
1,1,2,2-Tetrachloroethane	50	0	48.4	ug/L	97				66	145	
1,3-Dichlorobenzene	50	0	49.4	ug/L	99				84	110	
1,4-Dichlorobenzene	50	0	48.2	ug/L	96				81	111	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	48.4	ug/L	97				82	113	
1,2-Dibromo-3-Chloropropane	50	0	51.6	ug/L	103				55	152	
1,2,4-Trichlorobenzene	50	0	50.2	ug/L	100				73	120	
1,2,3-Trichlorobenzene	50	0	50.7	ug/L	101				75	119	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : M3859-09MSD	**Client Sample ID : 1028-MW-02MSD**							**Datafile :**	VU044854.D		
Dichlorodifluoromethane	50	0	49.5	ug/L	99		7		73	120	20
Chloromethane	50	0	40.6	ug/L	81		2		58	133	20
Vinyl chloride	50	2.20	49.8	ug/L	95		6		69	125	20
Bromomethane	50	0	44.5	ug/L	89		38	*	45	135	20
Chloroethane	50	0	45.8	ug/L	92		6		77	119	20
Trichlorofluoromethane	50	0	48.3	ug/L	97		4		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	47.6	ug/L	95		4		75	117	20
1,1-Dichloroethene	50	0	47.0	ug/L	94		4		77	118	20
Acetone	250	6.10	230	ug/L	90		4		57	139	20
Carbon disulfide	50	0	44.9	ug/L	90		4		67	118	20
Methyl tert-butyl Ether	50	0	50.7	ug/L	101		3		60	148	20
Methyl Acetate	50	0	42.3	ug/L	85		6		60	133	20
Methylene Chloride	50	0	44.5	ug/L	89		6		79	115	20
trans-1,2-Dichloroethene	50	1.10	49.3	ug/L	96		4		60	133	20
1,1-Dichloroethane	50	0	48.7	ug/L	97		4		78	122	20
Cyclohexane	50	0	44.8	ug/L	90		4		71	119	20
2-Butanone	250	1.50	240	ug/L	95		4		67	137	20
Carbon Tetrachloride	50	0	47.3	ug/L	95		2		84	115	20
cis-1,2-Dichloroethene	50	33.5	89.7	ug/L	112		8		56	145	20
Bromochloromethane	50	0	45.2	ug/L	90		9		72	130	20
Chloroform	50	0	47.4	ug/L	95		4		83	119	20
1,1,1-Trichloroethane	50	0	48.0	ug/L	96		4		83	117	20
Methylcyclohexane	50	0	48.7	ug/L	97		2		64	120	20
Benzene	50	0	46.9	ug/L	94		3		83	115	20
1,2-Dichloroethane	50	0	47.4	ug/L	95		3		76	120	20
Trichloroethene	50	46.3	100	ug/L	107		17		45	149	20
1,2-Dichloropropane	50	0	47.0	ug/L	94		4		85	116	20
Bromodichloromethane	50	0	47.6	ug/L	95		2		86	117	20
4-Methyl-2-Pentanone	250	0	230	ug/L	92		12		72	137	20
Toluene	50	0	48.0	ug/L	96		4		85	115	20
t-1,3-Dichloropropene	50	0	48.7	ug/L	97		3		78	117	20
cis-1,3-Dichloropropene	50	0	48.3	ug/L	97		2		77	115	20
1,1,2-Trichloroethane	50	0	47.2	ug/L	94		4		87	119	20
2-Hexanone	250	0	240	ug/L	96		8		75	131	20
Dibromochloromethane	50	0	47.4	ug/L	95		4		88	118	20
1,2-Dibromoethane	50	0	46.9	ug/L	94		6		85	119	20
Tetrachloroethene	50	87.7	150	ug/L	125	*	15		65	114	20
Chlorobenzene	50	0	47.5	ug/L	95		3		62	141	20
Ethyl Benzene	50	0	50.3	ug/L	101		1		62	134	20
m/p-Xylenes	100	0	100	ug/L	100		0		83	117	20
o-Xylene	50	0	51.0	ug/L	102		3		81	120	20
Styrene	50	0	46.3	ug/L	93		5		53	143	20
Bromoform	50	0	46.3	ug/L	93		4		83	121	20
Isopropylbenzene	50	0	51.1	ug/L	102		3		76	121	20
1,1,2,2-Tetrachloroethane	50	0	47.4	ug/L	95		2		66	145	20
1,3-Dichlorobenzene	50	0	48.5	ug/L	97		2		84	110	20
1,4-Dichlorobenzene	50	0	47.6	ug/L	95		1		81	111	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	47.5	ug/L	95		2		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	53.0	ug/L	106		3		55	152	20
1,2,4-Trichlorobenzene	50	0	52.8	ug/L	106		5		73	120	20
1,2,3-Trichlorobenzene	50	0	53.4	ug/L	107		5		75	119	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0925WBS01	Dichlorodifluoromethane	20	19.7	ug/L	99			69	116	
	Chloromethane	20	17.4	ug/L	87			65	116	
	Vinyl chloride	20	18.5	ug/L	93			65	117	
	Bromomethane	20	21.2	ug/L	106			55	134	
	Chloroethane	20	18.5	ug/L	93			73	112	
	Trichlorofluoromethane	20	19.9	ug/L	100			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98			80	112	
	1,1-Dichloroethene	20	18.7	ug/L	94			74	110	
	Acetone	100	100	ug/L	100			60	125	
	Carbon disulfide	20	17.4	ug/L	87			64	112	
	Methyl tert-butyl Ether	20	20.1	ug/L	101			78	114	
	Methyl Acetate	20	19.3	ug/L	97			67	125	
	Methylene Chloride	20	19.1	ug/L	96			72	114	
	trans-1,2-Dichloroethene	20	19.6	ug/L	98			75	108	
	1,1-Dichloroethane	20	19.7	ug/L	99			78	112	
	Cyclohexane	20	18.4	ug/L	92			75	110	
	2-Butanone	100	99.3	ug/L	99			65	122	
	Carbon Tetrachloride	20	19.1	ug/L	96			77	113	
	cis-1,2-Dichloroethene	20	19.3	ug/L	97			77	110	
	Bromochloromethane	20	19.7	ug/L	99			70	124	
	Chloroform	20	19.7	ug/L	99			79	113	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			80	108	
	Methylcyclohexane	20	19.4	ug/L	97			72	115	
	Benzene	20	19.1	ug/L	96			82	109	
	1,2-Dichloroethane	20	20.1	ug/L	101			80	115	
	Trichloroethene	20	18.2	ug/L	91			77	113	
	1,2-Dichloropropane	20	19.2	ug/L	96			83	111	
	Bromodichloromethane	20	19.3	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	98.4	ug/L	98			74	118	
	Toluene	20	19.1	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			79	110	
	cis-1,3-Dichloropropene	20	19.6	ug/L	98			82	110	
	1,1,2-Trichloroethane	20	19.6	ug/L	98			83	112	
	2-Hexanone	100	97.1	ug/L	97			73	117	
	Dibromochloromethane	20	19.1	ug/L	96			82	110	
	1,2-Dibromoethane	20	19.7	ug/L	99			81	110	
	Tetrachloroethene	20	19.1	ug/L	96			67	123	
	Chlorobenzene	20	19.6	ug/L	98			82	109	
	Ethyl Benzene	20	19.4	ug/L	97			83	109	
	m/p-Xylenes	40	39.4	ug/L	99			82	110	
	o-Xylene	20	19.9	ug/L	100			83	109	
	Styrene	20	18.7	ug/L	94			80	111	
	Bromoform	20	18.0	ug/L	90			79	109	
	Isopropylbenzene	20	20.2	ug/L	101			83	112	
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98			76	118	
	1,3-Dichlorobenzene	20	19.7	ug/L	99			82	108	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			82	107	
	1,2-Dichlorobenzene	20	18.8	ug/L	94			82	109	
	1,2-Dibromo-3-Chloropropane	20	19.5	ug/L	98			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VU0925WBS01	1,2,4-Trichlorobenzene	20	19.4	ug/L	97			74	114	
	1,2,3-Trichlorobenzene	20	20.0	ug/L	100			77	113	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044859.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0925WBS02	Dichlorodifluoromethane	20	19.9	ug/L	100			69	116	
	Chloromethane	20	17.4	ug/L	87			65	116	
	Vinyl chloride	20	19.9	ug/L	100			65	117	
	Bromomethane	20	26.5	ug/L	133			55	134	
	Chloroethane	20	19.7	ug/L	99			73	112	
	Trichlorofluoromethane	20	20.3	ug/L	102			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99			80	112	
	1,1-Dichloroethene	20	19.3	ug/L	97			74	110	
	Acetone	100	97.5	ug/L	98			60	125	
	Carbon disulfide	20	18.0	ug/L	90			64	112	
	Methyl tert-butyl Ether	20	21.1	ug/L	106			78	114	
	Methyl Acetate	20	19.3	ug/L	97			67	125	
	Methylene Chloride	20	20.0	ug/L	100			72	114	
	trans-1,2-Dichloroethene	20	19.8	ug/L	99			75	108	
	1,1-Dichloroethane	20	20.4	ug/L	102			78	112	
	Cyclohexane	20	18.8	ug/L	94			75	110	
	2-Butanone	100	98.3	ug/L	98			65	122	
	Carbon Tetrachloride	20	18.7	ug/L	94			77	113	
	cis-1,2-Dichloroethene	20	19.4	ug/L	97			77	110	
	Bromochloromethane	20	16.3	ug/L	81			70	124	
	Chloroform	20	20.0	ug/L	100			79	113	
	1,1,1-Trichloroethane	20	20.1	ug/L	101			80	108	
	Methylcyclohexane	20	18.6	ug/L	93			72	115	
	Benzene	20	19.2	ug/L	96			82	109	
	1,2-Dichloroethane	20	19.8	ug/L	99			80	115	
	Trichloroethene	20	18.4	ug/L	92			77	113	
	1,2-Dichloropropane	20	19.1	ug/L	96			83	111	
	Bromodichloromethane	20	19.1	ug/L	96			83	110	
	4-Methyl-2-Pentanone	100	95.1	ug/L	95			74	118	
	Toluene	20	19.5	ug/L	98			82	110	
	t-1,3-Dichloropropene	20	18.6	ug/L	93			79	110	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			82	110	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			83	112	
	2-Hexanone	100	93.8	ug/L	94			73	117	
	Dibromochloromethane	20	18.8	ug/L	94			82	110	
	1,2-Dibromoethane	20	19.0	ug/L	95			81	110	
	Tetrachloroethene	20	19.6	ug/L	98			67	123	
	Chlorobenzene	20	19.5	ug/L	98			82	109	
	Ethyl Benzene	20	19.9	ug/L	100			83	109	
	m/p-Xylenes	40	39.7	ug/L	99			82	110	
	o-Xylene	20	20.1	ug/L	101			83	109	
	Styrene	20	18.6	ug/L	93			80	111	
	Bromoform	20	18.2	ug/L	91			79	109	
	Isopropylbenzene	20	21.1	ug/L	106			83	112	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			76	118	
	1,3-Dichlorobenzene	20	19.8	ug/L	99			82	108	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			82	107	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			82	109	
	1,2-Dibromo-3-Chloropropane	20	20.8	ug/L	104			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044859.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VU0925WBS02	1,2,4-Trichlorobenzene	20	19.7	ug/L	99			74	114	
	1,2,3-Trichlorobenzene	20	20.3	ug/L	102			77	113	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044889.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0927WBS01	Dichlorodifluoromethane	20	19.3	ug/L	97			69	116	
	Chloromethane	20	14.8	ug/L	74			65	116	
	Vinyl chloride	20	16.4	ug/L	82			65	117	
	Bromomethane	20	10.3	ug/L	52		*	55	134	
	Chloroethane	20	17.4	ug/L	87			73	112	
	Trichlorofluoromethane	20	19.0	ug/L	95			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			80	112	
	1,1-Dichloroethene	20	18.5	ug/L	93			74	110	
	Acetone	100	110	ug/L	110			60	125	
	Carbon disulfide	20	14.6	ug/L	73			64	112	
	Methyl tert-butyl Ether	20	20.8	ug/L	104			78	114	
	Methyl Acetate	20	18.1	ug/L	91			67	125	
	Methylene Chloride	20	18.1	ug/L	91			72	114	
	trans-1,2-Dichloroethene	20	18.2	ug/L	91			75	108	
	1,1-Dichloroethane	20	19.4	ug/L	97			78	112	
	Cyclohexane	20	17.6	ug/L	88			75	110	
	2-Butanone	100	97.0	ug/L	97			65	122	
	Carbon Tetrachloride	20	18.7	ug/L	94			77	113	
	cis-1,2-Dichloroethene	20	19.2	ug/L	96			77	110	
	Bromochloromethane	20	15.4	ug/L	77			70	124	
	Chloroform	20	19.1	ug/L	96			79	113	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			80	108	
	Methylcyclohexane	20	19.3	ug/L	97			72	115	
	Benzene	20	18.6	ug/L	93			82	109	
	1,2-Dichloroethane	20	19.3	ug/L	97			80	115	
	Trichloroethene	20	17.9	ug/L	90			77	113	
	1,2-Dichloropropane	20	19.1	ug/L	96			83	111	
	Bromodichloromethane	20	19.4	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	19.7	ug/L	99			82	110	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			79	110	
	cis-1,3-Dichloropropene	20	20.2	ug/L	101			82	110	
	1,1,2-Trichloroethane	20	19.9	ug/L	100			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	19.7	ug/L	99			82	110	
	1,2-Dibromoethane	20	19.5	ug/L	98			81	110	
	Tetrachloroethene	20	19.0	ug/L	95			67	123	
	Chlorobenzene	20	20.0	ug/L	100			82	109	
	Ethyl Benzene	20	20.7	ug/L	104			83	109	
	m/p-Xylenes	40	41.7	ug/L	104			82	110	
	o-Xylene	20	21.7	ug/L	109			83	109	
	Styrene	20	20.0	ug/L	100			80	111	
	Bromoform	20	21.1	ug/L	106			79	109	
	Isopropylbenzene	20	20.4	ug/L	102			83	112	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/L	104			76	118	
	1,3-Dichlorobenzene	20	21.0	ug/L	105			82	108	
	1,4-Dichlorobenzene	20	20.5	ug/L	103			82	107	
	1,2-Dichlorobenzene	20	20.4	ug/L	102			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044889.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VU0927WBS01	1,2,4-Trichlorobenzene	20	20.3	ug/L	102			74	114	
	1,2,3-Trichlorobenzene	20	20.3	ug/L	102			77	113	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044907.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0927WBS02	Dichlorodifluoromethane	20	16.7	ug/L	84			69	116	
	Chloromethane	20	13.4	ug/L	67			65	116	
	Vinyl chloride	20	14.8	ug/L	74			65	117	
	Bromomethane	20	12.6	ug/L	63			55	134	
	Chloroethane	20	15.9	ug/L	79			73	112	
	Trichlorofluoromethane	20	17.9	ug/L	90			73	115	
	1,1,2-Trichlorotrifluoroethane	20	17.6	ug/L	88			80	112	
	1,1-Dichloroethene	20	16.4	ug/L	82			74	110	
	Acetone	100	80.8	ug/L	81			60	125	
	Carbon disulfide	20	13.0	ug/L	65			64	112	
	Methyl tert-butyl Ether	20	19.5	ug/L	98			78	114	
	Methyl Acetate	20	16.7	ug/L	84			67	125	
	Methylene Chloride	20	16.7	ug/L	84			72	114	
	trans-1,2-Dichloroethene	20	16.7	ug/L	84			75	108	
	1,1-Dichloroethane	20	17.6	ug/L	88			78	112	
	Cyclohexane	20	15.8	ug/L	79			75	110	
	2-Butanone	100	84.3	ug/L	84			65	122	
	Carbon Tetrachloride	20	16.8	ug/L	84			77	113	
	cis-1,2-Dichloroethene	20	17.7	ug/L	89			77	110	
	Bromochloromethane	20	16.4	ug/L	82			70	124	
	Chloroform	20	17.8	ug/L	89			79	113	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			80	108	
	Methylcyclohexane	20	16.7	ug/L	84			72	115	
	Benzene	20	16.9	ug/L	85			82	109	
	1,2-Dichloroethane	20	17.4	ug/L	87			80	115	
	Trichloroethene	20	16.2	ug/L	81			77	113	
	1,2-Dichloropropane	20	17.1	ug/L	86			83	111	
	Bromodichloromethane	20	17.5	ug/L	88			83	110	
	4-Methyl-2-Pentanone	100	88.9	ug/L	89			74	118	
	Toluene	20	17.8	ug/L	89			82	110	
	t-1,3-Dichloropropene	20	18.1	ug/L	91			79	110	
	cis-1,3-Dichloropropene	20	17.4	ug/L	87			82	110	
	1,1,2-Trichloroethane	20	17.5	ug/L	88			83	112	
	2-Hexanone	100	89.8	ug/L	90			73	117	
	Dibromochloromethane	20	17.6	ug/L	88			82	110	
	1,2-Dibromoethane	20	17.5	ug/L	88			81	110	
	Tetrachloroethene	20	17.6	ug/L	88			67	123	
	Chlorobenzene	20	18.3	ug/L	92			82	109	
	Ethyl Benzene	20	18.9	ug/L	95			83	109	
	m/p-Xylenes	40	37.2	ug/L	93			82	110	
	o-Xylene	20	19.7	ug/L	99			83	109	
	Styrene	20	18.0	ug/L	90			80	111	
	Bromoform	20	18.1	ug/L	91			79	109	
	Isopropylbenzene	20	19.8	ug/L	99			83	112	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97			76	118	
	1,3-Dichlorobenzene	20	19.0	ug/L	95			82	108	
	1,4-Dichlorobenzene	20	18.4	ug/L	92			82	107	
	1,2-Dichlorobenzene	20	18.8	ug/L	94			82	109	
	1,2-Dibromo-3-Chloropropane	20	19.4	ug/L	97			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044907.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VU0927WBS02	1,2,4-Trichlorobenzene	20	19.2	ug/L	96			74	114	
	1,2,3-Trichlorobenzene	20	19.5	ug/L	98			77	113	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VU0925WBL01

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044831.D Lab Sample ID: VU0925WBL01

Date Analyzed: 09/25/2021 Time Analyzed: 13:05

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_U

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VU0925WBS01	VU0925WBS01	VU044833.D	09/25/2021
1027-MW-01	M3859-01	VU044847.D	09/25/2021
1029-MW-03A	M3859-03	VU044849.D	09/25/2021
1028-MW-02MS	M3859-08MS	VU044853.D	09/25/2021
1028-MW-02MSD	M3859-09MSD	VU044854.D	09/25/2021

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VU0925WBL02

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044858.D Lab Sample ID: VU0925WBL02

Date Analyzed: 09/26/2021 Time Analyzed: 00:22

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_U

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VU0925WBS02	VU0925WBS02	VU044859.D	09/26/2021
1033-TB092021	M3859-07	VU044864.D	09/26/2021
1031-MW-17A	M3859-05	VU044865.D	09/26/2021
1030-MW-11	M3859-04	VU044866.D	09/26/2021

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VU0927WBL01

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044887.D Lab Sample ID: VU0927WBL01

Date Analyzed: 09/27/2021 Time Analyzed: 13:48

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_U

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VU0927WBS01	VU0927WBS01	VU044889.D	09/27/2021
1030-MW-11DL	M3859-04DL	VU044902.D	09/27/2021

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VU0927WBL02

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044906.D Lab Sample ID: VU0927WBL02

Date Analyzed: 09/27/2021 Time Analyzed: 23:10

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_U

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VU0927WBS02	VU0927WBS02	VU044907.D	09/27/2021
1027-MW-01DL	M3859-01DL	VU044909.D	09/28/2021
1028-MW-02	M3859-02	VU044910.D	09/28/2021
1032-FB092021	M3859-06	VU044911.D	09/28/2021
1029-MW-03ADL	M3859-03DL	VU044912.D	09/28/2021

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044819.D BFB Injection Date: 09/24/2021

Instrument ID: MSVOA_U BFB Injection Time: 18:32

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	53.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	73.4
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	71.2 (97) 1
177	5.0 - 9.0% of mass 176	4.8 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VU044820.D	09/24/2021	19:19
VSTDICC005	VSTDICC005	VU044821.D	09/24/2021	20:06
VSTDICC020	VSTDICC020	VU044822.D	09/24/2021	20:29
VSTDICCC050	VSTDICCC050	VU044823.D	09/24/2021	20:53
VSTDICC100	VSTDICC100	VU044824.D	09/24/2021	21:16
VSTDICC150	VSTDICC150	VU044825.D	09/24/2021	21:39

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044828.D BFB Injection Date: 09/25/2021

Instrument ID: MSVOA_U BFB Injection Time: 11:46

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	54.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	5.6 (8) 1
176	95.0 - 101.0% of mass 174	68.2 (97.9) 1
177	5.0 - 9.0% of mass 176	4.8 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VU044829.D	09/25/2021	12:12
VU0925WBL01	VU0925WBL01	VU044831.D	09/25/2021	13:05
VU0925WBS01	VU0925WBS01	VU044833.D	09/25/2021	13:50
1027-MW-01	M3859-01	VU044847.D	09/25/2021	19:18
1029-MW-03A	M3859-03	VU044849.D	09/25/2021	20:05
1028-MW-02MS	M3859-08MS	VU044853.D	09/25/2021	21:38
1028-MW-02MSD	M3859-09MSD	VU044854.D	09/25/2021	22:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044856.D BFB Injection Date: 09/25/2021

Instrument ID: MSVOA_U BFB Injection Time: 23:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	5.5 (7.7) 1
176	95.0 - 101.0% of mass 174	67.6 (95.5) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VU044857.D	09/25/2021	23:35
VU0925WBL02	VU0925WBL02	VU044858.D	09/26/2021	00:22
VU0925WBS02	VU0925WBS02	VU044859.D	09/26/2021	00:46
1033-TB092021	M3859-07	VU044864.D	09/26/2021	02:43
1031-MW-17A	M3859-05	VU044865.D	09/26/2021	03:07
1030-MW-11	M3859-04	VU044866.D	09/26/2021	03:30

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044884.D BFB Injection Date: 09/27/2021

Instrument ID: MSVOA_U BFB Injection Time: 09:13

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	54.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.3
175	5.0 - 9.0% of mass 174	5.6 (7.7) 1
176	95.0 - 101.0% of mass 174	70 (96.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VU044885.D	09/27/2021	12:20
VU0927WBL01	VU0927WBL01	VU044887.D	09/27/2021	13:48
VU0927WBS01	VU0927WBS01	VU044889.D	09/27/2021	15:21
1030-MW-11DL	M3859-04DL	VU044902.D	09/27/2021	20:26

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044904.D BFB Injection Date: 09/27/2021

Instrument ID: MSVOA_U BFB Injection Time: 21:37

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	52.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	71.4
175	5.0 - 9.0% of mass 174	5.4 (7.6) 1
176	95.0 - 101.0% of mass 174	69.5 (97.4) 1
177	5.0 - 9.0% of mass 176	4.1 (6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VU044905.D	09/27/2021	22:00
VU0927WBL02	VU0927WBL02	VU044906.D	09/27/2021	23:10
VU0927WBS02	VU0927WBS02	VU044907.D	09/27/2021	23:33
1027-MW-01DL	M3859-01DL	VU044909.D	09/28/2021	00:20
1028-MW-02	M3859-02	VU044910.D	09/28/2021	00:44
1032-FB092021	M3859-06	VU044911.D	09/28/2021	01:07
1029-MW-03ADL	M3859-03DL	VU044912.D	09/28/2021	01:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044829.D Date Analyzed: 09/25/2021

Instrument ID: MSVOA_U Time Analyzed: 12:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	159253	5.38	282895	6.25	269865	9.42
UPPER LIMIT	318506	5.878	565790	6.753	539730	9.92
LOWER LIMIT	79626.5	4.878	141448	5.753	134933	8.92
EPA SAMPLE NO.						
1027-MW-01	172596	5.38	300396	6.25	280500	9.42
1029-MW-03A	175911	5.38	305422	6.25	289265	9.42
1028-MW-02MS	138056	5.38	255443	6.25	249499	9.42
1028-MW-02MSD	148110	5.38	270542	6.25	256005	9.42
VU0925WBL01	181791	5.38	322727	6.25	301046	9.42
VU0925WBS01	145265	5.38	263524	6.25	250123	9.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044829.D Date Analyzed: 09/25/2021

Instrument ID: MSVOA_U Time Analyzed: 12:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	137105	11.816				
UPPER LIMIT	274210	12.316				
LOWER LIMIT	68552.5	11.316				
EPA SAMPLE NO.						
1027-MW-01	121956	11.82				
1029-MW-03A	129639	11.82				
1028-MW-02MS	131417	11.82				
1028-MW-02MSD	127091	11.82				
VU0925WBL01	135765	11.82				
VU0925WBS01	123767	11.82				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044857.D Date Analyzed: 09/25/2021

Instrument ID: MSVOA_U Time Analyzed: 23:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	150134	5.38	282366	6.25	264988	9.42
UPPER LIMIT	300268	5.879	564732	6.753	529976	9.92
LOWER LIMIT	75067	4.879	141183	5.753	132494	8.92
EPA SAMPLE NO.						
1030-MW-11	182863	5.38	321388	6.25	301230	9.42
1031-MW-17A	181870	5.38	320413	6.25	296647	9.42
1033-TB092021	178395	5.38	314089	6.25	293216	9.42
VU0925WBL02	184672	5.38	326106	6.25	306497	9.42
VU0925WBS02	142109	5.38	265456	6.25	248011	9.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044857.D Date Analyzed: 09/25/2021

Instrument ID: MSVOA_U Time Analyzed: 23:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	127814	11.816				
UPPER LIMIT	255628	12.316				
LOWER LIMIT	63907	11.316				
EPA SAMPLE NO.						
1030-MW-11	136939	11.82				
1031-MW-17A	133611	11.82				
1033-TB092021	131605	11.82				
VU0925WBL02	133823	11.82				
VU0925WBS02	118157	11.82				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044885.D Date Analyzed: 09/27/2021

Instrument ID: MSVOA_U Time Analyzed: 12:20

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	157227	5.38	277592	6.25	264605	9.42
UPPER LIMIT	314454	5.878	555184	6.753	529210	9.923
LOWER LIMIT	78613.5	4.878	138796	5.753	132303	8.923
EPA SAMPLE NO.						
1030-MW-11DL	203141	5.38	360501	6.25	335220	9.42
VU0927WBL01	197853	5.38	351472	6.25	323636	9.42
VU0927WBS01	149448	5.38	267673	6.25	255569	9.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044885.D Date Analyzed: 09/27/2021

Instrument ID: MSVOA_U Time Analyzed: 12:20

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	137410	11.819				
UPPER LIMIT	274820	12.319				
LOWER LIMIT	68705	11.319				
EPA SAMPLE NO.						
1030-MW-11DL	161789	11.82				
VU0927WBL01	151171	11.82				
VU0927WBS01	137448	11.82				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

 # Column used to flag values outside QC limits with an asterisk.
*** Values outside of QC limits.**

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044905.D Date Analyzed: 09/27/2021

Instrument ID: MSVOA_U Time Analyzed: 22:00

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	141418	5.38	259974	6.25	248033	9.42
UPPER LIMIT	282836	5.879	519948	6.753	496066	9.92
LOWER LIMIT	70709	4.879	129987	5.753	124017	8.92
EPA SAMPLE NO.						
1027-MW-01DL	201930	5.38	348857	6.25	318446	9.42
1028-MW-02	197689	5.38	348544	6.25	316990	9.42
1029-MW-03ADL	199198	5.38	347297	6.25	319540	9.42
1032-FB092021	197567	5.38	345295	6.25	308978	9.42
VU0927WBL02	204739	5.38	358680	6.25	331743	9.42
VU0927WBS02	142658	5.38	260838	6.25	242161	9.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG NO.: M3859

Lab File ID: VU044905.D Date Analyzed: 09/27/2021

Instrument ID: MSVOA_U Time Analyzed: 22:00

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	133437	11.816				
UPPER LIMIT	266874	12.316				
LOWER LIMIT	66718.5	11.316				
EPA SAMPLE NO.						
1027-MW-01DL	147973	11.82				
1028-MW-02	148783	11.82				
1029-MW-03ADL	152312	11.82				
1032-FB092021	142789	11.82				
VU0927WBL02	154892	11.82				
VU0927WBS02	120641	11.82				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1027-MW-01	SDG No.:	M3859
Lab Sample ID:	M3859-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044847.D	1		09/25/21 19:18	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	7.20		0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	10.0		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.20		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	95.4		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	110		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1027-MW-01	SDG No.:	M3859
Lab Sample ID:	M3859-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044847.D	1		09/25/21 19:18	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1500	E	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		78 - 117	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	50.5		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		83 - 123	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	5.378			
540-36-3	1,4-Difluorobenzene	300000	6.253			
3114-55-4	Chlorobenzene-d5	281000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	122000	11.815			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1027-MW-01	SDG No.:	M3859
Lab Sample ID:	M3859-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044847.D	1		09/25/21 19:18	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044847.D
Acq On : 25 Sep 2021 19:18
Operator : SY/MD
Sample : M3859-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1027-MW-01

Quant Time: Sep 27 01:34:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

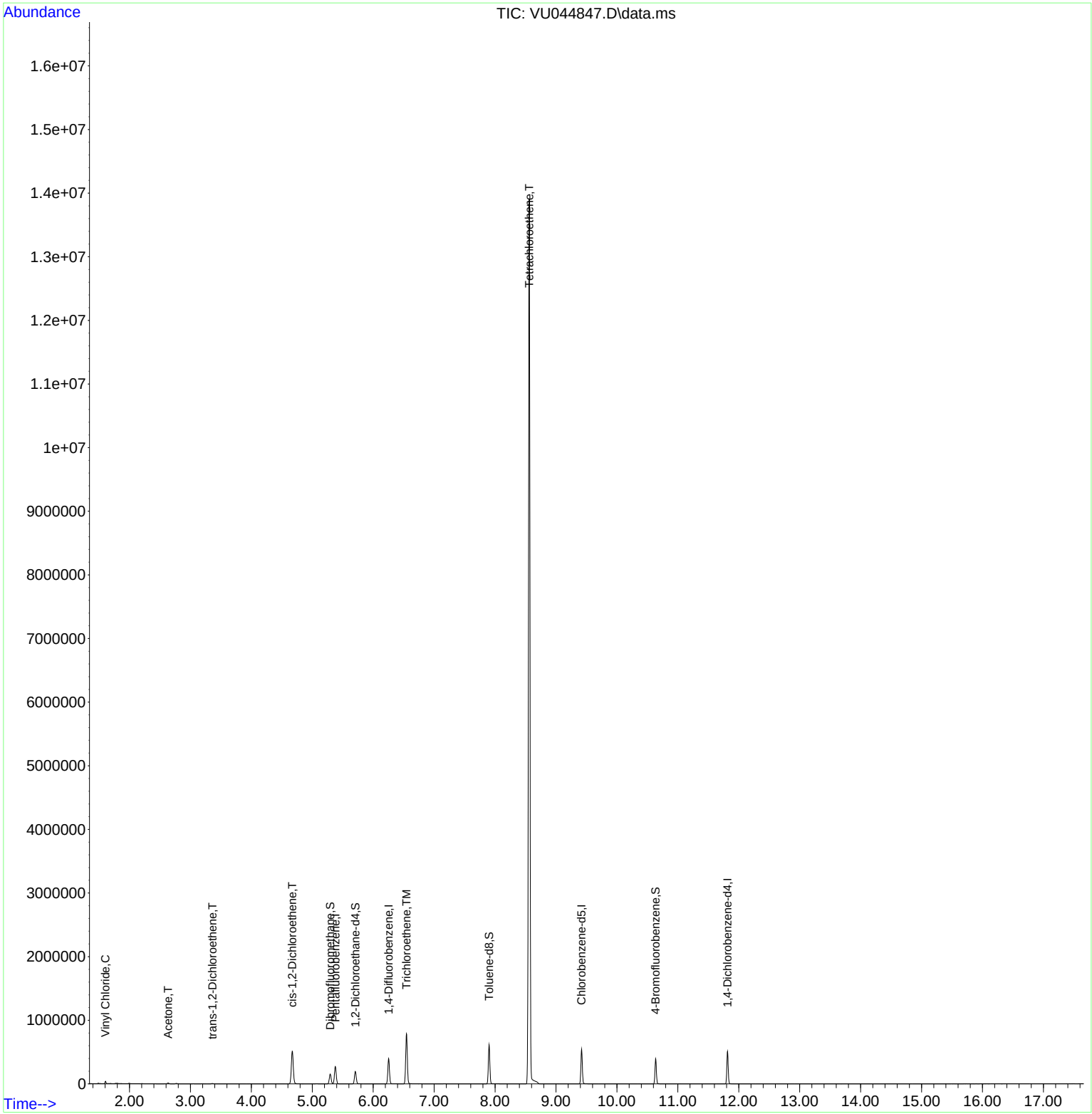
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	172596	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	300396	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	280500	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	121956	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	145983	48.463	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.920%		
35) Dibromofluoromethane	5.295	113	99142	48.109	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.220%		
50) Toluene-d8	7.902	98	393068	50.503	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.000%		
62) 4-Bromofluorobenzene	10.635	95	126893	43.896	ug/l	0.00
Spiked Amount 50.000			Recovery =	87.800%		
Target Compounds						Qvalue
4) Vinyl Chloride	1.607	62	21210	7.244	ug/l	100
16) Acetone	2.633	43	16988	9.998	ug/l	100
21) trans-1,2-Dichloroethene	3.362	96	2619	1.177	ug/l	89
27) cis-1,2-Dichloroethene	4.671	96	258284	95.444	ug/l	90
44) Trichloroethene	6.546	130	248141	106.249	ug/l	96
64) Tetrachloroethene	8.562	164	2849676	1498.813	ug/l	98

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

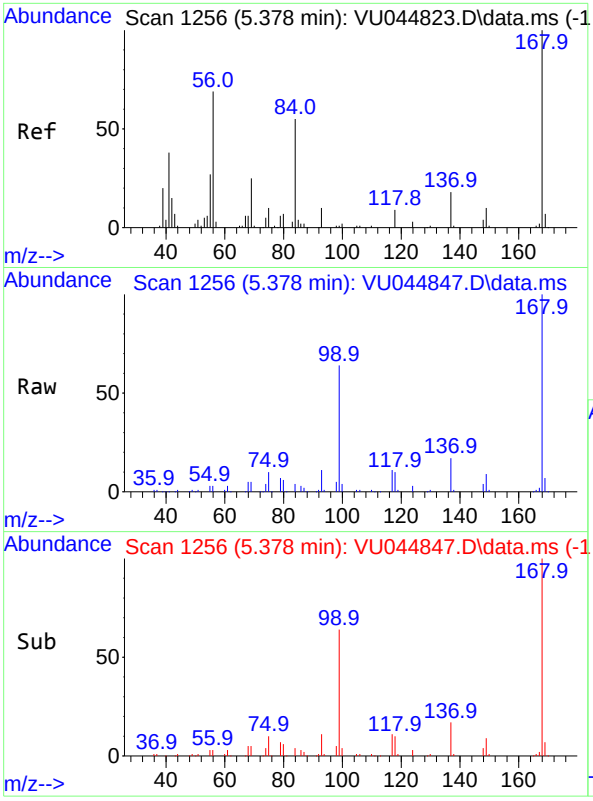
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044847.D
Acq On : 25 Sep 2021 19:18
Operator : SY/MD
Sample : M3859-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

Quant Time: Sep 27 01:34:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



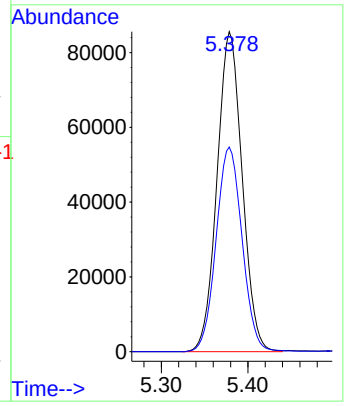
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

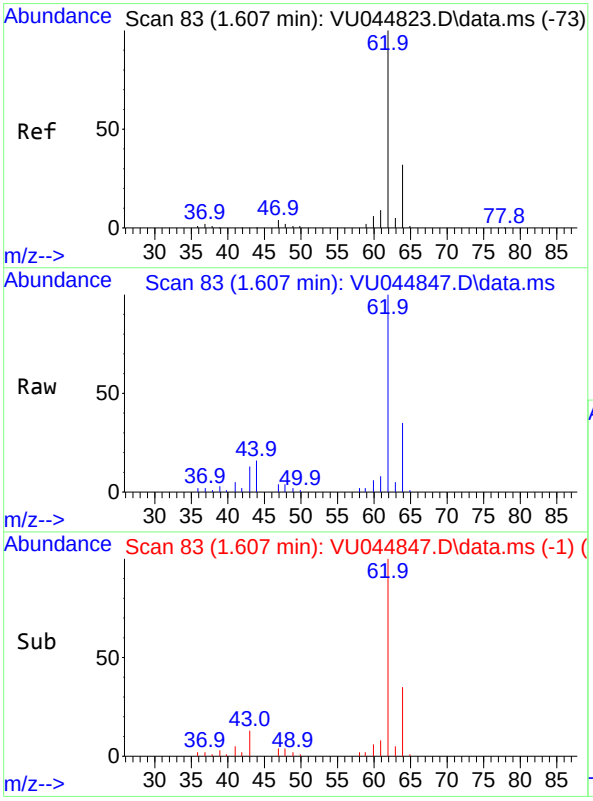


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion:168 Resp: 172596

Ion	Ratio	Lower	Upper
168	100		
99	63.9	51.4	77.0

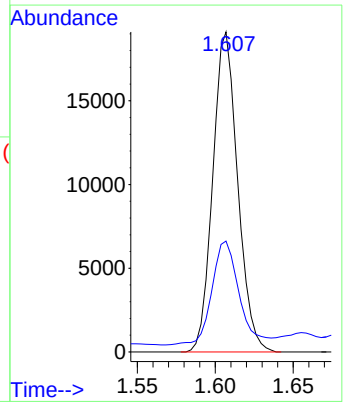




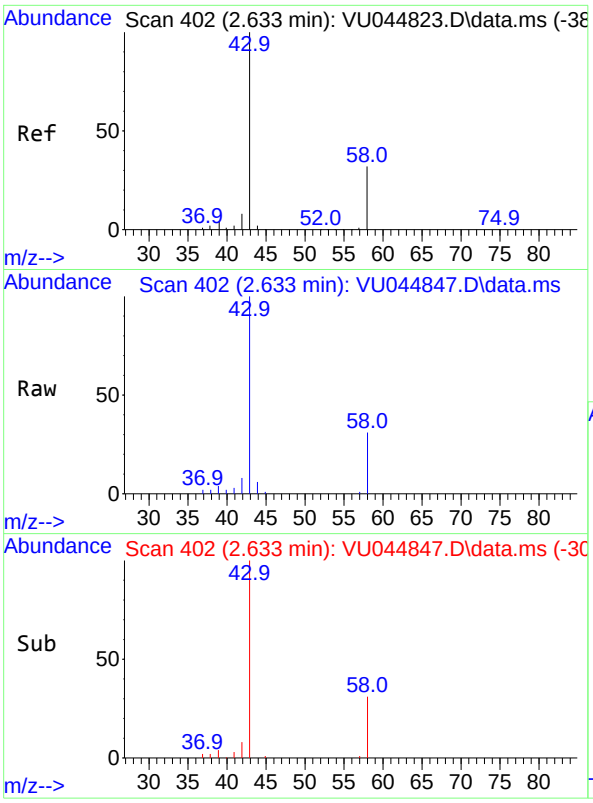
#4
Vinyl Chloride
Concen: 7.244 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion: 62 Resp: 21210

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.6	38.4



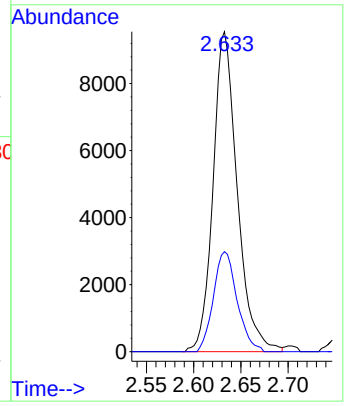
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

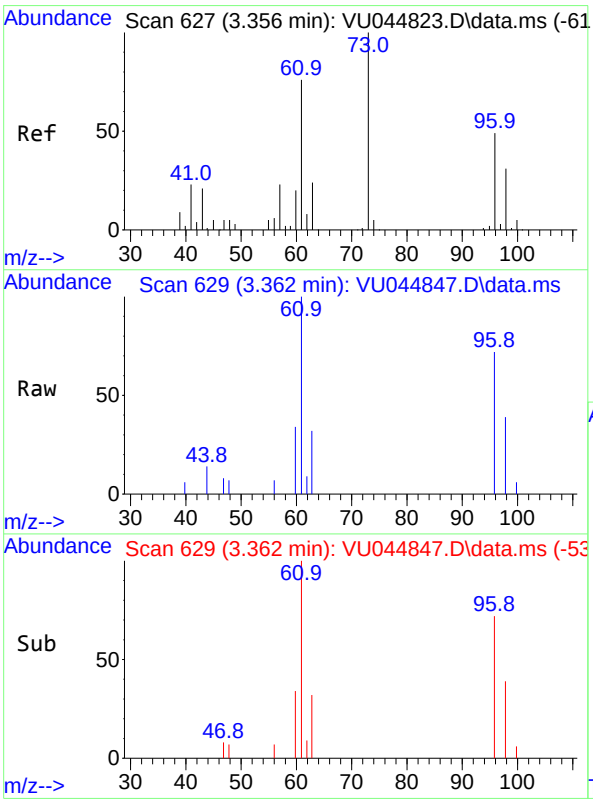


#16
Acetone
Concen: 9.998 ug/l
RT: 2.633 min Scan# 402
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion: 43 Resp: 16988

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.2	37.8

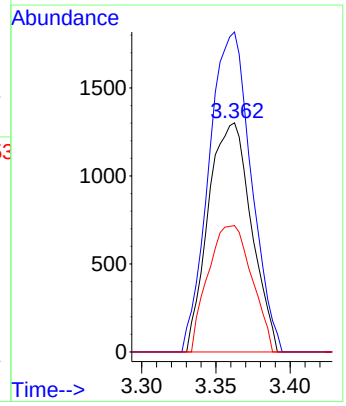




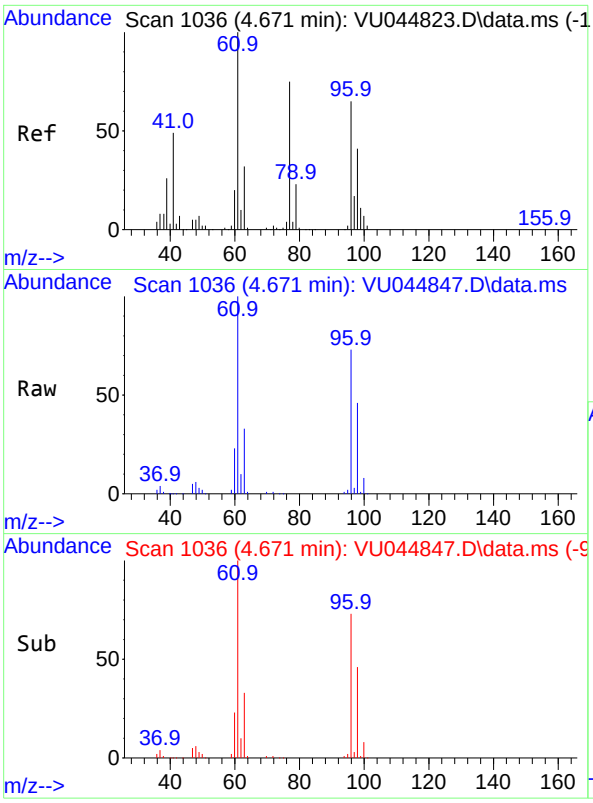
#21
trans-1,2-Dichloroethene
Concen: 1.177 ug/l
RT: 3.362 min Scan# 629
Delta R.T. 0.006 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion: 96 Resp: 2619

Ion	Ratio	Lower	Upper
96	100		
61	139.6	123.2	184.8
98	55.1	51.0	76.6



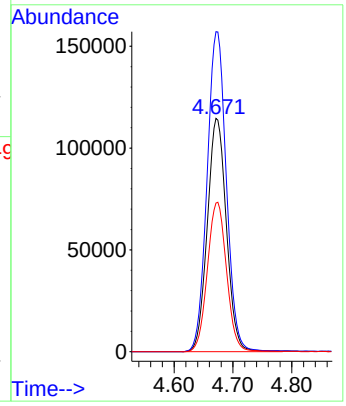
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

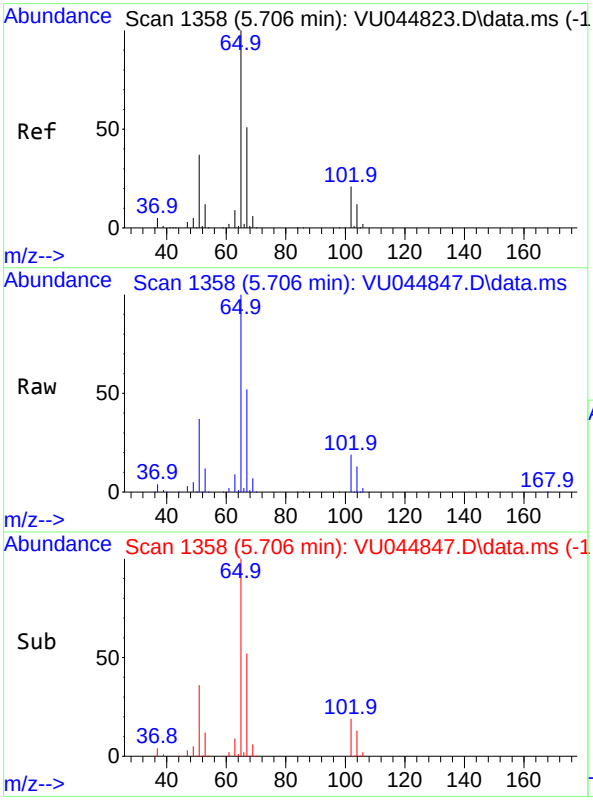


#27
cis-1,2-Dichloroethene
Concen: 95.444 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion: 96 Resp: 258284

Ion	Ratio	Lower	Upper
96	100		
61	138.4	0.0	313.4
98	64.4	0.0	127.0

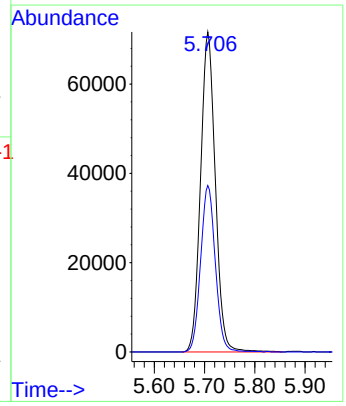




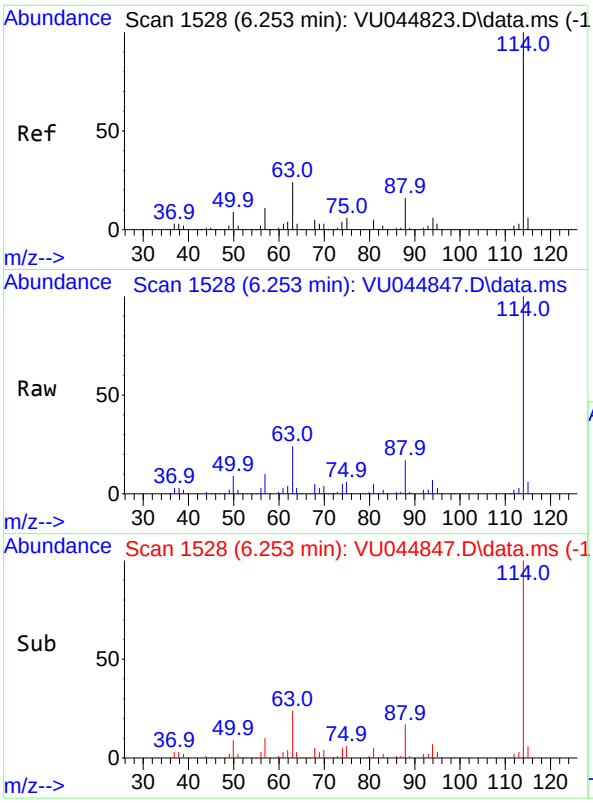
#33
1,2-Dichloroethane-d4
Concen: 48.463 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion: 65 Resp: 145983

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.8



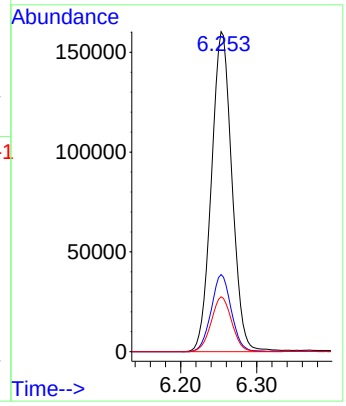
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

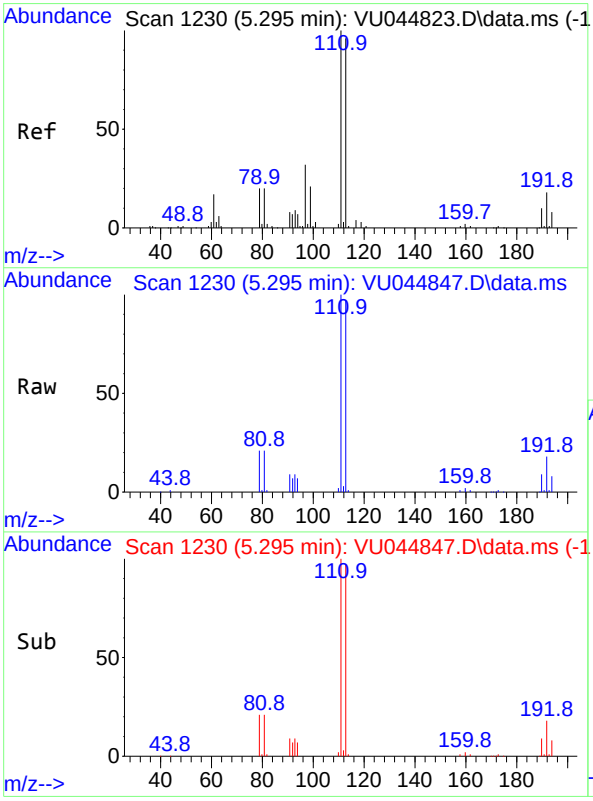


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion:114 Resp: 300396

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	47.8
88	17.2	0.0	32.8

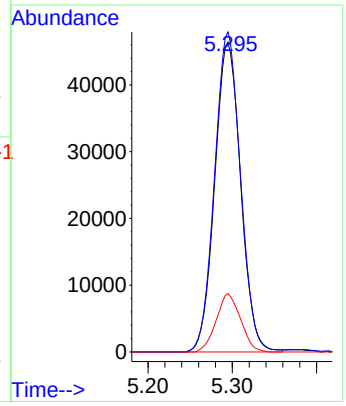




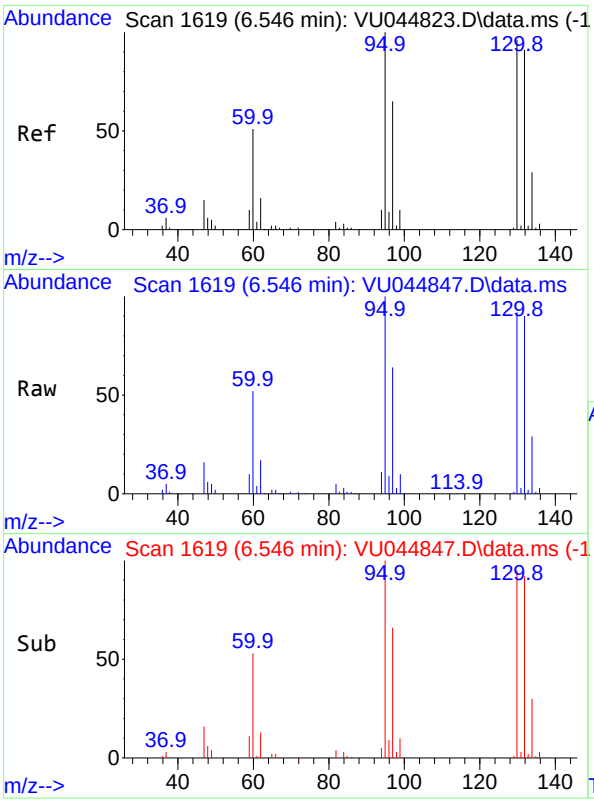
#35
Dibromofluoromethane
Concen: 48.109 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion:113 Resp: 99142

Ion	Ratio	Lower	Upper
113	100		
111	103.1	84.1	126.1
192	17.7	14.8	22.2



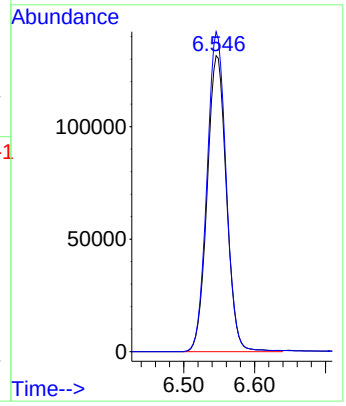
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

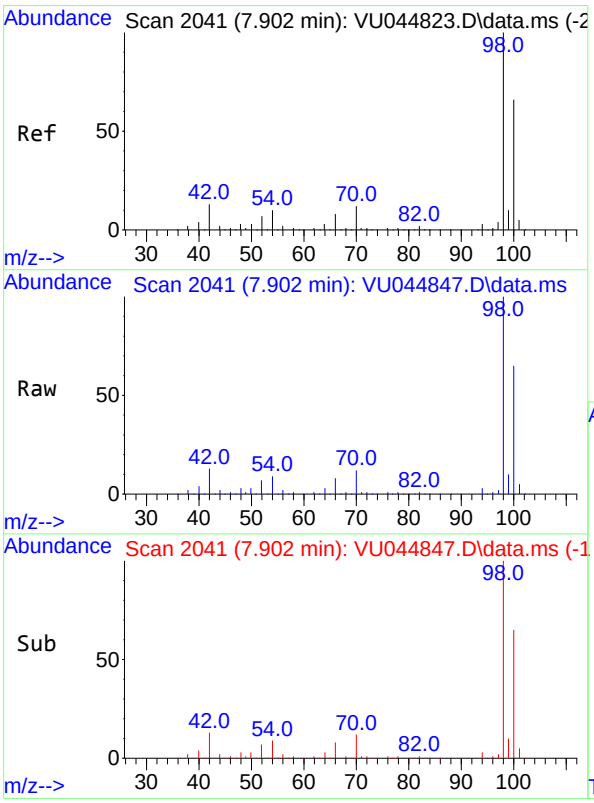


#44
Trichloroethene
Concen: 106.249 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion:130 Resp: 248141

Ion	Ratio	Lower	Upper
130	100		
95	108.1	0.0	209.0

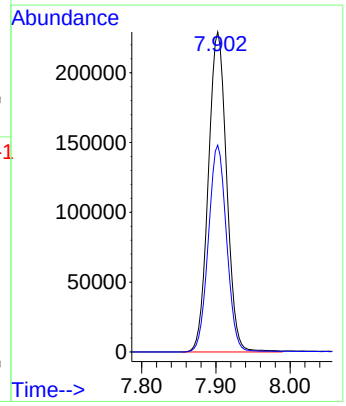




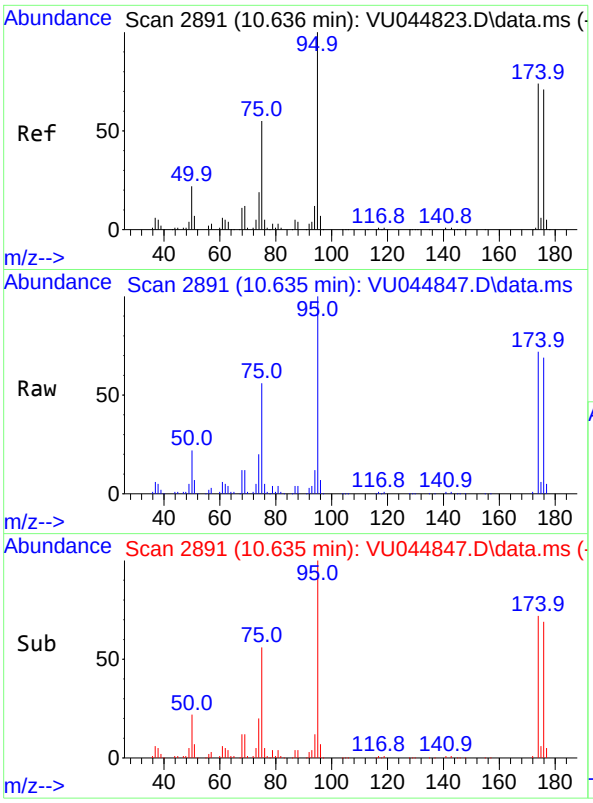
#50
Toluene-d8
Concen: 50.503 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion: 98 Resp: 393068

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.5	78.7



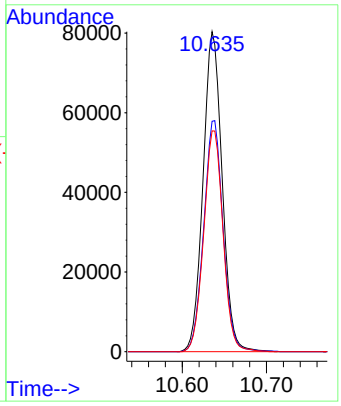
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

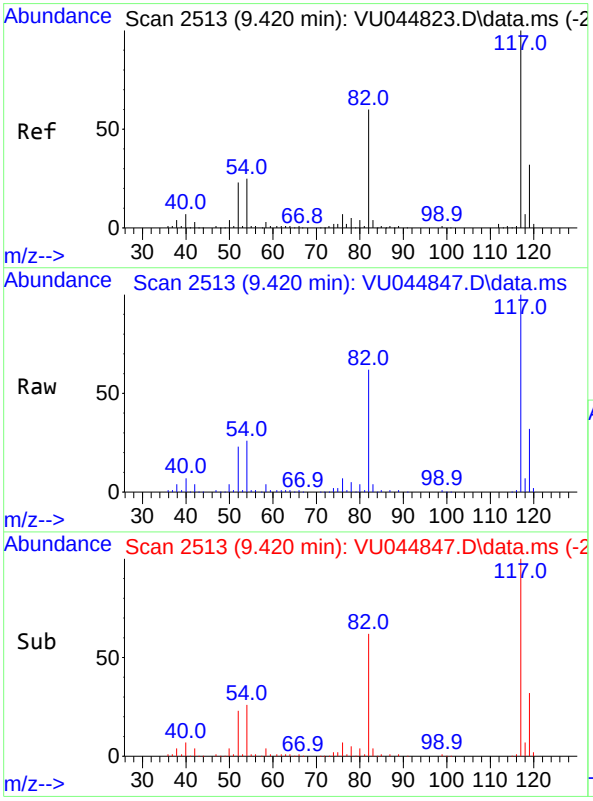


#62
4-Bromofluorobenzene
Concen: 43.896 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion: 95 Resp: 126893

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	146.6
176	69.7	0.0	141.2

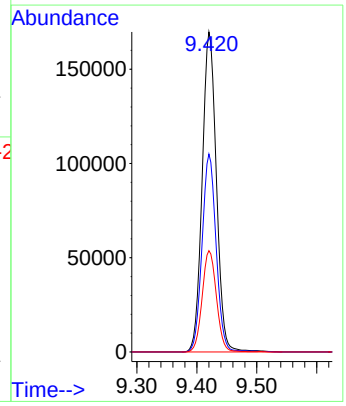




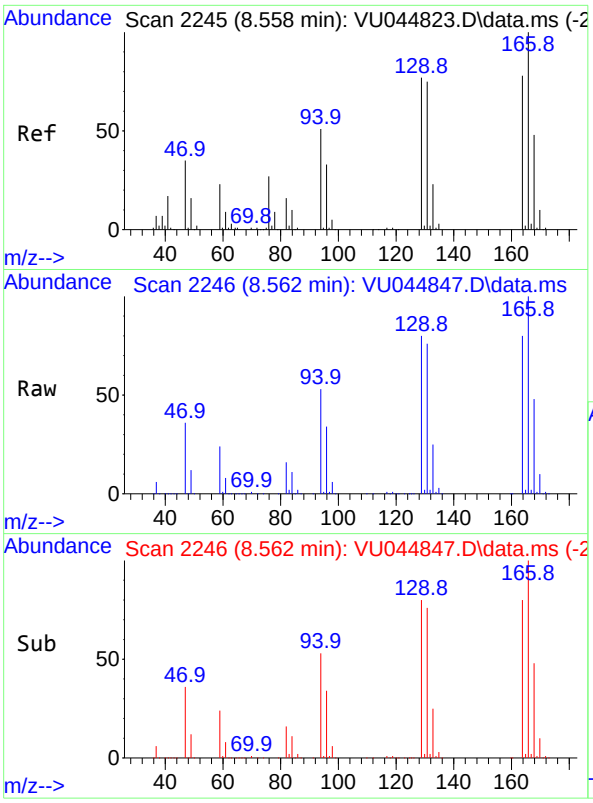
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion:117 Resp: 280500

Ion	Ratio	Lower	Upper
117	100		
82	61.8	47.8	71.8
119	31.6	25.8	38.6



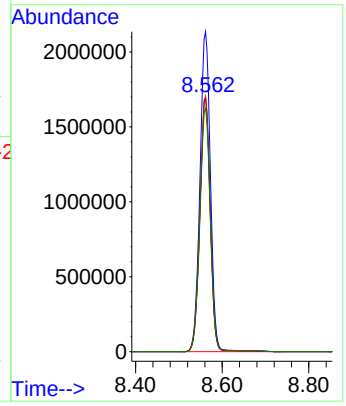
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

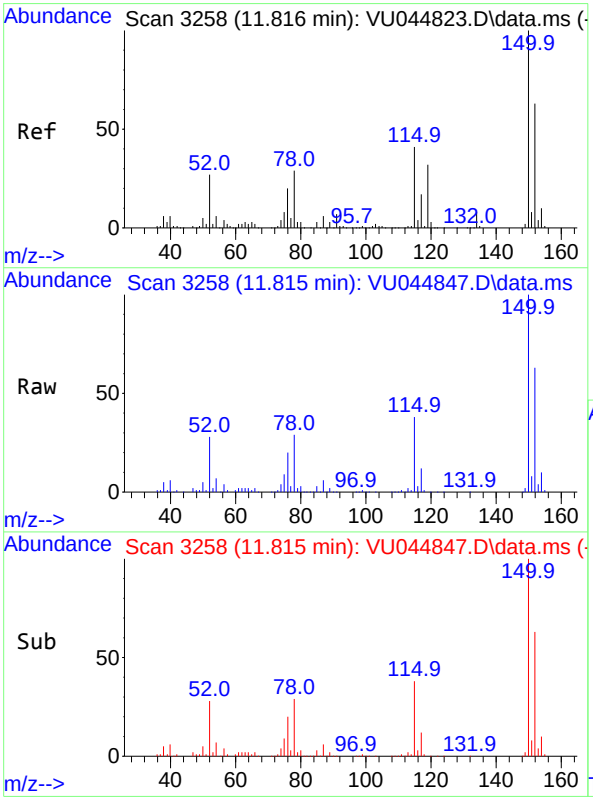


#64
Tetrachloroethene
Concen: 1498.813 ug/l
RT: 8.562 min Scan# 2246
Delta R.T. 0.003 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion:164 Resp: 2849676

Ion	Ratio	Lower	Upper
164	100		
166	125.5	102.8	154.2
129	100.0	79.4	119.2
131	95.5	77.4	116.2

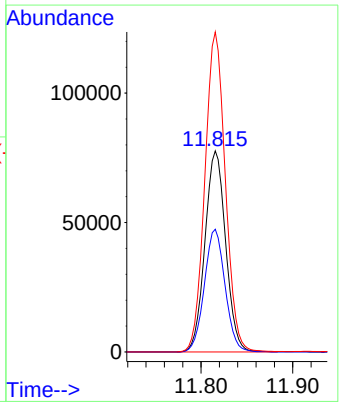




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044847.D
Acq: 25 Sep 2021 19:18

Tgt Ion:152 Resp: 121956

Ion	Ratio	Lower	Upper
152	100		
115	60.9	43.5	130.7
150	157.2	0.0	350.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044847.D
Acq On : 25 Sep 2021 19:18
Operator : SY/MD
Sample : M3859-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1027-MW-01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044847.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.671	1013	1036	1070	rBV	513388	1161442	4.95%	3.688%
2	5.295	1215	1230	1243	rBV	155633	326814	1.39%	1.038%
3	5.378	1243	1256	1277	rVB	271205	554257	2.36%	1.760%
4	5.706	1342	1358	1376	rBV	195535	396785	1.69%	1.260%
5	6.253	1513	1528	1546	rBV	399026	744566	3.17%	2.364%
6	6.546	1604	1619	1653	rBV	788119	1473543	6.28%	4.679%
7	7.902	2026	2041	2059	rBV	615026	1050924	4.48%	3.337%
8	8.562	2229	2246	2300	rBV	13906561	23466423	100.00%	74.507%
9	9.420	2500	2513	2551	rBV	545058	896086	3.82%	2.845%
10	10.635	2879	2891	2917	rBV	395391	626959	2.67%	1.991%
11	11.815	3245	3258	3277	rBV	509858	797811	3.40%	2.533%

Sum of corrected areas: 31495610

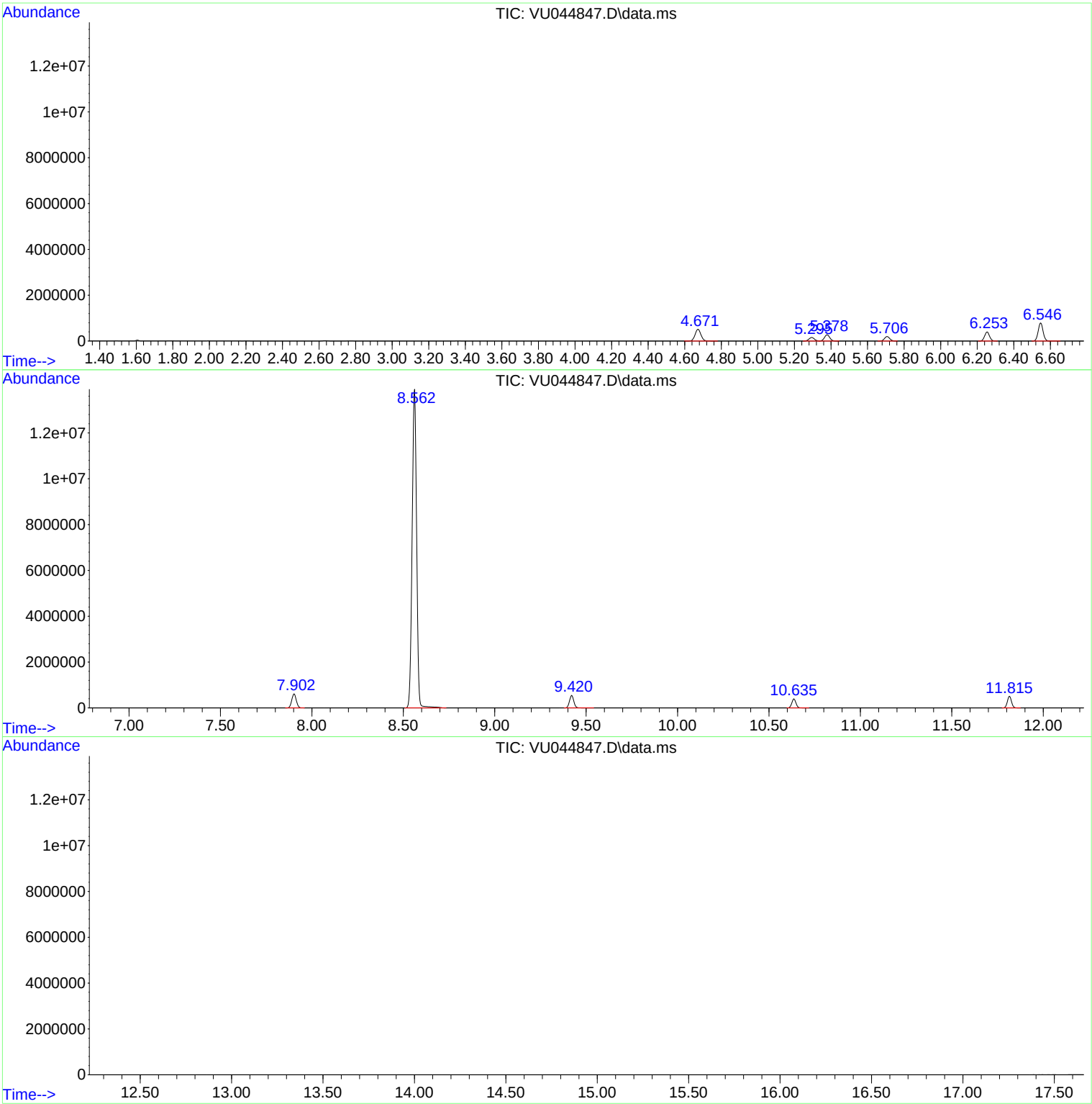
Sample Results: **VU044847.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044847.D
Acq On : 25 Sep 2021 19:18
Operator : SY/MD
Sample : M3859-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044847.D
Acq On : 25 Sep 2021 19:18
Operator : SY/MD
Sample : M3859-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044847.D
Acq On : 25 Sep 2021 19:18
Operator : SY/MD
Sample : M3859-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1027-MW-01DL	SDG No.:	M3859
Lab Sample ID:	M3859-01DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044909.D	20		09/28/21 00:20	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.0	UD	4.60	20.0	ug/L
74-87-3	Chloromethane	20.0	UD	4.00	20.0	ug/L
75-01-4	Vinyl Chloride	20.0	UD	3.90	20.0	ug/L
74-83-9	Bromomethane	100	UDQ	17.3	100	ug/L
75-00-3	Chloroethane	20.0	UD	7.00	20.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	UD	5.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0	UD	4.30	20.0	ug/L
75-35-4	1,1-Dichloroethene	20.0	UD	5.20	20.0	ug/L
67-64-1	Acetone	100	UD	32.2	100	ug/L
75-15-0	Carbon Disulfide	20.0	UD	5.00	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	UD	4.40	20.0	ug/L
79-20-9	Methyl Acetate	20.0	UD	9.40	20.0	ug/L
75-09-2	Methylene Chloride	20.0	UD	3.60	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	UD	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	UD	4.20	20.0	ug/L
110-82-7	Cyclohexane	100	UD	26.1	100	ug/L
78-93-3	2-Butanone	100	UD	17.9	100	ug/L
56-23-5	Carbon Tetrachloride	20.0	UD	5.50	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	110	D	4.40	20.0	ug/L
74-97-5	Bromochloromethane	20.0	UD	5.20	20.0	ug/L
67-66-3	Chloroform	20.0	UD	5.30	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	UD	3.90	20.0	ug/L
108-87-2	Methylcyclohexane	20.0	UD	2.80	20.0	ug/L
71-43-2	Benzene	20.0	UD	3.60	20.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	UD	5.00	20.0	ug/L
79-01-6	Trichloroethene	110	D	3.50	20.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	UD	3.40	20.0	ug/L
75-27-4	Bromodichloromethane	20.0	UD	4.00	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	UD	17.3	100	ug/L
108-88-3	Toluene	20.0	UD	4.30	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	20.0	UD	3.60	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	UD	3.30	20.0	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1027-MW-01DL	SDG No.:	M3859
Lab Sample ID:	M3859-01DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044909.D	20		09/28/21 00:20	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.0	UD	4.80	20.0	ug/L
591-78-6	2-Hexanone	100	UD	18.4	100	ug/L
124-48-1	Dibromochloromethane	20.0	UD	3.50	20.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	UD	3.30	20.0	ug/L
127-18-4	Tetrachloroethene	1400	D	3.30	20.0	ug/L
108-90-7	Chlorobenzene	20.0	UD	3.30	20.0	ug/L
100-41-4	Ethyl Benzene	20.0	UD	3.60	20.0	ug/L
179601-23-1	m/p-Xylenes	40.0	UD	6.50	40.0	ug/L
95-47-6	o-Xylene	20.0	UD	3.70	20.0	ug/L
100-42-5	Styrene	20.0	UD	3.30	20.0	ug/L
75-25-2	Bromoform	20.0	UD	3.80	20.0	ug/L
98-82-8	Isopropylbenzene	20.0	UD	4.60	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	UD	5.90	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	UD	3.90	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	20.0	UD	3.90	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	UD	3.80	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.0	UD	9.50	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	UD	6.10	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0	UD	6.90	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.9		78 - 117	88%	SPK: 50
1868-53-7	Dibromofluoromethane	44.6		75 - 124	89%	SPK: 50
2037-26-5	Toluene-d8	48.3		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		83 - 123	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	202000	5.375			
540-36-3	1,4-Difluorobenzene	349000	6.253			
3114-55-4	Chlorobenzene-d5	318000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	148000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1027-MW-01DL	SDG No.:	M3859
Lab Sample ID:	M3859-01DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044909.D	20		09/28/21 00:20	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044909.D
Acq On : 28 Sep 2021 00:20
Operator : SY/MD
Sample : M3859-01DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1027-MW-01DL

Quant Time: Sep 28 06:30:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

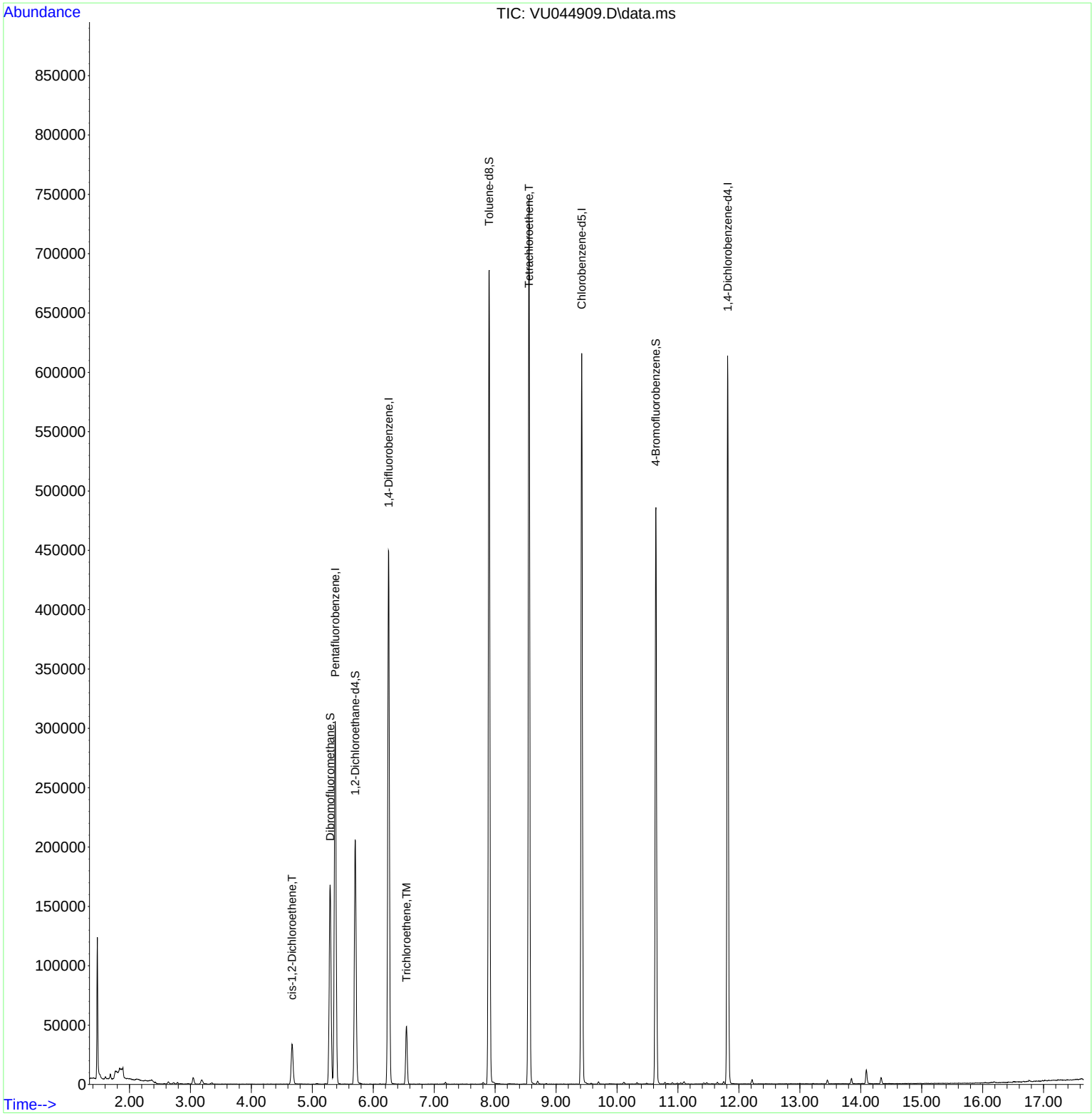
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.375	168	201930	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	348857	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	318446	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	147973	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	154858	43.941	ug/l	0.00
Spiked Amount 50.000			Recovery =	87.880%		
35) Dibromofluoromethane	5.292	113	106822	44.635	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.280%		
50) Toluene-d8	7.903	98	436455	48.288	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.580%		
62) 4-Bromofluorobenzene	10.636	95	164172	48.902	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.800%		
Target Compounds						Qvalue
27) cis-1,2-Dichloroethene	4.668	96	16707	5.277	ug/l	91
44) Trichloroethene	6.546	130	15540	5.730	ug/l	92
64) Tetrachloroethene	8.555	164	152598	70.696	ug/l	99

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

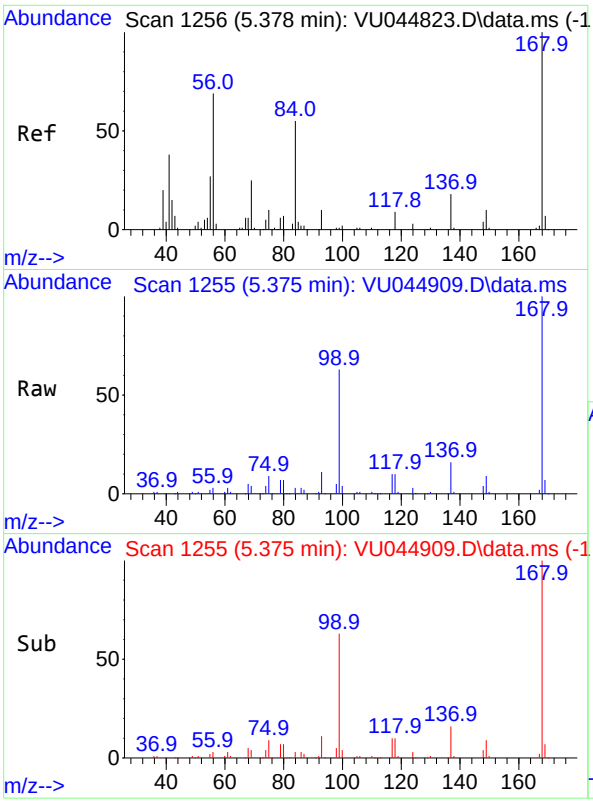
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044909.D
Acq On : 28 Sep 2021 00:20
Operator : SY/MD
Sample : M3859-01DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01DL

Quant Time: Sep 28 06:30:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



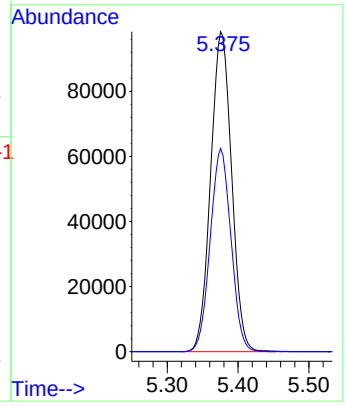
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01DL

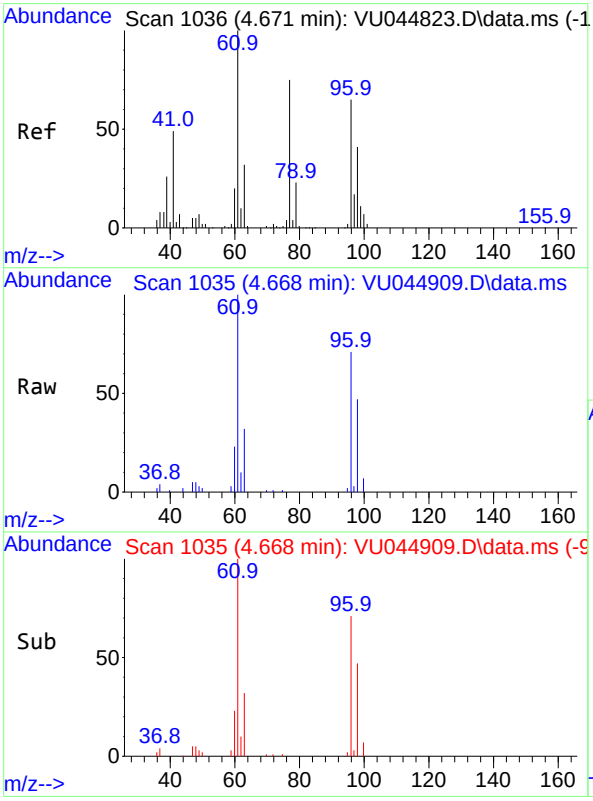


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.003 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion:168 Resp: 201930

Ion	Ratio	Lower	Upper
168	100		
99	63.4	51.4	77.0

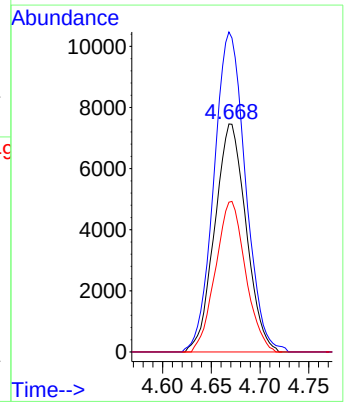




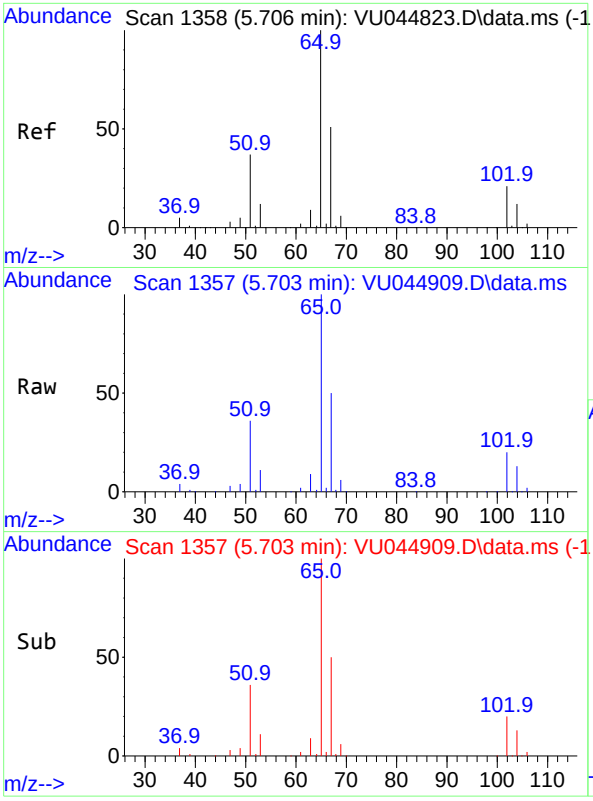
#27
cis-1,2-Dichloroethene
Concen: 5.277 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion: 96 Resp: 16707

Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	313.4
98	63.4	0.0	127.0



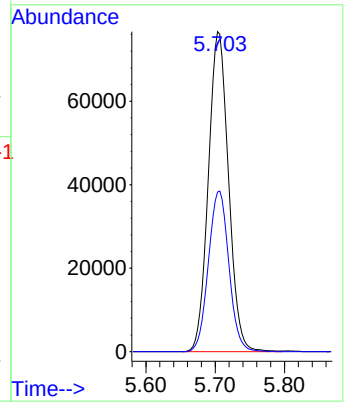
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01DL

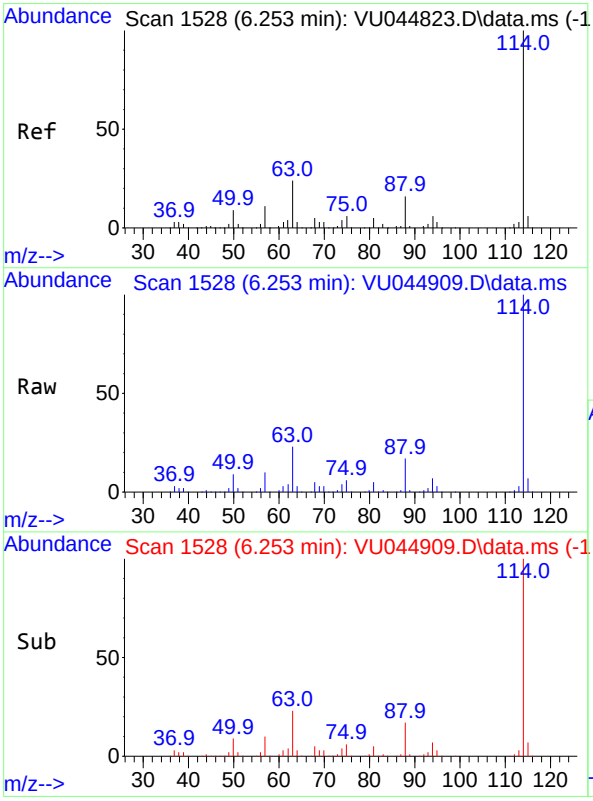


#33
1,2-Dichloroethane-d4
Concen: 43.941 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion: 65 Resp: 154858

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	104.8

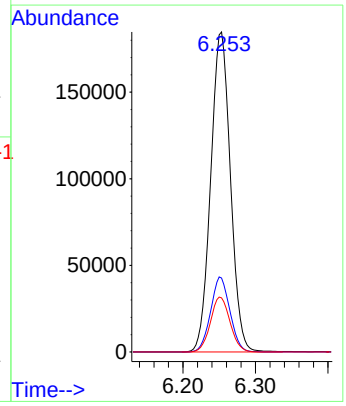




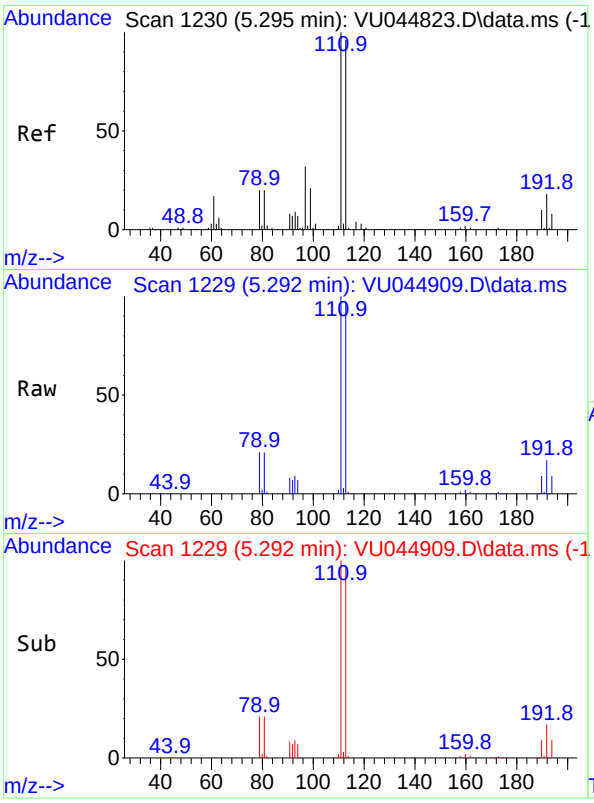
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion:114 Resp: 348857

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	47.8
88	16.9	0.0	32.8



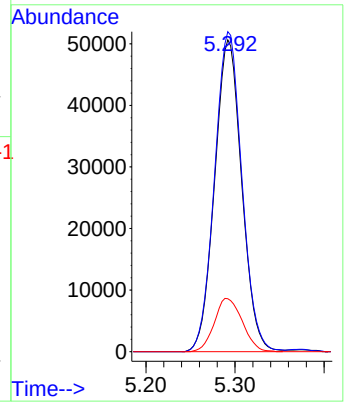
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01DL

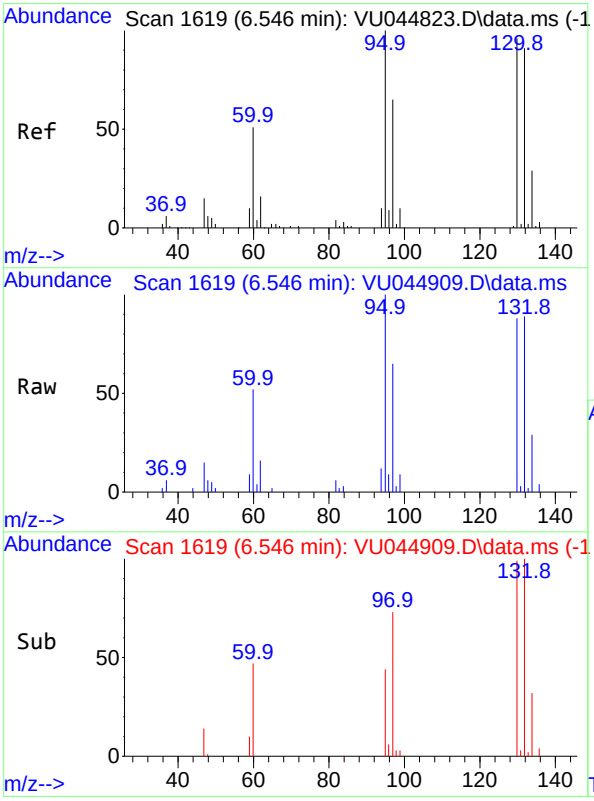


#35
Dibromofluoromethane
Concen: 44.635 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion:113 Resp: 106822

Ion	Ratio	Lower	Upper
113	100		
111	103.6	84.1	126.1
192	17.6	14.8	22.2

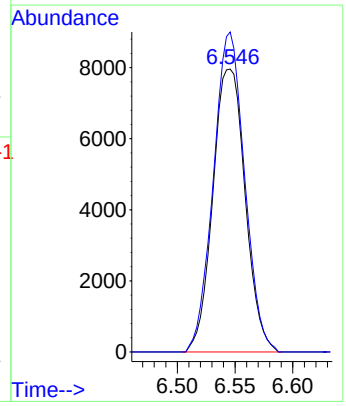




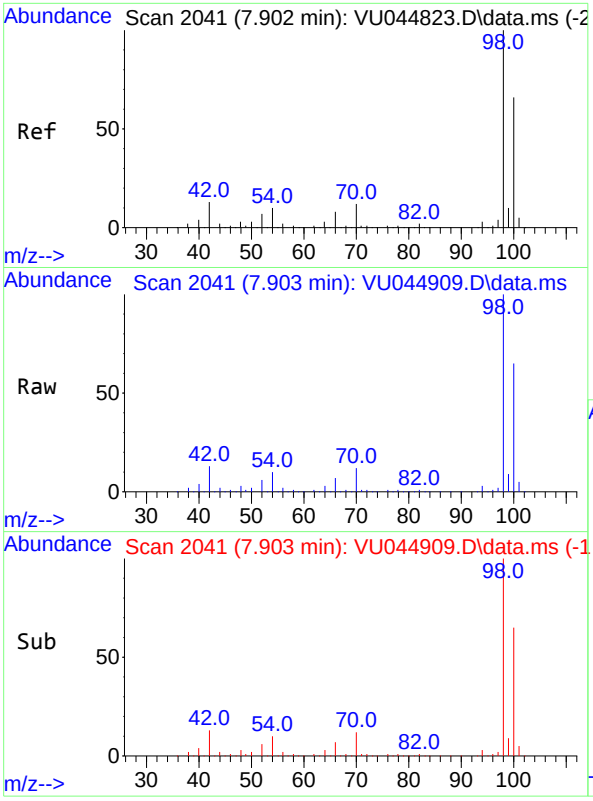
#44
Trichloroethene
Concen: 5.730 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion:130 Resp: 15540

Ion	Ratio	Lower	Upper
130	100		
95	113.1	0.0	209.0



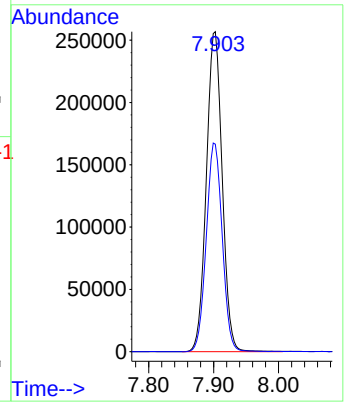
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01DL

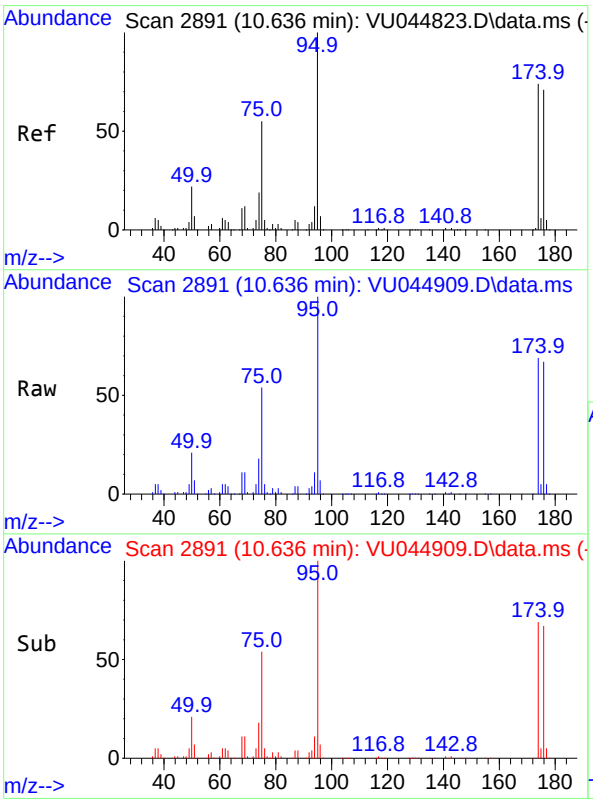


#50
Toluene-d8
Concen: 48.288 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion: 98 Resp: 436455

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.5	78.7

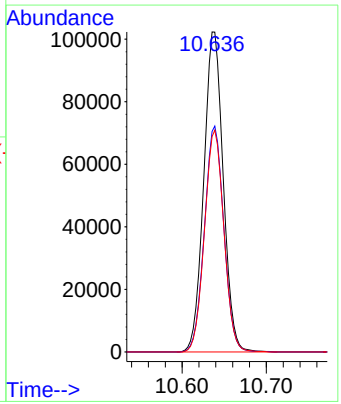




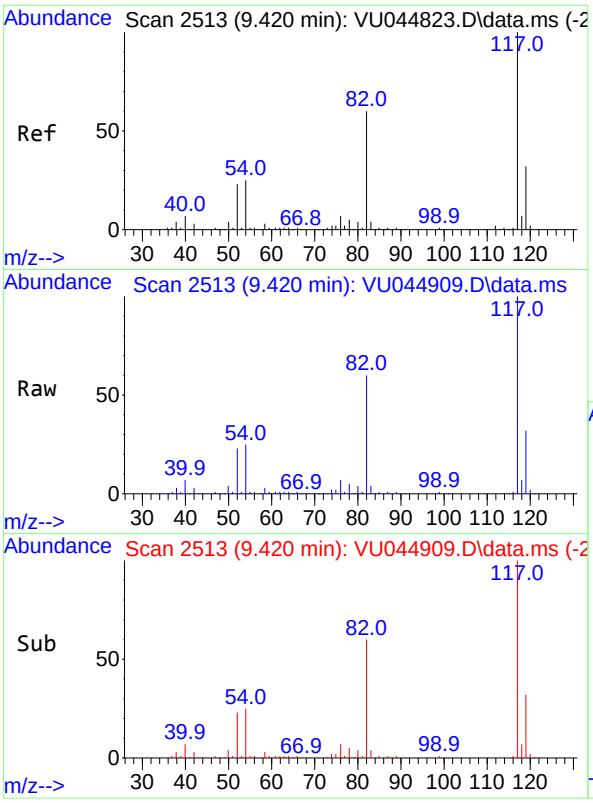
#62
4-Bromofluorobenzene
Concen: 48.902 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion: 95 Resp: 164172

Ion	Ratio	Lower	Upper
95	100		
174	70.5	0.0	146.6
176	69.2	0.0	141.2



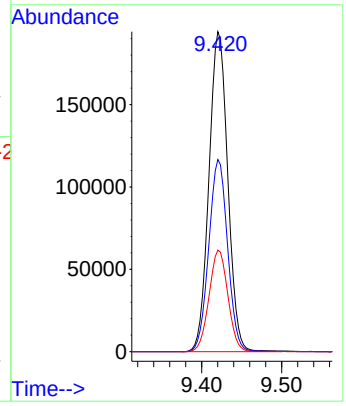
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01DL

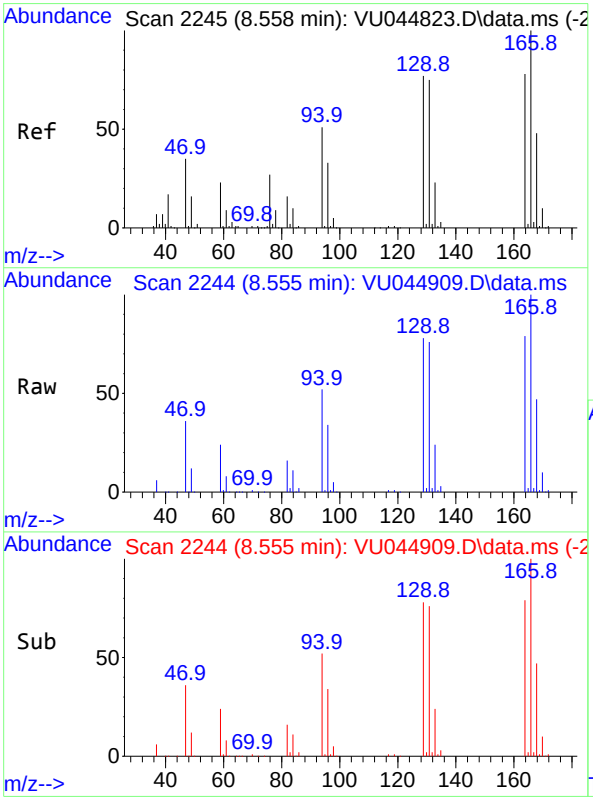


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion:117 Resp: 318446

Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.8	71.8
119	31.8	25.8	38.6

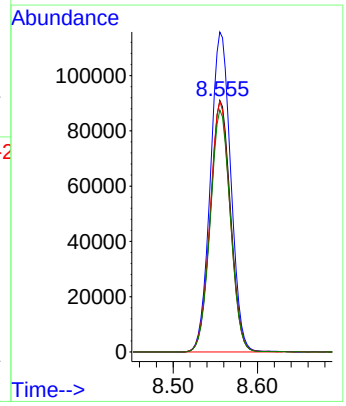




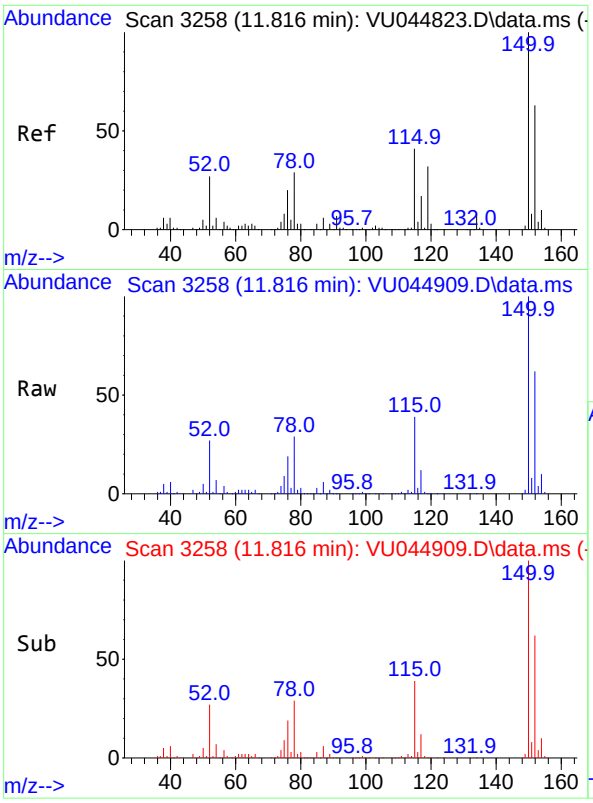
#64
Tetrachloroethene
Concen: 70.696 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion:164 Resp: 152598

Ion	Ratio	Lower	Upper
164	100		
166	127.3	102.8	154.2
129	99.7	79.4	119.2
131	96.3	77.4	116.2



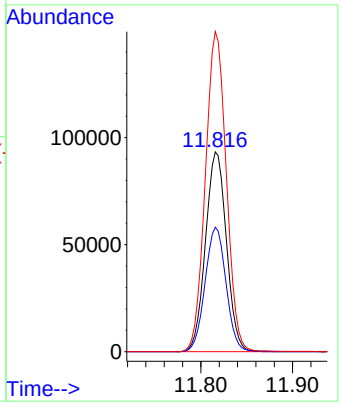
Instrument :
MSVOA_U
ClientSampleId :
1027-MW-01DL



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044909.D
Acq: 28 Sep 2021 00:20

Tgt Ion:152 Resp: 147973

Ion	Ratio	Lower	Upper
152	100		
115	62.3	43.5	130.7
150	159.8	0.0	350.0



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02	SDG No.:	M3859
Lab Sample ID:	M3859-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044910.D	1		09/28/21 00:44	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	2.20		0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	UQ	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	6.10		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.10		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	1.50	J	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	33.5		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	46.3		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02	SDG No.:	M3859
Lab Sample ID:	M3859-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044910.D	1		09/28/21 00:44	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	87.7		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.0		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	45.0		75 - 124	90%	SPK: 50
2037-26-5	Toluene-d8	48.1		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		83 - 123	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	5.378			
540-36-3	1,4-Difluorobenzene	349000	6.253			
3114-55-4	Chlorobenzene-d5	317000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	149000	11.815			
TENTATIVE IDENTIFIED COMPOUNDS						
91-20-3	Naphthalene	1.20	J		14.1	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02	SDG No.:	M3859
Lab Sample ID:	M3859-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044910.D	1		09/28/21 00:44	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044910.D
Acq On : 28 Sep 2021 00:44
Operator : SY/MD
Sample : M3859-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1028-MW-02

Quant Time: Sep 28 06:30:34 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

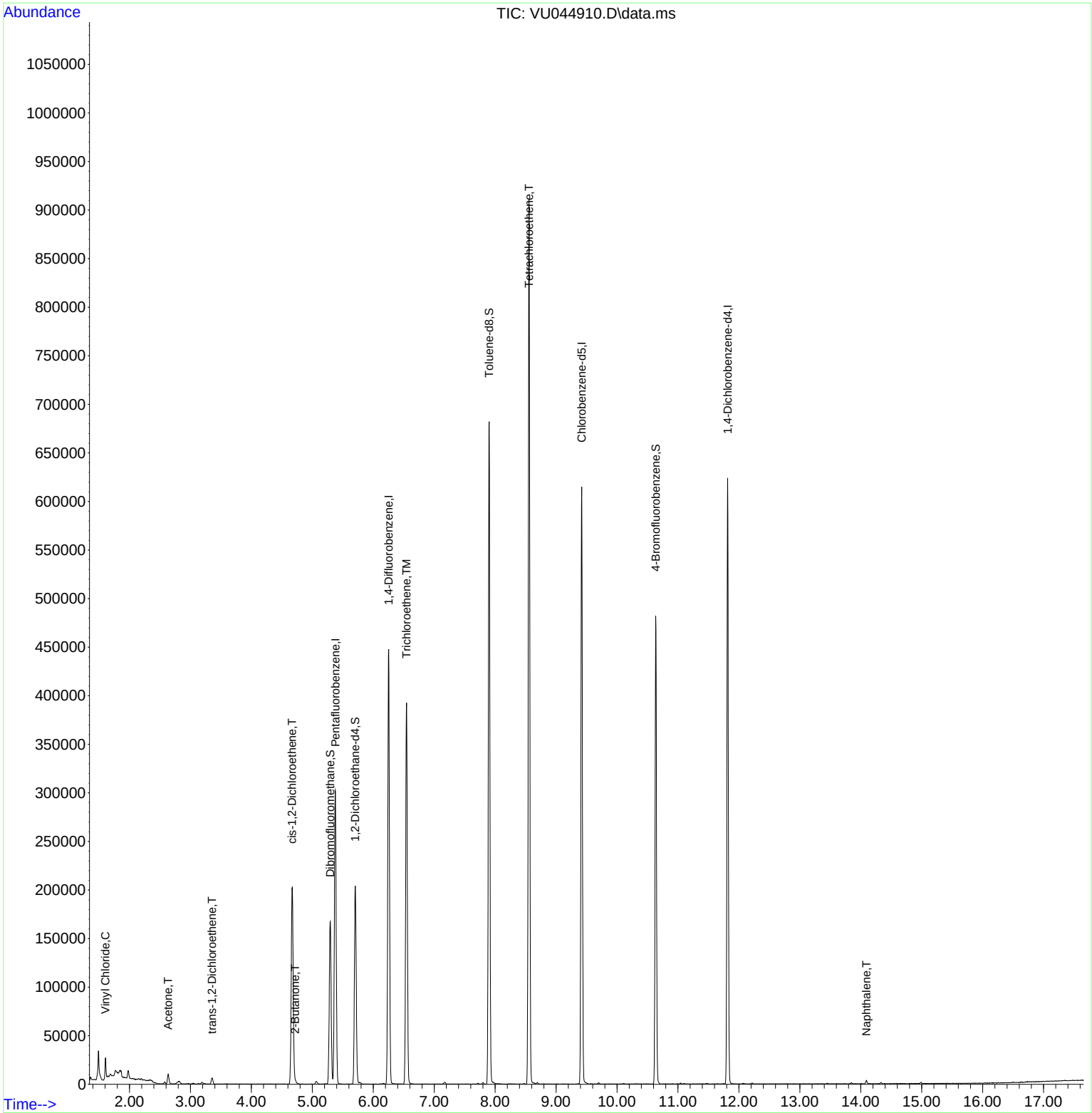
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	197689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	348544	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	316990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	148783	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	155149	44.97	ug/l	0.00
Spiked Amount 50.000			Recovery = 89.94%			
35) Dibromofluoromethane	5.295	113	107495	44.96	ug/l	0.00
Spiked Amount 50.000			Recovery = 89.92%			
50) Toluene-d8	7.902	98	434046	48.06	ug/l	0.00
Spiked Amount 50.000			Recovery = 96.12%			
62) 4-Bromofluorobenzene	10.635	95	159177	47.46	ug/l	0.00
Spiked Amount 50.000			Recovery = 94.92%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.607	62	7390	2.20	ug/l #	75
16) Acetone	2.636	43	11926	6.13	ug/l	97
21) trans-1,2-Dichloroethene	3.356	96	2748	1.08	ug/l	89
25) 2-Butanone	4.716	43	4564	1.55	ug/l	96
27) cis-1,2-Dichloroethene	4.668	96	103971	33.54	ug/l	87
44) Trichloroethene	6.546	130	125411	46.28	ug/l	98
64) Tetrachloroethene	8.555	164	188364	87.67	ug/l	97
95) Naphthalene	14.092	128	3420	1.24	ug/l	95

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

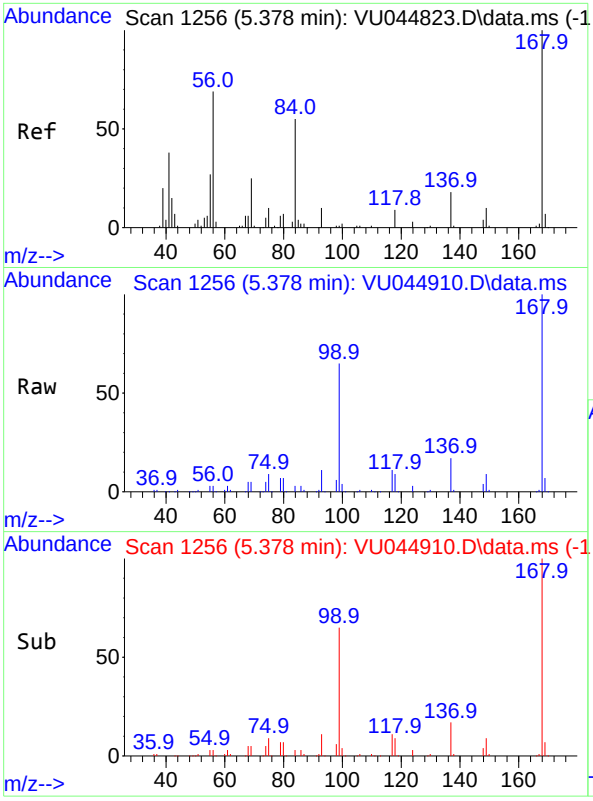
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044910.D
Acq On : 28 Sep 2021 00:44
Operator : SY/MD
Sample : M3859-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

Quant Time: Sep 28 06:30:34 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



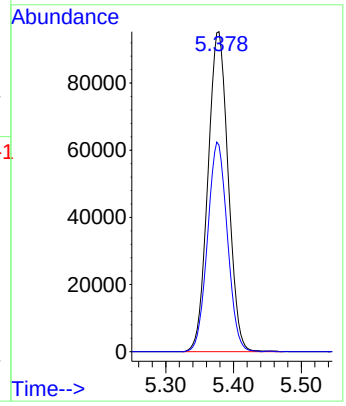
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

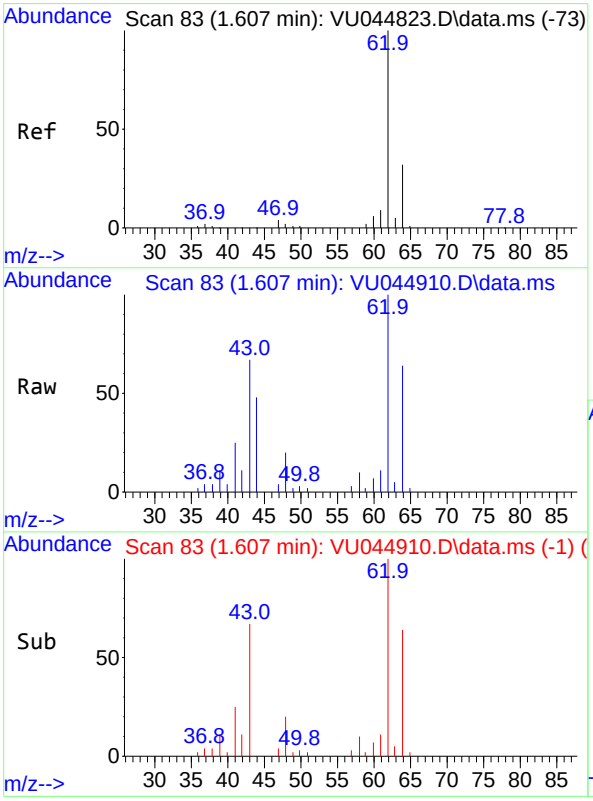


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:168 Resp: 197689

Ion	Ratio	Lower	Upper
168	100		
99	64.5	51.4	77.0

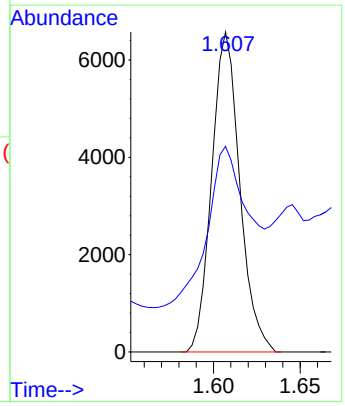




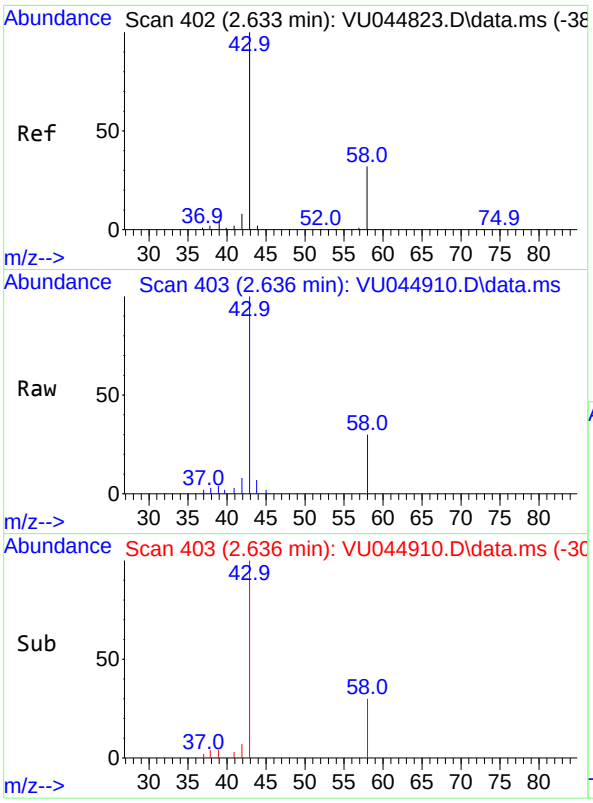
#4
Vinyl Chloride
Concen: 2.20 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 62 Resp: 7390

Ion	Ratio	Lower	Upper
62	100		
64	45.7	25.6	38.4#



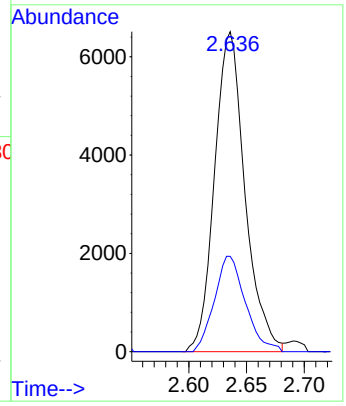
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

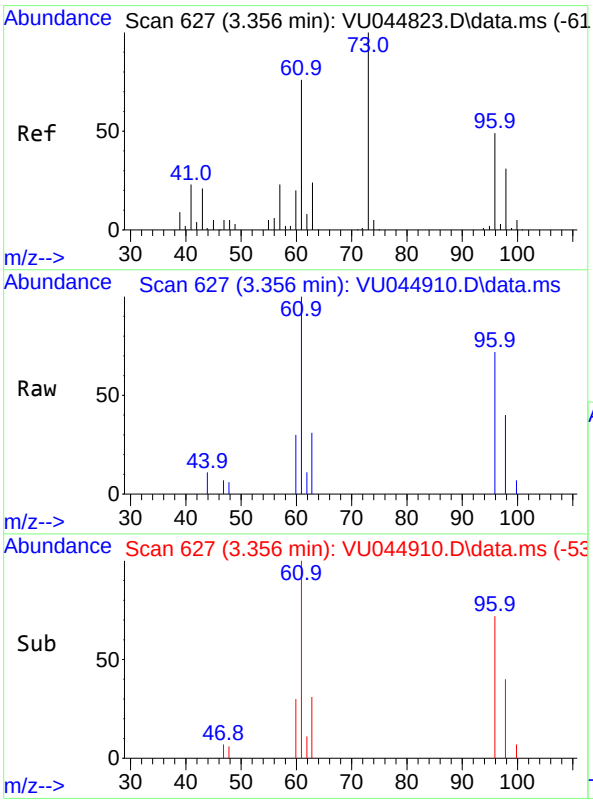


#16
Acetone
Concen: 6.13 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 43 Resp: 11926

Ion	Ratio	Lower	Upper
43	100		
58	29.8	25.2	37.8

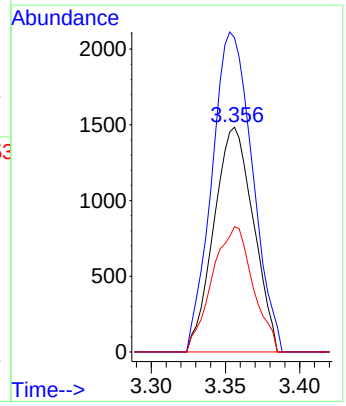




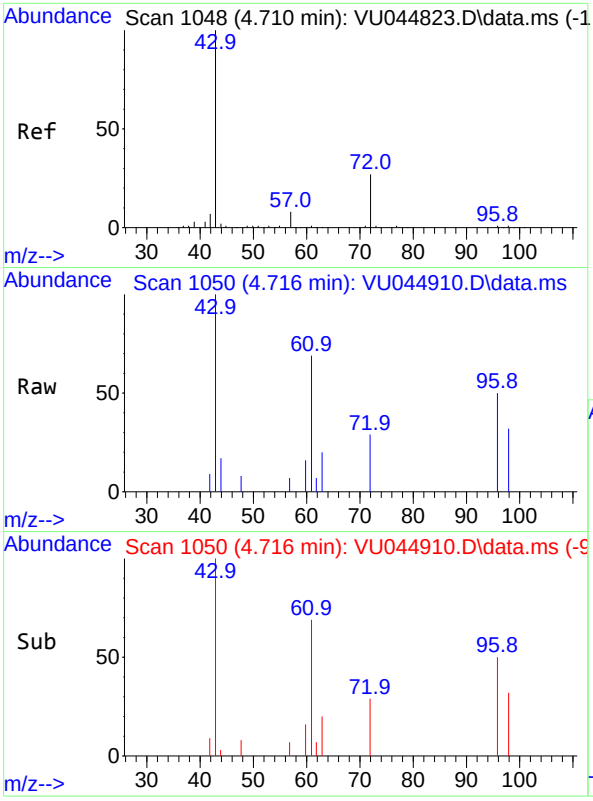
#21
trans-1,2-Dichloroethene
Concen: 1.08 ug/l
RT: 3.356 min Scan# 627
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 96 Resp: 2748

Ion	Ratio	Lower	Upper
96	100		
61	139.7	123.2	184.8
98	55.7	51.0	76.6



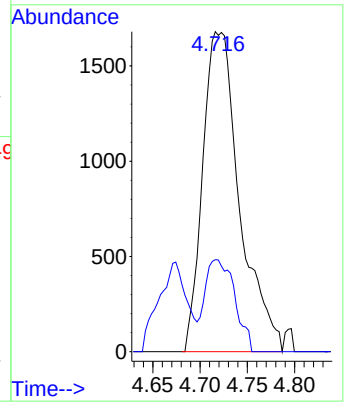
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

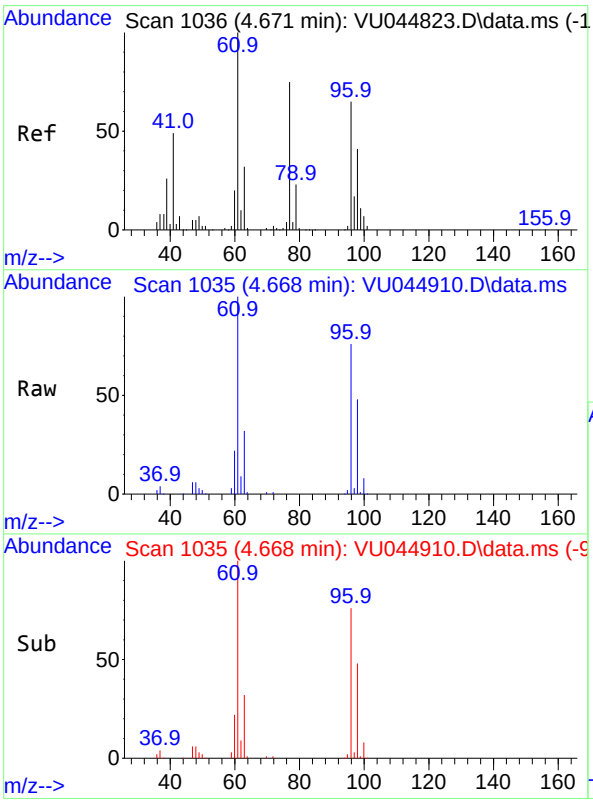


#25
2-Butanone
Concen: 1.55 ug/l
RT: 4.716 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 43 Resp: 4564

Ion	Ratio	Lower	Upper
43	100		
72	28.8	21.3	31.9

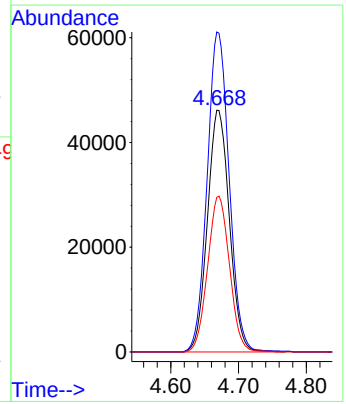




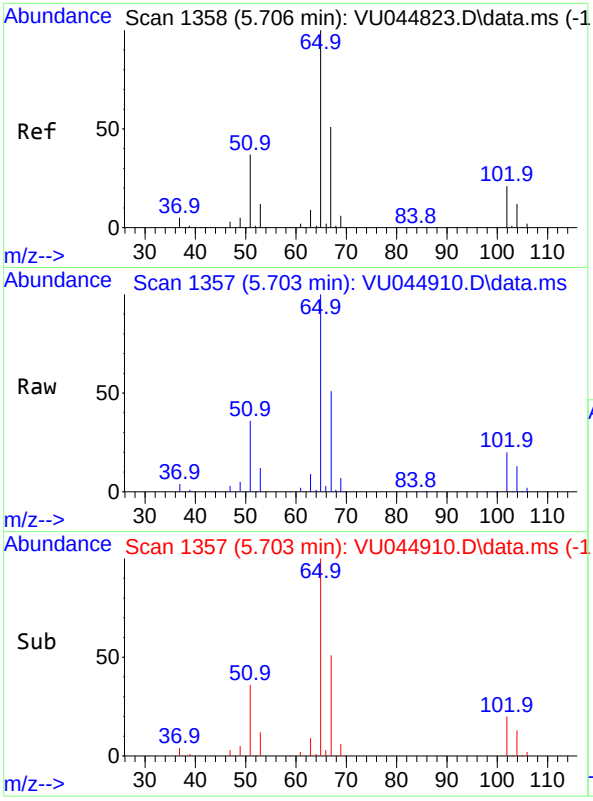
#27
cis-1,2-Dichloroethene
Concen: 33.54 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 96 Resp: 103971

Ion	Ratio	Lower	Upper
96	100		
61	132.6	0.0	313.4
98	64.2	0.0	127.0



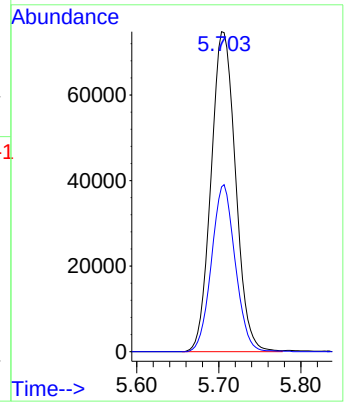
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

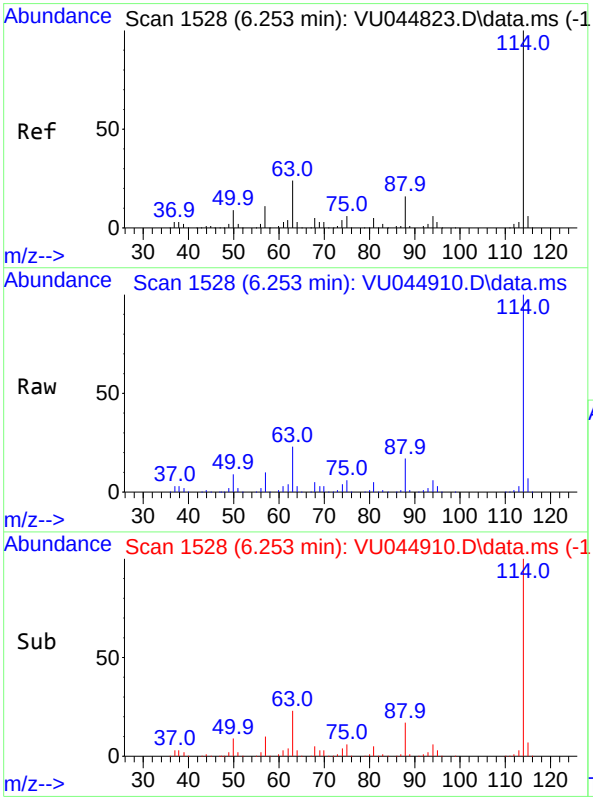


#33
1,2-Dichloroethane-d4
Concen: 44.97 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 65 Resp: 155149

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	104.8

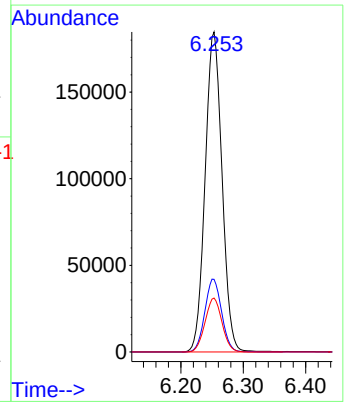




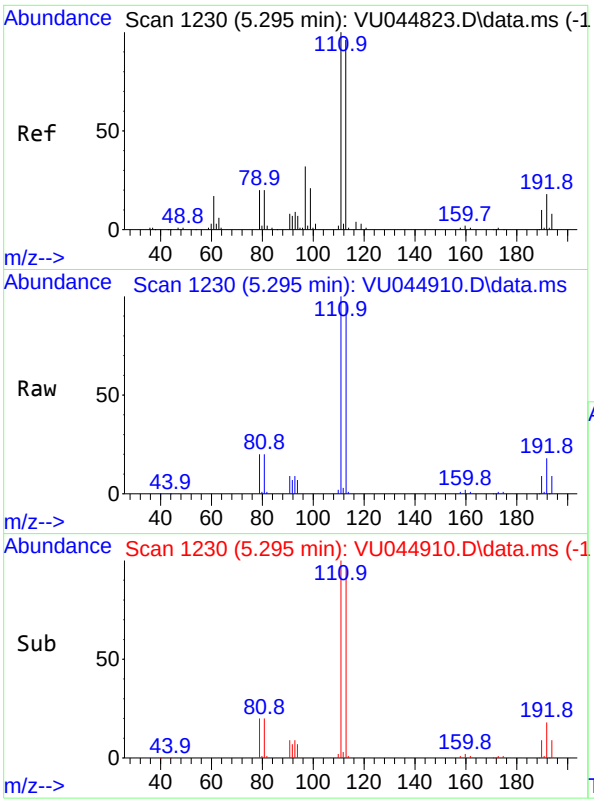
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:114 Resp: 348544

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	47.8
88	16.9	0.0	32.8



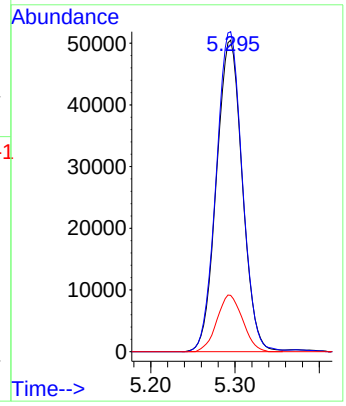
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

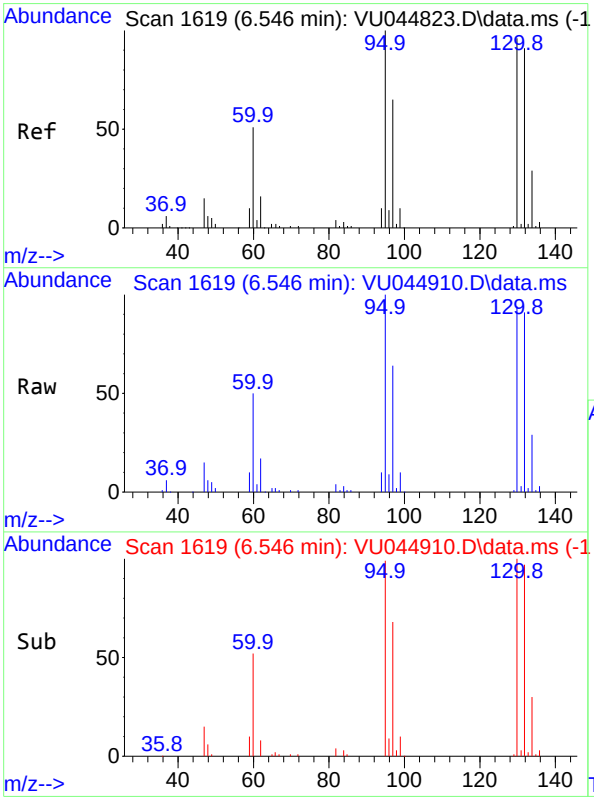


#35
Dibromofluoromethane
Concen: 44.96 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:113 Resp: 107495

Ion	Ratio	Lower	Upper
113	100		
111	103.5	84.1	126.1
192	18.1	14.8	22.2

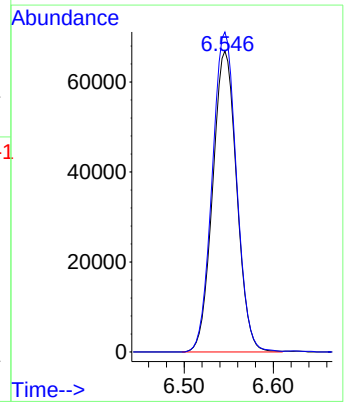




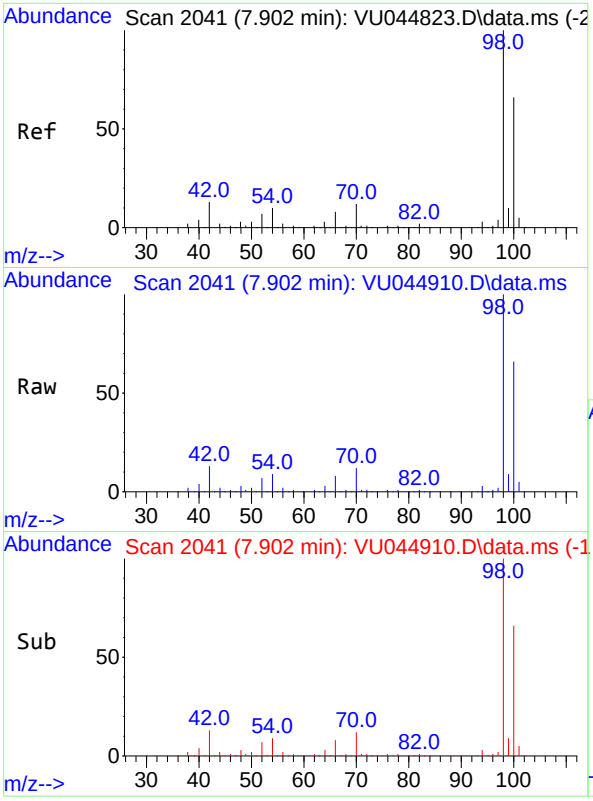
#44
Trichloroethene
Concen: 46.28 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:130 Resp: 125411

Ion	Ratio	Lower	Upper
130	100		
95	106.3	0.0	209.0



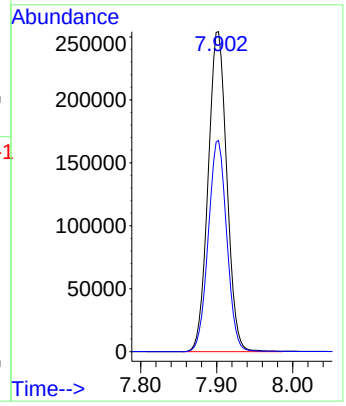
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

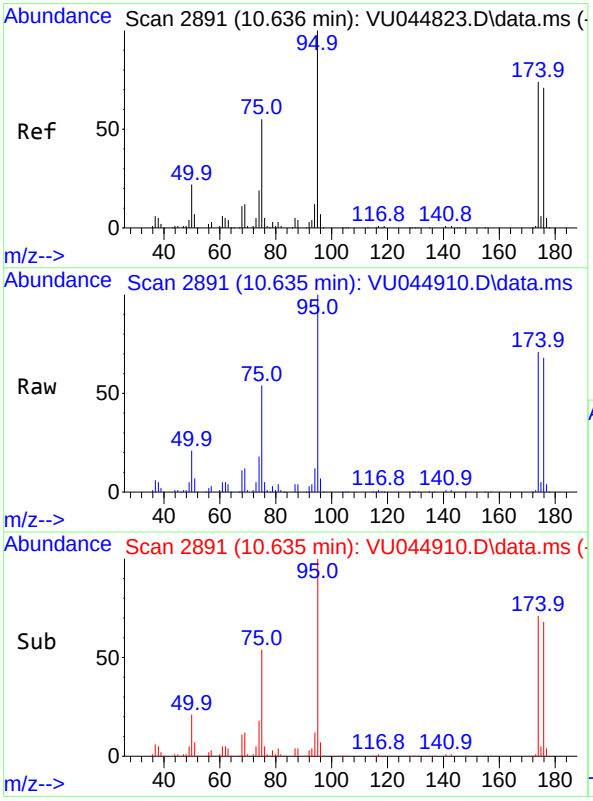


#50
Toluene-d8
Concen: 48.06 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 98 Resp: 434046

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.5	78.7

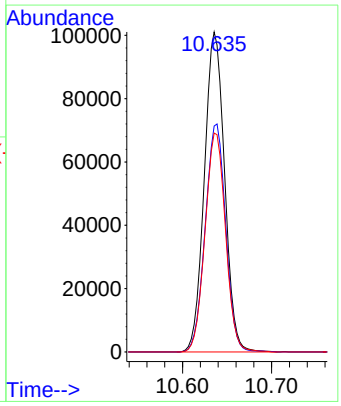




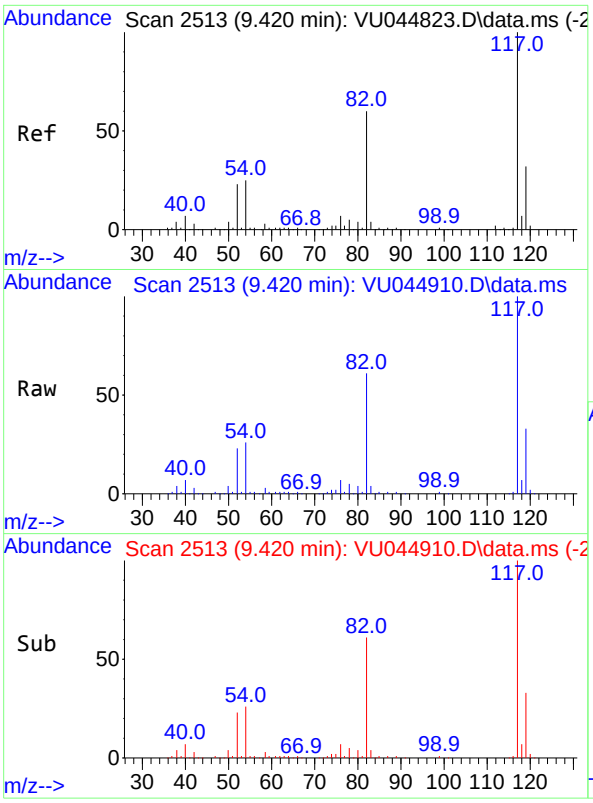
#62
4-Bromofluorobenzene
Concen: 47.46 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion: 95 Resp: 159177

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	146.6
176	69.3	0.0	141.2



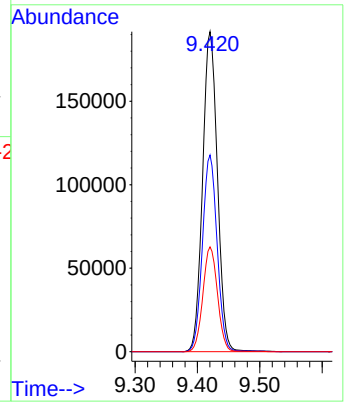
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

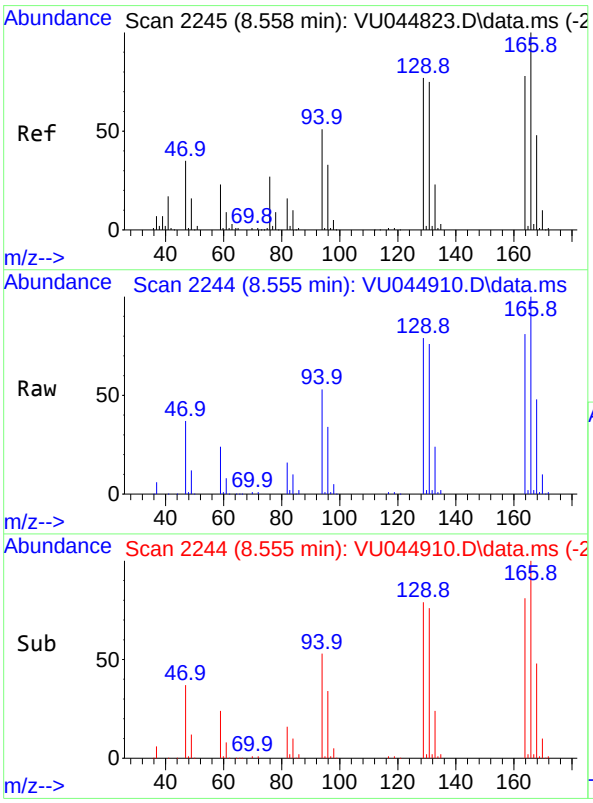


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:117 Resp: 316990

Ion	Ratio	Lower	Upper
117	100		
82	61.4	47.8	71.8
119	32.7	25.8	38.6

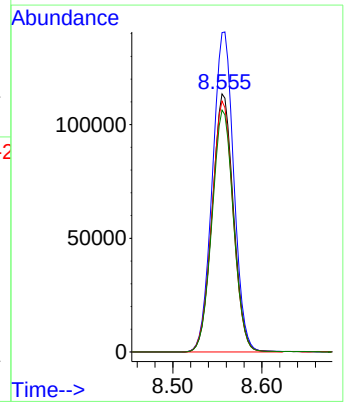




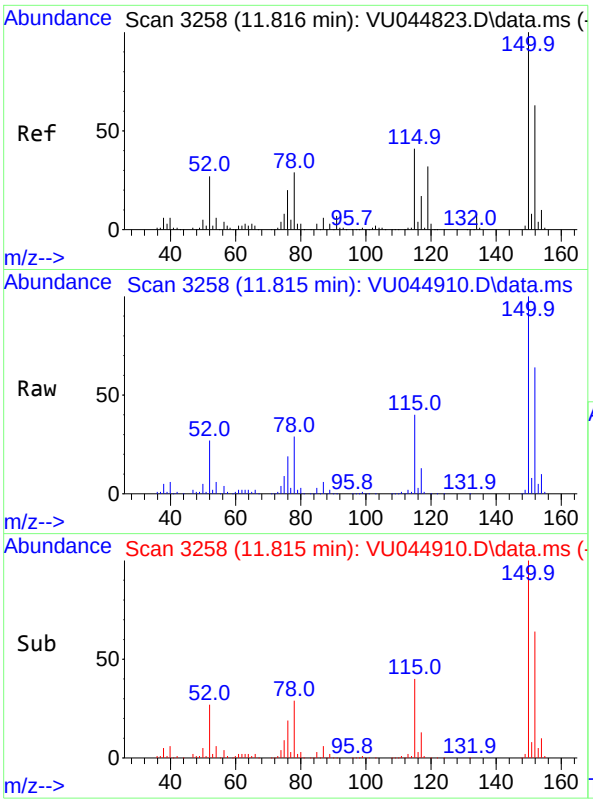
#64
Tetrachloroethene
Concen: 87.67 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:164 Resp: 188364

Ion	Ratio	Lower	Upper
164	100		
166	123.8	102.8	154.2
129	97.2	79.4	119.2
131	93.8	77.4	116.2



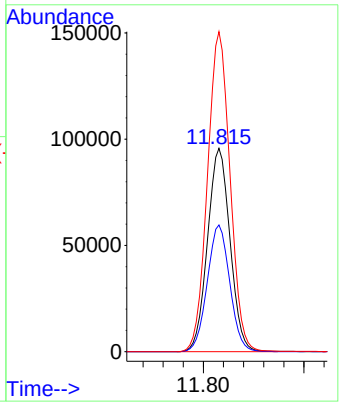
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

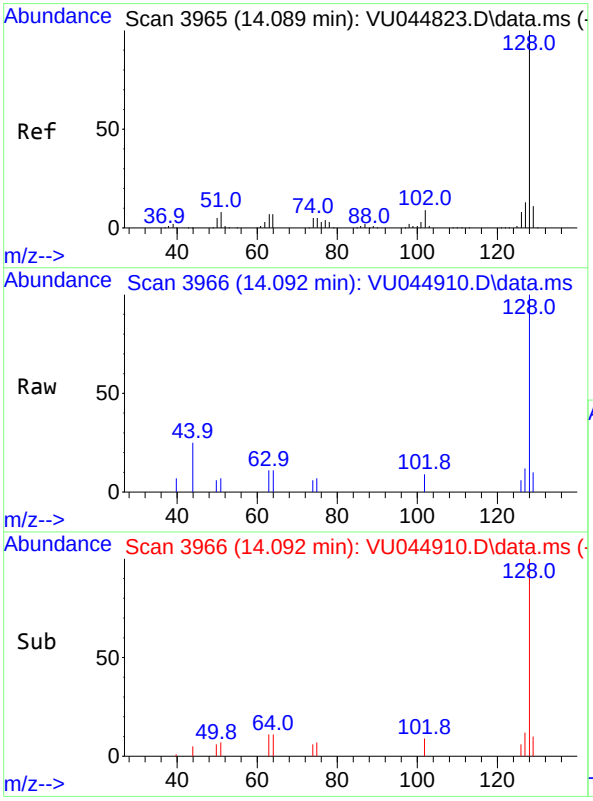


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:152 Resp: 148783

Ion	Ratio	Lower	Upper
152	100		
115	62.3	43.5	130.7
150	157.7	0.0	350.0

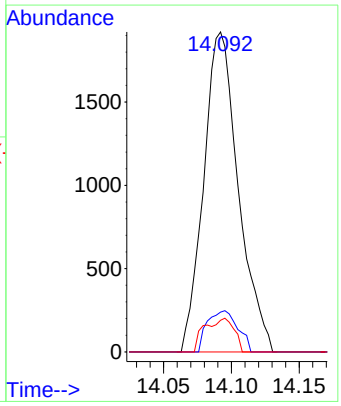




#95
Naphthalene
Concen: 1.24 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU044910.D
Acq: 28 Sep 2021 00:44

Tgt Ion:128 Resp: 3420

Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.4	15.6
129	8.9	8.6	13.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044910.D
Acq On : 28 Sep 2021 00:44
Operator : SY/MD
Sample : M3859-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1028-MW-02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044910.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.491	35	47	67	rVB3	30241	48698	3.20%	0.544%
2	1.607	74	83	91	rBV2	22248	28307	1.86%	0.316%
3	2.636	393	403	418	rVB	9964	17251	1.13%	0.193%
4	4.671	1020	1036	1066	rBV	202322	460340	30.22%	5.139%
5	5.295	1213	1230	1243	rBV	167260	355560	23.34%	3.970%
6	5.375	1243	1255	1276	rVB	302243	617461	40.54%	6.894%
7	5.703	1343	1357	1375	rBV	203831	419506	27.54%	4.683%
8	6.253	1513	1528	1553	rBV	447723	840856	55.20%	9.388%
9	6.546	1604	1619	1647	rBV	392449	735105	48.26%	8.207%
10	7.902	2026	2041	2060	rBV	681953	1166649	76.59%	13.025%
11	8.555	2230	2244	2265	rBV	911089	1523255	100.00%	17.006%
12	9.420	2500	2513	2533	rBV	614432	1006819	66.10%	11.240%
13	10.635	2878	2891	2914	rBV	481768	760646	49.94%	8.492%
14	11.815	3245	3258	3283	rBV	623807	976691	64.12%	10.904%

Sum of corrected areas: 8957144

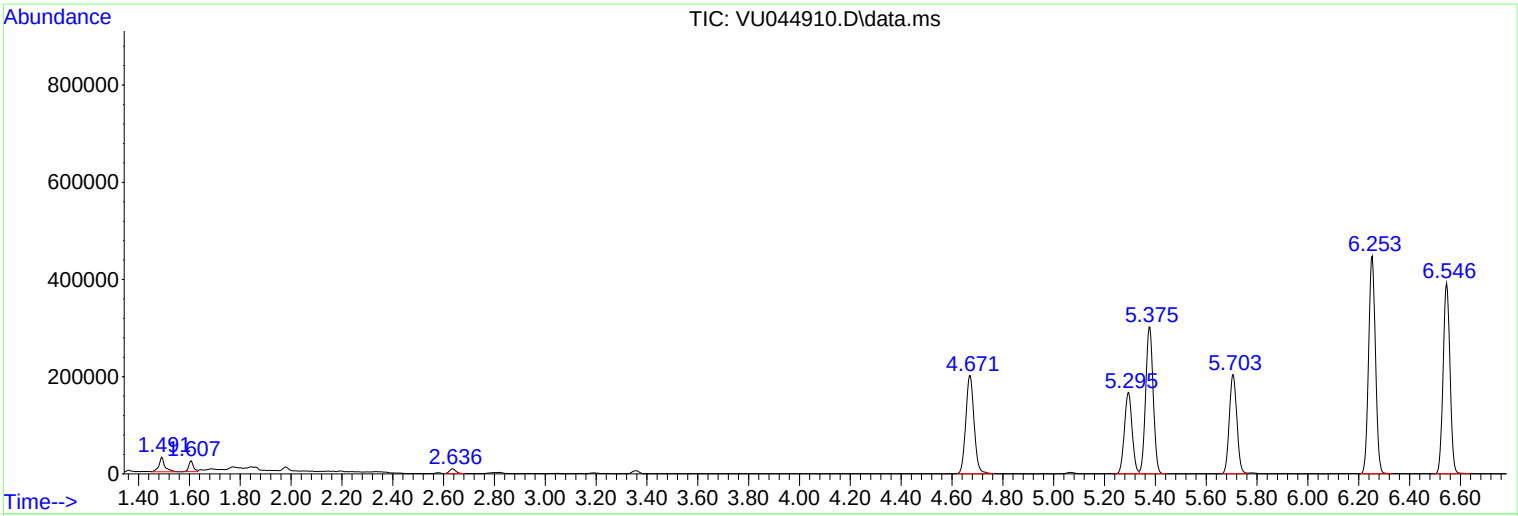
Sample Results: **VU044910.D**

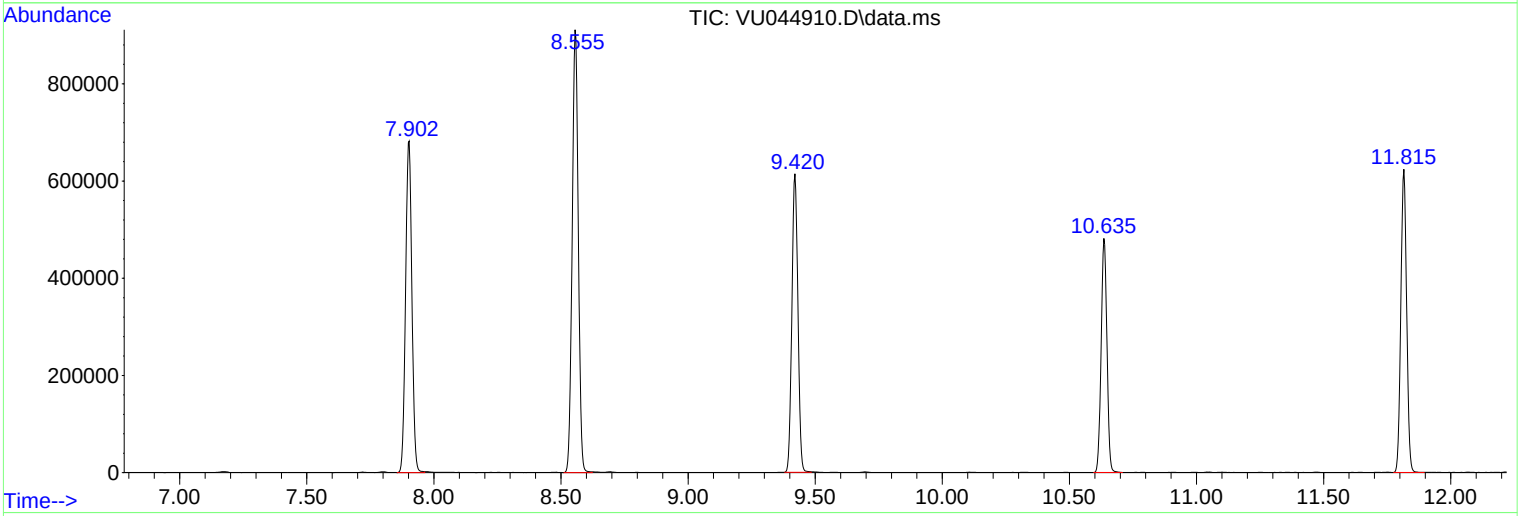
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044910.D
Acq On : 28 Sep 2021 00:44
Operator : SY/MD
Sample : M3859-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

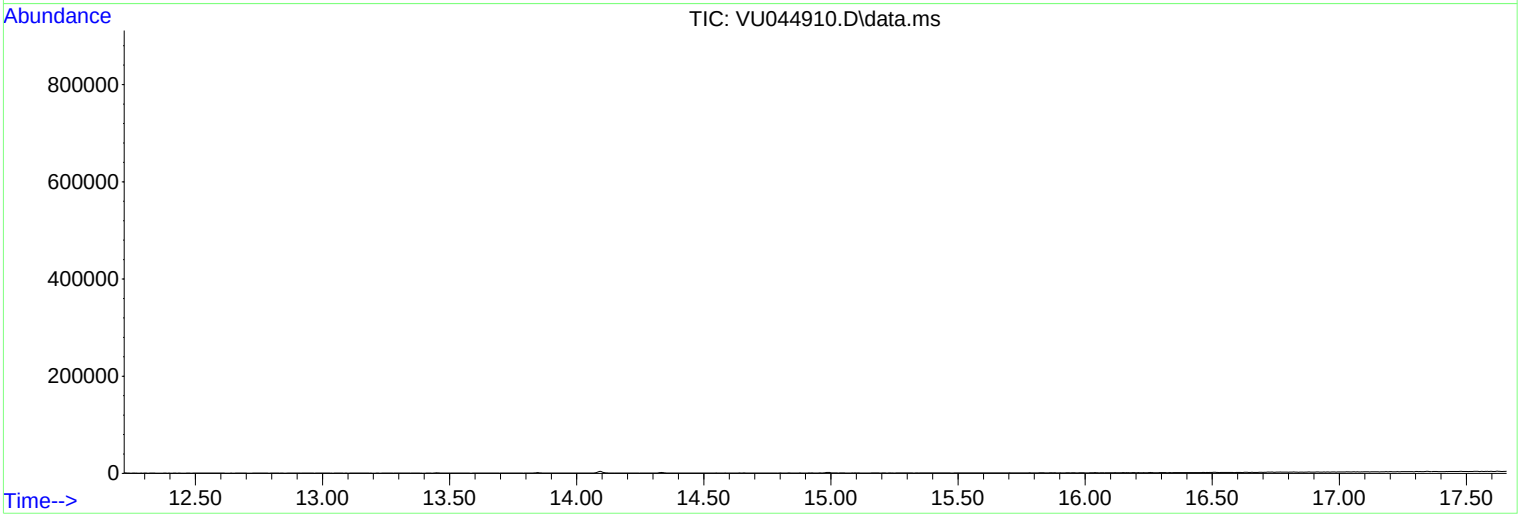
Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044910.D
Acq On : 28 Sep 2021 00:44
Operator : SY/MD
Sample : M3859-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044910.D
Acq On : 28 Sep 2021 00:44
Operator : SY/MD
Sample : M3859-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1029-MW-03A	SDG No.:	M3859
Lab Sample ID:	M3859-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044849.D	1		09/25/21 20:05	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	8.30		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	5.30		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	75.4		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	83.0		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1029-MW-03A	SDG No.:	M3859
Lab Sample ID:	M3859-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044849.D	1		09/25/21 20:05	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	310	E	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		78 - 117	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	50.3		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	5.379			
540-36-3	1,4-Difluorobenzene	305000	6.253			
3114-55-4	Chlorobenzene-d5	289000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	130000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1029-MW-03A	SDG No.:	M3859
Lab Sample ID:	M3859-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044849.D	1		09/25/21 20:05	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044849.D
Acq On : 25 Sep 2021 20:05
Operator : SY/MD
Sample : M3859-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1029-MW-03A

Quant Time: Sep 27 01:35:29 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

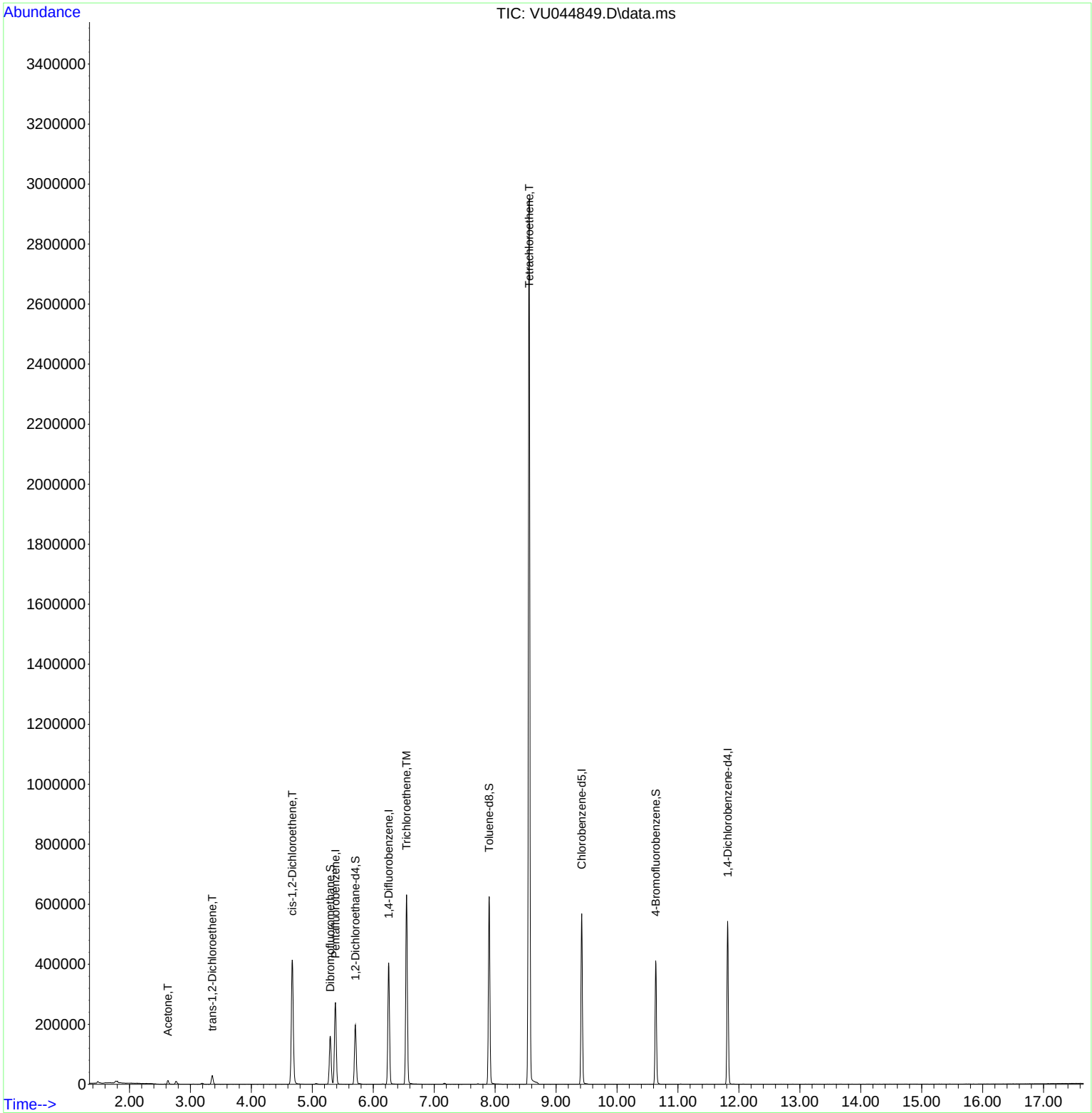
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	175911	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	305422	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	289265	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	129639	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	147815	48.146	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.300%		
35) Dibromofluoromethane	5.295	113	102371	48.859	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.720%		
50) Toluene-d8	7.903	98	397732	50.261	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.520%		
62) 4-Bromofluorobenzene	10.636	95	135674	46.161	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.320%		
Target Compounds						Qvalue
16) Acetone	2.629	43	14287	8.250	ug/l	100
21) trans-1,2-Dichloroethene	3.359	96	11994	5.289	ug/l	97
27) cis-1,2-Dichloroethene	4.671	96	208073	75.441	ug/l	88
44) Trichloroethene	6.546	130	197148	83.026	ug/l	97
64) Tetrachloroethene	8.558	164	602815	307.449	ug/l	98

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

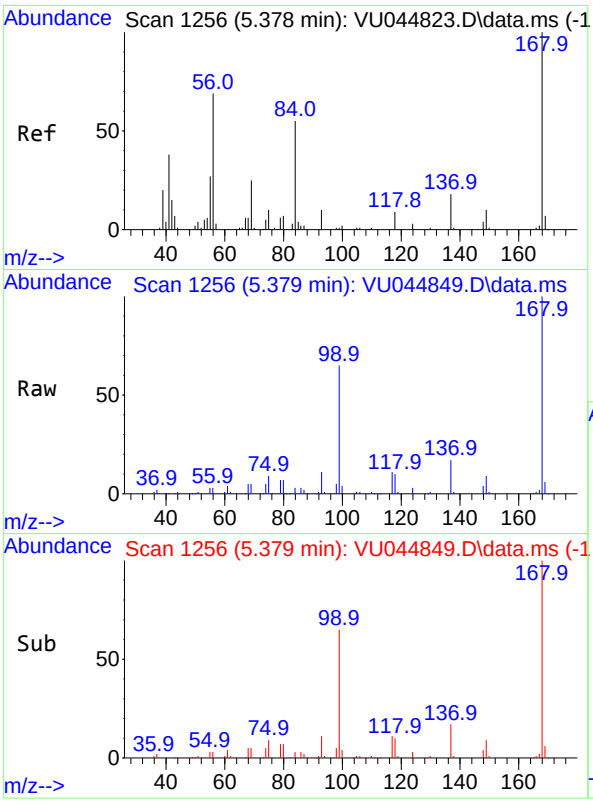
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044849.D
Acq On : 25 Sep 2021 20:05
Operator : SY/MD
Sample : M3859-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

Quant Time: Sep 27 01:35:29 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



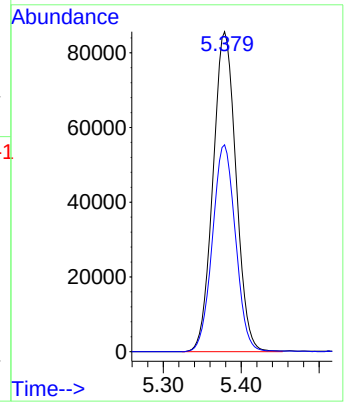
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

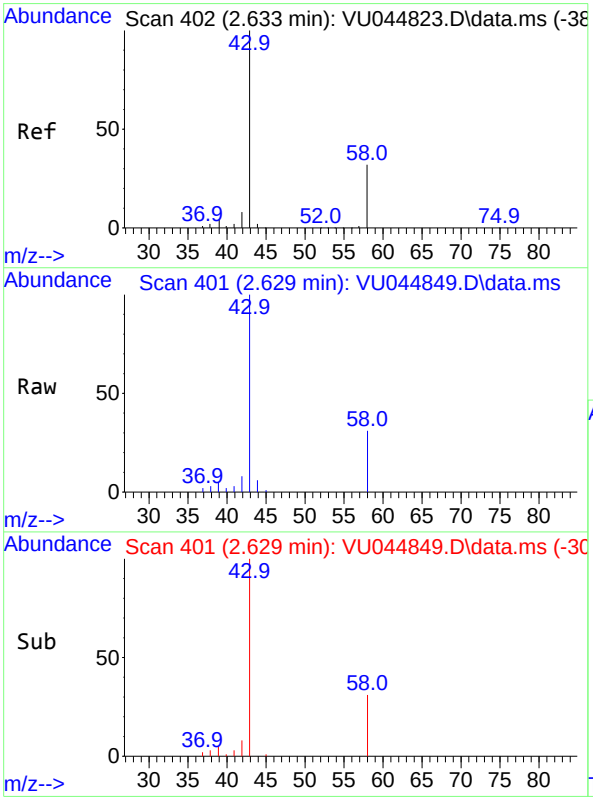


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion:168 Resp: 175911

Ion	Ratio	Lower	Upper
168	100		
99	64.6	51.4	77.0

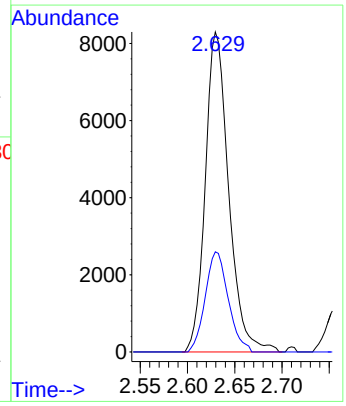




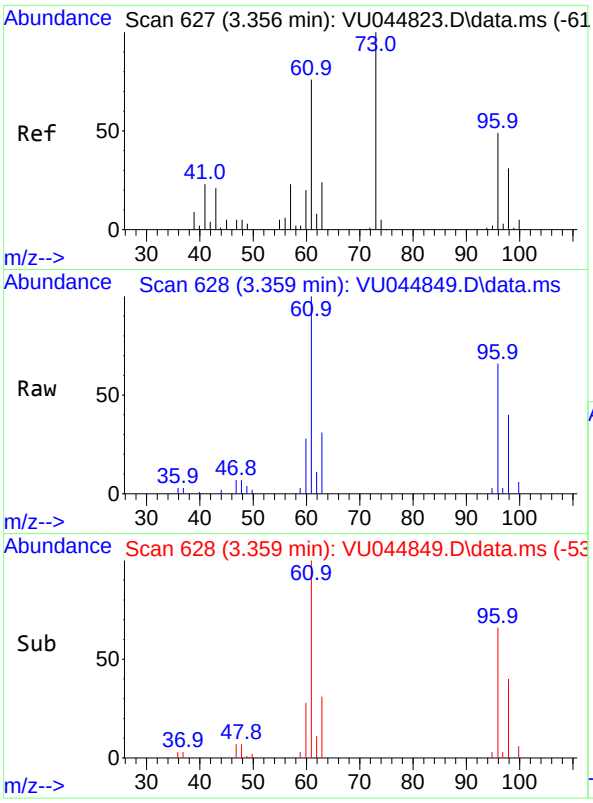
#16
Acetone
Concen: 8.250 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion: 43 Resp: 14287

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.2	37.8



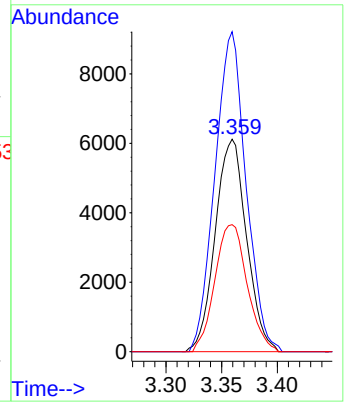
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

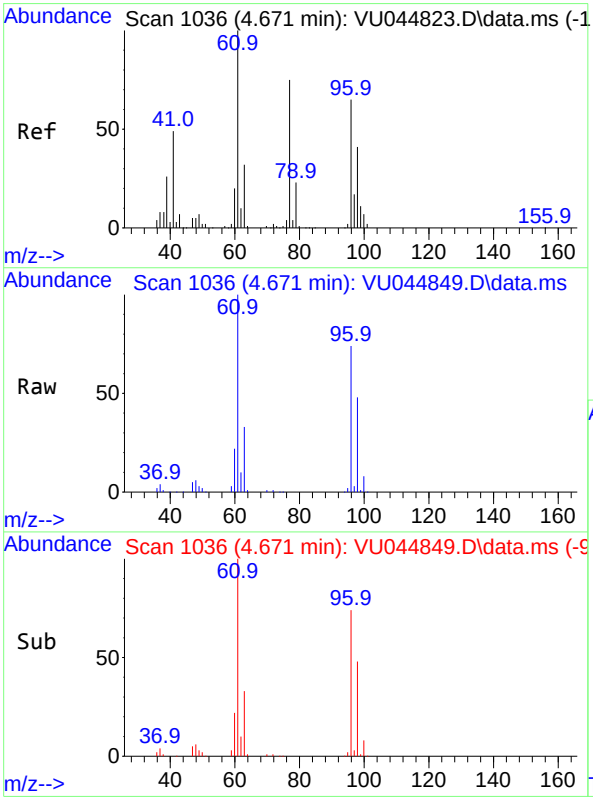


#21
trans-1,2-Dichloroethene
Concen: 5.289 ug/l
RT: 3.359 min Scan# 628
Delta R.T. 0.003 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion: 96 Resp: 11994

Ion	Ratio	Lower	Upper
96	100		
61	150.5	123.2	184.8
98	59.7	51.0	76.6

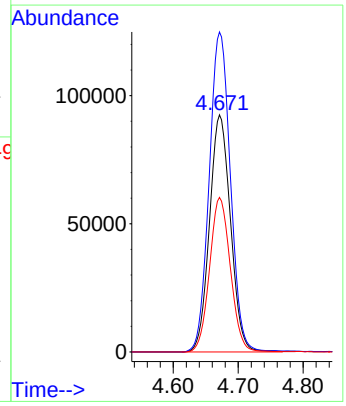




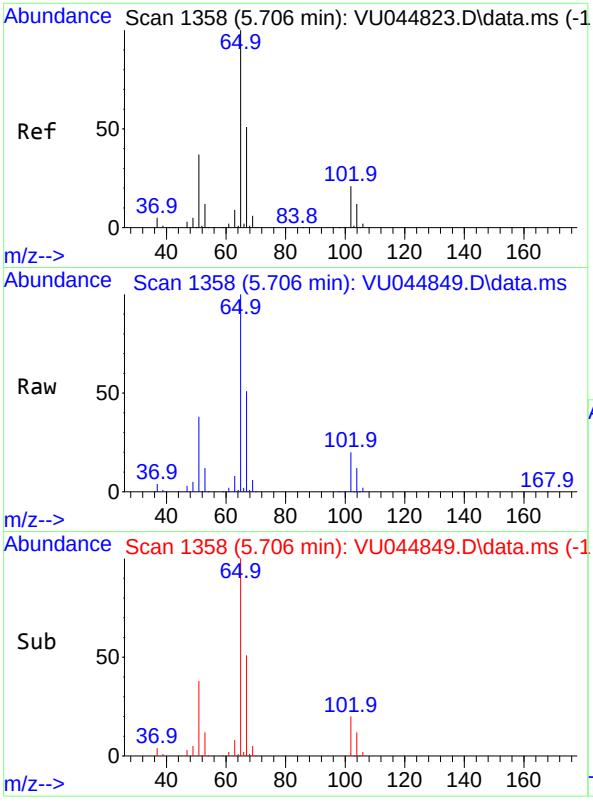
#27
cis-1,2-Dichloroethene
Concen: 75.441 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion: 96 Resp: 208073

Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	313.4
98	64.6	0.0	127.0



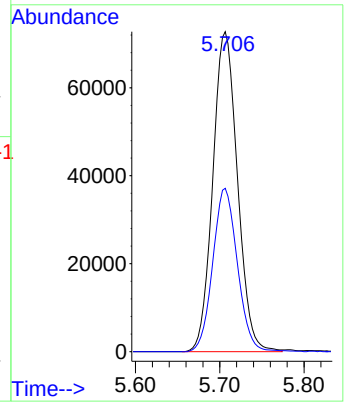
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

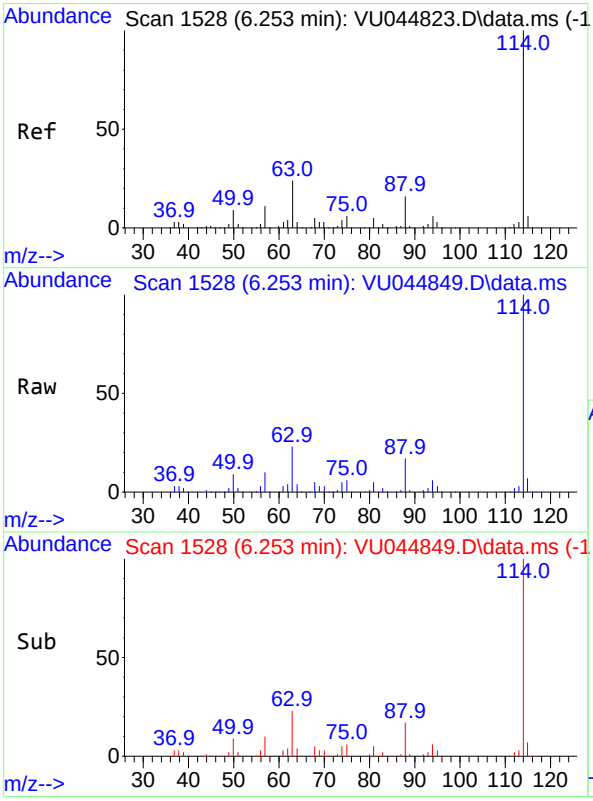


#33
1,2-Dichloroethane-d4
Concen: 48.146 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion: 65 Resp: 147815

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.8

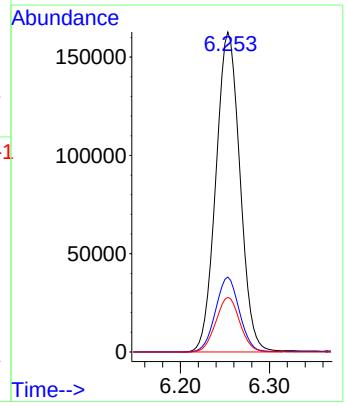




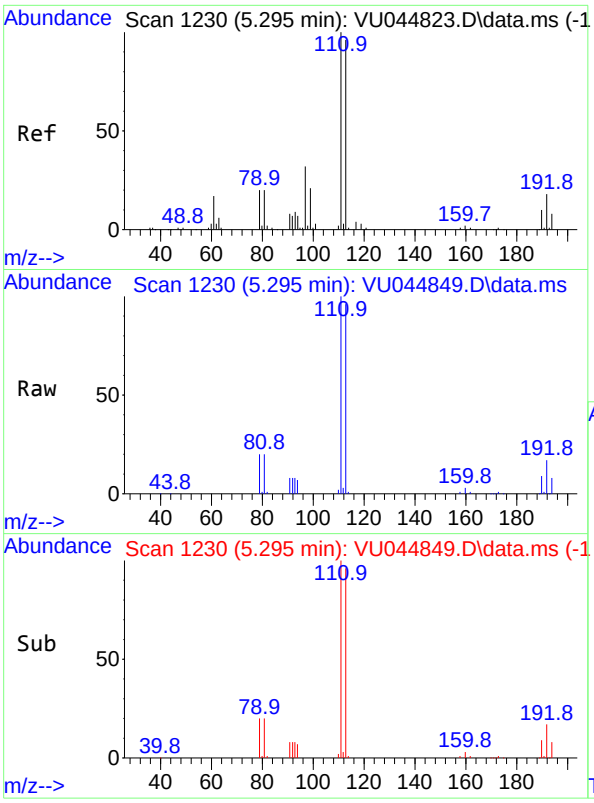
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion:114 Resp: 305422

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	47.8
88	17.1	0.0	32.8



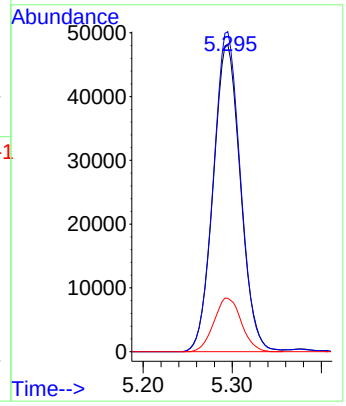
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

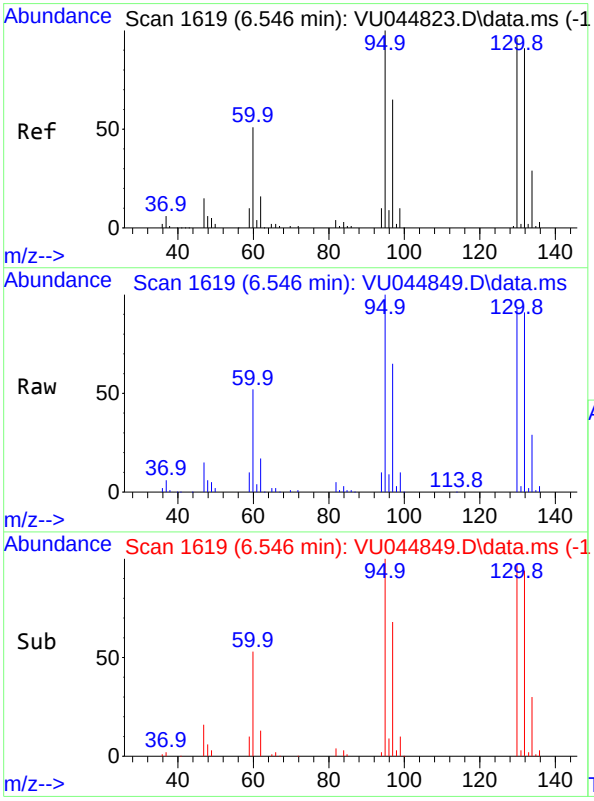


#35
Dibromofluoromethane
Concen: 48.859 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion:113 Resp: 102371

Ion	Ratio	Lower	Upper
113	100		
111	103.1	84.1	126.1
192	17.5	14.8	22.2

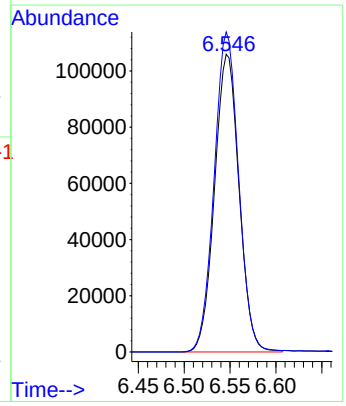




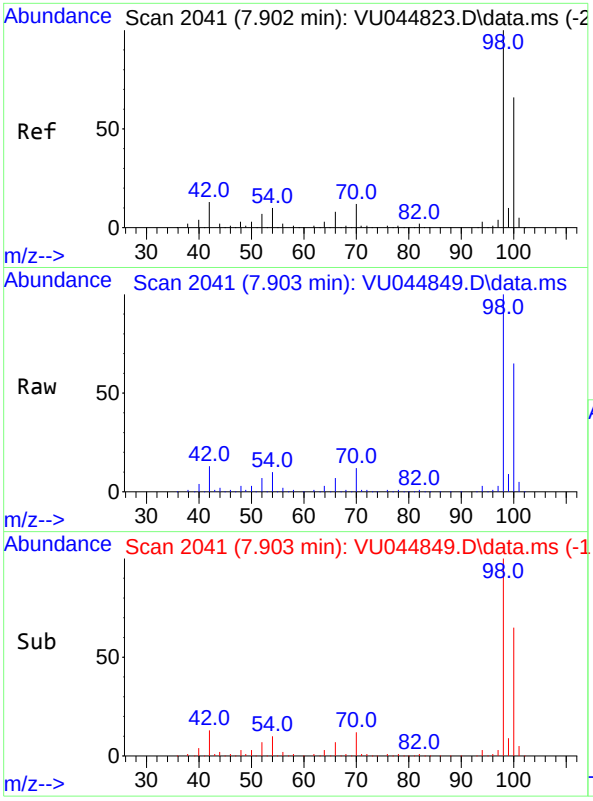
#44
Trichloroethene
Concen: 83.026 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion:130 Resp: 197148

Ion	Ratio	Lower	Upper
130	100		
95	107.5	0.0	209.0



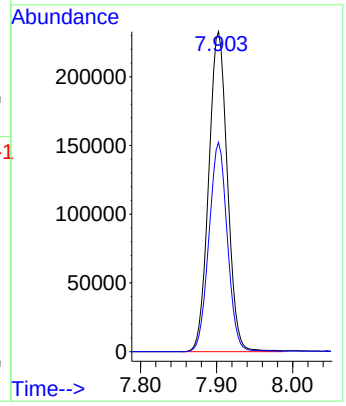
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

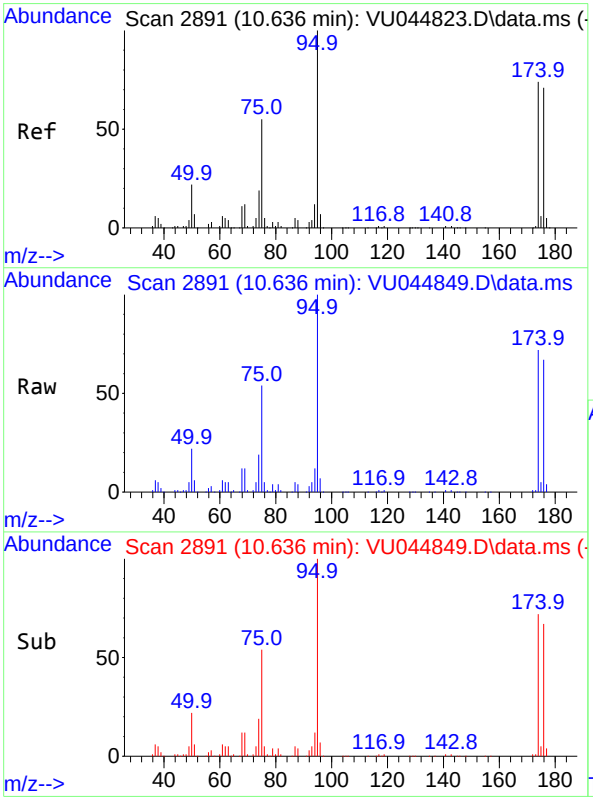


#50
Toluene-d8
Concen: 50.261 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion: 98 Resp: 397732

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.5	78.7

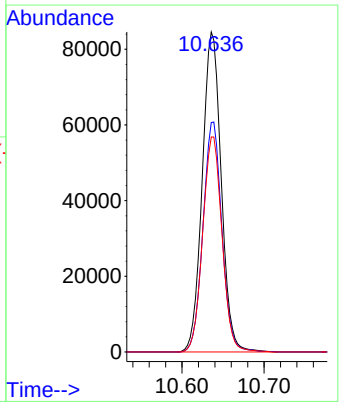




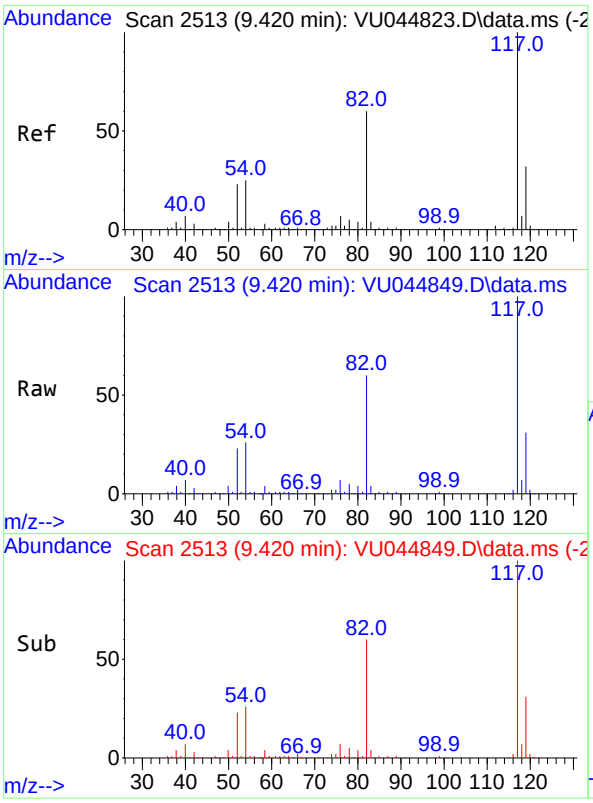
#62
4-Bromofluorobenzene
Concen: 46.161 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion: 95 Resp: 135674

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	146.6
176	68.5	0.0	141.2



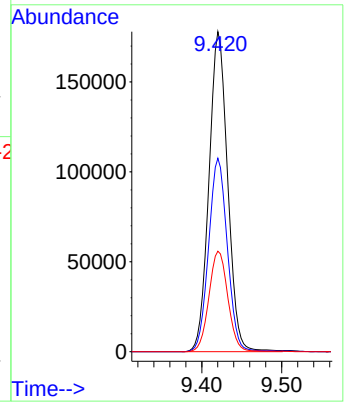
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

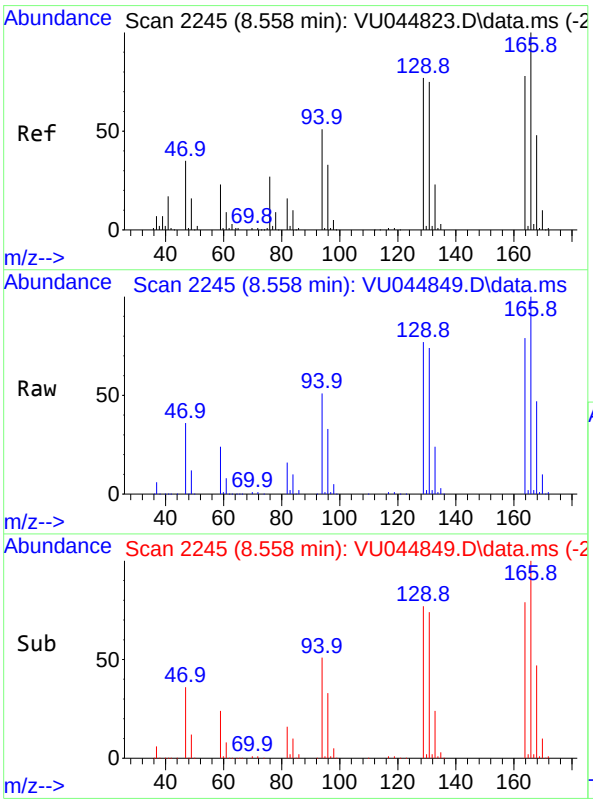


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion:117 Resp: 289265

Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.8	71.8
119	31.4	25.8	38.6

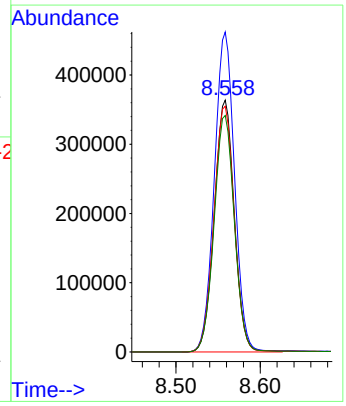




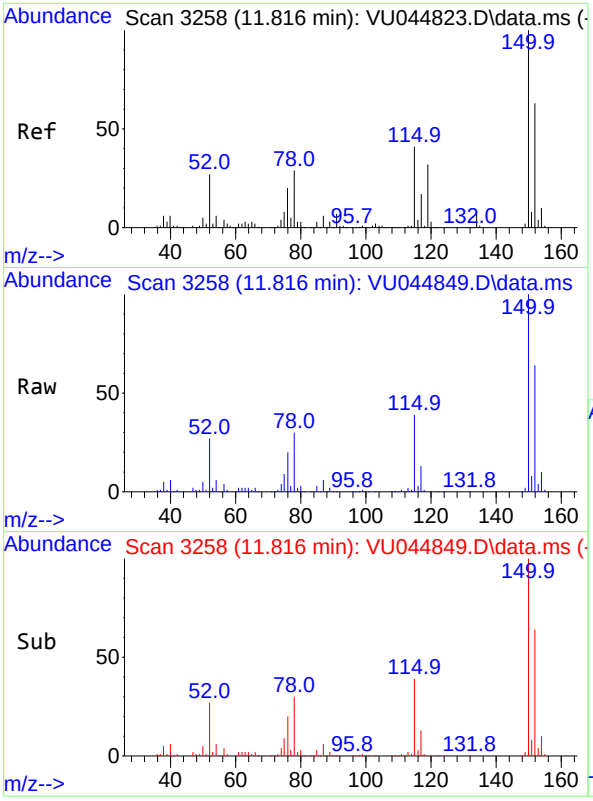
#64
Tetrachloroethene
Concen: 307.449 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion:164 Resp: 602815

Ion	Ratio	Lower	Upper
164	100		
166	127.1	102.8	154.2
129	97.6	79.4	119.2
131	93.9	77.4	116.2



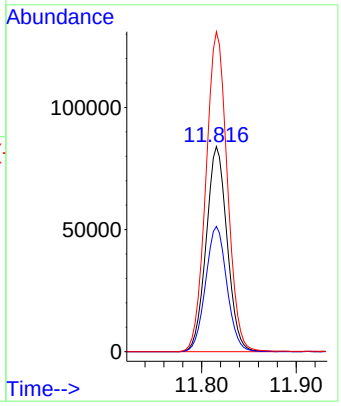
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044849.D
Acq: 25 Sep 2021 20:05

Tgt Ion:152 Resp: 129639

Ion	Ratio	Lower	Upper
152	100		
115	62.1	43.5	130.7
150	158.6	0.0	350.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044849.D
Acq On : 25 Sep 2021 20:05
Operator : SY/MD
Sample : M3859-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1029-MW-03A

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044849.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.359	613	628	643	rBV	29209	57601	1.16%	0.454%
2	4.671	1013	1036	1060	rBV	414131	935637	18.83%	7.367%
3	5.295	1214	1230	1243	rBV	159250	335299	6.75%	2.640%
4	5.379	1243	1256	1278	rVB	272335	559937	11.27%	4.409%
5	5.706	1343	1358	1376	rBV	197627	401742	8.08%	3.163%
6	6.253	1512	1528	1553	rBV	404345	758449	15.26%	5.972%
7	6.546	1604	1619	1641	rBV	631399	1177747	23.70%	9.273%
8	7.903	2026	2041	2062	rBV	624949	1066340	21.46%	8.396%
9	8.558	2230	2245	2296	rBV	2949547	4970052	100.00%	39.133%
10	9.420	2499	2513	2538	rBV	568698	924392	18.60%	7.279%
11	10.636	2879	2891	2916	rBV	411508	658175	13.24%	5.182%
12	11.816	3244	3258	3278	rBV	543160	854890	17.20%	6.731%

Sum of corrected areas: 12700261

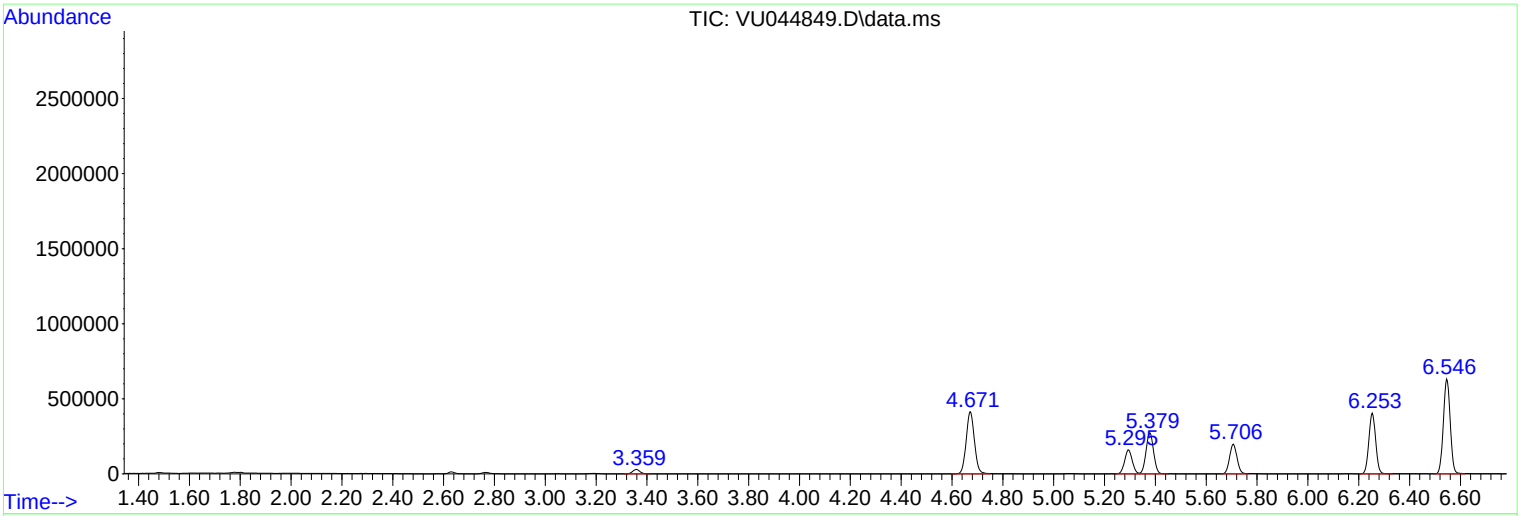
Sample Results: **VU044849.D**

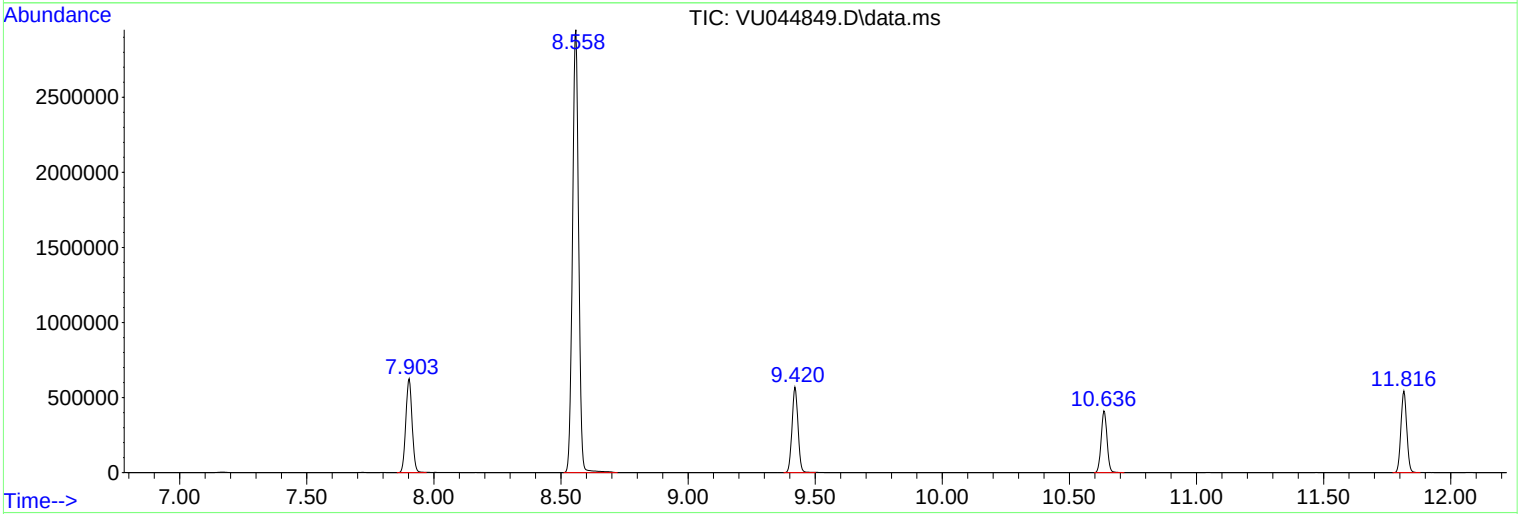
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044849.D
Acq On : 25 Sep 2021 20:05
Operator : SY/MD
Sample : M3859-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

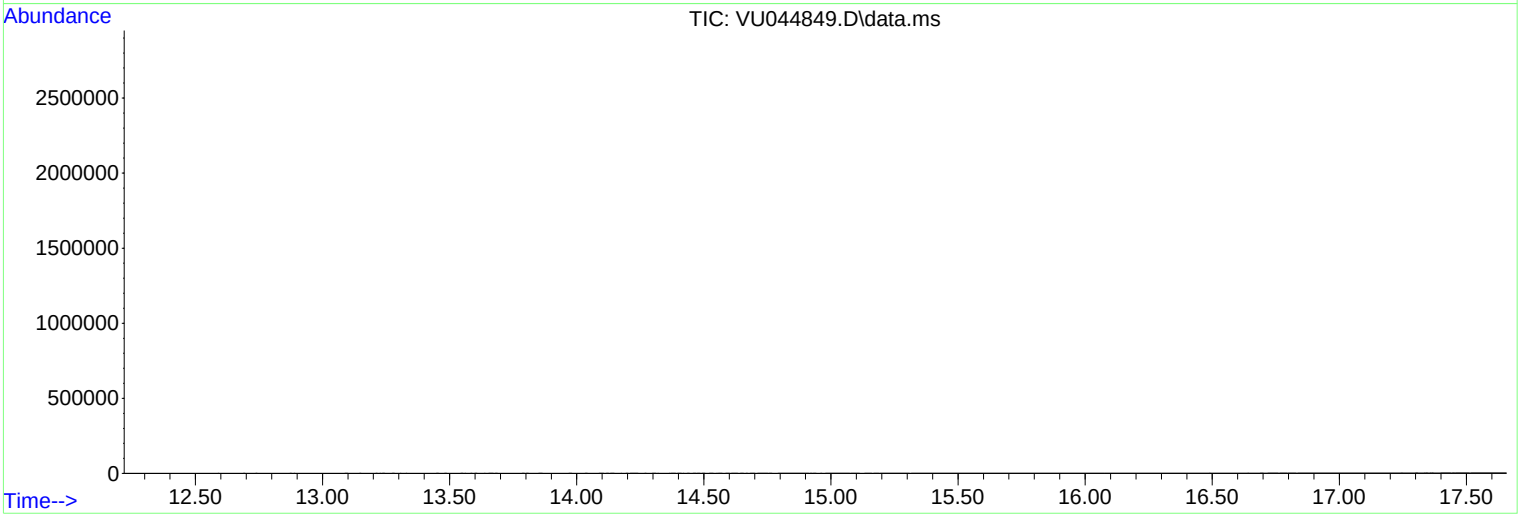
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044849.D
Acq On : 25 Sep 2021 20:05
Operator : SY/MD
Sample : M3859-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044849.D
Acq On : 25 Sep 2021 20:05
Operator : SY/MD
Sample : M3859-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1029-MW-03ADL	SDG No.:	M3859
Lab Sample ID:	M3859-03DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044912.D	5		09/28/21 01:31	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	UD	1.20	5.00	ug/L
74-87-3	Chloromethane	5.00	UD	1.00	5.00	ug/L
75-01-4	Vinyl Chloride	5.00	UD	0.97	5.00	ug/L
74-83-9	Bromomethane	25.0	UDQ	4.30	25.0	ug/L
75-00-3	Chloroethane	5.00	UD	1.80	5.00	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	1.20	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	UD	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	UD	1.30	5.00	ug/L
67-64-1	Acetone	9.20	JD	8.10	25.0	ug/L
75-15-0	Carbon Disulfide	5.00	UD	1.30	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	1.10	5.00	ug/L
79-20-9	Methyl Acetate	5.00	UD	2.30	5.00	ug/L
75-09-2	Methylene Chloride	5.00	UD	0.90	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	5.20	D	0.96	5.00	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	1.00	5.00	ug/L
110-82-7	Cyclohexane	25.0	UD	6.50	25.0	ug/L
78-93-3	2-Butanone	25.0	UD	4.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	1.40	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	68.2	D	1.10	5.00	ug/L
74-97-5	Bromochloromethane	5.00	UD	1.30	5.00	ug/L
67-66-3	Chloroform	5.00	UD	1.30	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	0.98	5.00	ug/L
108-87-2	Methylcyclohexane	5.00	UD	0.71	5.00	ug/L
71-43-2	Benzene	5.00	UD	0.91	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	1.20	5.00	ug/L
79-01-6	Trichloroethene	73.9	D	0.87	5.00	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	0.85	5.00	ug/L
75-27-4	Bromodichloromethane	5.00	UD	0.99	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	4.30	25.0	ug/L
108-88-3	Toluene	5.00	UD	1.10	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	5.00	UD	0.89	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	0.83	5.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1029-MW-03ADL	SDG No.:	M3859
Lab Sample ID:	M3859-03DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044912.D	5		09/28/21 01:31	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	5.00	UD	1.20	5.00	ug/L
591-78-6	2-Hexanone	25.0	UD	4.60	25.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	0.89	5.00	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	0.82	5.00	ug/L
127-18-4	Tetrachloroethene	260	D	0.84	5.00	ug/L
108-90-7	Chlorobenzene	5.00	UD	0.83	5.00	ug/L
100-41-4	Ethyl Benzene	5.00	UD	0.91	5.00	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	1.60	10.0	ug/L
95-47-6	o-Xylene	5.00	UD	0.94	5.00	ug/L
100-42-5	Styrene	5.00	UD	0.82	5.00	ug/L
75-25-2	Bromoform	5.00	UD	0.96	5.00	ug/L
98-82-8	Isopropylbenzene	5.00	UD	1.20	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	1.50	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	0.97	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	0.99	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	0.94	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	UD	2.40	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	1.50	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.00	UD	1.70	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.9		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	45.1		75 - 124	90%	SPK: 50
2037-26-5	Toluene-d8	48.3		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		83 - 123	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	199000	5.375			
540-36-3	1,4-Difluorobenzene	347000	6.253			
3114-55-4	Chlorobenzene-d5	320000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	152000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1029-MW-03ADL	SDG No.:	M3859
Lab Sample ID:	M3859-03DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044912.D	5		09/28/21 01:31	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044912.D
Acq On : 28 Sep 2021 01:31
Operator : SY/MD
Sample : M3859-03DL 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1029-MW-03ADL

Quant Time: Sep 28 06:30:55 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

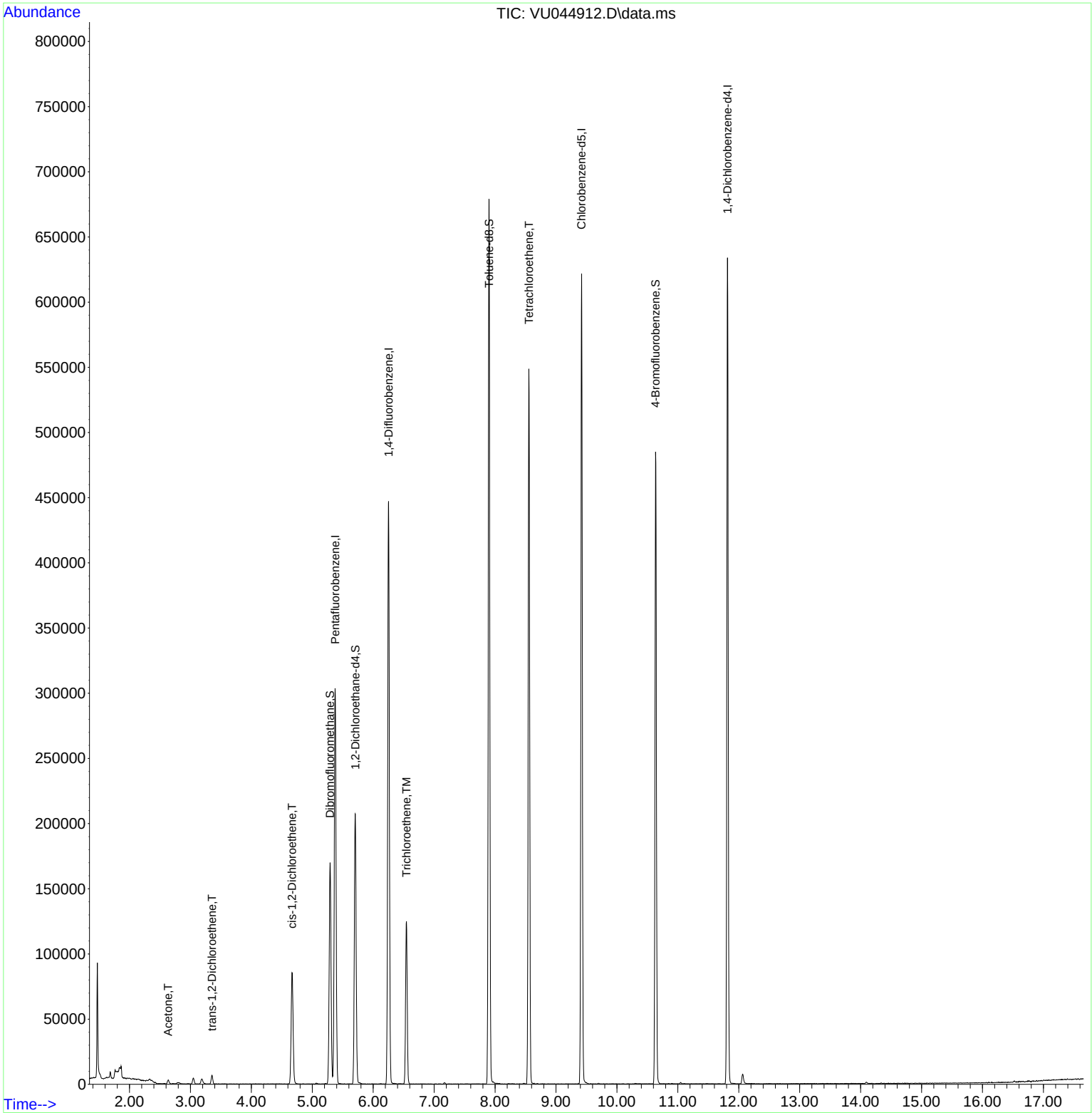
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.375	168	199198	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	347297	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	319540	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	152312	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	156139	44.912	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.820%		
35) Dibromofluoromethane	5.292	113	107536	45.135	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.280%		
50) Toluene-d8	7.903	98	434422	48.279	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.560%		
62) 4-Bromofluorobenzene	10.636	95	160878	48.136	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.280%		
Target Compounds						Qvalue
16) Acetone	2.633	43	3589	1.830	ug/l	95
21) trans-1,2-Dichloroethene	3.353	96	2646	1.030	ug/l	88
27) cis-1,2-Dichloroethene	4.668	96	42597	13.639	ug/l	88
44) Trichloroethene	6.546	130	39910	14.781	ug/l	97
64) Tetrachloroethene	8.555	164	113516	52.410	ug/l	96

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

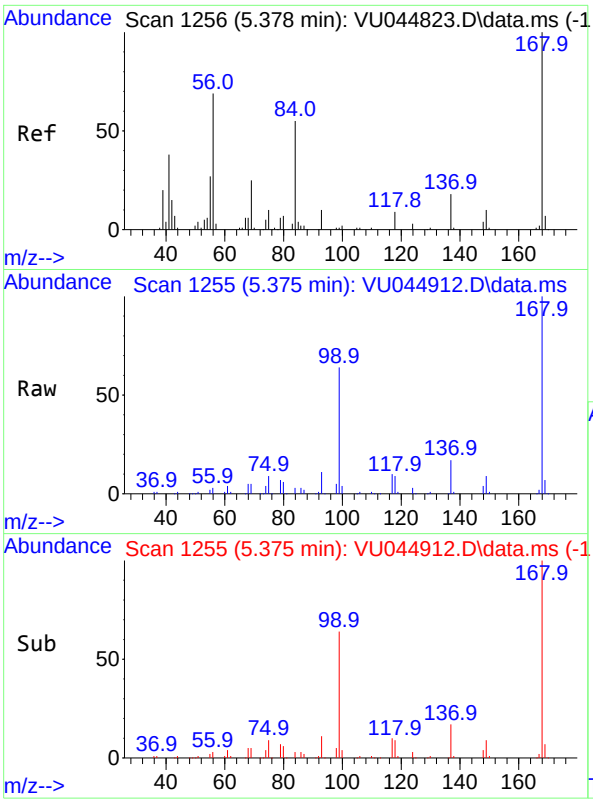
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044912.D
Acq On : 28 Sep 2021 01:31
Operator : SY/MD
Sample : M3859-03DL 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL

Quant Time: Sep 28 06:30:55 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



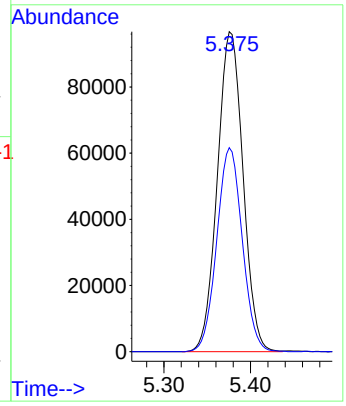
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL

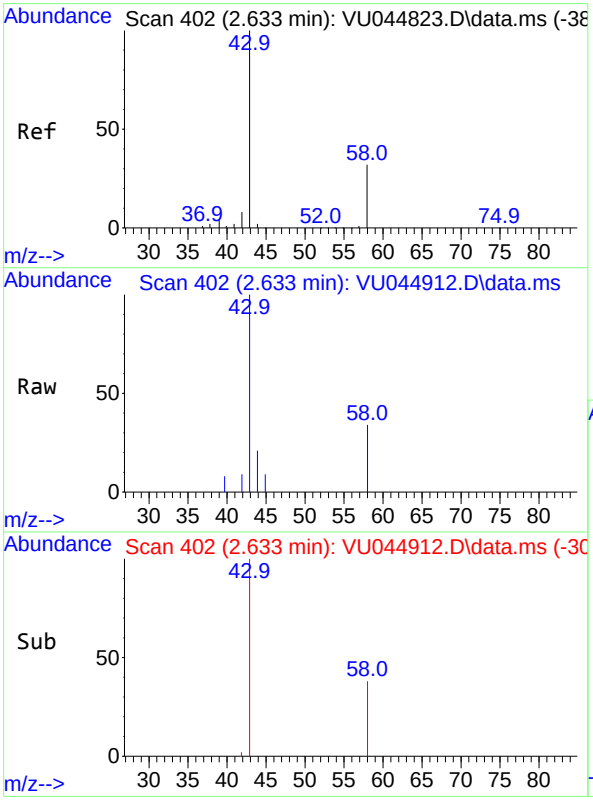


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.003 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion:168 Resp: 199198

Ion	Ratio	Lower	Upper
168	100		
99	63.7	51.4	77.0

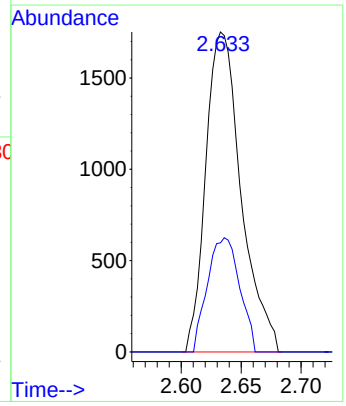




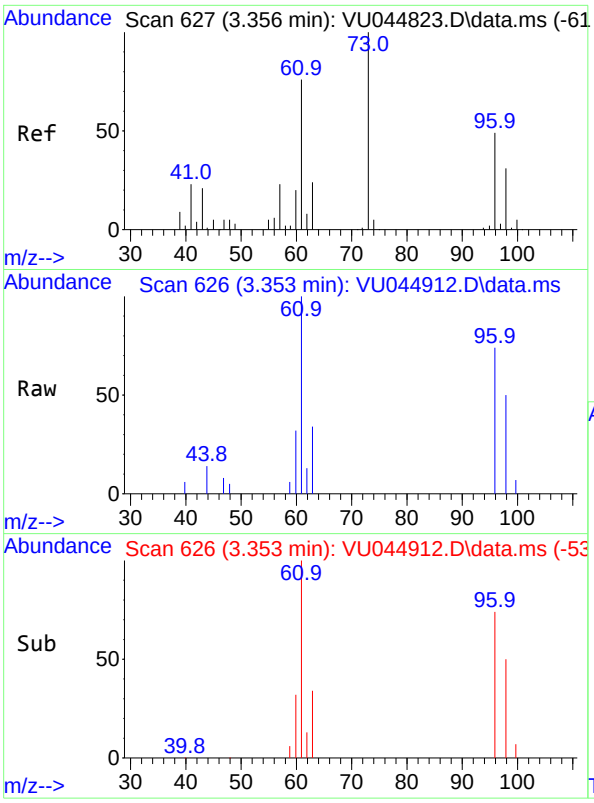
#16
Acetone
Concen: 1.830 ug/l
RT: 2.633 min Scan# 402
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion: 43 Resp: 3589

Ion	Ratio	Lower	Upper
43	100		
58	34.1	25.2	37.8



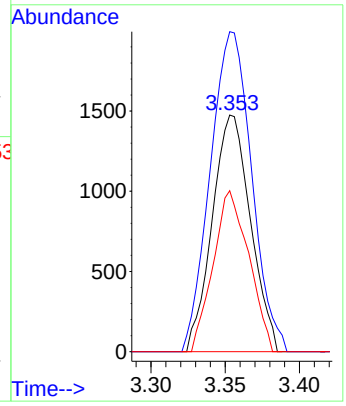
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL

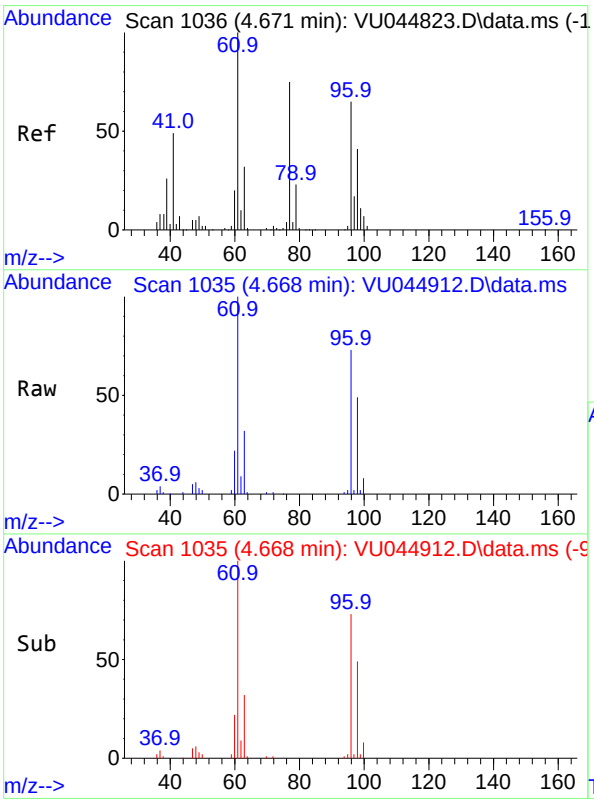


#21
trans-1,2-Dichloroethene
Concen: 1.030 ug/l
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion: 96 Resp: 2646

Ion	Ratio	Lower	Upper
96	100		
61	135.3	123.2	184.8
98	68.0	51.0	76.6

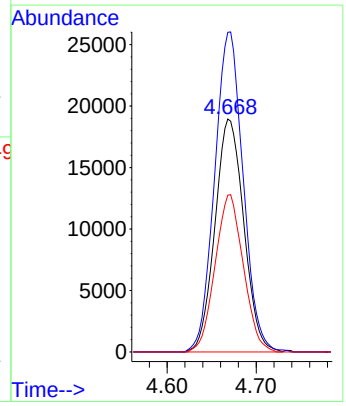




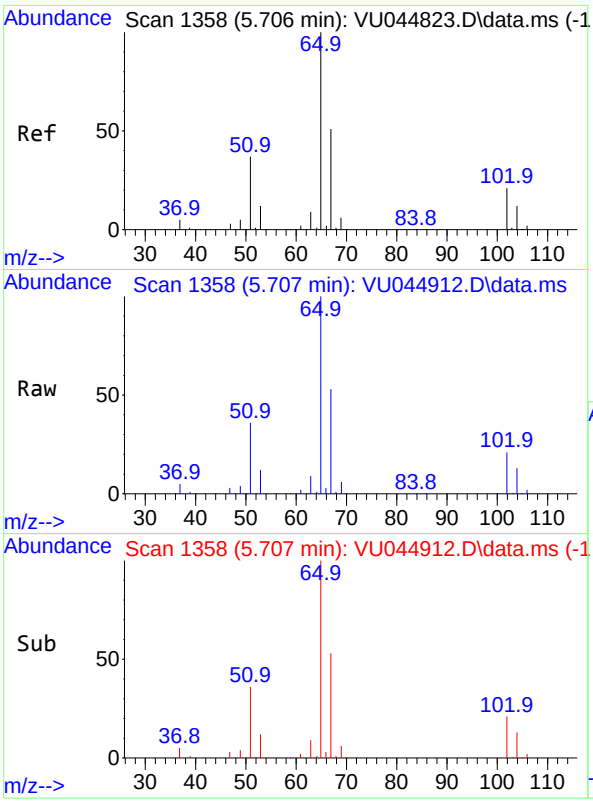
#27
cis-1,2-Dichloroethene
Concen: 13.639 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion: 96 Resp: 42597

Ion	Ratio	Lower	Upper
96	100		
61	135.7	0.0	313.4
98	66.1	0.0	127.0



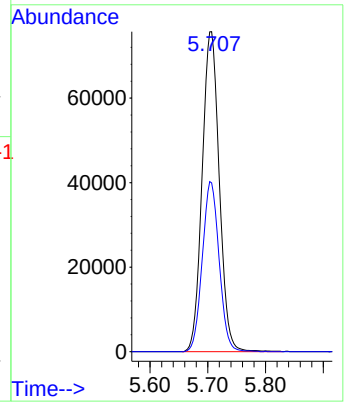
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL

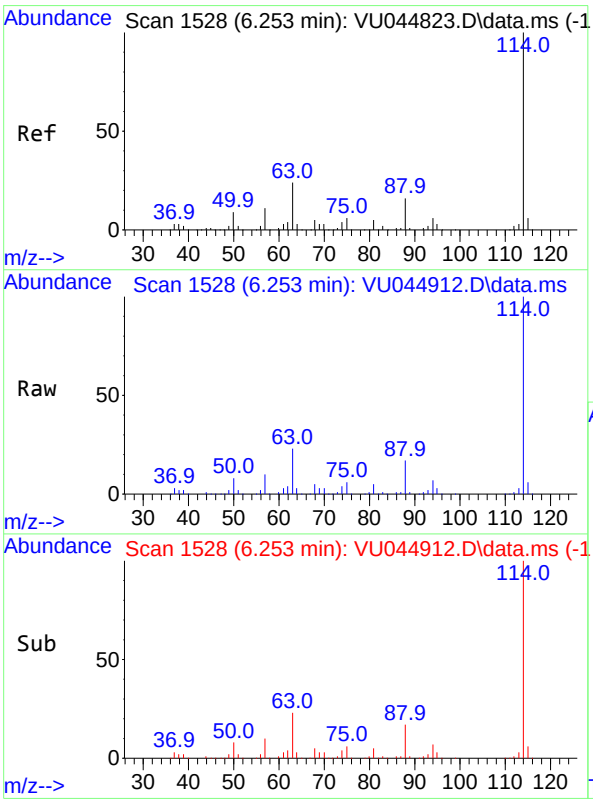


#33
1,2-Dichloroethane-d4
Concen: 44.912 ug/l
RT: 5.707 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion: 65 Resp: 156139

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.8

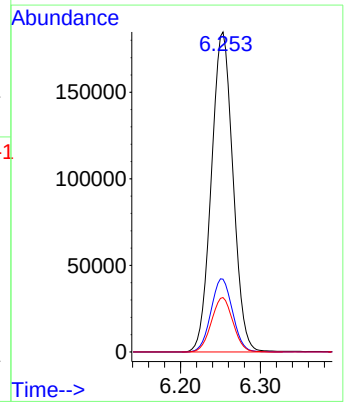




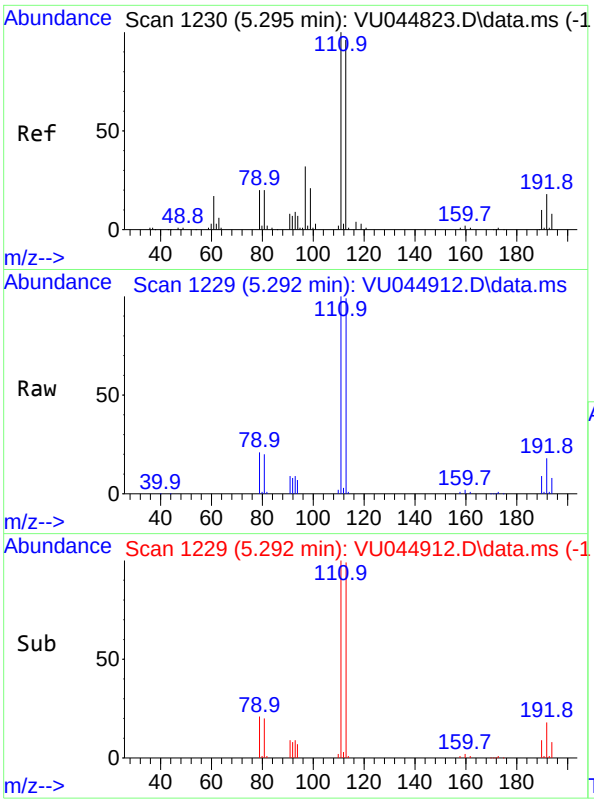
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion:114 Resp: 347297

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	47.8
88	17.0	0.0	32.8



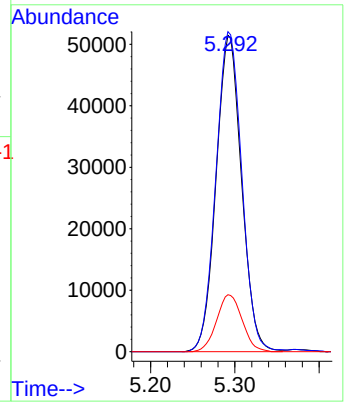
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL

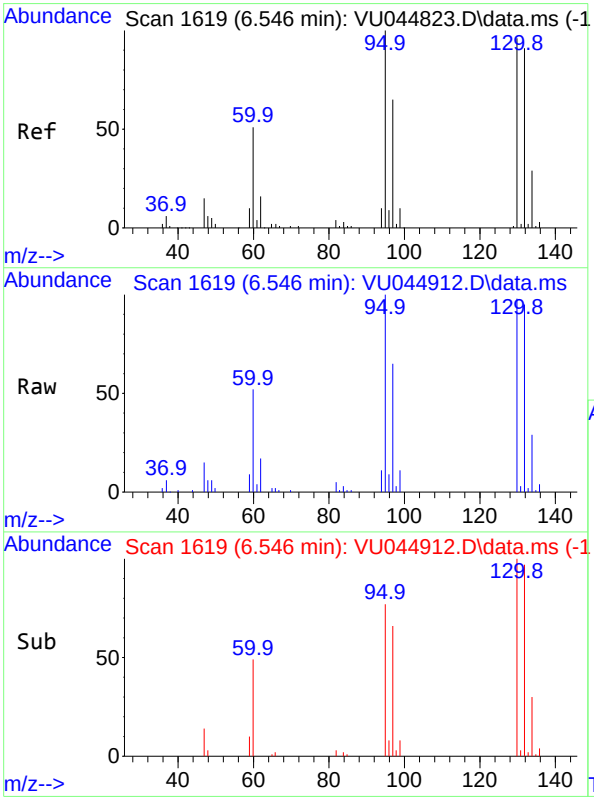


#35
Dibromofluoromethane
Concen: 45.135 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion:113 Resp: 107536

Ion	Ratio	Lower	Upper
113	100		
111	103.1	84.1	126.1
192	18.1	14.8	22.2

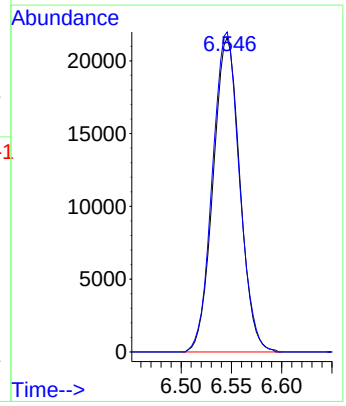




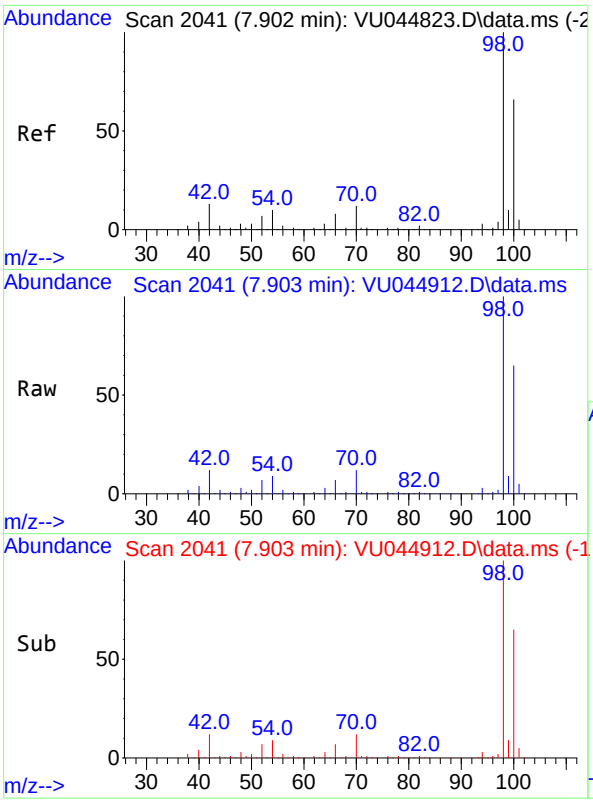
#44
Trichloroethene
Concen: 14.781 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion:130 Resp: 39910

Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	209.0



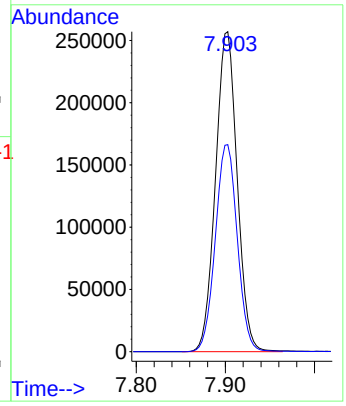
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL

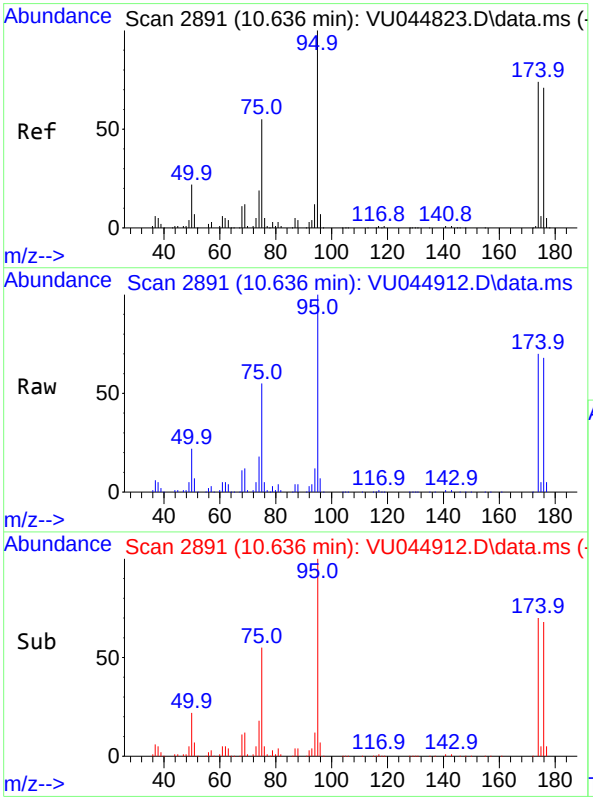


#50
Toluene-d8
Concen: 48.279 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion: 98 Resp: 434422

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.5	78.7

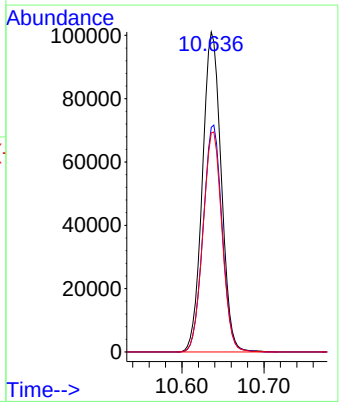




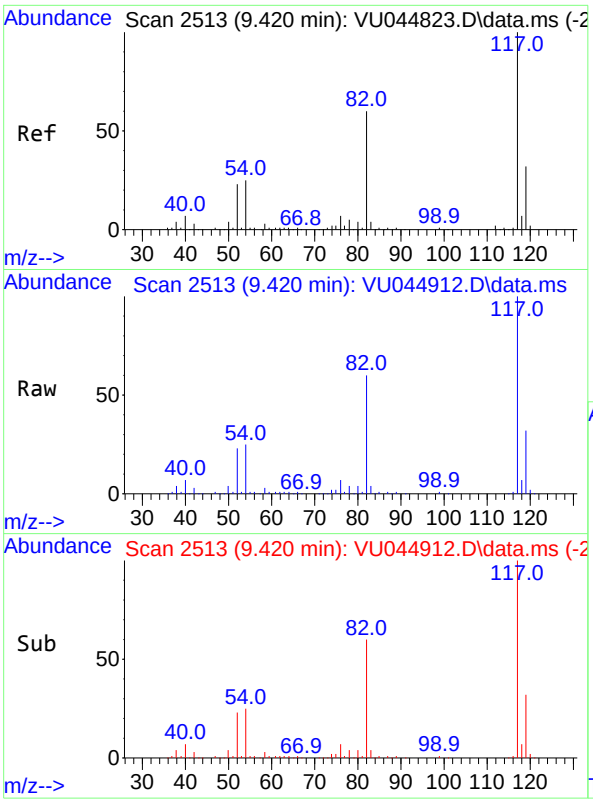
#62
4-Bromofluorobenzene
Concen: 48.136 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion: 95 Resp: 160878

Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	146.6
176	69.5	0.0	141.2



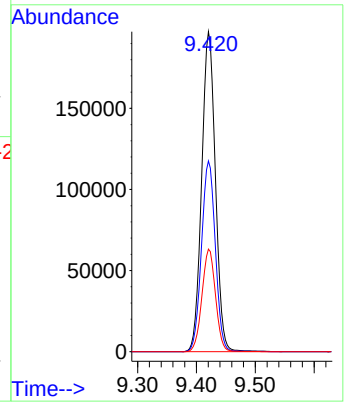
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL

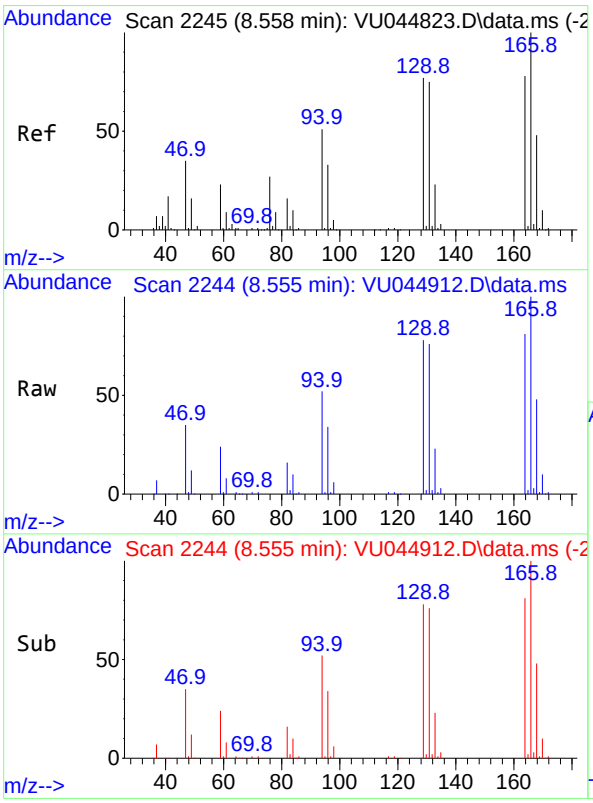


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion:117 Resp: 319540

Ion	Ratio	Lower	Upper
117	100		
82	59.6	47.8	71.8
119	32.0	25.8	38.6

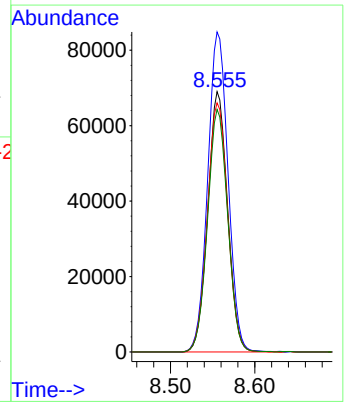




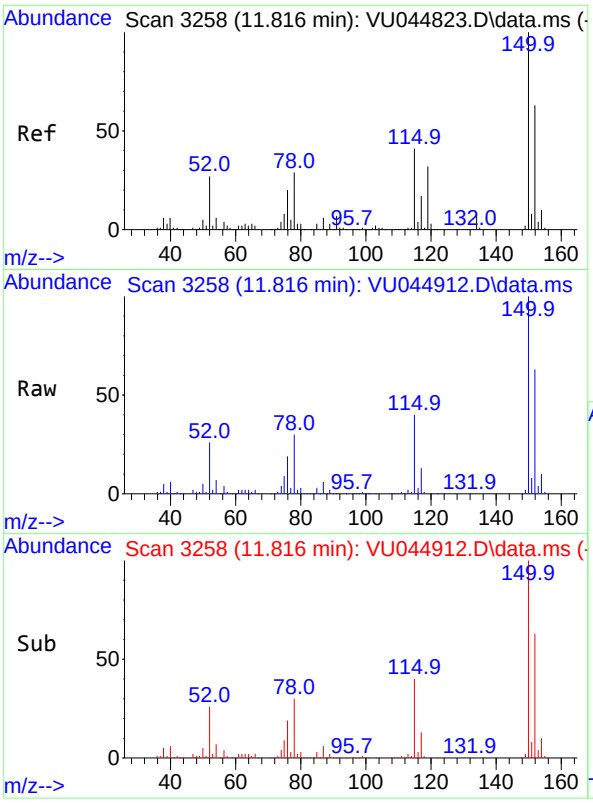
#64
Tetrachloroethene
Concen: 52.410 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion:164 Resp: 113516

Ion	Ratio	Lower	Upper
164	100		
166	123.0	102.8	154.2
129	95.7	79.4	119.2
131	93.2	77.4	116.2



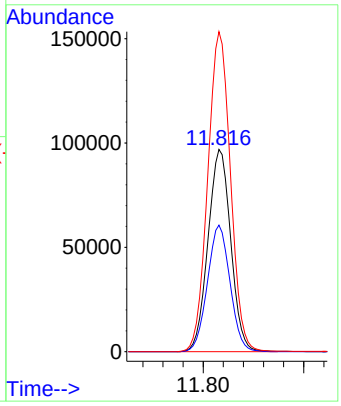
Instrument :
MSVOA_U
ClientSampleId :
1029-MW-03ADL



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044912.D
Acq: 28 Sep 2021 01:31

Tgt Ion:152 Resp: 152312

Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.5	130.7
150	158.1	0.0	350.0



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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1030-MW-11	SDG No.:	M3859
Lab Sample ID:	M3859-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044866.D	1		09/26/21 03:30	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	9.20		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	2.40	J	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.0		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	22.9		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1030-MW-11	SDG No.:	M3859
Lab Sample ID:	M3859-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044866.D	1		09/26/21 03:30	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	380	E	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		78 - 117	96%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	49.5		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		83 - 123	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	183000	5.379			
540-36-3	1,4-Difluorobenzene	321000	6.253			
3114-55-4	Chlorobenzene-d5	301000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	137000	11.816			
TENTATIVE IDENTIFIED COMPOUNDS						
109-99-9	Tetrahydrofuran	1.10	J		5.07	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1030-MW-11	SDG No.:	M3859
Lab Sample ID:	M3859-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044866.D	1		09/26/21 03:30	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044866.D
Acq On : 26 Sep 2021 03:30
Operator : SY/MD
Sample : M3859-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1030-MW-11

Quant Time: Sep 27 03:15:08 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	182863	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	321388	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	301230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	136939	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	153631	48.138	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.280%		
35) Dibromofluoromethane	5.295	113	103627	47.001	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.000%		
50) Toluene-d8	7.903	98	412462	49.533	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.060%		
62) 4-Bromofluorobenzene	10.636	95	143042	46.250	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.500%		
Target Compounds						Qvalue
16) Acetone	2.639	43	16480	9.155	ug/l	97
25) 2-Butanone	4.723	43	6568	2.405	ug/l	98
27) cis-1,2-Dichloroethene	4.674	96	48706	16.988	ug/l	88
29) Tetrahydrofuran	5.070	42	1839	1.070	ug/l	87
44) Trichloroethene	6.546	130	57178	22.883	ug/l	98
64) Tetrachloroethene	8.559	164	785818	384.865	ug/l	98

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

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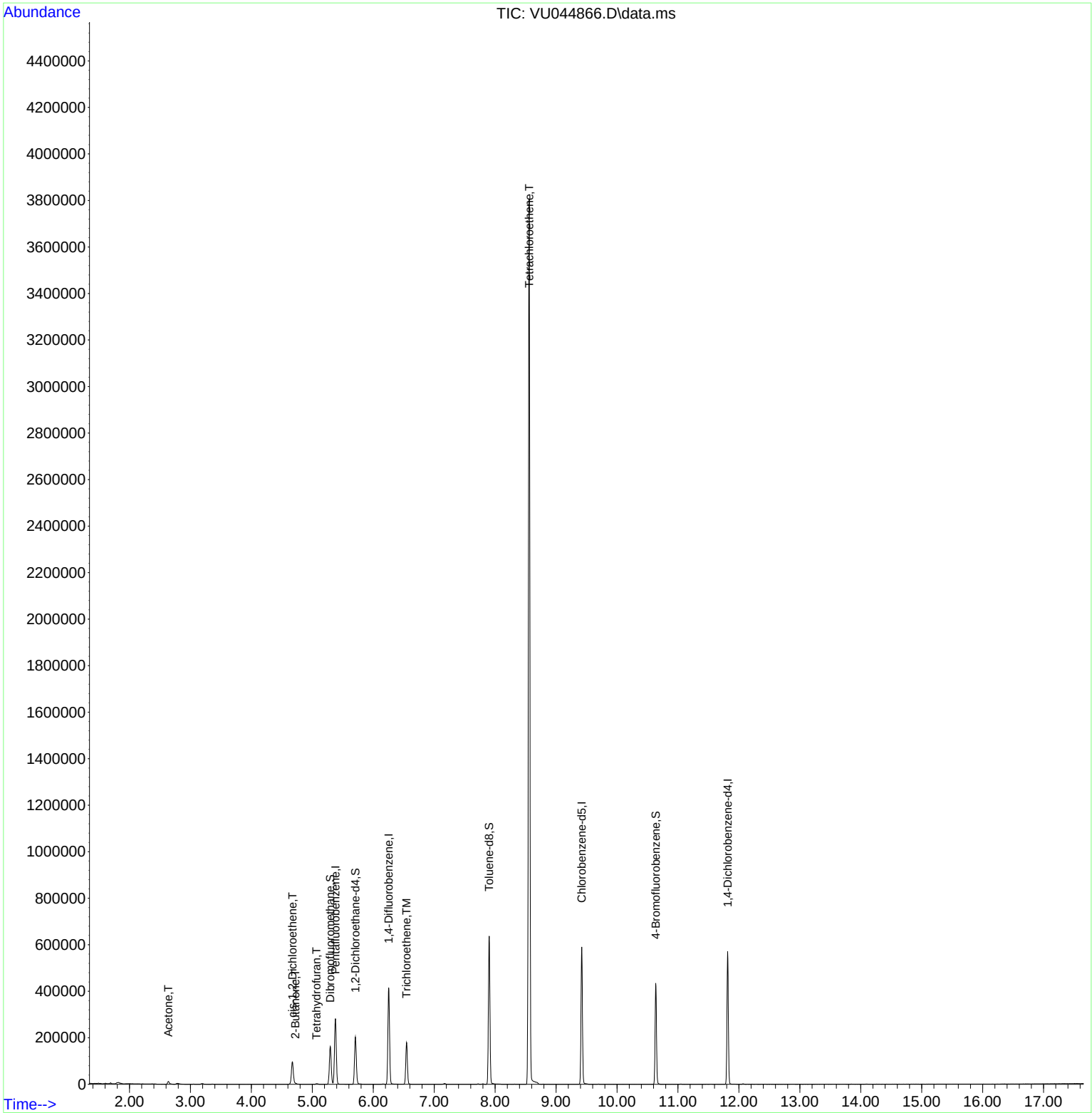
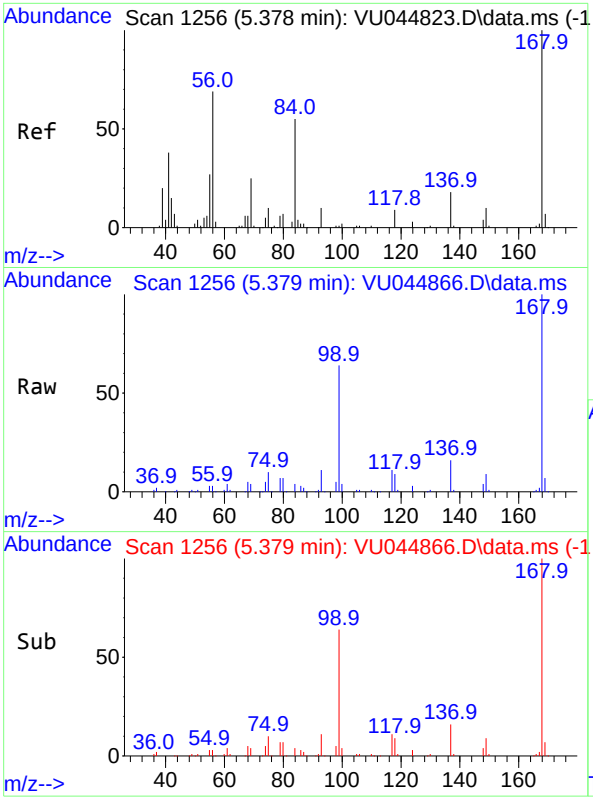


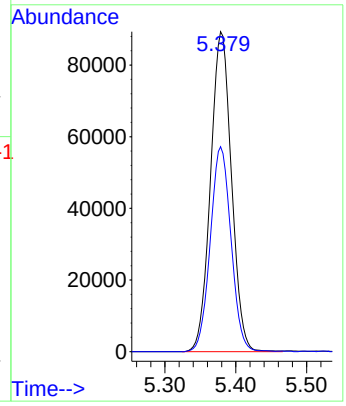
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

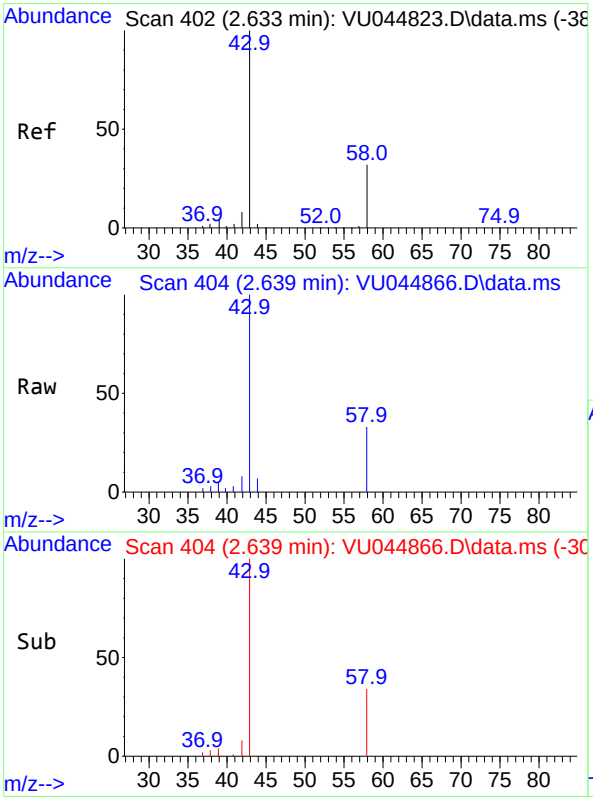


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion:168 Resp: 182863

Ion	Ratio	Lower	Upper
168	100		
99	64.0	51.4	77.0

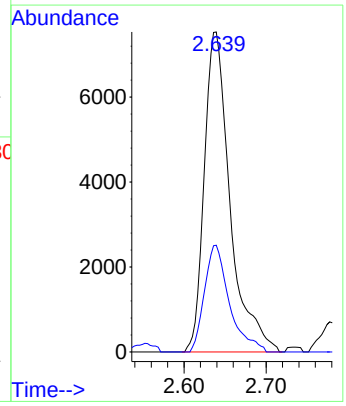




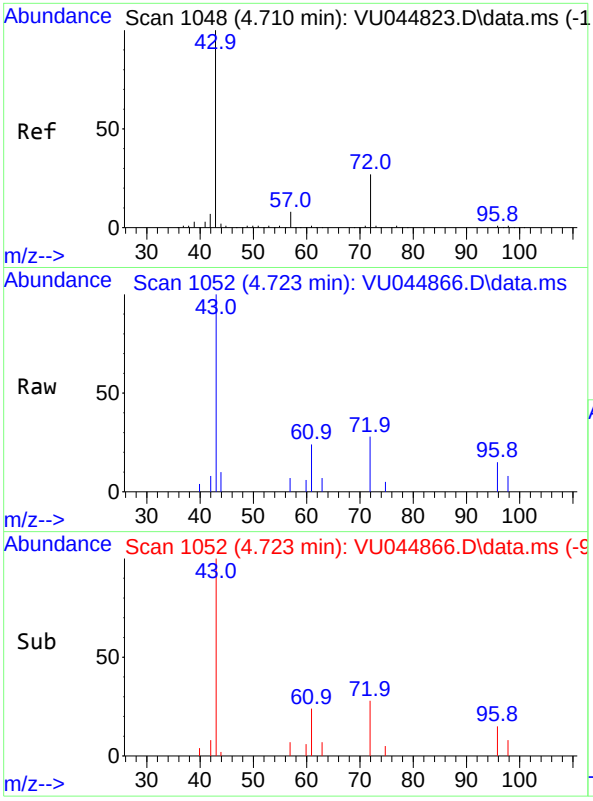
#16
Acetone
Concen: 9.155 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.007 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion: 43 Resp: 16480

Ion	Ratio	Lower	Upper
43	100		
58	33.3	25.2	37.8



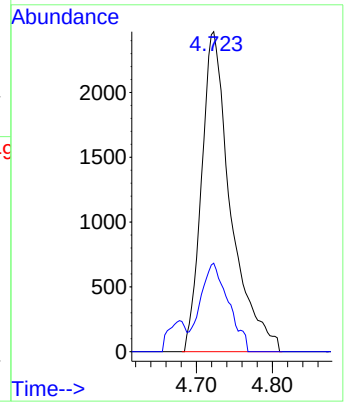
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

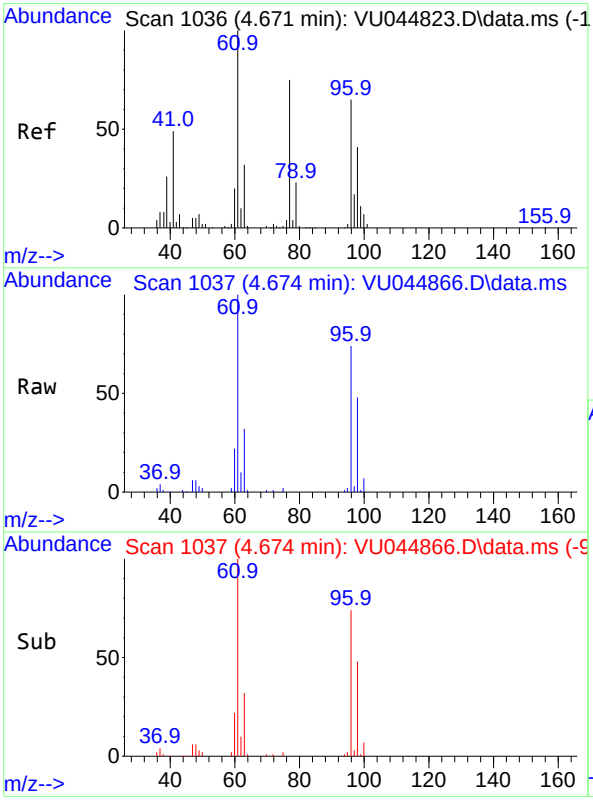


#25
2-Butanone
Concen: 2.405 ug/l
RT: 4.723 min Scan# 1052
Delta R.T. 0.013 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion: 43 Resp: 6568

Ion	Ratio	Lower	Upper
43	100		
72	27.7	21.3	31.9

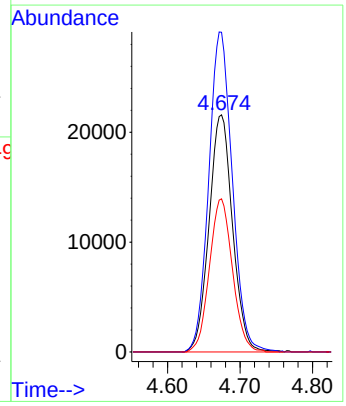




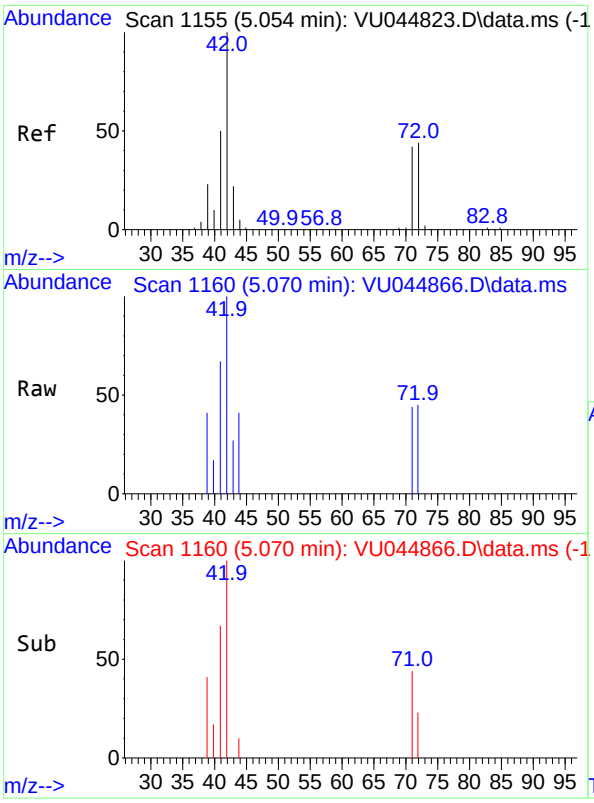
#27
cis-1,2-Dichloroethene
Concen: 16.988 ug/l
RT: 4.674 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion: 96 Resp: 48706

Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	313.4
98	63.3	0.0	127.0



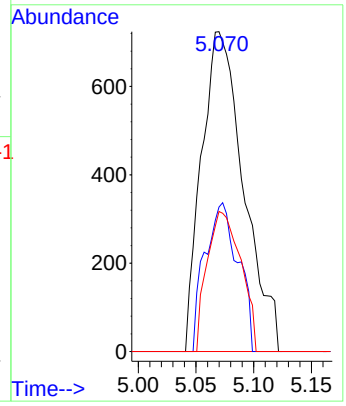
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

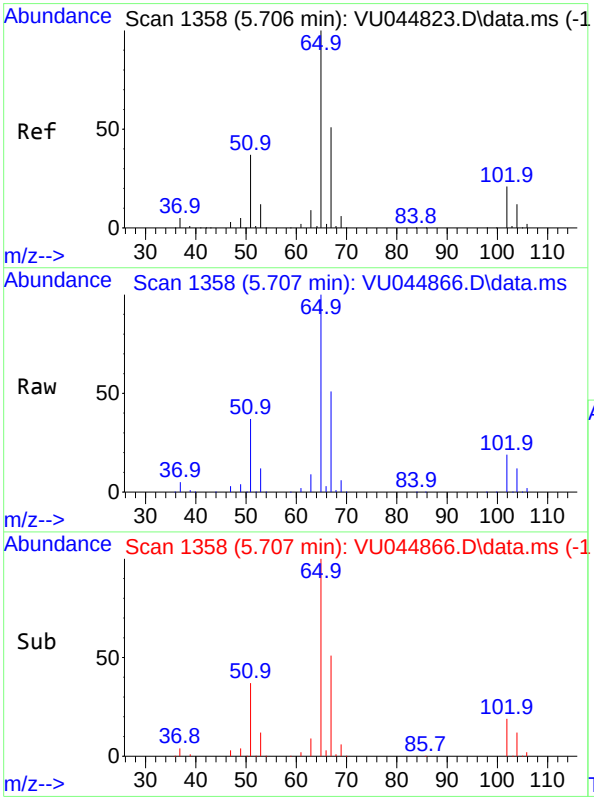


#29
Tetrahydrofuran
Concen: 1.070 ug/l
RT: 5.070 min Scan# 1160
Delta R.T. 0.016 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion: 42 Resp: 1839

Ion	Ratio	Lower	Upper
42	100		
72	36.6	36.2	54.4
71	35.0	34.1	51.1

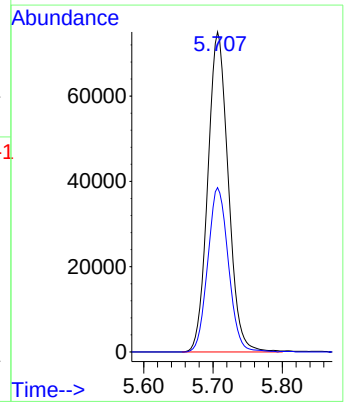




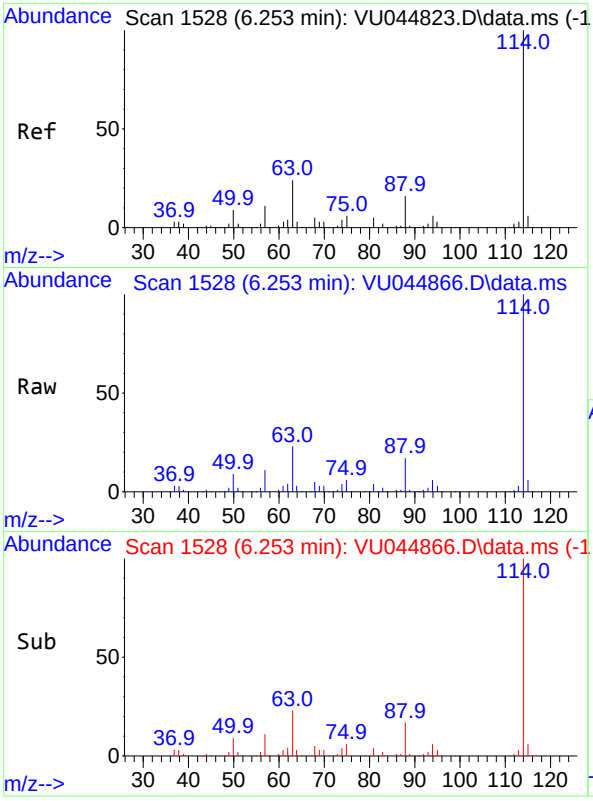
#33
1,2-Dichloroethane-d4
Concen: 48.138 ug/l
RT: 5.707 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion: 65 Resp: 153631

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.8



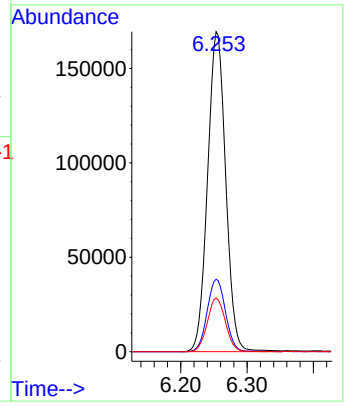
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

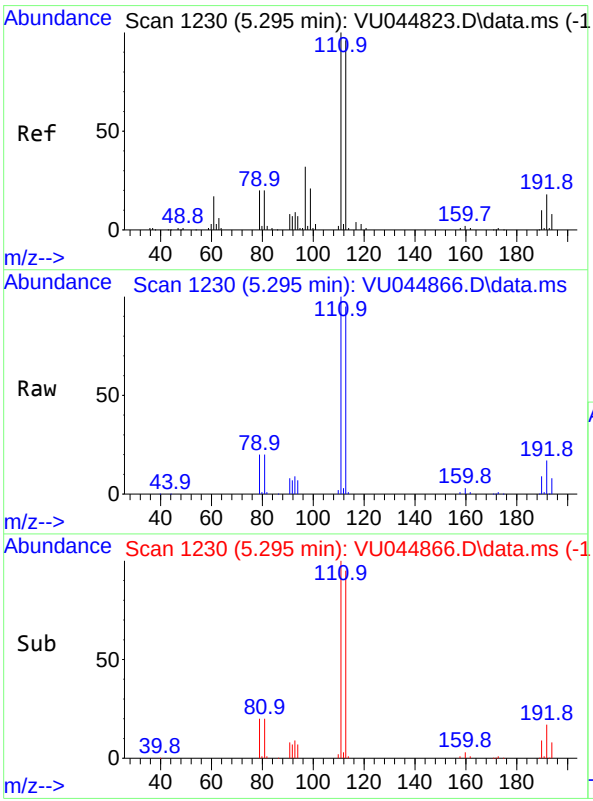


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion:114 Resp: 321388

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	47.8
88	16.8	0.0	32.8

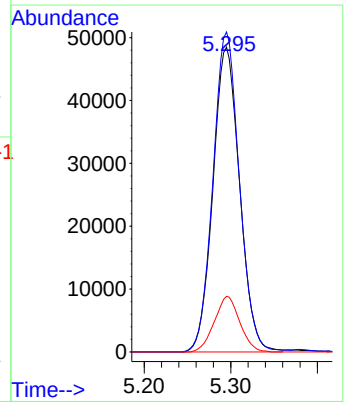




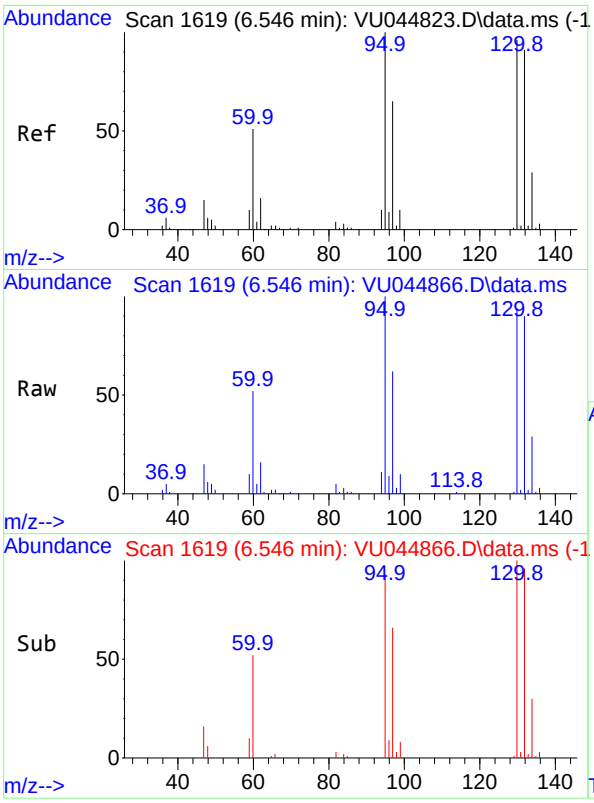
#35
Dibromofluoromethane
Concen: 47.001 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion:113 Resp: 103627

Ion	Ratio	Lower	Upper
113	100		
111	104.1	84.1	126.1
192	17.4	14.8	22.2



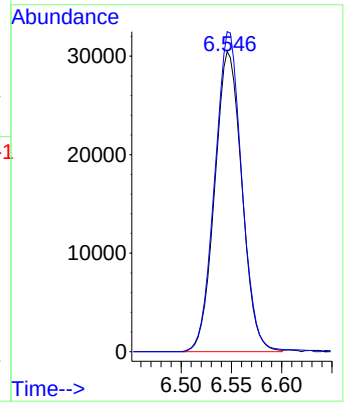
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

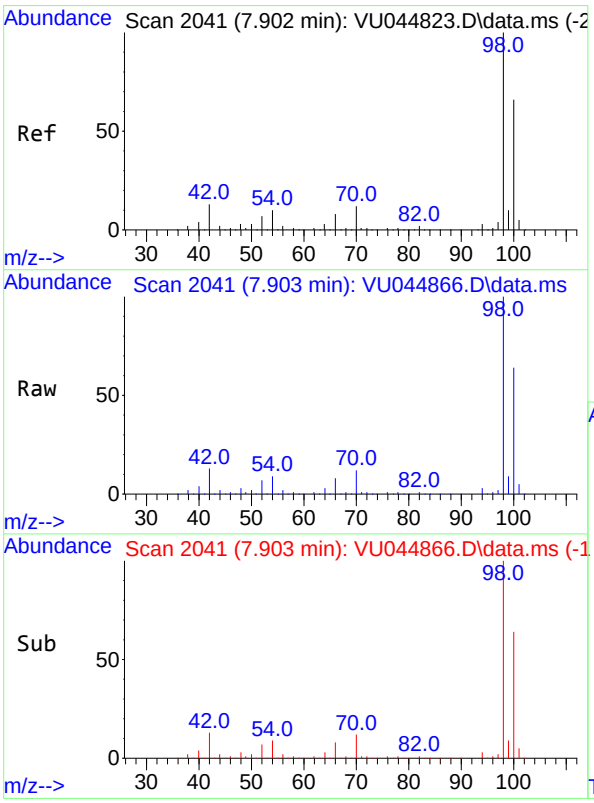


#44
Trichloroethene
Concen: 22.883 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion:130 Resp: 57178

Ion	Ratio	Lower	Upper
130	100		
95	106.6	0.0	209.0

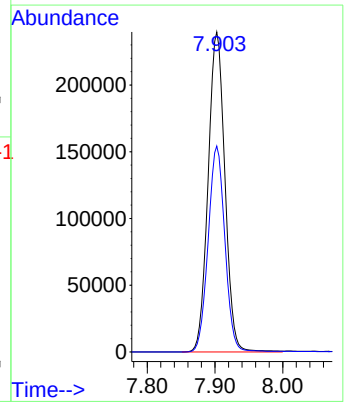




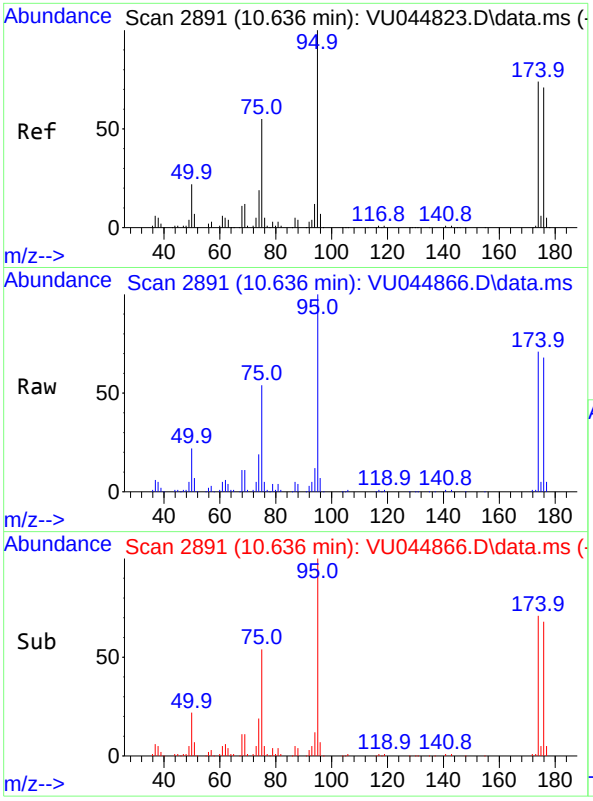
#50
Toluene-d8
Concen: 49.533 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion: 98 Resp: 412462

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.5	78.7



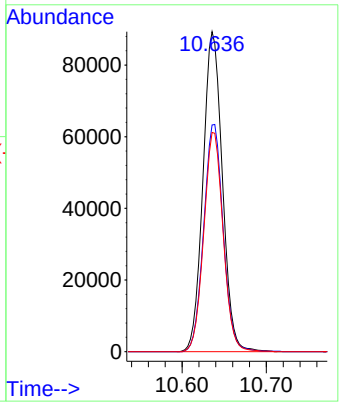
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

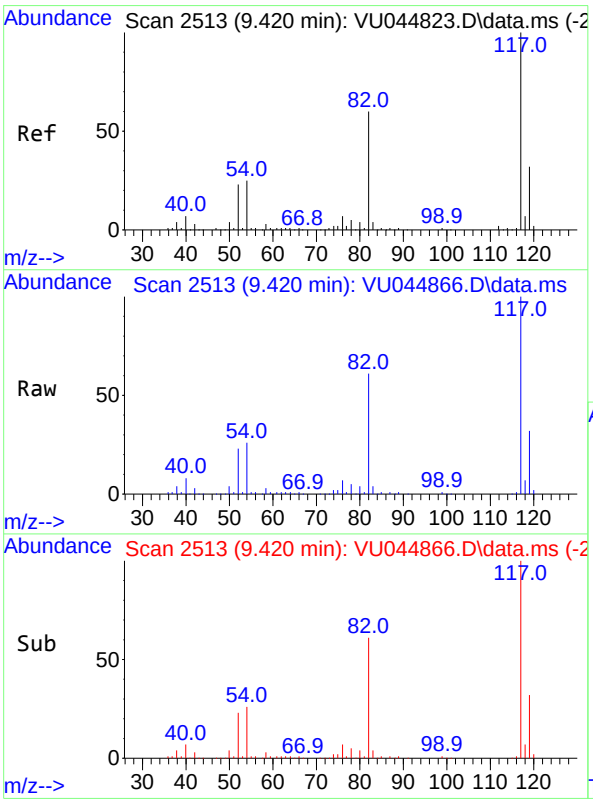


#62
4-Bromofluorobenzene
Concen: 46.250 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion: 95 Resp: 143042

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	146.6
176	68.5	0.0	141.2

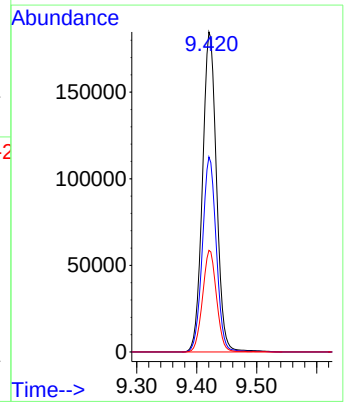




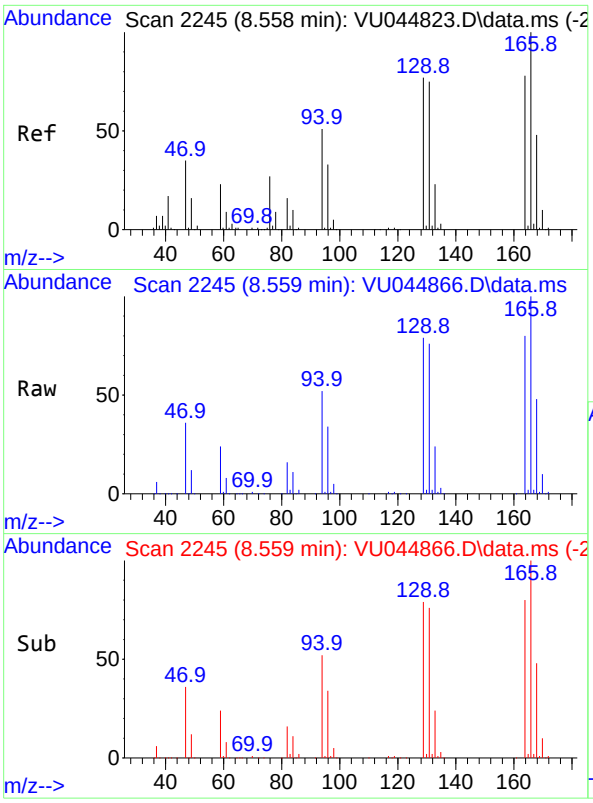
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion:117 Resp: 301230

Ion	Ratio	Lower	Upper
117	100		
82	60.9	47.8	71.8
119	31.8	25.8	38.6



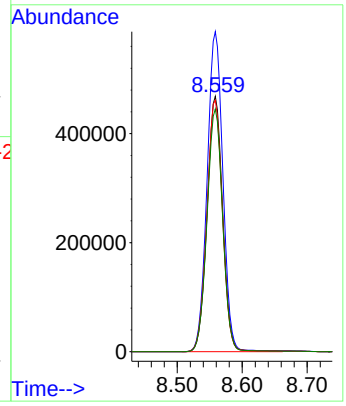
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

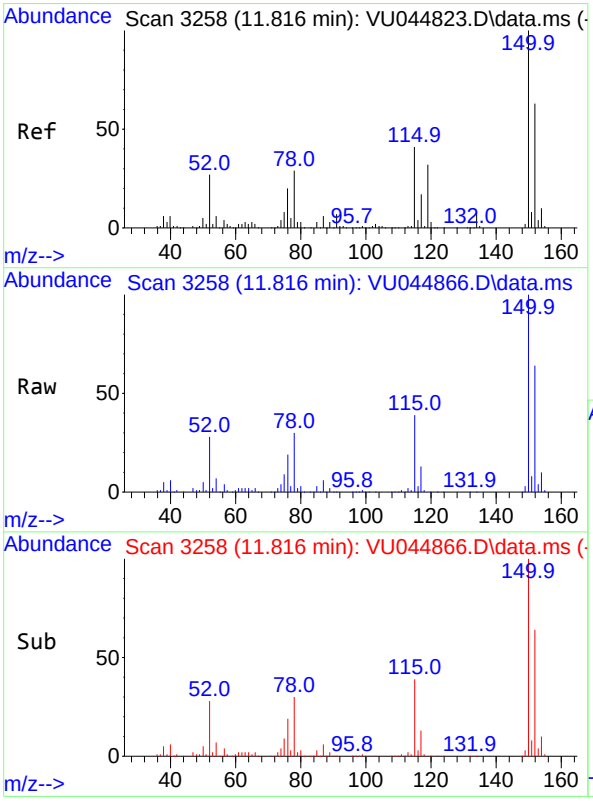


#64
Tetrachloroethene
Concen: 384.865 ug/l
RT: 8.559 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion:164 Resp: 785818

Ion	Ratio	Lower	Upper
164	100		
166	125.3	102.8	154.2
129	98.6	79.4	119.2
131	95.1	77.4	116.2

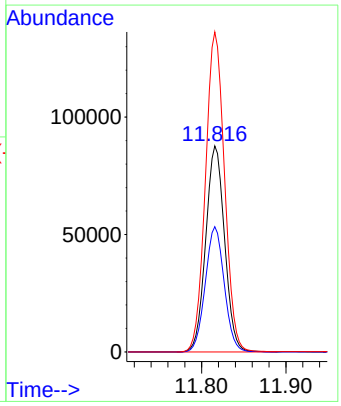




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044866.D
Acq: 26 Sep 2021 03:30

Tgt Ion:152 Resp: 136939

Ion	Ratio	Lower	Upper
152	100		
115	61.1	43.5	130.7
150	156.6	0.0	350.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044866.D
Acq On : 26 Sep 2021 03:30
Operator : SY/MD
Sample : M3859-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1030-MW-11

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044866.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.674	1015	1037	1074	rBV	96224	227598	3.53%	1.785%
2	5.295	1212	1230	1243	rBV	161670	340843	5.29%	2.673%
3	5.379	1243	1256	1274	rVB	281631	572590	8.89%	4.491%
4	5.707	1343	1358	1380	rBV2	202505	415668	6.46%	3.260%
5	6.253	1512	1528	1559	rBV	414976	783902	12.17%	6.148%
6	6.546	1605	1619	1642	rVB	179502	336782	5.23%	2.641%
7	7.903	2025	2041	2057	rBV	637274	1097416	17.04%	8.607%
8	8.559	2229	2245	2297	rBV	3805301	6438953	100.00%	50.498%
9	9.420	2500	2513	2534	rBV	590570	955354	14.84%	7.492%
10	10.636	2878	2891	2911	rBV	434329	687264	10.67%	5.390%
11	11.816	3244	3258	3281	rBV	570076	894448	13.89%	7.015%

Sum of corrected areas: 12750818

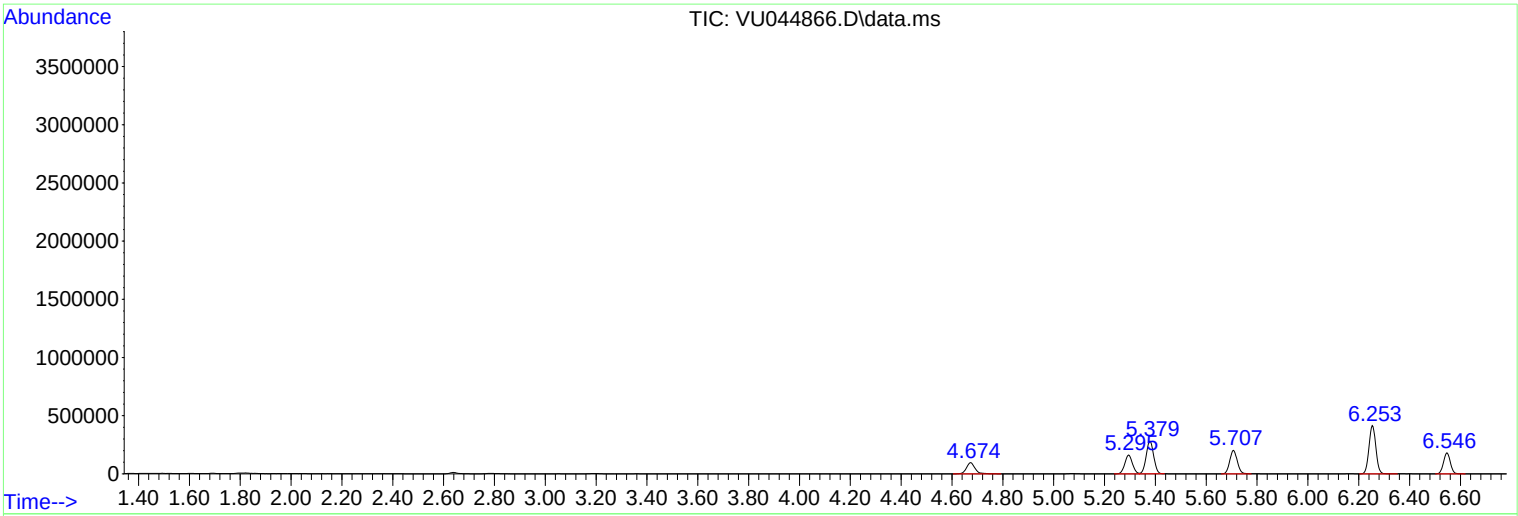
Sample Results: **VU044866.D**

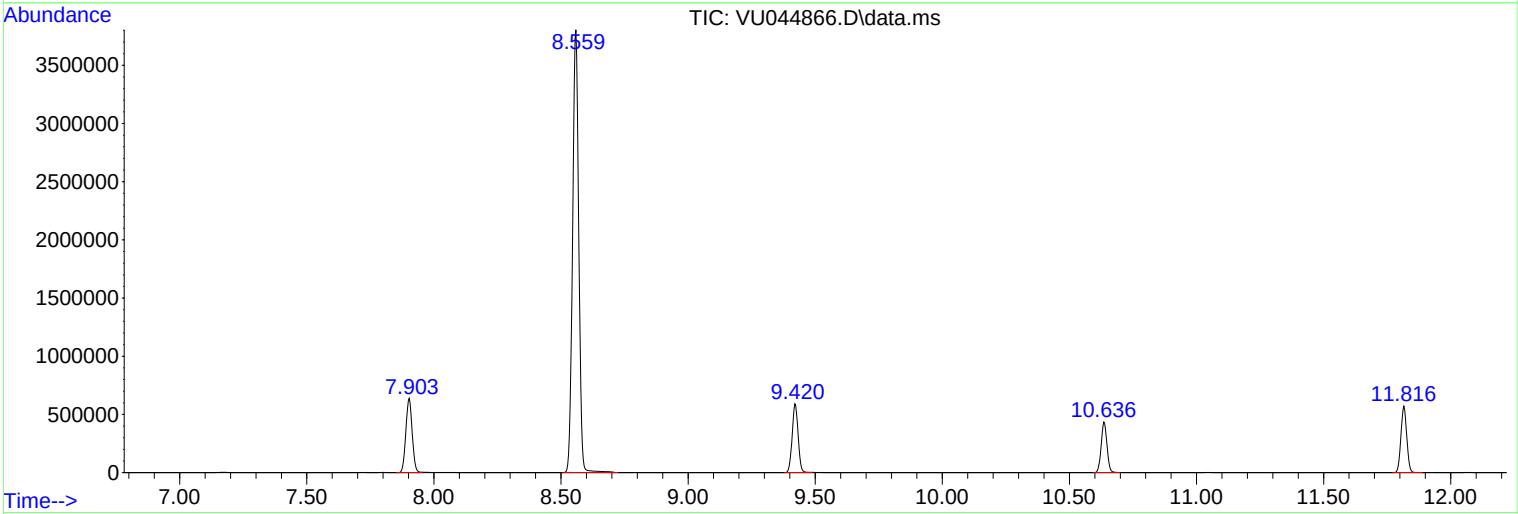
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044866.D
Acq On : 26 Sep 2021 03:30
Operator : SY/MD
Sample : M3859-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

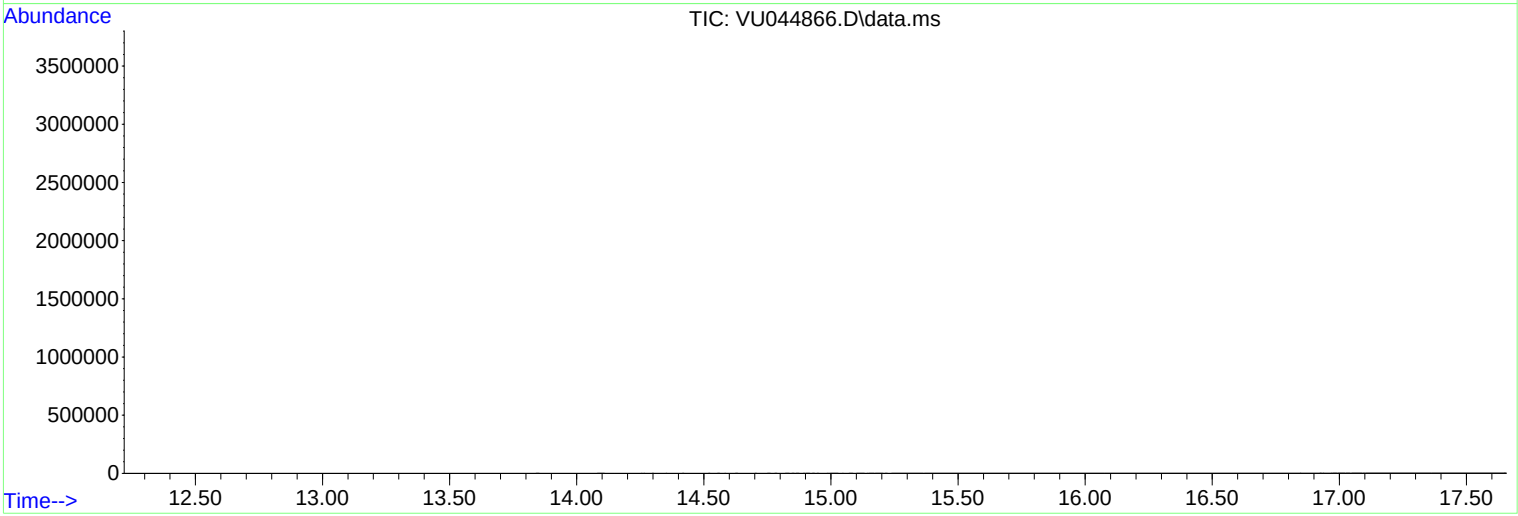
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044866.D
Acq On : 26 Sep 2021 03:30
Operator : SY/MD
Sample : M3859-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044866.D
Acq On : 26 Sep 2021 03:30
Operator : SY/MD
Sample : M3859-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1030-MW-11DL	SDG No.:	M3859
Lab Sample ID:	M3859-04DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044902.D	5		09/27/21 20:26	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	UD	1.20	5.00	ug/L
74-87-3	Chloromethane	5.00	UD	1.00	5.00	ug/L
75-01-4	Vinyl Chloride	5.00	UD	0.97	5.00	ug/L
74-83-9	Bromomethane	25.0	UDQ	4.30	25.0	ug/L
75-00-3	Chloroethane	5.00	UD	1.80	5.00	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	1.20	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	UD	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	UD	1.30	5.00	ug/L
67-64-1	Acetone	11.1	JD	8.10	25.0	ug/L
75-15-0	Carbon Disulfide	5.00	UD	1.30	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	1.10	5.00	ug/L
79-20-9	Methyl Acetate	5.00	UD	2.30	5.00	ug/L
75-09-2	Methylene Chloride	5.00	UD	0.90	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	UD	0.96	5.00	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	1.00	5.00	ug/L
110-82-7	Cyclohexane	25.0	UD	6.50	25.0	ug/L
78-93-3	2-Butanone	25.0	UD	4.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	1.40	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	15.5	D	1.10	5.00	ug/L
74-97-5	Bromochloromethane	5.00	UD	1.30	5.00	ug/L
67-66-3	Chloroform	5.00	UD	1.30	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	0.98	5.00	ug/L
108-87-2	Methylcyclohexane	5.00	UD	0.71	5.00	ug/L
71-43-2	Benzene	5.00	UD	0.91	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	1.20	5.00	ug/L
79-01-6	Trichloroethene	21.6	D	0.87	5.00	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	0.85	5.00	ug/L
75-27-4	Bromodichloromethane	5.00	UD	0.99	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	4.30	25.0	ug/L
108-88-3	Toluene	5.00	UD	1.10	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	5.00	UD	0.89	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	0.83	5.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1030-MW-11DL	SDG No.:	M3859
Lab Sample ID:	M3859-04DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044902.D	5		09/27/21 20:26	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	5.00	UD	1.20	5.00	ug/L
591-78-6	2-Hexanone	25.0	UD	4.60	25.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	0.89	5.00	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	0.82	5.00	ug/L
127-18-4	Tetrachloroethene	360	D	0.84	5.00	ug/L
108-90-7	Chlorobenzene	5.00	UD	0.83	5.00	ug/L
100-41-4	Ethyl Benzene	5.00	UD	0.91	5.00	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	1.60	10.0	ug/L
95-47-6	o-Xylene	5.00	UD	0.94	5.00	ug/L
100-42-5	Styrene	5.00	UD	0.82	5.00	ug/L
75-25-2	Bromoform	5.00	UD	0.96	5.00	ug/L
98-82-8	Isopropylbenzene	5.00	UD	1.20	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	1.50	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	0.97	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	0.99	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	0.94	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	UD	2.40	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	1.50	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.00	UD	1.70	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.7		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	43.8		75 - 124	88%	SPK: 50
2037-26-5	Toluene-d8	48.3		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		83 - 123	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	5.378			
540-36-3	1,4-Difluorobenzene	361000	6.253			
3114-55-4	Chlorobenzene-d5	335000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	162000	11.815			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1030-MW-11DL	SDG No.:	M3859
Lab Sample ID:	M3859-04DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044902.D	5		09/27/21 20:26	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044902.D
Acq On : 27 Sep 2021 20:26
Operator : SY/MD
Sample : M3859-04DL 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1030-MW-11DL

Quant Time: Sep 28 06:28:51 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

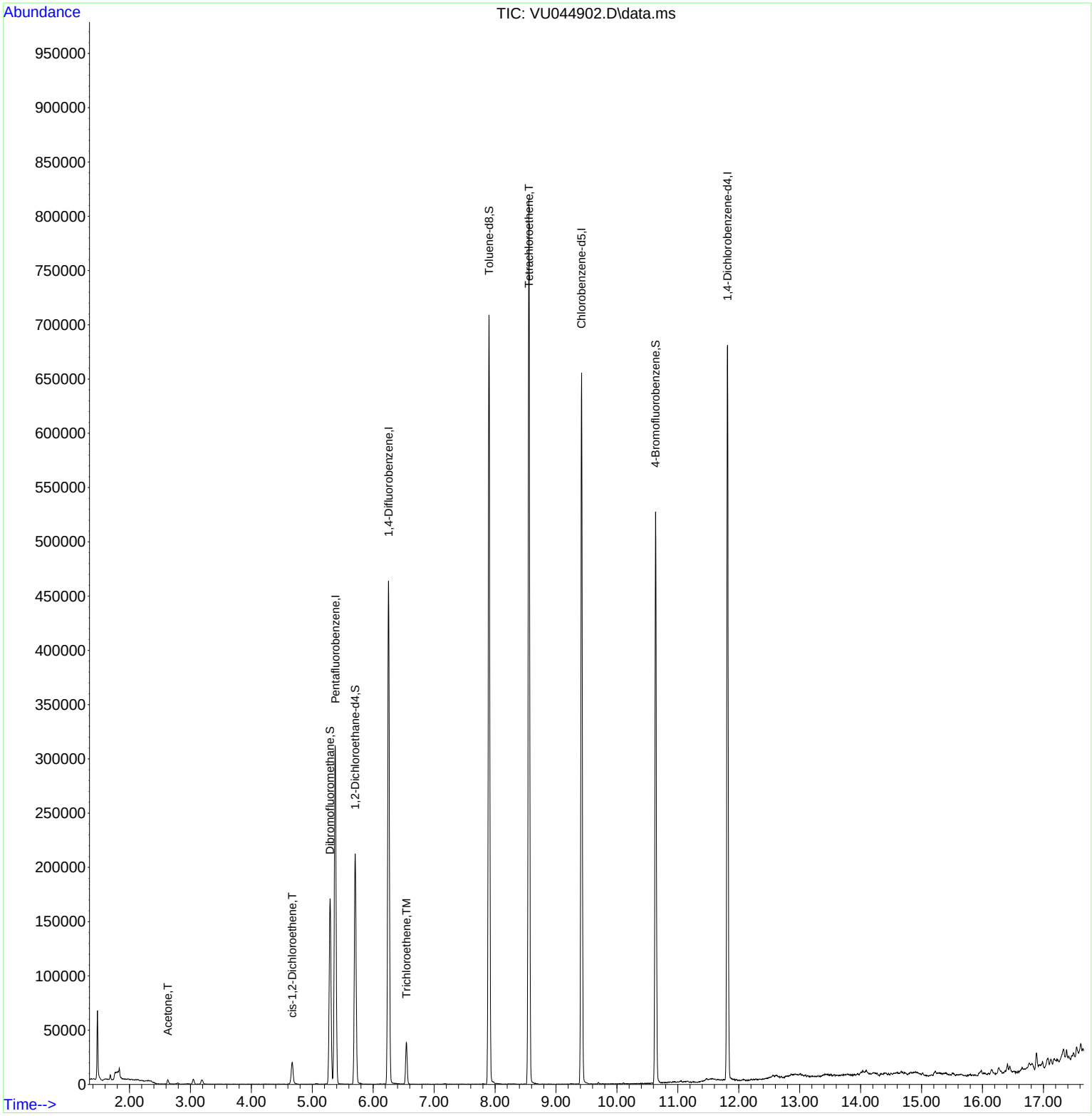
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	203141	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	360501	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	335220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	161789	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	158571	44.726	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.460%		
35) Dibromofluoromethane	5.292	113	108381	43.824	ug/l	0.00
Spiked Amount 50.000			Recovery =	87.640%		
50) Toluene-d8	7.902	98	450959	48.281	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.560%		
62) 4-Bromofluorobenzene	10.635	95	172442	49.707	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.420%		
Target Compounds						Qvalue
16) Acetone	2.629	43	4433	2.217	ug/l	94
27) cis-1,2-Dichloroethene	4.671	96	9880	3.102	ug/l	90
44) Trichloroethene	6.546	130	12104	4.319	ug/l	98
64) Tetrachloroethene	8.555	164	164833	72.544	ug/l	98

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

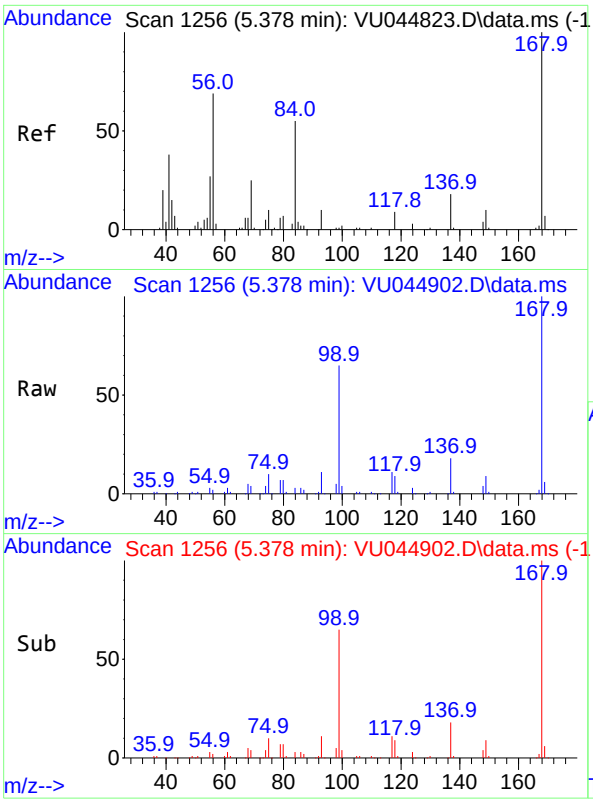
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044902.D
Acq On : 27 Sep 2021 20:26
Operator : SY/MD
Sample : M3859-04DL 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11DL

Quant Time: Sep 28 06:28:51 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



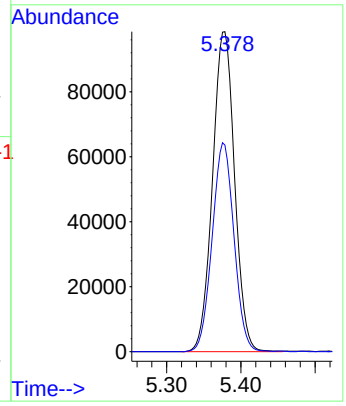
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11DL

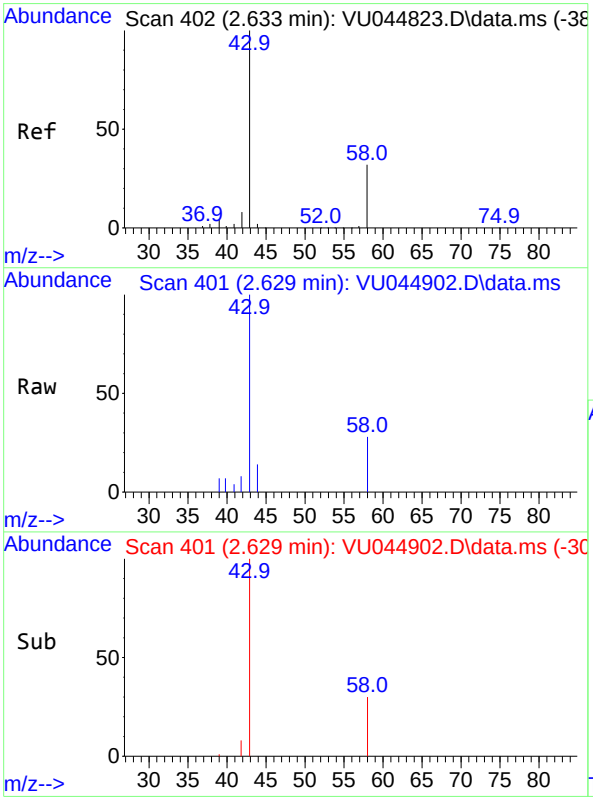


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion:168 Resp: 203141

Ion	Ratio	Lower	Upper
168	100		
99	64.6	51.4	77.0

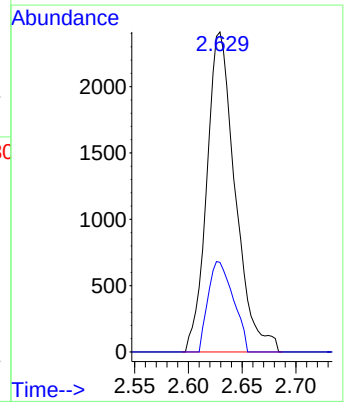




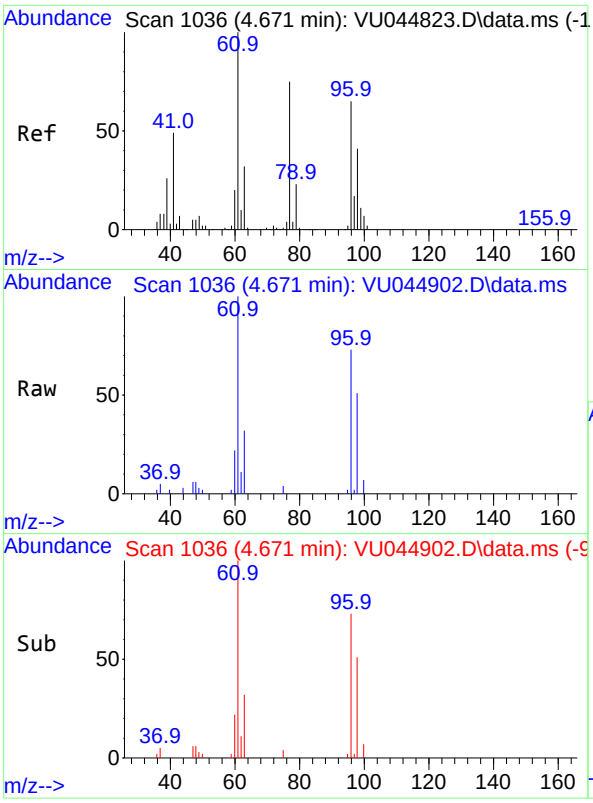
#16
Acetone
Concen: 2.217 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion: 43 Resp: 4433

Ion	Ratio	Lower	Upper
43	100		
58	28.0	25.2	37.8



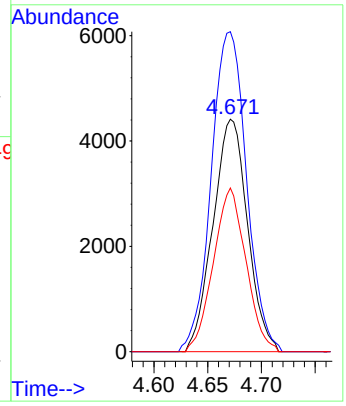
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11DL

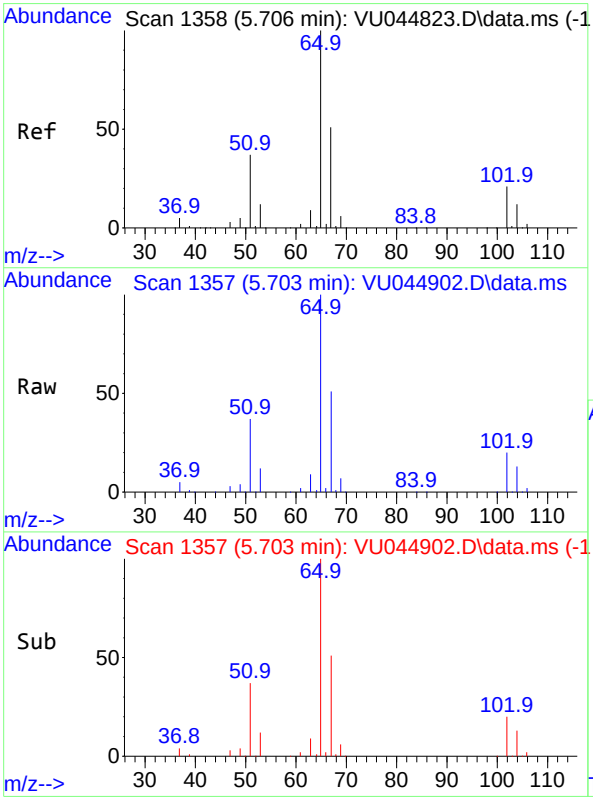


#27
cis-1,2-Dichloroethene
Concen: 3.102 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion: 96 Resp: 9880

Ion	Ratio	Lower	Upper
96	100		
61	140.2	0.0	313.4
98	66.3	0.0	127.0

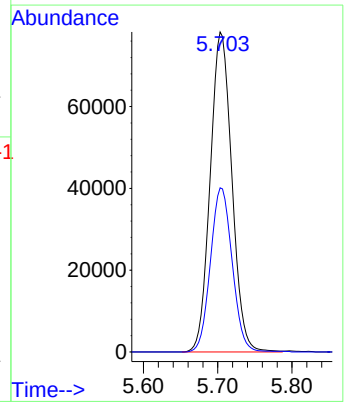




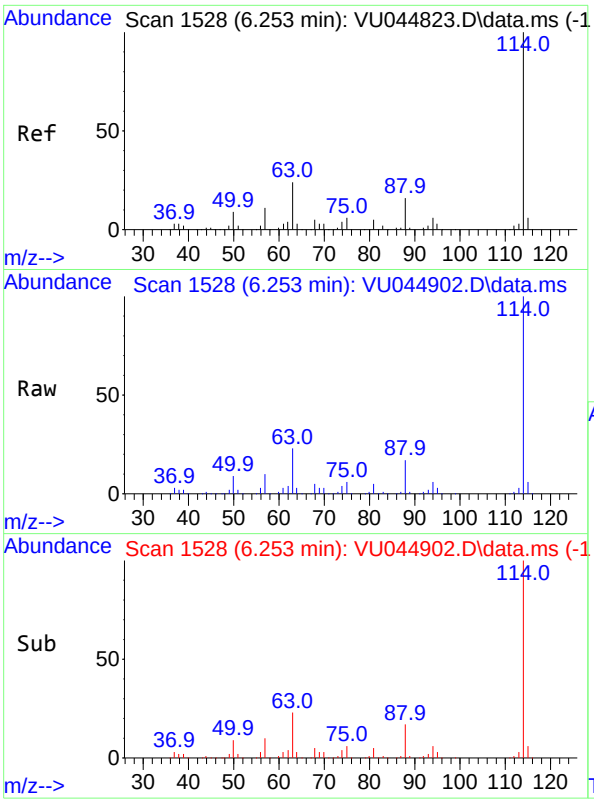
#33
1,2-Dichloroethane-d4
Concen: 44.726 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion: 65 Resp: 158571

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.8



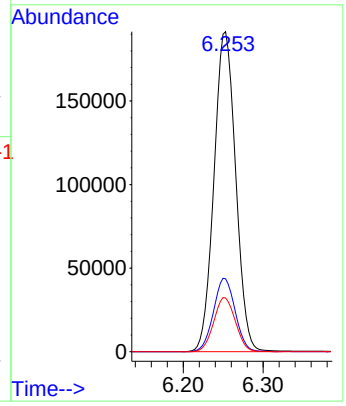
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11DL

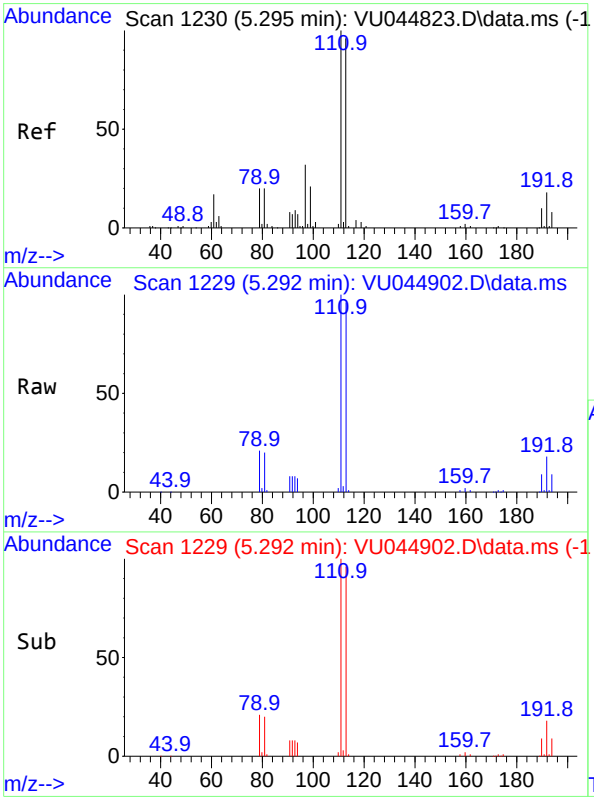


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion:114 Resp: 360501

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	47.8
88	16.8	0.0	32.8

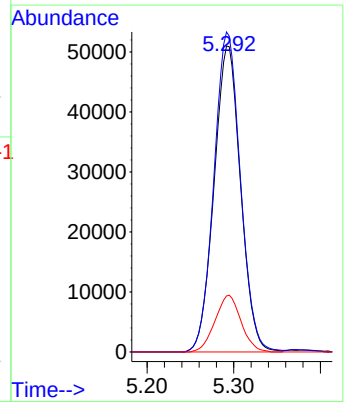




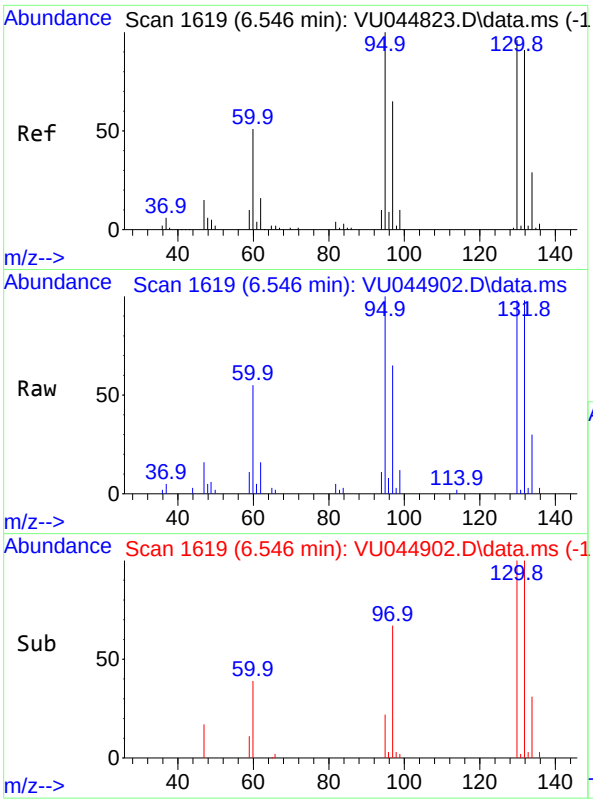
#35
Dibromofluoromethane
Concen: 43.824 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion:113 Resp: 108381

Ion	Ratio	Lower	Upper
113	100		
111	104.5	84.1	126.1
192	18.2	14.8	22.2



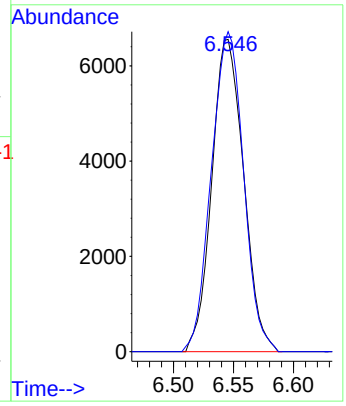
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11DL

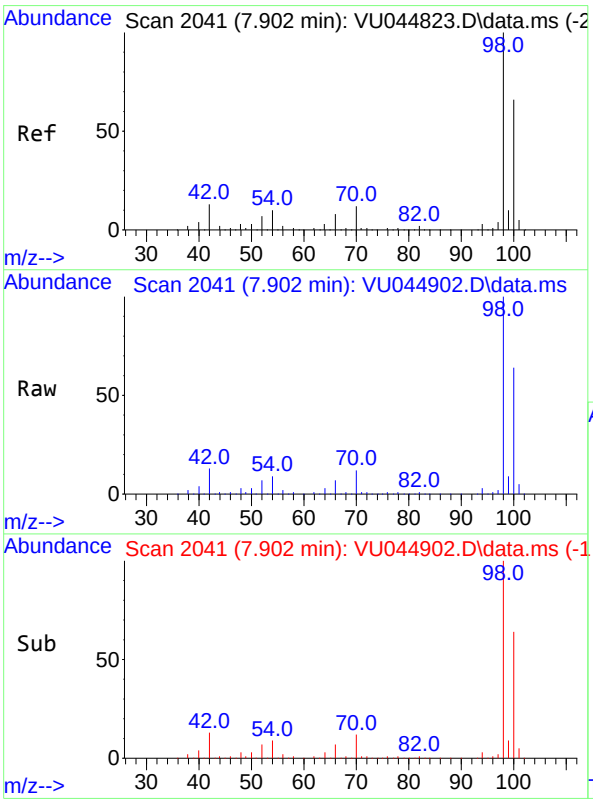


#44
Trichloroethene
Concen: 4.319 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion:130 Resp: 12104

Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	209.0

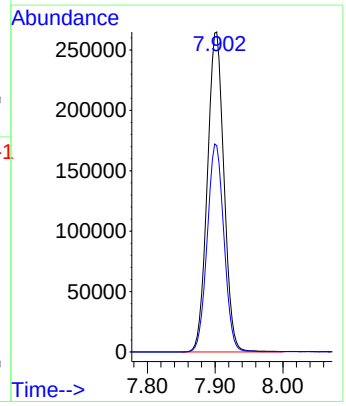




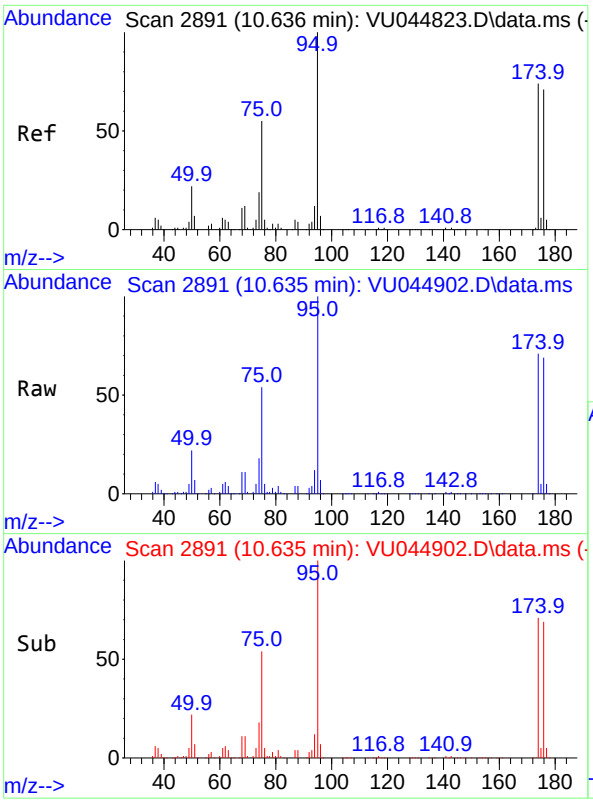
#50
Toluene-d8
Concen: 48.281 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion: 98 Resp: 450959

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7



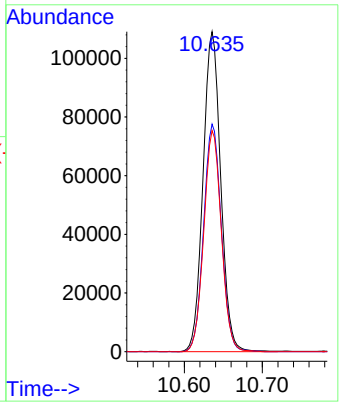
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11DL

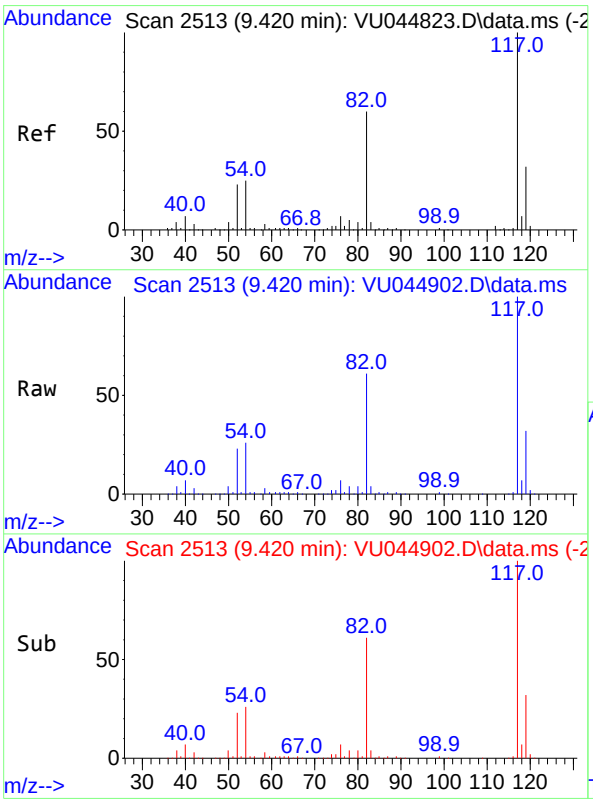


#62
4-Bromofluorobenzene
Concen: 49.707 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion: 95 Resp: 172442

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	146.6
176	68.5	0.0	141.2

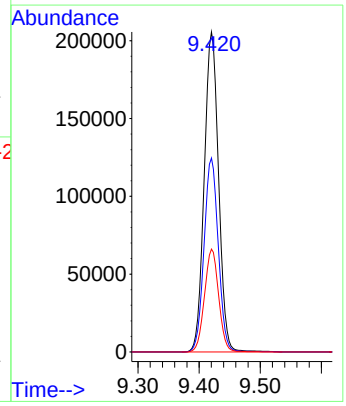




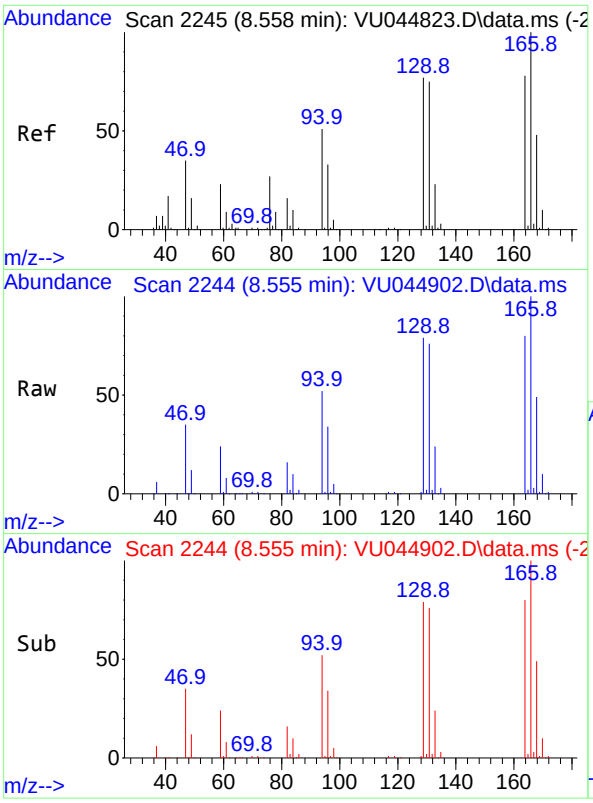
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion:117 Resp: 335220

Ion	Ratio	Lower	Upper
117	100		
82	60.6	47.8	71.8
119	32.1	25.8	38.6



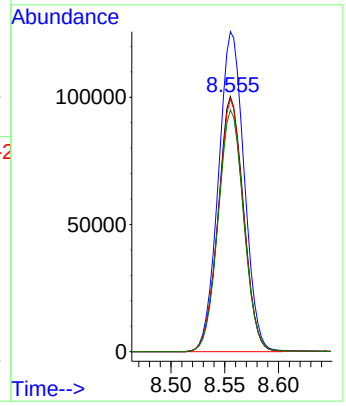
Instrument :
MSVOA_U
ClientSampleId :
1030-MW-11DL

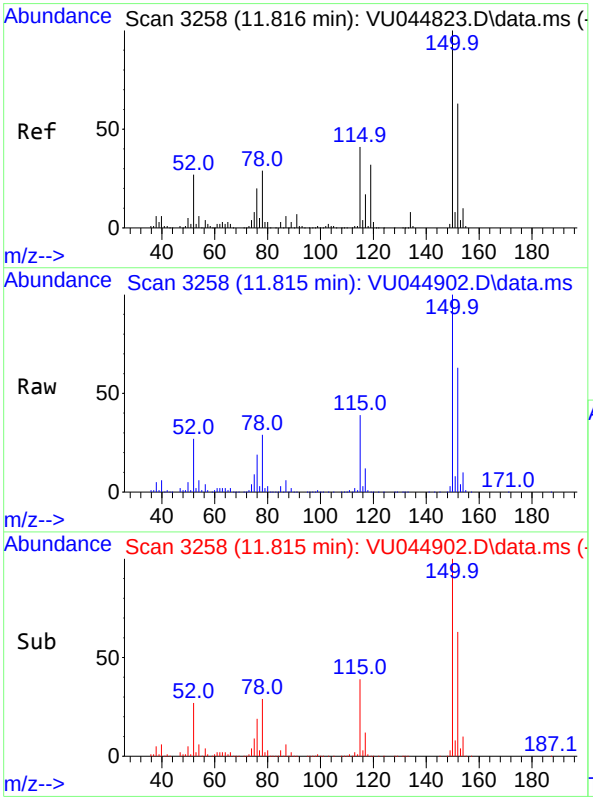


#64
Tetrachloroethene
Concen: 72.544 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion:164 Resp: 164833

Ion	Ratio	Lower	Upper
164	100		
166	125.4	102.8	154.2
129	99.1	79.4	119.2
131	94.8	77.4	116.2

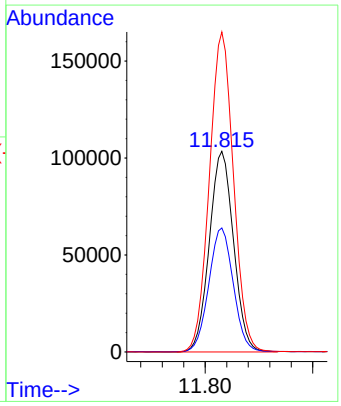




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044902.D
Acq: 27 Sep 2021 20:26

Tgt Ion:152 Resp: 161789

Ion	Ratio	Lower	Upper
152	100		
115	62.4	43.5	130.7
150	158.7	0.0	350.0



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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1031-MW-17A	SDG No.:	M3859
Lab Sample ID:	M3859-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044865.D	1		09/26/21 03:07	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	6.80		0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	9.60		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.20		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	86.6		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	9.10		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1031-MW-17A	SDG No.:	M3859
Lab Sample ID:	M3859-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044865.D	1		09/26/21 03:07	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	3.60		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		78 - 117	96%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	48.9		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		83 - 123	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	5.378			
540-36-3	1,4-Difluorobenzene	320000	6.253			
3114-55-4	Chlorobenzene-d5	297000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	134000	11.815			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1031-MW-17A	SDG No.:	M3859
Lab Sample ID:	M3859-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044865.D	1		09/26/21 03:07	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044865.D
Acq On : 26 Sep 2021 03:07
Operator : SY/MD
Sample : M3859-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1031-MW-17A

Quant Time: Sep 27 03:14:47 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

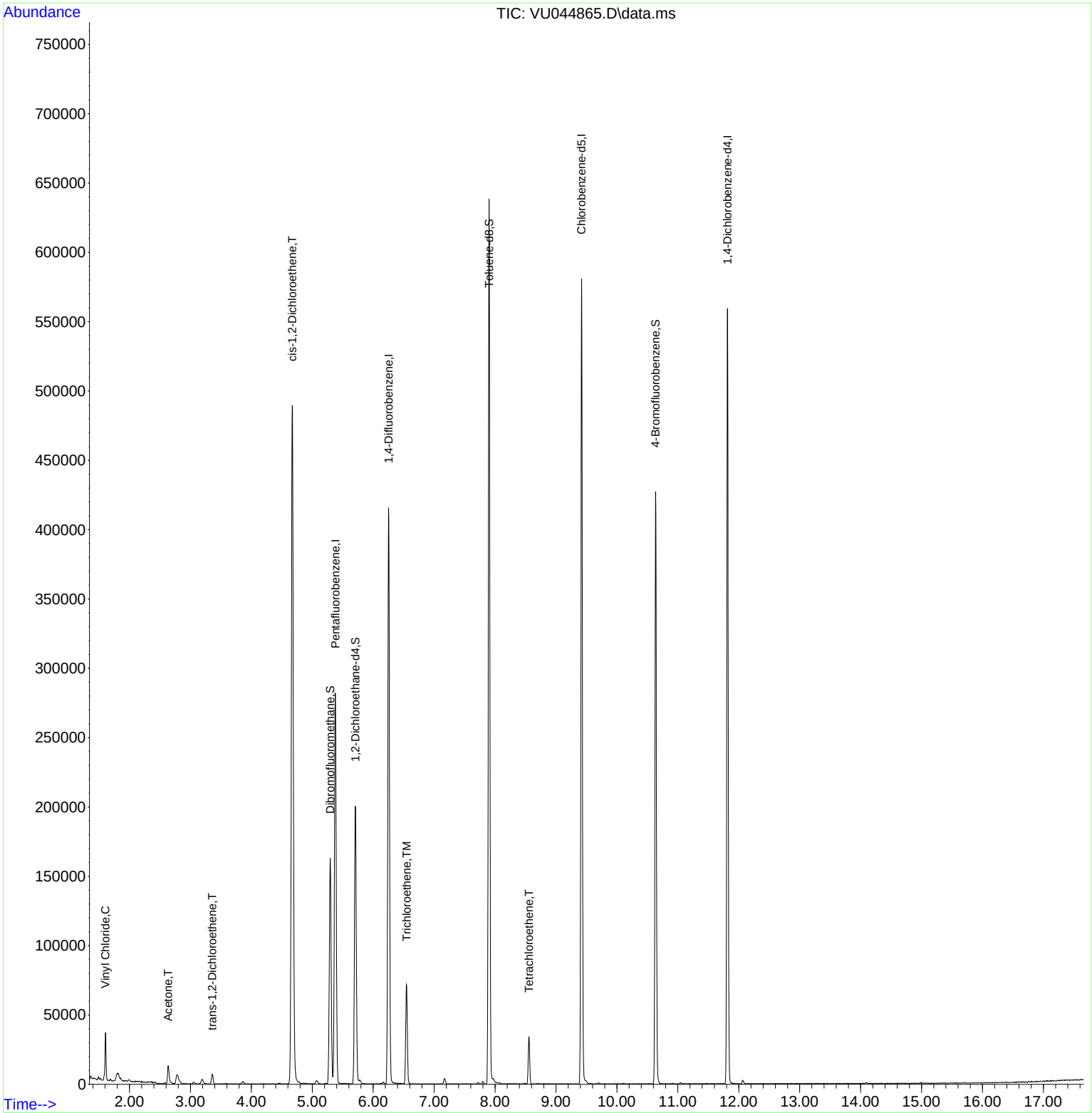
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	181870	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	320413	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	296647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	133611	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	151850	47.840	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.680%		
35) Dibromofluoromethane	5.295	113	103485	47.080	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.160%		
50) Toluene-d8	7.902	98	405737	48.874	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.740%		
62) 4-Bromofluorobenzene	10.635	95	139511	45.245	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.500%		
Target Compounds						Qvalue
4) Vinyl Chloride	1.607	62	20887	6.770	ug/l	98
16) Acetone	2.636	43	17211	9.613	ug/l	95
21) trans-1,2-Dichloroethene	3.359	96	2721	1.161	ug/l	95
27) cis-1,2-Dichloroethene	4.671	96	246862	86.572	ug/l	89
44) Trichloroethene	6.549	130	22626	9.083	ug/l	100
64) Tetrachloroethene	8.558	164	7288	3.625	ug/l	92

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

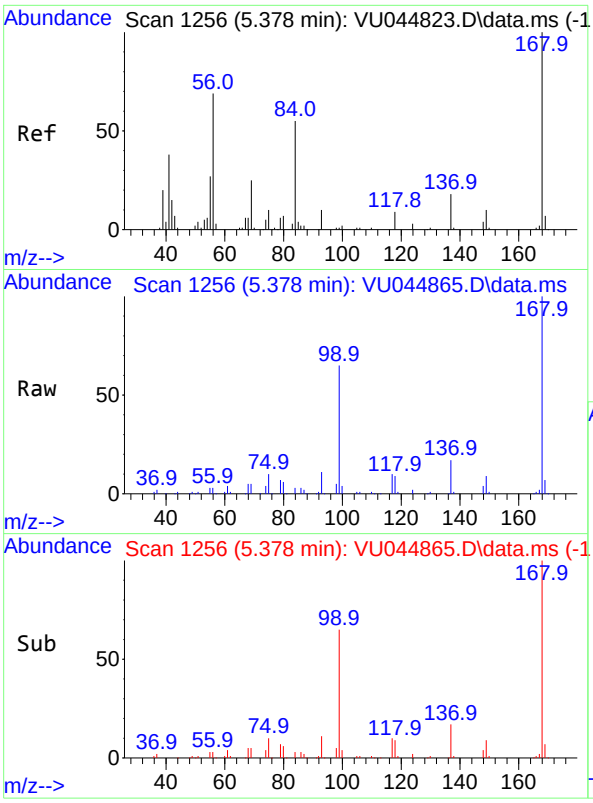
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044865.D
Acq On : 26 Sep 2021 03:07
Operator : SY/MD
Sample : M3859-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

Quant Time: Sep 27 03:14:47 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



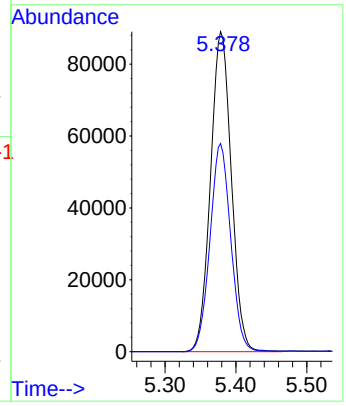
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

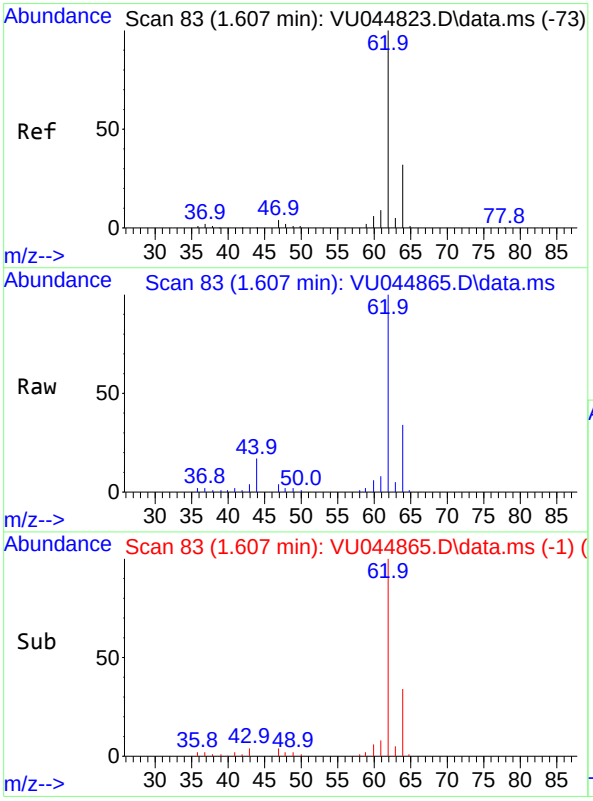


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion:168 Resp: 181870

Ion	Ratio	Lower	Upper
168	100		
99	65.1	51.4	77.0

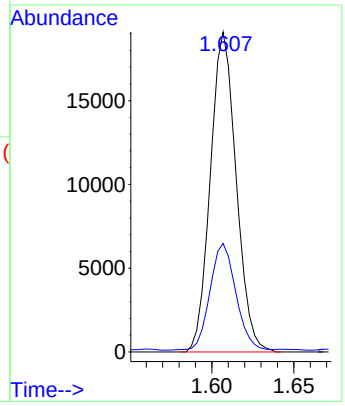




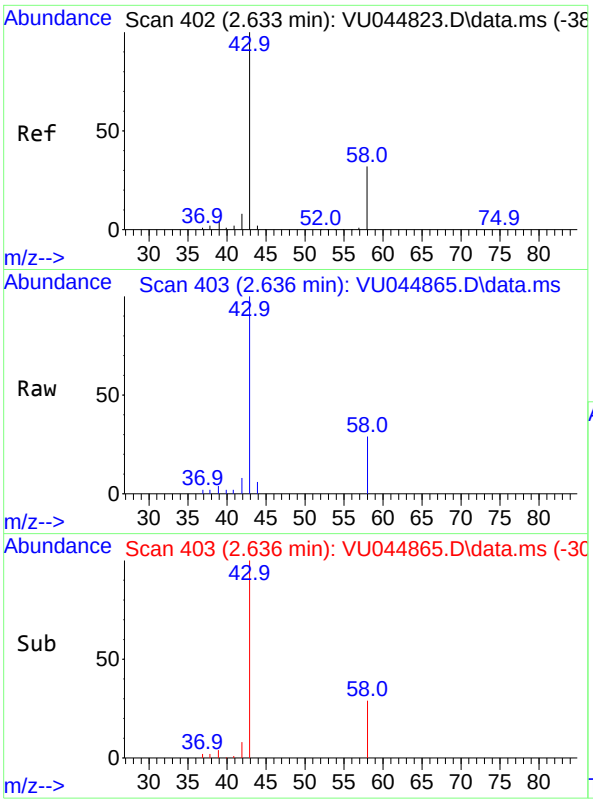
#4
Vinyl Chloride
Concen: 6.770 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion: 62 Resp: 20887

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.6	38.4



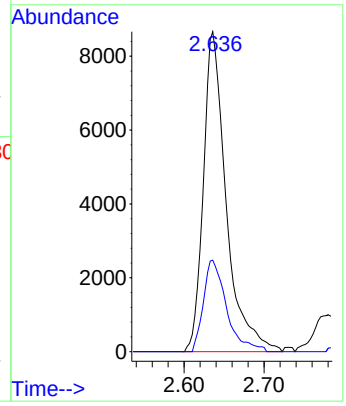
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

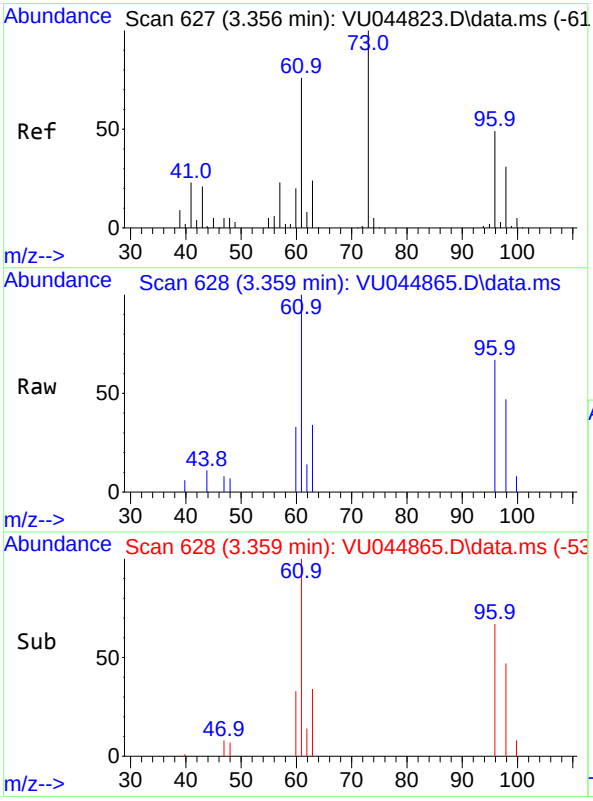


#16
Acetone
Concen: 9.613 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion: 43 Resp: 17211

Ion	Ratio	Lower	Upper
43	100		
58	28.6	25.2	37.8

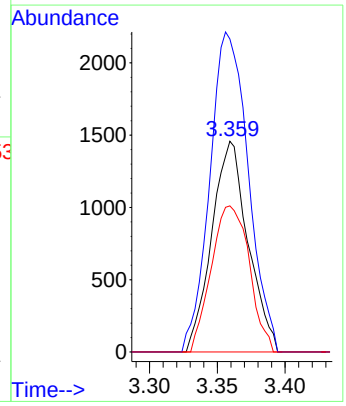




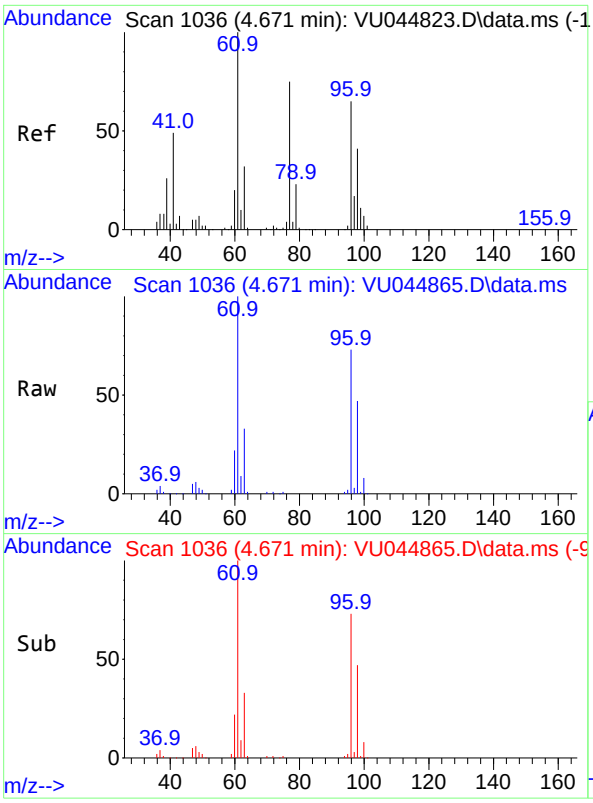
#21
trans-1,2-Dichloroethene
Concen: 1.161 ug/l
RT: 3.359 min Scan# 628
Delta R.T. 0.003 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion: 96 Resp: 2721

Ion	Ratio	Lower	Upper
96	100		
61	148.5	123.2	184.8
98	69.3	51.0	76.6



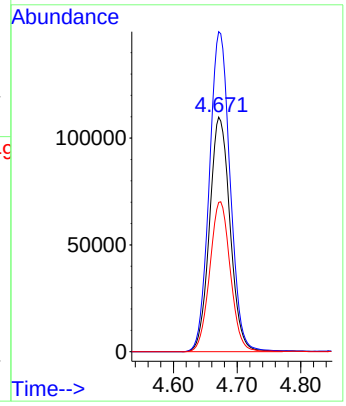
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

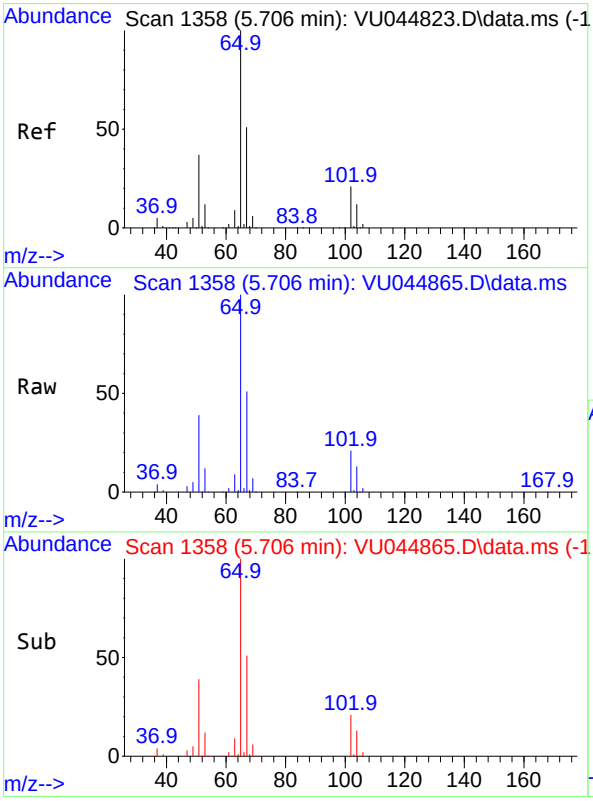


#27
cis-1,2-Dichloroethene
Concen: 86.572 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion: 96 Resp: 246862

Ion	Ratio	Lower	Upper
96	100		
61	137.4	0.0	313.4
98	63.8	0.0	127.0

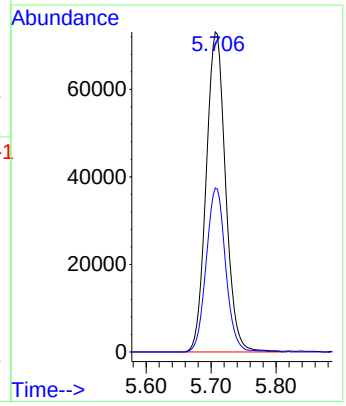




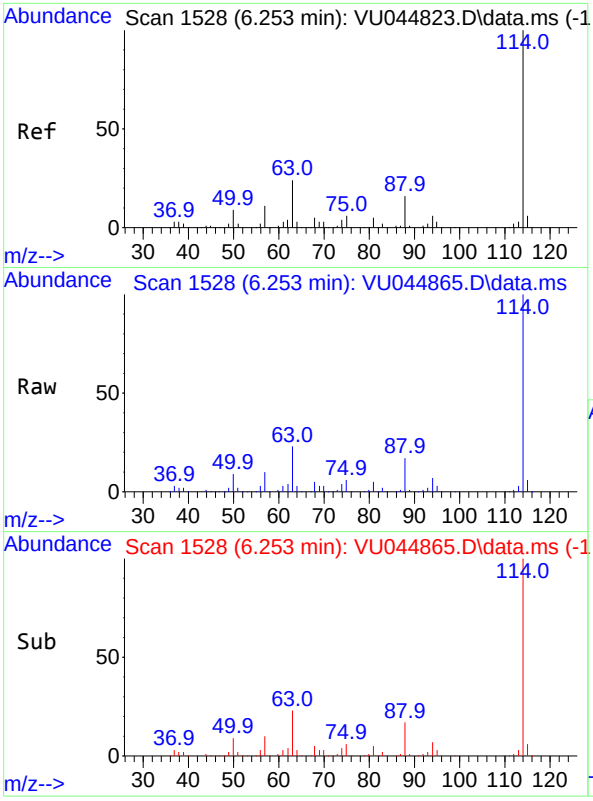
#33
1,2-Dichloroethane-d4
Concen: 47.840 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion: 65 Resp: 151850

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	104.8



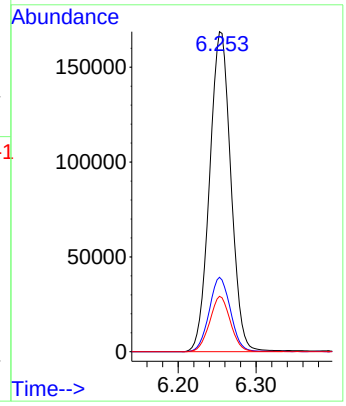
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

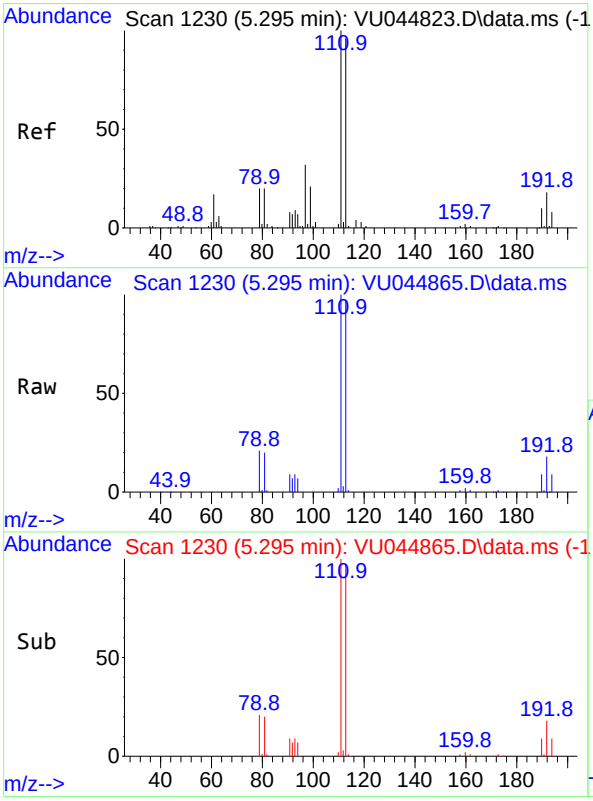


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion:114 Resp: 320413

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	47.8
88	17.3	0.0	32.8

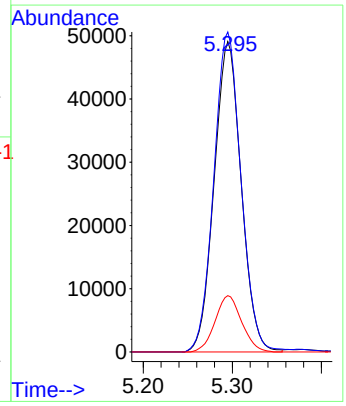




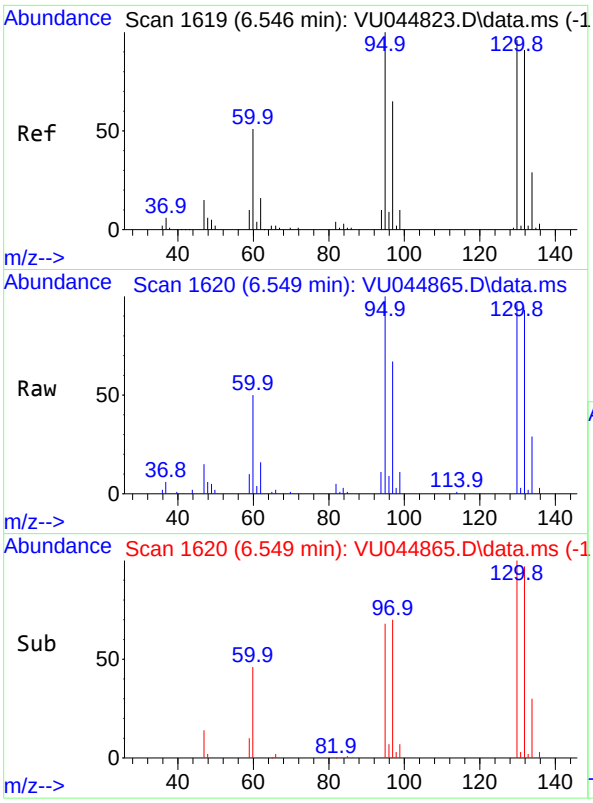
#35
Dibromofluoromethane
Concen: 47.080 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion:113 Resp: 103485

Ion	Ratio	Lower	Upper
113	100		
111	103.7	84.1	126.1
192	17.9	14.8	22.2



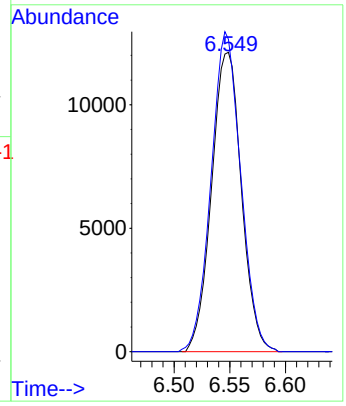
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

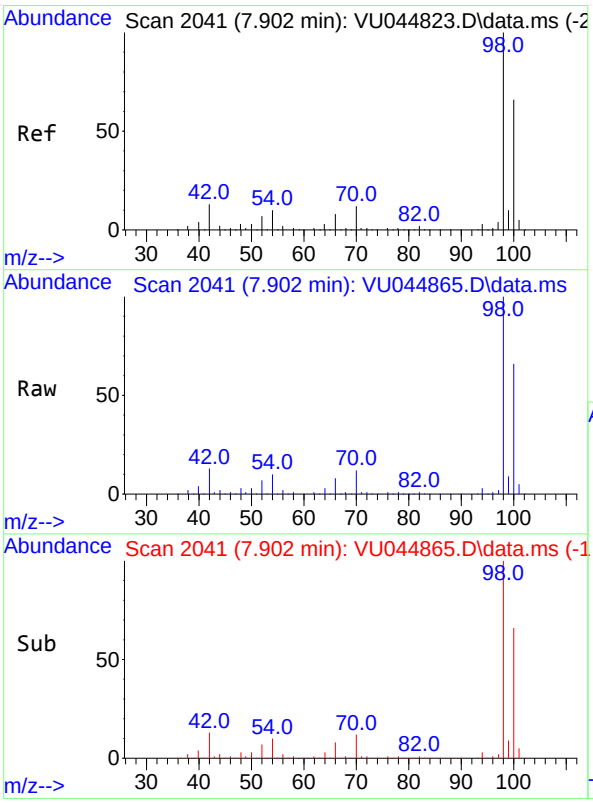


#44
Trichloroethene
Concen: 9.083 ug/l
RT: 6.549 min Scan# 1620
Delta R.T. 0.003 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion:130 Resp: 22626

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	209.0

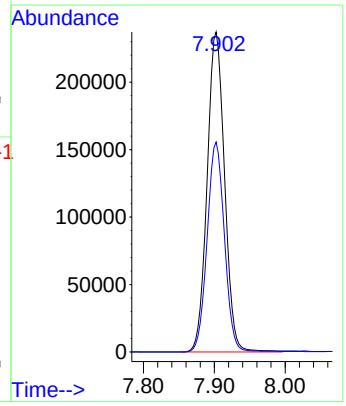




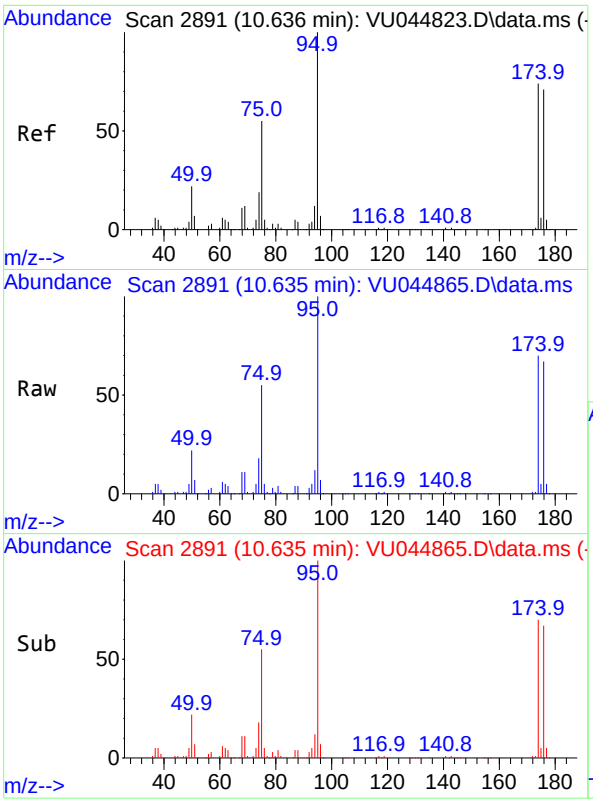
#50
Toluene-d8
Concen: 48.874 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion: 98 Resp: 405737

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.5	78.7



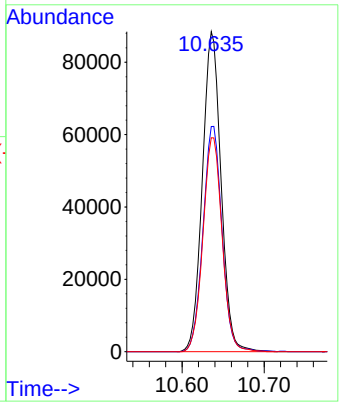
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

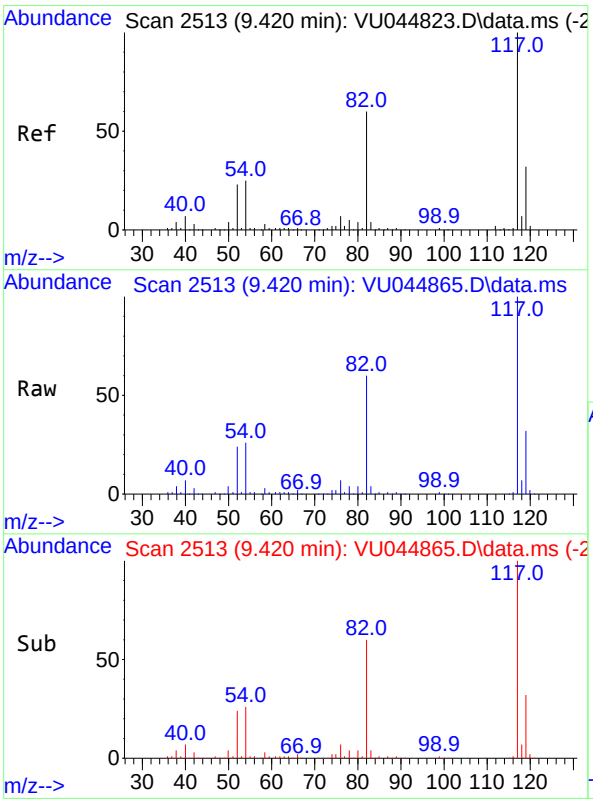


#62
4-Bromofluorobenzene
Concen: 45.245 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion: 95 Resp: 139511

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	146.6
176	68.7	0.0	141.2

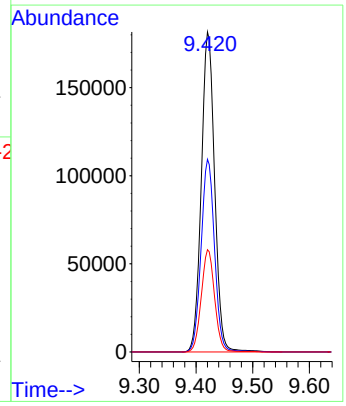




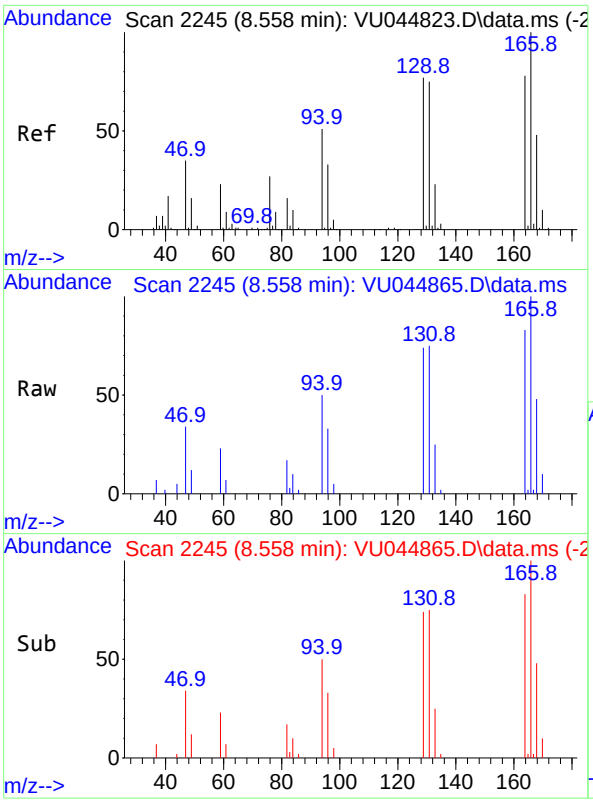
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion:117 Resp: 296647

Ion	Ratio	Lower	Upper
117	100		
82	60.2	47.8	71.8
119	32.0	25.8	38.6



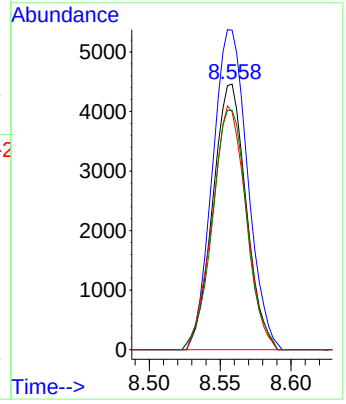
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

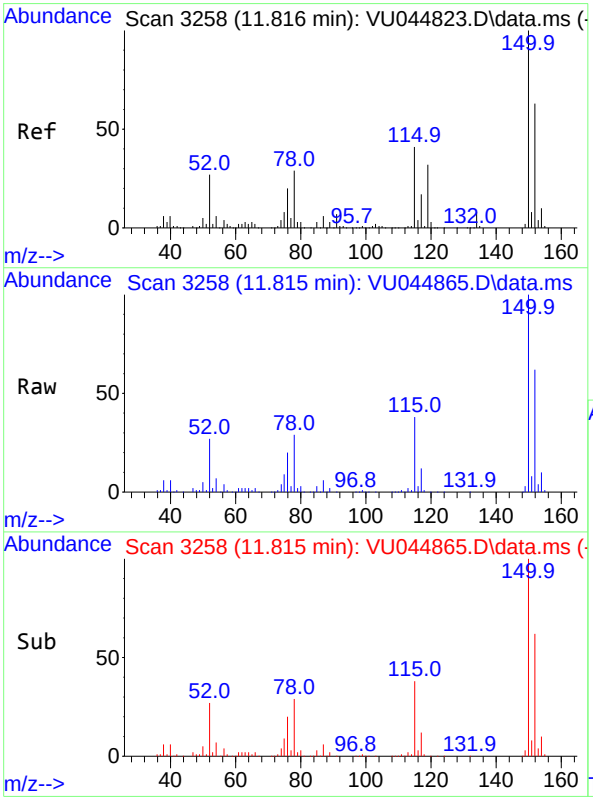


#64
Tetrachloroethene
Concen: 3.625 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion:164 Resp: 7288

Ion	Ratio	Lower	Upper
164	100		
166	120.3	102.8	154.2
129	89.6	79.4	119.2
131	90.1	77.4	116.2

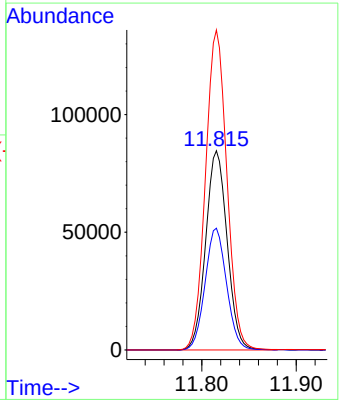




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044865.D
Acq: 26 Sep 2021 03:07

Tgt Ion:152 Resp: 133611

Ion	Ratio	Lower	Upper
152	100		
115	61.2	43.5	130.7
150	159.7	0.0	350.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044865.D
Acq On : 26 Sep 2021 03:07
Operator : SY/MD
Sample : M3859-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1031-MW-17A

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044865.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.607	71	83	95	rVB	34564	43062	3.87%	0.606%
2	2.636	394	403	430	rVB	12989	25501	2.29%	0.359%
3	2.780	435	448	476	rBV2	6476	20371	1.83%	0.287%
4	3.359	617	628	640	rBV2	6982	13273	1.19%	0.187%
5	4.671	1013	1036	1067	rBV	489204	1111744	100.00%	15.649%
6	5.295	1215	1230	1243	rBV	162909	341896	30.75%	4.812%
7	5.378	1243	1256	1282	rVB	281722	574503	51.68%	8.087%
8	5.706	1343	1358	1375	rBV	200302	409670	36.85%	5.766%
9	6.253	1513	1528	1548	rBV	415484	784277	70.54%	11.039%
10	6.546	1606	1619	1635	rVB	71532	132674	11.93%	1.867%
11	7.902	2024	2041	2059	rBV	638086	1088504	97.91%	15.322%
12	8.555	2234	2244	2256	rVB2	33836	55830	5.02%	0.786%
13	9.420	2500	2513	2533	rBV	580732	943413	84.86%	13.279%
14	10.635	2878	2891	2913	rBV	427198	676993	60.89%	9.529%
15	11.815	3245	3258	3277	rBV	559264	882673	79.40%	12.424%

Sum of corrected areas: 7104384

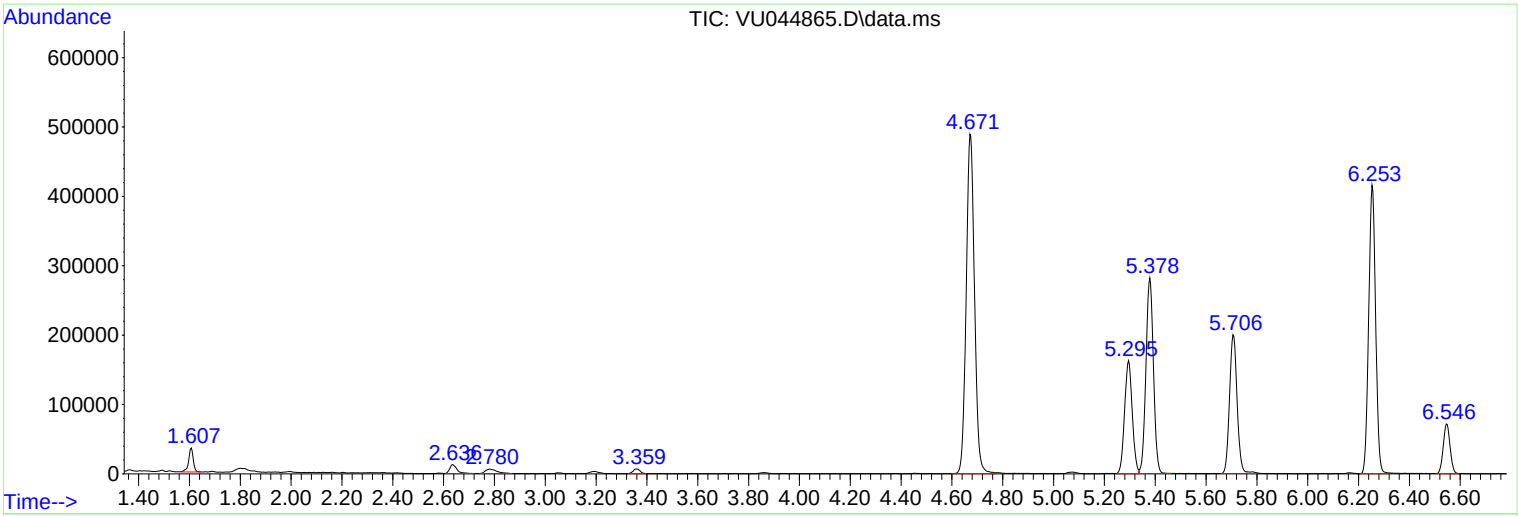
Sample Results: **VU044865.D**

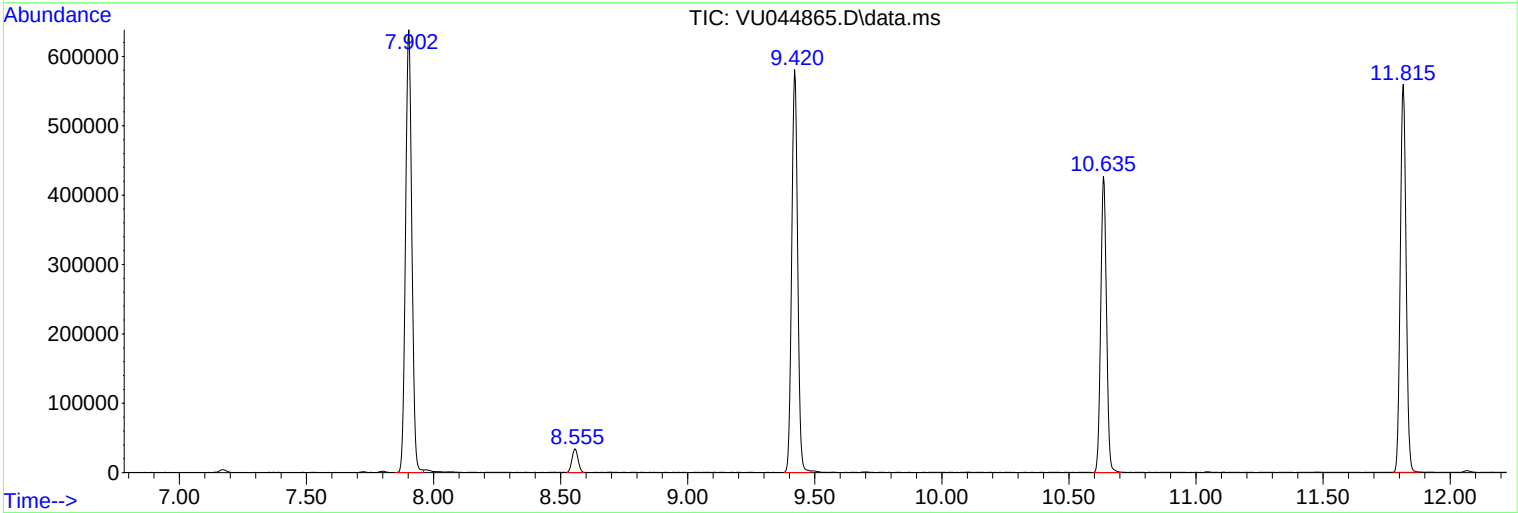
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044865.D
Acq On : 26 Sep 2021 03:07
Operator : SY/MD
Sample : M3859-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

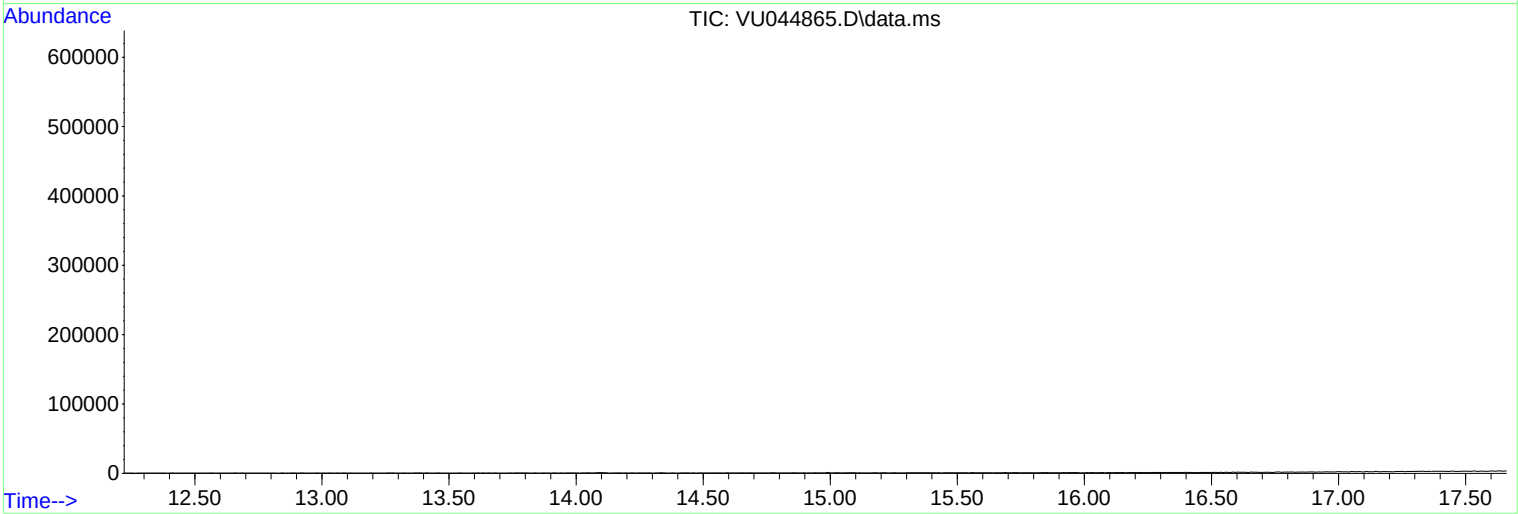
Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044865.D
Acq On : 26 Sep 2021 03:07
Operator : SY/MD
Sample : M3859-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044865.D
Acq On : 26 Sep 2021 03:07
Operator : SY/MD
Sample : M3859-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1031-MW-17A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1032-FB092021	SDG No.:	M3859
Lab Sample ID:	M3859-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044911.D	1		09/28/21 01:07	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	UQ	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	15.8		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	2.10	J	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	0.31	J	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1032-FB092021	SDG No.:	M3859
Lab Sample ID:	M3859-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044911.D	1		09/28/21 01:07	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.36	J	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	44.8		75 - 124	90%	SPK: 50
2037-26-5	Toluene-d8	48.1		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	5.379			
540-36-3	1,4-Difluorobenzene	345000	6.253			
3114-55-4	Chlorobenzene-d5	309000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	143000	11.816			
TENTATIVE IDENTIFIED COMPOUNDS						
000104-76-7	1-Hexanol, 2-ethyl-	5.70	J		12.1	ug/L
91-20-3	Naphthalene	1.20	J		14.1	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1032-FB092021	SDG No.:	M3859
Lab Sample ID:	M3859-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044911.D	1		09/28/21 01:07	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044911.D
Acq On : 28 Sep 2021 01:07
Operator : SY/MD
Sample : M3859-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1032-FB092021

Quant Time: Sep 28 06:30:45 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	197567	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	345295	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	308978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	142789	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	152739	44.297	ug/l	0.00
Spiked Amount 50.000			Recovery =	88.600%		
35) Dibromofluoromethane	5.292	113	106023	44.758	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.520%		
50) Toluene-d8	7.903	98	429911	48.054	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.100%		
62) 4-Bromofluorobenzene	10.636	95	153276	46.128	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.260%		
Target Compounds						Qvalue
16) Acetone	2.633	43	30733	15.801	ug/l	100
25) 2-Butanone	4.716	43	6320	2.142	ug/l	99
52) Toluene	7.973	92	2040	0.305	ug/l	91
64) Tetrachloroethene	8.552	164	749	0.358	ug/l #	83
95) Naphthalene	14.095	128	2309	1.150	ug/l #	91

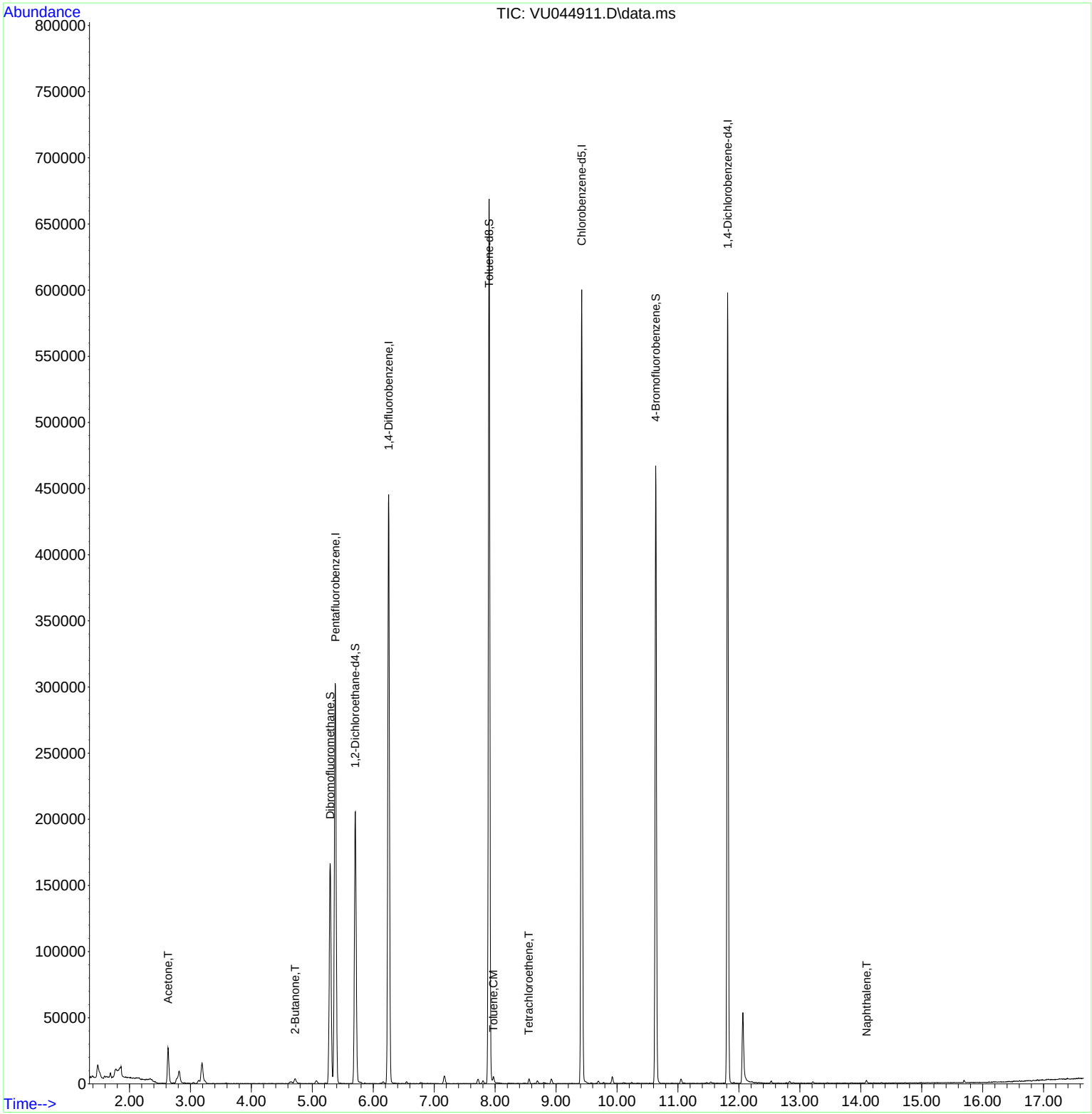
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VU044911.D**

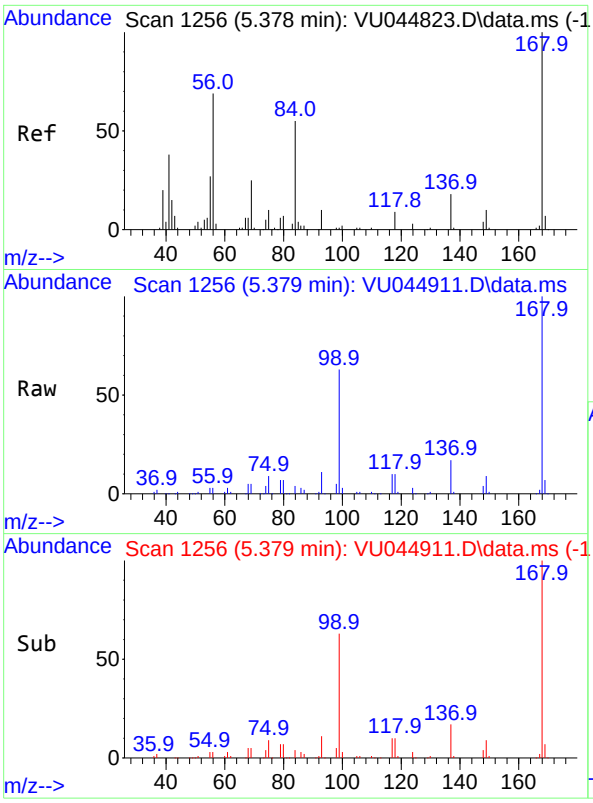
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044911.D
Acq On : 28 Sep 2021 01:07
Operator : SY/MD
Sample : M3859-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

Quant Time: Sep 28 06:30:45 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



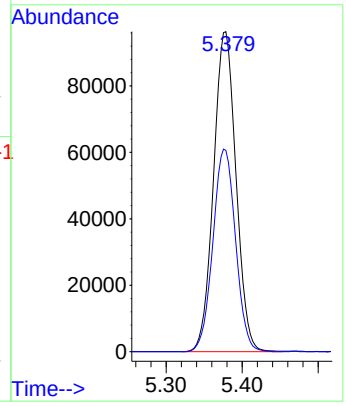
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

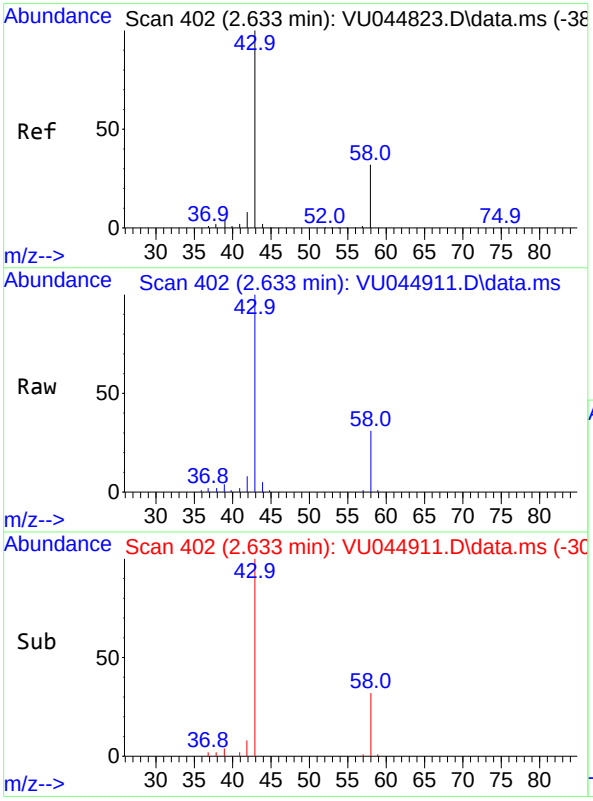


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion:168 Resp: 197567

Ion	Ratio	Lower	Upper
168	100		
99	62.9	51.4	77.0

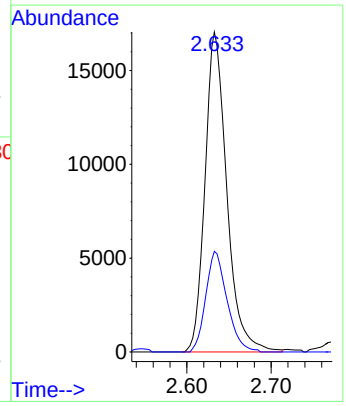




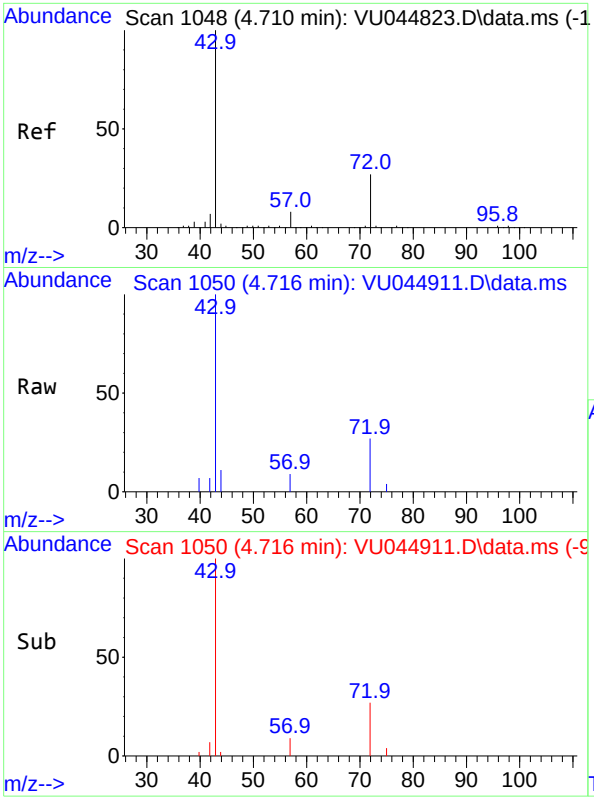
#16
Acetone
Concen: 15.801 ug/l
RT: 2.633 min Scan# 402
Delta R.T. 0.000 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion: 43 Resp: 30733

Ion	Ratio	Lower	Upper
43	100		
58	31.4	25.2	37.8



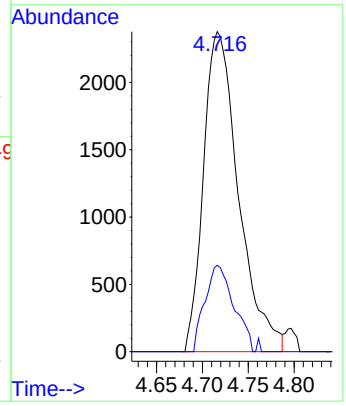
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

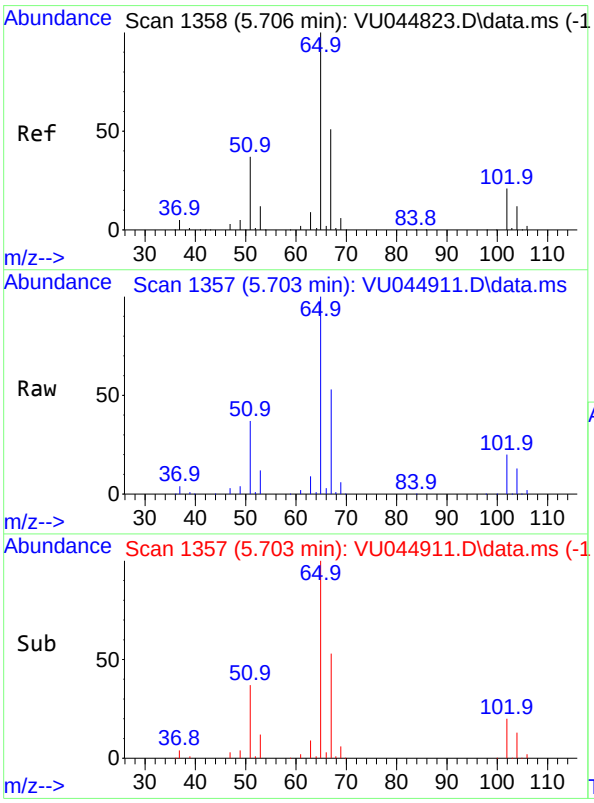


#25
2-Butanone
Concen: 2.142 ug/l
RT: 4.716 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion: 43 Resp: 6320

Ion	Ratio	Lower	Upper
43	100		
72	27.0	21.3	31.9

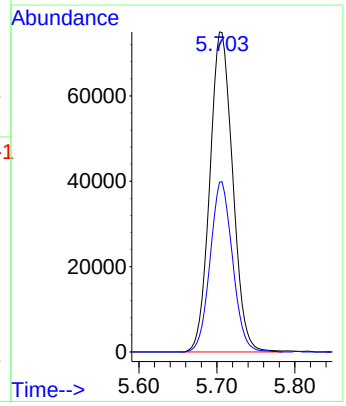




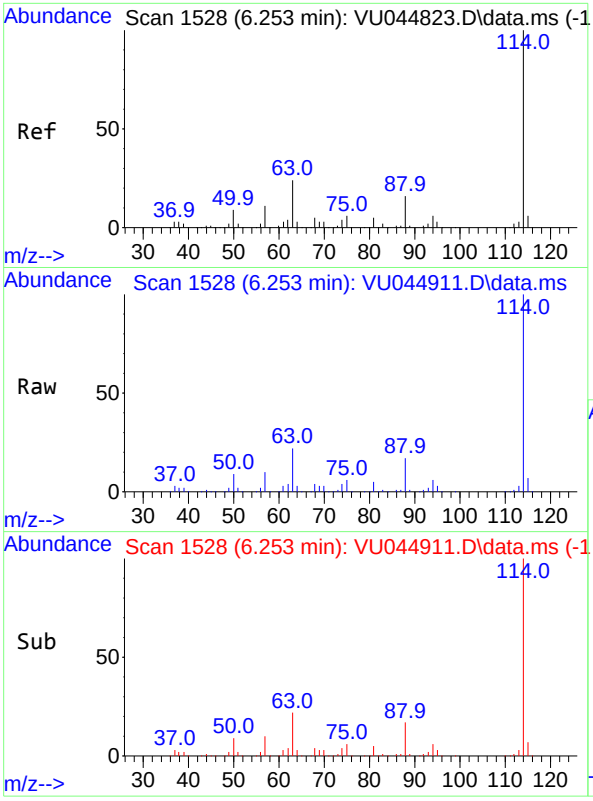
#33
1,2-Dichloroethane-d4
Concen: 44.297 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion: 65 Resp: 152739

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.8



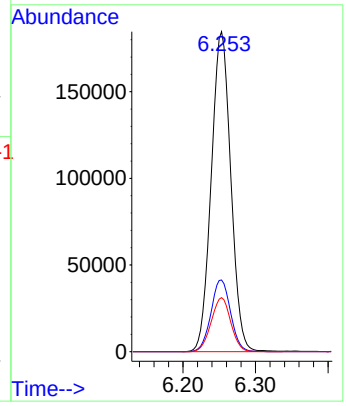
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

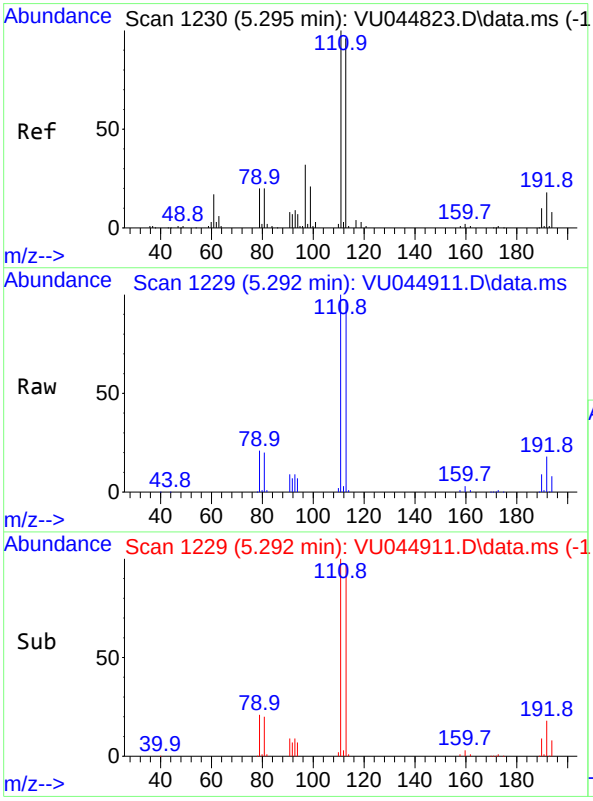


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion:114 Resp: 345295

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	47.8
88	16.9	0.0	32.8

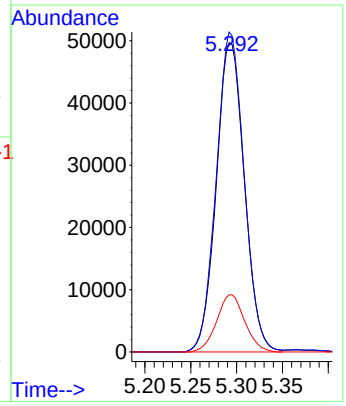




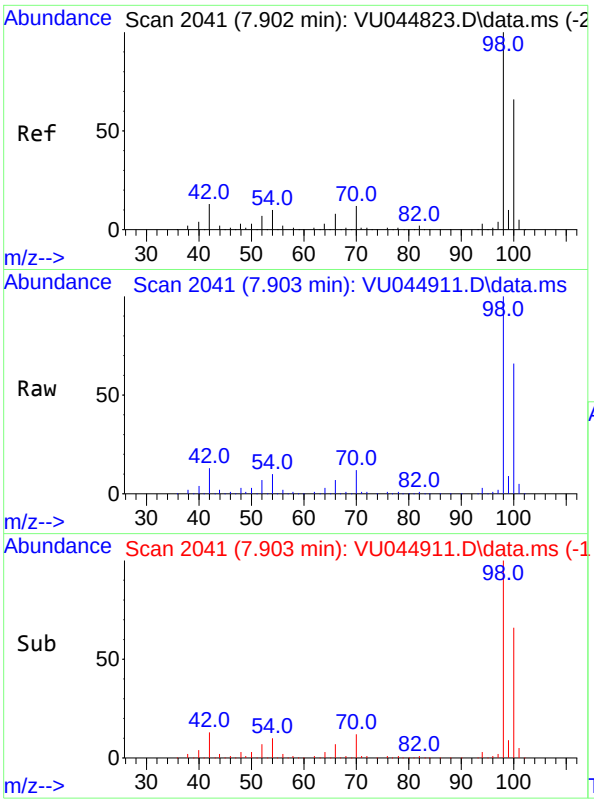
#35
Dibromofluoromethane
Concen: 44.758 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion:113 Resp: 106023

Ion	Ratio	Lower	Upper
113	100		
111	102.7	84.1	126.1
192	18.5	14.8	22.2



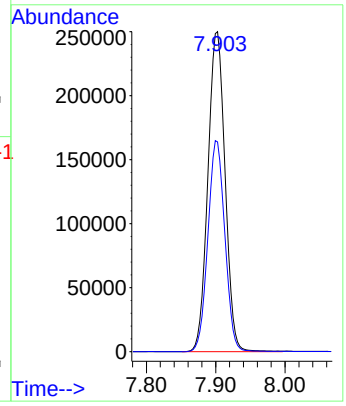
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

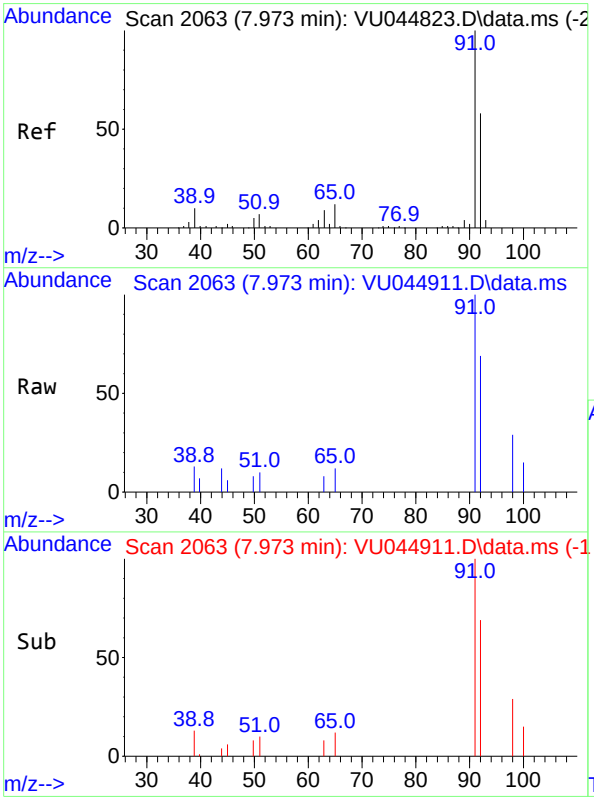


#50
Toluene-d8
Concen: 48.054 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion: 98 Resp: 429911

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.5	78.7

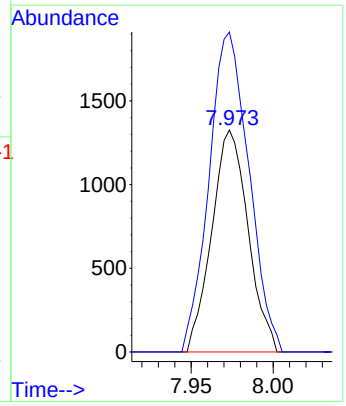




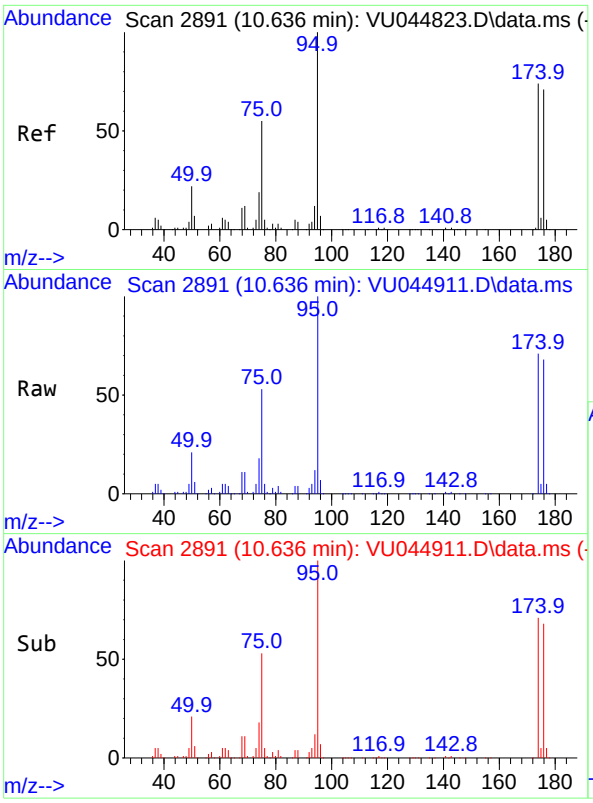
#52
Toluene
Concen: 0.305 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion: 92 Resp: 2040

Ion	Ratio	Lower	Upper
92	100		
91	158.2	136.9	205.3



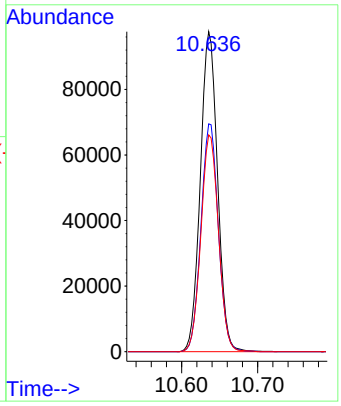
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

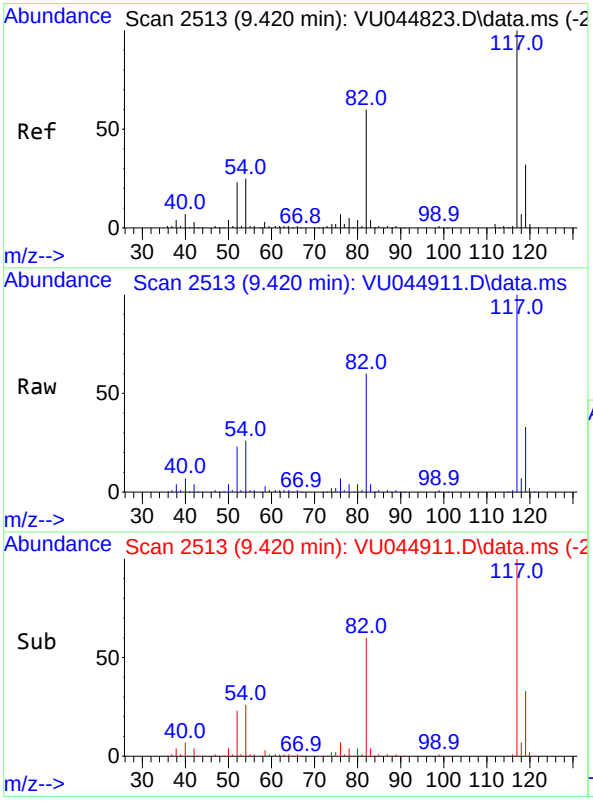


#62
4-Bromofluorobenzene
Concen: 46.128 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion: 95 Resp: 153276

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	146.6
176	69.1	0.0	141.2

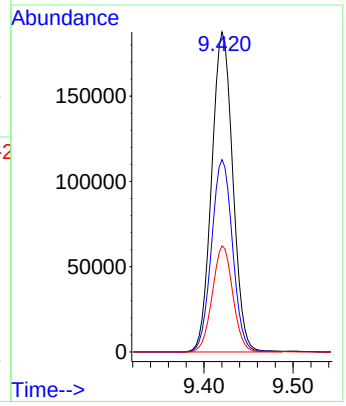




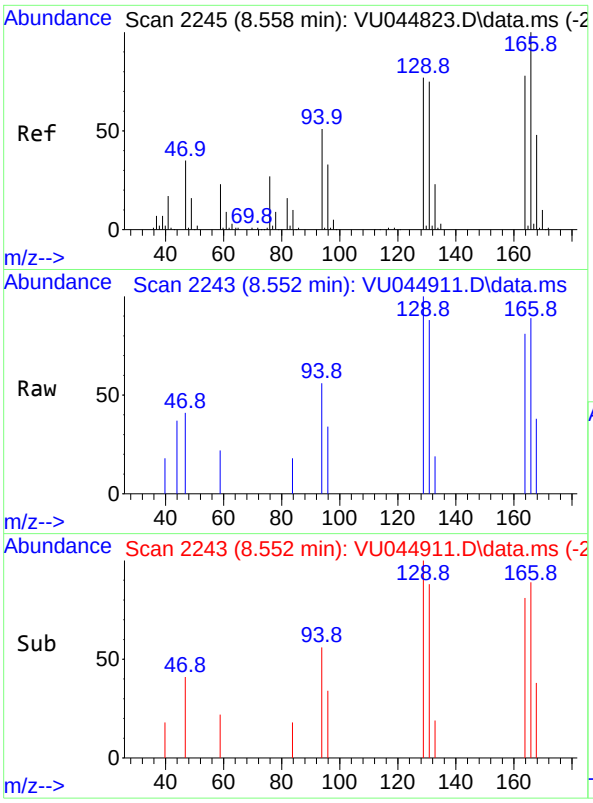
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion:117 Resp: 308978

Ion	Ratio	Lower	Upper
117	100		
82	60.1	47.8	71.8
119	33.2	25.8	38.6



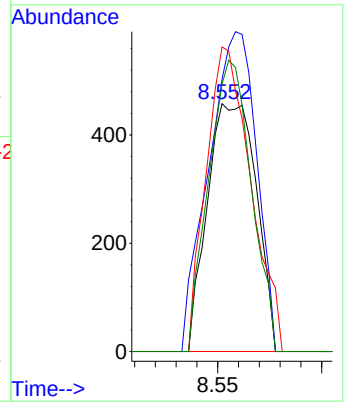
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

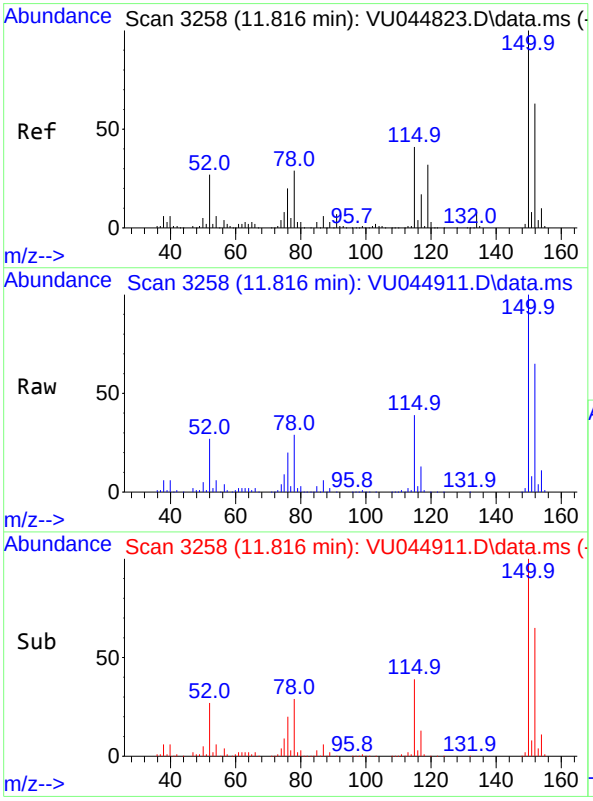


#64
Tetrachloroethene
Concen: 0.358 ug/l
RT: 8.552 min Scan# 2243
Delta R.T. -0.006 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion:164 Resp: 749

Ion	Ratio	Lower	Upper
164	100		
166	109.8	102.8	154.2
129	122.9	79.4	119.2#
131	107.9	77.4	116.2

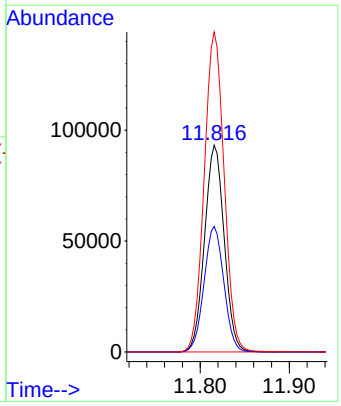




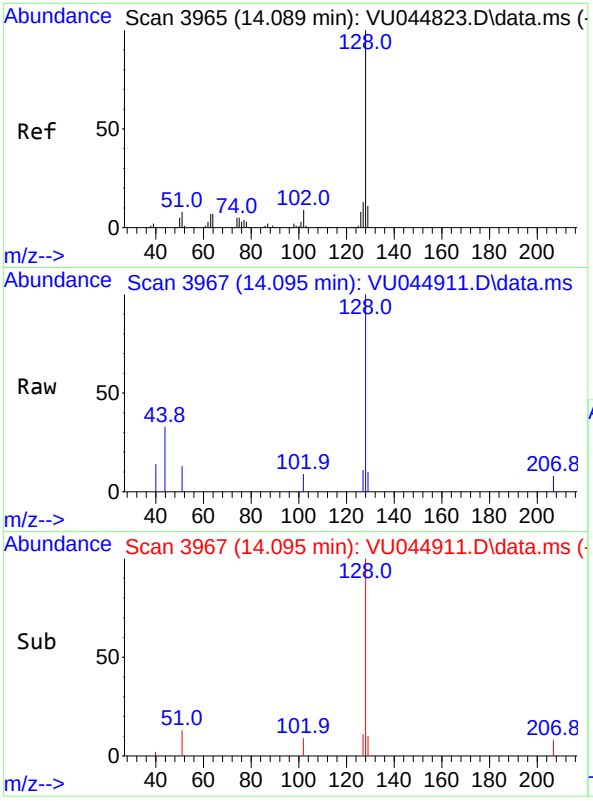
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion:152 Resp: 142789

Ion	Ratio	Lower	Upper
152	100		
115	61.2	43.5	130.7
150	156.8	0.0	350.0



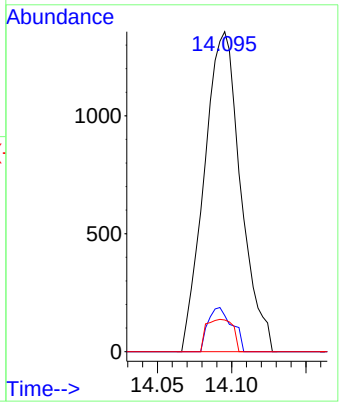
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021



#95
Naphthalene
Concen: 1.150 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.006 min
Lab File: VU044911.D
Acq: 28 Sep 2021 01:07

Tgt Ion:128 Resp: 2309

Ion	Ratio	Lower	Upper
128	100		
127	9.1	10.4	15.6#
129	7.3	8.6	13.0#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044911.D
Acq On : 28 Sep 2021 01:07
Operator : SY/MD
Sample : M3859-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1032-FB092021

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044911.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.478	35	43	64	rVB2	9791	24824	2.17%	0.398%
2	2.633	390	402	422	rVB	26936	47629	4.16%	0.763%
3	2.813	436	458	481	rBV2	9274	28543	2.49%	0.457%
4	3.192	565	576	588	rBV	13620	28396	2.48%	0.455%
5	5.292	1214	1229	1242	rBV	166461	350616	30.60%	5.616%
6	5.375	1242	1255	1279	rVB	302355	618694	53.99%	9.909%
7	5.707	1343	1358	1379	rBV	205460	415043	36.22%	6.648%
8	6.253	1512	1528	1552	rBV	445220	832881	72.68%	13.340%
9	7.903	2025	2041	2056	rBV	668342	1145952	100.00%	18.354%
10	9.420	2499	2513	2536	rBV	599995	983604	85.83%	15.754%
11	10.636	2878	2891	2919	rVB	466893	735249	64.16%	11.776%
12	11.816	3245	3258	3283	rBV	597671	925995	80.81%	14.831%
13	12.066	3321	3336	3367	rBV	53424	106030	9.25%	1.698%

Sum of corrected areas: 6243456

Sample Results: **VU044911.D**

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Data File : VU044911.D
Acq On : 28 Sep 2021 01:07
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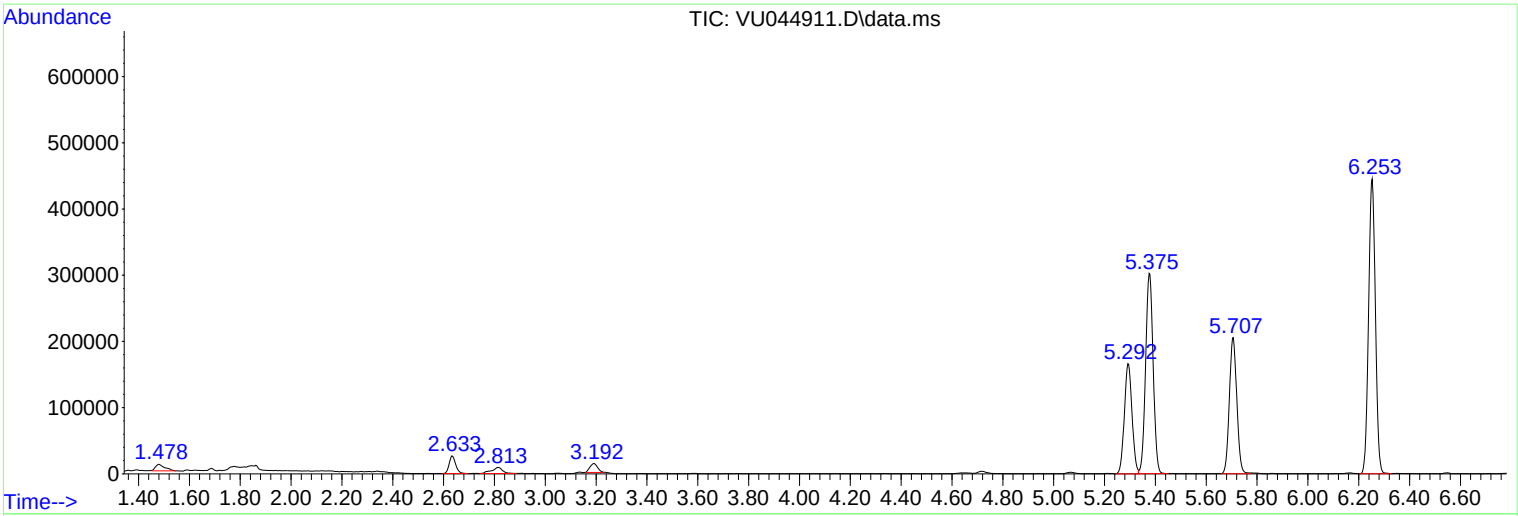
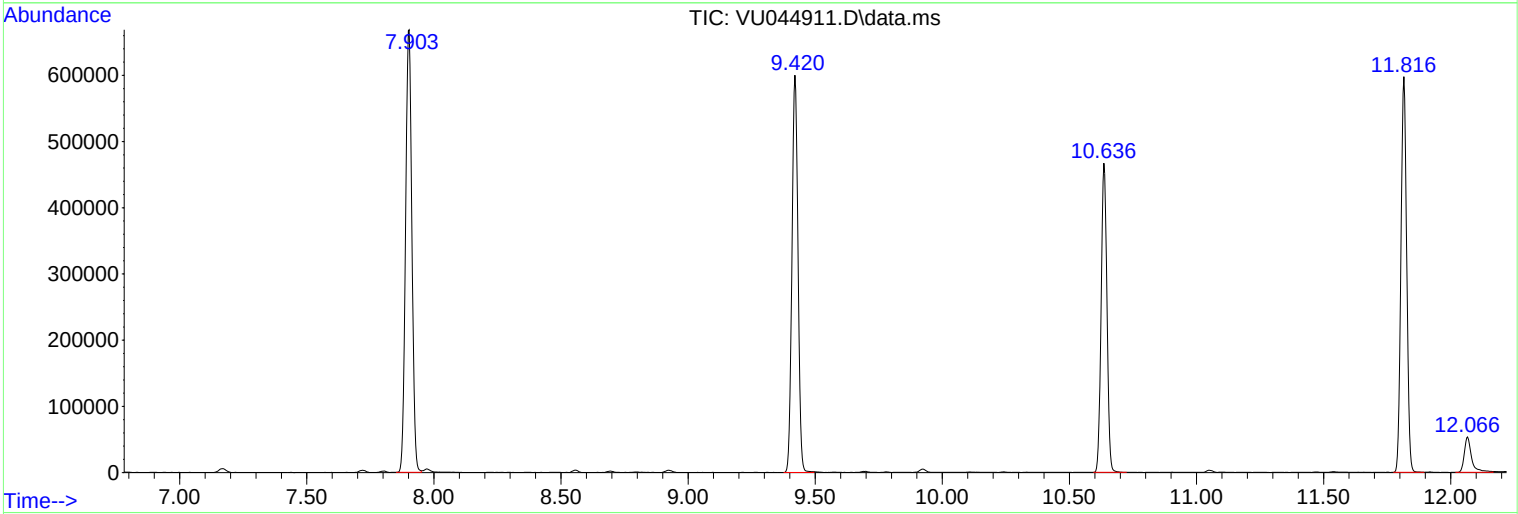
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

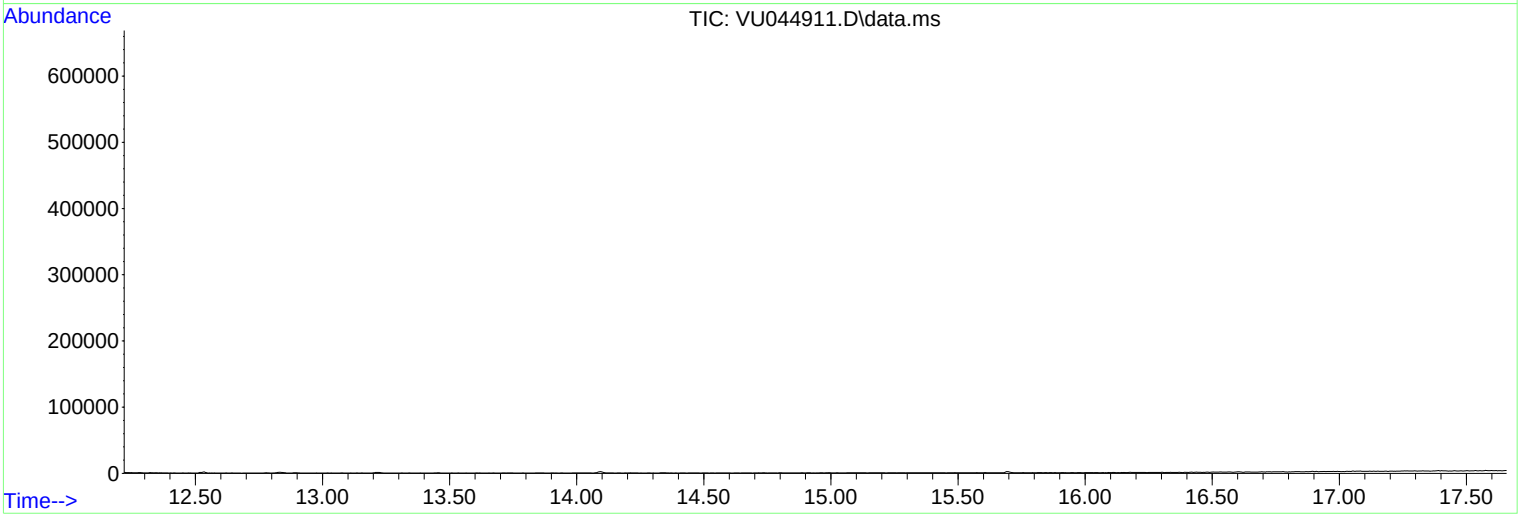
Instrument :
MSVOA_U
ClientSampleId :
1032-FB092021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044911.D
Acq On : 28 Sep 2021 01:07
Operator : SY/MD
Sample : M3859-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1032-FB092021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

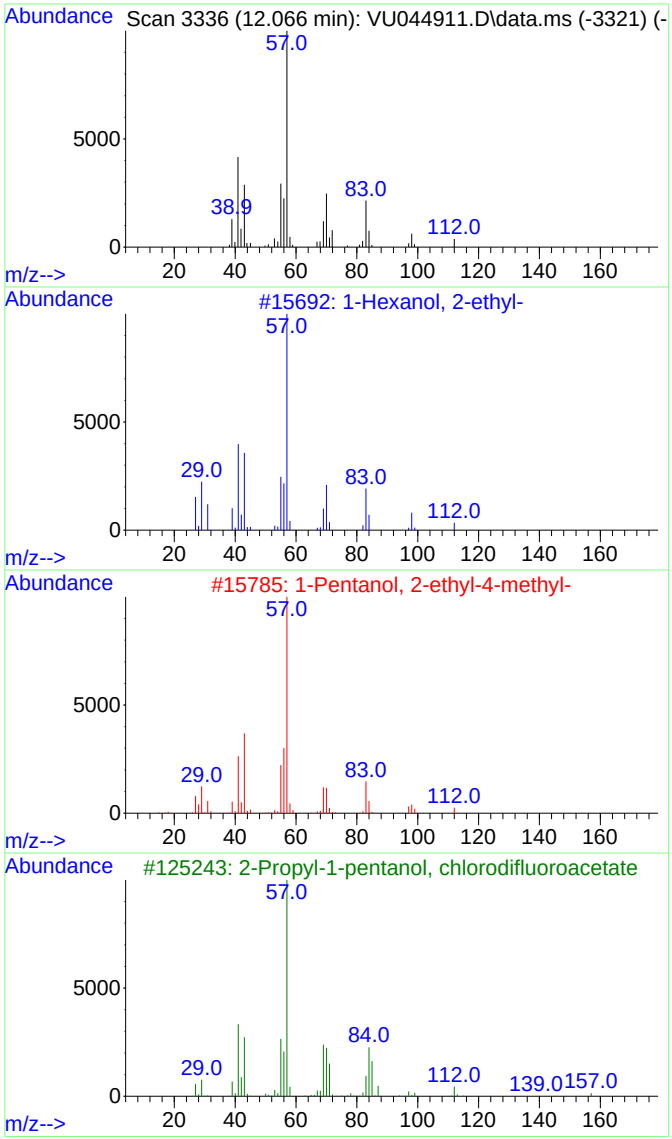
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

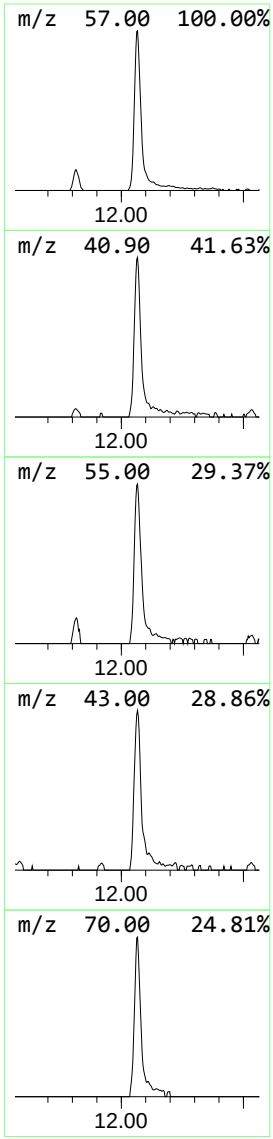
****

Peak Number 1 1-Hexanol, 2-ethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.066	5.73 ug/l	106030	1,4-Dichlorobenzene-d4	11.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	56
3	2-Propyl-1-pentanol, chlorodiflu...	242	C10H17ClF2O2	1000447-27-3	50
4	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	50
5	Octane, 2,3-dimethyl-	142	C10H22	007146-60-3	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044911.D
Acq On : 28 Sep 2021 01:07
Operator : SY/MD
Sample : M3859-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1032-FB092021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-Hexanol, 2-et...	12.066	5.7	ug/l	106030	4	11.816	925995	50.0

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1033-TB092021	SDG No.:	M3859
Lab Sample ID:	M3859-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044864.D	1		09/26/21 02:43	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	1.80	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1033-TB092021	SDG No.:	M3859
Lab Sample ID:	M3859-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044864.D	1		09/26/21 02:43	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		78 - 117	96%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	49.0		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	5.378			
540-36-3	1,4-Difluorobenzene	314000	6.253			
3114-55-4	Chlorobenzene-d5	293000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	132000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1033-TB092021	SDG No.:	M3859
Lab Sample ID:	M3859-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044864.D	1		09/26/21 02:43	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044864.D
Acq On : 26 Sep 2021 02:43
Operator : SY/MD
Sample : M3859-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1033-TB092021

Quant Time: Sep 27 03:14:30 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

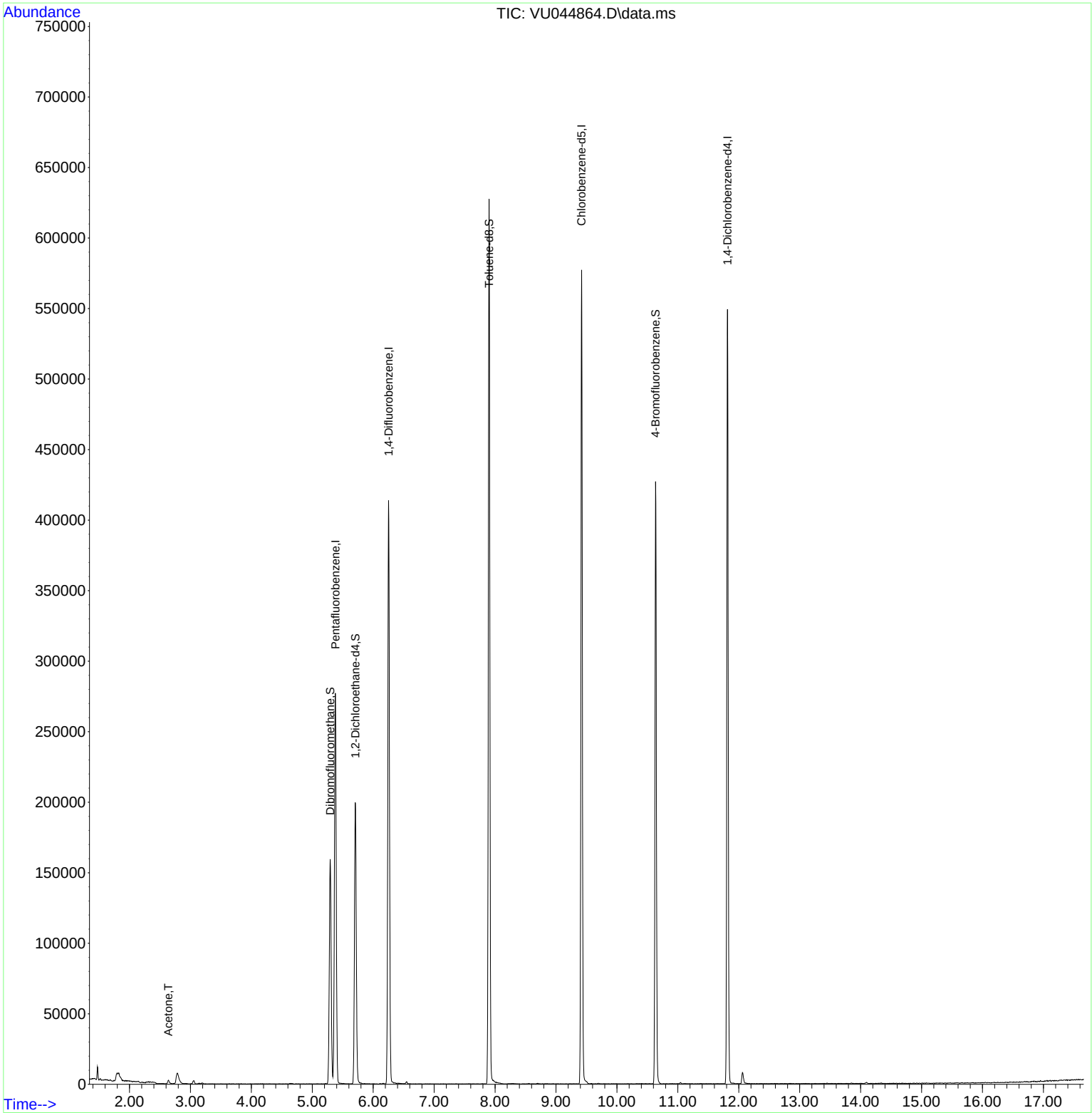
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	178395	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	314089	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	293216	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	131605	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	149511	48.021	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.040%		
35) Dibromofluoromethane	5.295	113	101756	47.225	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.460%		
50) Toluene-d8	7.902	98	399086	49.041	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.080%		
62) 4-Bromofluorobenzene	10.635	95	139642	46.200	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.400%		
Target Compounds						Qvalue
16) Acetone	2.639	43	3206	1.826	ug/l	99

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

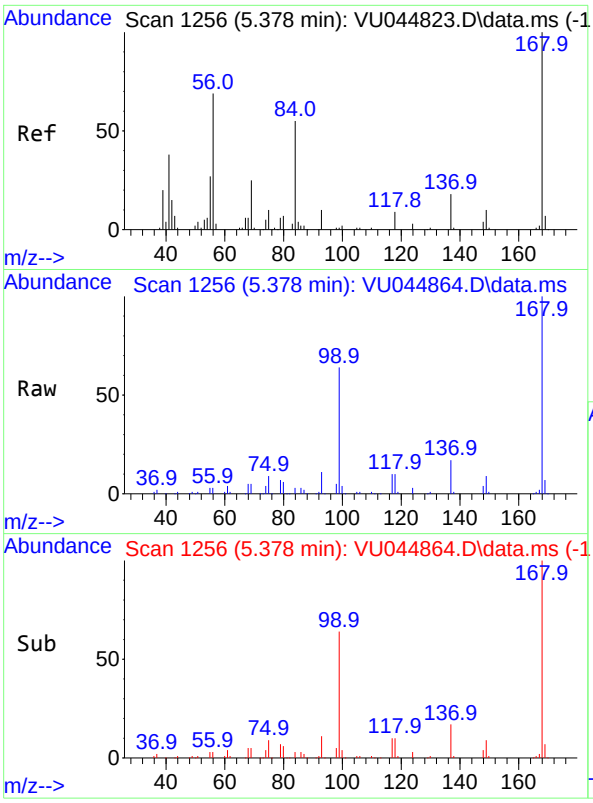
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044864.D
Acq On : 26 Sep 2021 02:43
Operator : SY/MD
Sample : M3859-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

Quant Time: Sep 27 03:14:30 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



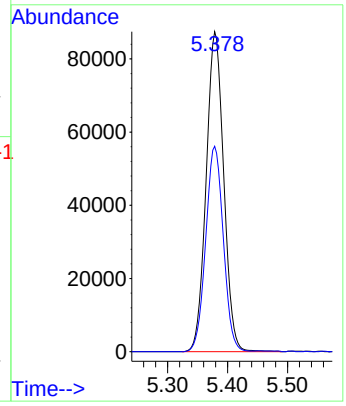
Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

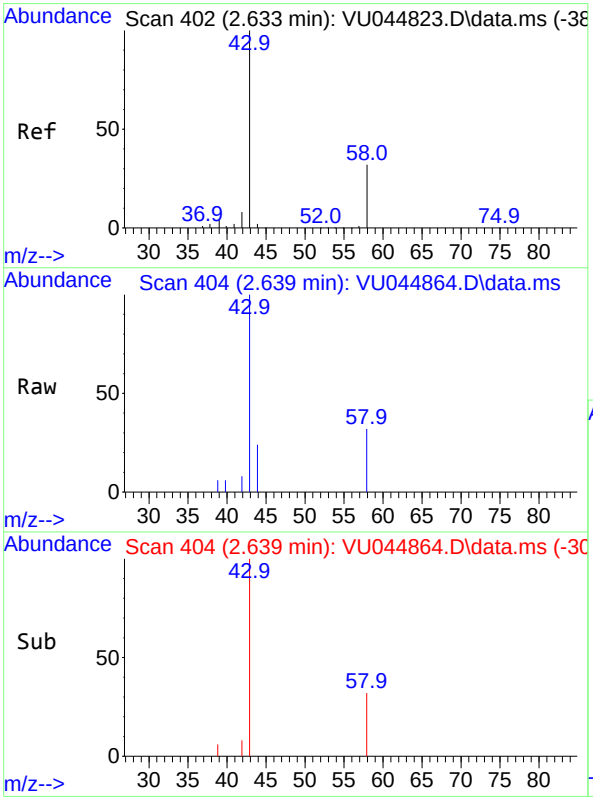


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion:168 Resp: 178395

Ion	Ratio	Lower	Upper
168	100		
99	64.2	51.4	77.0

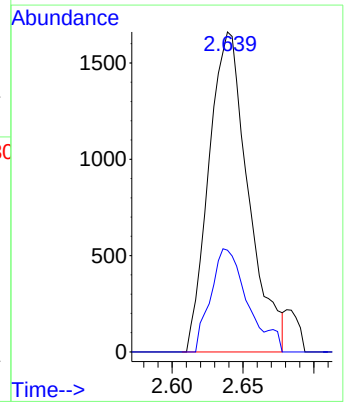




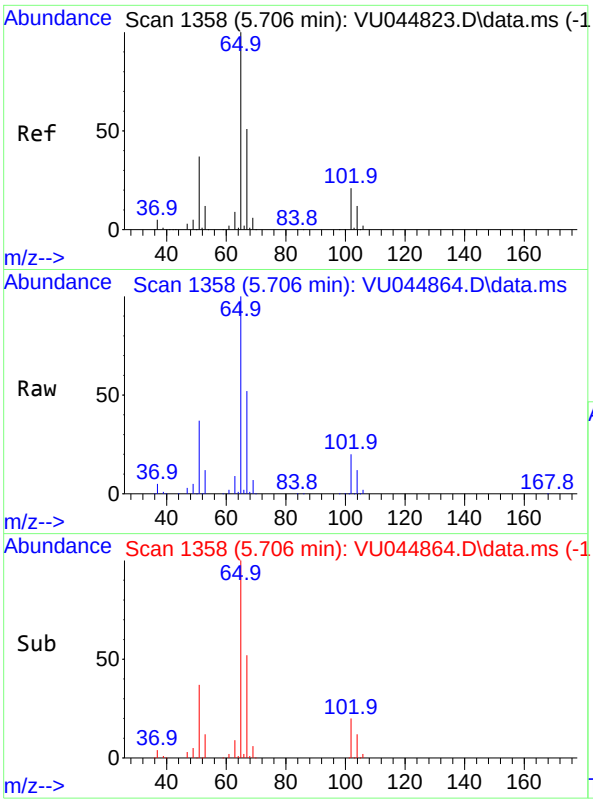
#16
Acetone
Concen: 1.826 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.006 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion: 43 Resp: 3206

Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.2	37.8



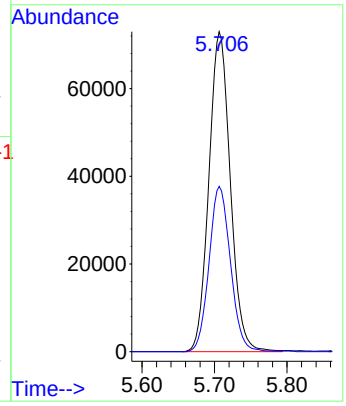
Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

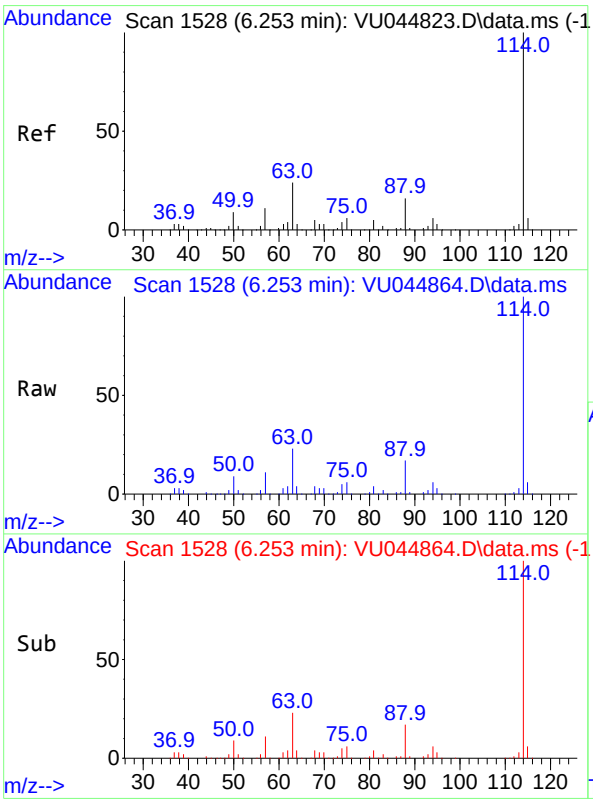


#33
1,2-Dichloroethane-d4
Concen: 48.021 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion: 65 Resp: 149511

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.8

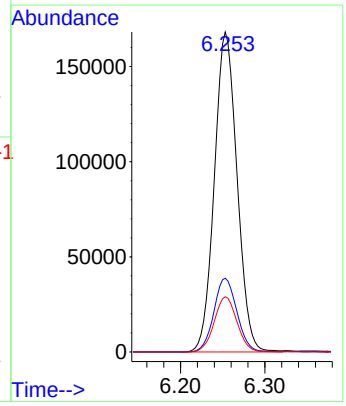




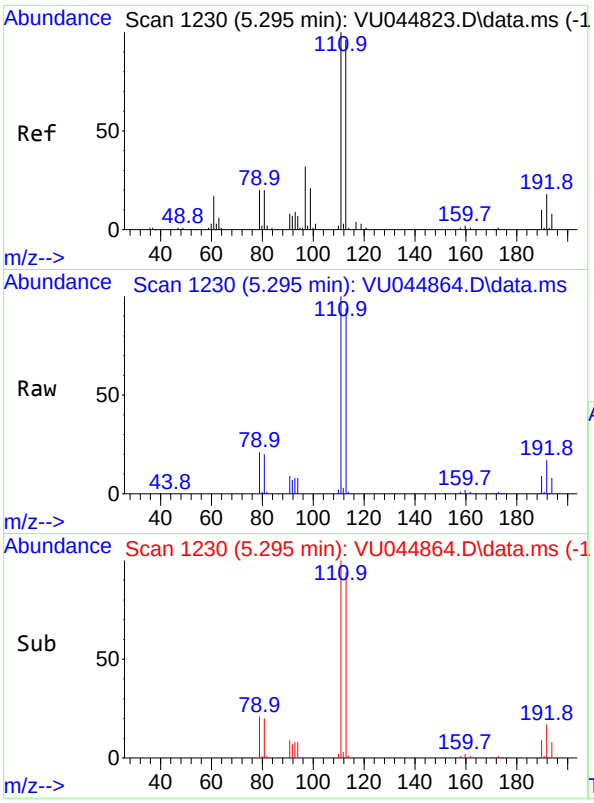
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion:114 Resp: 314089

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	47.8
88	17.3	0.0	32.8



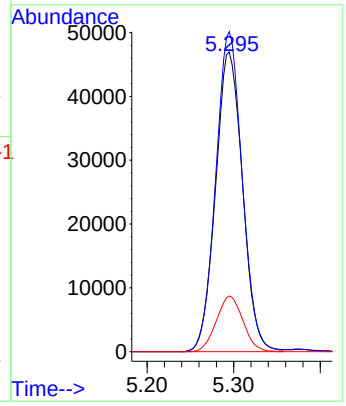
Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

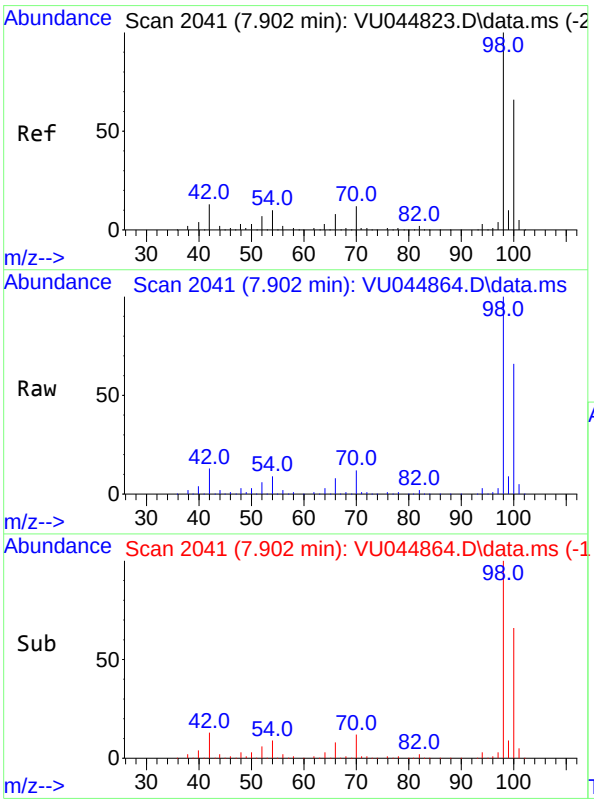


#35
Dibromofluoromethane
Concen: 47.225 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion:113 Resp: 101756

Ion	Ratio	Lower	Upper
113	100		
111	104.5	84.1	126.1
192	18.3	14.8	22.2

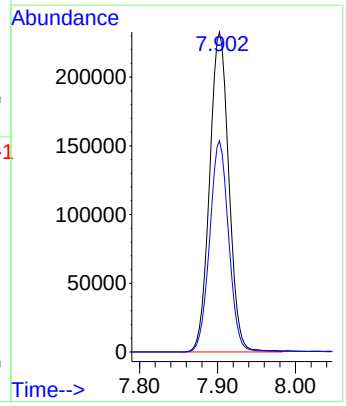




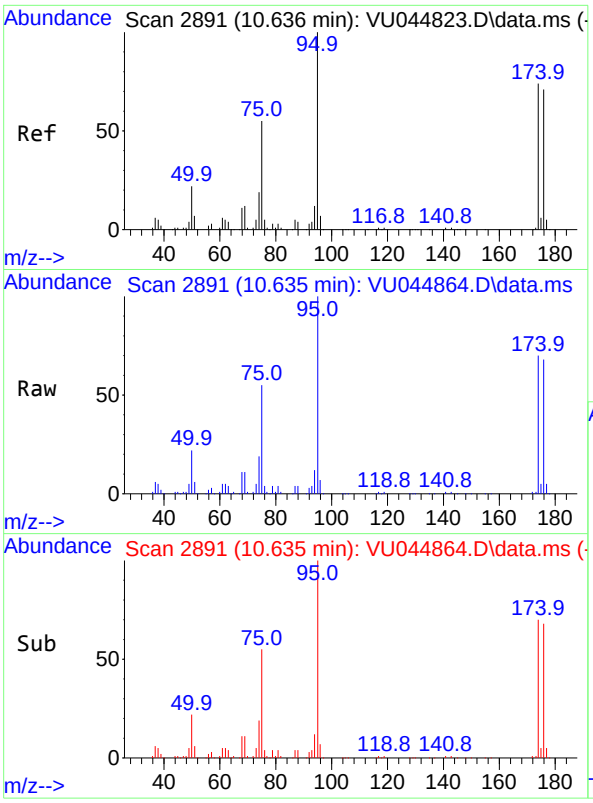
#50
Toluene-d8
Concen: 49.041 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion: 98 Resp: 399086

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.5	78.7



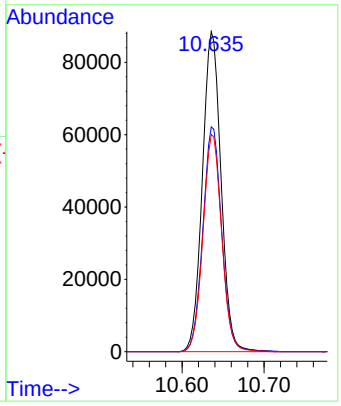
Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

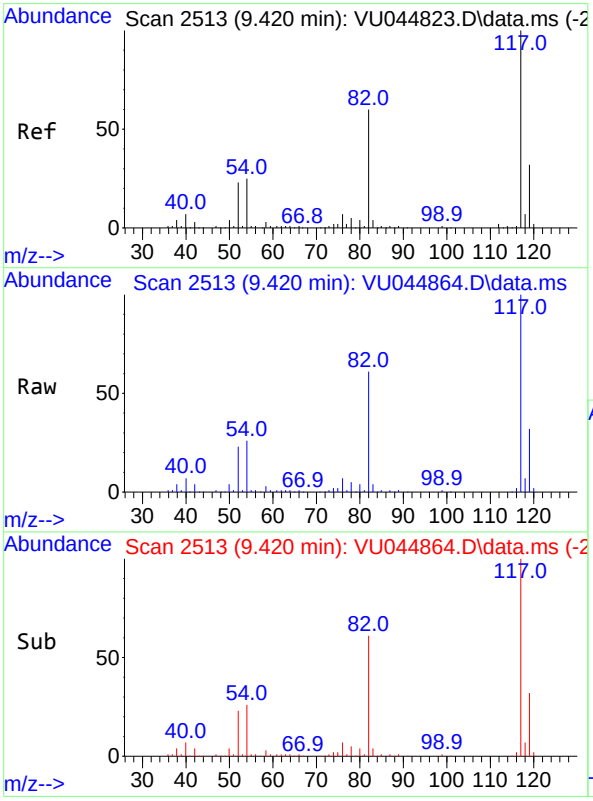


#62
4-Bromofluorobenzene
Concen: 46.200 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion: 95 Resp: 139642

Ion	Ratio	Lower	Upper
95	100		
174	71.1	0.0	146.6
176	68.0	0.0	141.2

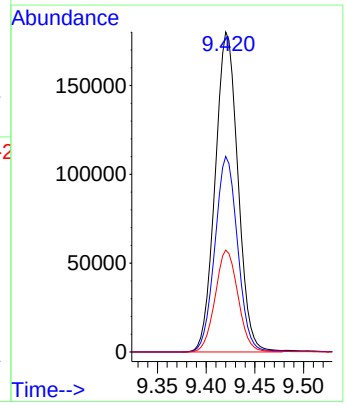




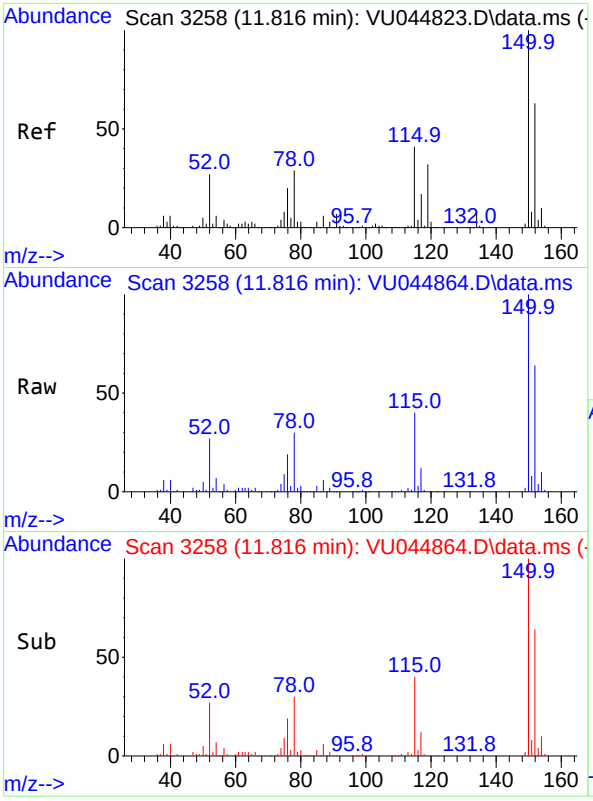
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion:117 Resp: 293216

Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.8	71.8
119	31.9	25.8	38.6



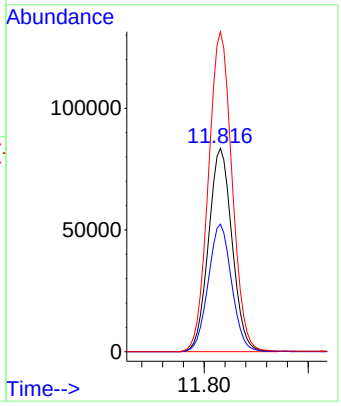
Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044864.D
Acq: 26 Sep 2021 02:43

Tgt Ion:152 Resp: 131605

Ion	Ratio	Lower	Upper
152	100		
115	62.4	43.5	130.7
150	157.5	0.0	350.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044864.D
Acq On : 26 Sep 2021 02:43
Operator : SY/MD
Sample : M3859-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1033-TB092021

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044864.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.787	432	450	468	rBV2	7450	22857	2.13%	0.403%
2	5.295	1214	1230	1243	rBV	159212	337334	31.44%	5.950%
3	5.378	1243	1256	1273	rVB2	276418	559851	52.18%	9.874%
4	5.706	1342	1358	1380	rBV	199469	407908	38.02%	7.194%
5	6.253	1512	1528	1555	rBV	413546	775990	72.33%	13.686%
6	7.902	2026	2041	2059	rBV	627260	1072913	100.00%	18.923%
7	9.420	2500	2513	2549	rBV	577001	939603	87.57%	16.572%
8	10.635	2879	2891	2918	rBV	426957	670714	62.51%	11.829%
9	11.816	3244	3258	3276	rBV	549071	867639	80.87%	15.303%
10	12.060	3324	3334	3348	rBV2	7884	15065	1.40%	0.266%

Sum of corrected areas: 5669874

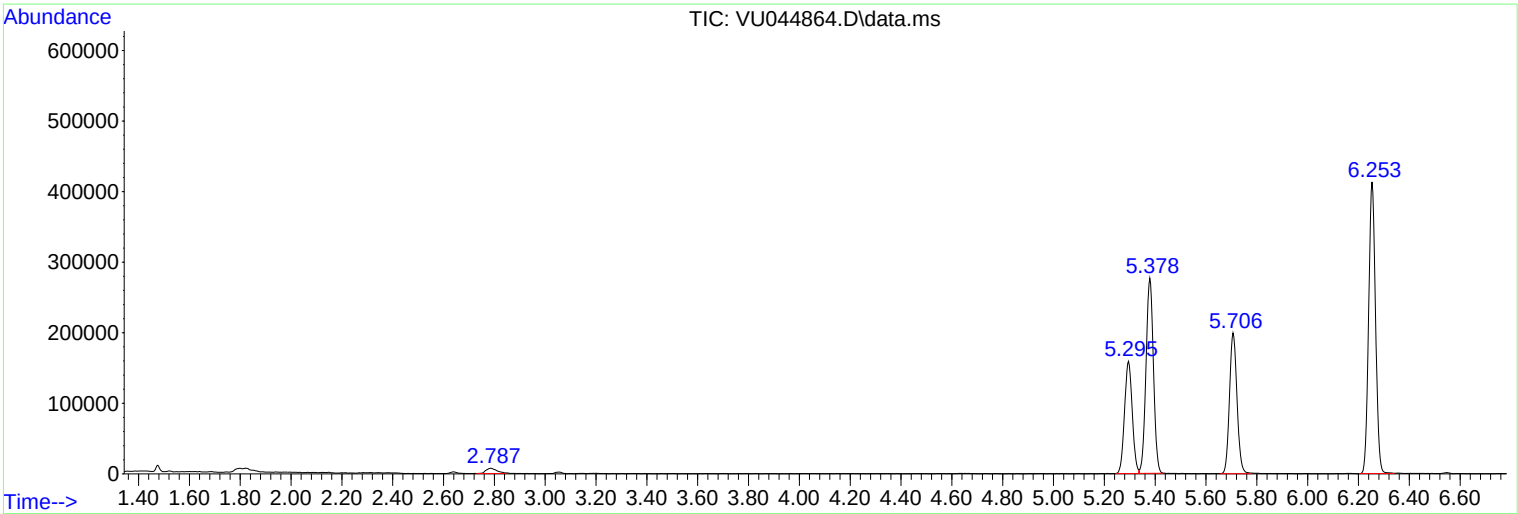
Sample Results: **VU044864.D**

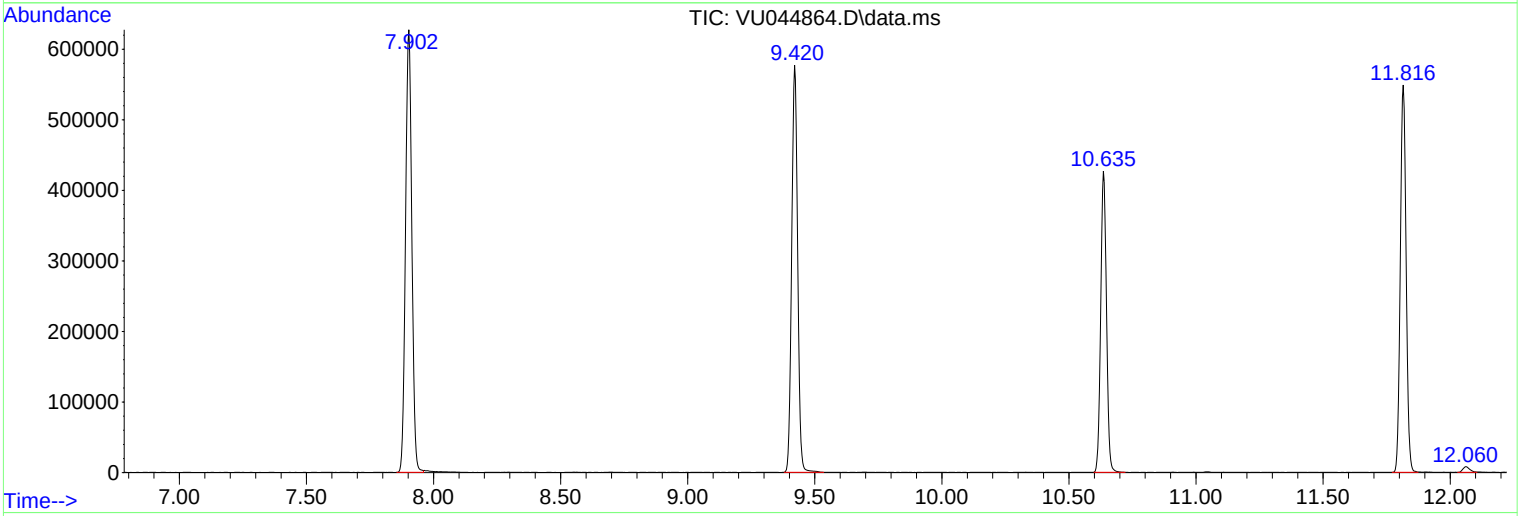
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044864.D
Acq On : 26 Sep 2021 02:43
Operator : SY/MD
Sample : M3859-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

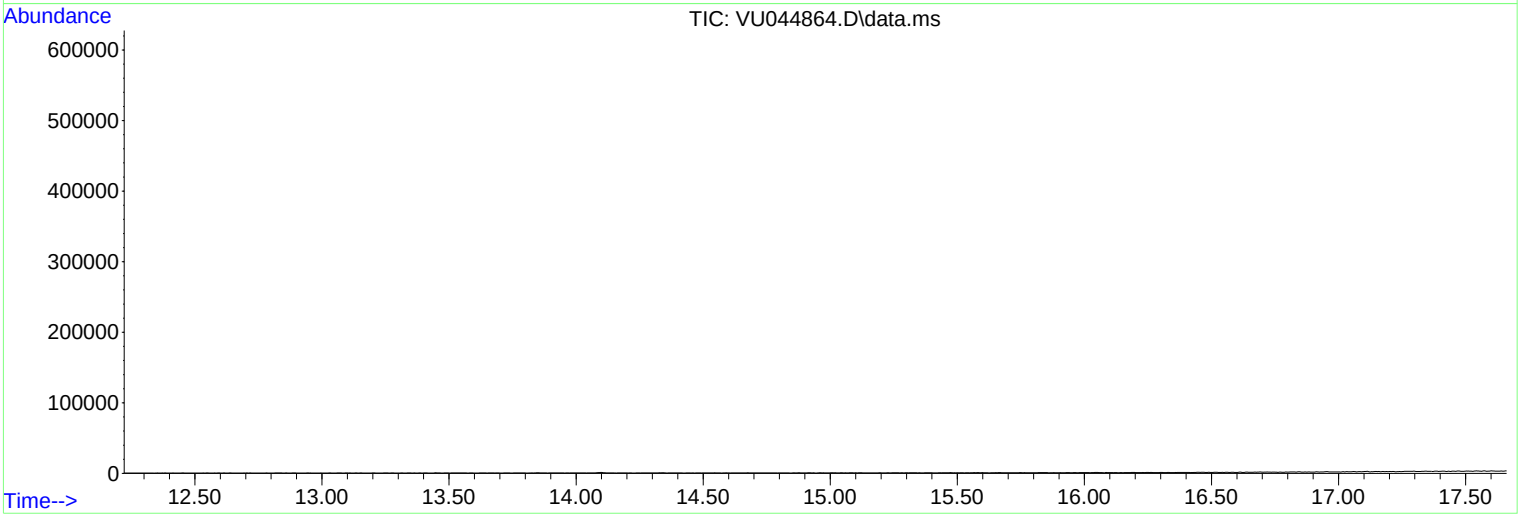
Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044864.D
Acq On : 26 Sep 2021 02:43
Operator : SY/MD
Sample : M3859-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044864.D
Acq On : 26 Sep 2021 02:43
Operator : SY/MD
Sample : M3859-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1033-TB092021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VU044820.D RRF005 = VU044821.D RRF020 = VU044822.D
RRF050 = VU044823.D RRF100 = VU044824.D RRF150 = VU044825.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.586	0.542	0.630	0.614	0.625	0.597	0.599	5.5
Chloromethane	1.150	0.892	0.899	0.860	0.855	0.797	0.909	13.6
Vinyl Chloride	0.853	0.849	0.902	0.840	0.846	0.799	0.848	3.9
Bromomethane		0.543	0.512	0.413	0.402	0.382	0.450	16
Chloroethane	0.999	0.581	0.590	0.556	0.570		0.659	28.9
Trichlorofluoromethane	1.071	1.076	1.088	1.036	1.027	0.952	1.042	4.8
1,1,2-Trichlorotrifluoroethane	0.603	0.621	0.635	0.611	0.608	0.572	0.608	3.4
1,1-Dichloroethene	0.631	0.587	0.602	0.598	0.615	0.579	0.602	3.2
Acetone	0.586	0.504	0.481	0.475	0.474	0.434	0.492	10.4
Carbon Disulfide	1.793	1.658	1.690	1.671	1.724	1.626	1.694	3.5
Methyl tert-butyl Ether	2.130	2.126	2.278	2.317	2.387	2.250	2.248	4.6
Methyl Acetate	1.717	1.706	1.669	1.628	1.634	1.513	1.644	4.5
Methylene Chloride	1.015	0.804	0.770	0.750	0.747	0.696	0.797	14.1
trans-1,2-Dichloroethene	0.625	0.641	0.664	0.653	0.662	0.624	0.645	2.7
1,1-Dichloroethane	1.278	1.353	1.391	1.358	1.376	1.286	1.340	3.5
Cyclohexane		1.394	1.261	1.212	1.231	1.167	1.253	6.9
2-Butanone	0.725	0.719	0.763	0.767	0.790	0.718	0.747	4.1
Carbon Tetrachloride	0.421	0.471	0.485	0.493	0.505	0.470	0.474	6.2
cis-1,2-Dichloroethene	0.844	0.756	0.782	0.778	0.798	0.746	0.784	4.4
Bromochloromethane	0.689	0.660	0.616	0.639	0.621	0.596	0.637	5.2
Chloroform	1.390	1.400	1.379	1.324	1.344	1.248	1.347	4.2
1,1,1-Trichloroethane	1.085	1.080	1.092	1.090	1.130	1.055	1.089	2.2
Methylcyclohexane	0.514	0.563	0.599	0.634	0.661	0.629	0.600	9
Benzene	1.650	1.617	1.626	1.627	1.650	1.534	1.617	2.7
1,2-Dichloroethane	0.649	0.657	0.651	0.632	0.637	0.592	0.636	3.7
Trichloroethene	0.458	0.372	0.379	0.378	0.386	0.359	0.389	9
1,2-Dichloropropane	0.418	0.423	0.455	0.457	0.454	0.420	0.438	4.4
Bromodichloromethane	0.572	0.546	0.569	0.584	0.598	0.562	0.572	3.1
4-Methyl-2-Pentanone	0.675	0.731	0.778	0.802	0.856	0.816	0.776	8.3
Toluene	0.871	0.952	1.002	0.997	1.020	0.959	0.967	5.6
t-1,3-Dichloropropene	0.494	0.539	0.588	0.628	0.675	0.652	0.596	11.6
cis-1,3-Dichloropropene	0.563	0.598	0.642	0.675	0.716	0.679	0.646	8.8
1,1,2-Trichloroethane	0.394	0.426	0.419	0.416	0.425	0.401	0.413	3.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VU044820.D RRF005 = VU044821.D RRF020 = VU044822.D
RRF050 = VU044823.D RRF100 = VU044824.D RRF150 = VU044825.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Hexanone	0.520	0.576	0.624	0.642	0.711	0.666	0.623	10.9
Dibromochloromethane	0.355	0.370	0.392	0.407	0.435	0.417	0.396	7.5
1,2-Dibromoethane	0.403	0.434	0.430	0.439	0.464	0.435	0.434	4.4
Tetrachloroethene	0.318	0.349	0.358	0.352	0.338	0.319	0.339	5.1
Chlorobenzene	1.009	1.014	1.050	1.051	1.076	1.028	1.038	2.5
Ethyl Benzene	1.561	1.749	1.876	1.963	2.029	1.939	1.853	9.3
m/p-Xylenes	0.591	0.651	0.733	0.762	0.778	0.737	0.709	10.2
o-Xylene	0.555	0.629	0.699	0.736	0.762	0.731	0.685	11.5
Styrene	0.831	1.012	1.191	1.257	1.323	1.289	1.150	16.6
Bromoform	0.255	0.275	0.297	0.311	0.347	0.353	0.306	12.6
Isopropylbenzene	3.225	3.450	3.701	3.773	3.687	3.457	3.549	5.9
1,1,2,2-Tetrachloroethane	1.778	1.656	1.556	1.562	1.621	1.528	1.617	5.7
1,3-Dichlorobenzene	1.604	1.643	1.660	1.660	1.694	1.611	1.645	2.1
1,4-Dichlorobenzene	1.748	1.704	1.690	1.691	1.729	1.647	1.701	2
1,2-Dichlorobenzene	1.887	1.682	1.714	1.717	1.790	1.671	1.744	4.7
1,2-Dibromo-3-Chloropropane	0.380	0.358	0.379	0.408	0.432	0.395	0.392	6.6
1,2,4-Trichlorobenzene	0.811	0.830	0.939	1.040	1.116	1.045	0.963	12.9
1,2,3-Trichlorobenzene	0.850	0.812	0.993	1.082	1.112	1.030	0.980	12.5
1,2-Dichloroethane-d4		0.888	0.907	0.862	0.868	0.837	0.873	3
Dibromofluoromethane		0.345	0.354	0.339	0.345	0.332	0.343	2.3
Toluene-d8		1.218	1.329	1.299	1.338	1.293	1.295	3.6
4-Bromofluorobenzene		0.423	0.470	0.470	0.519	0.524	0.481	8.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report VOC_U

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
Method File : 82U092421W.M
Title : SW846 8260
Last Update : Tue Sep 28 11:39:06 2021
Response Via : Initial Calibration

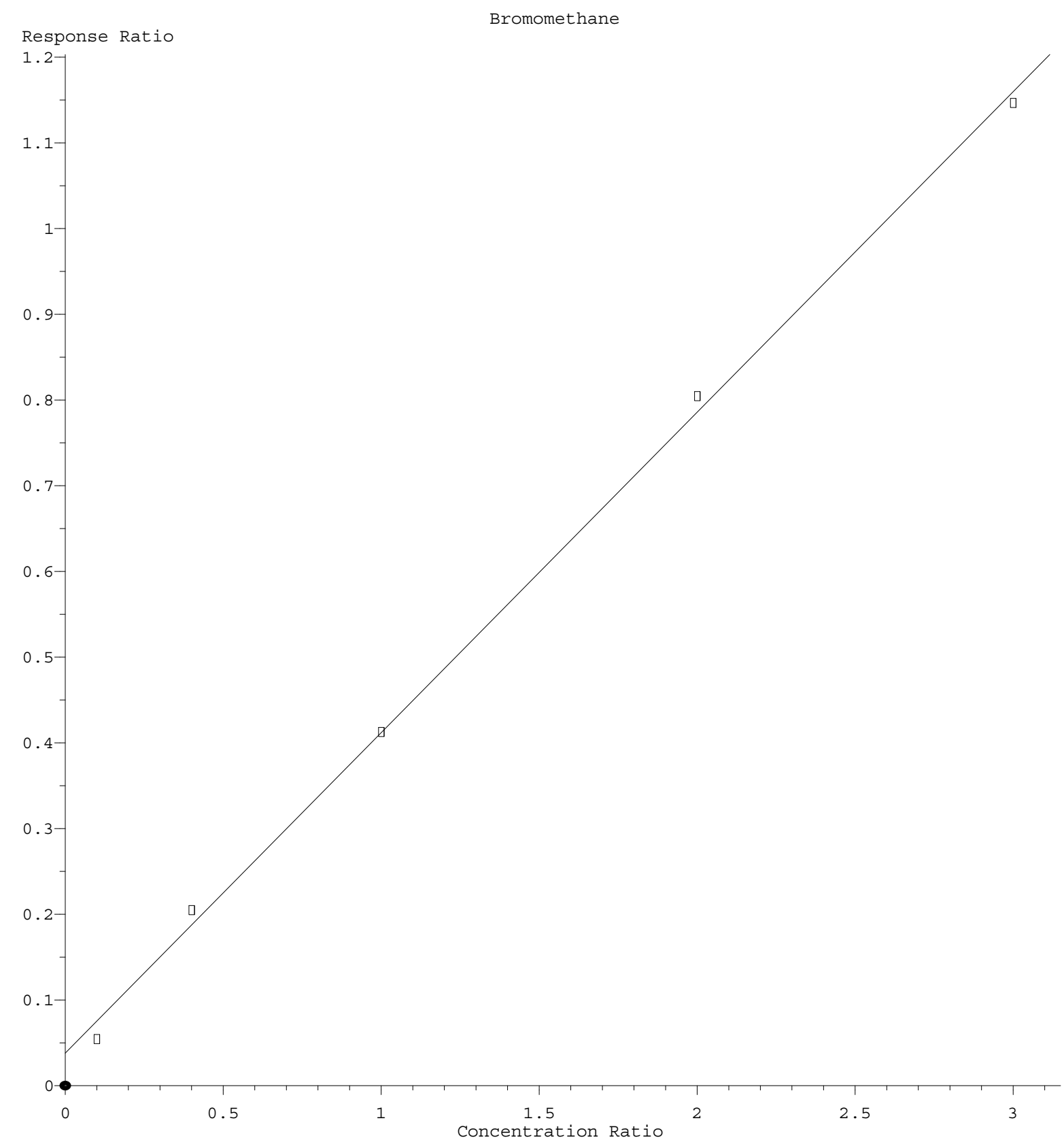
Calibration Files
1 =VU044820.D 5 =VU044821.D 20 =VU044822.D 50 =VU044823.D 100 =VU044824.D 150 =VU044825.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.586	0.542	0.630	0.614	0.625	0.597	0.599	5.46
3)	P	Chloromethane	1.150	0.892	0.899	0.860	0.855	0.797	0.909	13.63
4)	C	Vinyl Chloride	0.853	0.849	0.902	0.840	0.846	0.799	0.848	3.88#
5)	T	Bromomethane		0.543	0.512	0.413	0.402	0.382	0.450	16.00
6)	T	Chloroethane	0.999	0.581	0.590	0.556	0.570		0.659	28.89
7)	T	Trichlorofluor...	1.071	1.076	1.088	1.036	1.027	0.952	1.042	4.80
8)	T	Diethyl Ether	0.445	0.496	0.489	0.482	0.489	0.460	0.477	4.12
9)	T	1,1,2-Trichlor...	0.603	0.621	0.635	0.611	0.608	0.572	0.608	3.45
10)	T	Methyl Iodide		0.564	0.657	0.703	0.721	0.659	0.661	9.20
11)	T	Tert butyl alc...		0.296	0.240	0.244	0.256	0.237	0.255	9.62
12)	CM	1,1-Dichloroet...	0.631	0.587	0.602	0.598	0.615	0.579	0.602	3.16#
13)	T	Acrolein		0.094	0.058	0.069	0.071	0.068	0.072	18.79
14)	T	Allyl chloride	1.210	1.144	1.173	1.180	1.205	1.098	1.169	3.57
15)	T	Acrylonitrile	0.515	0.538	0.535	0.543	0.550	0.511	0.532	2.97
16)	T	Acetone	0.586	0.504	0.481	0.475	0.474	0.434	0.492	10.40
17)	T	Carbon Disulfide	1.793	1.658	1.690	1.670	1.724	1.626	1.694	3.46
18)	T	Methyl Acetate	1.717	1.706	1.669	1.628	1.634	1.513	1.644	4.50
19)	T	Methyl tert-bu...	2.130	2.126	2.278	2.317	2.387	2.250	2.248	4.61
20)	T	Methylene Chlo...	1.015	0.804	0.770	0.750	0.747	0.696	0.797	14.12
21)	T	trans-1,2-Dich...	0.625	0.641	0.664	0.653	0.662	0.624	0.645	2.73
22)	T	Diisopropyl ether	2.042	2.231	2.397	2.387	2.462	2.334	2.309	6.57
23)	T	Vinyl Acetate	1.617	1.742	1.927	1.992	2.097	1.985	1.893	9.45
24)	P	1,1-Dichloroet...	1.278	1.353	1.391	1.357	1.376	1.286	1.340	3.53
25)	T	2-Butanone	0.725	0.719	0.763	0.767	0.790	0.718	0.747	4.07
26)	T	2,2-Dichloropr...	1.073	0.966	1.004	1.003	1.026	0.958	1.005	4.18
27)	T	cis-1,2-Dichlo...	0.844	0.756	0.782	0.778	0.798	0.746	0.784	4.43
28)	T	Bromochloromet...	0.689	0.660	0.616	0.639	0.621	0.596	0.637	5.21
29)	T	Tetrahydrofuran	0.434	0.456	0.480	0.489	0.501	0.459	0.470	5.25
30)	C	Chloroform	1.390	1.400	1.379	1.324	1.344	1.248	1.347	4.20#
31)	T	Cyclohexane		1.394	1.261	1.212	1.231	1.167	1.253	6.85
32)	T	1,1,1-Trichlor...	1.085	1.080	1.092	1.090	1.130	1.055	1.089	2.22
33)	S	1,2-Dichloroet...		0.888	0.907	0.862	0.868	0.837	0.873	3.03
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.345	0.354	0.339	0.345	0.332	0.343	2.31
36)	T	1,1-Dichloropr...	0.513	0.517	0.542	0.540	0.551	0.521	0.531	2.94
37)	T	Ethyl Acetate	0.824	0.744	0.776	0.781	0.798	0.748	0.778	3.90
38)	T	Carbon Tetrach...	0.421	0.471	0.485	0.493	0.505	0.470	0.474	6.21
39)	T	Methylcyclohexane	0.514	0.563	0.599	0.634	0.661	0.629	0.600	9.01
40)	TM	Benzene	1.650	1.617	1.626	1.627	1.650	1.534	1.617	2.65
41)	T	Methacrylonitrile	0.338	0.367	0.403	0.411	0.422	0.389	0.389	8.01
42)	TM	1,2-Dichloroet...	0.649	0.657	0.651	0.632	0.637	0.592	0.636	3.70
43)	T	Isopropyl Acetate	1.006	1.067	1.086	1.105	1.163	1.107	1.089	4.75
44)	TM	Trichloroethene	0.458	0.372	0.379	0.378	0.386	0.359	0.389	9.00
45)	C	1,2-Dichloropr...	0.418	0.423	0.455	0.457	0.454	0.420	0.438	4.38#
46)	T	Dibromomethane	0.272	0.298	0.298	0.295	0.299	0.279	0.290	4.07
47)	T	Bromodichlorom...	0.572	0.546	0.569	0.584	0.598	0.562	0.572	3.11
48)	T	Methyl methacr...	0.450	0.476	0.505	0.540	0.571	0.542	0.514	8.85
49)	T	1,4-Dioxane	0.011	0.012	0.014	0.014	0.015	0.013	0.013	11.89
50)	S	Toluene-d8		1.218	1.329	1.299	1.338	1.293	1.295	3.64
51)	T	4-Methyl-2-Pen...	0.675	0.731	0.778	0.802	0.856	0.816	0.776	8.33
52)	CM	Toluene	0.871	0.952	1.002	0.997	1.020	0.959	0.967	5.58#
53)	T	t-1,3-Dichloro...	0.494	0.539	0.588	0.628	0.675	0.652	0.596	11.61
54)	T	cis-1,3-Dichlo...	0.563	0.598	0.642	0.675	0.716	0.679	0.646	8.76
55)	T	1,1,2-Trichlor...	0.394	0.426	0.419	0.416	0.425	0.401	0.413	3.20
56)	T	Ethyl methacry...	0.493	0.557	0.646	0.693	0.773	0.752	0.652	16.87

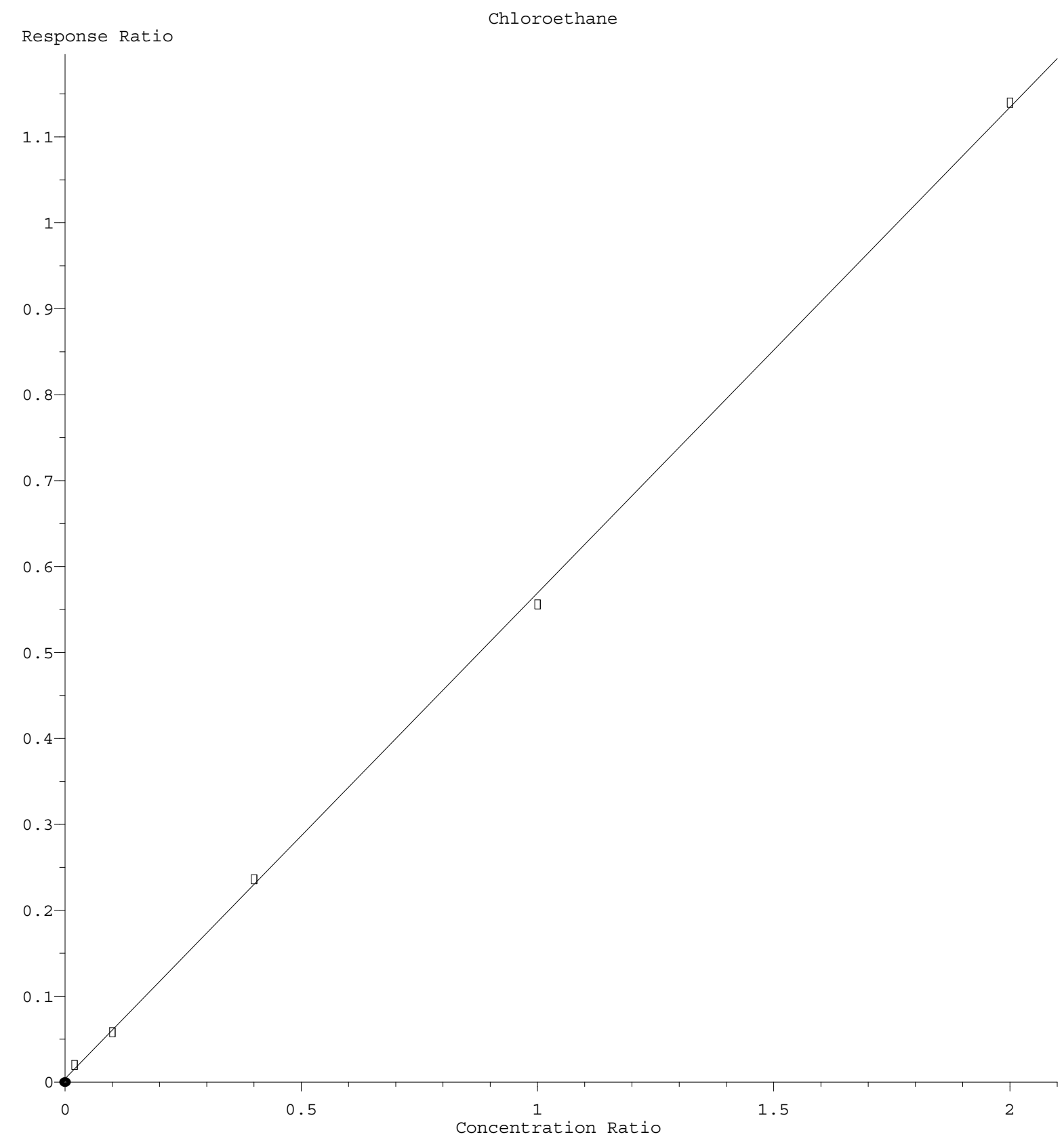
Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
Method File : 82U092421W.M

57)	T	1,3-Dichloropr...	0.707	0.728	0.751	0.744	0.766	0.721	0.736	2.94
58)	T	2-Chloroethyl ...	0.102	0.117	0.120	0.152	0.188	0.192	0.145	26.26
59)	T	2-Hexanone	0.520	0.576	0.624	0.642	0.711	0.666	0.623	10.86
60)	T	Dibromochlorom...	0.355	0.370	0.392	0.407	0.435	0.417	0.396	7.54
61)	T	1,2-Dibromoethane	0.403	0.434	0.430	0.439	0.464	0.435	0.434	4.43
62)	S	4-Bromofluorob...		0.423	0.470	0.470	0.519	0.524	0.481	8.64
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.318	0.349	0.358	0.352	0.338	0.319	0.339	5.10
65)	PM	Chlorobenzene	1.009	1.014	1.050	1.051	1.076	1.028	1.038	2.47
66)	T	1,1,1,2-Tetrac...	0.357	0.365	0.369	0.377	0.382	0.370	0.370	2.38
67)	C	Ethyl Benzene	1.561	1.749	1.876	1.963	2.029	1.939	1.853	9.26#
68)	T	m/p-Xylenes	0.591	0.651	0.733	0.762	0.778	0.737	0.709	10.21
69)	T	o-Xylene	0.555	0.629	0.699	0.736	0.762	0.731	0.685	11.45
70)	T	Styrene	0.831	1.012	1.191	1.257	1.323	1.289	1.150	16.64
71)	P	Bromoform	0.255	0.275	0.297	0.311	0.347	0.353	0.306	12.62
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.225	3.450	3.701	3.773	3.687	3.457	3.549	5.85
74)	T	N-amyl acetate	1.476	1.608	1.756	1.927	2.080	2.006	1.809	13.10
75)	P	1,1,2,2-Tetrac...	1.778	1.656	1.556	1.562	1.621	1.528	1.617	5.69
76)	T	1,2,3-Trichlor...	1.568	1.519	1.481	1.482	1.591	1.442	1.514	3.75
77)	T	Bromobenzene	0.829	0.829	0.877	0.868	0.862	0.822	0.848	2.82
78)	T	n-propylbenzene	3.747	4.097	4.421	4.618	4.590	4.326	4.300	7.70
79)	T	2-Chlorotoluene	2.427	2.630	2.704	2.737	2.689	2.537	2.621	4.51
80)	T	1,3,5-Trimethy...	2.528	2.821	3.160	3.281	3.219	3.026	3.006	9.50
81)	T	trans-1,4-Dich...		0.393	0.432	0.479	0.521	0.512	0.467	11.60
82)	T	4-Chlorotoluene	2.565	2.906	3.117	3.162	3.142	3.009	2.984	7.60
83)	T	tert-Butylbenzene	2.516	2.787	2.947	3.068	3.123	2.958	2.900	7.61
84)	T	1,2,4-Trimethy...	2.354	2.754	3.122	3.265	3.234	3.052	2.964	11.81
85)	T	sec-Butylbenzene	2.921	3.532	3.941	4.107	4.099	3.899	3.750	12.18
86)	T	p-Isopropyltol...	2.247	2.813	3.233	3.377	3.404	3.230	3.051	14.66
87)	T	1,3-Dichlorobe...	1.604	1.643	1.660	1.660	1.694	1.611	1.645	2.06
88)	T	1,4-Dichlorobe...	1.748	1.704	1.690	1.691	1.729	1.647	1.701	2.04
89)	T	n-Butylbenzene	2.100	2.402	2.804	3.102	3.246	3.177	2.805	16.58
90)	T	Hexachloroethane	0.518	0.529	0.535	0.555	0.584	0.578	0.550	4.90
91)	T	1,2-Dichlorobe...	1.887	1.682	1.714	1.717	1.790	1.671	1.744	4.69
92)	T	1,2-Dibromo-3-...	0.380	0.358	0.379	0.408	0.432	0.395	0.392	6.63
93)	T	1,2,4-Trichlor...	0.811	0.830	0.939	1.040	1.116	1.045	0.963	12.90
94)	T	Hexachlorobuta...	0.387	0.413	0.424	0.443	0.466	0.439	0.429	6.40
95)	T	Naphthalene	2.733	2.406	3.230	3.908	4.092	3.788	3.360	20.35
96)	T	1,2,3-Trichlor...	0.850	0.812	0.993	1.082	1.112	1.030	0.980	12.55

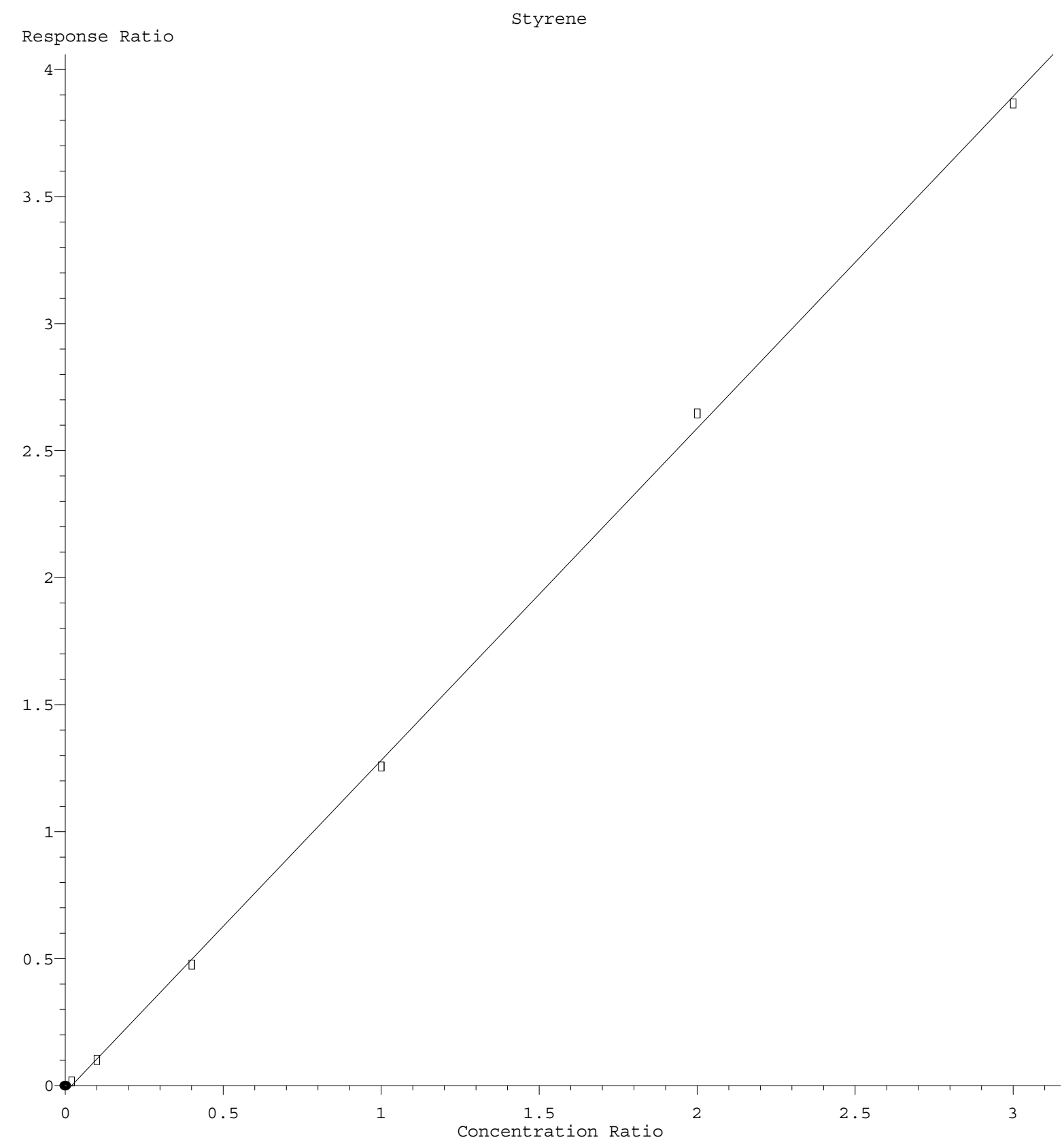
(#) = Out of Range



Response = 3.739e-001 * Amt + 3.842e-002
Coef of Det (r^2) = 0.998423 Curve Fit: Linear
Method: C:\msdchem\1\DATA\rv\HPCHEM1\MSVOA U\Method\82U092421W.M
Calibration Table Last Updated: Tue Sep 28 11:39:06 2021



Response = 5.649e-001 * Amt + 4.219e-003
Coef of Det (r^2) = 0.999688 Curve Fit: Linear
Method: C:\MSDChem\1\DATA\rv\HPCHEM1\MSVOA U\Method\82U092421W.M
Calibration Table Last Updated: Tue Sep 28 11:39:06 2021



Response = 1.307e+000 * Amt - 2.643e-002
Coef of Det (r^2) = 0.999546 Curve Fit: Linear
Method: C:\MSDChem\1\DATA\rv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Calibration Table Last Updated: Tue Sep 28 11:39:06 2021

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044820.D
Acq On : 24 Sep 2021 19:19
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 25 00:57:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICC001

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	138337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	253014	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	240542	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	103826	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000			Recovery =	0.000%		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000			Recovery =	0.000%		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000			Recovery =	0.000%		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000			Recovery =	0.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	1620	0.843	ug/l	93
3) Chloromethane	1.520	50	3183	1.224	ug/l	99
4) Vinyl Chloride	1.607	62	2361	1.003	ug/l #	73
6) Chloroethane	1.932	64	2764	1.824	ug/l	93
7) Trichlorofluoromethane	2.141	101	2963	1.044	ug/l	99
8) Diethyl Ether	2.378	74	1232	1.038	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.578	101	1669	0.969	ug/l	94
12) 1,1-Dichloroethene	2.584	96	1747	1.021	ug/l	91
14) Allyl chloride	2.928	41	3348	1.041	ug/l	97
15) Acrylonitrile	3.321	53	7127	5.602	ug/l	97
16) Acetone	2.629	43	8107	6.125	ug/l	95
17) Carbon Disulfide	2.796	76	4960	0.920	ug/l	100
18) Methyl Acetate	2.954	43	4750	1.523	ug/l	92
19) Methyl tert-butyl Ether	3.372	73	5893	1.091	ug/l	96
20) Methylene Chloride	3.050	84	2808	1.250	ug/l	92
21) trans-1,2-Dichloroethene	3.359	96	1729	0.919	ug/l	87
22) Diisopropyl ether	4.002	45	5651	0.999	ug/l	90
23) Vinyl Acetate	3.964	43	22375	4.278	ug/l #	94
24) 1,1-Dichloroethane	3.874	63	3535	0.959	ug/l #	93
25) 2-Butanone	4.713	43	10023	5.296	ug/l	100
26) 2,2-Dichloropropane	4.671	77	2968	1.030	ug/l	90
27) cis-1,2-Dichloroethene	4.668	96	2335	1.100	ug/l	95
28) Bromochloromethane	4.980	49	1905	1.086	ug/l #	95
29) Tetrahydrofuran	5.063	42	6005	5.689	ug/l	98
30) Chloroform	5.099	83	3847	1.068	ug/l	96
32) 1,1,1-Trichloroethane	5.321	97	3002	1.005	ug/l #	53
36) 1,1-Dichloropropene	5.533	75	2595	0.921	ug/l	88
37) Ethyl Acetate	4.809	43	4170	1.198	ug/l #	88
38) Carbon Tetrachloride	5.533	117	2129	0.837	ug/l	96
39) Methylcyclohexane	6.764	83	2599	0.853	ug/l	97
40) Benzene	5.777	78	8350	0.999	ug/l	98
41) Methacrylonitrile	4.983	41	1712	0.964	ug/l #	93
42) 1,2-Dichloroethane	5.800	62	3283	1.092	ug/l	88
43) Isopropyl Acetate	5.915	43	5093	1.036	ug/l	96
44) Trichloroethene	6.549	130	2316	1.200	ug/l	100
45) 1,2-Dichloropropane	6.796	63	2115	0.922	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044820.D
Acq On : 24 Sep 2021 19:19
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VSTDICC001

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

Quant Time: Sep 25 00:57:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	6.922	93	1375	0.931 ug/l	97
47) Bromodichloromethane	7.111	83	2897	0.999 ug/l #	90
48) Methyl methacrylate	6.964	41	2279	0.954 ug/l	97
49) 1,4-Dioxane	6.973	88	1088	17.474 ug/l #	89
51) 4-Methyl-2-Pentanone	7.796	43	17066	4.813 ug/l	97
52) Toluene	7.976	92	4407	0.890 ug/l	94
53) t-1,3-Dichloropropene	8.214	75	2502	0.795 ug/l	94
54) cis-1,3-Dichloropropene	7.613	75	2849	0.839 ug/l	98
55) 1,1,2-Trichloroethane	8.404	97	1993	0.954 ug/l	95
56) Ethyl methacrylate	8.343	69	2495	0.781 ug/l	96
57) 1,3-Dichloropropane	8.581	76	3579	0.964 ug/l	97
58) 2-Chloroethyl Vinyl ether	7.465	63	2593	2.756 ug/l	90
59) 2-Hexanone	8.687	43	13150	4.640 ug/l	93
60) Dibromochloromethane	8.816	129	1796	0.870 ug/l	92
61) 1,2-Dibromoethane	8.928	107	2041	0.928 ug/l	96
64) Tetrachloroethene	8.555	164	1528	0.917 ug/l	94
65) Chlorobenzene	9.452	112	4854	0.941 ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.536	131	1717	0.951 ug/l #	61
67) Ethyl Benzene	9.574	91	7509	0.812 ug/l	97
68) m/p-Xylenes	9.697	106	5684	1.641 ug/l	95
69) o-Xylene	10.102	106	2671	0.811 ug/l	93
70) Styrene	10.118	104	3998	0.701 ug/l	96
71) Bromoform	10.295	173	1229	0.807 ug/l #	60
73) Isopropylbenzene	10.487	105	6696	0.951 ug/l	99
74) N-amyl acetate	10.320	43	3064	0.942 ug/l #	90
75) 1,1,2,2-Tetrachloroethane	10.790	83	3693	1.200 ug/l	93
76) 1,2,3-Trichloropropane	10.825	75	3257m	0.954 ug/l	
77) Bromobenzene	10.787	156	1722	0.975 ug/l	90
78) n-propylbenzene	10.909	91	7780	0.854 ug/l	96
79) 2-Chlorotoluene	10.989	91	5040	0.933 ug/l	94
80) 1,3,5-Trimethylbenzene	11.089	105	5249	0.844 ug/l	100
82) 4-Chlorotoluene	11.102	91	5326	0.839 ug/l	100
83) tert-Butylbenzene	11.423	119	5225	0.893 ug/l	96
84) 1,2,4-Trimethylbenzene	11.471	105	4888	0.785 ug/l	97
85) sec-Butylbenzene	11.648	105	6066	0.786 ug/l	98
86) p-Isopropyltoluene	11.799	119	4665	0.715 ug/l	86
87) 1,3-Dichlorobenzene	11.748	146	3330	0.967 ug/l	97
88) 1,4-Dichlorobenzene	11.841	146	3629m	0.991 ug/l	
89) n-Butylbenzene	12.214	91	4360	0.663 ug/l	99
90) Hexachloroethane	12.478	117	1076	1.021 ug/l	87
91) 1,2-Dichlorobenzene	12.217	146	3919	1.123 ug/l	90
92) 1,2-Dibromo-3-Chloropr...	13.008	75	790	1.107 ug/l	93
93) 1,2,4-Trichlorobenzene	13.844	180	1685	0.774 ug/l	96
94) Hexachlorobutadiene	14.024	225	803	0.712 ug/l	91
95) Naphthalene	14.092	128	5676	0.803 ug/l	95
96) 1,2,3-Trichlorobenzene	14.336	180	1765	0.827 ug/l	98

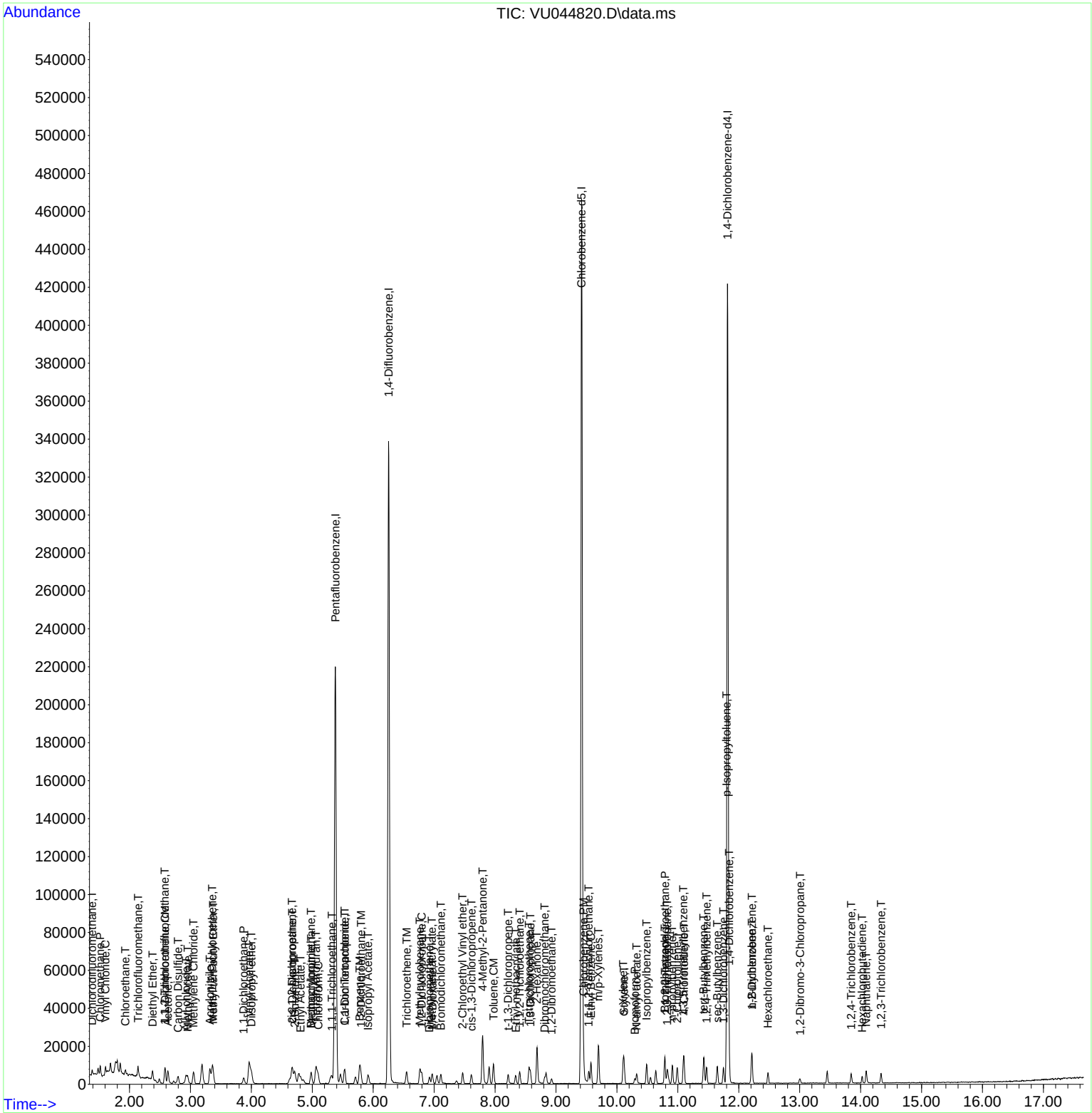
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044820.D
Acq On : 24 Sep 2021 19:19
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 25 00:57:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

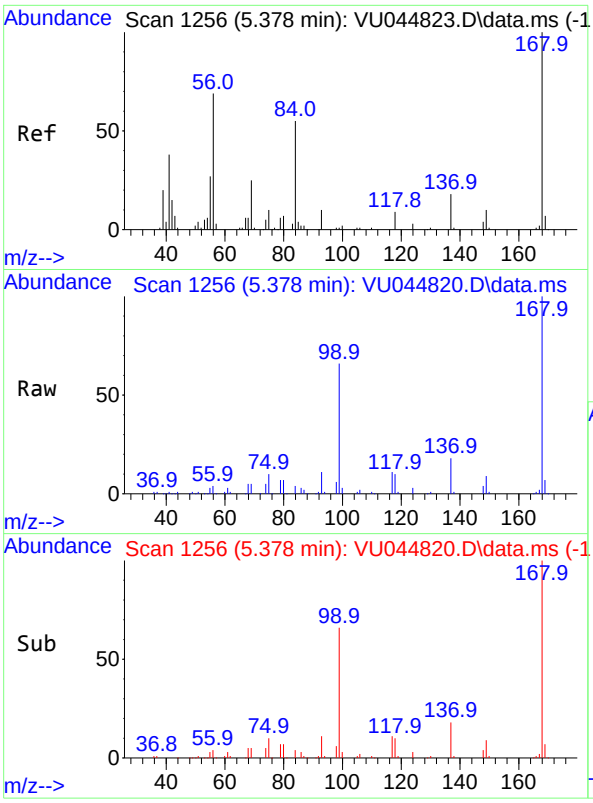
Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

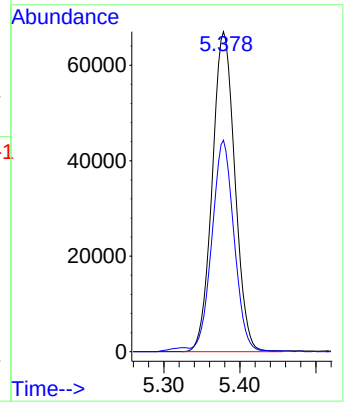
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

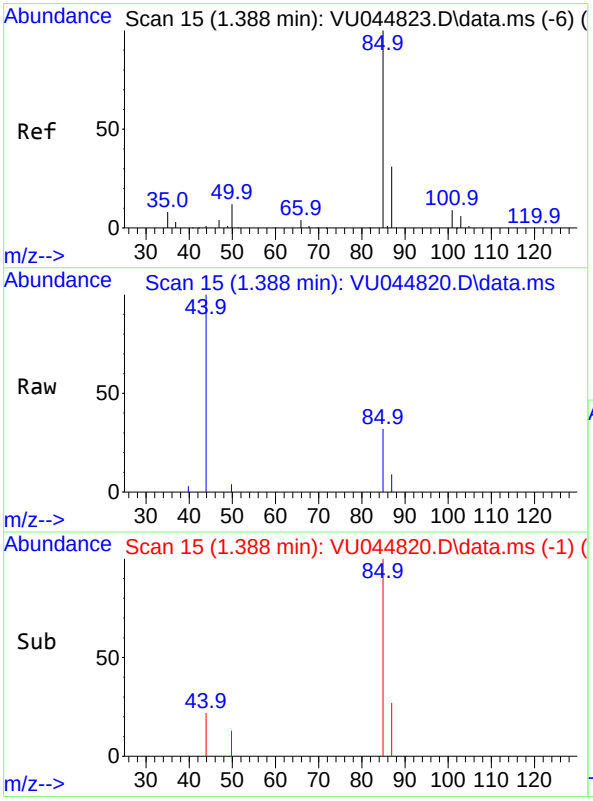


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:168 Resp: 138337

Ion	Ratio	Lower	Upper
168	100		
99	65.8	51.4	77.0

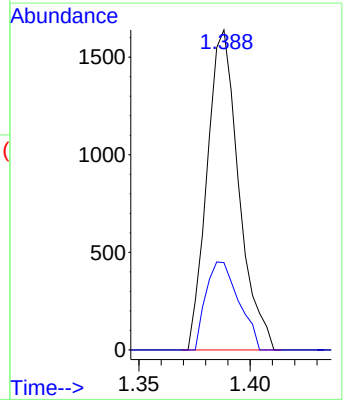




#2
Dichlorodifluoromethane
Concen: 0.843 ug/l
RT: 1.388 min Scan# 15
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

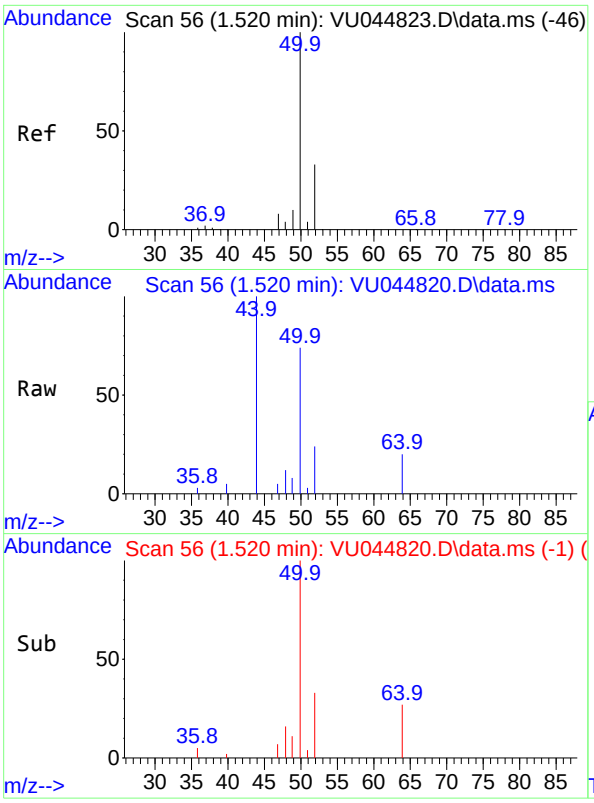
Tgt Ion: 85 Resp: 1620

Ion	Ratio	Lower	Upper
85	100		
87	27.3	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

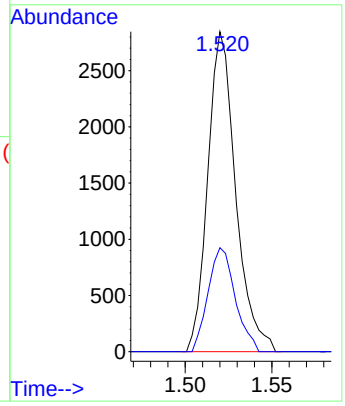
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

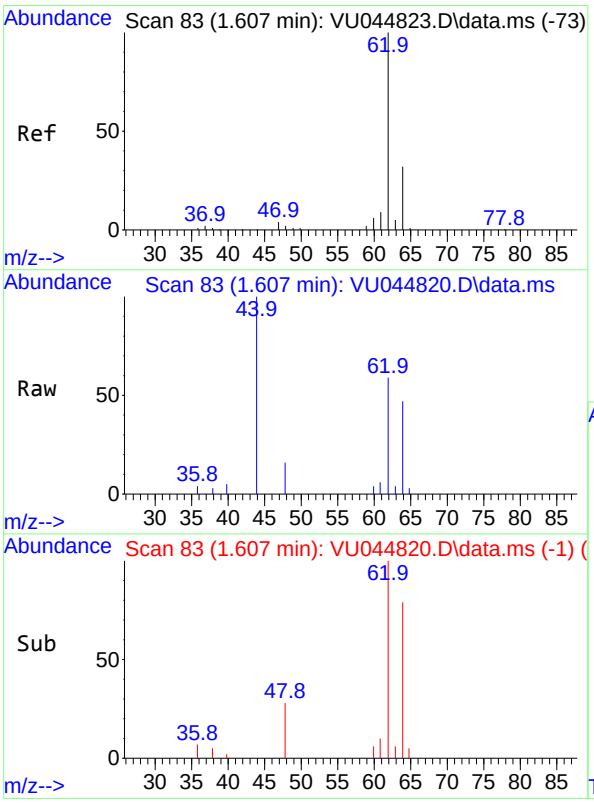


#3
Chloromethane
Concen: 1.224 ug/l
RT: 1.520 min Scan# 56
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 50 Resp: 3183

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.3	39.5

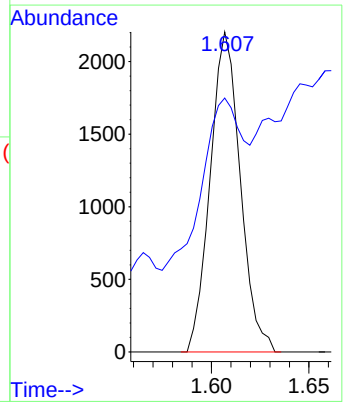




#4
Vinyl Chloride
Concen: 1.003 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 62 Resp: 2361

Ion	Ratio	Lower	Upper
62	100		
64	47.1	25.6	38.4#



Instrument :
MSVOA_U
ClientSampleId :
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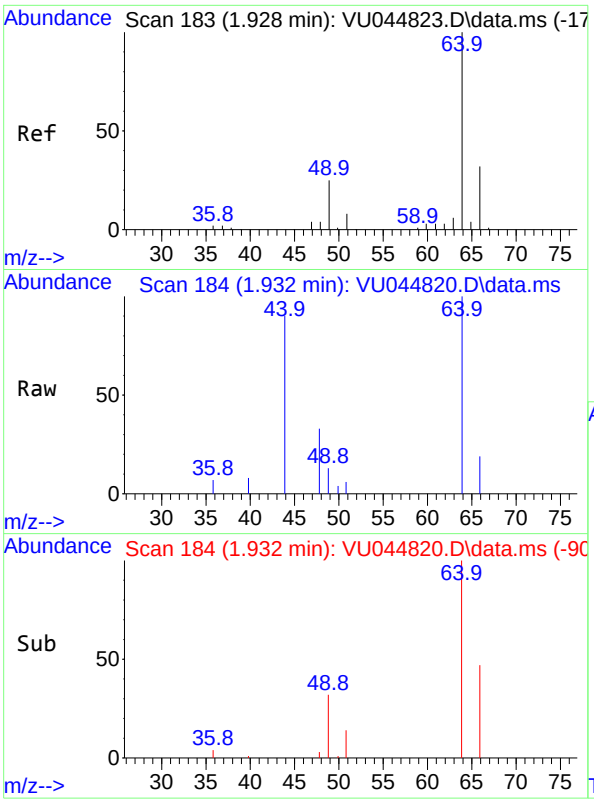
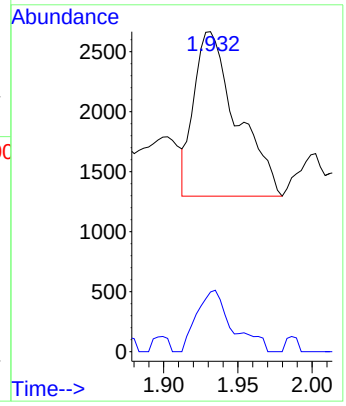
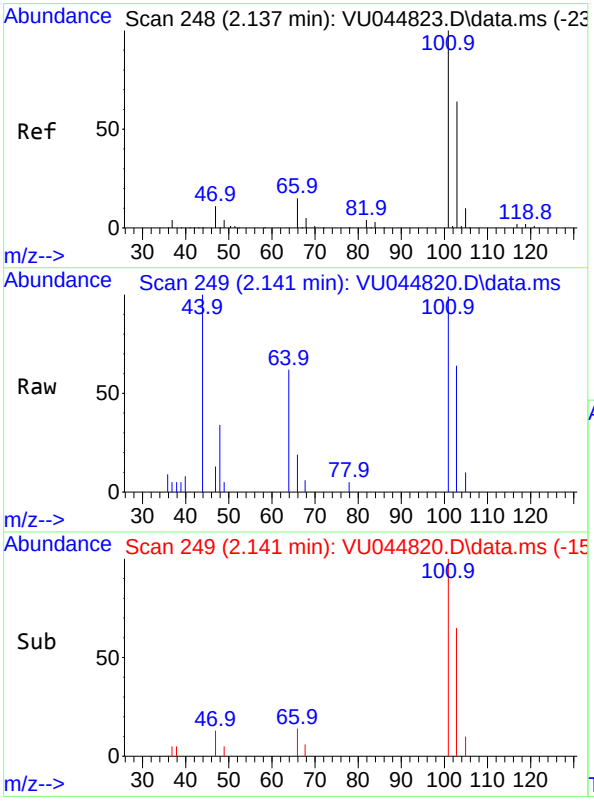


#6
Chloroethane
Concen: 1.824 ug/l
RT: 1.932 min Scan# 184
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 64 Resp: 2764

Ion	Ratio	Lower	Upper
64	100		
66	36.3	25.8	38.8

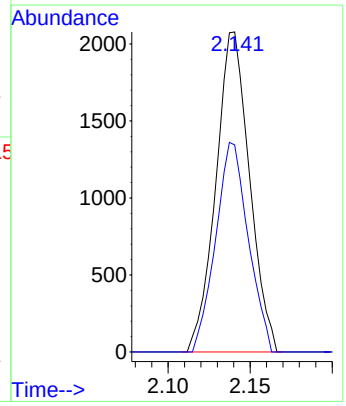




#7
Trichlorofluoromethane
Concen: 1.044 ug/l
RT: 2.141 min Scan# 249
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:101 Resp: 2963

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.2	76.8



Instrument :
MSVOA_U
ClientSampleId :
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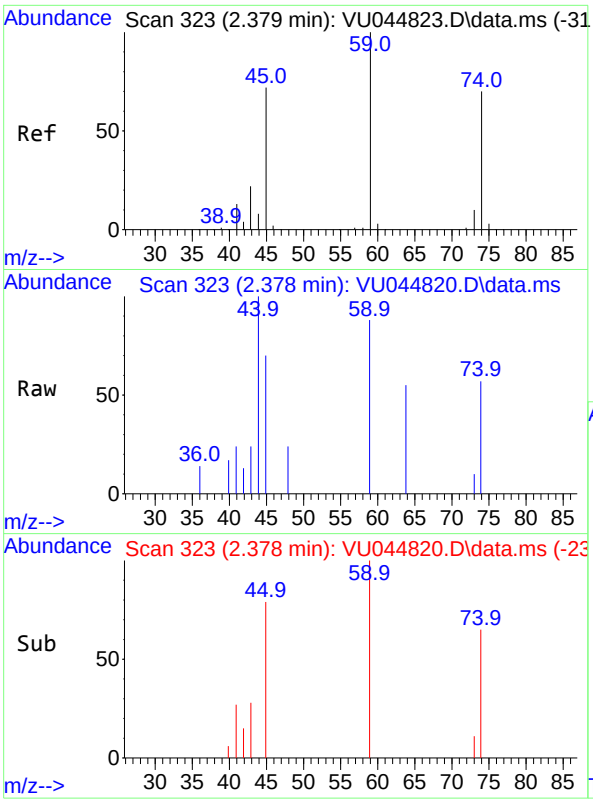
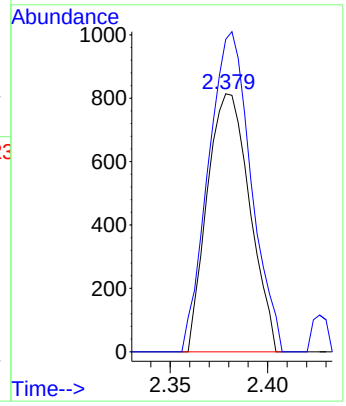
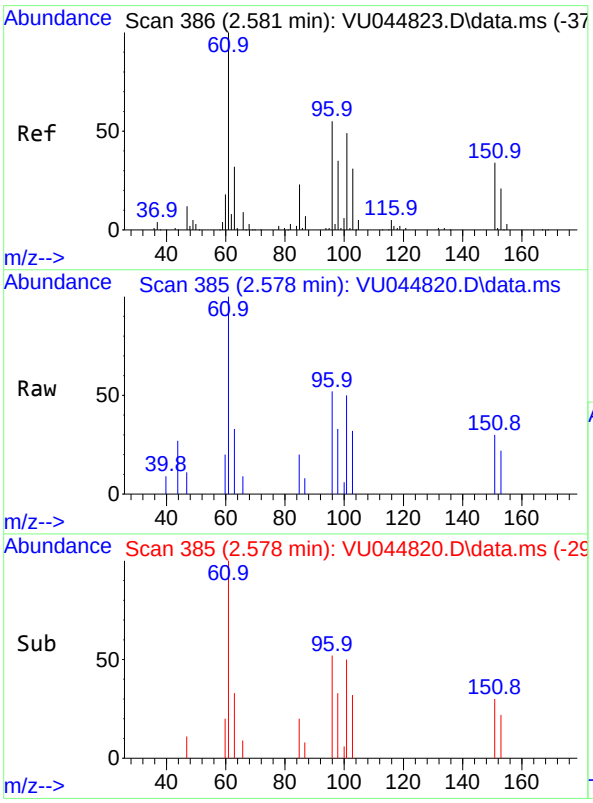


#8
Diethyl Ether
Concen: 1.038 ug/l
RT: 2.378 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 74 Resp: 1232

Ion	Ratio	Lower	Upper
74	100		
45	125.0	52.2	156.6

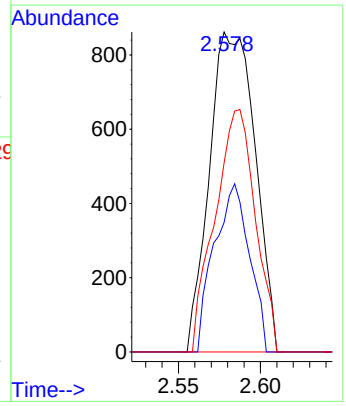




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.969 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:101 Resp: 1669

Ion	Ratio	Lower	Upper
101	100		
85	40.4	37.2	55.8
151	67.1	55.8	83.8



Instrument :
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ClientSampleId :
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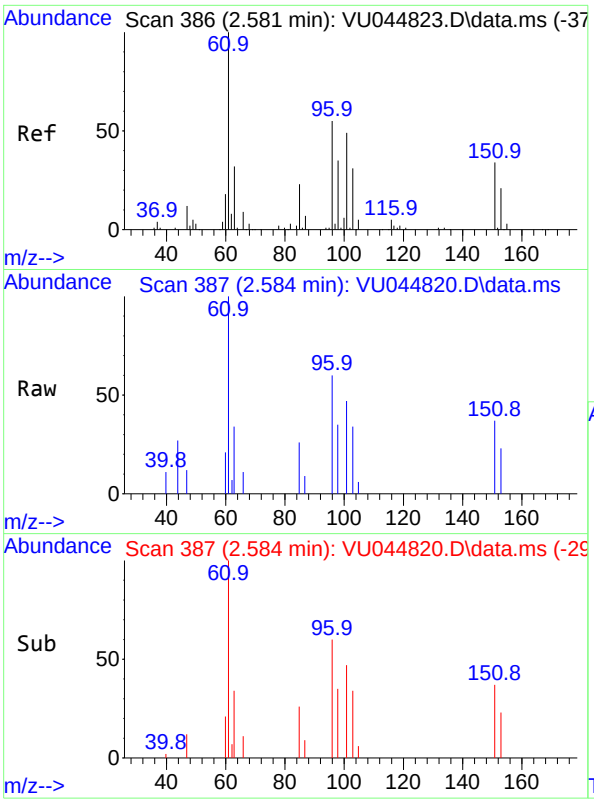
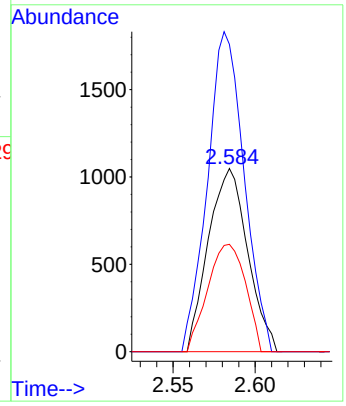
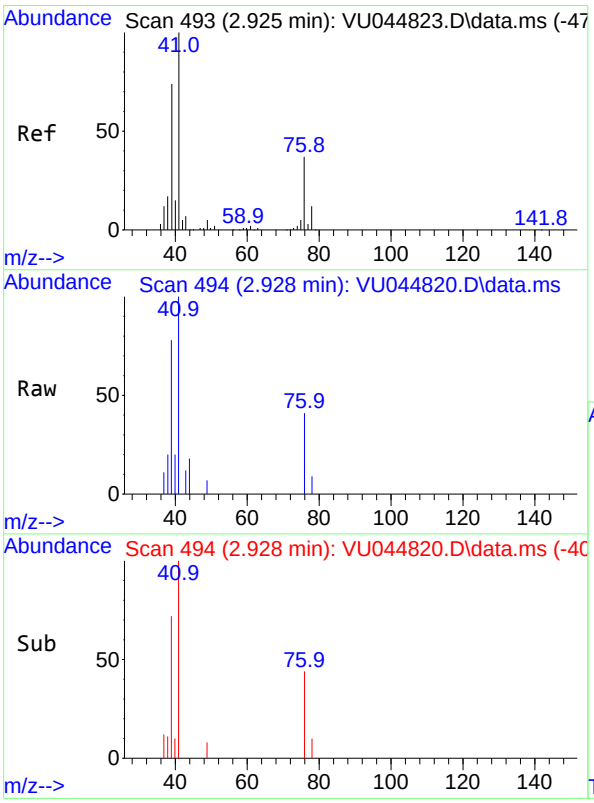


#12
1,1-Dichloroethene
Concen: 1.021 ug/l
RT: 2.584 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 96 Resp: 1747

Ion	Ratio	Lower	Upper
96	100		
61	167.8	145.4	218.0
98	58.6	50.9	76.3

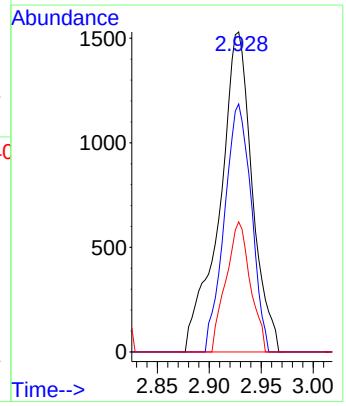




#14
Allyl chloride
Concen: 1.041 ug/l
RT: 2.928 min Scan# 494
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 41 Resp: 3348

Ion	Ratio	Lower	Upper
41	100		
39	63.8	53.0	79.6
76	30.2	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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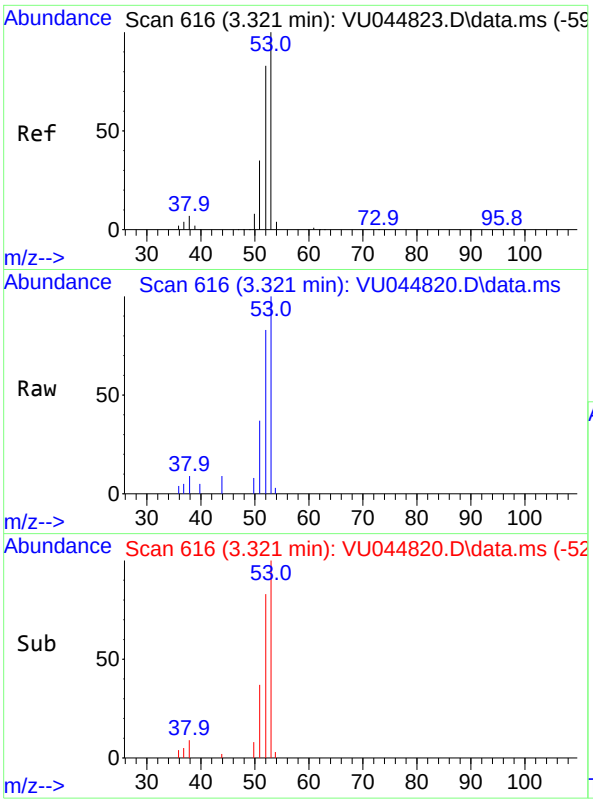
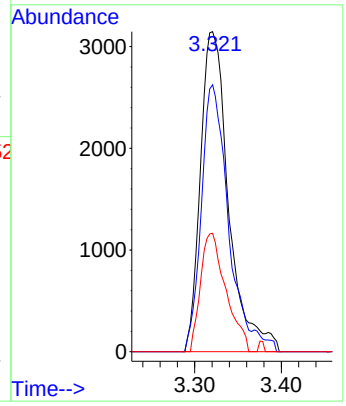
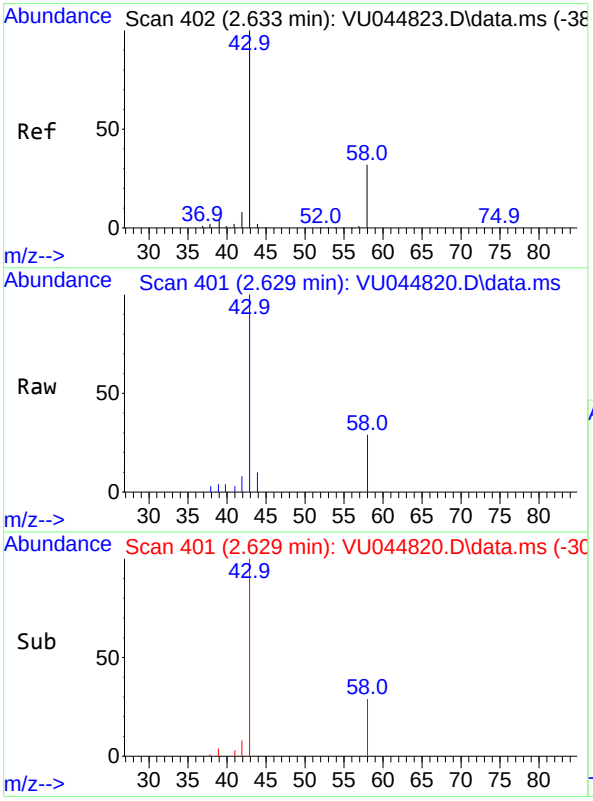


#15
Acrylonitrile
Concen: 5.602 ug/l
RT: 3.321 min Scan# 616
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 53 Resp: 7127

Ion	Ratio	Lower	Upper
53	100		
52	80.7	66.0	99.0
51	33.3	28.6	42.8

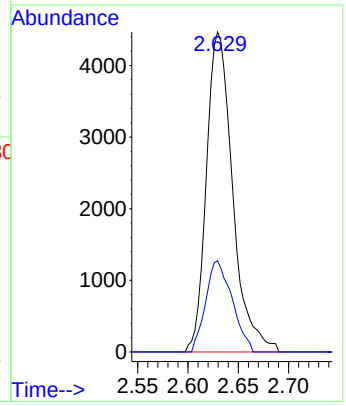




#16
Acetone
Concen: 6.125 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 8107

Ion	Ratio	Lower	Upper
43	100		
58	28.5	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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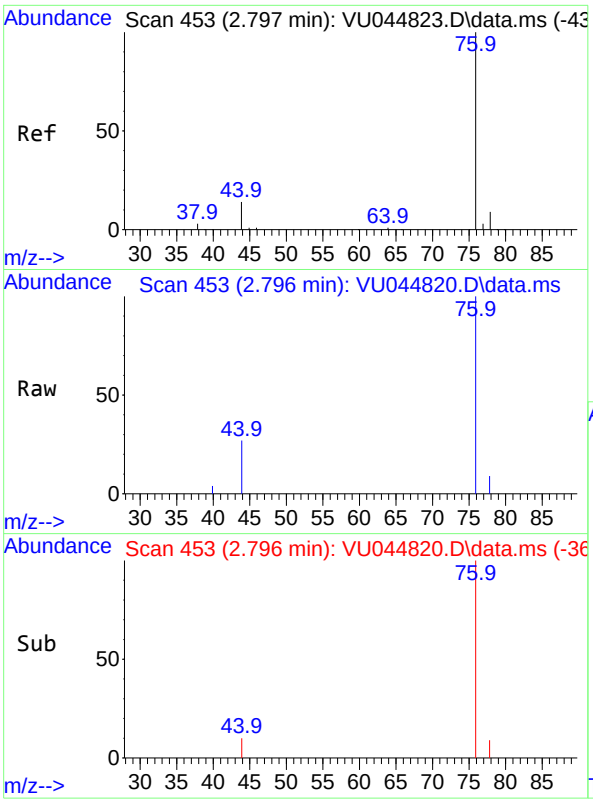
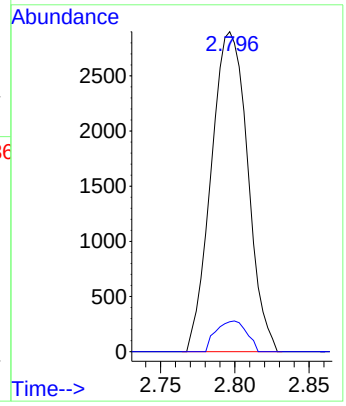
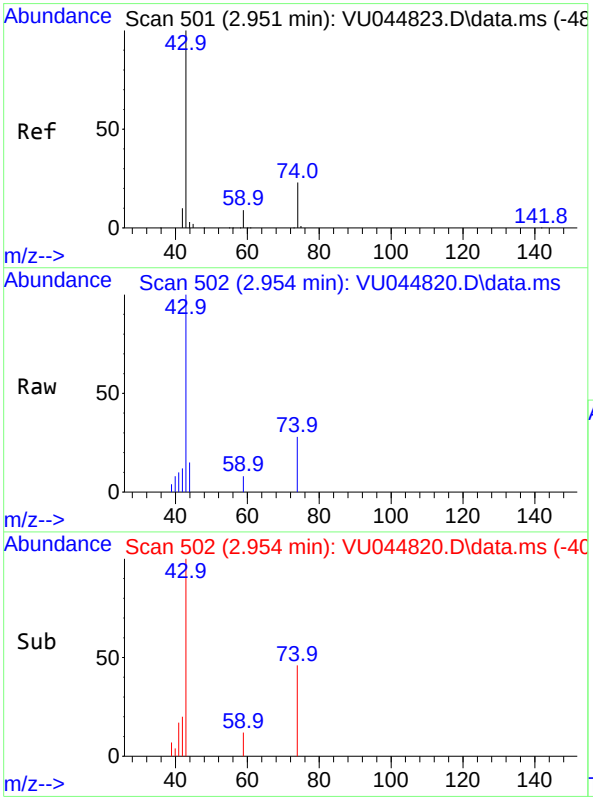


#17
Carbon Disulfide
Concen: 0.920 ug/l
RT: 2.796 min Scan# 453
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 76 Resp: 4960

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0

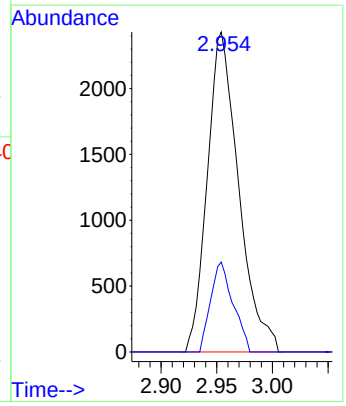




#18
Methyl Acetate
Concen: 1.523 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 4750

Ion	Ratio	Lower	Upper
43	100		
74	20.1	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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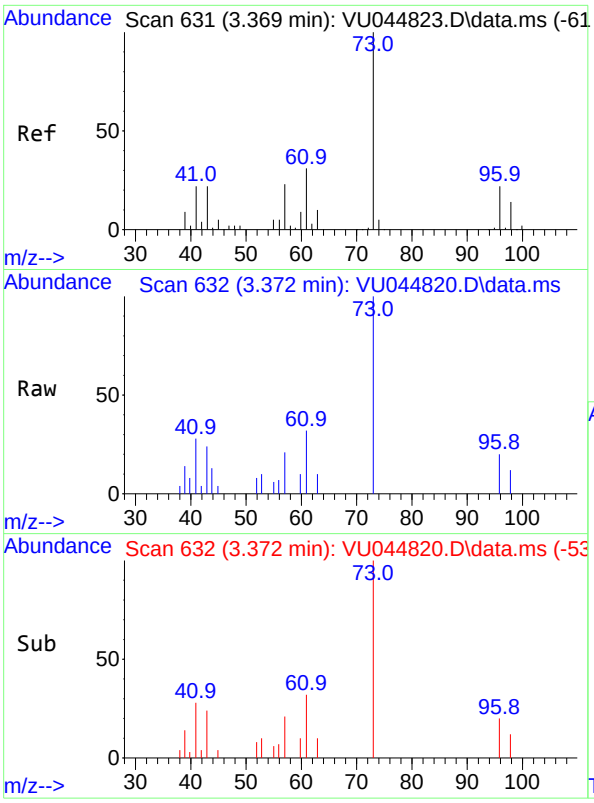
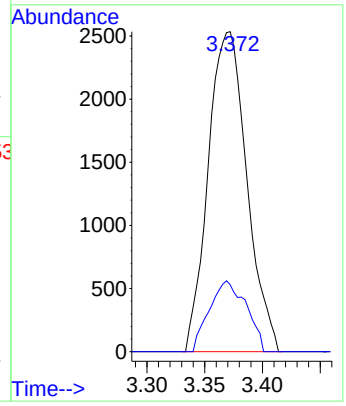
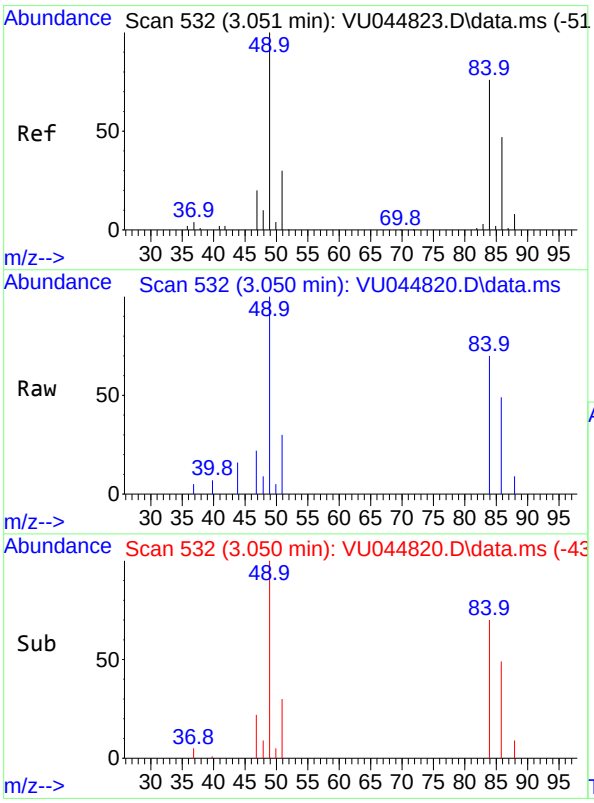


#19
Methyl tert-butyl Ether
Concen: 1.091 ug/l
RT: 3.372 min Scan# 632
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 73 Resp: 5893

Ion	Ratio	Lower	Upper
73	100		
57	20.9	18.2	27.2

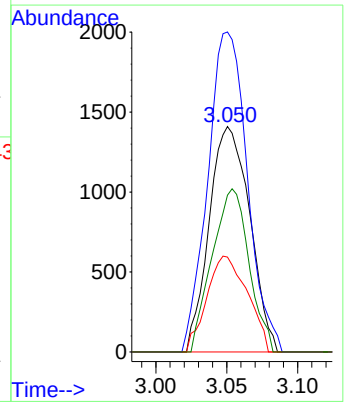




#20
Methylene Chloride
Concen: 1.250 ug/l
RT: 3.050 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 84 Resp: 2808

Ion	Ratio	Lower	Upper
84	100		
49	141.9	104.9	157.3
51	42.1	31.8	47.8
86	69.6	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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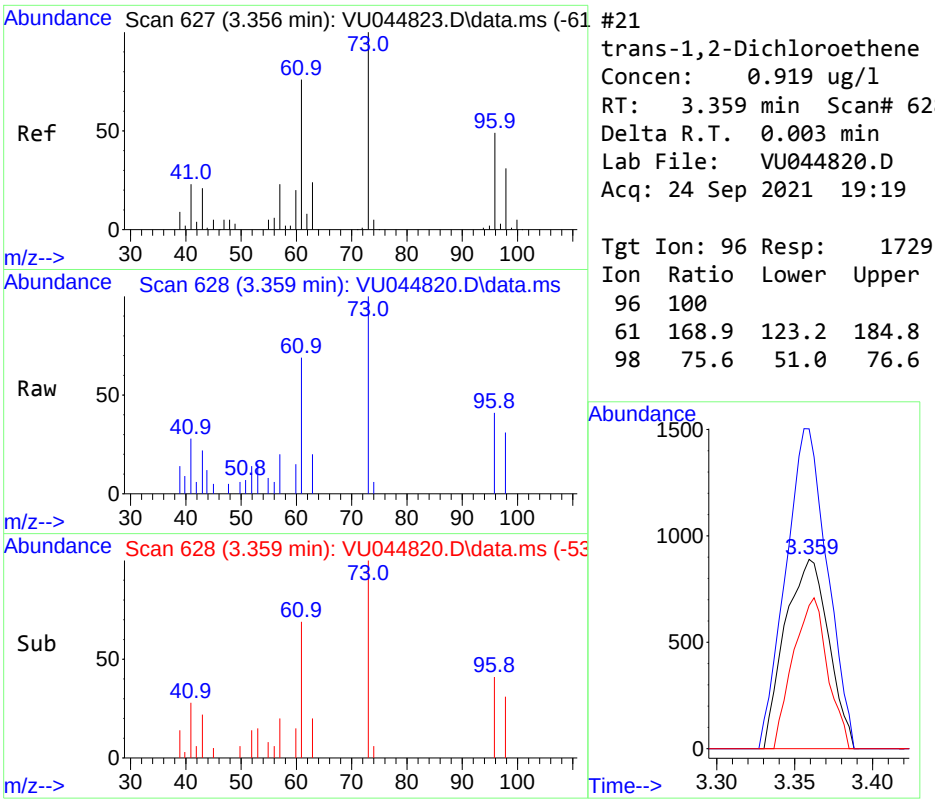
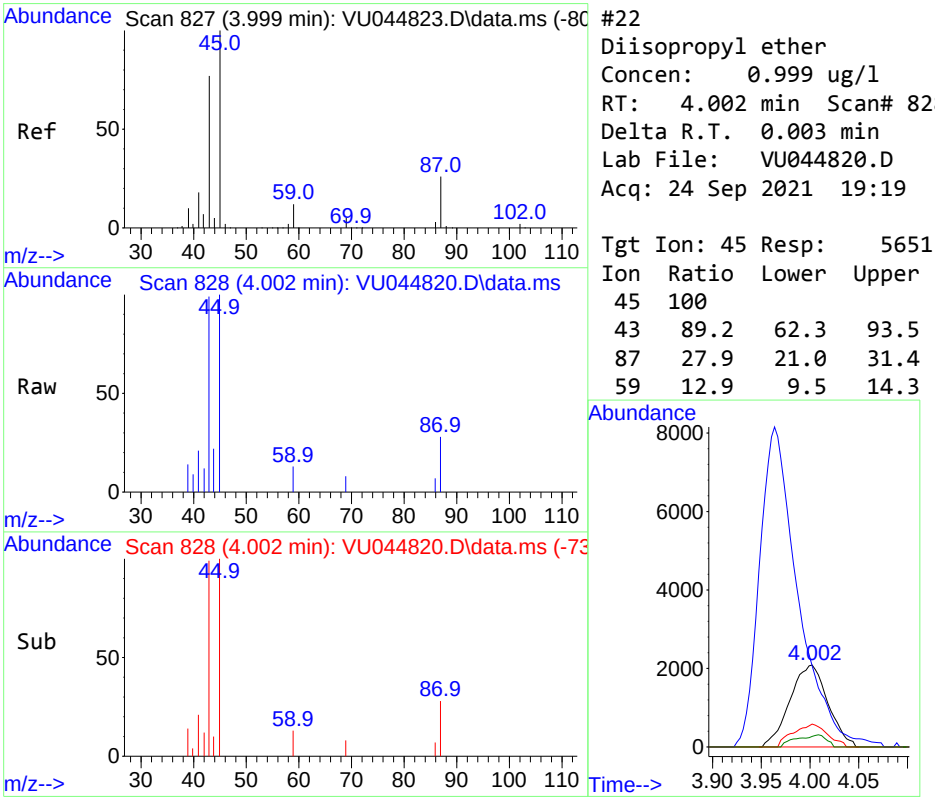


#21
trans-1,2-Dichloroethene
Concen: 0.919 ug/l
RT: 3.359 min Scan# 628
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 96 Resp: 1729

Ion	Ratio	Lower	Upper
96	100		
61	168.9	123.2	184.8
98	75.6	51.0	76.6



#22
Diisopropyl ether
Concen: 0.999 ug/l
RT: 4.002 min Scan# 828
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 45 Resp: 5651

Ion	Ratio	Lower	Upper
45	100		
43	89.2	62.3	93.5
87	27.9	21.0	31.4
59	12.9	9.5	14.3

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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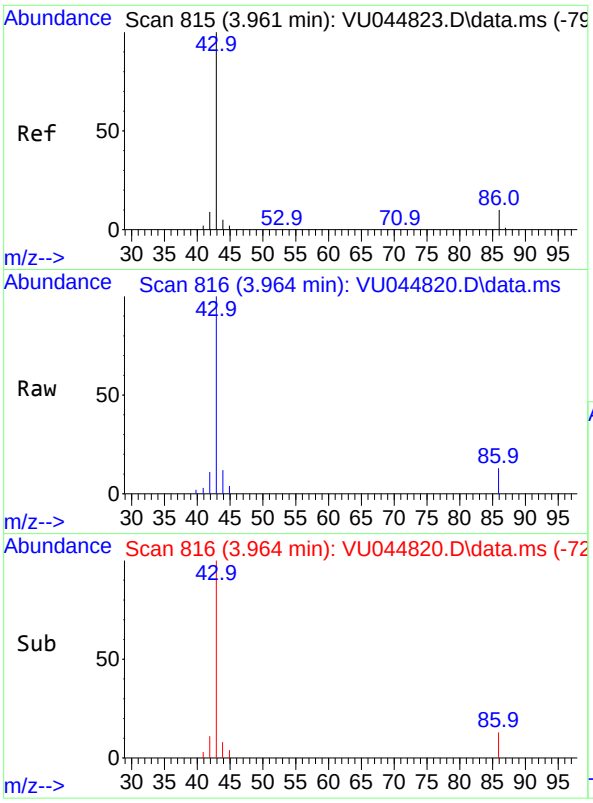
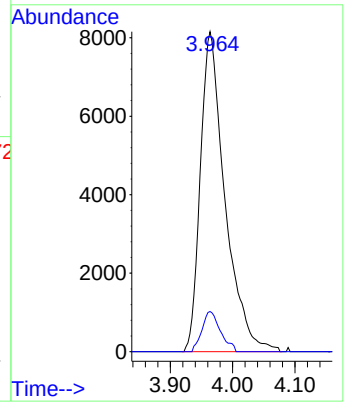
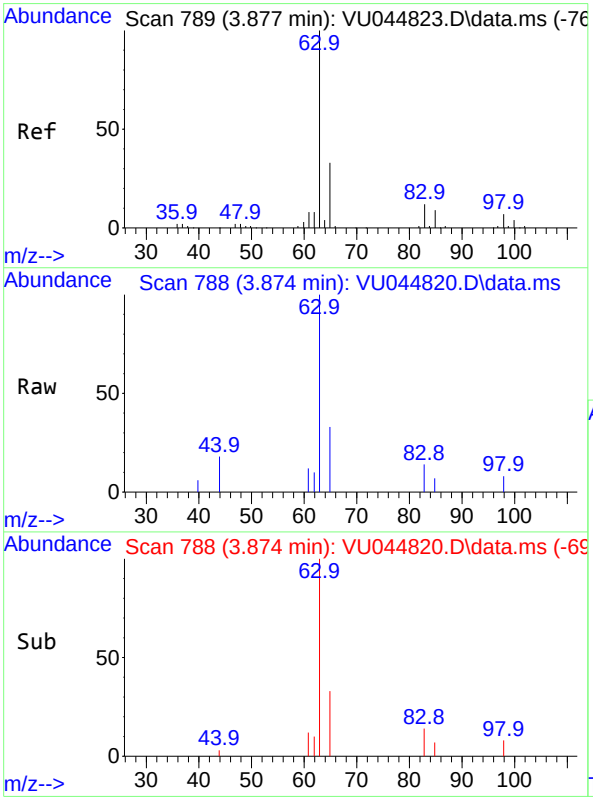


#23
Vinyl Acetate
Concen: 4.278 ug/l
RT: 3.964 min Scan# 816
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 22375

Ion	Ratio	Lower	Upper
43	100		
86	12.5	8.2	12.4#

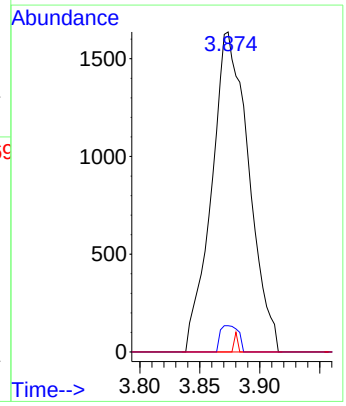




#24
1,1-Dichloroethane
Concen: 0.959 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 63 Resp: 3535

Ion	Ratio	Lower	Upper
63	100		
98	8.2	3.5	10.4
100	0.0	2.1	6.3#



Instrument :
MSVOA_U
ClientSampleId :
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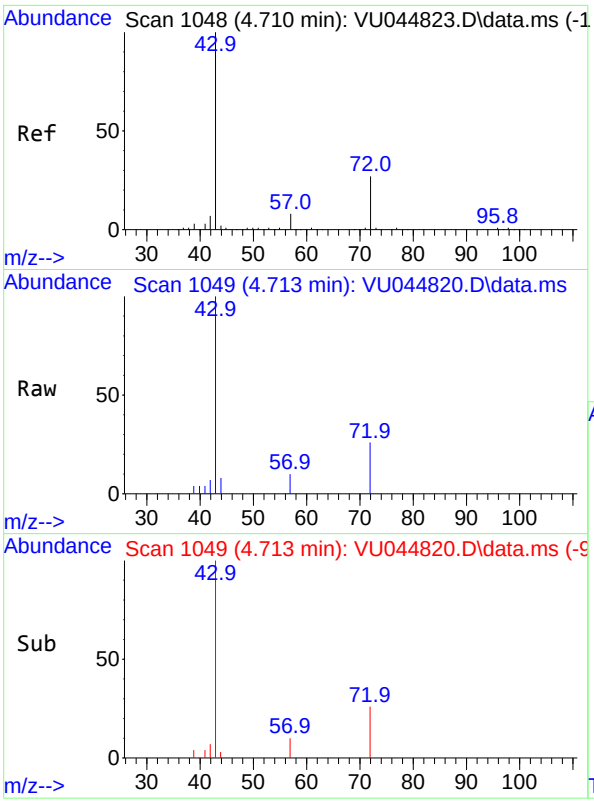
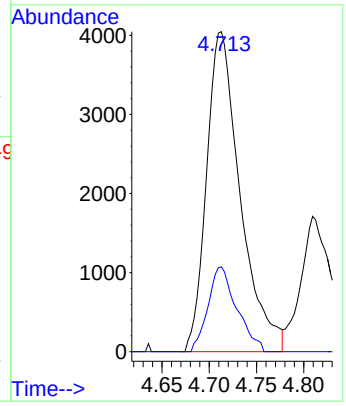
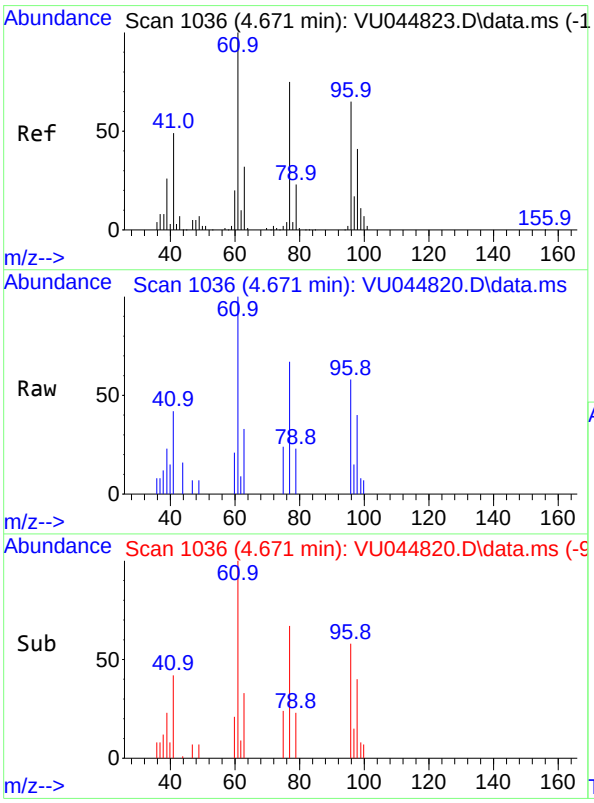


#25
2-Butanone
Concen: 5.296 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 10023

Ion	Ratio	Lower	Upper
43	100		
72	26.5	21.3	31.9

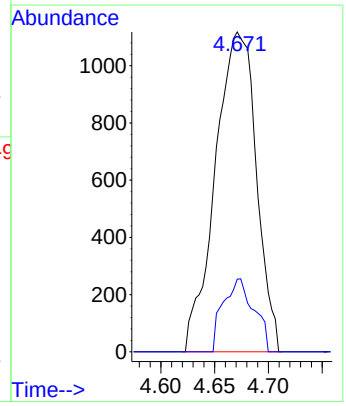




#26
2,2-Dichloropropane
Concen: 1.030 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 77 Resp: 2968

Ion	Ratio	Lower	Upper
77	100		
97	17.0	10.8	32.4



Instrument :
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ClientSampleId :
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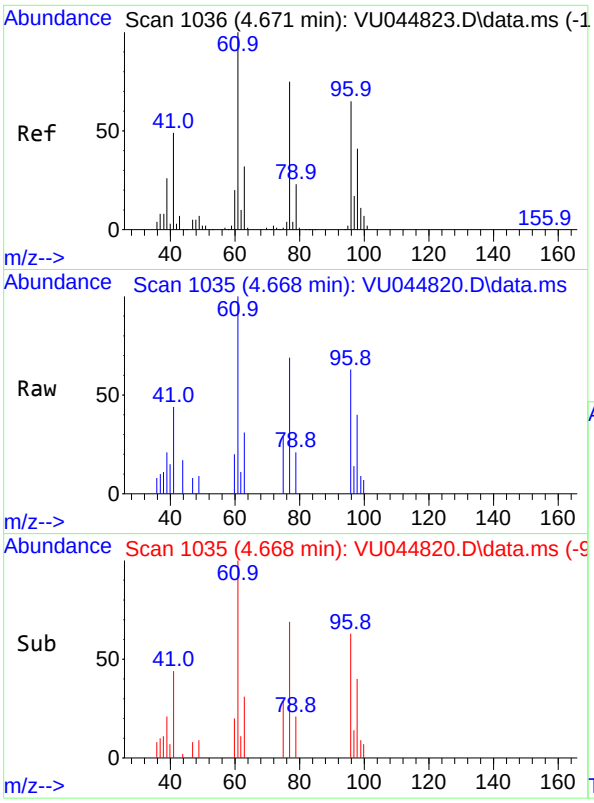
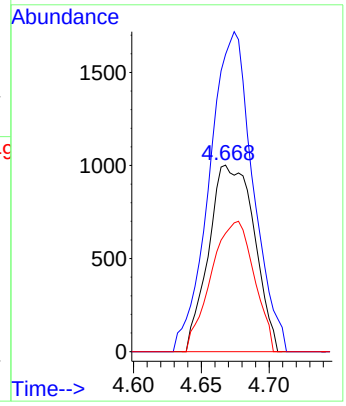
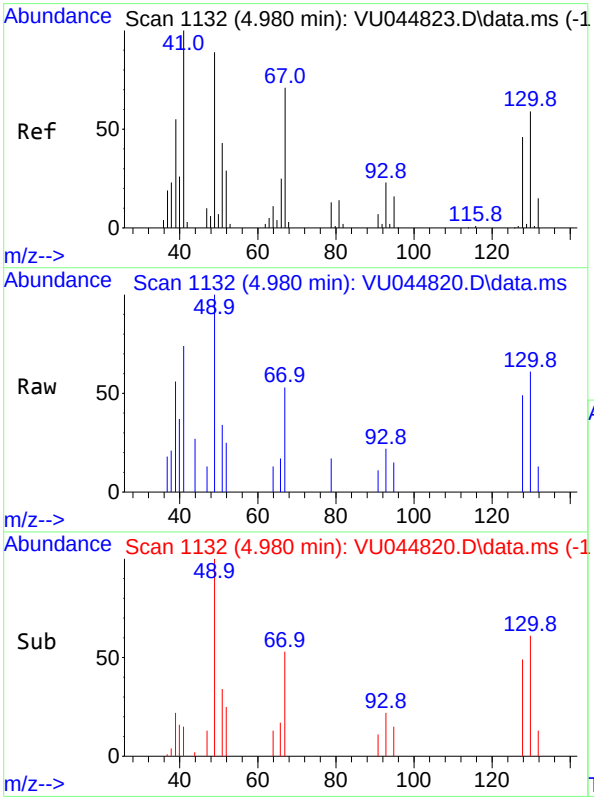


#27
cis-1,2-Dichloroethene
Concen: 1.100 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 96 Resp: 2335

Ion	Ratio	Lower	Upper
96	100		
61	164.3	0.0	313.4
98	66.0	0.0	127.0

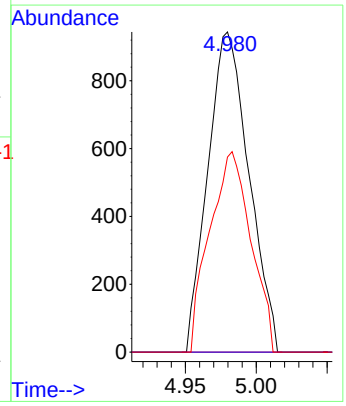




#28
Bromochloromethane
Concen: 1.086 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 49 Resp: 1905

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	62.8	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
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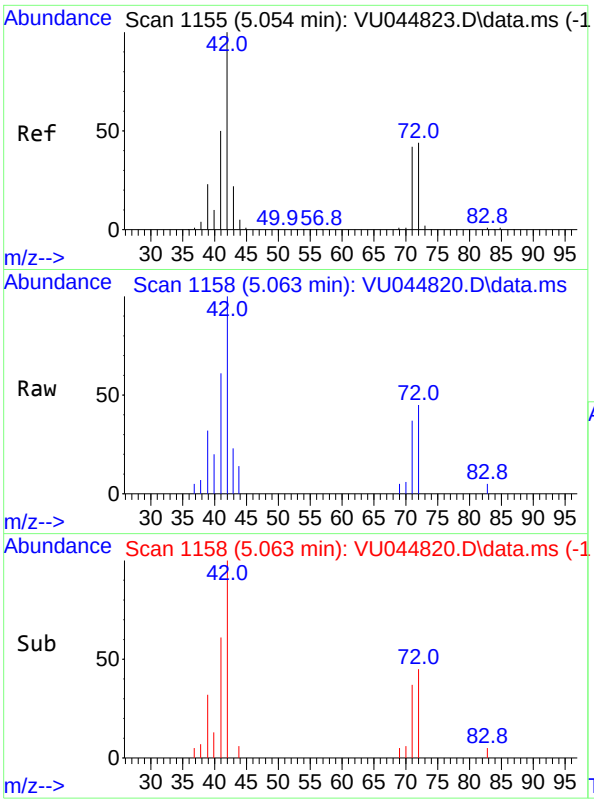
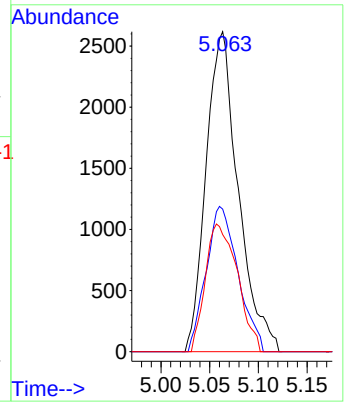
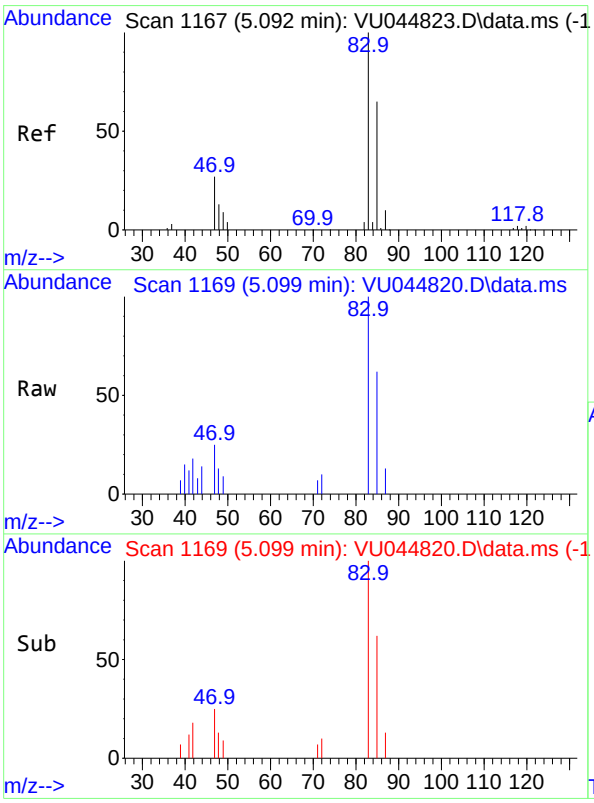


#29
Tetrahydrofuran
Concen: 5.689 ug/l
RT: 5.063 min Scan# 1158
Delta R.T. 0.010 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 42 Resp: 6005

Ion	Ratio	Lower	Upper
42	100		
72	45.1	36.2	54.4
71	39.7	34.1	51.1

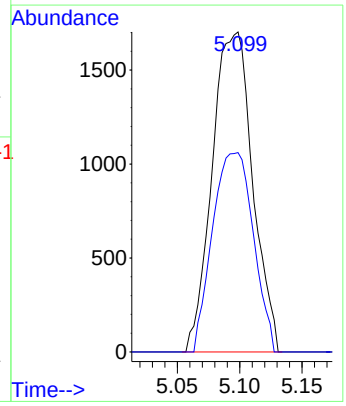




#30
Chloroform
Concen: 1.068 ug/l
RT: 5.099 min Scan# 1169
Delta R.T. 0.006 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 83 Resp: 3847

Ion	Ratio	Lower	Upper
83	100		
85	62.3	52.1	78.1



Instrument :
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ClientSampleId :
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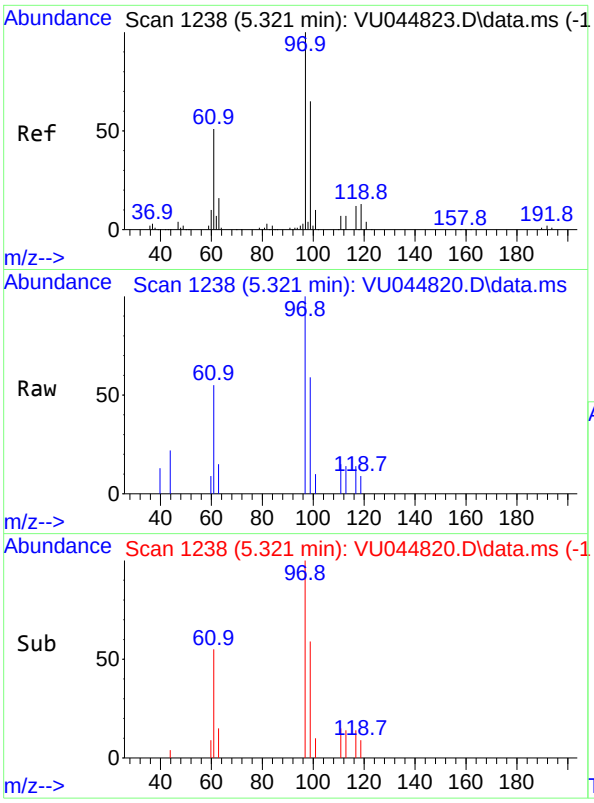
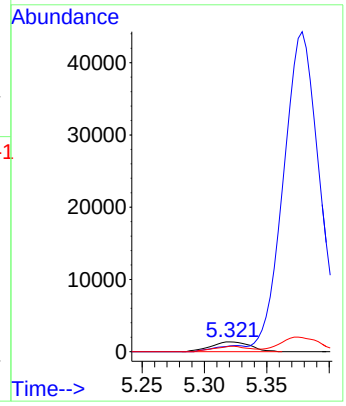
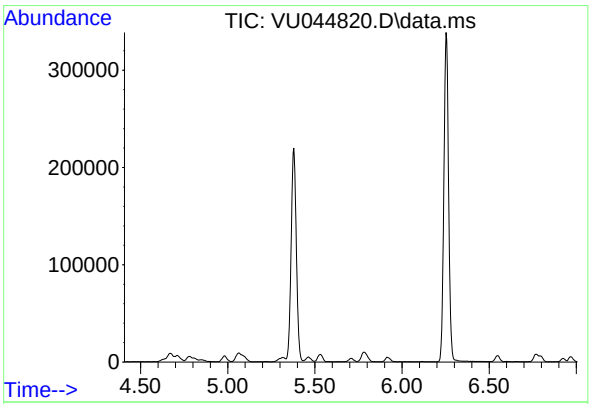


#32
1,1,1-Trichloroethane
Concen: 1.005 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 97 Resp: 3002

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.9	76.3#
61	48.6	40.7	61.1



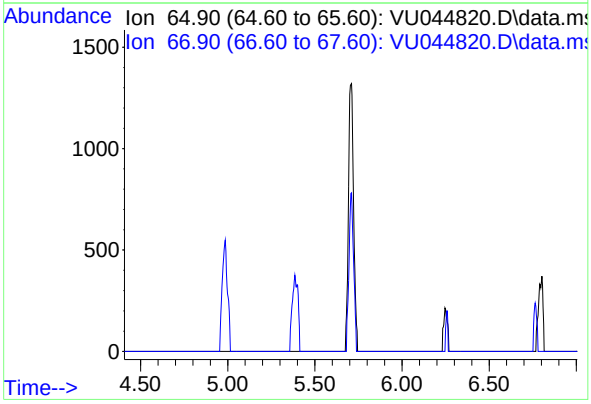


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.71 min

Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.4



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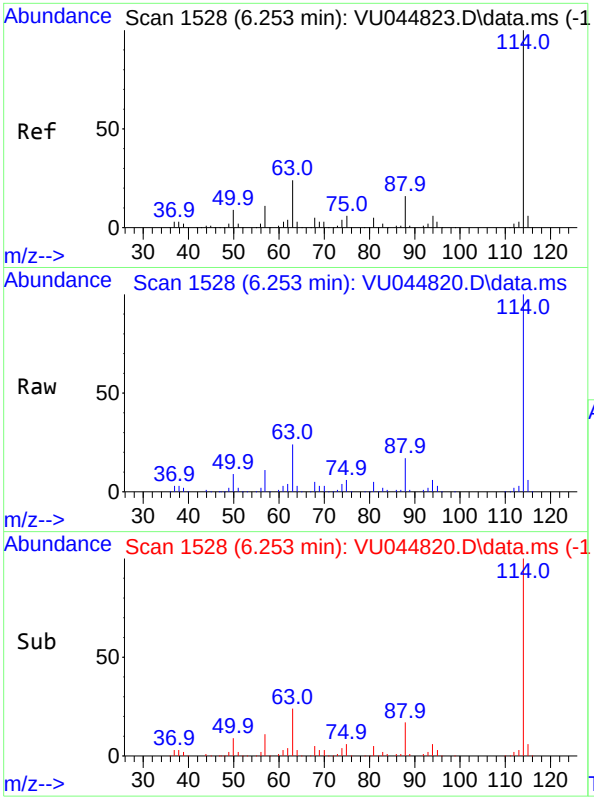
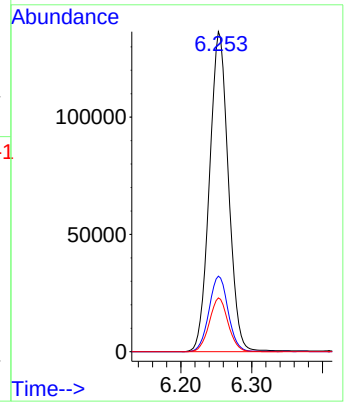
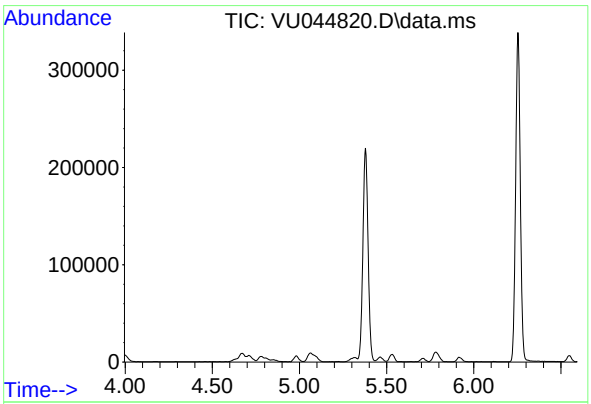


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:114 Resp: 253014

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	47.8
88	16.8	0.0	32.8



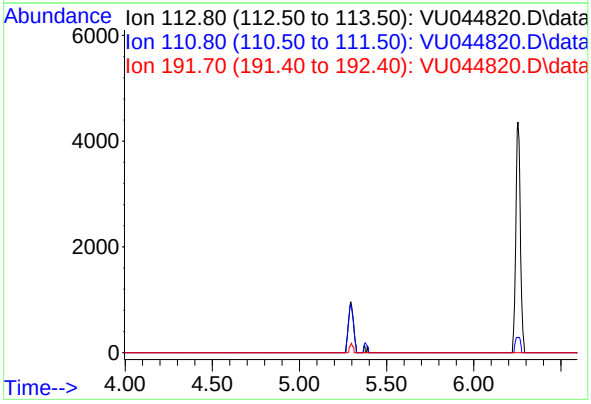


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.29 min

Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	105.1
192	18.5



Instrument :
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ClientSampleId :
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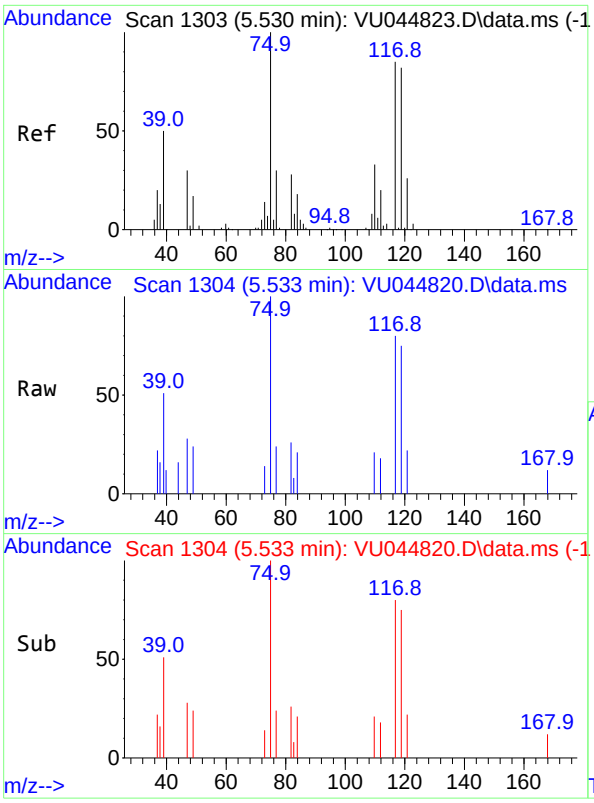
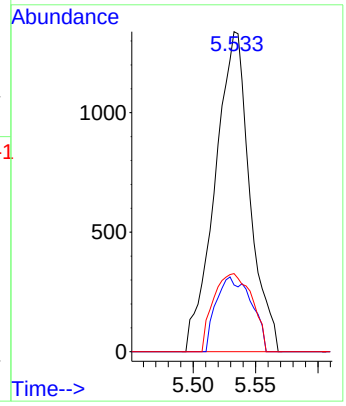
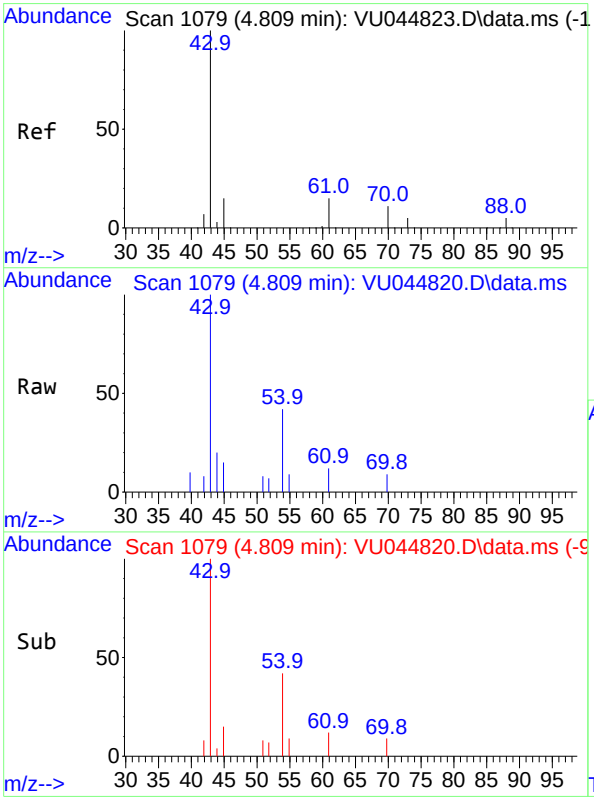


#36
1,1-Dichloropropene
Concen: 0.921 ug/l
RT: 5.533 min Scan# 1304
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 75 Resp: 2595

Ion	Ratio	Lower	Upper
75	100		
110	23.6	16.3	48.9
77	27.2	25.0	37.4

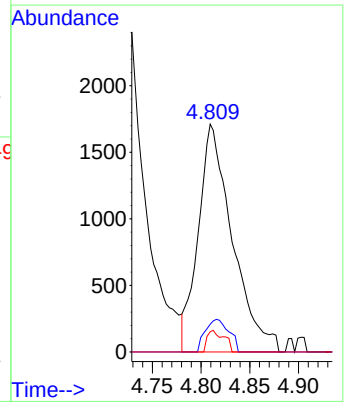




#37
Ethyl Acetate
Concen: 1.198 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 4170

Ion	Ratio	Lower	Upper
43	100		
61	9.9	10.9	16.3#
70	4.6	8.2	12.4#



Instrument :
MSVOA_U
ClientSampleId :
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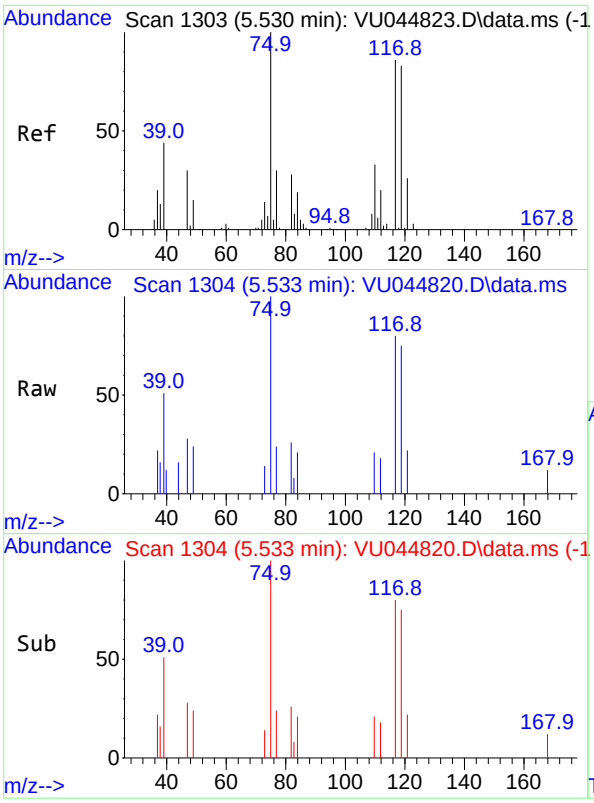
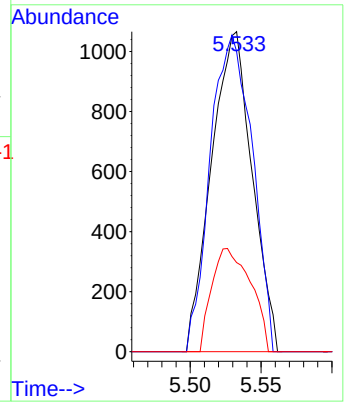
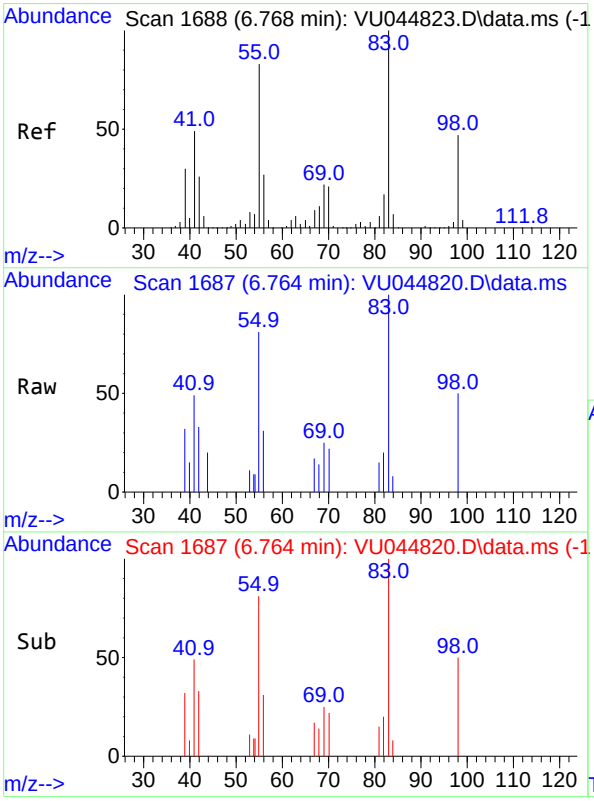


#38
Carbon Tetrachloride
Concen: 0.837 ug/l
RT: 5.533 min Scan# 1304
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:117 Resp: 2129

Ion	Ratio	Lower	Upper
117	100		
119	93.8	77.4	116.2
121	27.9	24.5	36.7

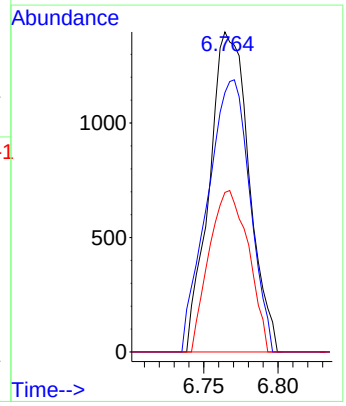




#39
Methylcyclohexane
Concen: 0.853 ug/l
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 83 Resp: 2599

Ion	Ratio	Lower	Upper
83	100		
55	81.0	66.2	99.4
98	49.9	37.5	56.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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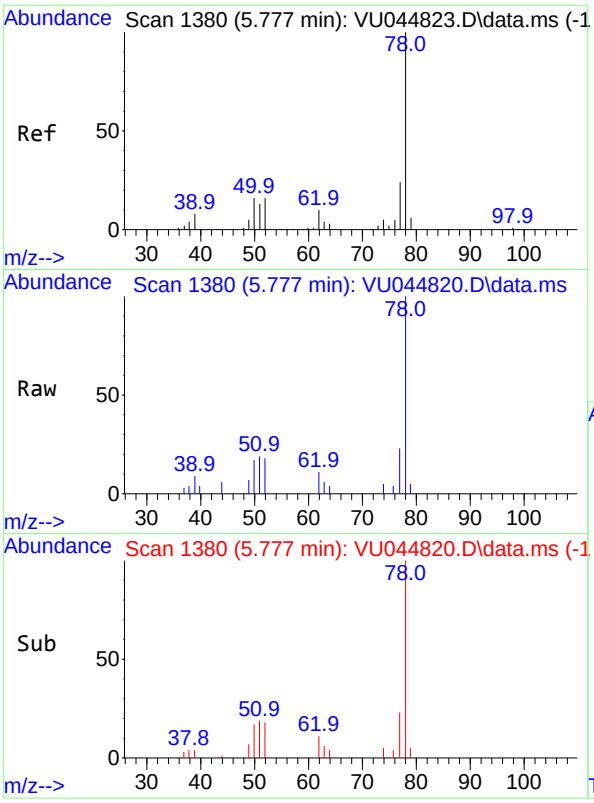
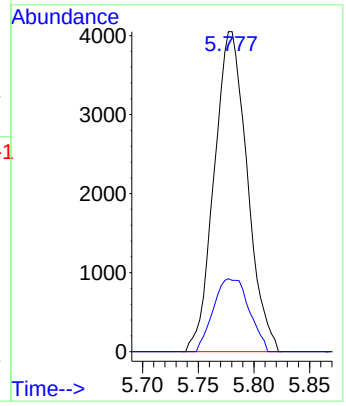
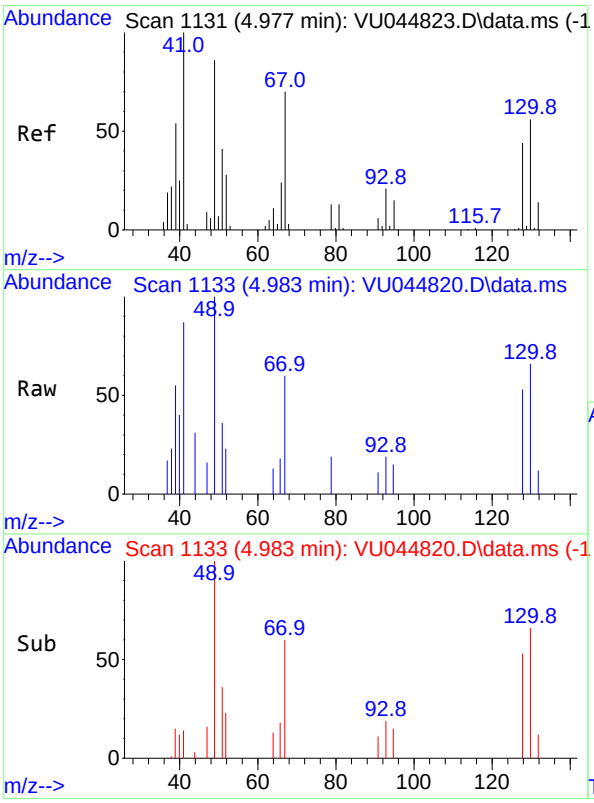


#40
Benzene
Concen: 0.999 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 78 Resp: 8350

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.1	28.7

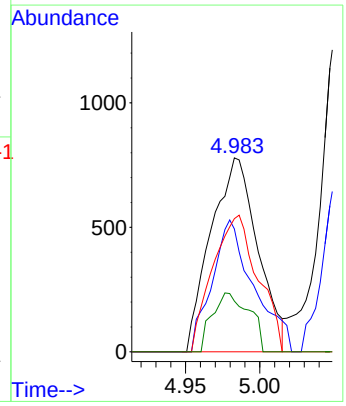




#41
Methacrylonitrile
Concen: 0.964 ug/l
RT: 4.983 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 41 Resp: 1712

Ion	Ratio	Lower	Upper
41	100		
39	60.7	44.4	66.6
67	67.9	58.1	87.1
52	23.8	23.8	35.8#



Instrument :
MSVOA_U
ClientSampleId :
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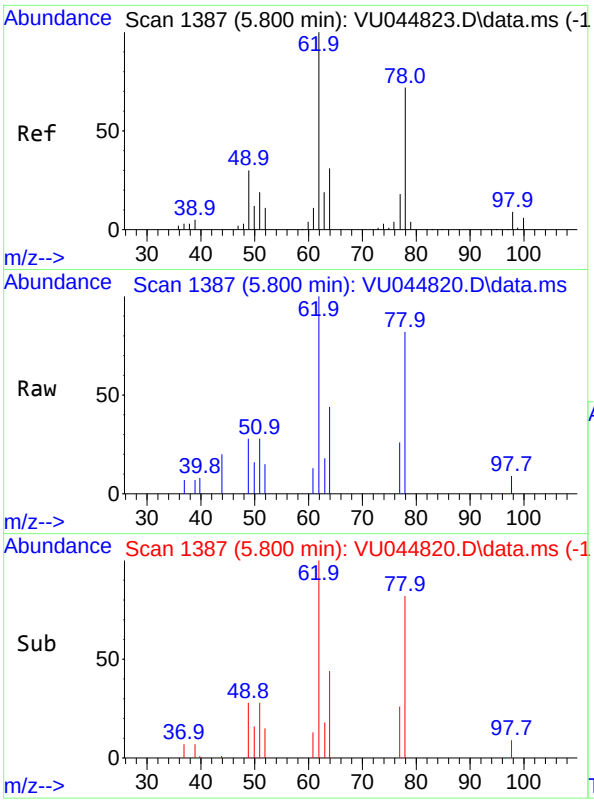
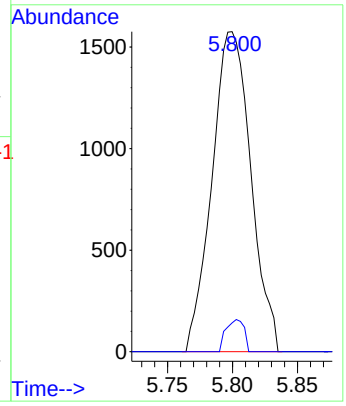
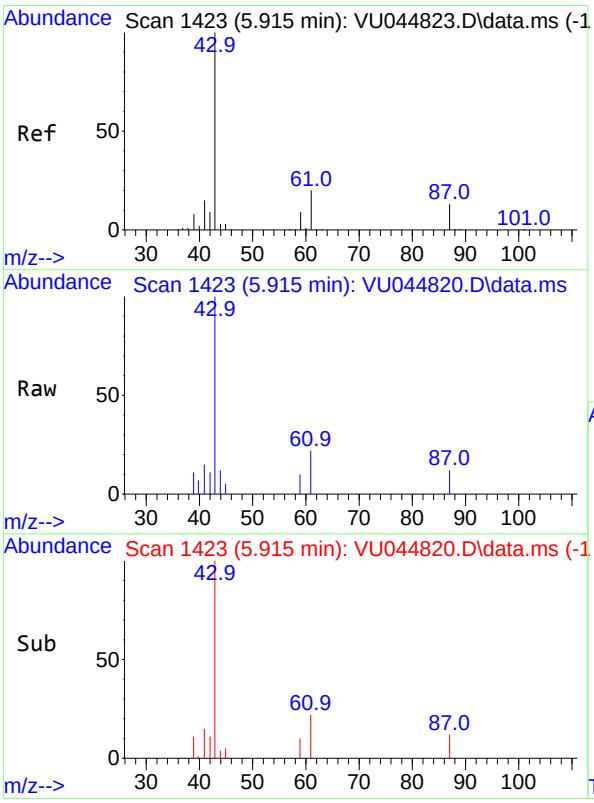


#42
1,2-Dichloroethane
Concen: 1.092 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 62 Resp: 3283

Ion	Ratio	Lower	Upper
62	100		
98	4.7	0.0	17.8

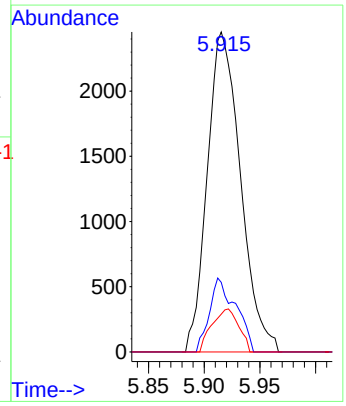




#43
Isopropyl Acetate
Concen: 1.036 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 5093

Ion	Ratio	Lower	Upper
43	100		
61	18.3	16.1	24.1
87	10.8	10.3	15.5



Instrument :
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ClientSampleId :
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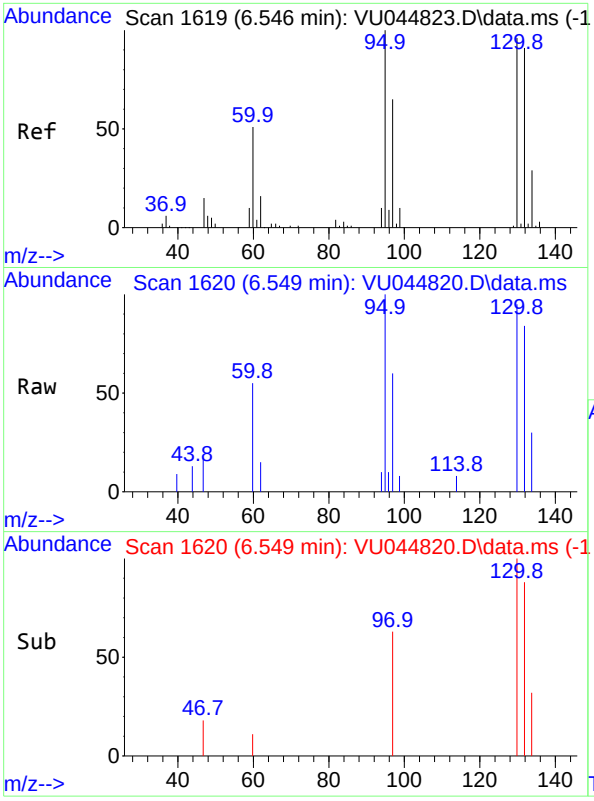
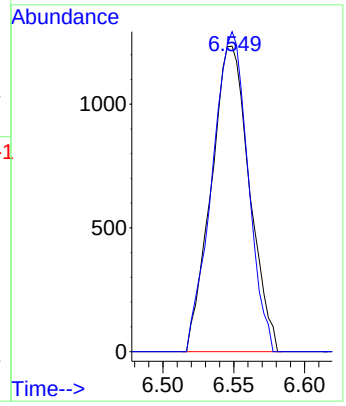
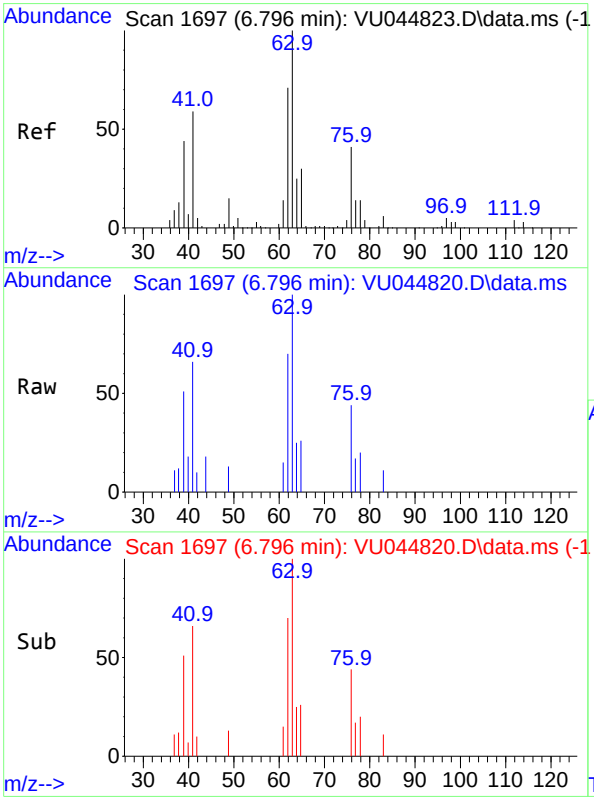


#44
Trichloroethene
Concen: 1.200 ug/l
RT: 6.549 min Scan# 1620
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:130 Resp: 2316

Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	209.0

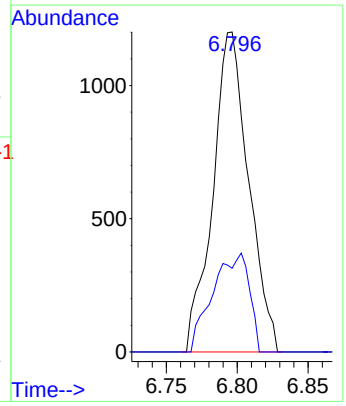




#45
1,2-Dichloropropane
Concen: 0.922 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 63 Resp: 2115

Ion	Ratio	Lower	Upper
63	100		
65	26.1	23.9	35.9



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ClientSampleId :
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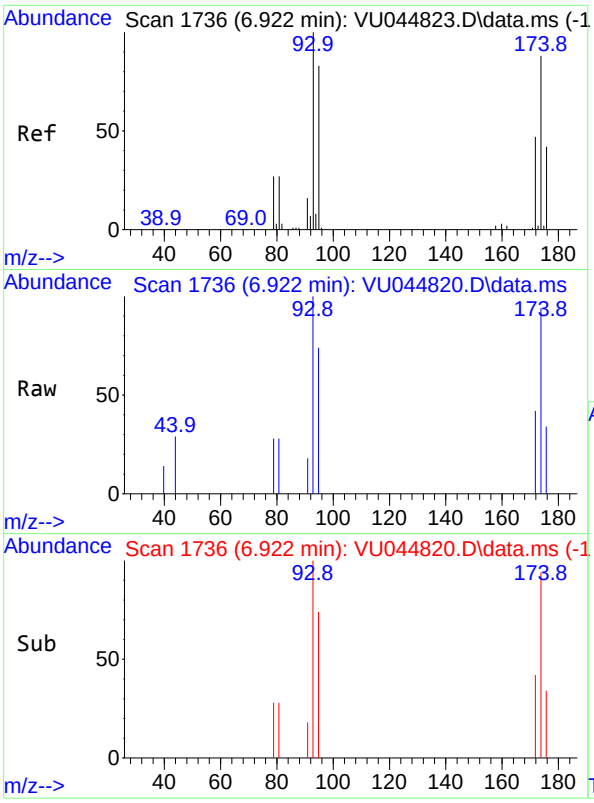
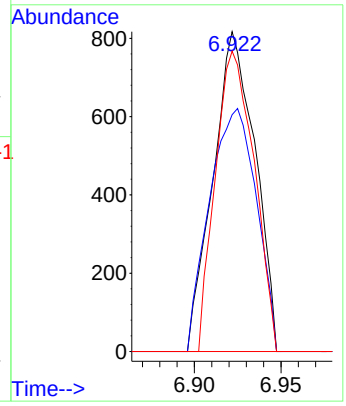
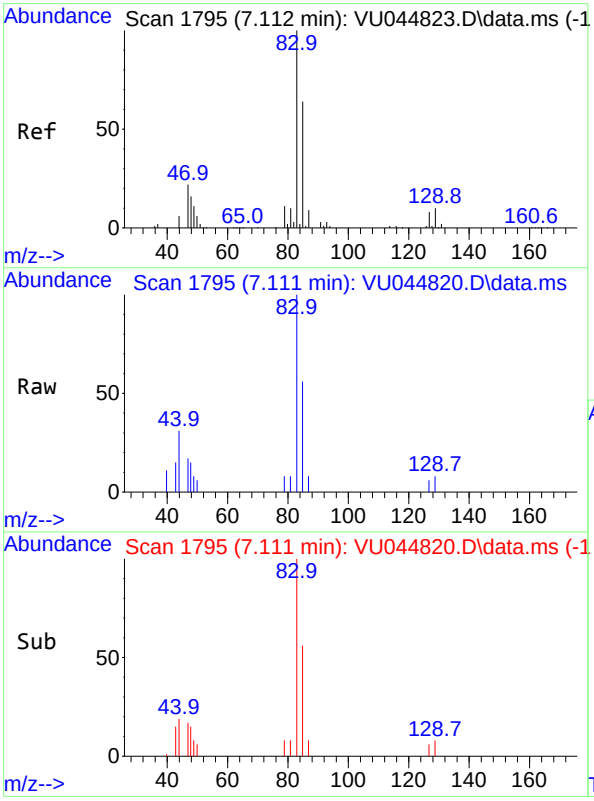


#46
Dibromomethane
Concen: 0.931 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 93 Resp: 1375

Ion	Ratio	Lower	Upper
93	100		
95	85.2	65.6	98.4
174	86.7	70.7	106.1

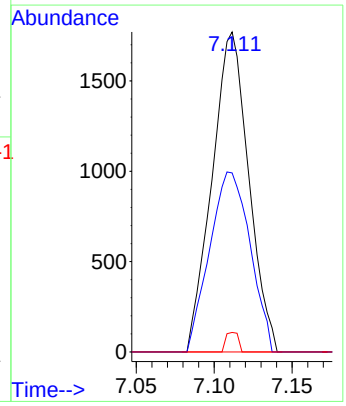




#47
Bromodichloromethane
Concen: 0.999 ug/l
RT: 7.111 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 83 Resp: 2897

Ion	Ratio	Lower	Upper
83	100		
85	56.0	51.6	77.4
127	6.1	6.2	9.4#



Instrument :
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ClientSampleId :
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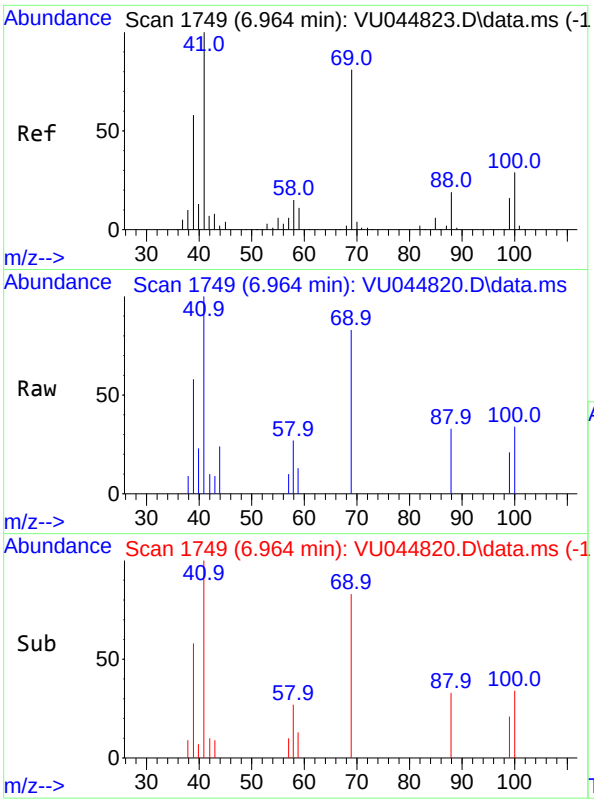
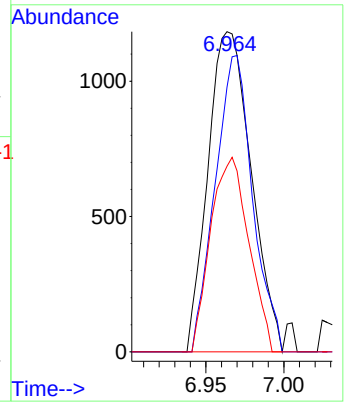
9/27/2021 11:02:30 AM

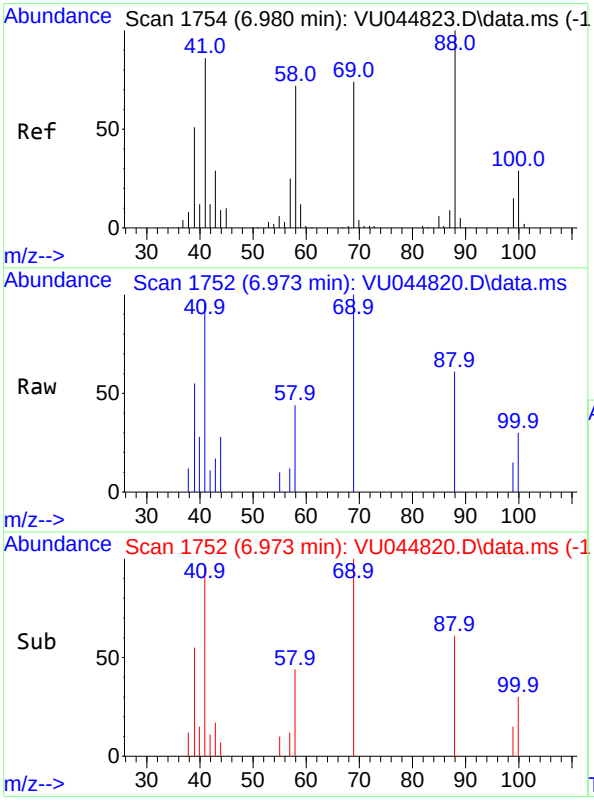


#48
Methyl methacrylate
Concen: 0.954 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 41 Resp: 2279

Ion	Ratio	Lower	Upper
41	100		
69	80.5	65.6	98.4
39	53.7	46.2	69.4

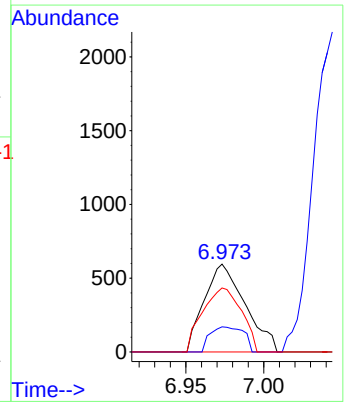




#49
1,4-Dioxane
Concen: 17.474 ug/l
RT: 6.973 min Scan# 1752
Delta R.T. -0.007 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 88 Resp: 1088

Ion	Ratio	Lower	Upper
88	100		
43	23.3	25.8	38.6#
58	69.1	61.3	91.9



Instrument :
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ClientSampleId :
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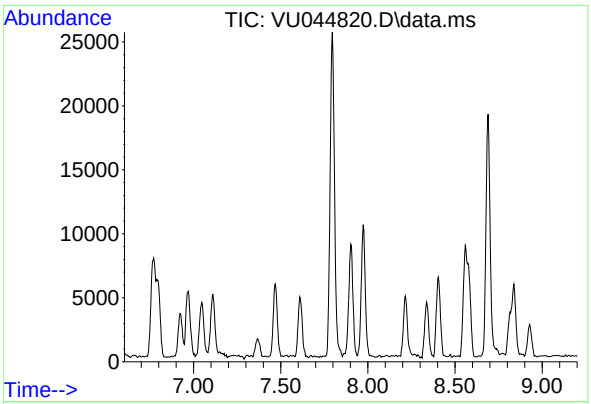
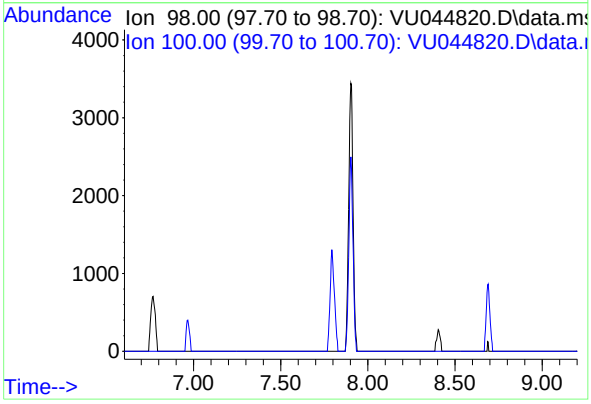


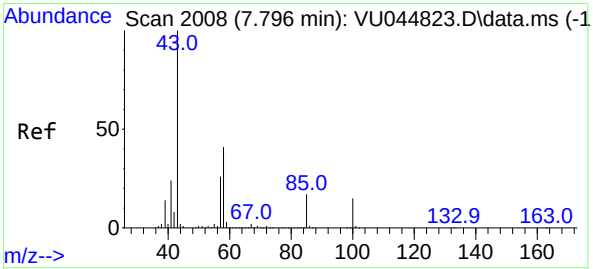
#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.90 min

Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	65.6

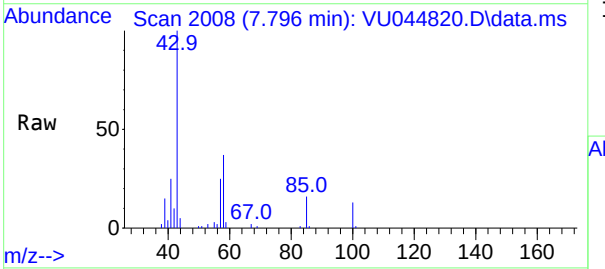


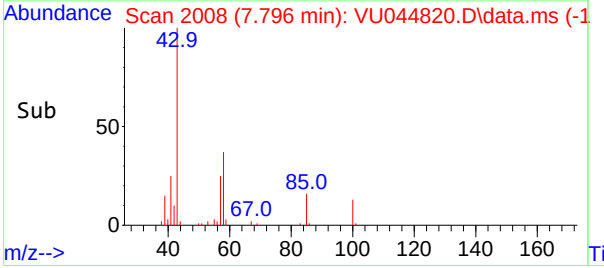


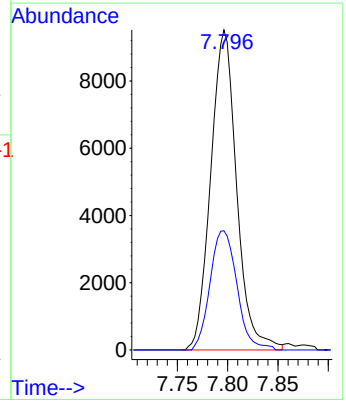
#51
4-Methyl-2-Pentanone
Concen: 4.813 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 17066

Ion	Ratio	Lower	Upper
43	100		
58	38.6	32.4	48.6







Instrument :
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ClientSampleId :
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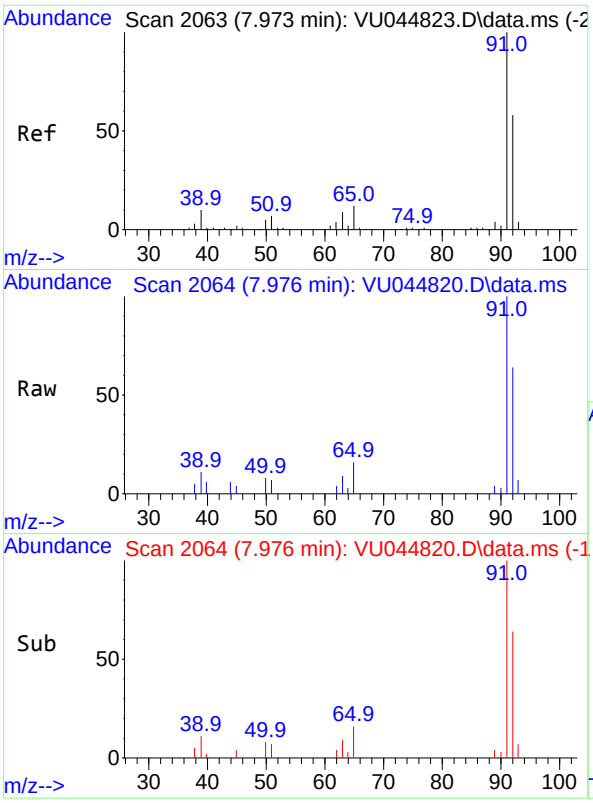
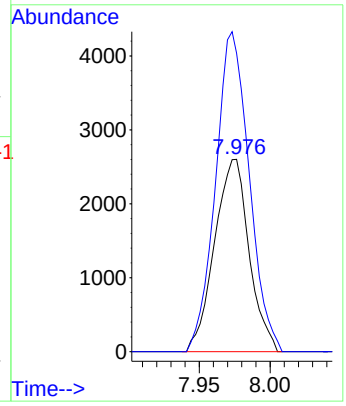
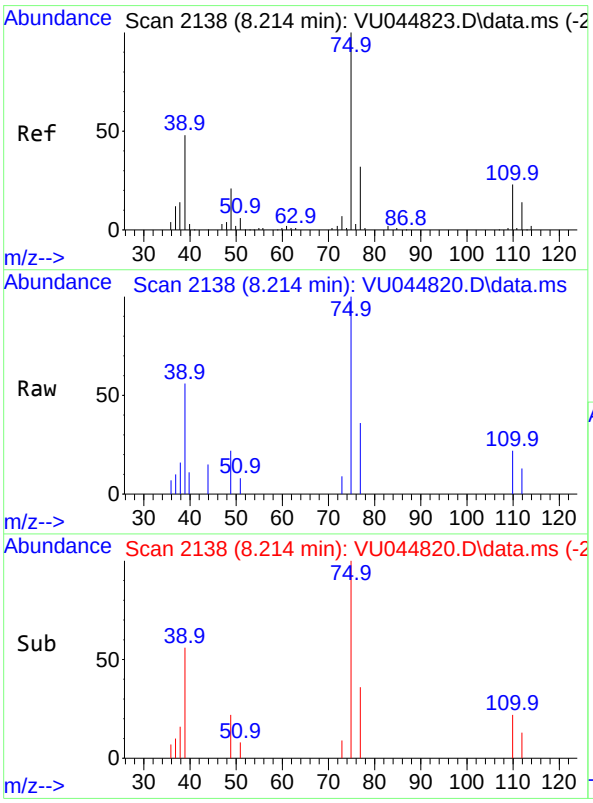


#52
Toluene
Concen: 0.890 ug/l
RT: 7.976 min Scan# 2064
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 92 Resp: 4407

Ion	Ratio	Lower	Upper
92	100		
91	162.2	136.9	205.3

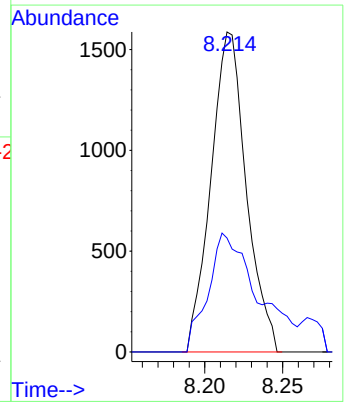




#53
t-1,3-Dichloropropene
Concen: 0.795 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 75 Resp: 2502

Ion	Ratio	Lower	Upper
75	100		
77	35.6	25.6	38.4



Instrument :
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ClientSampleId :
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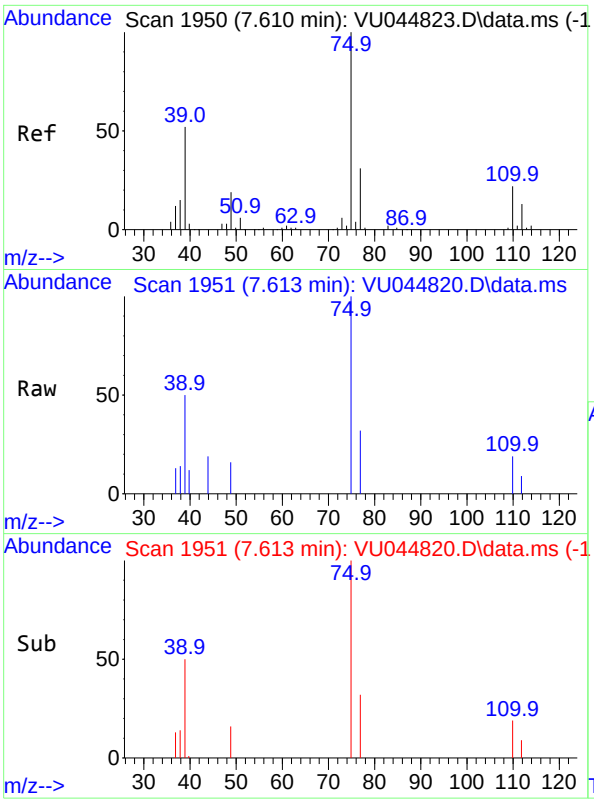
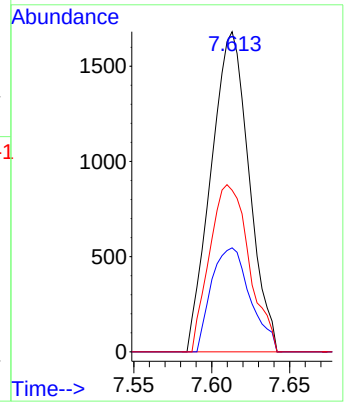
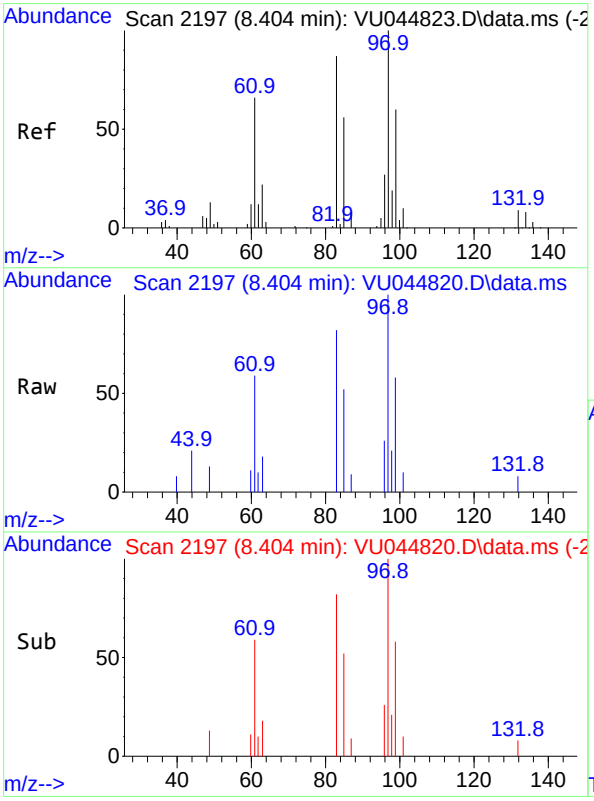


#54
cis-1,3-Dichloropropene
Concen: 0.839 ug/l
RT: 7.613 min Scan# 1951
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 75 Resp: 2849

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.0	37.6
39	50.5	41.4	62.2

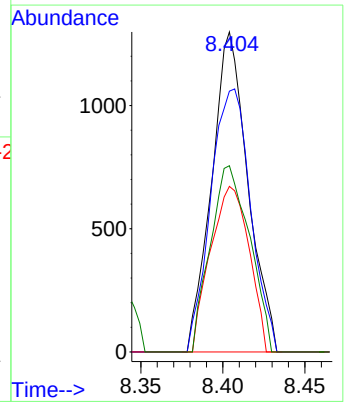




#55
1,1,2-Trichloroethane
Concen: 0.954 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 97 Resp: 1993

Ion	Ratio	Lower	Upper
97	100		
83	81.5	69.7	104.5
85	51.7	44.8	67.2
99	58.2	49.3	73.9



Instrument :
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ClientSampleId :
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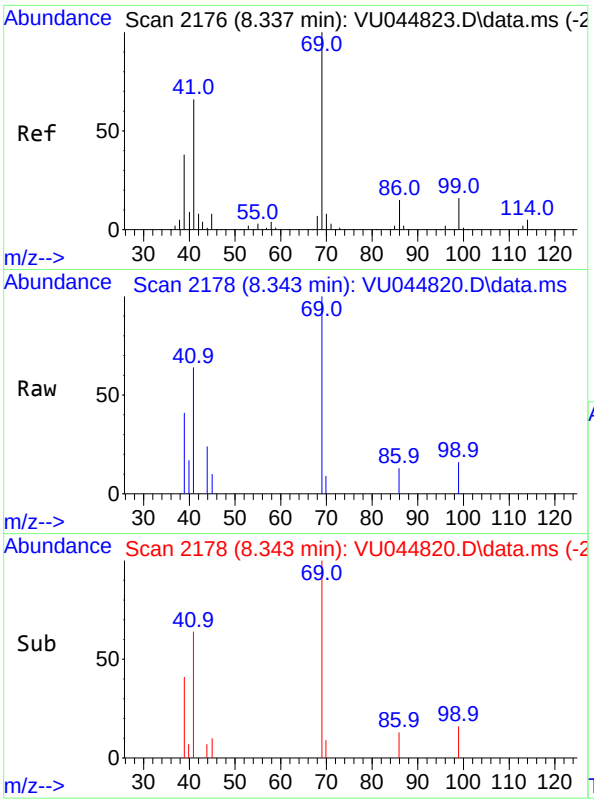
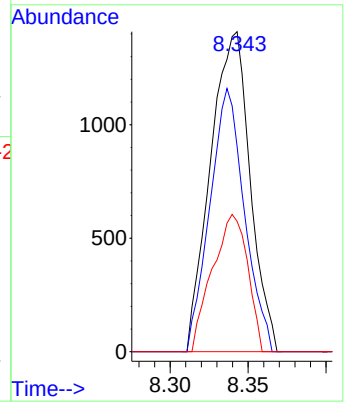
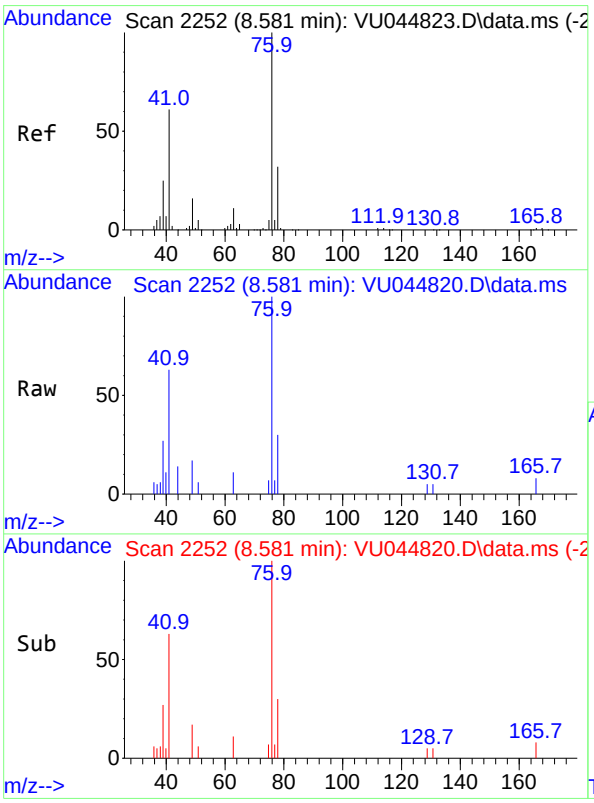


#56
Ethyl methacrylate
Concen: 0.781 ug/l
RT: 8.343 min Scan# 2178
Delta R.T. 0.006 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 69 Resp: 2495

Ion	Ratio	Lower	Upper
69	100		
41	71.7	53.5	80.3
39	38.2	31.1	46.7

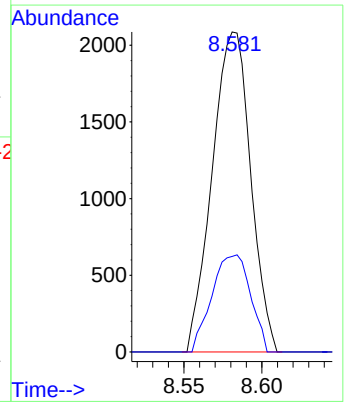




#57
1,3-Dichloropropane
Concen: 0.964 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 76 Resp: 3579

Ion	Ratio	Lower	Upper
76	100		
78	30.4	25.7	38.5



Instrument :
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ClientSampleId :
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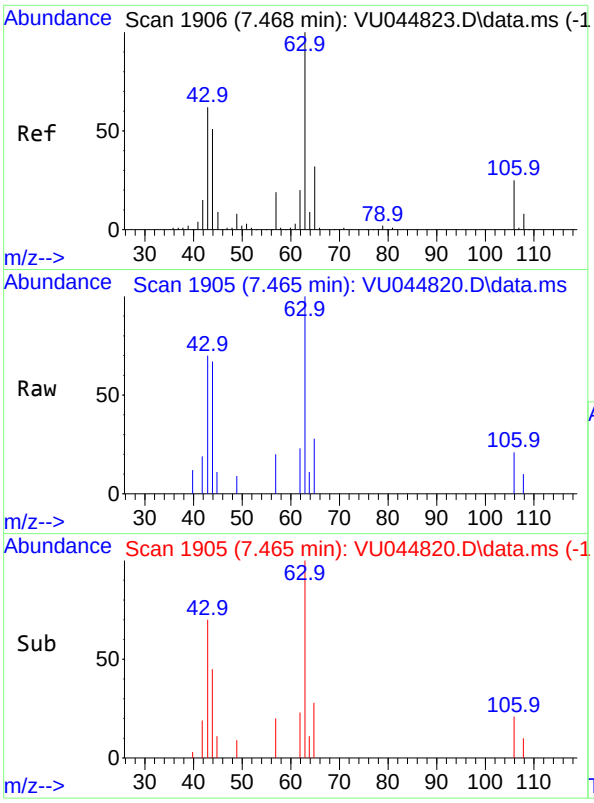
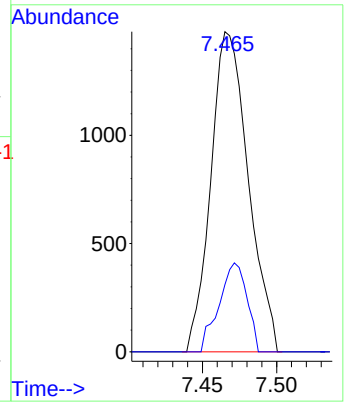
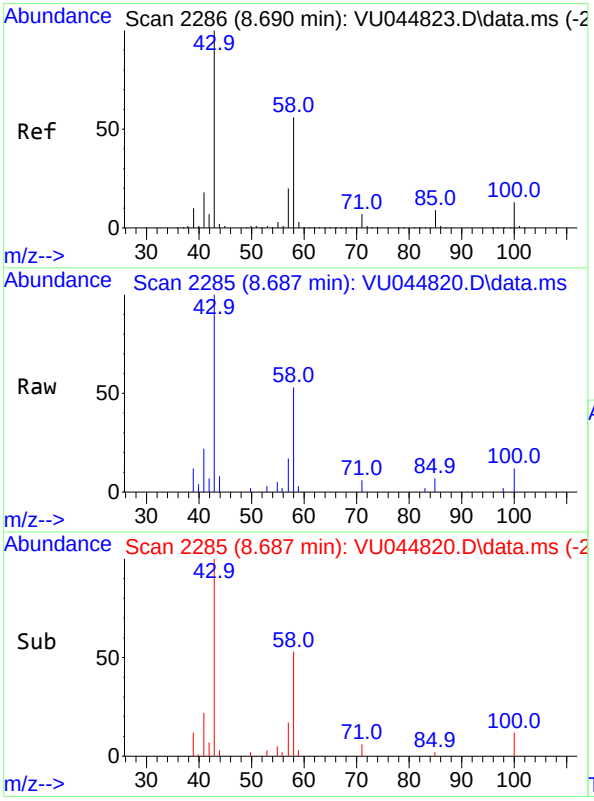


#58
2-Chloroethyl Vinyl ether
Concen: 2.756 ug/l
RT: 7.465 min Scan# 1905
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 63 Resp: 2593

Ion	Ratio	Lower	Upper
63	100		
106	20.7	20.5	30.7

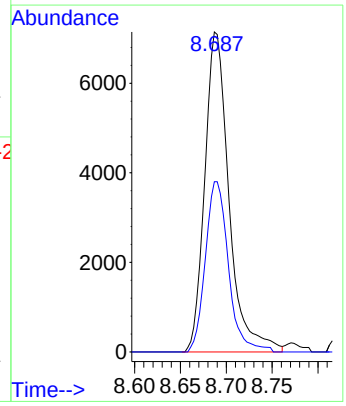




#59
2-Hexanone
Concen: 4.640 ug/l
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 13150

Ion	Ratio	Lower	Upper
43	100		
58	50.7	28.0	84.0



Instrument :
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ClientSampleId :
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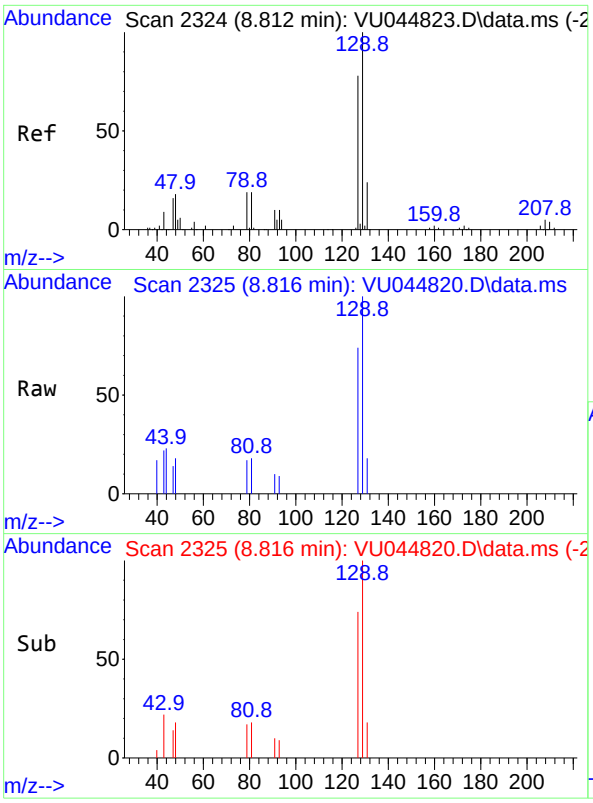
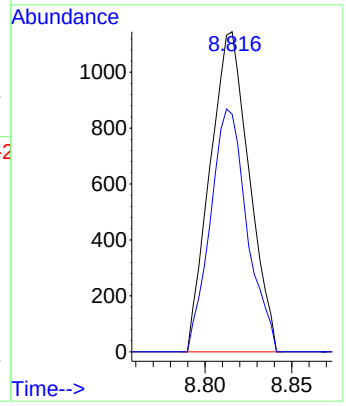
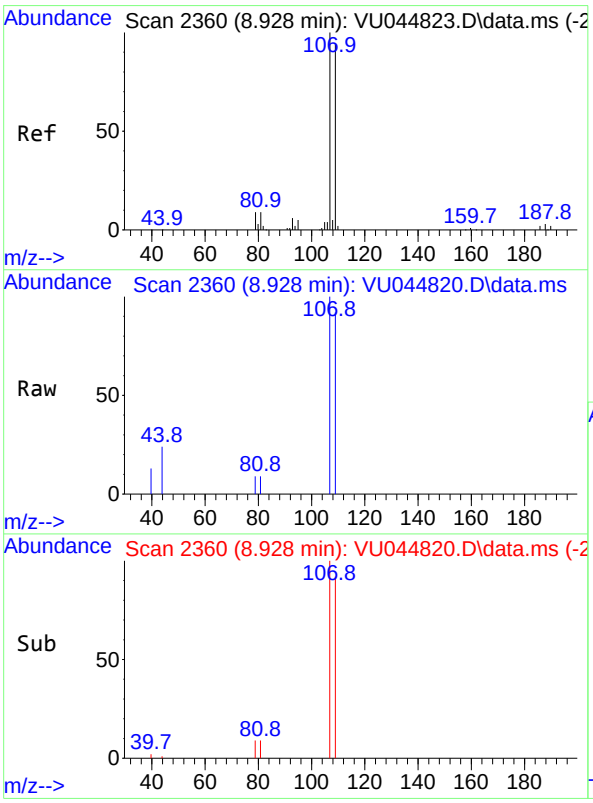


#60
Dibromochloromethane
Concen: 0.870 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:129 Resp: 1796

Ion	Ratio	Lower	Upper
129	100		
127	71.4	39.0	117.0

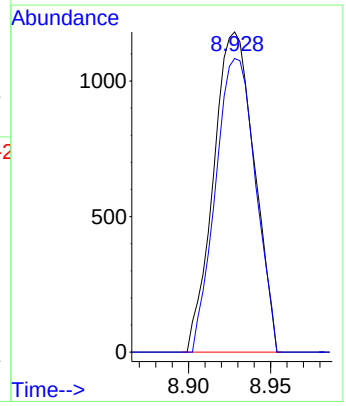




#61
1,2-Dibromoethane
Concen: 0.928 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:107 Resp: 2041

Ion	Ratio	Lower	Upper
107	100		
109	89.8	74.8	112.2



Instrument :
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ClientSampleId :
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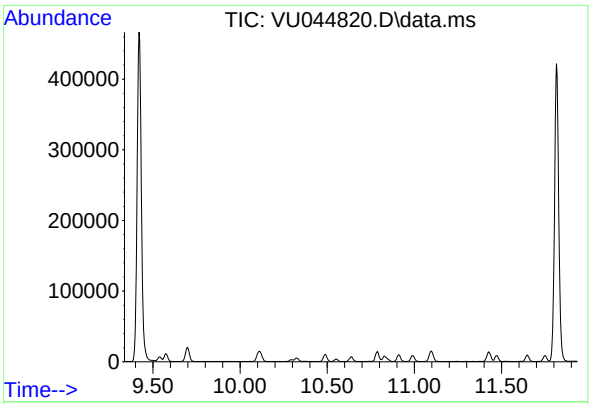
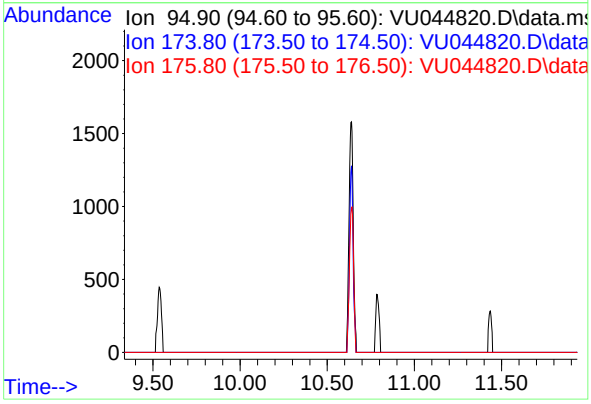


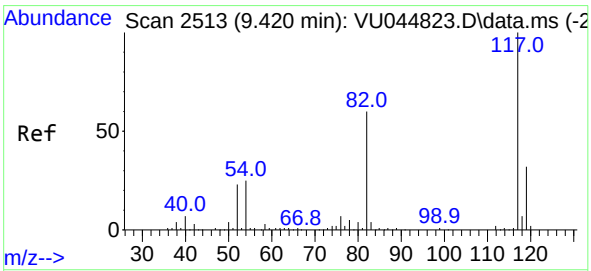
#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 10.64 min

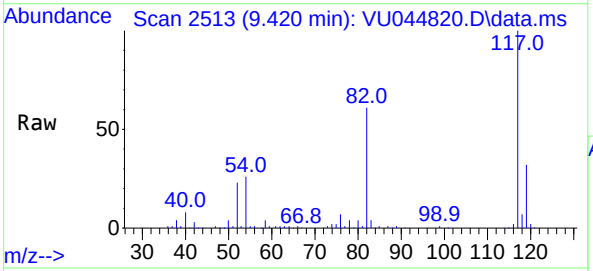
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

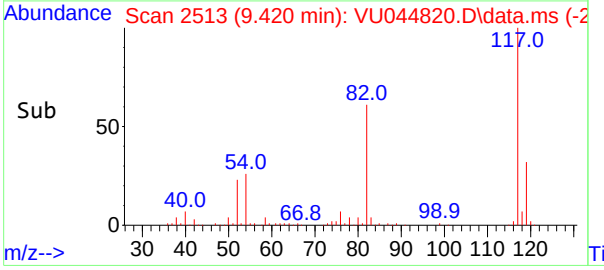
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	73.3
176	70.6





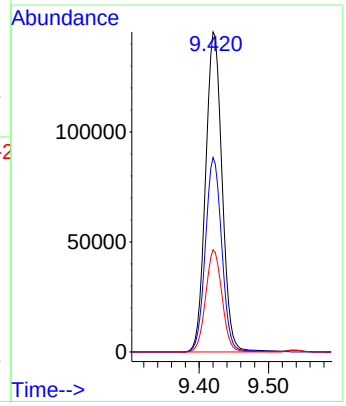




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:117 Resp: 240542

Ion	Ratio	Lower	Upper
117	100		
82	60.8	47.8	71.8
119	32.0	25.8	38.6



Instrument :
MSVOA_U
ClientSampleId :
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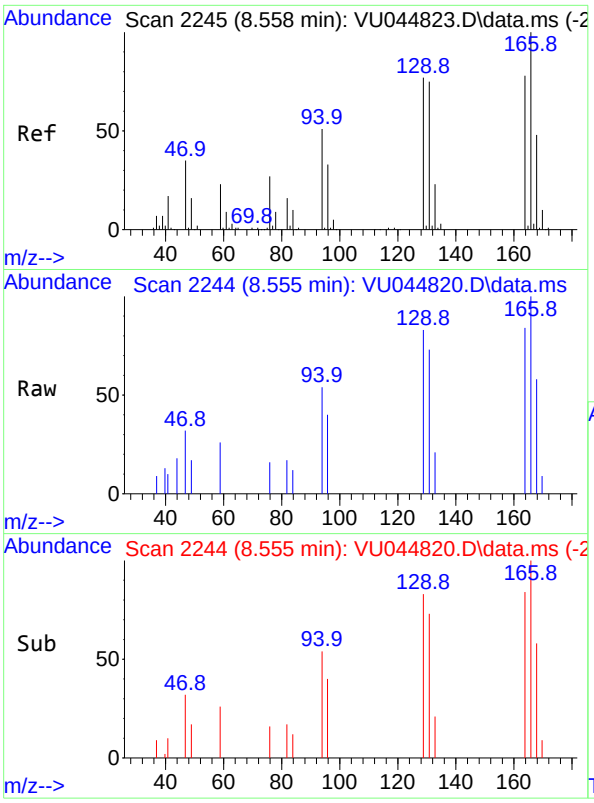
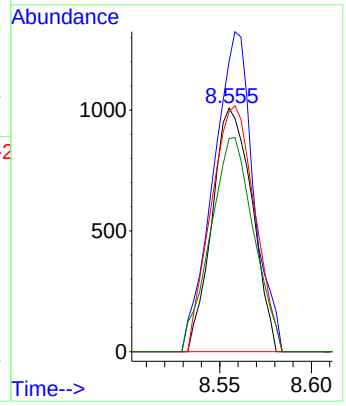
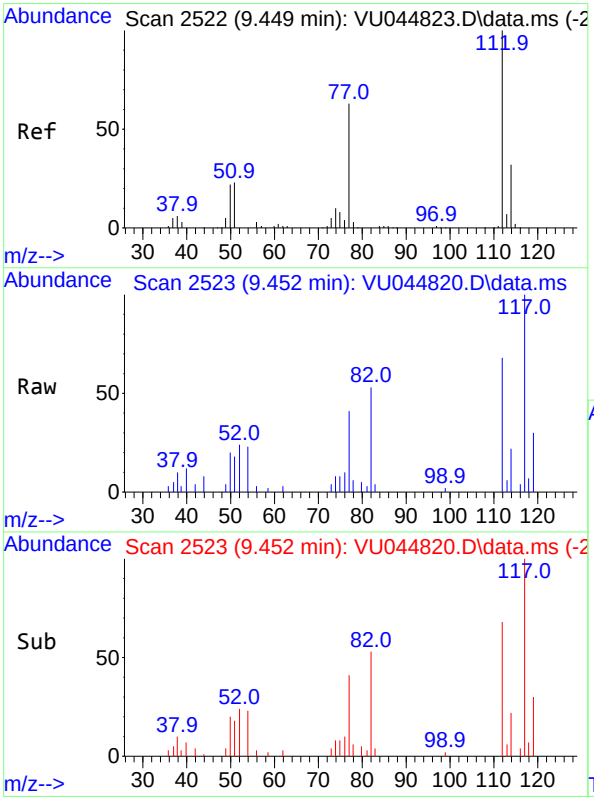


#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:164 Resp: 1528

Ion	Ratio	Lower	Upper
164	100		
166	119.2	102.8	154.2
129	98.5	79.4	119.2
131	87.5	77.4	116.2

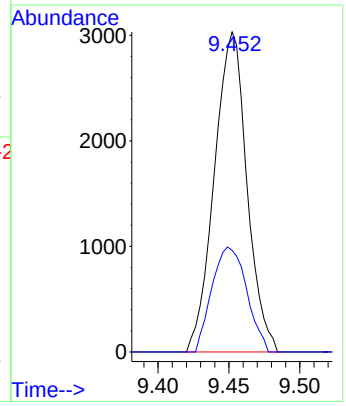




#65
Chlorobenzene
Concen: 0.941 ug/l
RT: 9.452 min Scan# 2523
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:112 Resp: 4854

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.9	38.9



Instrument :
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ClientSampleId :
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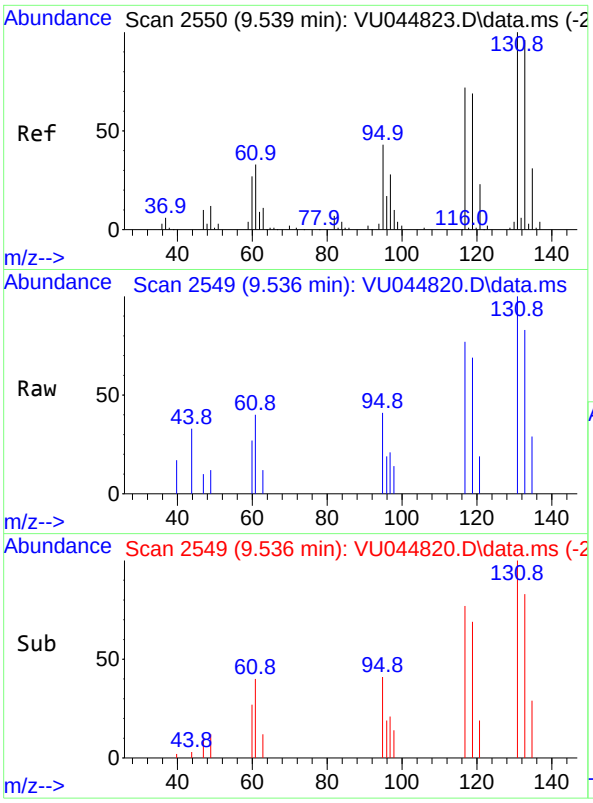
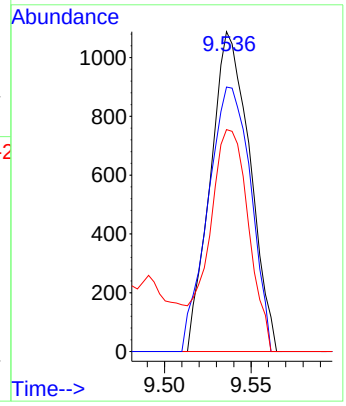
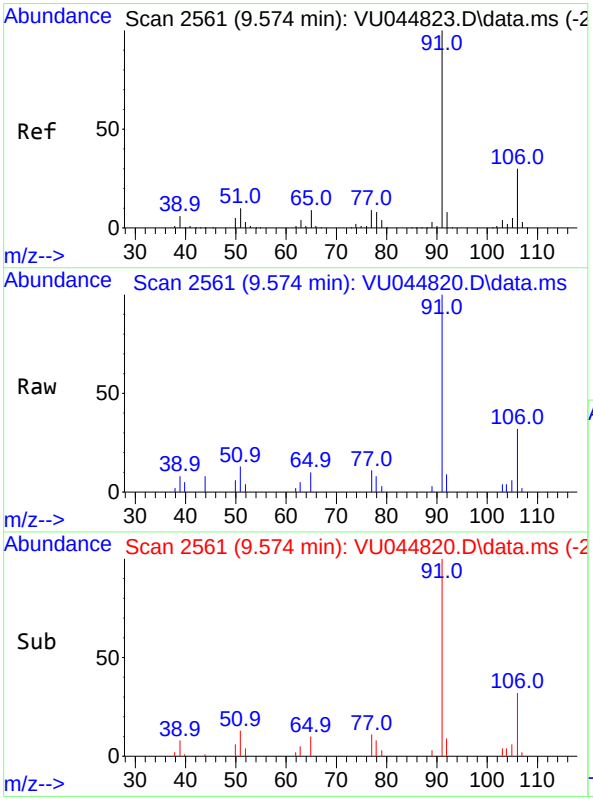


#66
1,1,1,2-Tetrachloroethane
Concen: 0.951 ug/l
RT: 9.536 min Scan# 2549
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:131 Resp: 1717

Ion	Ratio	Lower	Upper
131	100		
133	89.8	48.1	144.3
119	0.0	34.1	102.3#

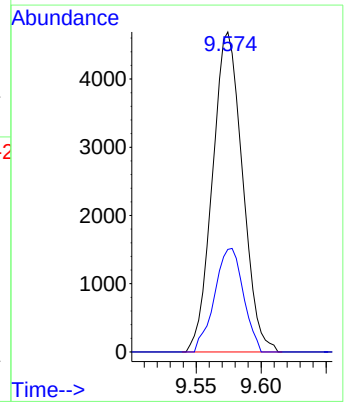




#67
Ethyl Benzene
Concen: 0.812 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 91 Resp: 7509

Ion	Ratio	Lower	Upper
91	100		
106	32.0	24.3	36.5



Instrument :
MSVOA_U
ClientSampleId :
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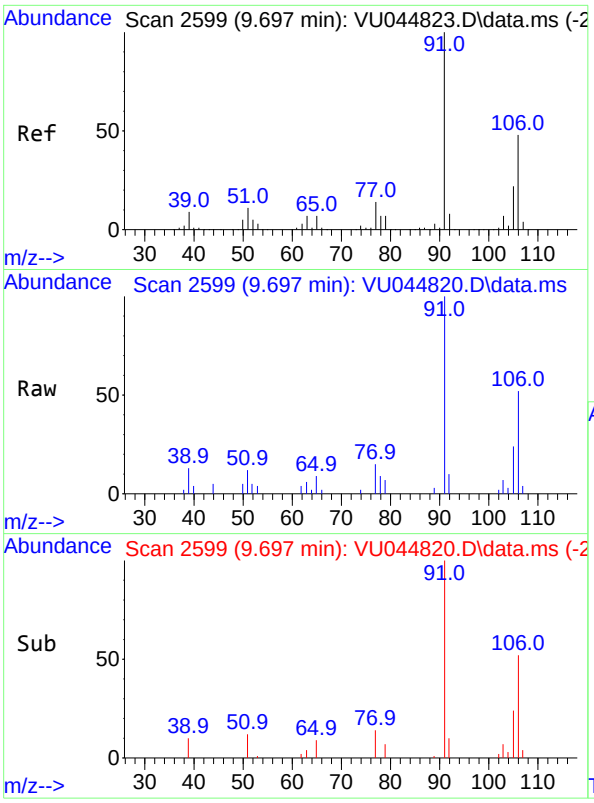
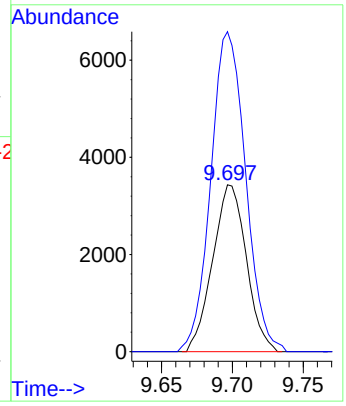
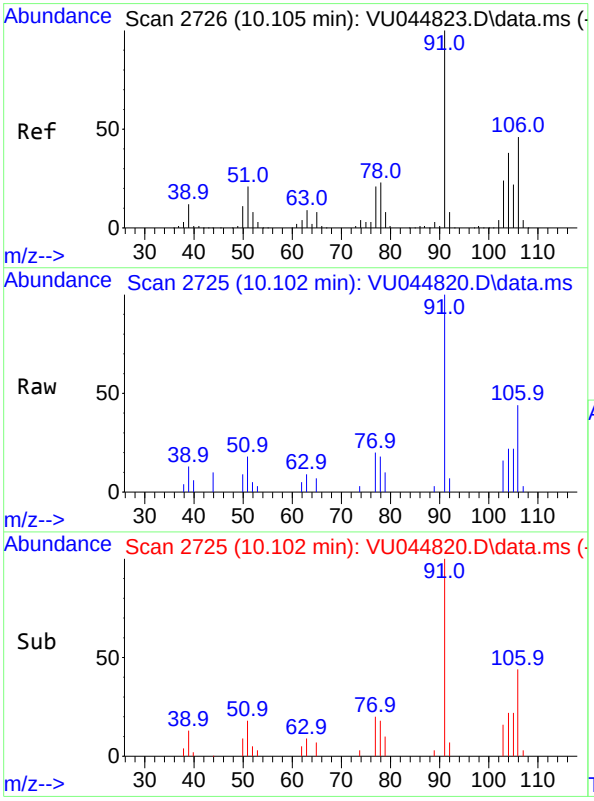


#68
m/p-Xylenes
Concen: 1.641 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:106 Resp: 5684

Ion	Ratio	Lower	Upper
106	100		
91	198.2	164.2	246.2

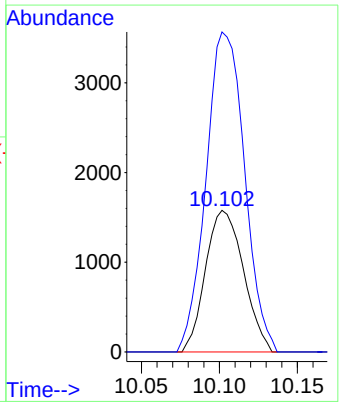




#69
o-Xylene
Concen: 0.811 ug/l
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:106 Resp: 2671

Ion	Ratio	Lower	Upper
106	100		
91	229.6	108.9	326.7



Instrument :
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ClientSampleId :
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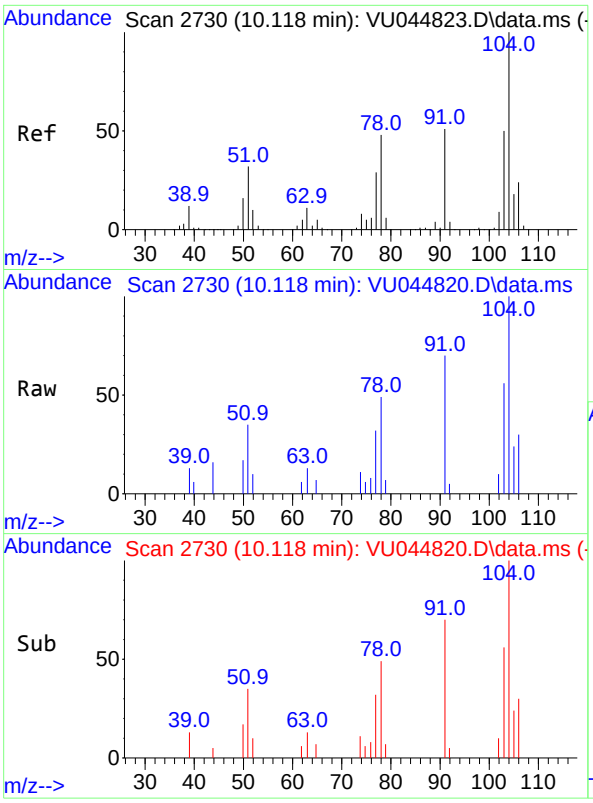
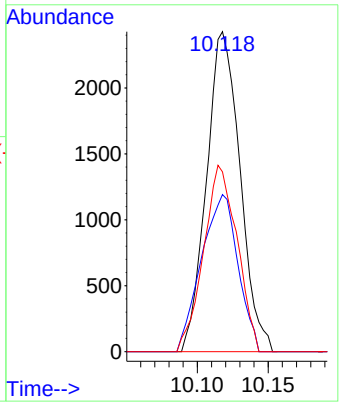
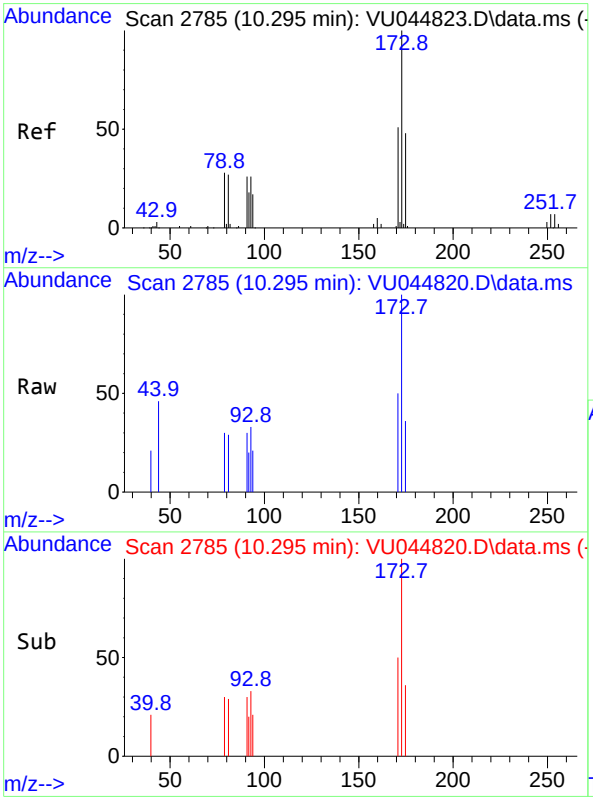


#70
Styrene
Concen: 0.701 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:104 Resp: 3998

Ion	Ratio	Lower	Upper
104	100		
78	53.4	41.4	62.0
103	58.1	43.5	65.3

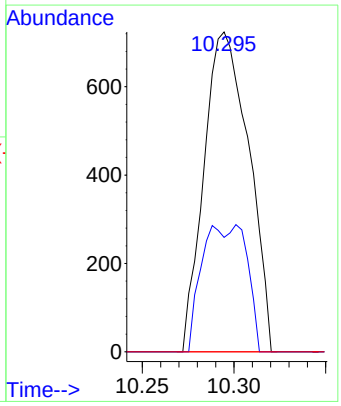




#71
Bromoform
Concen: 0.807 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:173 Resp: 1229

Ion	Ratio	Lower	Upper
173	100		
175	21.7	24.3	73.0#
254	0.0	0.0	0.0



Instrument :
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ClientSampleId :
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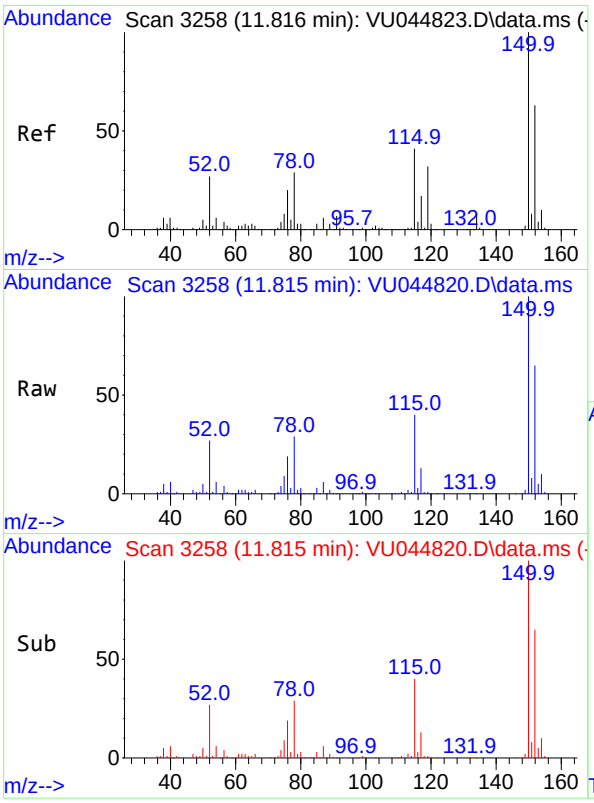
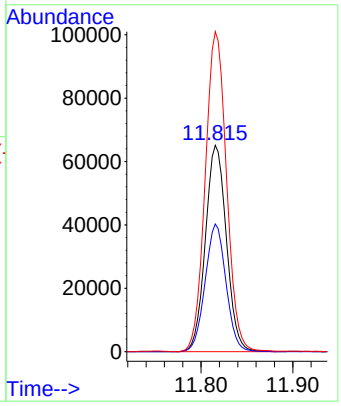
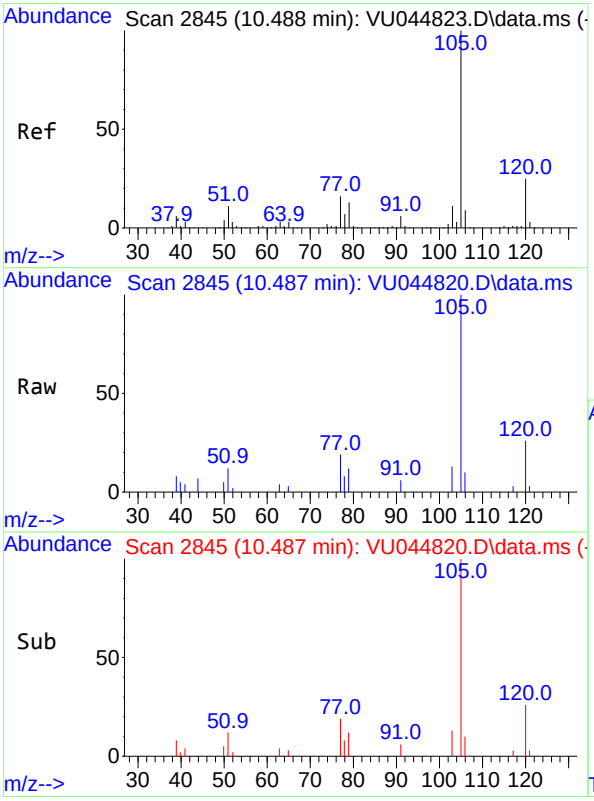


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:152 Resp: 103826

Ion	Ratio	Lower	Upper
152	100		
115	61.4	43.5	130.7
150	156.8	0.0	350.0

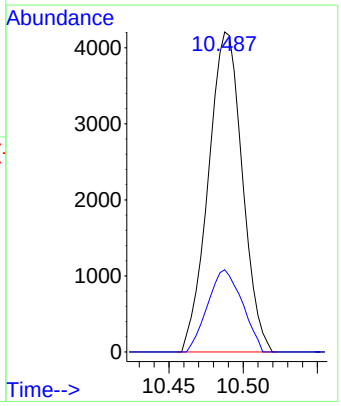




#73
Isopropylbenzene
Concen: 0.951 ug/l
RT: 10.487 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:105 Resp: 6696

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.3



Instrument :
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ClientSampleId :
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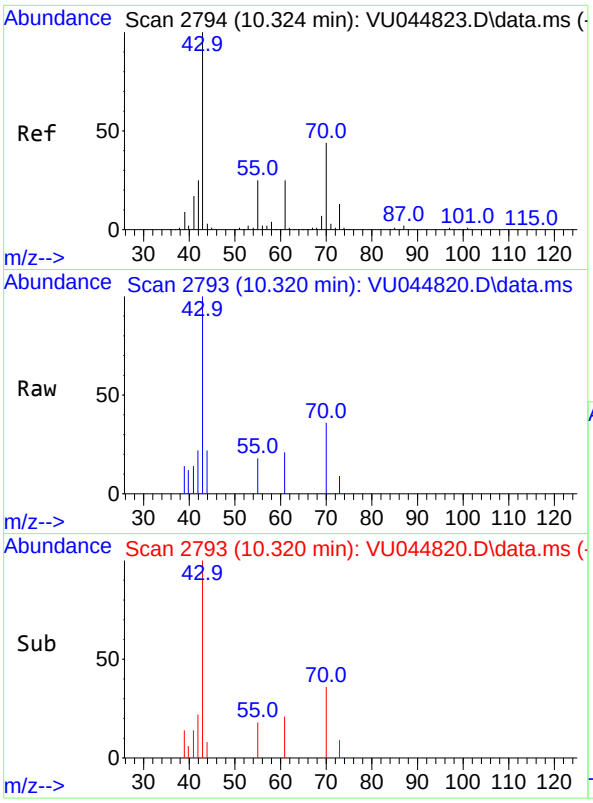
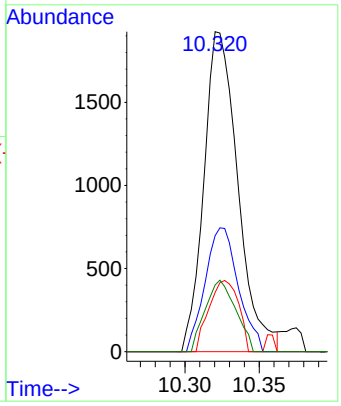
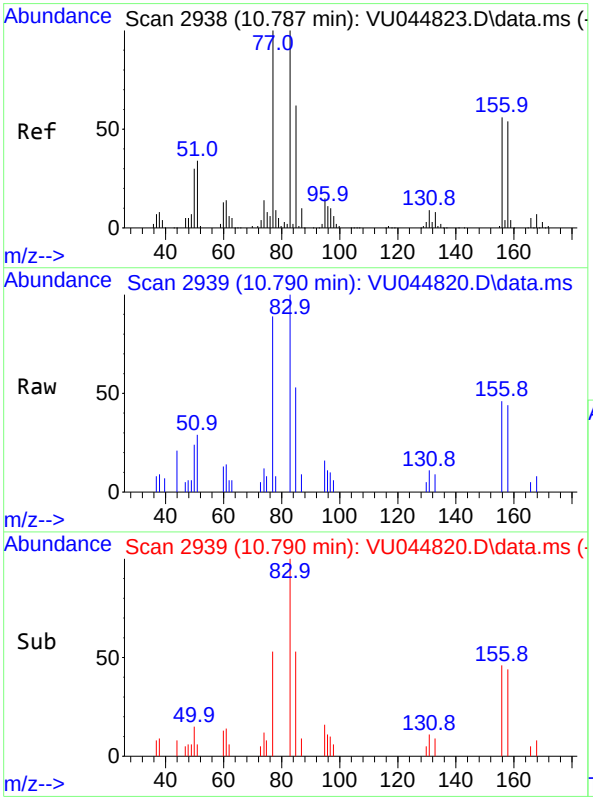


#74
N-amyl acetate
Concen: 0.942 ug/l
RT: 10.320 min Scan# 2793
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 43 Resp: 3064

Ion	Ratio	Lower	Upper
43	100		
70	37.9	35.1	52.7
55	19.3	20.5	30.7#
61	20.0	19.6	29.4

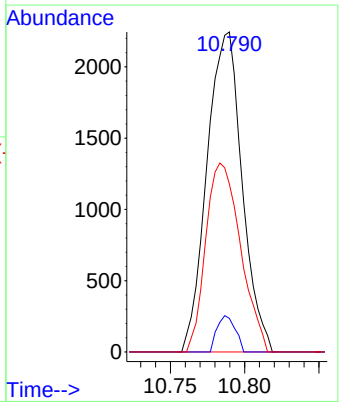




#75
1,1,2,2-Tetrachloroethane
Concen: 1.200 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 83 Resp: 3693

Ion	Ratio	Lower	Upper
83	100		
131	5.9	4.3	13.1
85	58.5	31.9	95.5



Instrument :
MSVOA_U
ClientSampleId :
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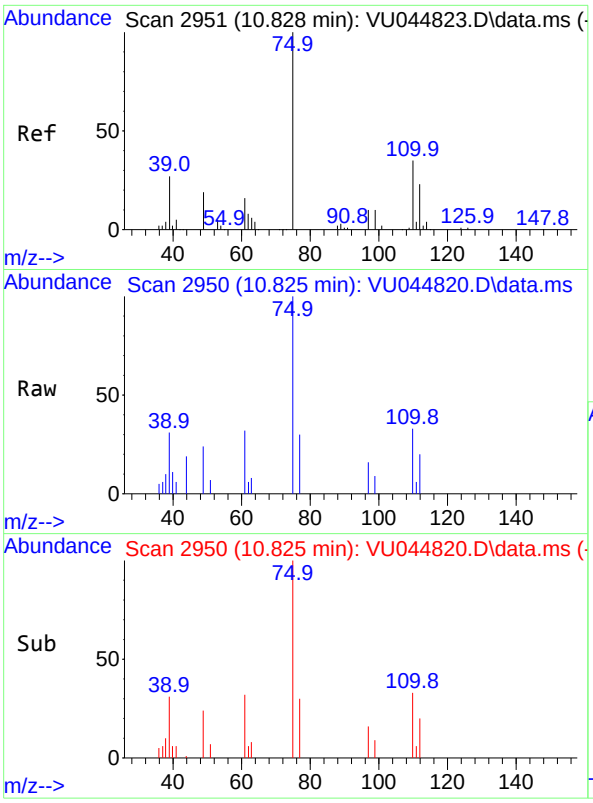
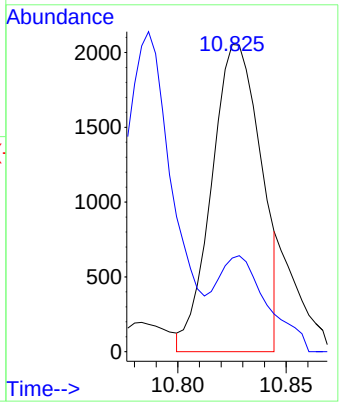
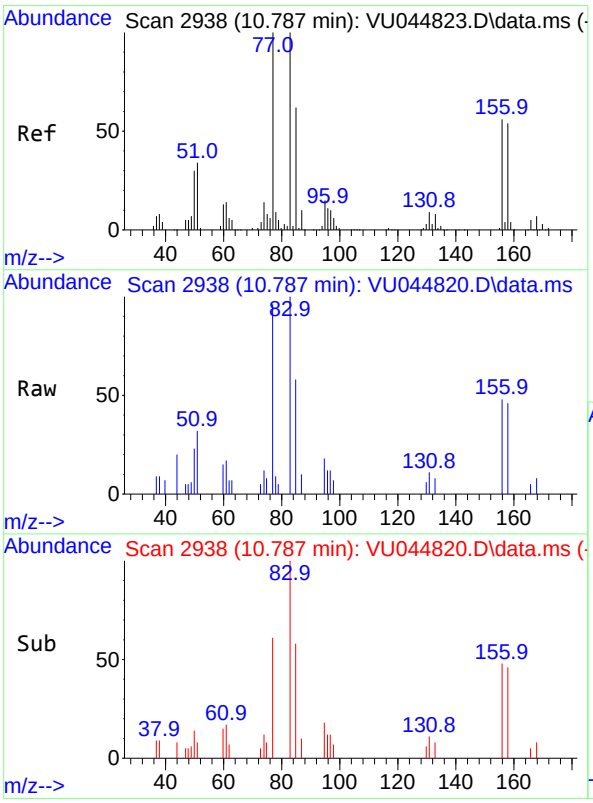


#76
1,2,3-Trichloropropane
Concen: 0.954 ug/l m
RT: 10.825 min Scan# 2950
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 75 Resp: 3257

Ion	Ratio	Lower	Upper
75	100		
77	32.4	17.9	53.7

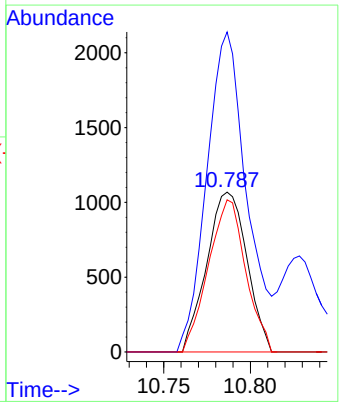




#77
Bromobenzene
Concen: 0.975 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:156 Resp: 1722

Ion	Ratio	Lower	Upper
156	100		
77	197.6	91.1	273.4
158	88.4	48.2	144.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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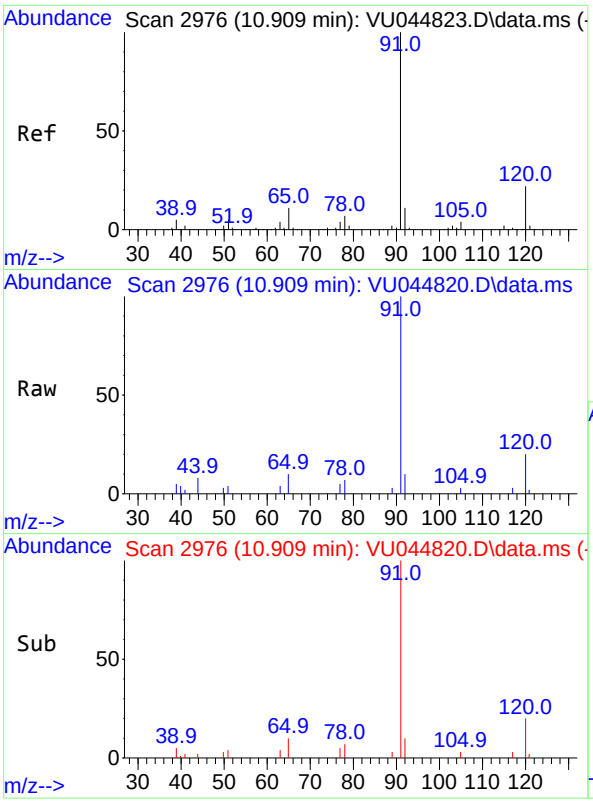
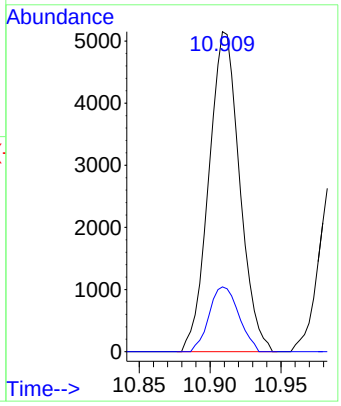
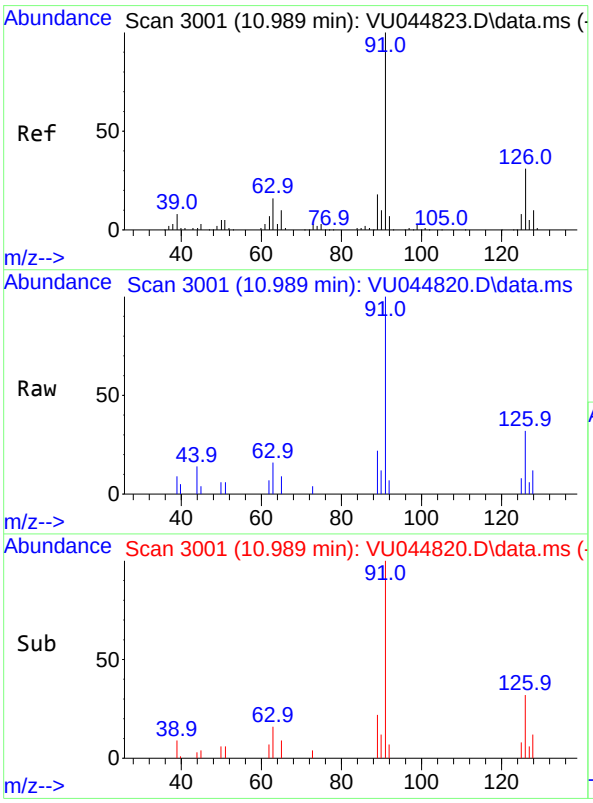


#78
n-propylbenzene
Concen: 0.854 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 91 Resp: 7780

Ion	Ratio	Lower	Upper
91	100		
120	19.5	10.8	32.4

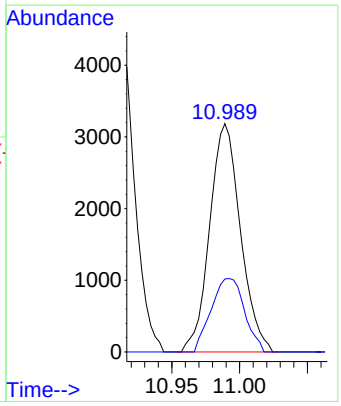




#79
2-Chlorotoluene
Concen: 0.933 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 91 Resp: 5040

Ion	Ratio	Lower	Upper
91	100		
126	34.7	15.7	47.0



Instrument :
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ClientSampleId :
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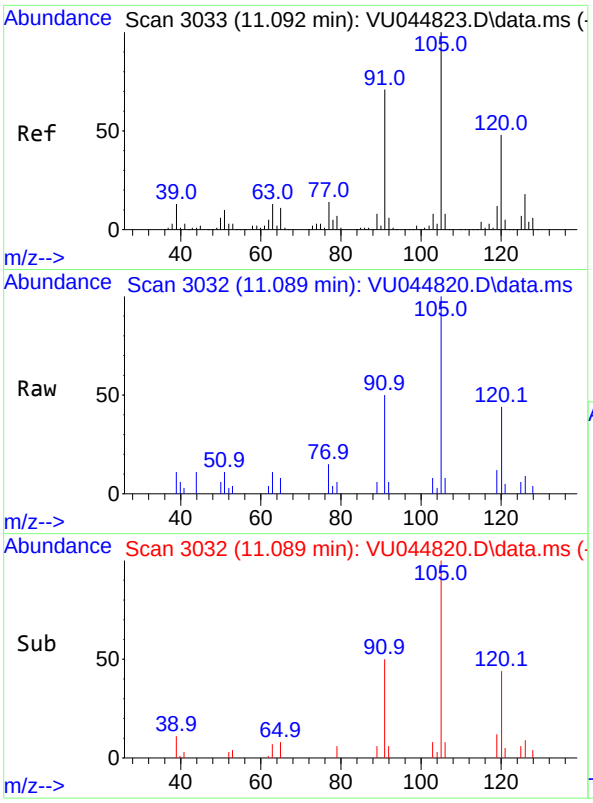
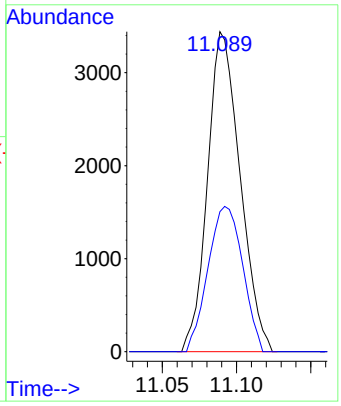
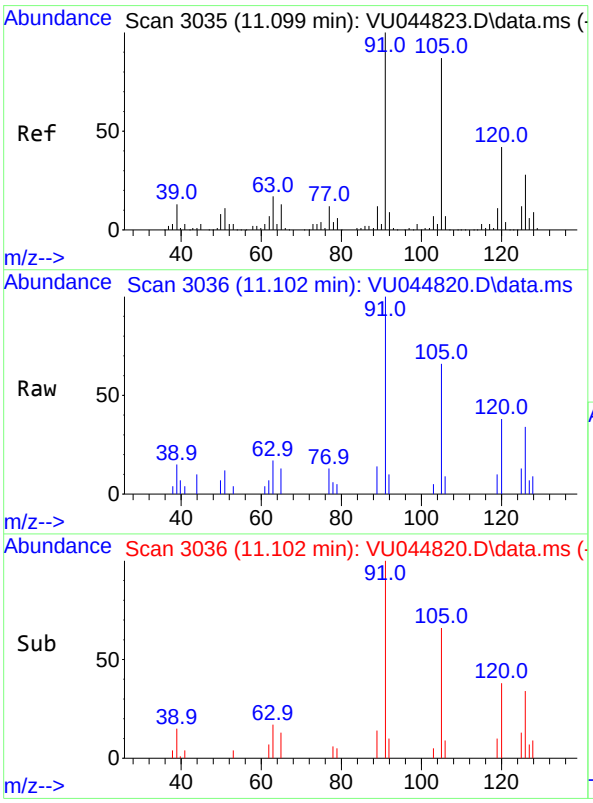


#80
1,3,5-Trimethylbenzene
Concen: 0.844 ug/l
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:105 Resp: 5249

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.1	72.2

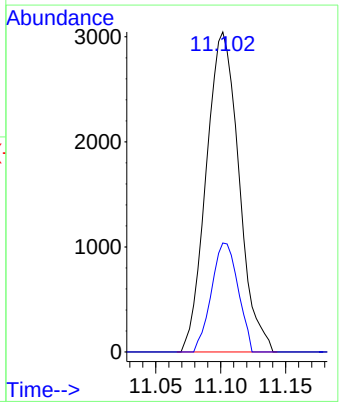




#82
4-Chlorotoluene
Concen: 0.839 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 91 Resp: 5326

Ion	Ratio	Lower	Upper
91	100		
126	27.7	13.8	41.4



Instrument :
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ClientSampleId :
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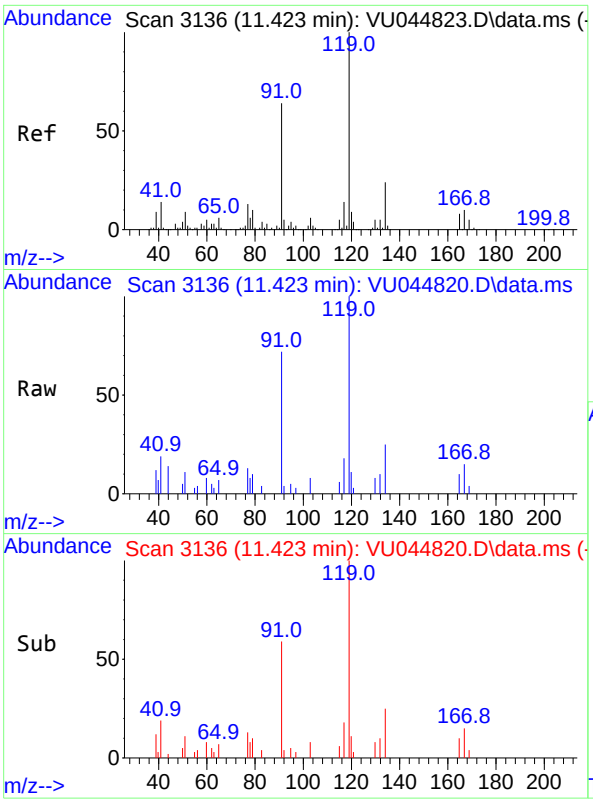
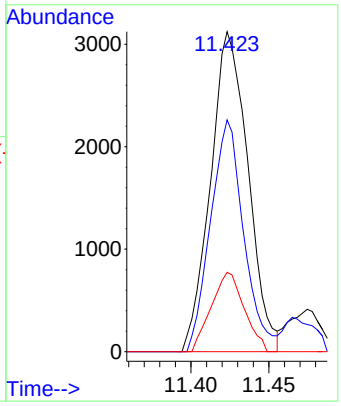
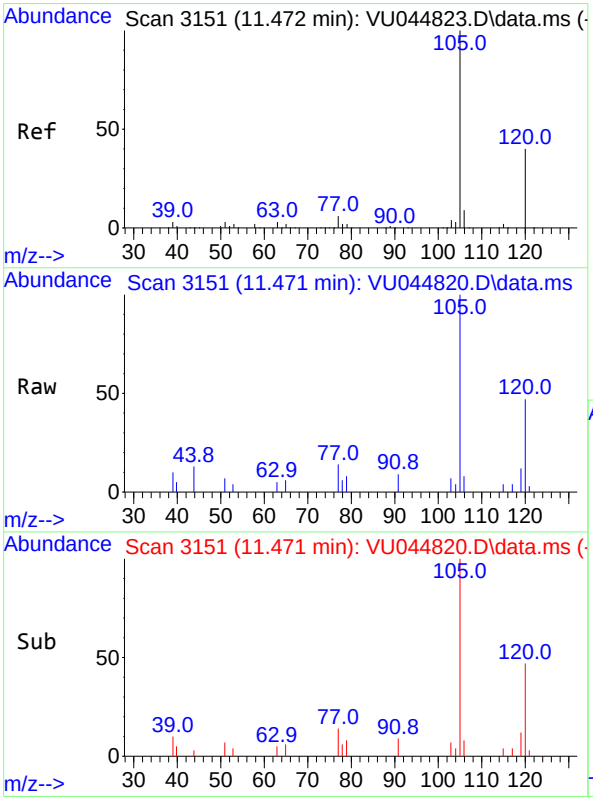


#83
tert-Butylbenzene
Concen: 0.893 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:119 Resp: 5225

Ion	Ratio	Lower	Upper
119	100		
91	64.2	30.4	91.2
134	21.8	11.5	34.5

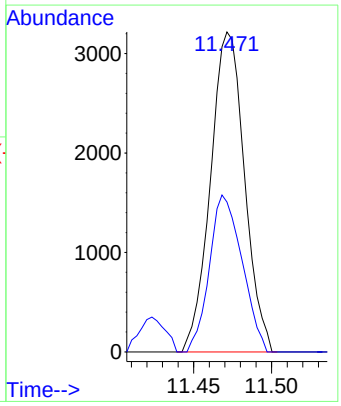




#84
1,2,4-Trimethylbenzene
Concen: 0.785 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:105 Resp: 4888

Ion	Ratio	Lower	Upper
105	100		
120	47.0	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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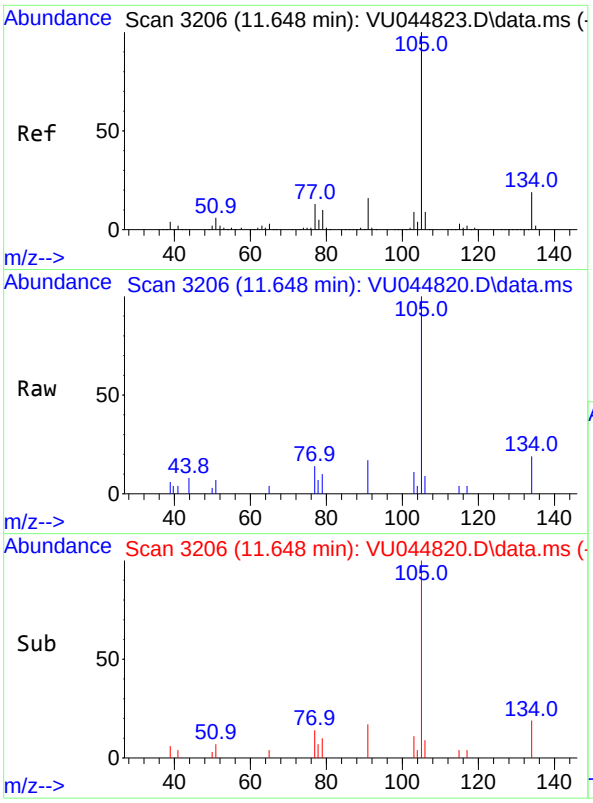
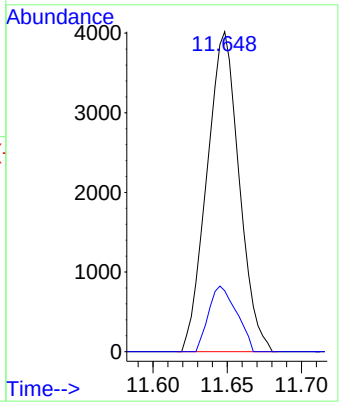
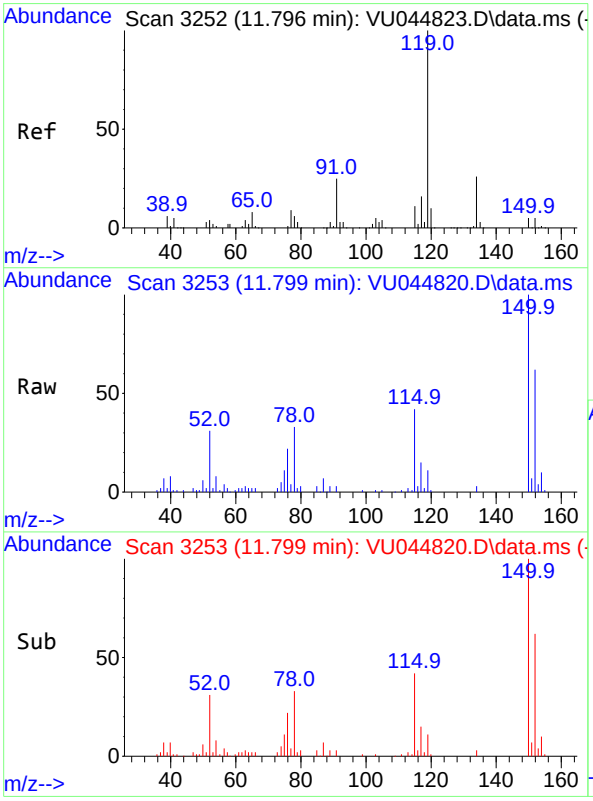


#85
sec-Butylbenzene
Concen: 0.786 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:105 Resp: 6066

Ion	Ratio	Lower	Upper
105	100		
134	17.7	9.3	28.0

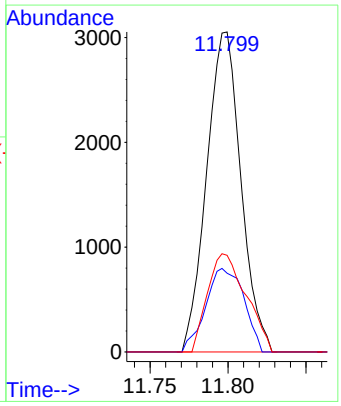




#86
p-Isopropyltoluene
Concen: 0.715 ug/l
RT: 11.799 min Scan# 3253
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

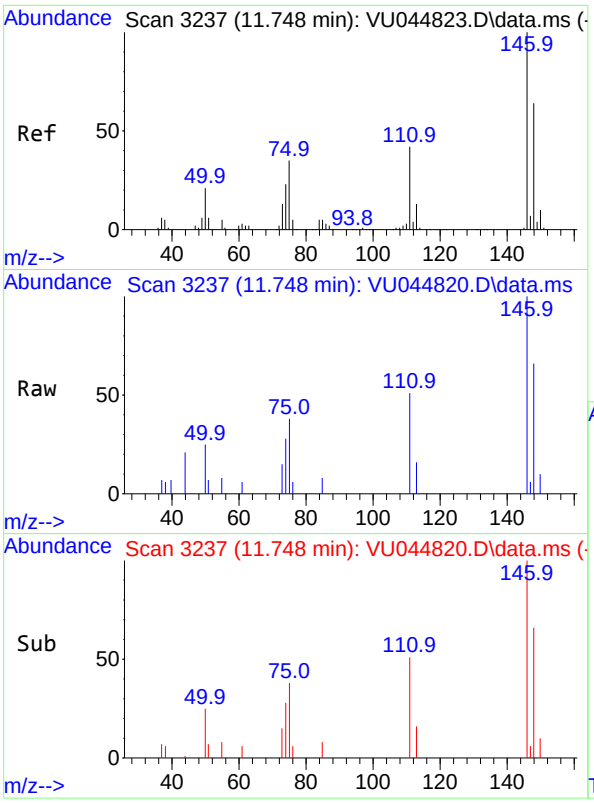
Tgt Ion:119 Resp: 4665

Ion	Ratio	Lower	Upper
119	100		
134	29.0	12.8	38.3
91	34.5	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

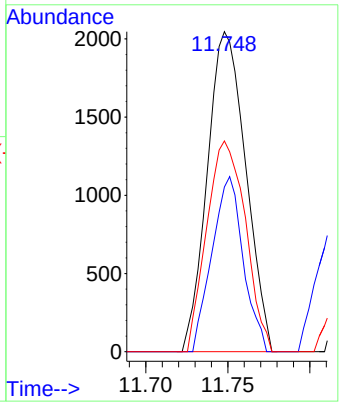
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

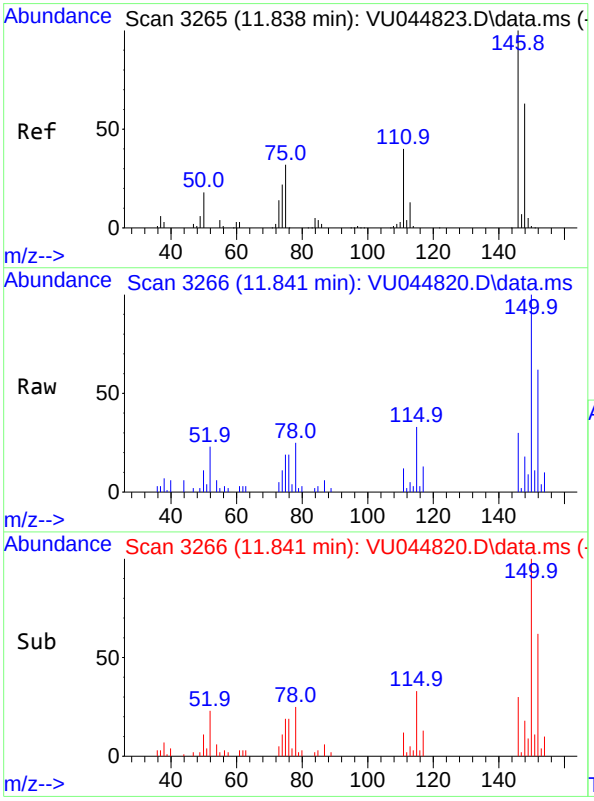


#87
1,3-Dichlorobenzene
Concen: 0.967 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:146 Resp: 3330

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.2	63.6
148	66.3	32.1	96.3

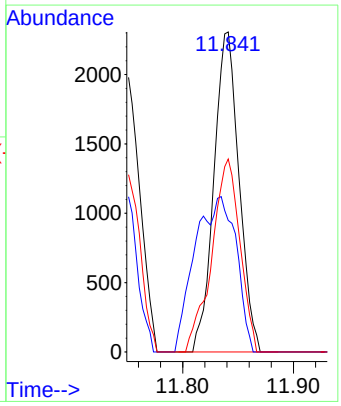




#88
1,4-Dichlorobenzene
Concen: 0.991 ug/l m
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

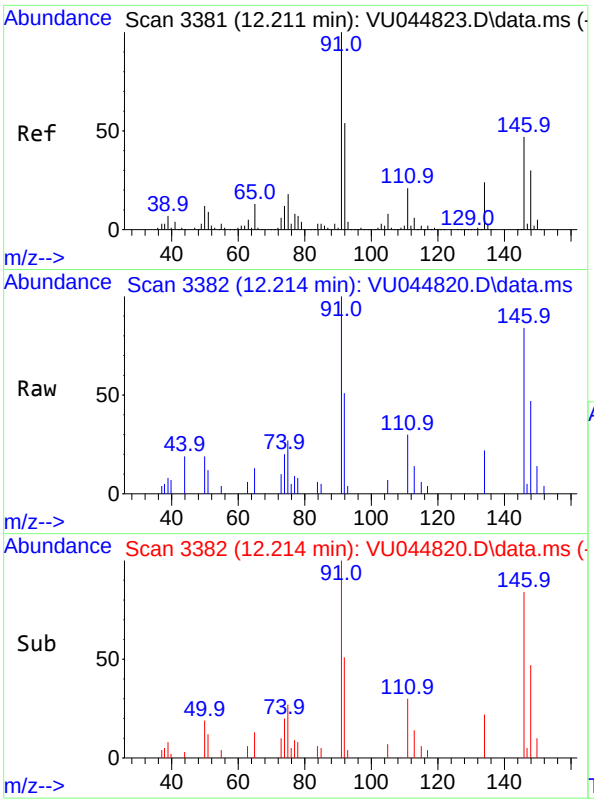
Tgt Ion:146 Resp: 3629

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.3	61.0
148	60.8	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

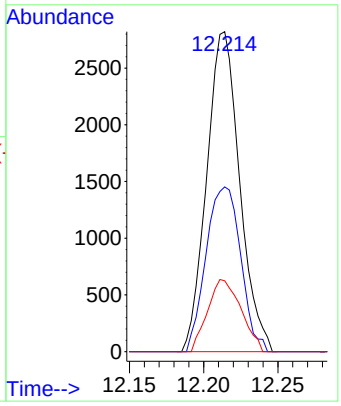
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

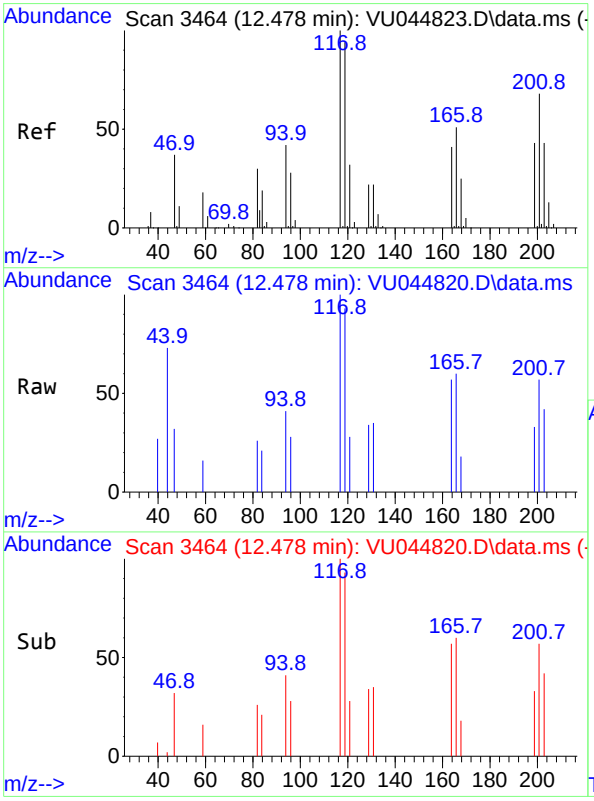


#89
n-Butylbenzene
Concen: 0.663 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion: 91 Resp: 4360

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.8	80.4
134	22.8	11.8	35.4

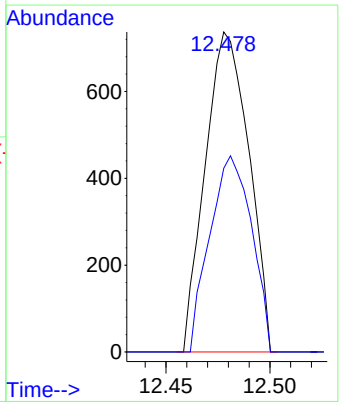




#90
Hexachloroethane
Concen: 1.021 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

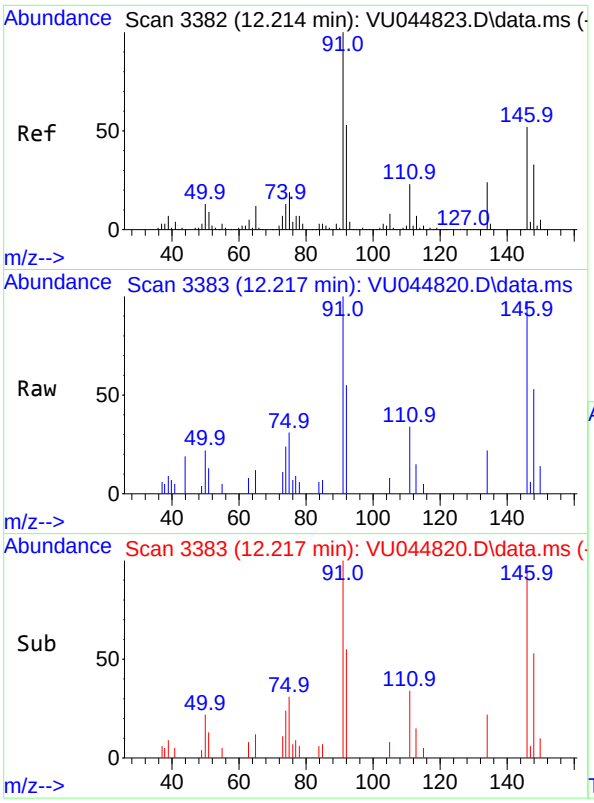
Tgt Ion:117 Resp: 1076

Ion	Ratio	Lower	Upper
117	100		
201	58.9	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

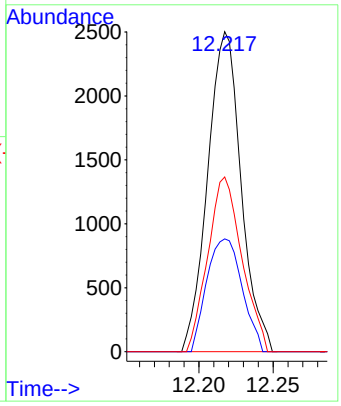
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

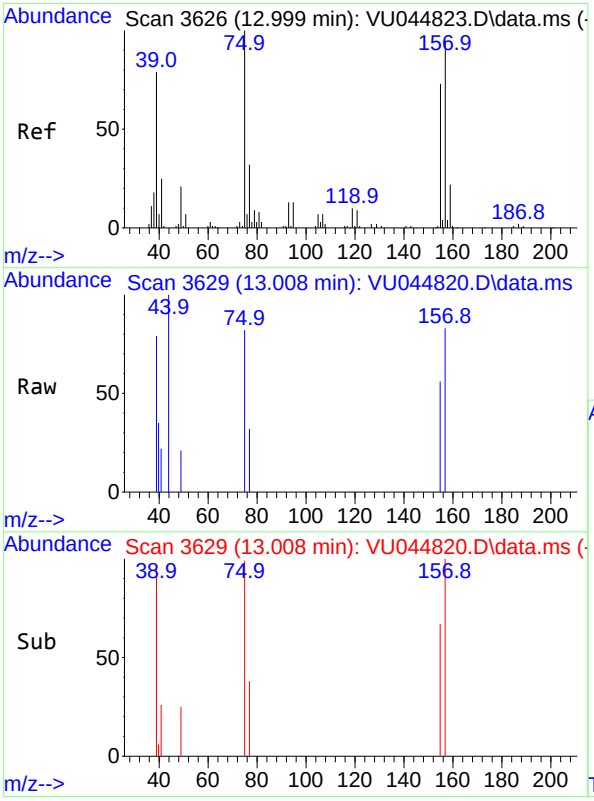


#91
1,2-Dichlorobenzene
Concen: 1.123 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:146 Resp: 3919

Ion	Ratio	Lower	Upper
146	100		
111	37.3	21.4	64.3
148	55.7	31.8	95.3

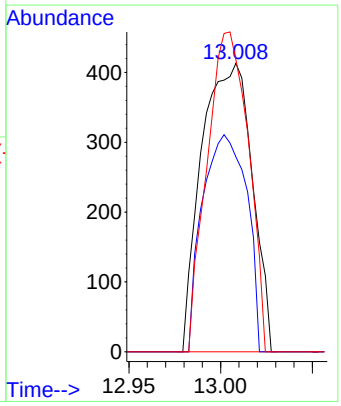




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.107 ug/l
RT: 13.008 min Scan# 3629
Delta R.T. 0.010 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

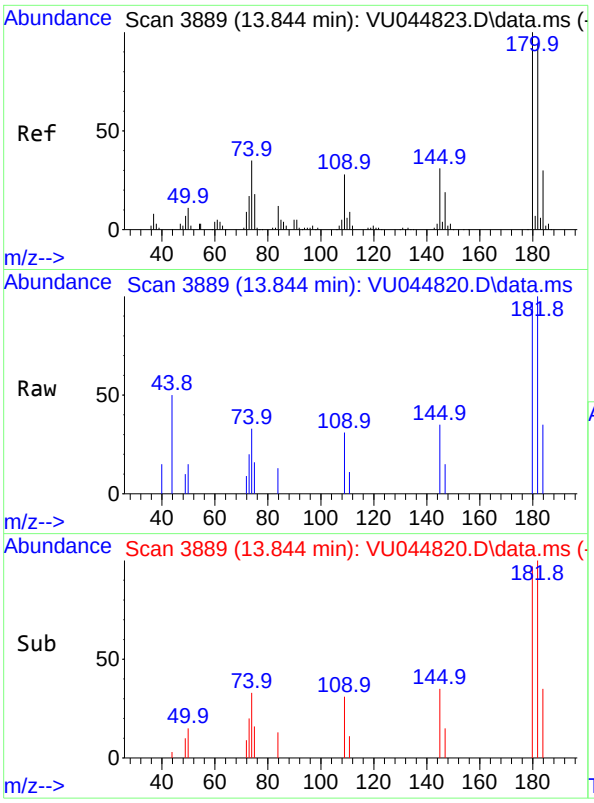
Tgt Ion: 75 Resp: 790

Ion	Ratio	Lower	Upper
75	100		
155	65.9	36.9	110.6
157	90.9	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

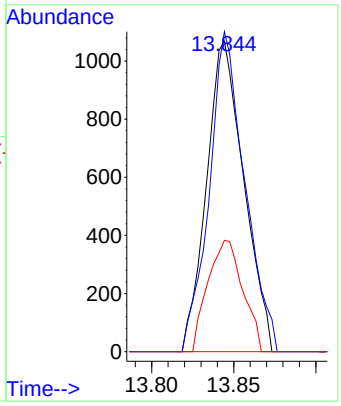
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

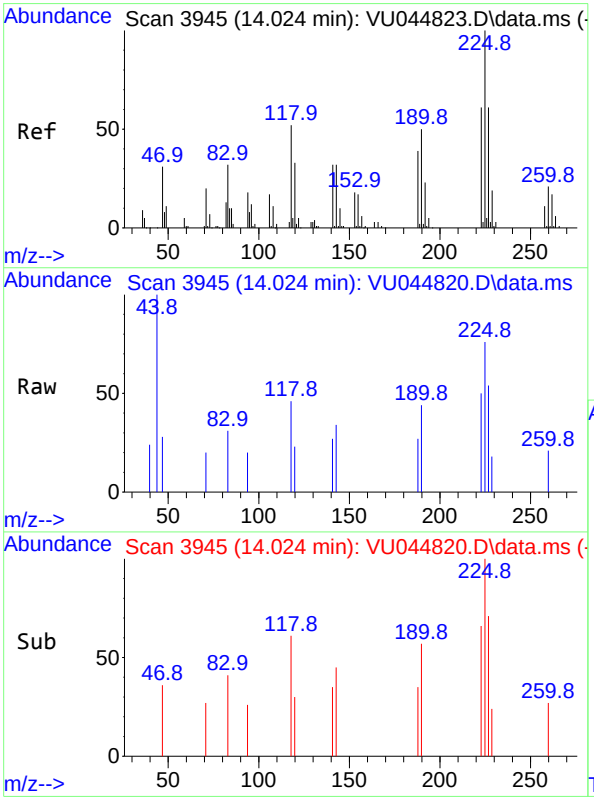


#93
1,2,4-Trichlorobenzene
Concen: 0.774 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:180 Resp: 1685

Ion	Ratio	Lower	Upper
180	100		
182	98.3	47.4	142.3
145	33.6	15.4	46.2

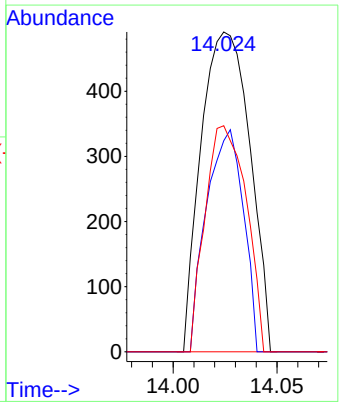




#94
Hexachlorobutadiene
Concen: 0.712 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

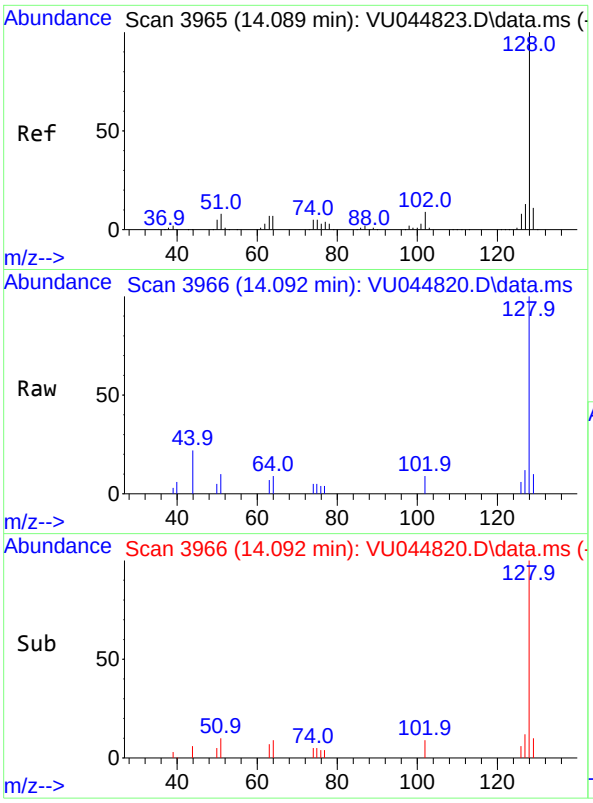
Tgt Ion:225 Resp: 803

Ion	Ratio	Lower	Upper
225	100		
223	52.4	31.1	93.3
227	59.4	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

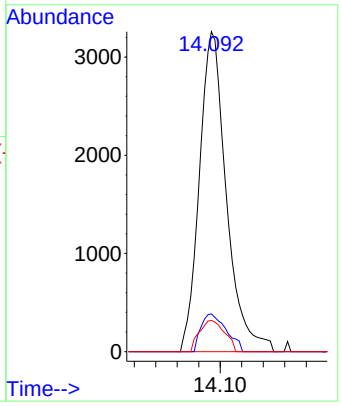
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:30 AM

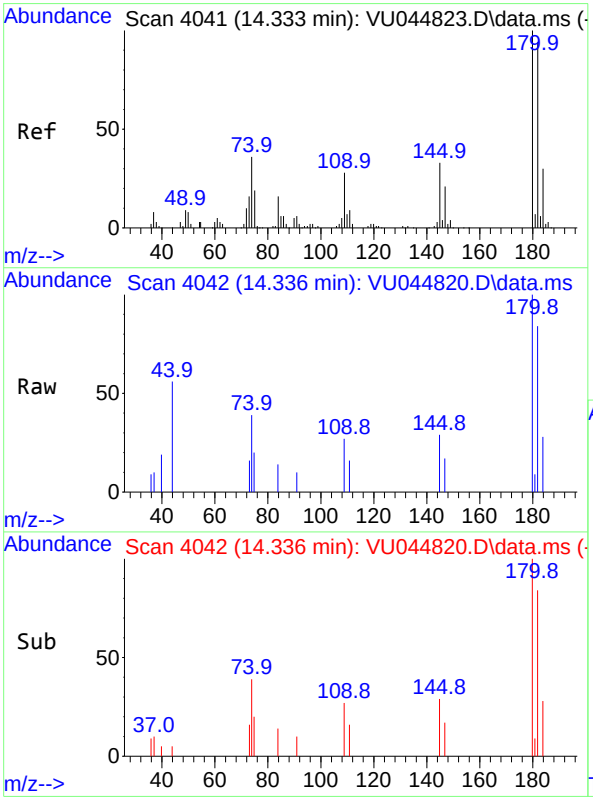


#95
Naphthalene
Concen: 0.803 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:128 Resp: 5676

Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.4	15.6
129	9.1	8.6	13.0

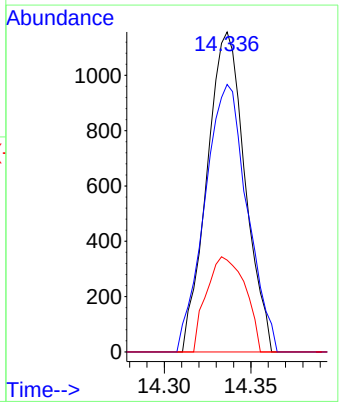




#96
1,2,3-Trichlorobenzene
Concen: 0.827 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. 0.003 min
Lab File: VU044820.D
Acq: 24 Sep 2021 19:19

Tgt Ion:180 Resp: 1765

Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.1	141.4
145	30.1	16.4	49.2



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044821.D
Acq On : 24 Sep 2021 20:06
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 25 00:58:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICC005

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:35 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	150227	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	271357	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	256702	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	121817	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	13336	5.456	ug/l	0.00
Spiked Amount 50.000			Recovery =	10.920%		
35) Dibromofluoromethane	5.292	113	9368	4.977	ug/l	0.00
Spiked Amount 50.000			Recovery =	9.960%		
50) Toluene-d8	7.902	98	33058	4.575	ug/l	0.00
Spiked Amount 50.000			Recovery =	9.140%		
62) 4-Bromofluorobenzene	10.636	95	11473	4.031	ug/l	0.00
Spiked Amount 50.000			Recovery =	8.060%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	8135	3.899	ug/l	99
3) Chloromethane	1.520	50	13406	4.748	ug/l	99
4) Vinyl Chloride	1.607	62	12760	4.994	ug/l	97
5) Bromomethane	1.838	94	8160	7.676	ug/l	98
6) Chloroethane	1.925	64	8725	5.302	ug/l	99
7) Trichlorofluoromethane	2.134	101	16161	5.241	ug/l	96
8) Diethyl Ether	2.379	74	7444	5.776	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.581	101	9334	4.989	ug/l	98
10) Methyl Iodide	2.726	142	8479	4.014	ug/l	97
11) Tert butyl alcohol	3.192	59	22270	33.245	ug/l #	94
12) 1,1-Dichloroethene	2.581	96	8819	4.747	ug/l	99
13) Acrolein	2.488	56	7085	20.456	ug/l	91
14) Allyl chloride	2.925	41	17193	4.925	ug/l	99
15) Acrylonitrile	3.317	53	40399	29.242	ug/l	99
16) Acetone	2.629	43	37843	26.327	ug/l	99
17) Carbon Disulfide	2.793	76	24909	4.252	ug/l	98
18) Methyl Acetate	2.951	43	25633	7.569	ug/l	97
19) Methyl tert-butyl Ether	3.369	73	31944	5.446	ug/l	99
20) Methylene Chloride	3.051	84	12072	4.950	ug/l	94
21) trans-1,2-Dichloroethene	3.356	96	9626	4.714	ug/l	94
22) Diisopropyl ether	3.996	45	33510	5.453	ug/l #	85
23) Vinyl Acetate	3.961	43	130812	23.031	ug/l	99
24) 1,1-Dichloroethane	3.870	63	20321	5.076	ug/l	98
25) 2-Butanone	4.710	43	54040	26.294	ug/l	99
26) 2,2-Dichloropropane	4.671	77	14506	4.635	ug/l	98
27) cis-1,2-Dichloroethene	4.674	96	11362	4.928	ug/l	97
28) Bromochloromethane	4.980	49	9909	5.203	ug/l #	99
29) Tetrahydrofuran	5.057	42	34228	29.859	ug/l	98
30) Chloroform	5.092	83	21029	5.378	ug/l	97
31) Cyclohexane	5.391	56	20939	6.035	ug/l #	85
32) 1,1,1-Trichloroethane	5.321	97	16230	5.004	ug/l	97
36) 1,1-Dichloropropene	5.533	75	14027	4.643	ug/l	99
37) Ethyl Acetate	4.809	43	20188	5.410	ug/l	98
38) Carbon Tetrachloride	5.530	117	12776	4.682	ug/l	97
39) Methylcyclohexane	6.767	83	15276	4.674	ug/l	93
40) Benzene	5.777	78	43876	4.894	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044821.D
Acq On : 24 Sep 2021 20:06
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:35 AM

Quant Time: Sep 25 00:58:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.977	41	9964	5.233	ug/l		98
42) 1,2-Dichloroethane	5.796	62	17826	5.527	ug/l		99
43) Isopropyl Acetate	5.915	43	28945	5.489	ug/l		97
44) Trichloroethene	6.546	130	10107	4.883	ug/l		99
45) 1,2-Dichloropropane	6.793	63	11479	4.665	ug/l		89
46) Dibromomethane	6.922	93	8089	5.109	ug/l		99
47) Bromodichloromethane	7.112	83	14827	4.766	ug/l		95
48) Methyl methacrylate	6.964	41	12904	5.037	ug/l		97
49) 1,4-Dioxane	6.970	88	6376	95.481	ug/l		94
51) 4-Methyl-2-Pentanone	7.796	43	99235	26.093	ug/l		99
52) Toluene	7.973	92	25822	4.863	ug/l		98
53) t-1,3-Dichloropropene	8.214	75	14634	4.333	ug/l		97
54) cis-1,3-Dichloropropene	7.613	75	16235	4.459	ug/l		98
55) 1,1,2-Trichloroethane	8.404	97	11568	5.160	ug/l		99
56) Ethyl methacrylate	8.337	69	15103	4.406	ug/l		95
57) 1,3-Dichloropropane	8.581	76	19749	4.960	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.468	63	15934	15.790	ug/l		99
59) 2-Hexanone	8.687	43	78089	25.694	ug/l		96
60) Dibromochloromethane	8.816	129	10033	4.529	ug/l		99
61) 1,2-Dibromoethane	8.928	107	11784	4.998	ug/l		97
64) Tetrachloroethene	8.558	164	8968	5.041	ug/l		97
65) Chlorobenzene	9.449	112	26021	4.726	ug/l		97
66) 1,1,1,2-Tetrachloroethane	9.539	131	9382	4.871	ug/l		98
67) Ethyl Benzene	9.574	91	44895	4.551	ug/l		99
68) m/p-Xylenes	9.697	106	33441	9.049	ug/l		98
69) o-Xylene	10.105	106	16136	4.590	ug/l		96
70) Styrene	10.118	104	25967	4.266	ug/l		99
71) Bromoform	10.295	173	7056	4.343	ug/l	#	97
73) Isopropylbenzene	10.488	105	42028	5.089	ug/l		98
74) N-amyl acetate	10.324	43	19583	5.130	ug/l		97
75) 1,1,2,2-Tetrachloroethane	10.787	83	20168	5.584	ug/l		99
76) 1,2,3-Trichloropropane	10.828	75	18508m	4.619	ug/l		
77) Bromobenzene	10.787	156	10095	4.873	ug/l		95
78) n-propylbenzene	10.909	91	49911	4.671	ug/l		98
79) 2-Chlorotoluene	10.989	91	32032	5.052	ug/l		99
80) 1,3,5-Trimethylbenzene	11.092	105	34368	4.709	ug/l		99
81) trans-1,4-Dichloro-2-b...	10.552	75	4791	4.235	ug/l		90
82) 4-Chlorotoluene	11.102	91	35404	4.754	ug/l		98
83) tert-Butylbenzene	11.423	119	33949	4.943	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	33544	4.593	ug/l		98
85) sec-Butylbenzene	11.648	105	43028	4.752	ug/l		100
86) p-Isopropyltoluene	11.796	119	34263	4.475	ug/l		98
87) 1,3-Dichlorobenzene	11.748	146	20014	4.952	ug/l		99
88) 1,4-Dichlorobenzene	11.838	146	20758	4.830	ug/l		94
89) n-Butylbenzene	12.211	91	29263	3.792	ug/l		99
90) Hexachloroethane	12.478	117	6443	5.211	ug/l		93
91) 1,2-Dichlorobenzene	12.217	146	20488	5.003	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	13.002	75	4355	5.200	ug/l		97
93) 1,2,4-Trichlorobenzene	13.844	180	10111	3.960	ug/l		97
94) Hexachlorobutadiene	14.024	225	5025	3.799	ug/l		98
95) Naphthalene	14.089	128	29314	3.537	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	9891	3.948	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044821.D
Acq On : 24 Sep 2021 20:06
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 25 00:58:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044821.D
Acq On : 24 Sep 2021 20:06
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 25 00:58:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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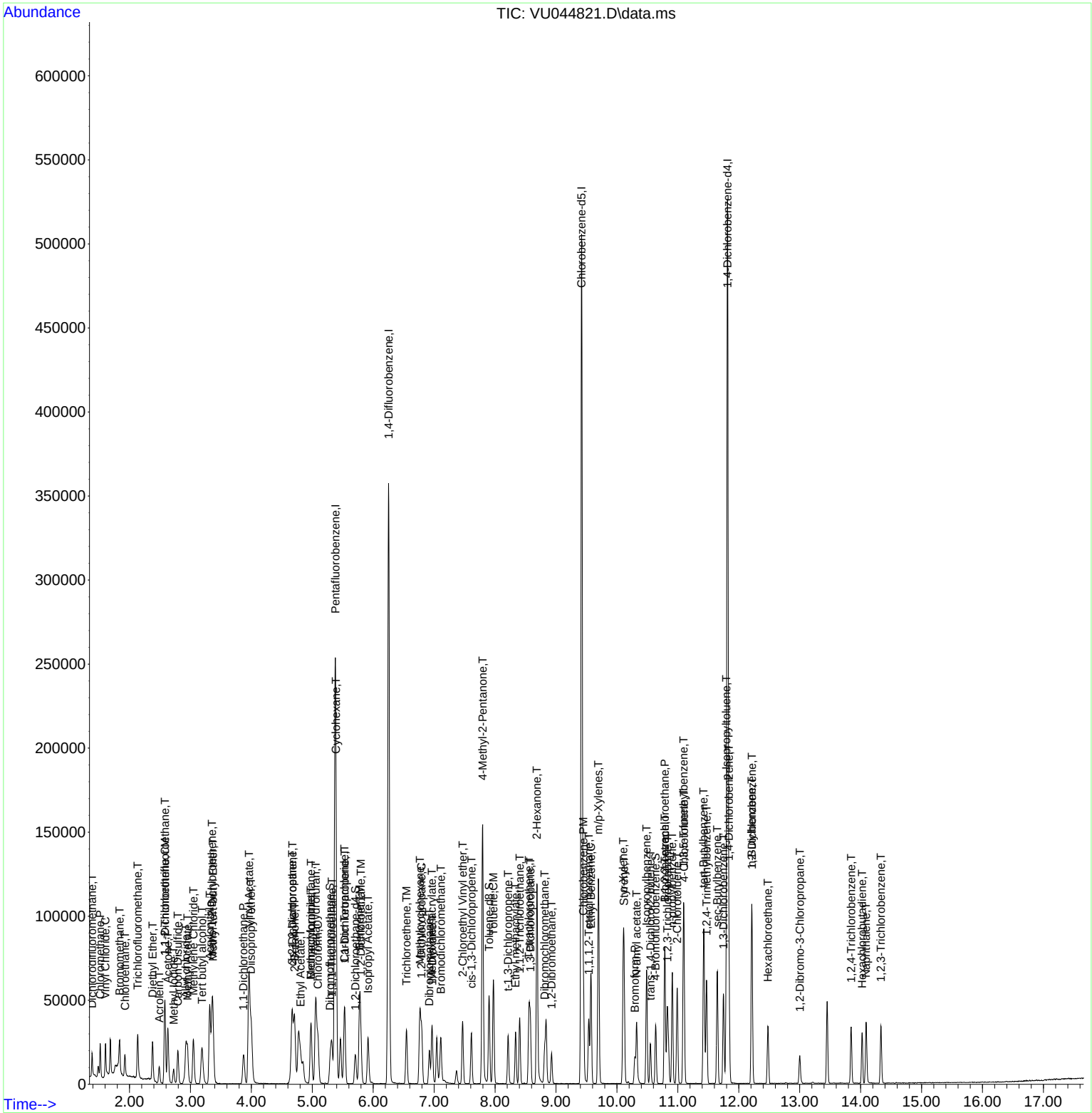

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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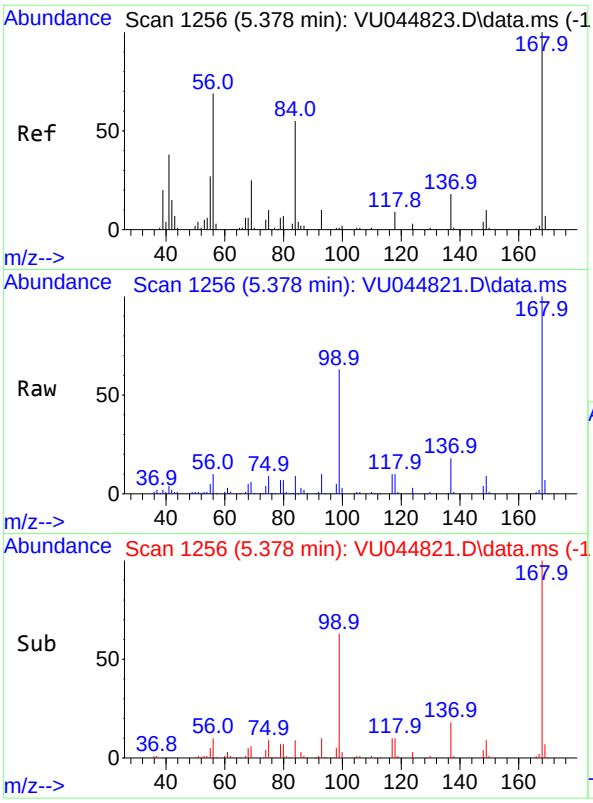
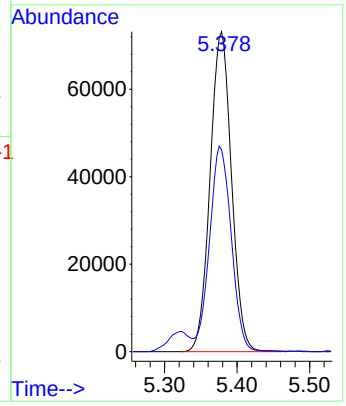
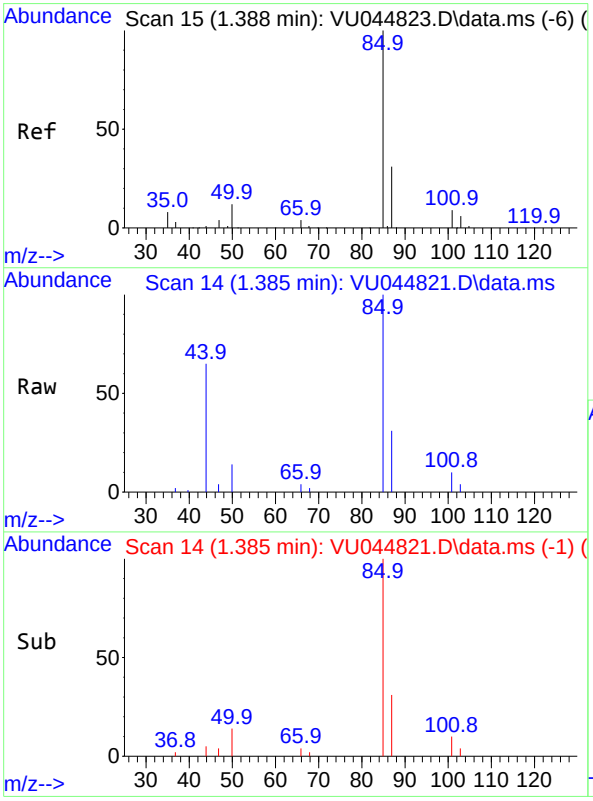


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:168 Resp: 150227

Ion	Ratio	Lower	Upper
168	100		
99	63.0	51.4	77.0

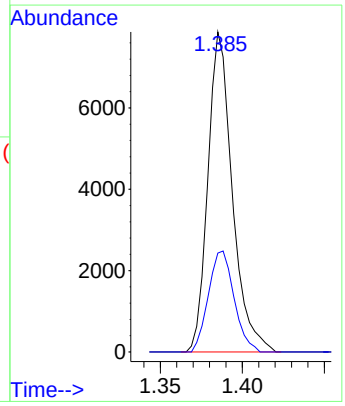




#2
Dichlorodifluoromethane
Concen: 3.899 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 85 Resp: 8135

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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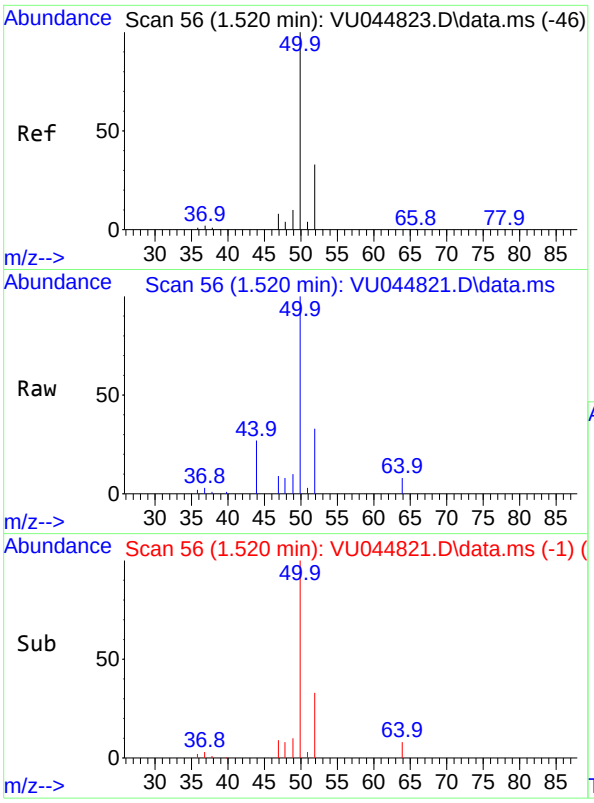
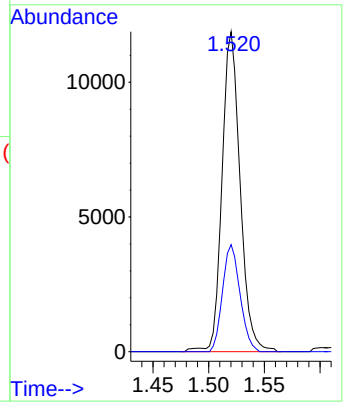
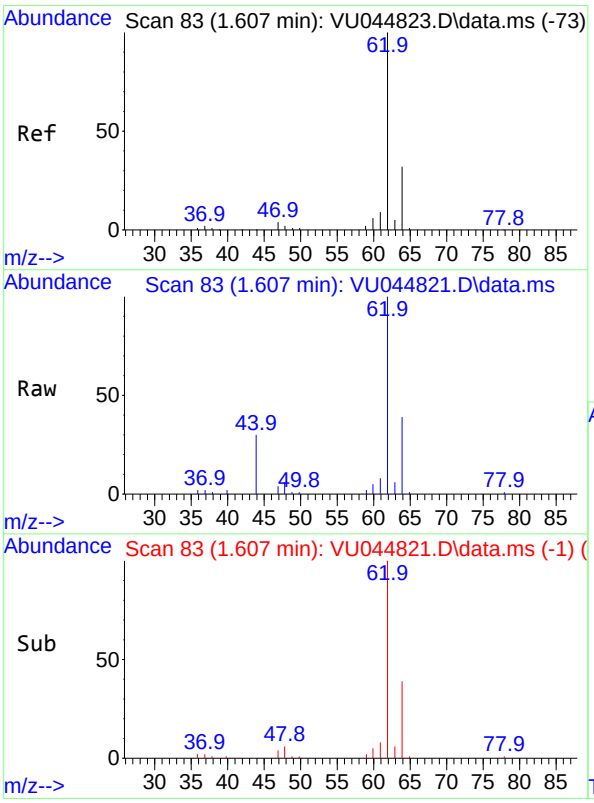


#3
Chloromethane
Concen: 4.748 ug/l
RT: 1.520 min Scan# 56
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 50 Resp: 13406

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.3	39.5

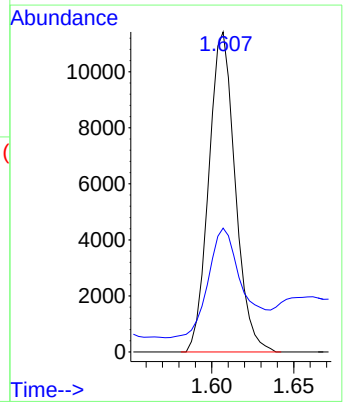




#4
Vinyl Chloride
Concen: 4.994 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 62 Resp: 12760

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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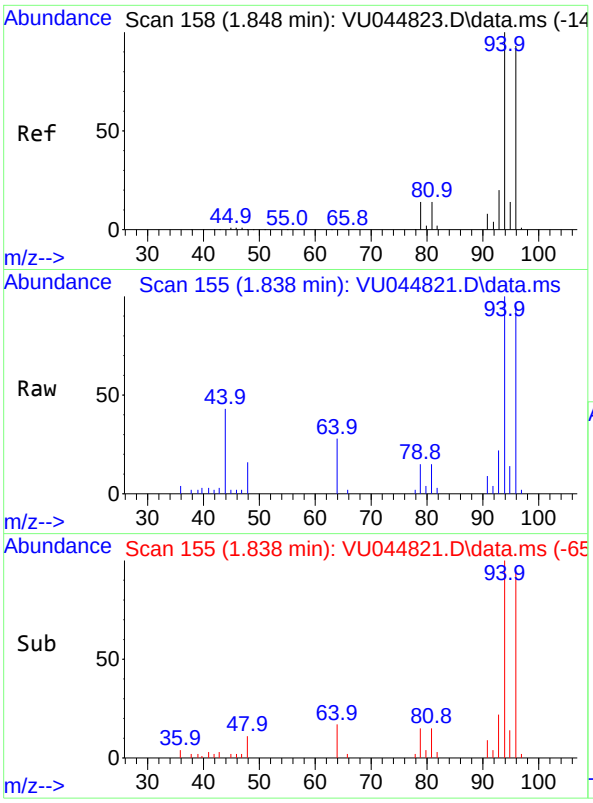
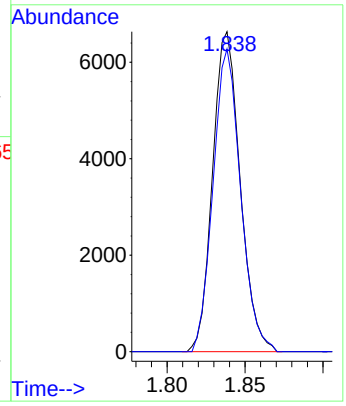
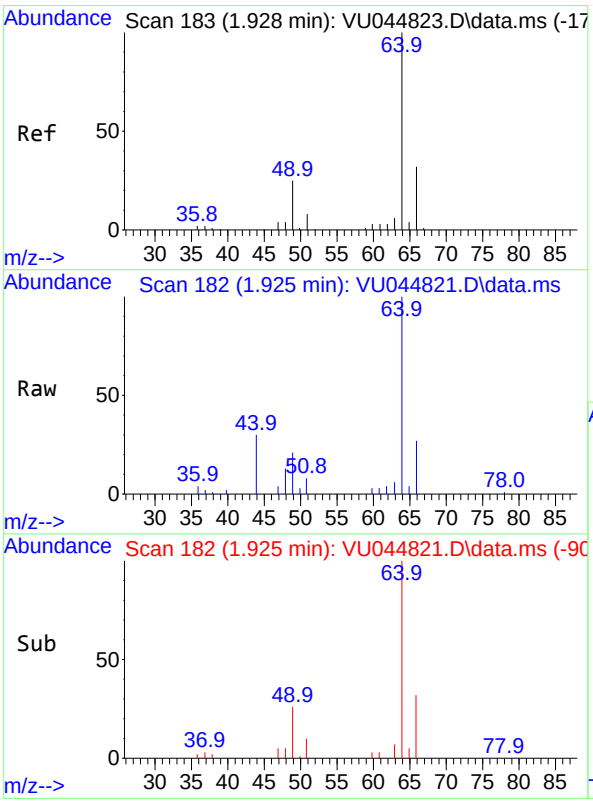


#5
Bromomethane
Concen: 7.676 ug/l
RT: 1.838 min Scan# 155
Delta R.T. -0.010 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 94 Resp: 8160

Ion	Ratio	Lower	Upper
94	100		
96	94.6	74.5	111.7

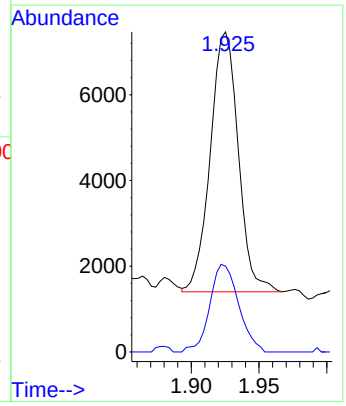




#6
Chloroethane
Concen: 5.302 ug/l
RT: 1.925 min Scan# 182
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 64 Resp: 8725

Ion	Ratio	Lower	Upper
64	100		
66	33.0	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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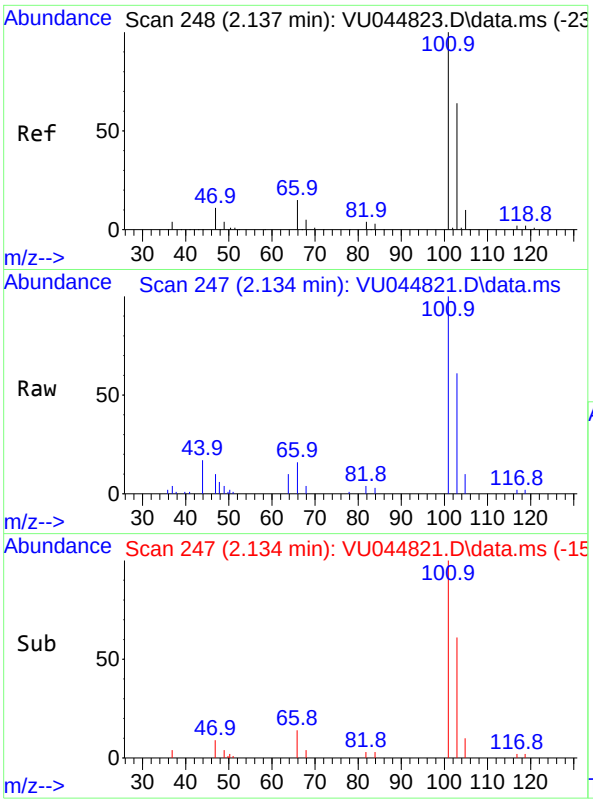
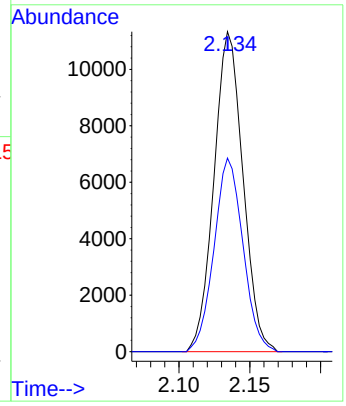
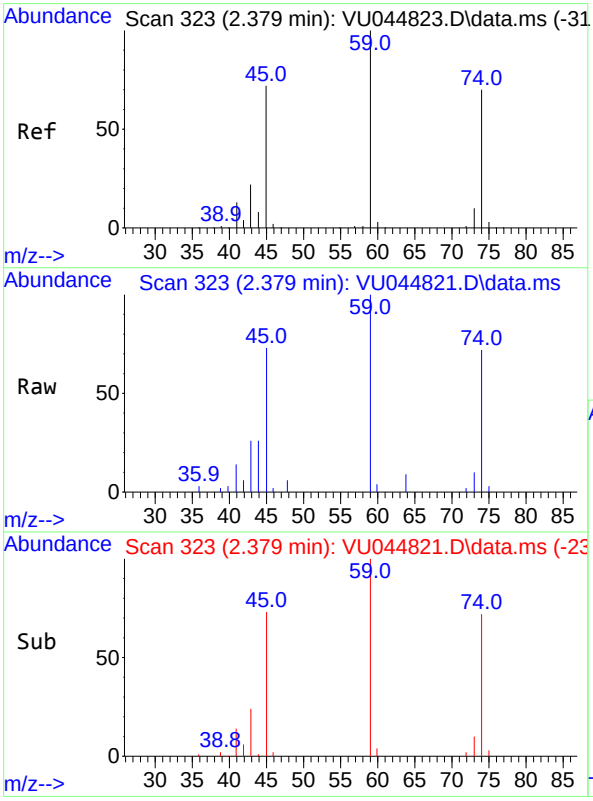


#7
Trichlorofluoromethane
Concen: 5.241 ug/l
RT: 2.134 min Scan# 247
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:101 Resp: 16161

Ion	Ratio	Lower	Upper
101	100		
103	60.5	51.2	76.8

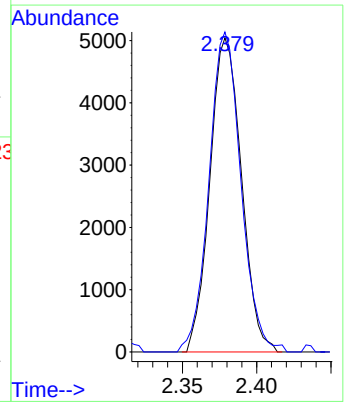




#8
Diethyl Ether
Concen: 5.776 ug/l
RT: 2.379 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 74 Resp: 7444

Ion	Ratio	Lower	Upper
74	100		
45	103.1	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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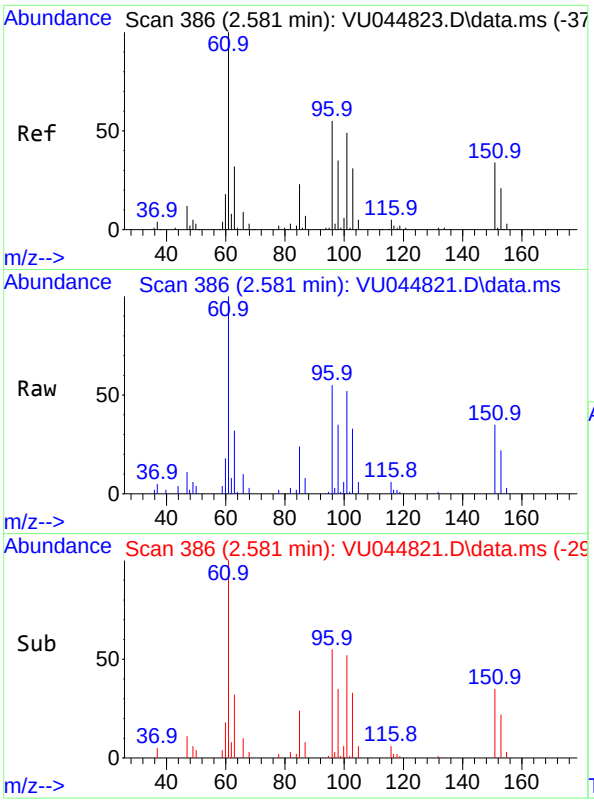
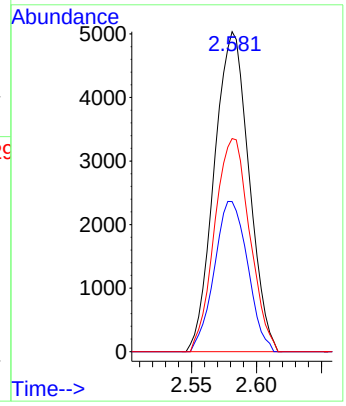
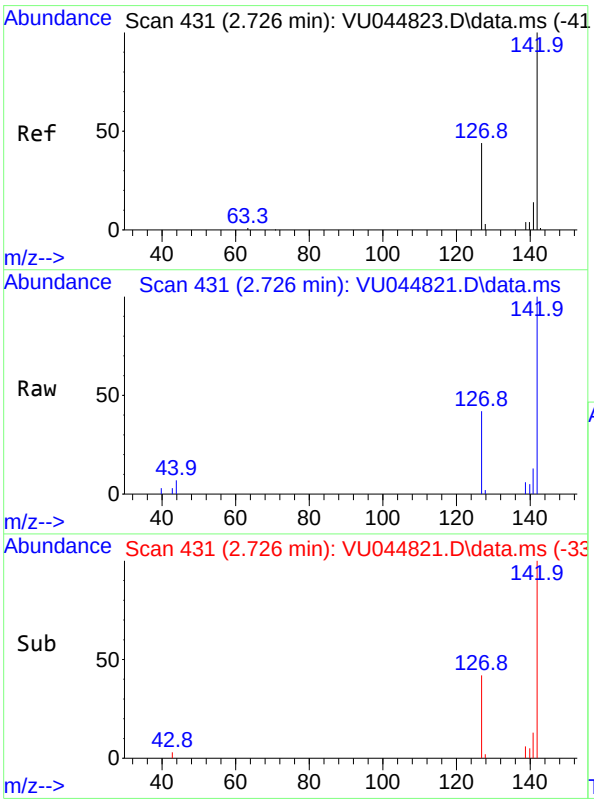


#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.989 ug/l
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:101 Resp: 9334

Ion	Ratio	Lower	Upper
101	100		
85	45.2	37.2	55.8
151	67.7	55.8	83.8

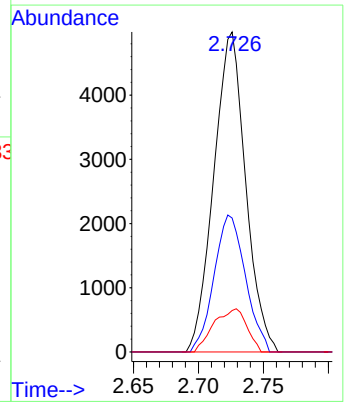




#10
Methyl Iodide
Concen: 4.014 ug/l
RT: 2.726 min Scan# 431
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:142 Resp: 8479

Ion	Ratio	Lower	Upper
142	100		
127	42.2	35.6	53.4
141	14.0	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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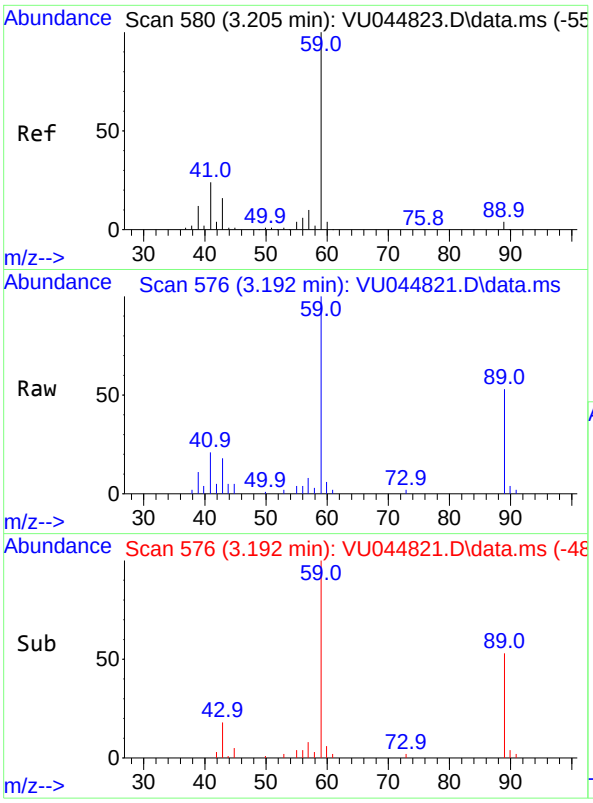
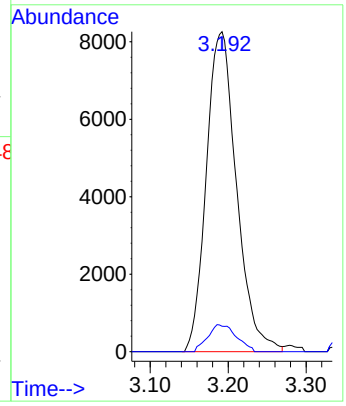
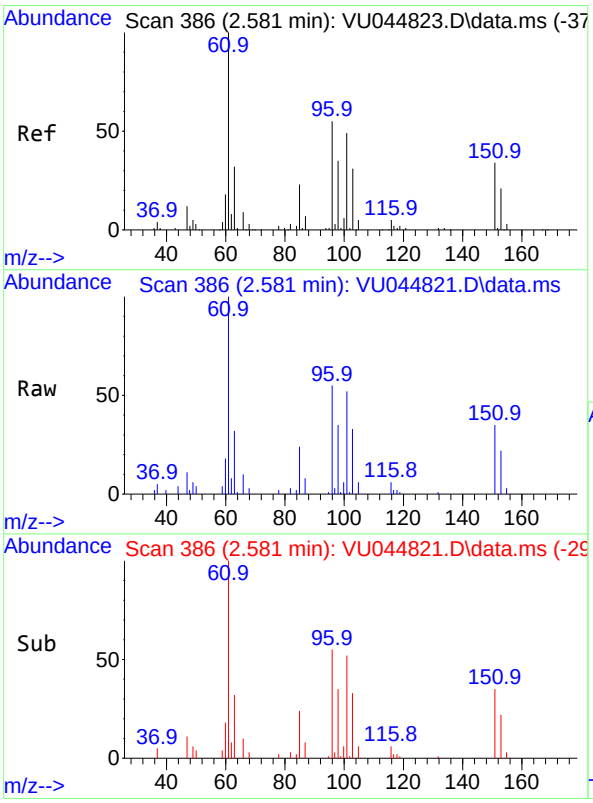


#11
Tert butyl alcohol
Concen: 33.245 ug/l
RT: 3.192 min Scan# 576
Delta R.T. -0.013 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 59 Resp: 22270

Ion	Ratio	Lower	Upper
59	100		
57	8.0	8.3	12.5#

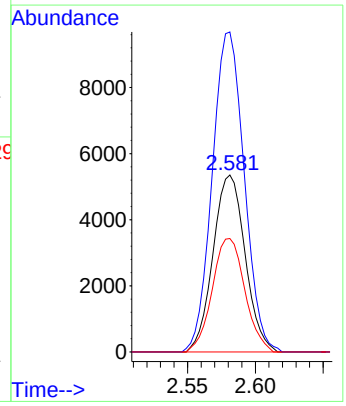




#12
1,1-Dichloroethene
Concen: 4.747 ug/l
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 96 Resp: 8819

Ion	Ratio	Lower	Upper
96	100		
61	180.9	145.4	218.0
98	64.1	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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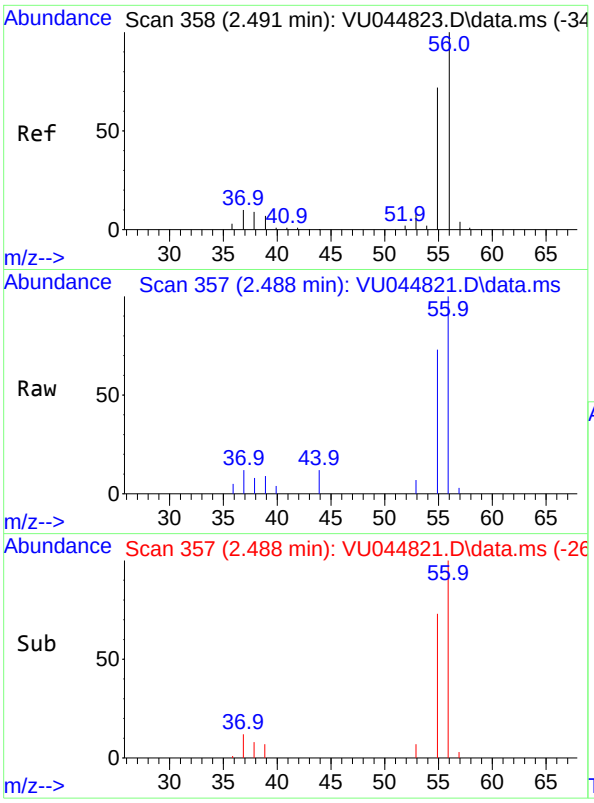
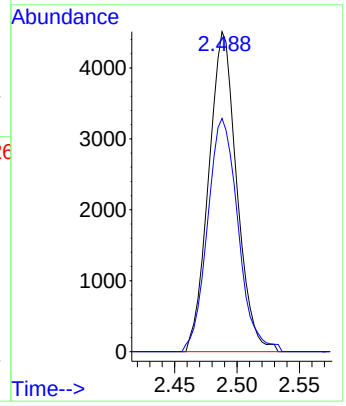
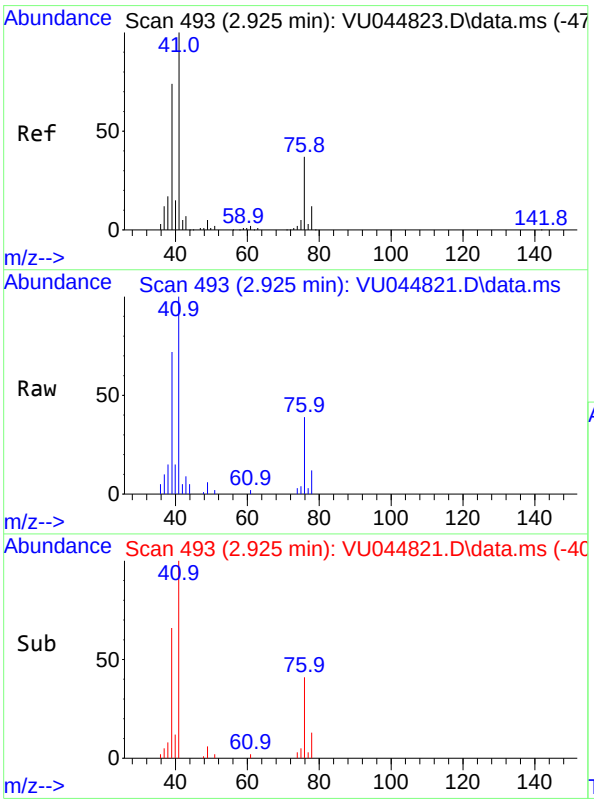


#13
Acrolein
Concen: 20.456 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 56 Resp: 7085

Ion	Ratio	Lower	Upper
56	100		
55	79.2	57.4	86.0

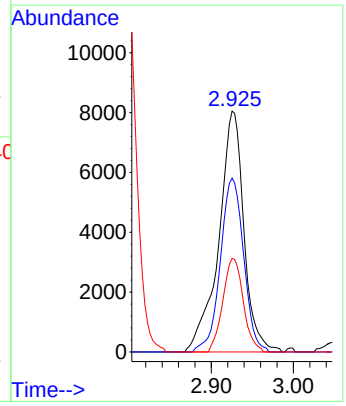




#14
Allyl chloride
Concen: 4.925 ug/l
RT: 2.925 min Scan# 493
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 41 Resp: 17193

Ion	Ratio	Lower	Upper
41	100		
39	66.6	53.0	79.6
76	31.6	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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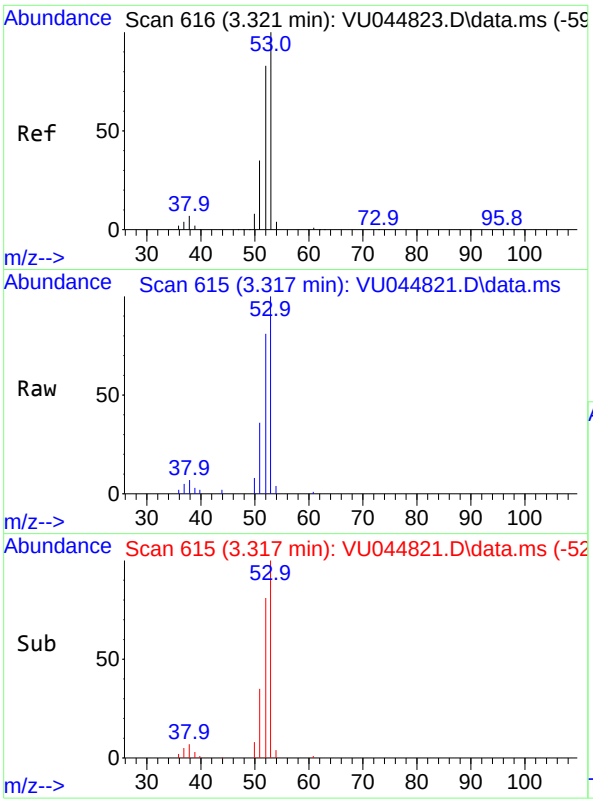
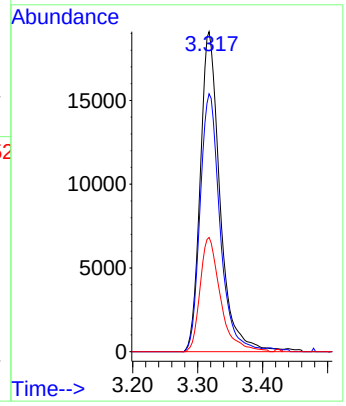
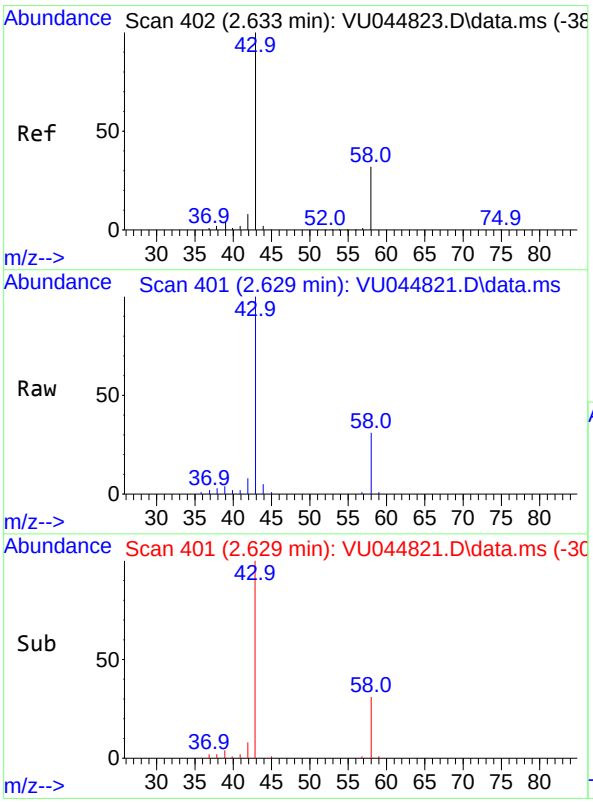


#15
Acrylonitrile
Concen: 29.242 ug/l
RT: 3.317 min Scan# 615
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 53 Resp: 40399

Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.0	99.0
51	36.8	28.6	42.8

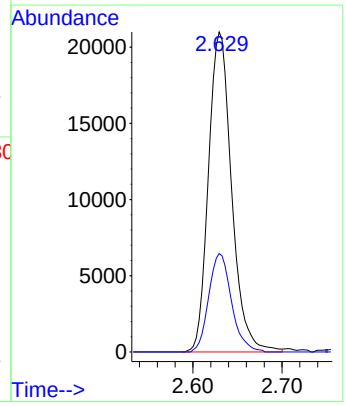




#16
Acetone
Concen: 26.327 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 37843

Ion	Ratio	Lower	Upper
43	100		
58	30.7	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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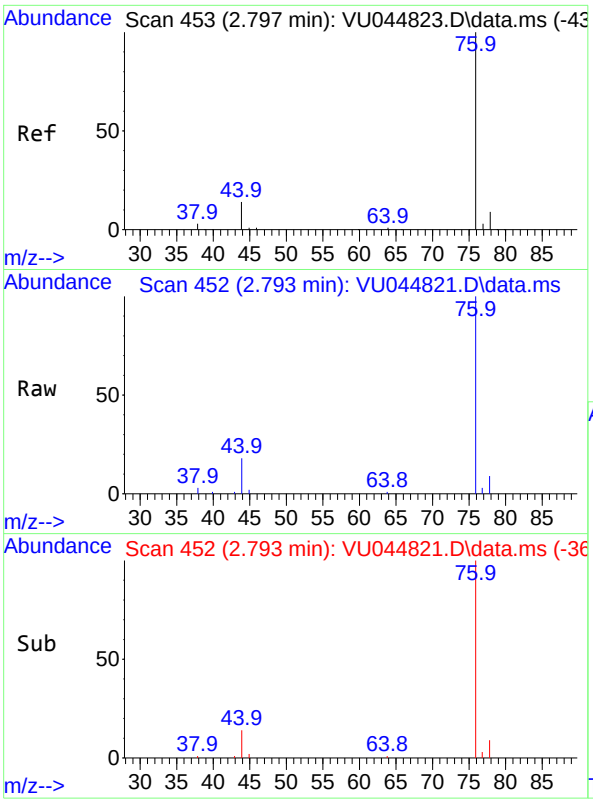
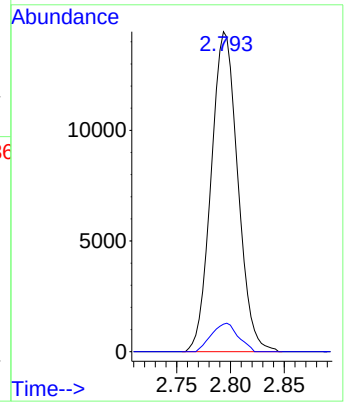
9/27/2021 11:02:35 AM

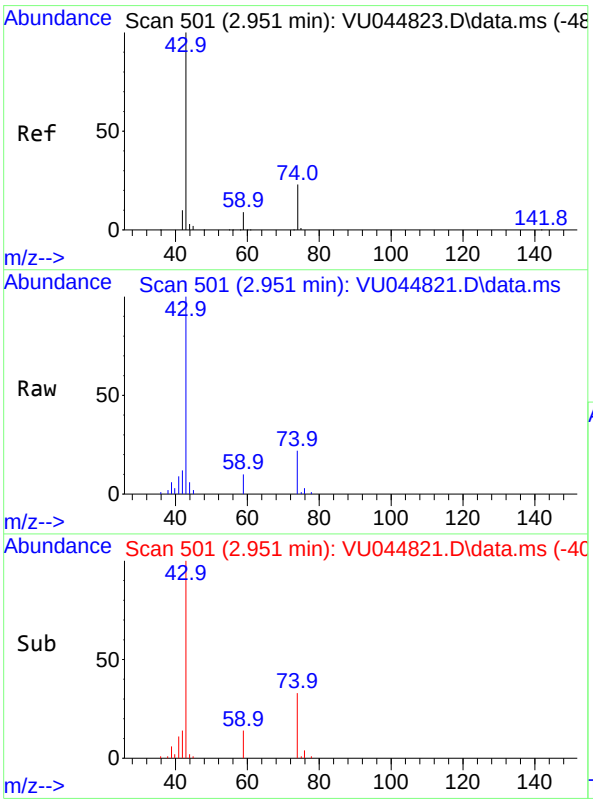


#17
Carbon Disulfide
Concen: 4.252 ug/l
RT: 2.793 min Scan# 452
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 76 Resp: 24909

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0

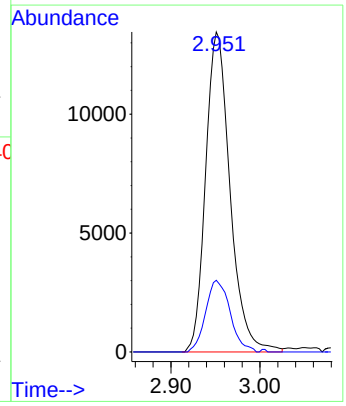




#18
Methyl Acetate
Concen: 7.569 ug/l
RT: 2.951 min Scan# 501
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 25633

Ion	Ratio	Lower	Upper
43	100		
74	22.4	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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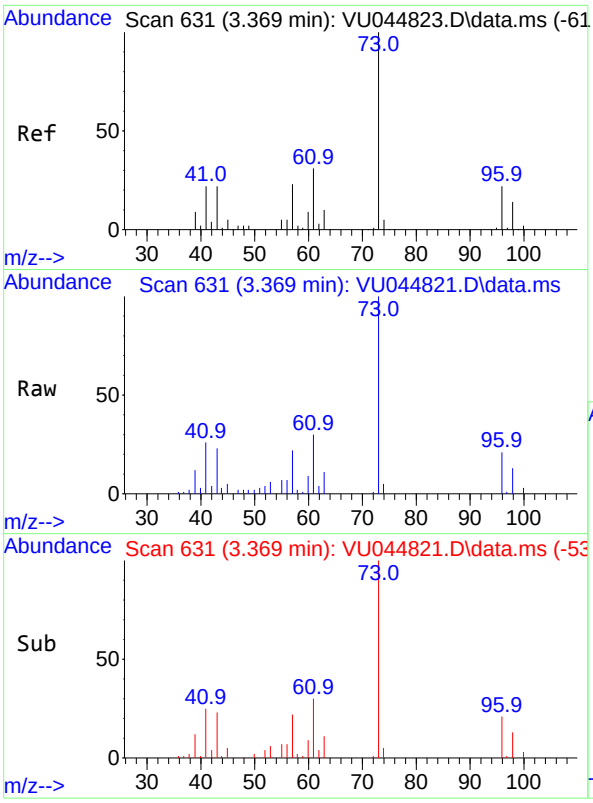
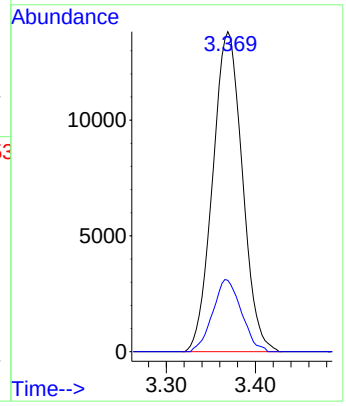
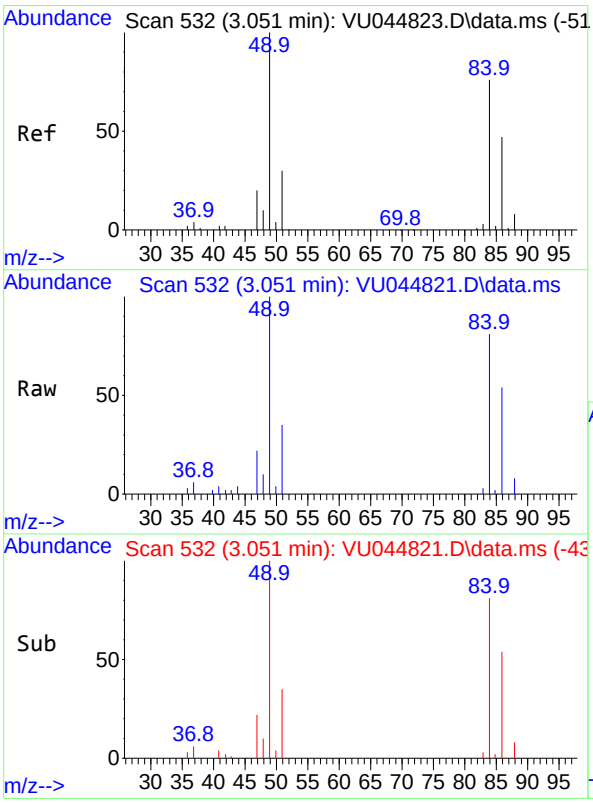


#19
Methyl tert-butyl Ether
Concen: 5.446 ug/l
RT: 3.369 min Scan# 631
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 73 Resp: 31944

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.2	27.2

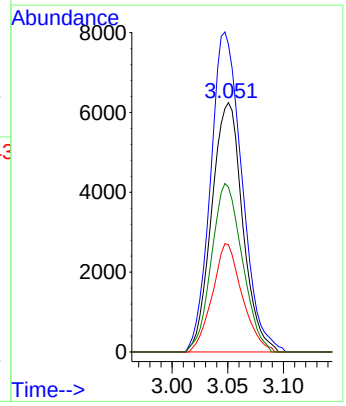




#20
Methylene Chloride
Concen: 4.950 ug/l
RT: 3.051 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 84 Resp: 12072

Ion	Ratio	Lower	Upper
84	100		
49	123.4	104.9	157.3
51	43.0	31.8	47.8
86	66.1	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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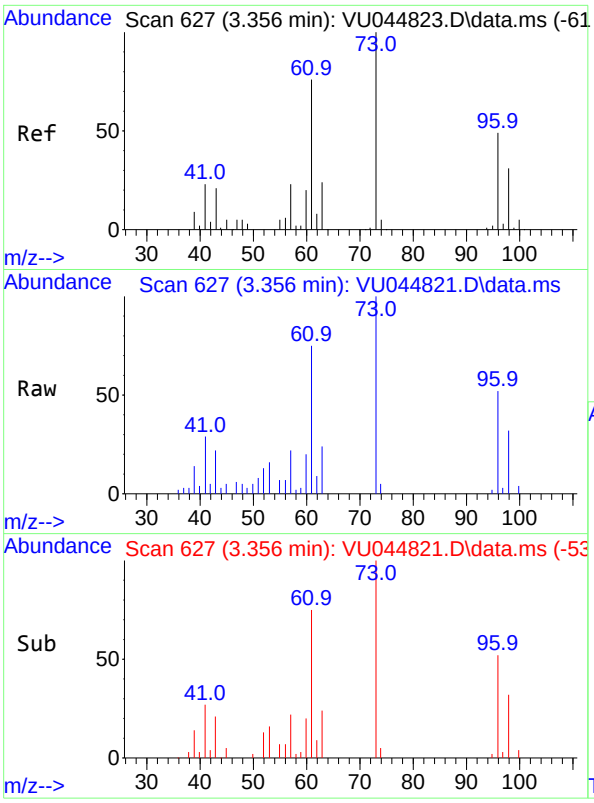
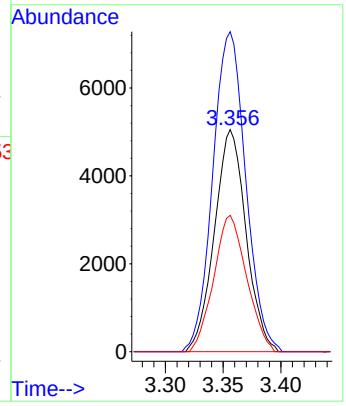
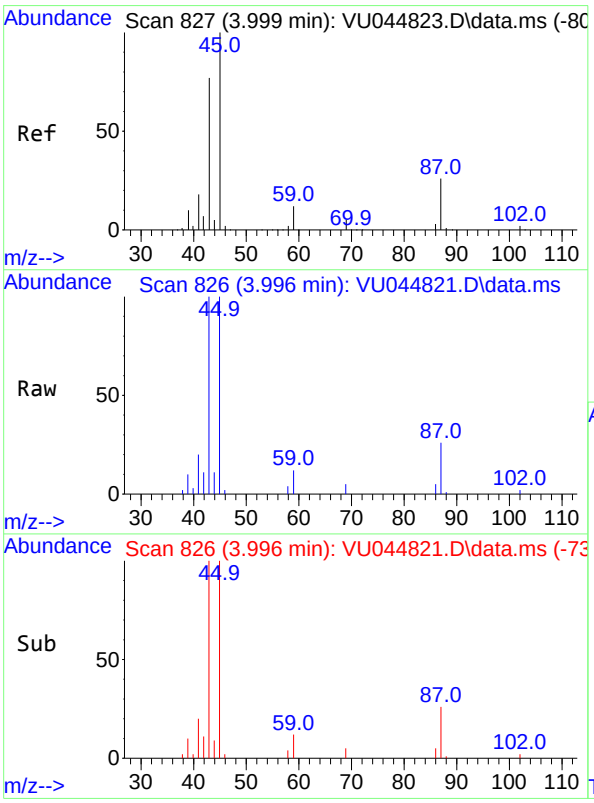


#21
trans-1,2-Dichloroethene
Concen: 4.714 ug/l
RT: 3.356 min Scan# 627
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 96 Resp: 9626

Ion	Ratio	Lower	Upper
96	100		
61	144.1	123.2	184.8
98	61.3	51.0	76.6

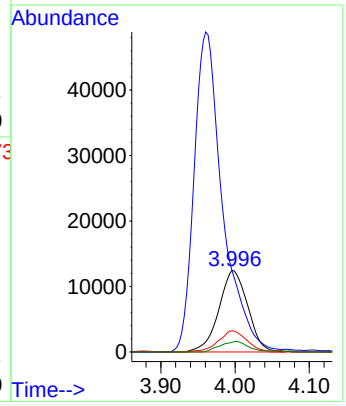




#22
Diisopropyl ether
Concen: 5.453 ug/l
RT: 3.996 min Scan# 826
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 45 Resp: 33510

Ion	Ratio	Lower	Upper
45	100		
43	96.9	62.3	93.5#
87	25.9	21.0	31.4
59	11.8	9.5	14.3



Instrument :
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VSTDICC005

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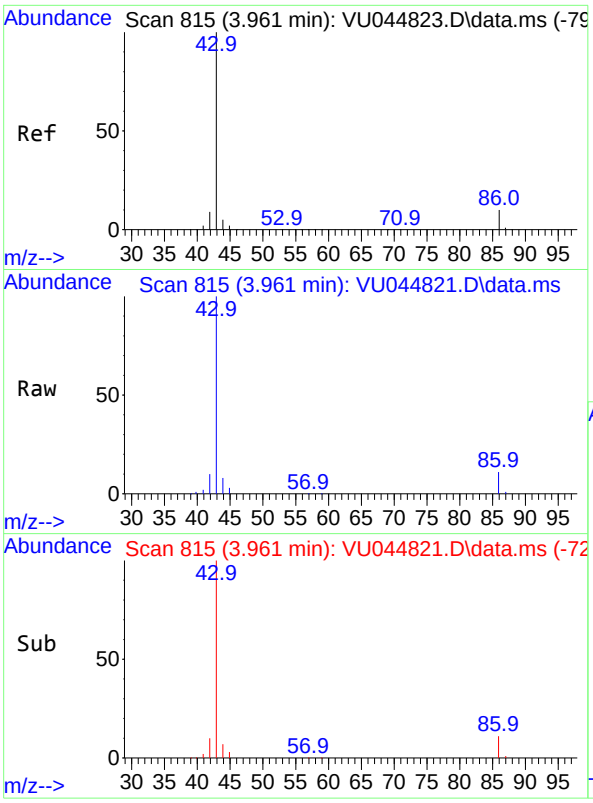
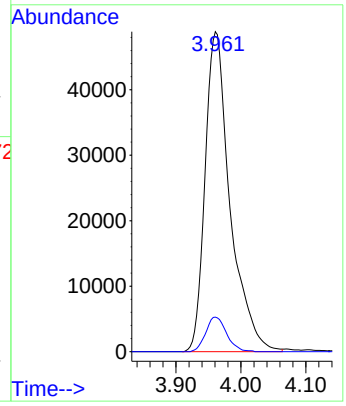
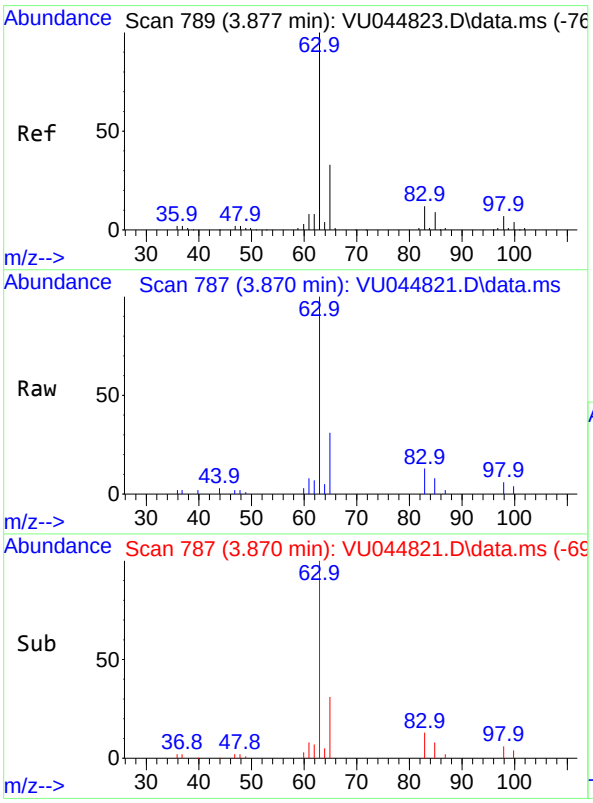


#23
Vinyl Acetate
Concen: 23.031 ug/l
RT: 3.961 min Scan# 815
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 130812

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.4

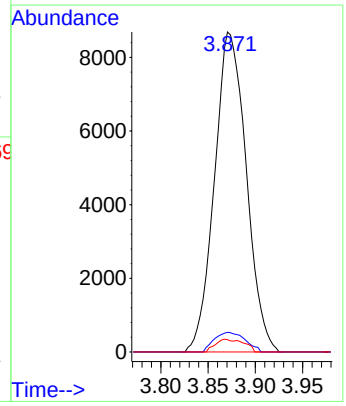




#24
1,1-Dichloroethane
Concen: 5.076 ug/l
RT: 3.870 min Scan# 787
Delta R.T. -0.006 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 63 Resp: 20321

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.5	10.4
100	3.8	2.1	6.3



Instrument :
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ClientSampleId :
VSTDICC005

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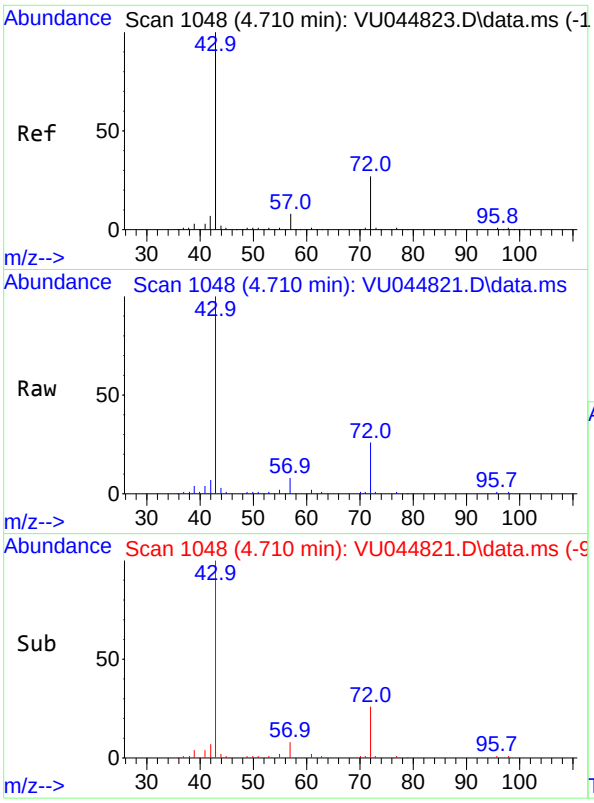
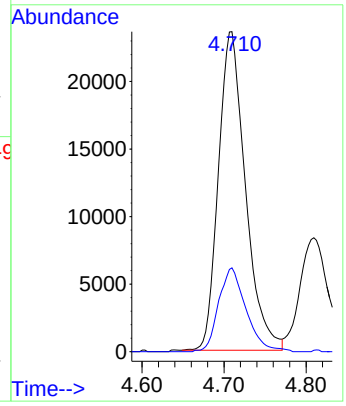
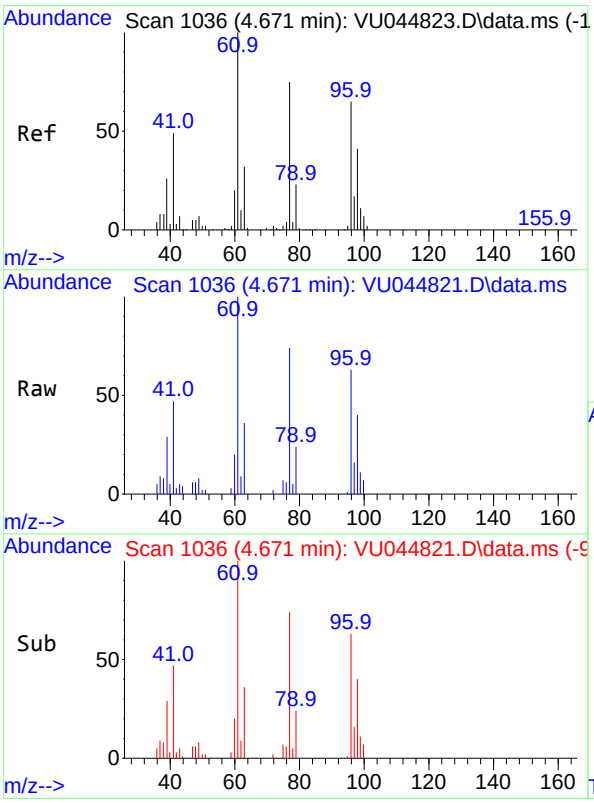


#25
2-Butanone
Concen: 26.294 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 54040

Ion	Ratio	Lower	Upper
43	100		
72	26.3	21.3	31.9

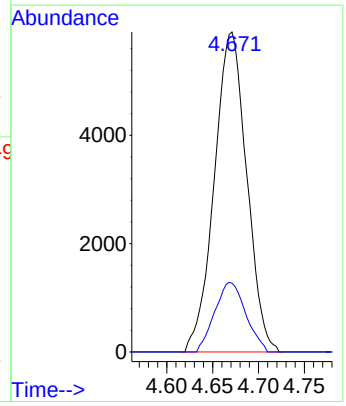




#26
2,2-Dichloropropane
Concen: 4.635 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 77 Resp: 14506

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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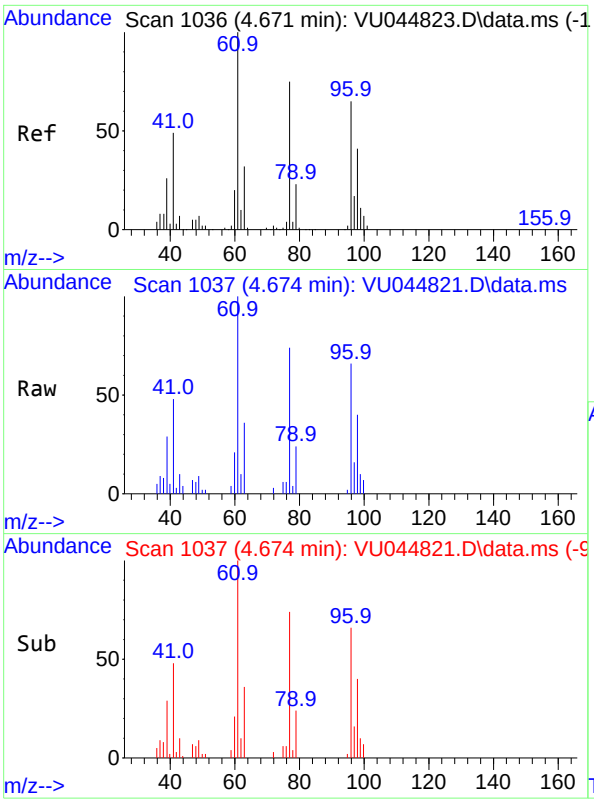
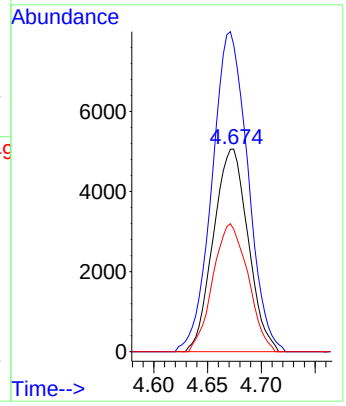
9/27/2021 11:02:35 AM

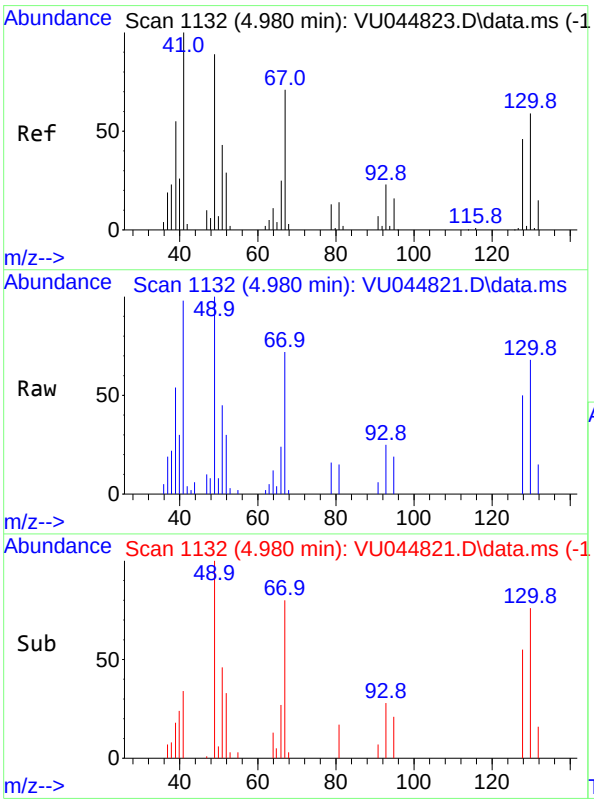


#27
cis-1,2-Dichloroethene
Concen: 4.928 ug/l
RT: 4.674 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 96 Resp: 11362

Ion	Ratio	Lower	Upper
96	100		
61	162.9	0.0	313.4
98	63.6	0.0	127.0

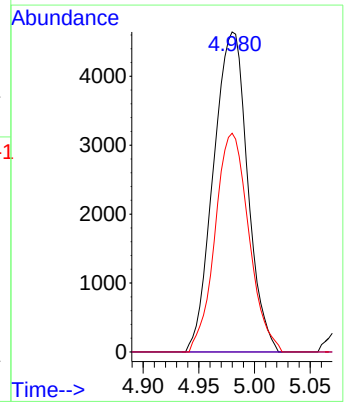




#28
Bromochloromethane
Concen: 5.203 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 49 Resp: 9909

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	67.6	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
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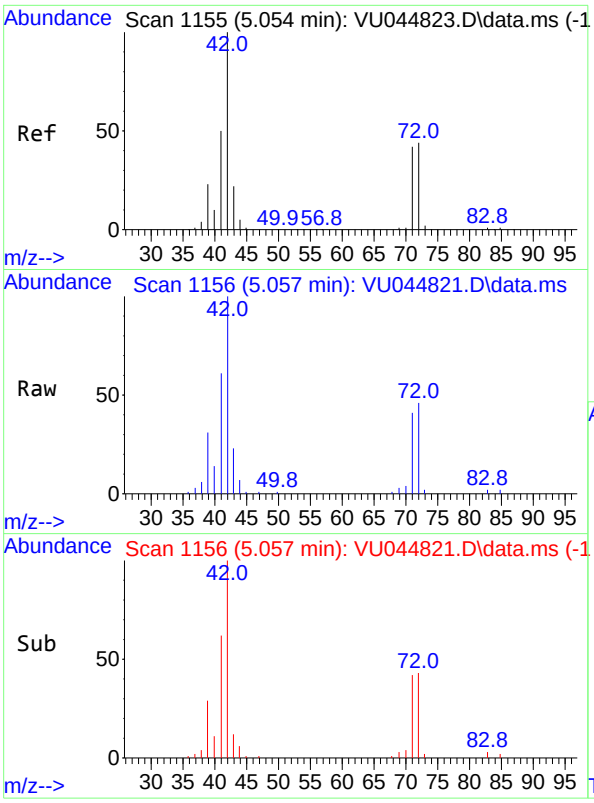
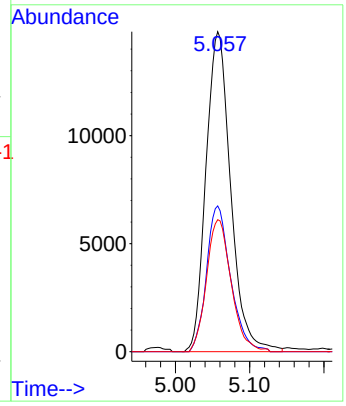
9/27/2021 11:02:35 AM

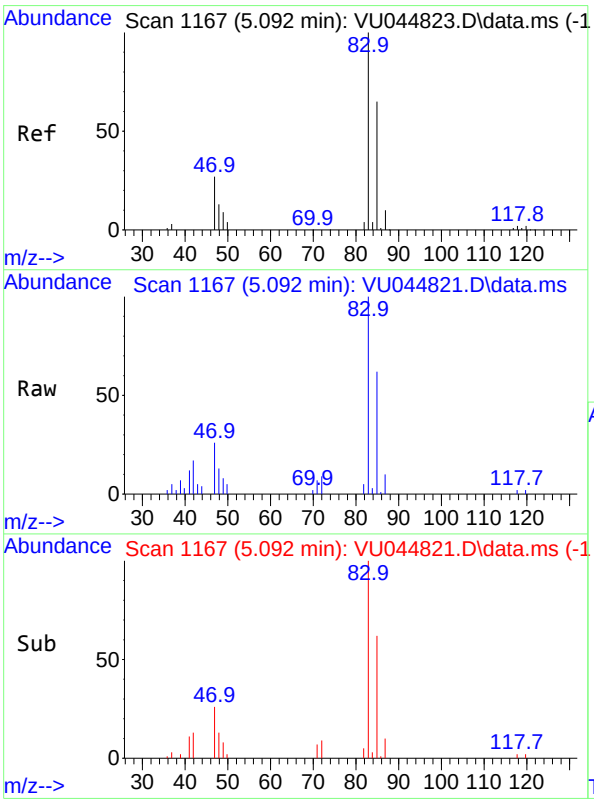


#29
Tetrahydrofuran
Concen: 29.859 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 42 Resp: 34228

Ion	Ratio	Lower	Upper
42	100		
72	44.5	36.2	54.4
71	41.3	34.1	51.1

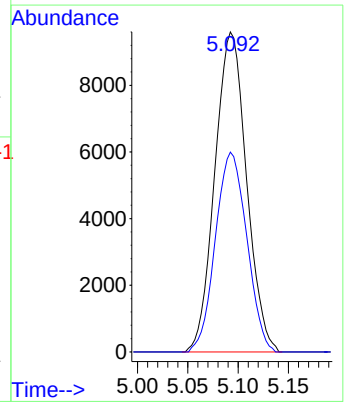




#30
Chloroform
Concen: 5.378 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 83 Resp: 21029

Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.1	78.1



Instrument :
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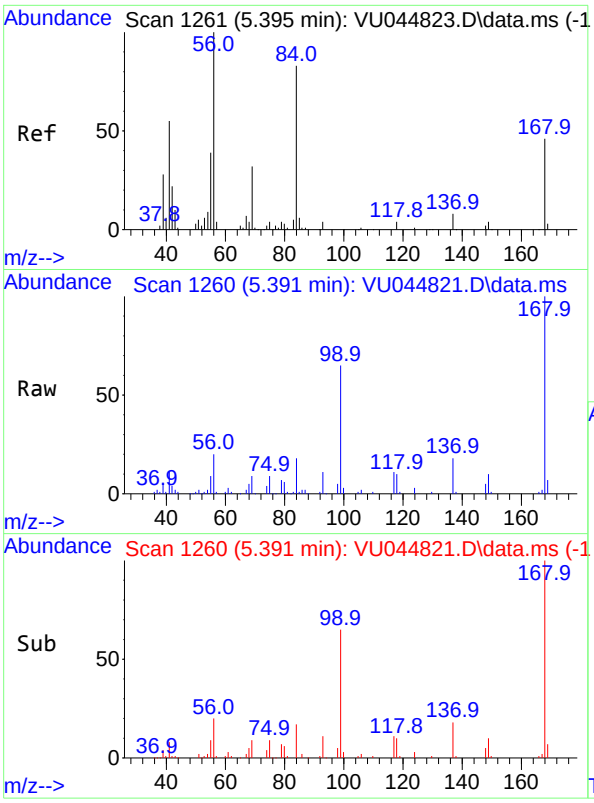
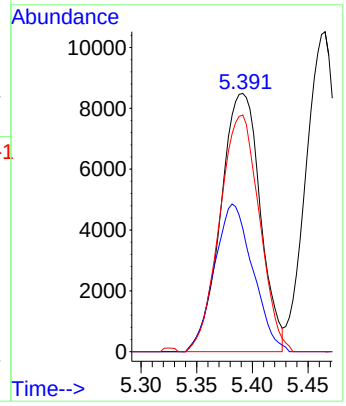
9/27/2021 11:02:35 AM

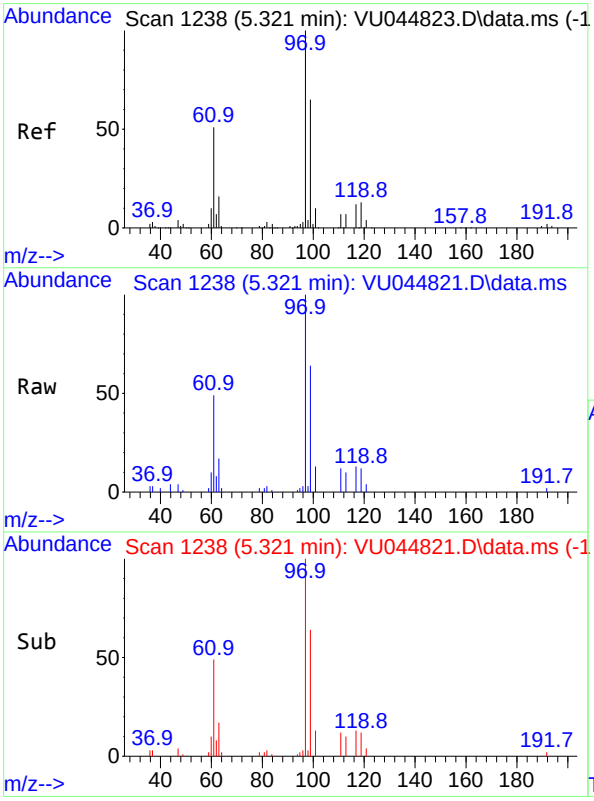


#31
Cyclohexane
Concen: 6.035 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 56 Resp: 20939

Ion	Ratio	Lower	Upper
56	100		
69	47.6	25.2	37.8#
84	91.7	66.4	99.6

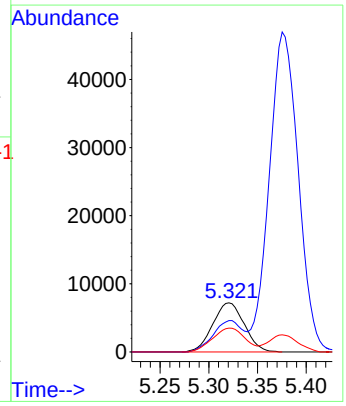




#32
1,1,1-Trichloroethane
Concen: 5.004 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 97 Resp: 16230

Ion	Ratio	Lower	Upper
97	100		
99	60.6	50.9	76.3
61	50.0	40.7	61.1



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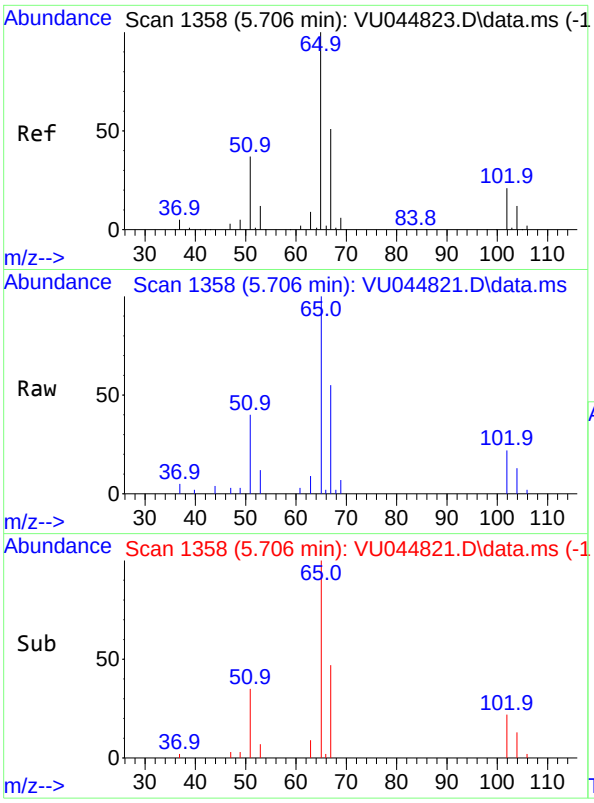
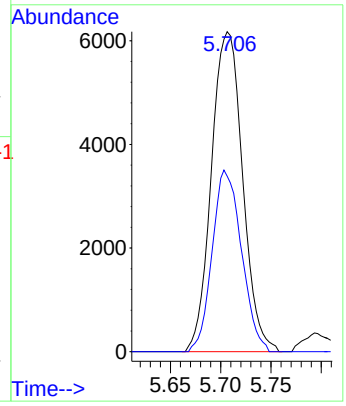
9/27/2021 11:02:35 AM

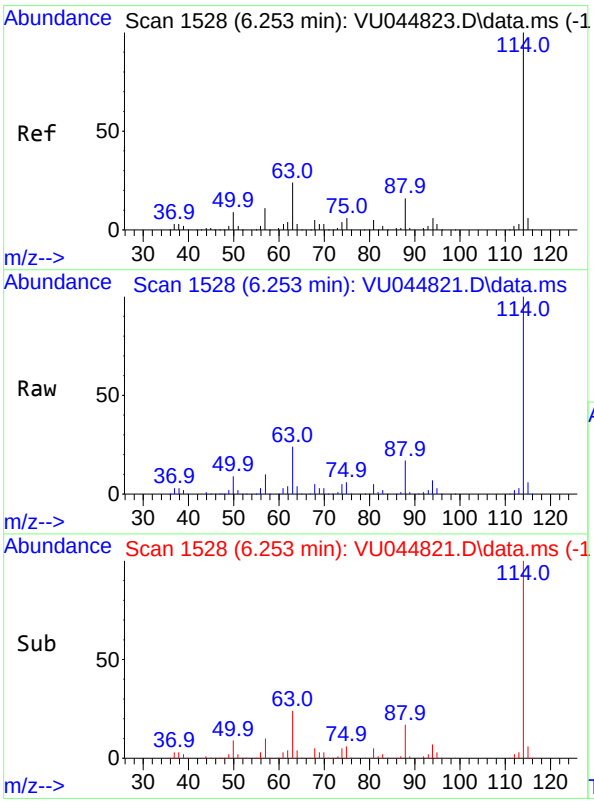


#33
1,2-Dichloroethane-d4
Concen: 5.456 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 65 Resp: 13336

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	104.8

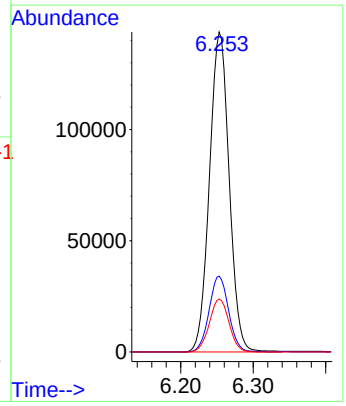




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:114 Resp: 271357

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	47.8
88	16.5	0.0	32.8



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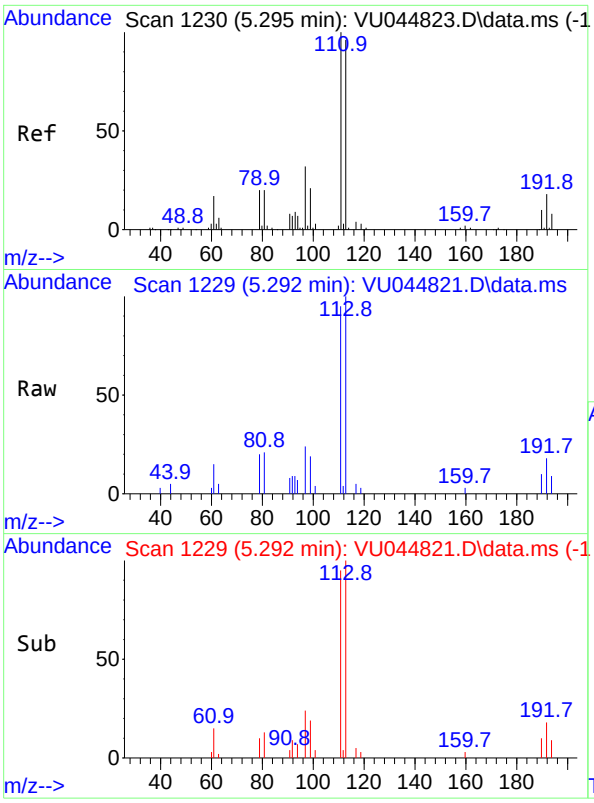
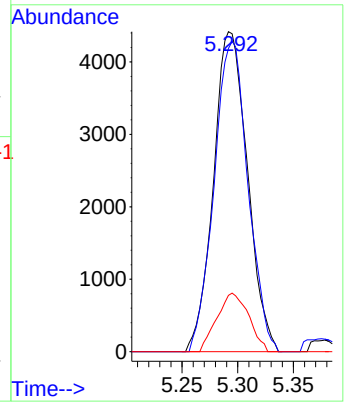
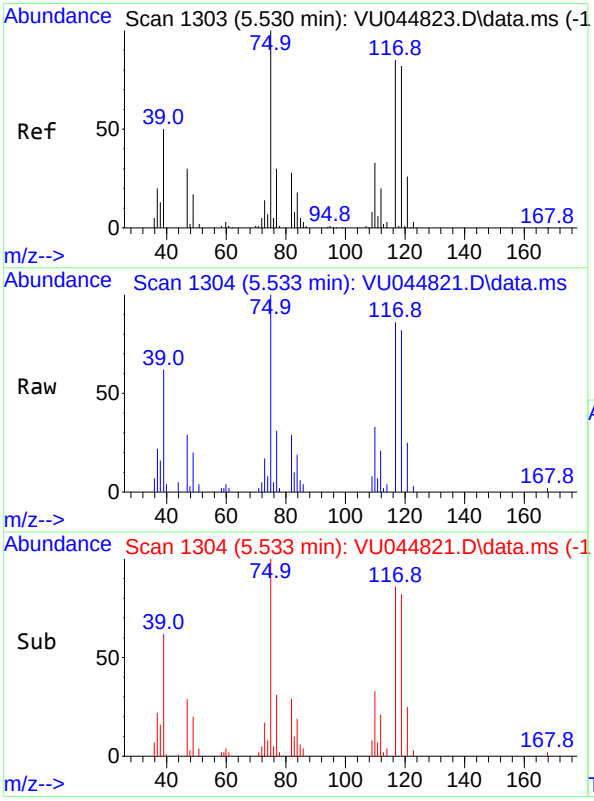


#35
Dibromofluoromethane
Concen: 4.977 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:113 Resp: 9368

Ion	Ratio	Lower	Upper
113	100		
111	96.6	84.1	126.1
192	17.1	14.8	22.2

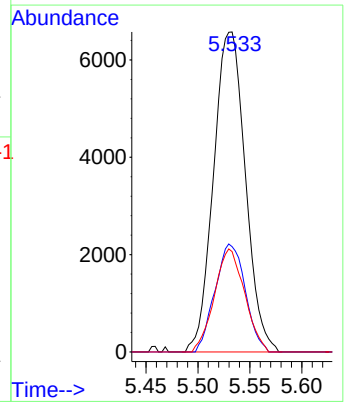




#36
1,1-Dichloropropene
Concen: 4.643 ug/l
RT: 5.533 min Scan# 1304
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 75 Resp: 14027

Ion	Ratio	Lower	Upper
75	100		
110	32.1	16.3	48.9
77	30.6	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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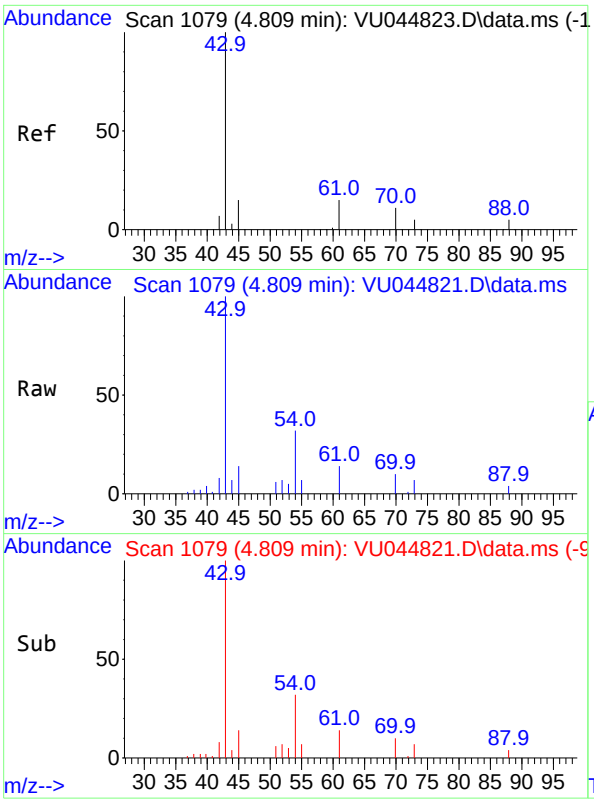
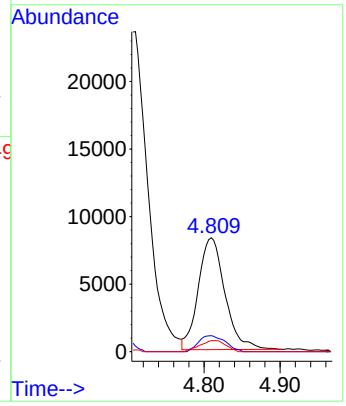
9/27/2021 11:02:35 AM

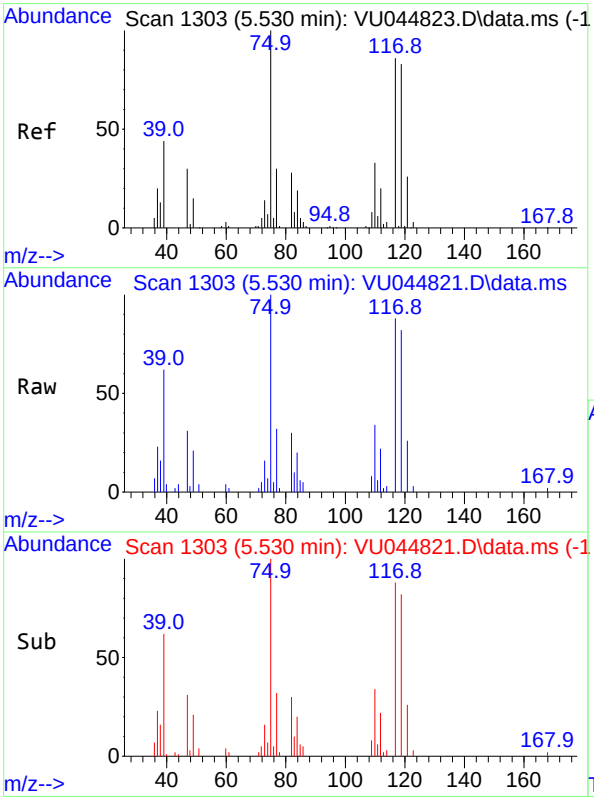


#37
Ethyl Acetate
Concen: 5.410 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 20188

Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.9	16.3
70	9.6	8.2	12.4

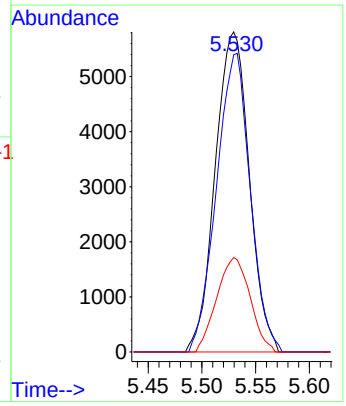




#38
Carbon Tetrachloride
Concen: 4.682 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:117 Resp: 12776

Ion	Ratio	Lower	Upper
117	100		
119	92.9	77.4	116.2
121	29.5	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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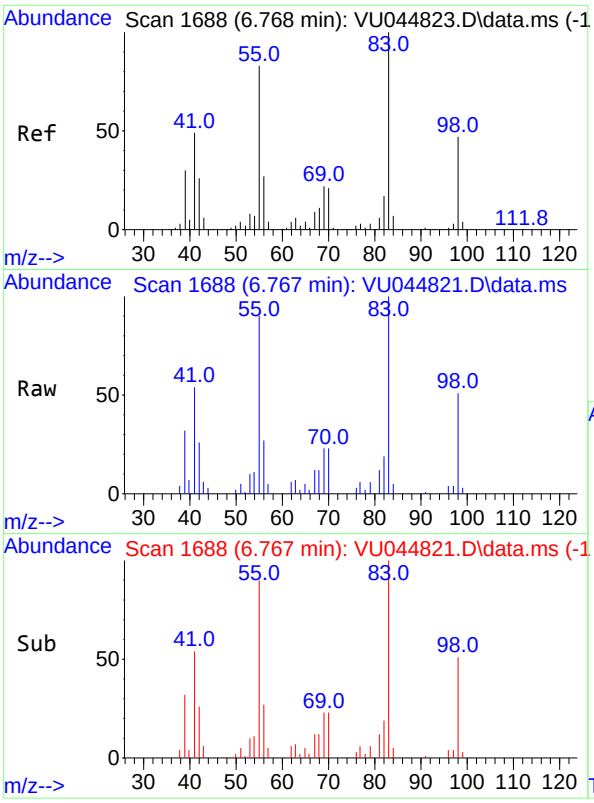
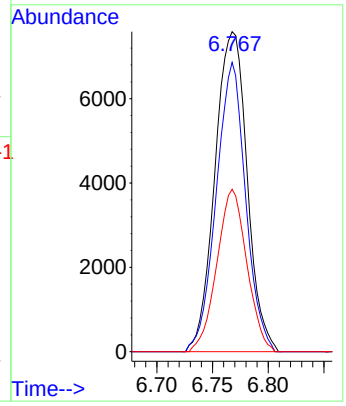
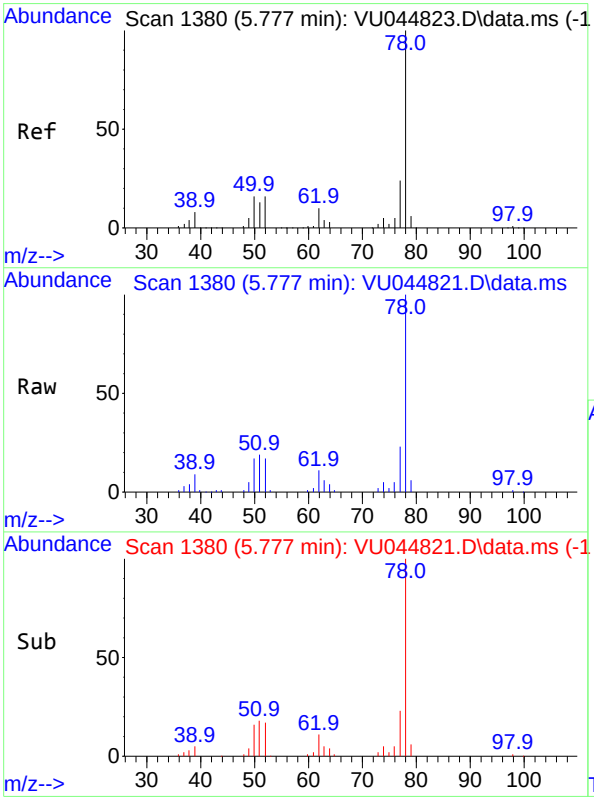


#39
Methylcyclohexane
Concen: 4.674 ug/l
RT: 6.767 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 83 Resp: 15276

Ion	Ratio	Lower	Upper
83	100		
55	90.4	66.2	99.4
98	50.7	37.5	56.3

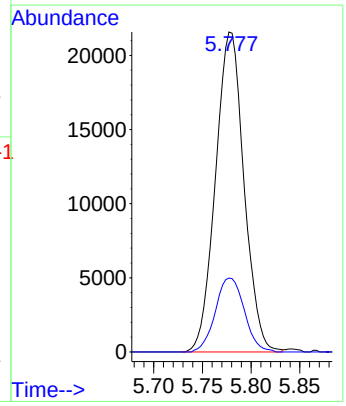




#40
Benzene
Concen: 4.894 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 78 Resp: 43876

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.1	28.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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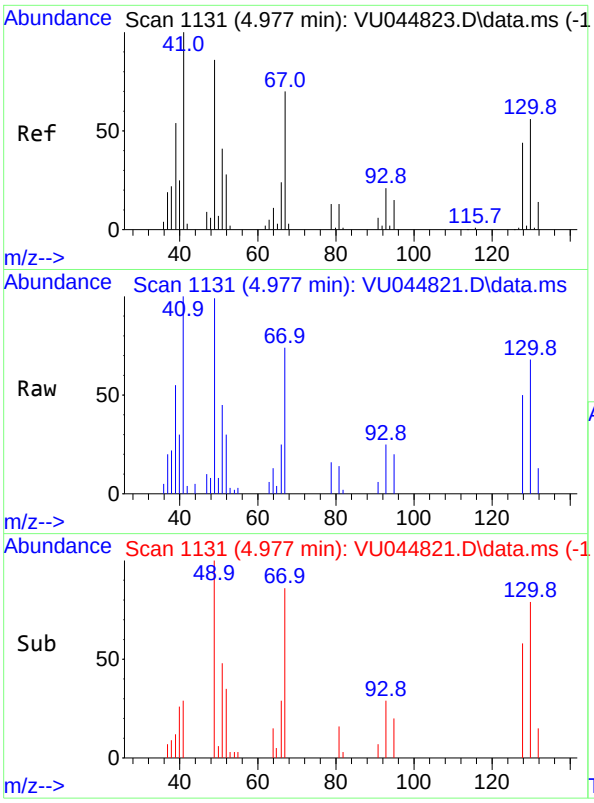
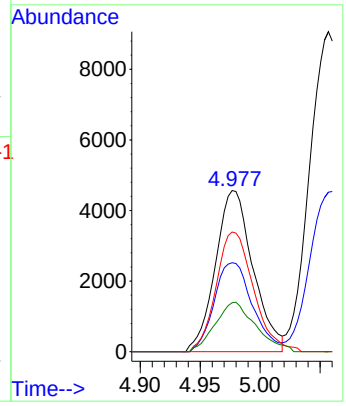
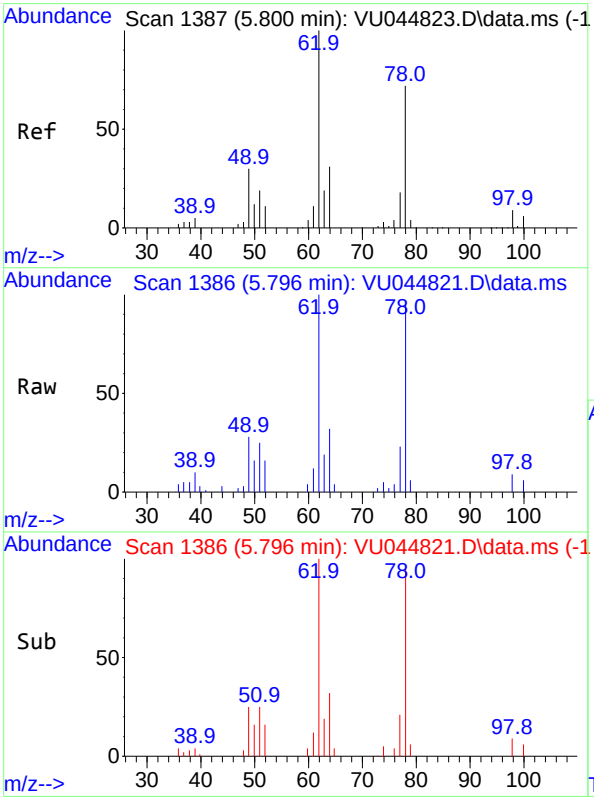


#41
Methacrylonitrile
Concen: 5.233 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 41 Resp: 9964

Ion	Ratio	Lower	Upper
41	100		
39	56.4	44.4	66.6
67	73.7	58.1	87.1
52	33.0	23.8	35.8

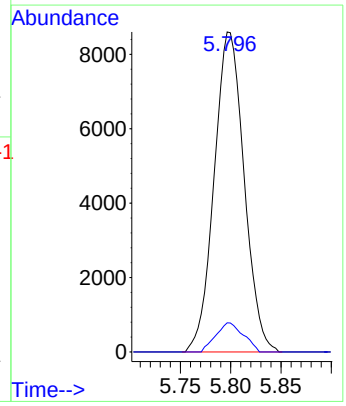




#42
1,2-Dichloroethane
Concen: 5.527 ug/l
RT: 5.796 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 62 Resp: 17826

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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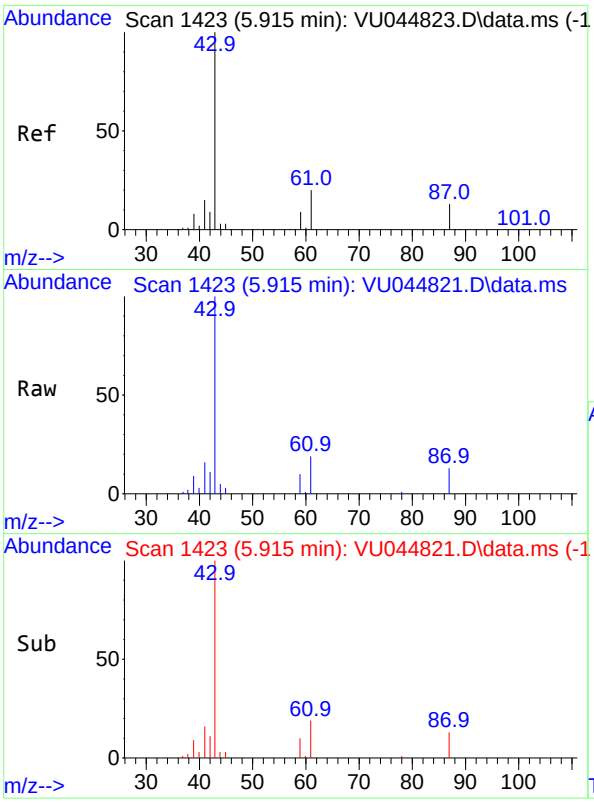
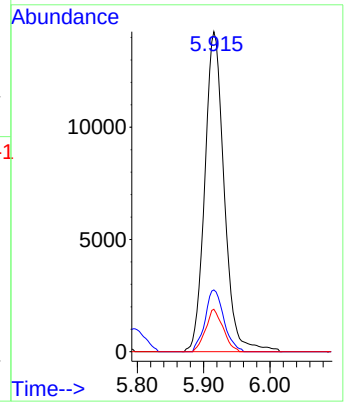
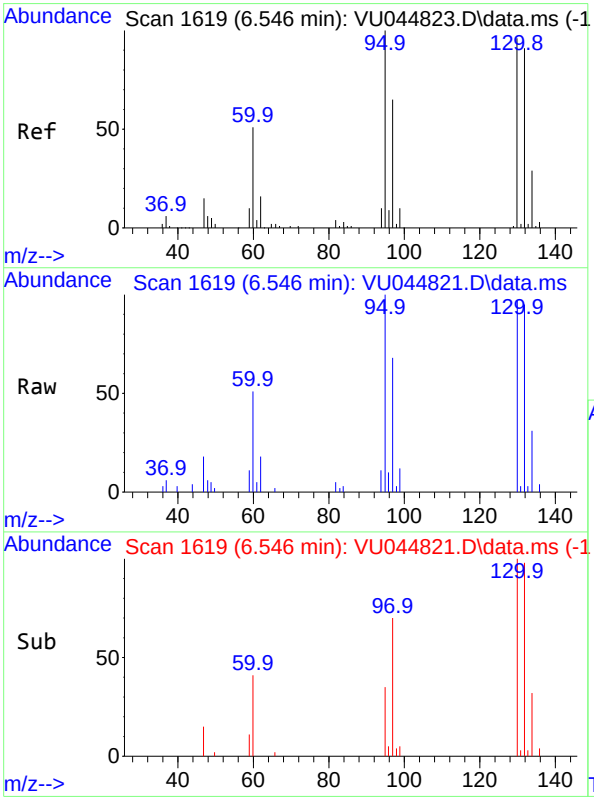


#43
Isopropyl Acetate
Concen: 5.489 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 28945

Ion	Ratio	Lower	Upper
43	100		
61	18.7	16.1	24.1
87	11.9	10.3	15.5

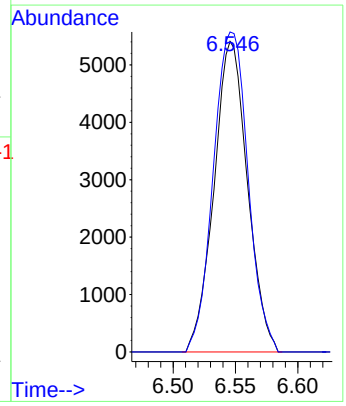




#44
Trichloroethene
Concen: 4.883 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:130 Resp: 10107

Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	209.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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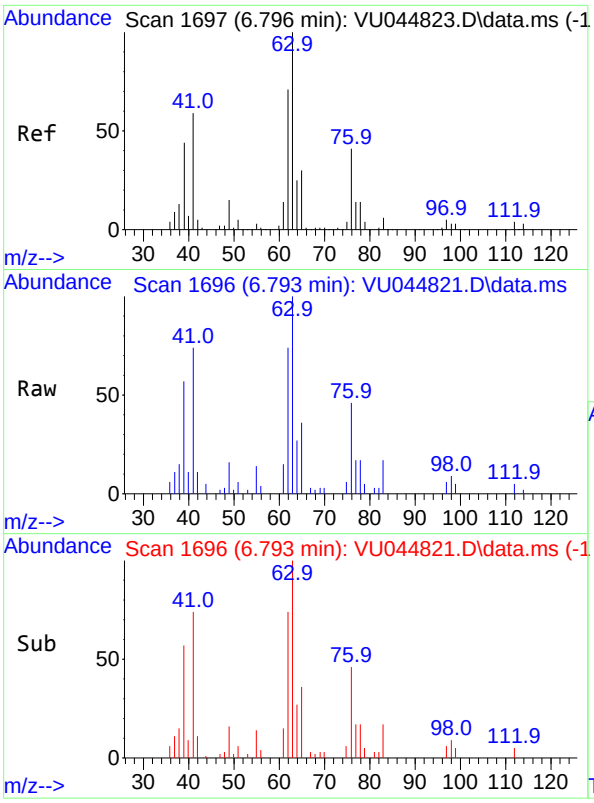
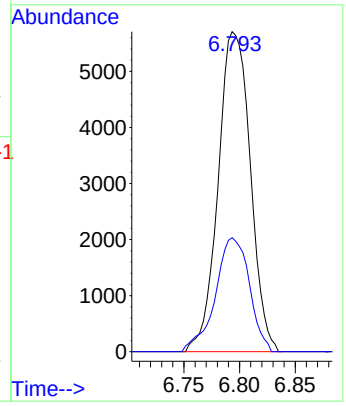
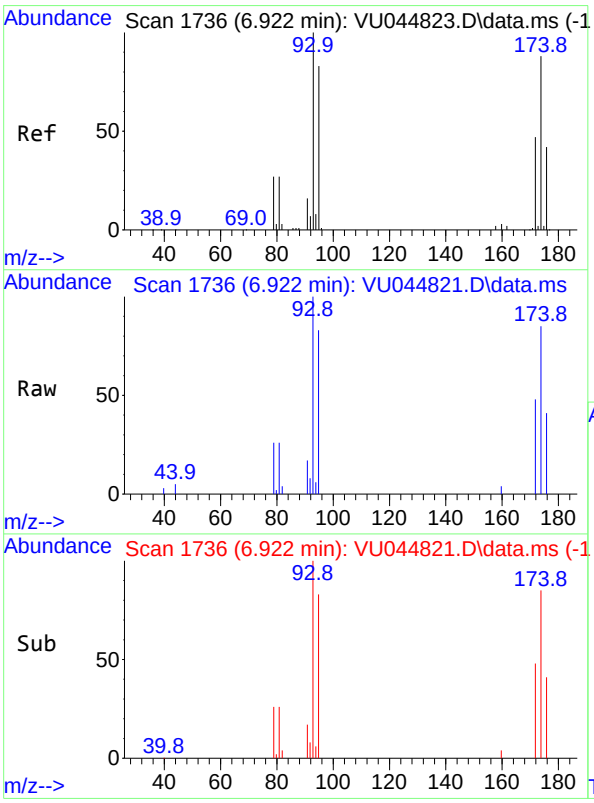


#45
1,2-Dichloropropane
Concen: 4.665 ug/l
RT: 6.793 min Scan# 1696
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 63 Resp: 11479

Ion	Ratio	Lower	Upper
63	100		
65	35.6	23.9	35.9

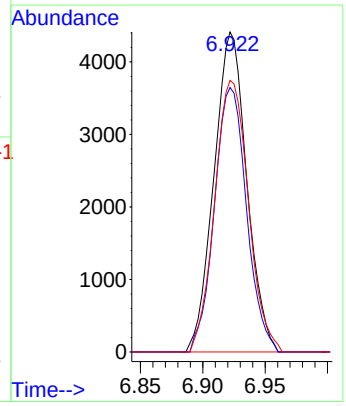




#46
Dibromomethane
Concen: 5.109 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 93 Resp: 8089

Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.6	98.4
174	87.1	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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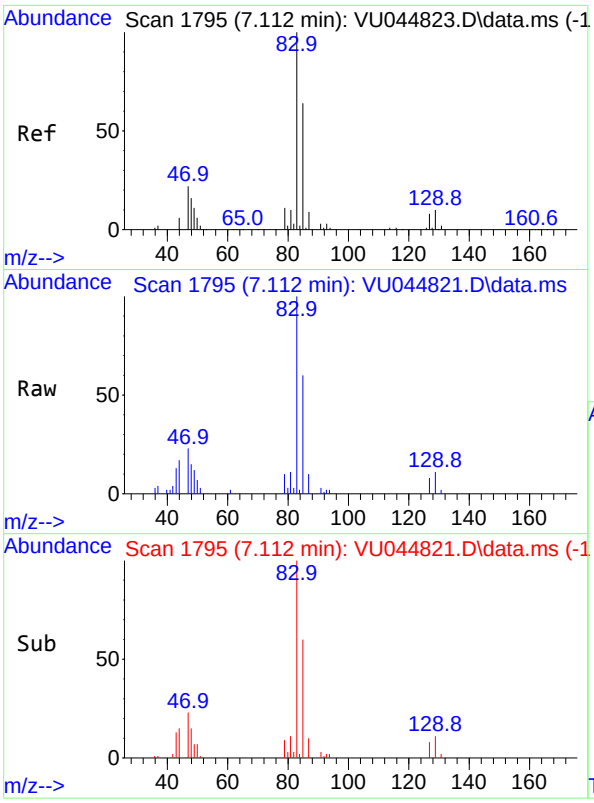
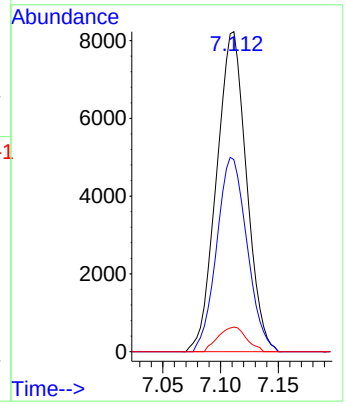
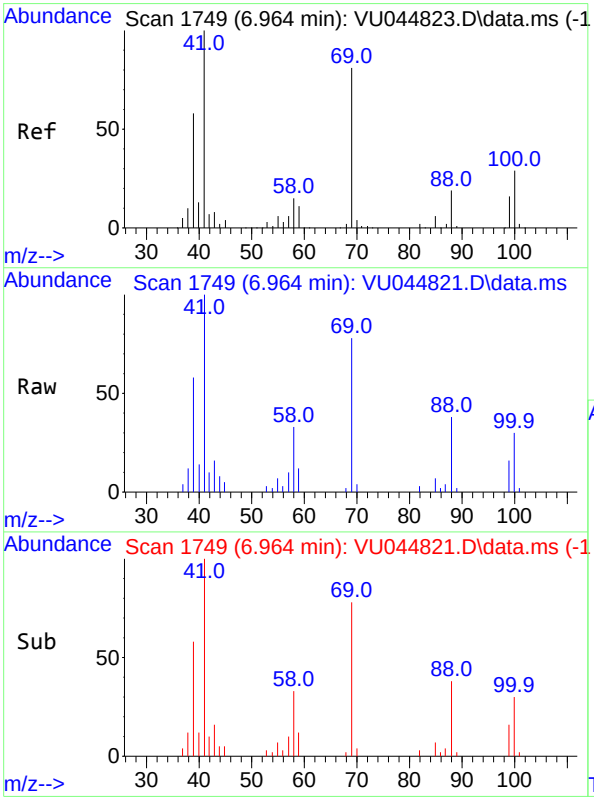


#47
Bromodichloromethane
Concen: 4.766 ug/l
RT: 7.112 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 83 Resp: 14827

Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.6	77.4
127	7.7	6.2	9.4

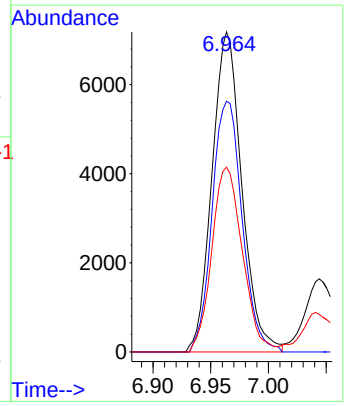




#48
Methyl methacrylate
Concen: 5.037 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 41 Resp: 12904

Ion	Ratio	Lower	Upper
41	100		
69	78.8	65.6	98.4
39	59.1	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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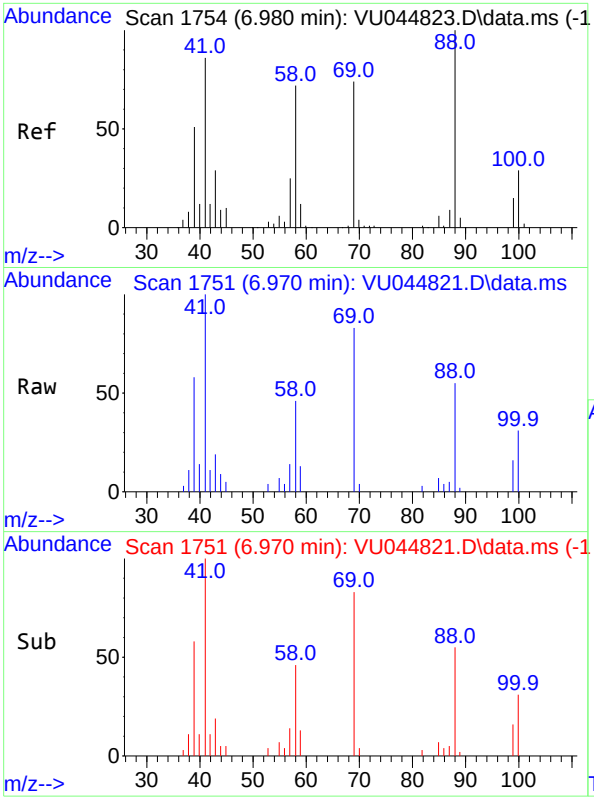
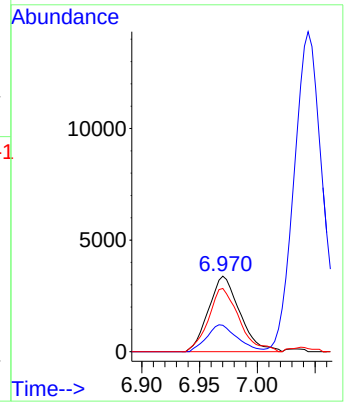
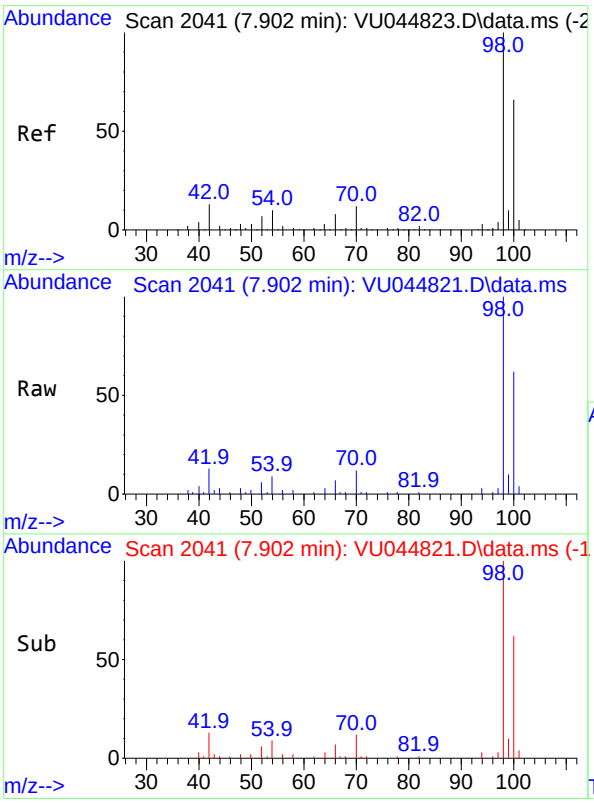


#49
1,4-Dioxane
Concen: 95.481 ug/l
RT: 6.970 min Scan# 1751
Delta R.T. -0.010 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 88 Resp: 6376

Ion	Ratio	Lower	Upper
88	100		
43	34.8	25.8	38.6
58	81.8	61.3	91.9

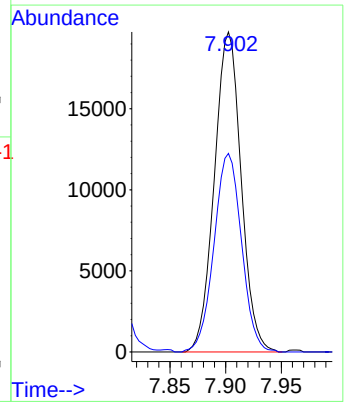




#50
Toluene-d8
Concen: 4.575 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 98 Resp: 33058

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.5	78.7



Instrument :
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ClientSampleId :
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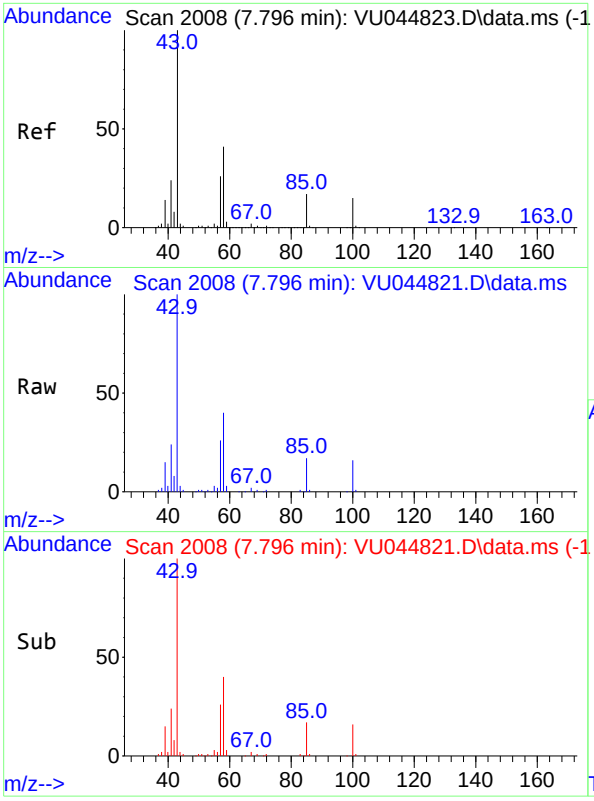
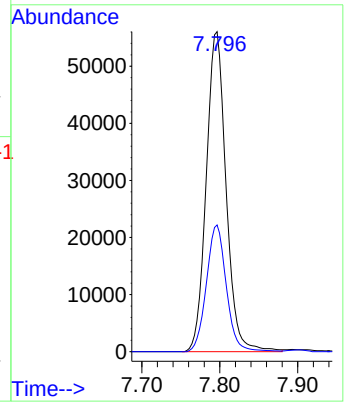
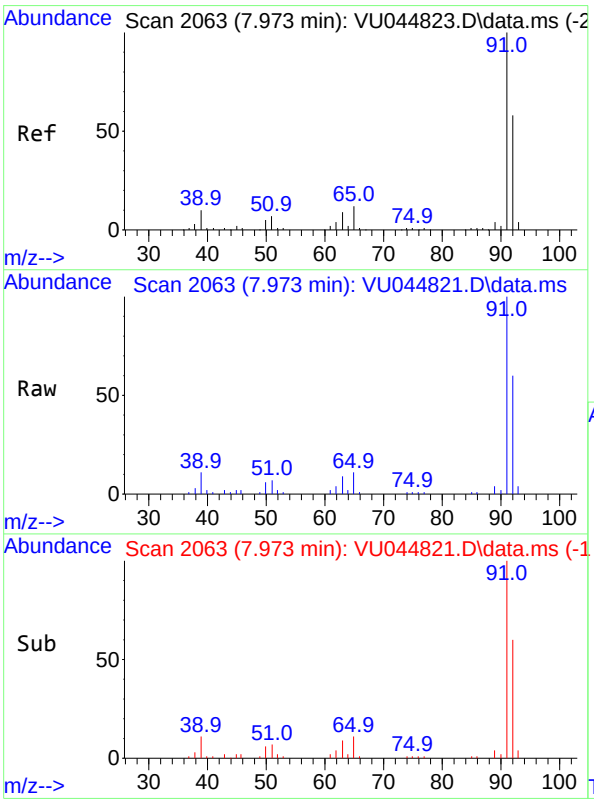


#51
4-Methyl-2-Pentanone
Concen: 26.093 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 99235

Ion	Ratio	Lower	Upper
43	100		
58	39.8	32.4	48.6

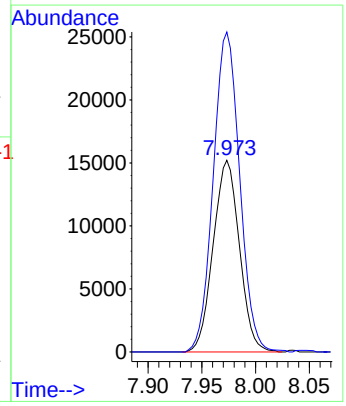




#52
Toluene
Concen: 4.863 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 92 Resp: 25822

Ion	Ratio	Lower	Upper
92	100		
91	168.1	136.9	205.3



Instrument :
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ClientSampleId :
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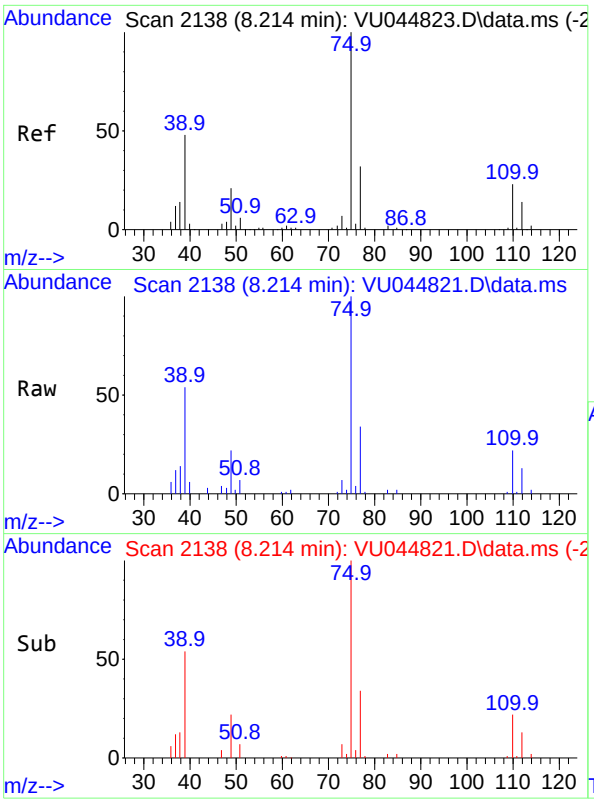
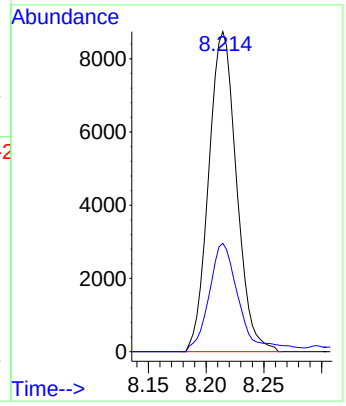
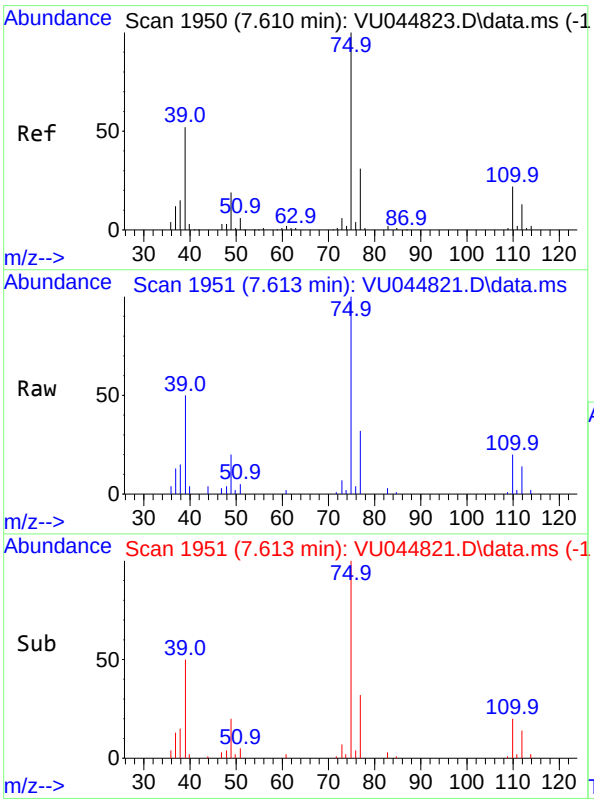


#53
t-1,3-Dichloropropene
Concen: 4.333 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 75 Resp: 14634

Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.6	38.4

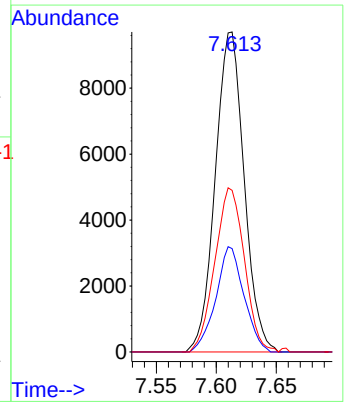




#54
cis-1,3-Dichloropropene
Concen: 4.459 ug/l
RT: 7.613 min Scan# 1951
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 75 Resp: 16235

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.0	37.6
39	50.5	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
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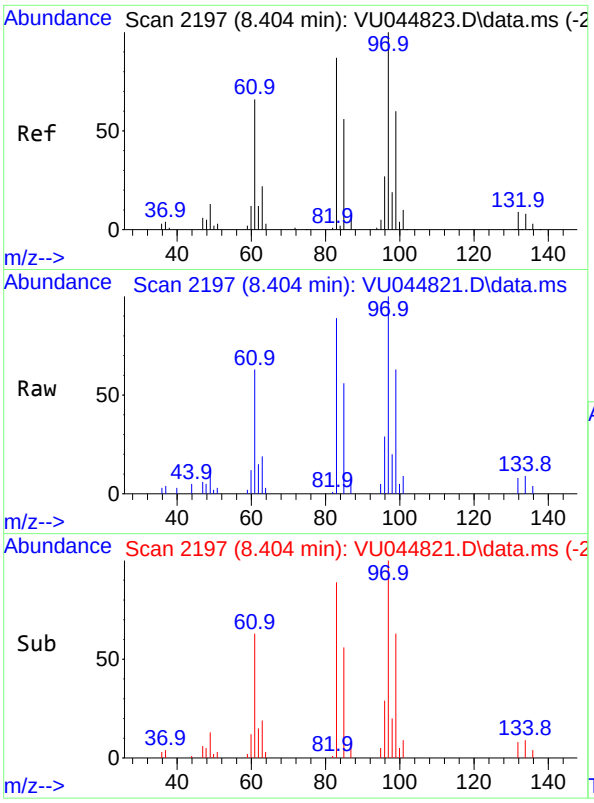
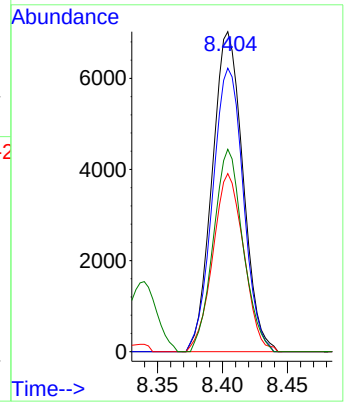
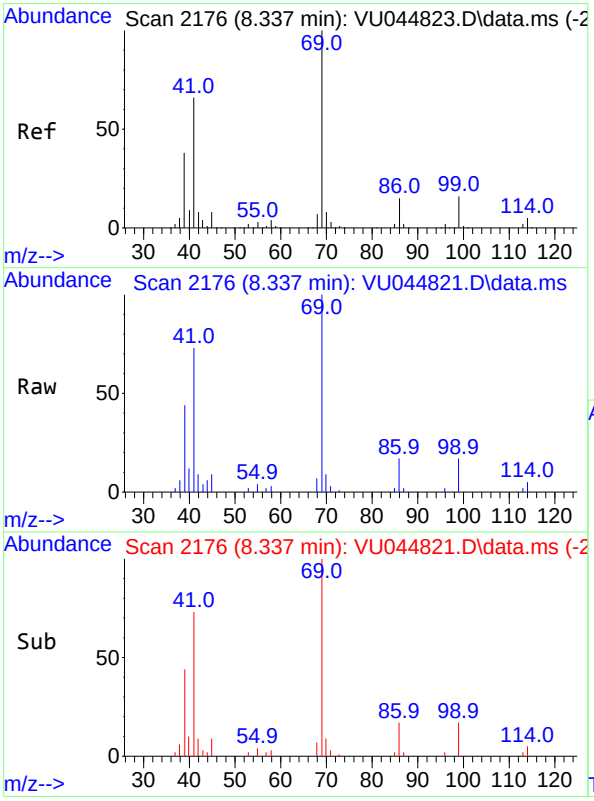


#55
1,1,2-Trichloroethane
Concen: 5.160 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 97 Resp: 11568

Ion	Ratio	Lower	Upper
97	100		
83	88.6	69.7	104.5
85	55.6	44.8	67.2
99	63.3	49.3	73.9

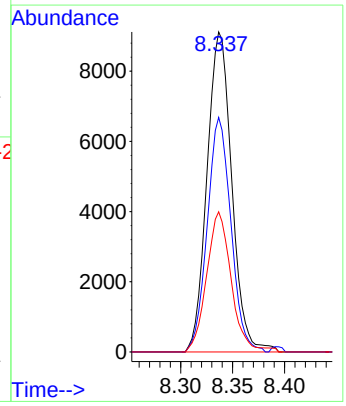




#56
Ethyl methacrylate
Concen: 4.406 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 69 Resp: 15103

Ion	Ratio	Lower	Upper
69	100		
41	70.0	53.5	80.3
39	43.6	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
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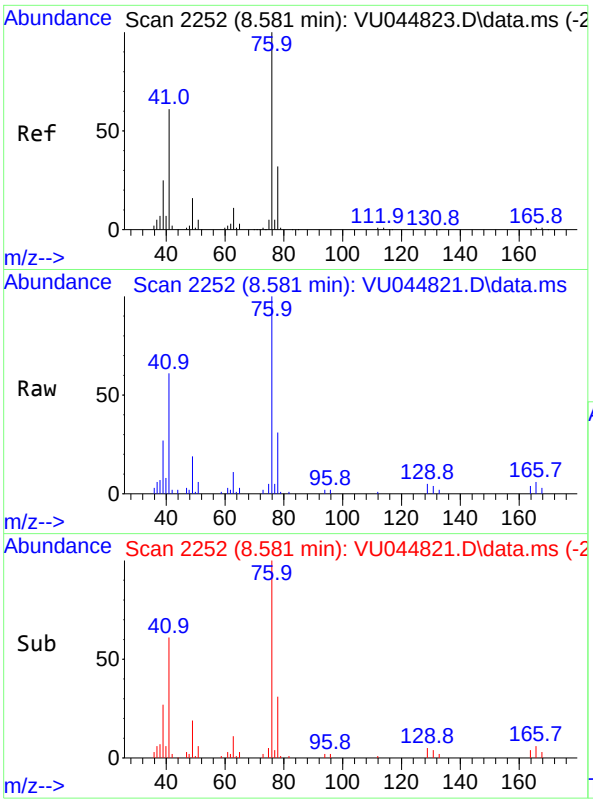
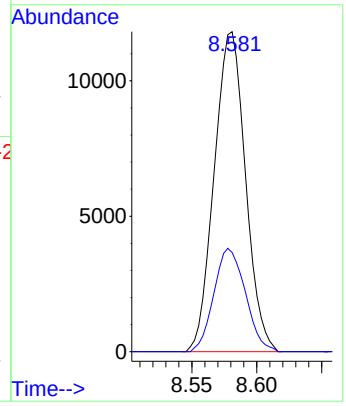
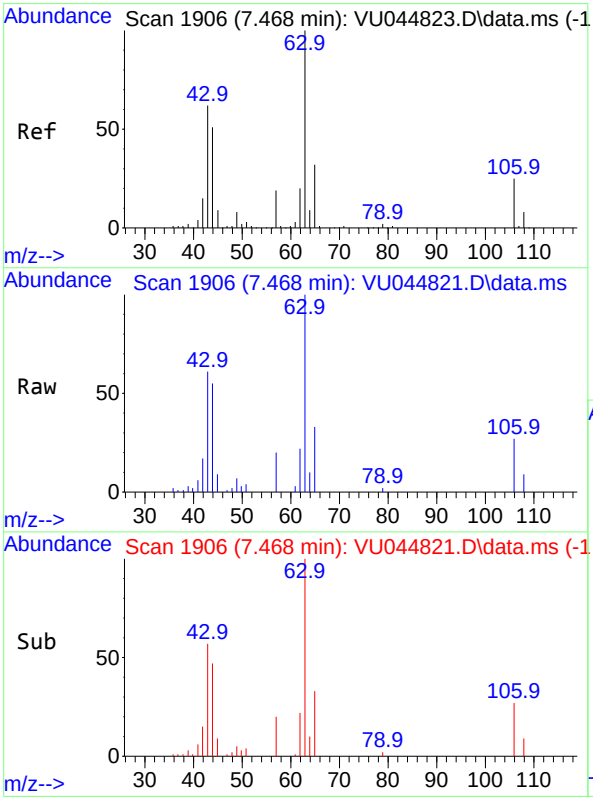


#57
1,3-Dichloropropane
Concen: 4.960 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 76 Resp: 19749

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.7	38.5

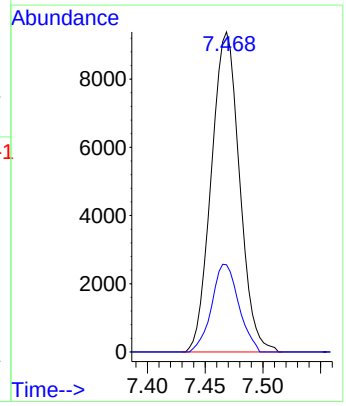




#58
2-Chloroethyl Vinyl ether
Concen: 15.790 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 63 Resp: 15934

Ion	Ratio	Lower	Upper
63	100		
106	26.3	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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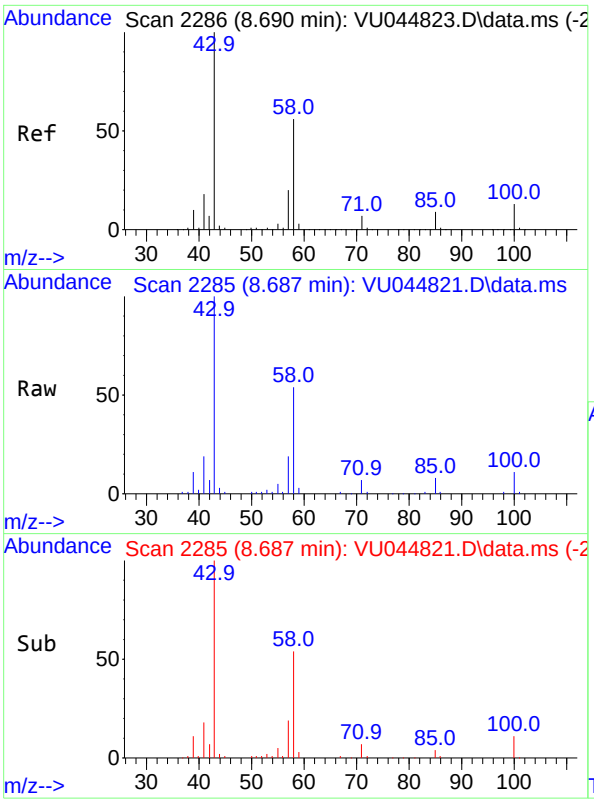
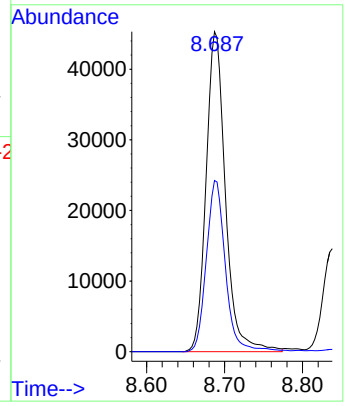
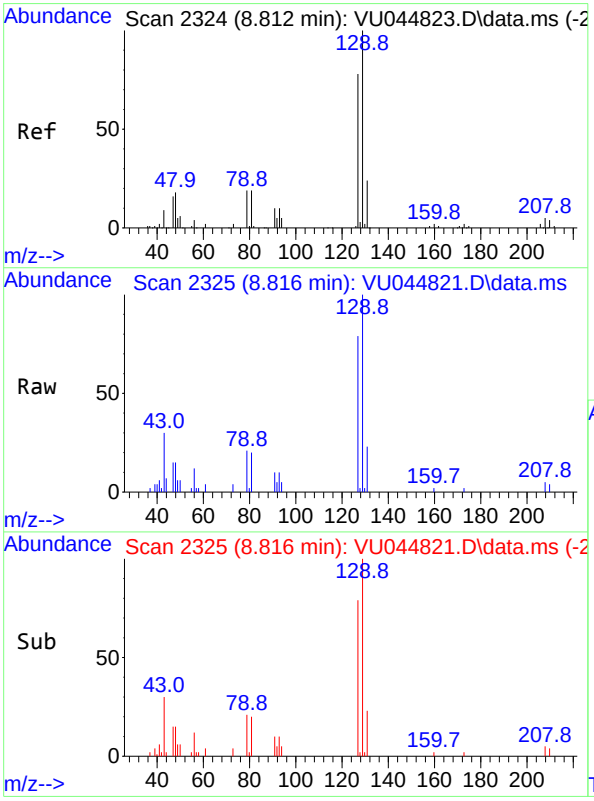


#59
2-Hexanone
Concen: 25.694 ug/l
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 78089

Ion	Ratio	Lower	Upper
43	100		
58	52.8	28.0	84.0

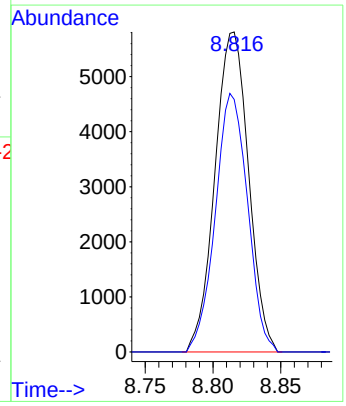




#60
Dibromochloromethane
Concen: 4.529 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:129 Resp: 10033

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.0	117.0



Instrument :
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ClientSampleId :
VSTDICC005

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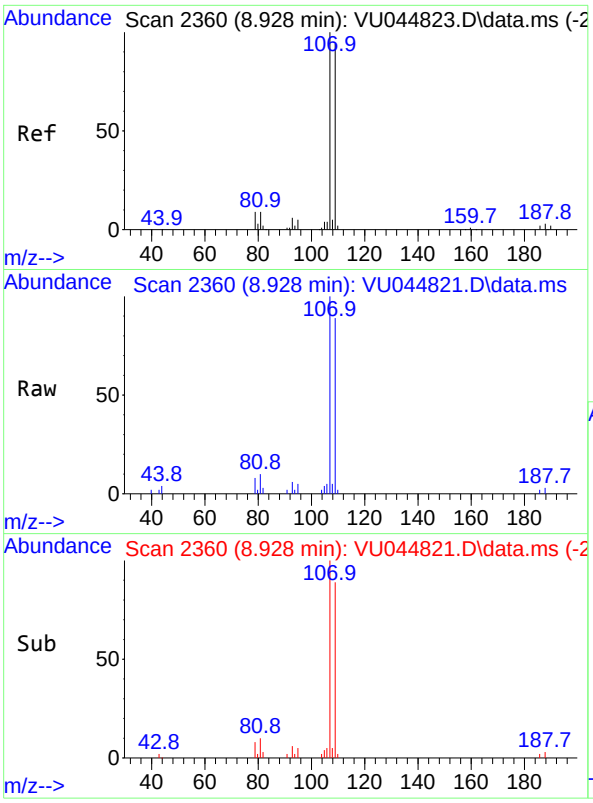
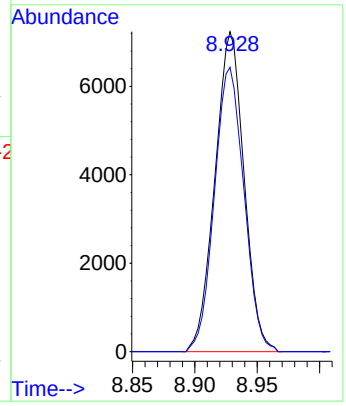
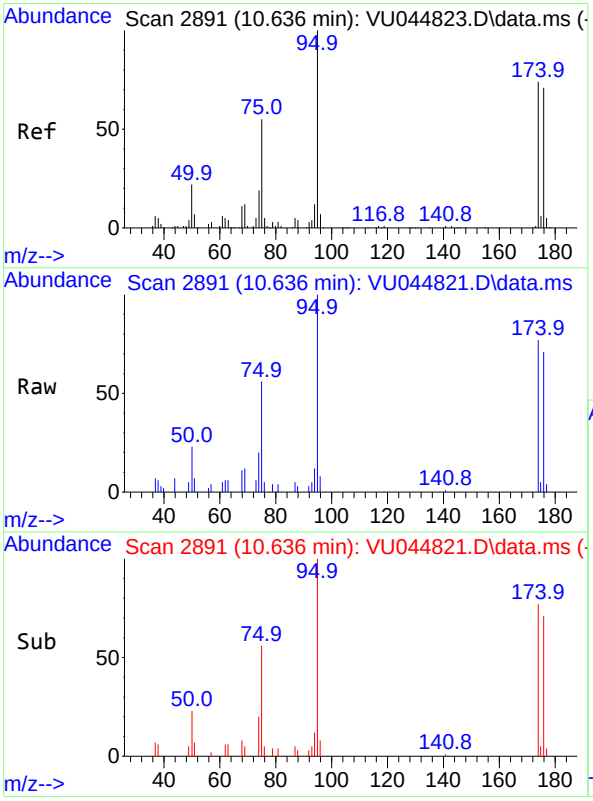


#61
1,2-Dibromoethane
Concen: 4.998 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:107 Resp: 11784

Ion	Ratio	Lower	Upper
107	100		
109	90.1	74.8	112.2

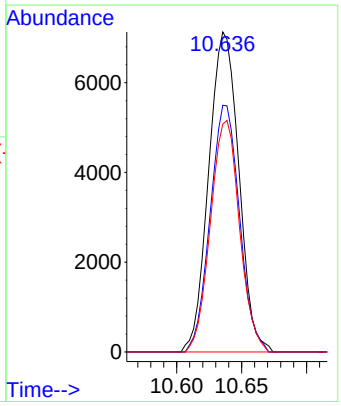




#62
4-Bromofluorobenzene
Concen: 4.031 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 95 Resp: 11473

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	146.6
176	69.9	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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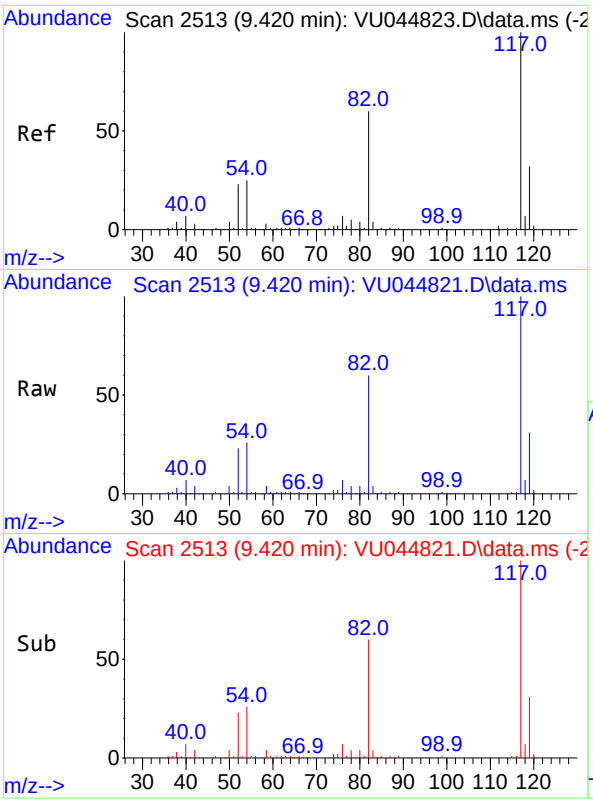
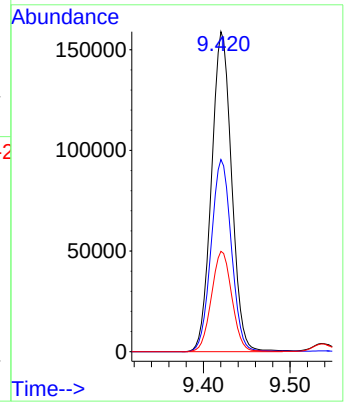
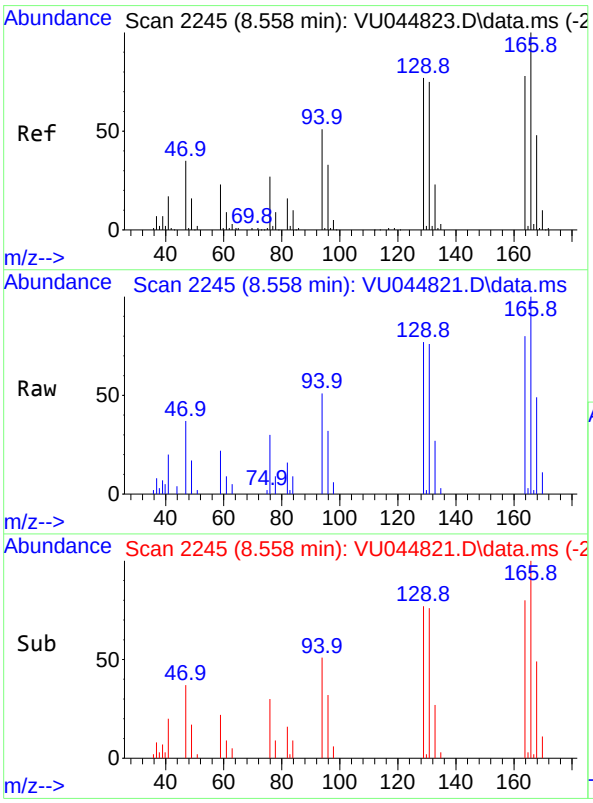


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:117 Resp: 256702

Ion	Ratio	Lower	Upper
117	100		
82	60.1	47.8	71.8
119	31.4	25.8	38.6

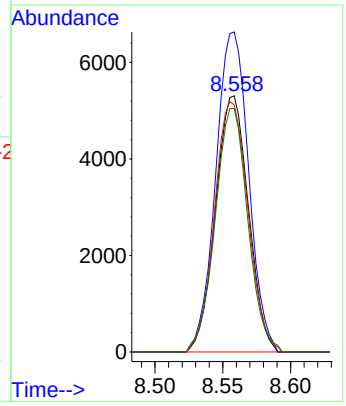




#64
Tetrachloroethene
Concen: 5.041 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:164 Resp: 8968

Ion	Ratio	Lower	Upper
164	100		
166	124.9	102.8	154.2
129	96.5	79.4	119.2
131	95.0	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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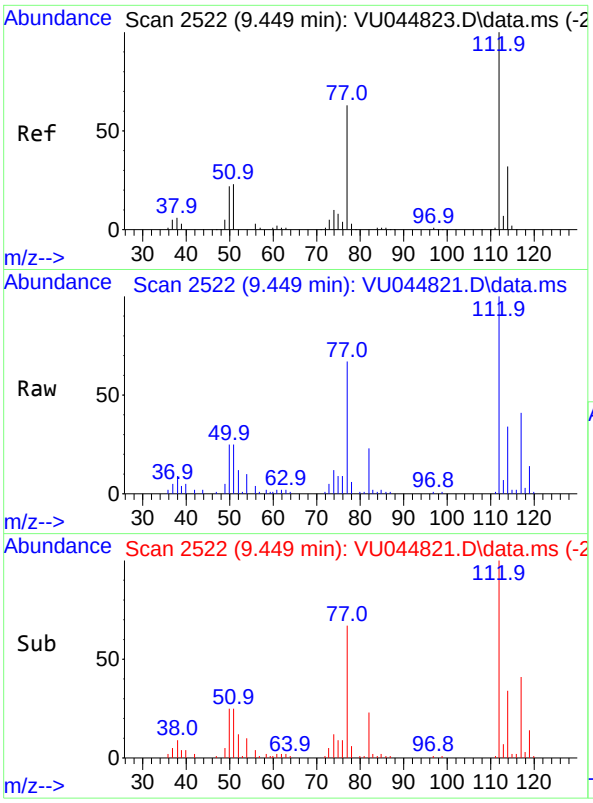
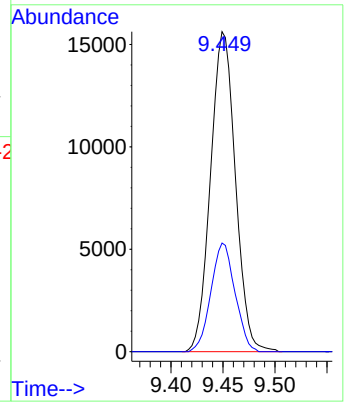
9/27/2021 11:02:35 AM

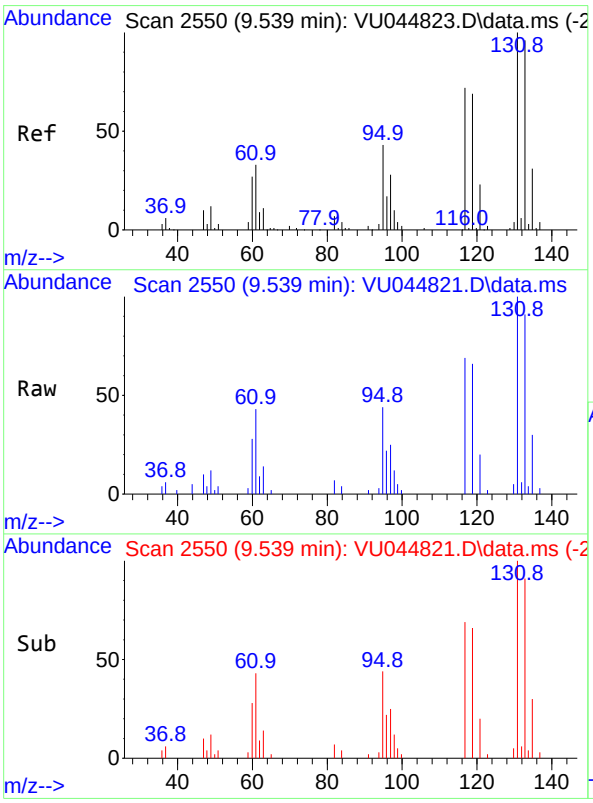


#65
Chlorobenzene
Concen: 4.726 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:112 Resp: 26021

Ion	Ratio	Lower	Upper
112	100		
114	34.0	25.9	38.9

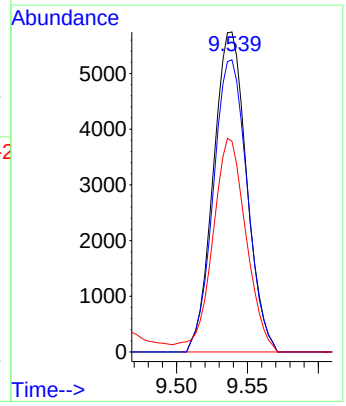




#66
1,1,1,2-Tetrachloroethane
Concen: 4.871 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:131 Resp: 9382

Ion	Ratio	Lower	Upper
131	100		
133	92.9	48.1	144.3
119	67.3	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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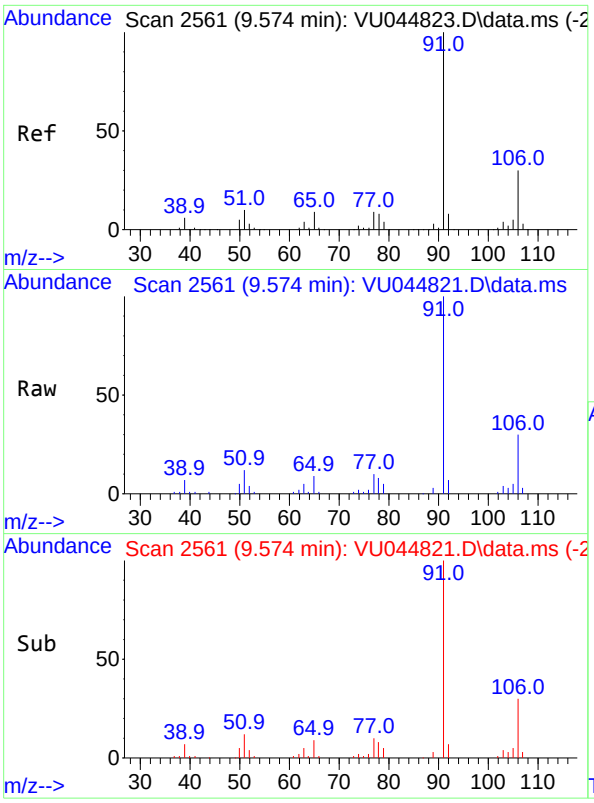
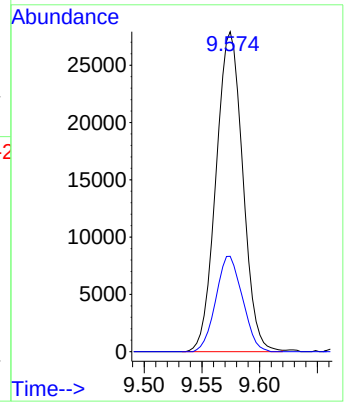
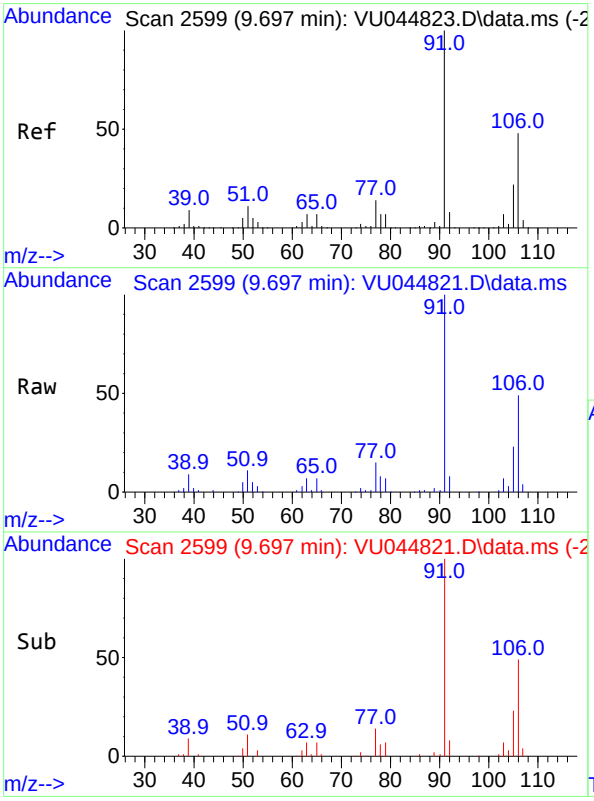


#67
Ethyl Benzene
Concen: 4.551 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 91 Resp: 44895

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.3	36.5

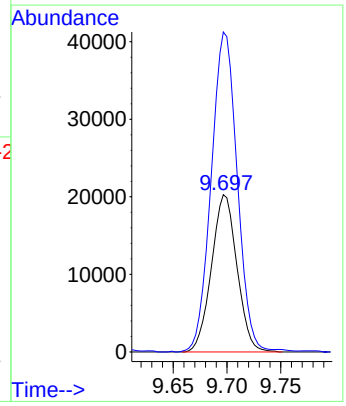




#68
m/p-Xylenes
Concen: 9.049 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:106 Resp: 33441

Ion	Ratio	Lower	Upper
106	100		
91	207.9	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
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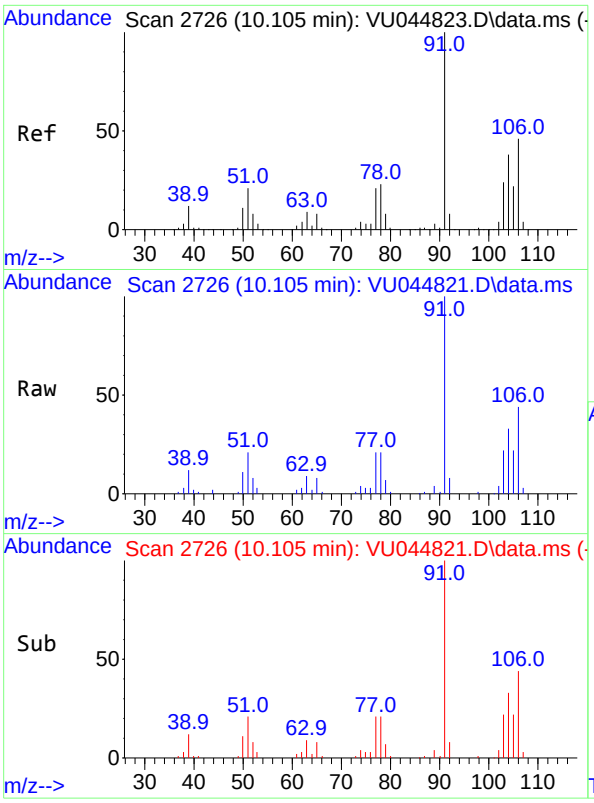
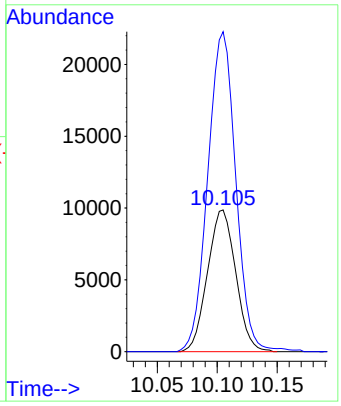
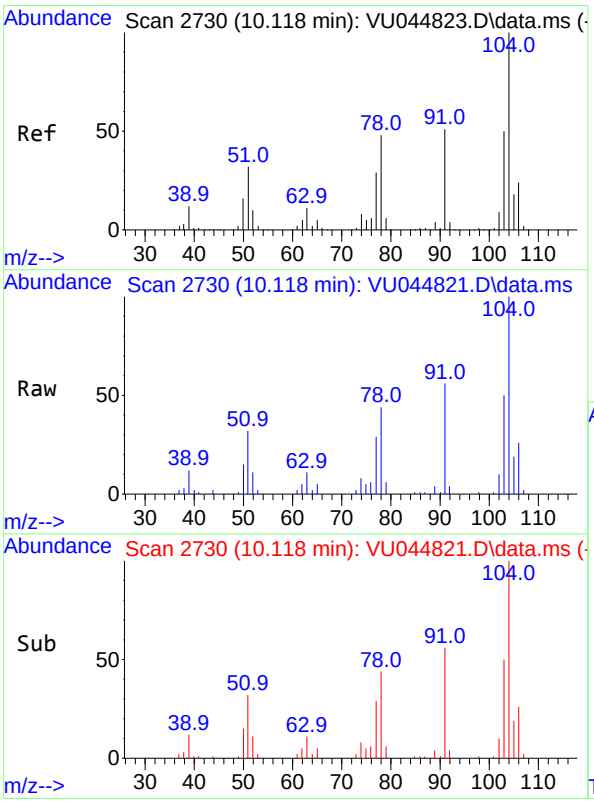


#69
o-Xylene
Concen: 4.590 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:106 Resp: 16136

Ion	Ratio	Lower	Upper
106	100		
91	224.1	108.9	326.7

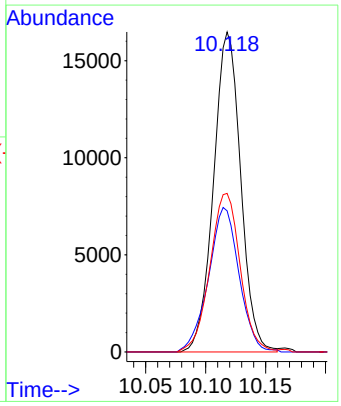




#70
Styrene
Concen: 4.266 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:104 Resp: 25967

Ion	Ratio	Lower	Upper
104	100		
78	50.7	41.4	62.0
103	55.1	43.5	65.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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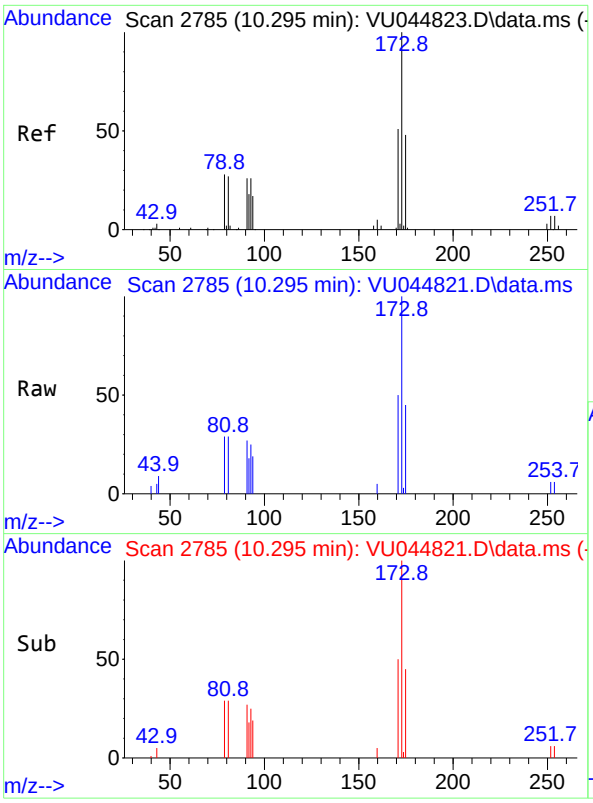
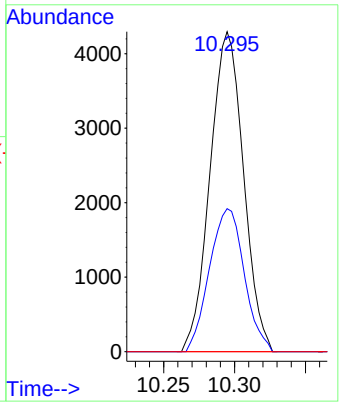
9/27/2021 11:02:35 AM

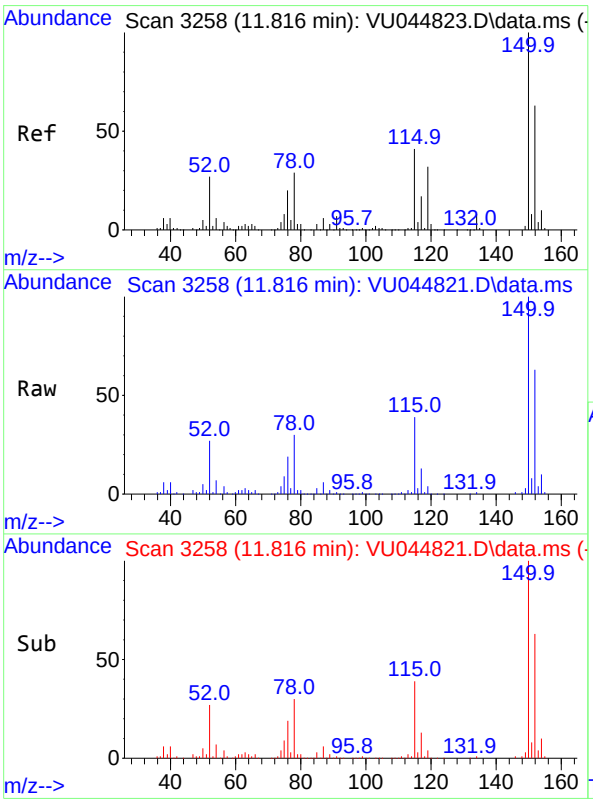


#71
Bromoform
Concen: 4.343 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:173 Resp: 7056

Ion	Ratio	Lower	Upper
173	100		
175	46.4	24.3	73.0
254	0.0	0.0	0.0

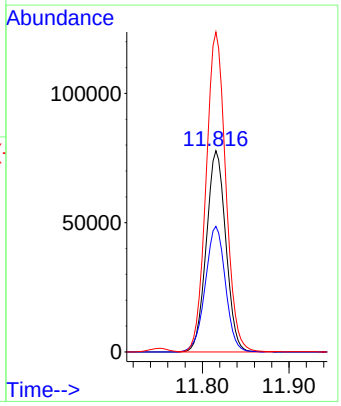




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:152 Resp: 121817

Ion	Ratio	Lower	Upper
152	100		
115	64.6	43.5	130.7
150	160.1	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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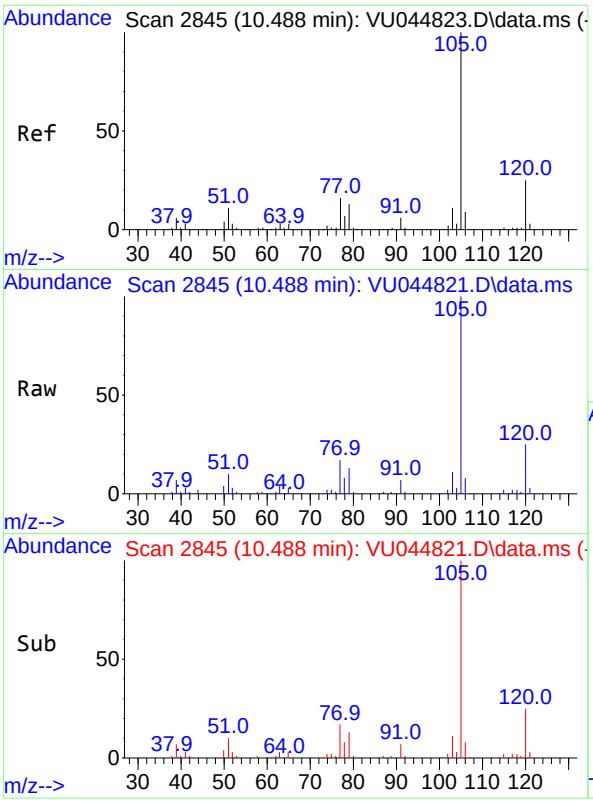
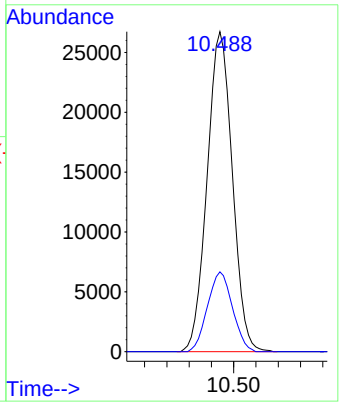
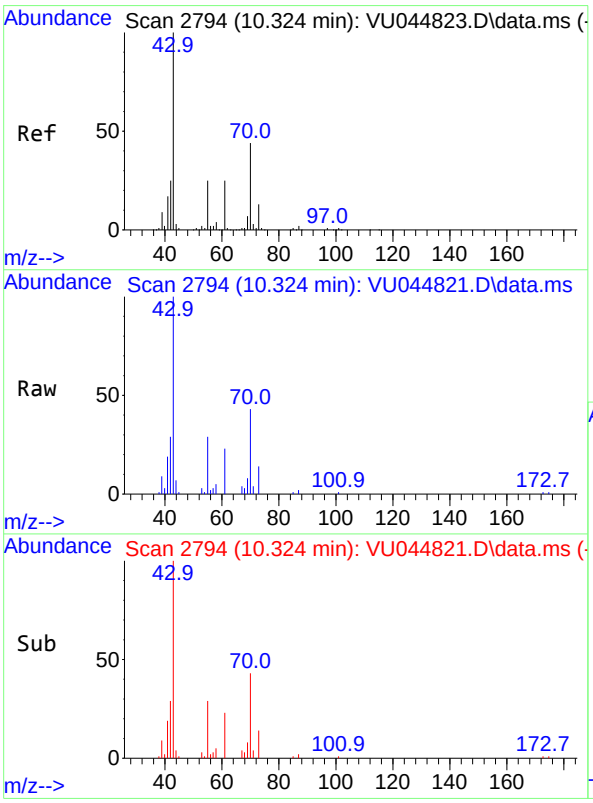


#73
Isopropylbenzene
Concen: 5.089 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:105 Resp: 42028

Ion	Ratio	Lower	Upper
105	100		
120	24.6	12.8	38.3

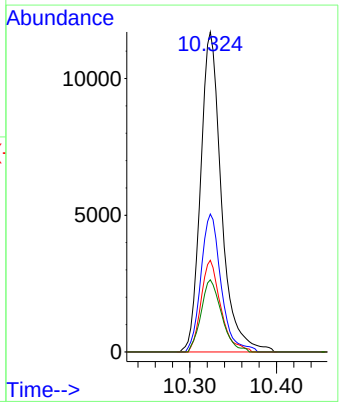




#74
N-amyl acetate
Concen: 5.130 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 43 Resp: 19583

Ion	Ratio	Lower	Upper
43	100		
70	41.9	35.1	52.7
55	27.0	20.5	30.7
61	22.2	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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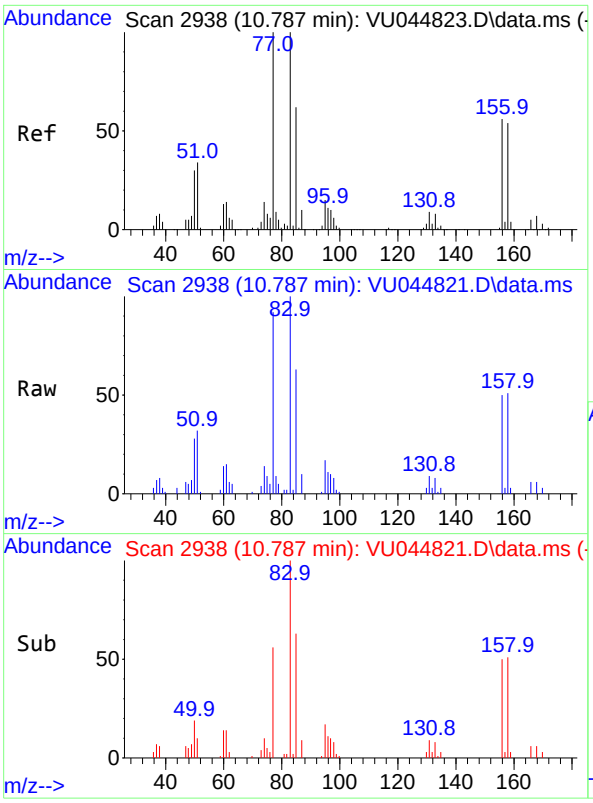
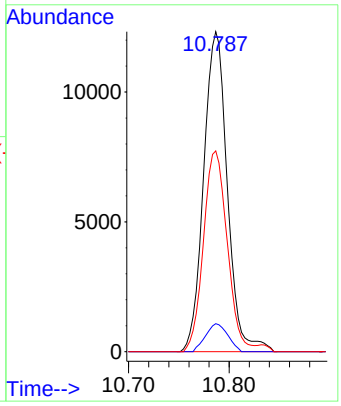
9/27/2021 11:02:35 AM

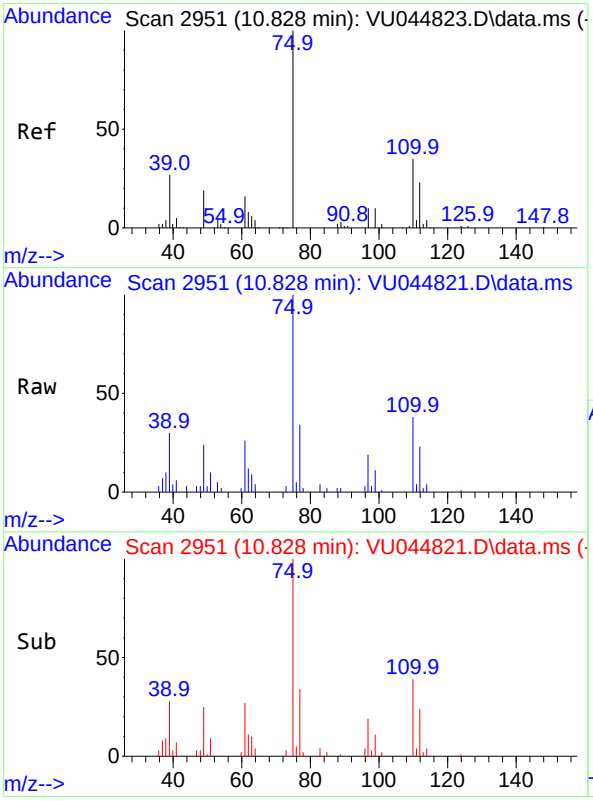


#75
1,1,2,2-Tetrachloroethane
Concen: 5.584 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 83 Resp: 20168

Ion	Ratio	Lower	Upper
83	100		
131	8.2	4.3	13.1
85	62.9	31.9	95.5

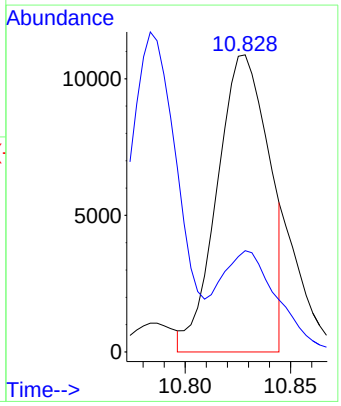




#76
1,2,3-Trichloropropane
Concen: 4.619 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 75 Resp: 18508

Ion	Ratio	Lower	Upper
75	100		
77	38.6	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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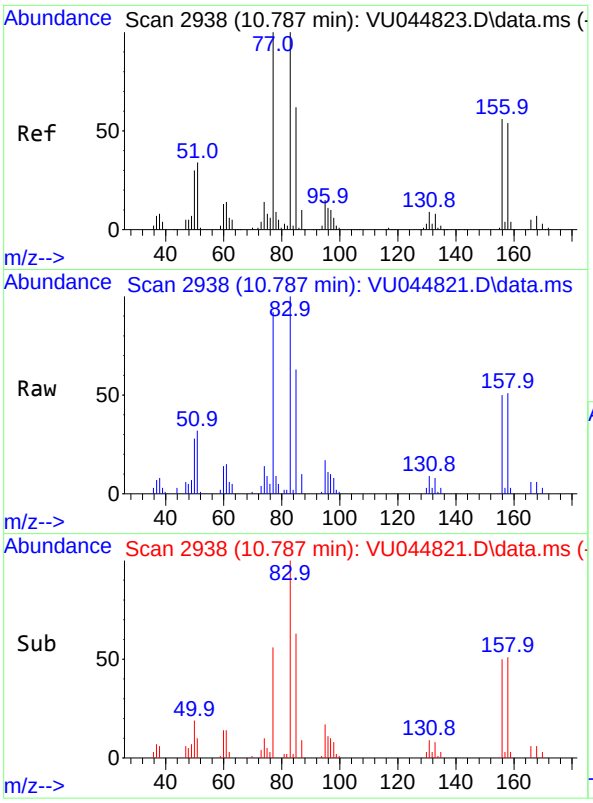
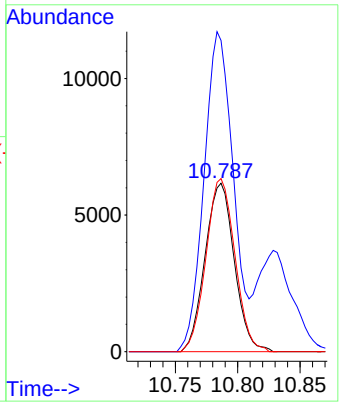
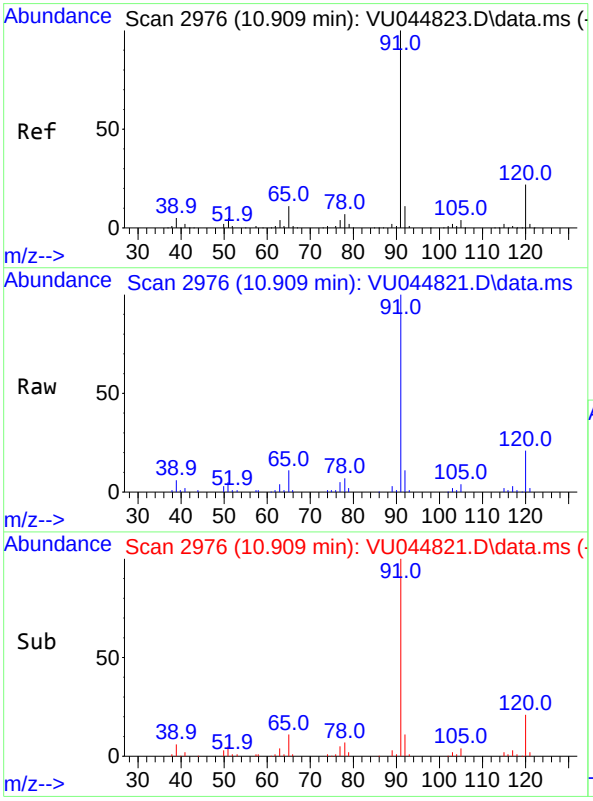


#77
Bromobenzene
Concen: 4.873 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:156 Resp: 10095

Ion	Ratio	Lower	Upper
156	100		
77	188.4	91.1	273.4
158	101.5	48.2	144.6

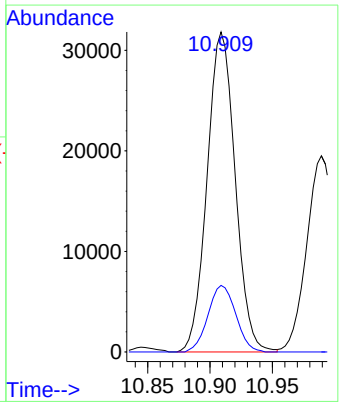




#78
n-propylbenzene
Concen: 4.671 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 91 Resp: 49911

Ion	Ratio	Lower	Upper
91	100		
120	20.6	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
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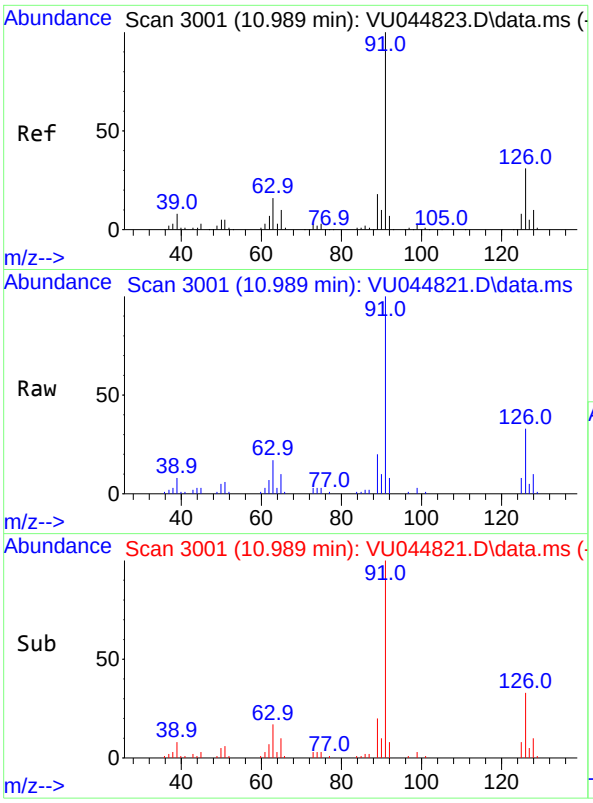
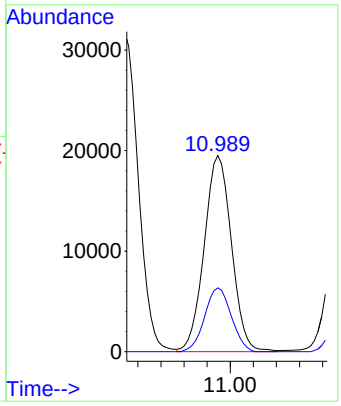
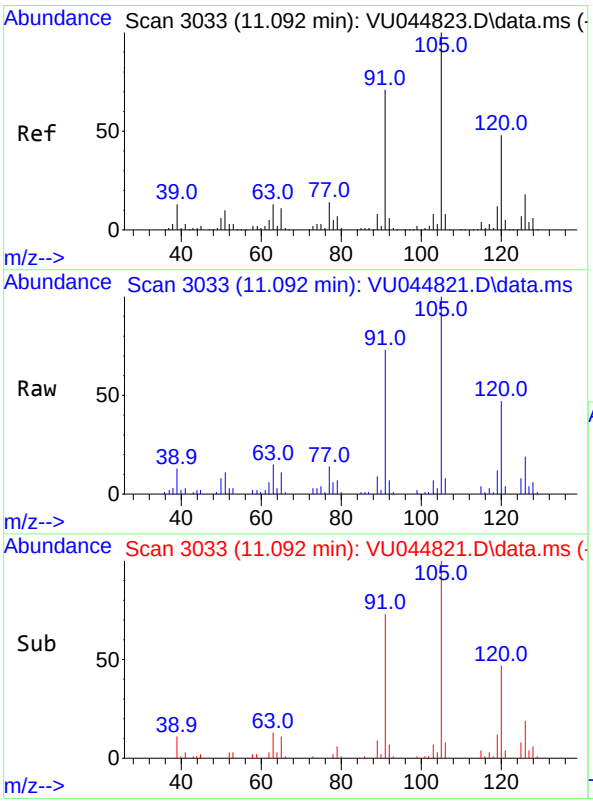


#79
2-Chlorotoluene
Concen: 5.052 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 91 Resp: 32032

Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.7	47.0

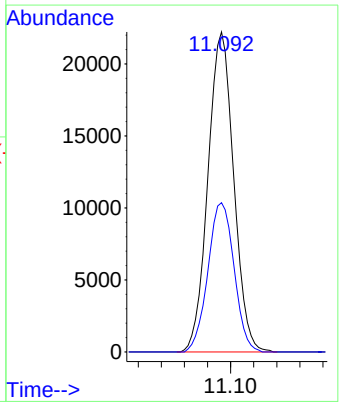




#80
1,3,5-Trimethylbenzene
Concen: 4.709 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:105 Resp: 34368

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.1	72.2



Instrument :
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ClientSampleId :
VSTDICC005

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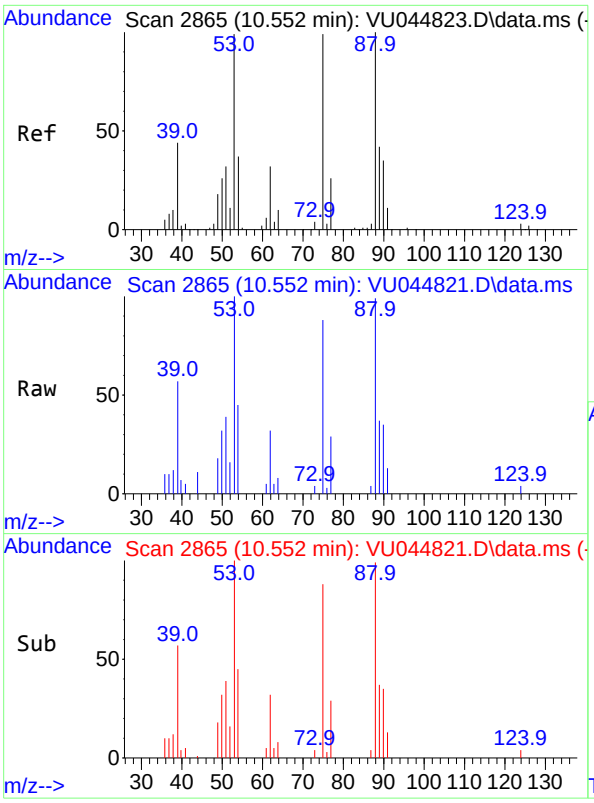
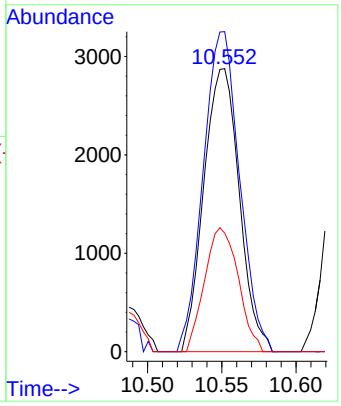
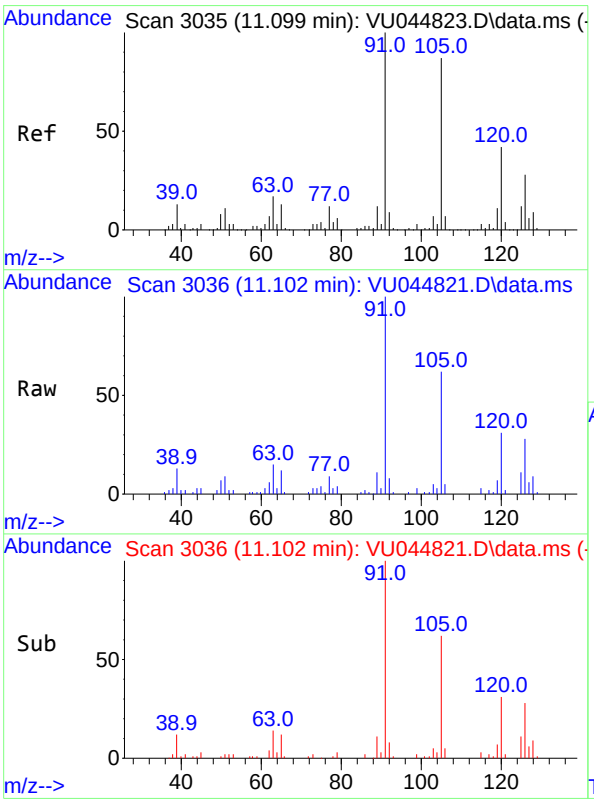


#81
trans-1,4-Dichloro-2-butene
Concen: 4.235 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 75 Resp: 4791

Ion	Ratio	Lower	Upper
75	100		
53	115.3	82.0	123.0
89	41.4	34.2	51.4

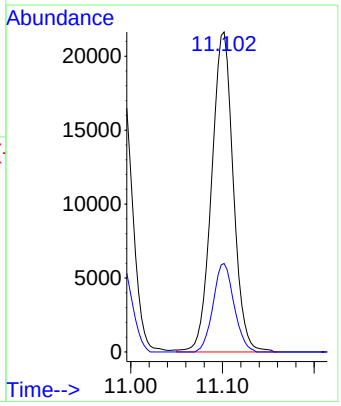




#82
4-Chlorotoluene
Concen: 4.754 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 91 Resp: 35404

Ion	Ratio	Lower	Upper
91	100		
126	26.7	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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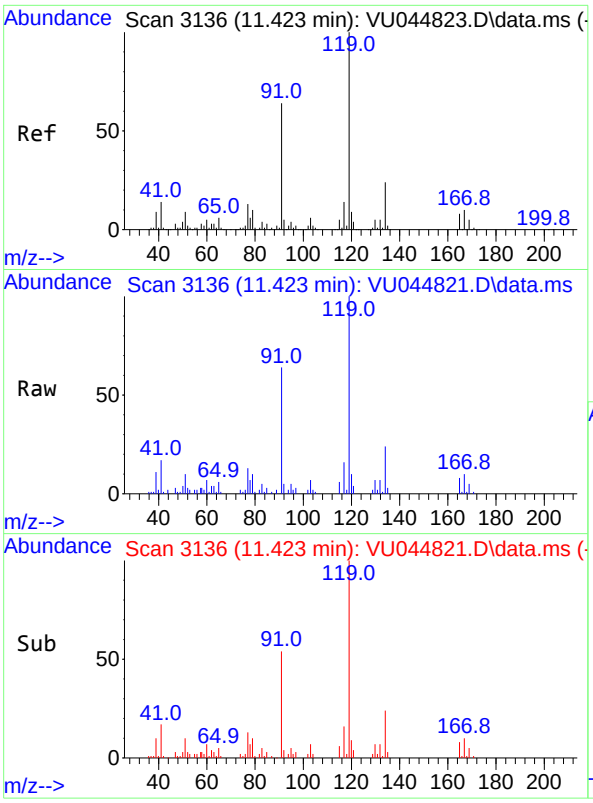
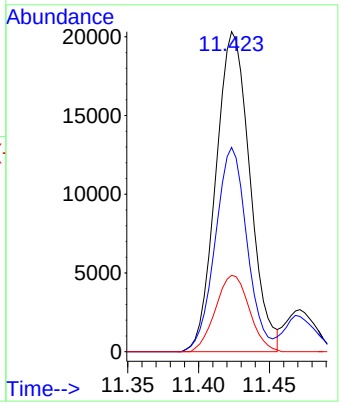
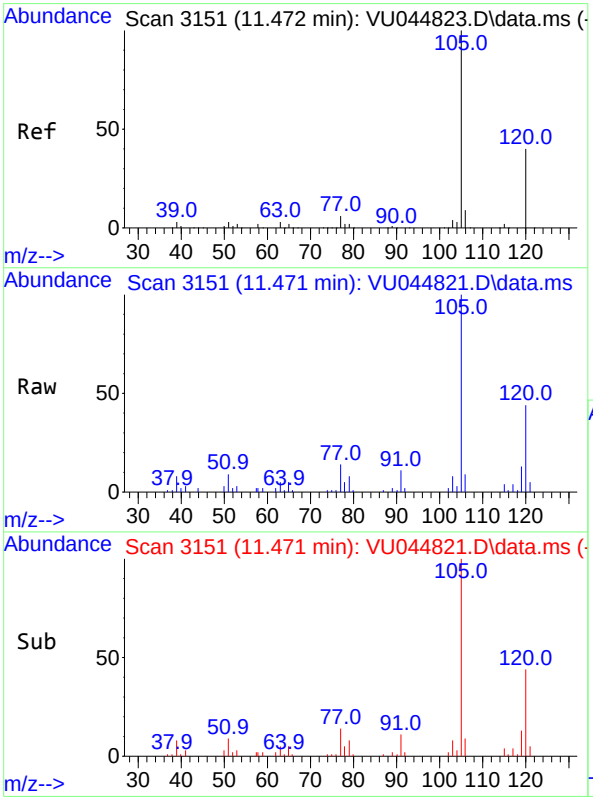


#83
tert-Butylbenzene
Concen: 4.943 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:119 Resp: 33949

Ion	Ratio	Lower	Upper
119	100		
91	59.7	30.4	91.2
134	23.7	11.5	34.5

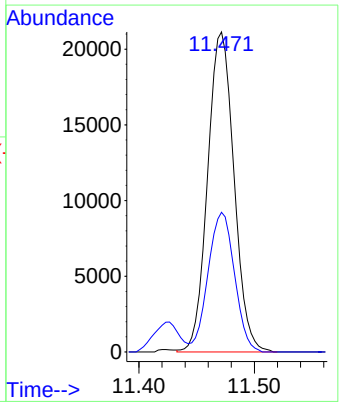




#84
1,2,4-Trimethylbenzene
Concen: 4.593 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:105 Resp: 33544

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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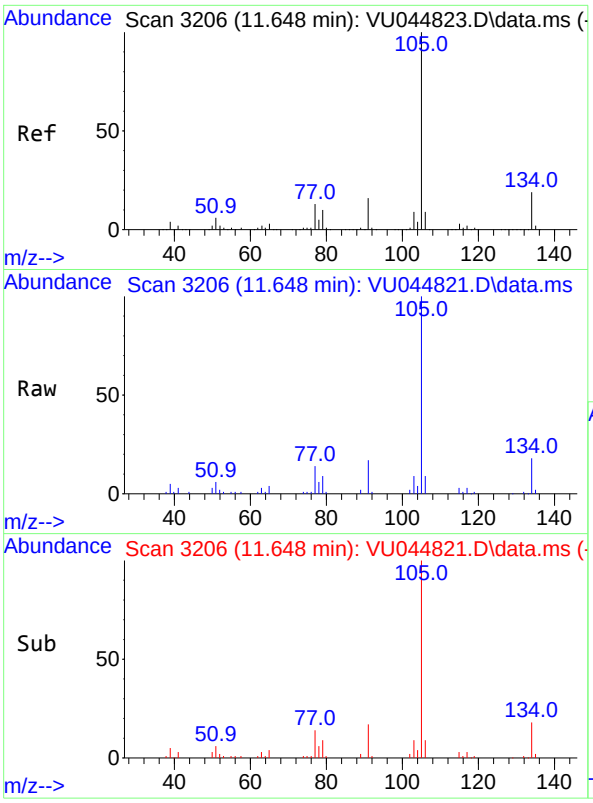
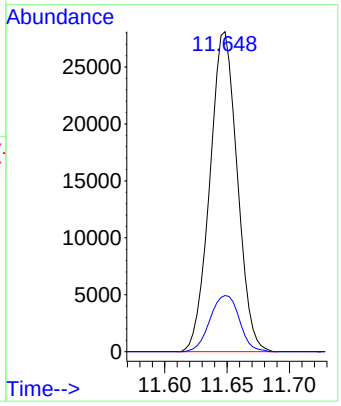
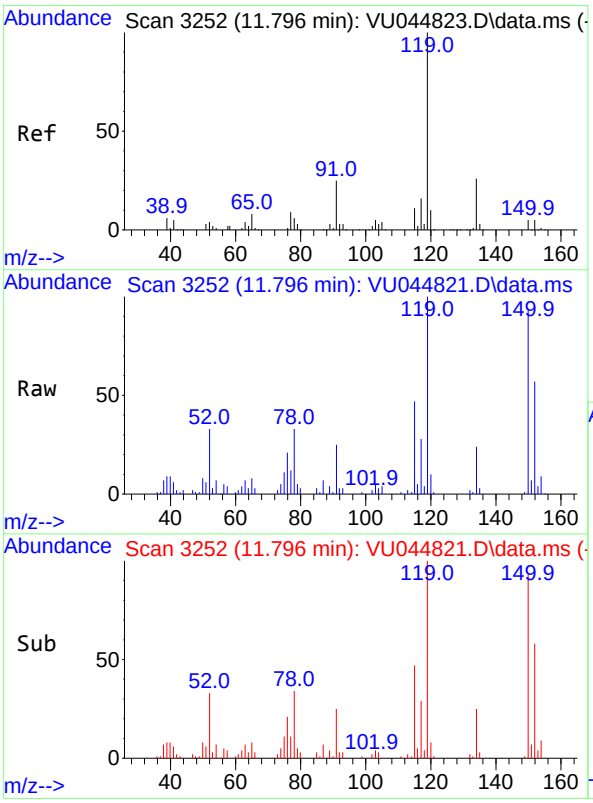


#85
sec-Butylbenzene
Concen: 4.752 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:105 Resp: 43028

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.3	28.0

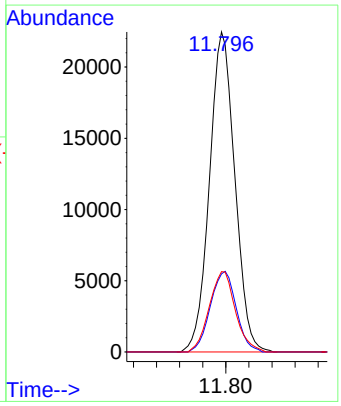




#86
p-Isopropyltoluene
Concen: 4.475 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:119 Resp: 34263

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.3
91	25.9	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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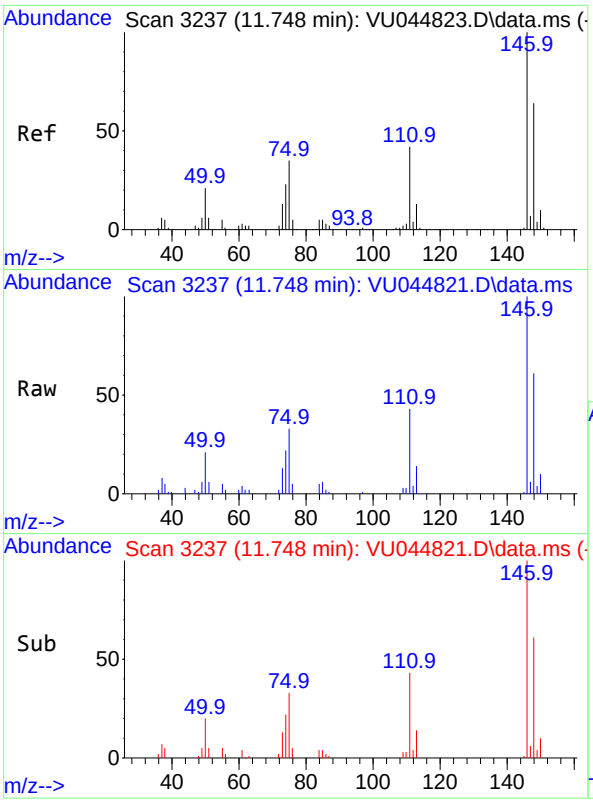
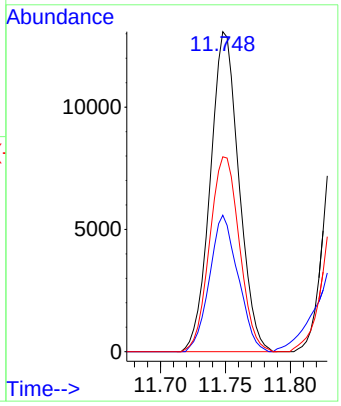
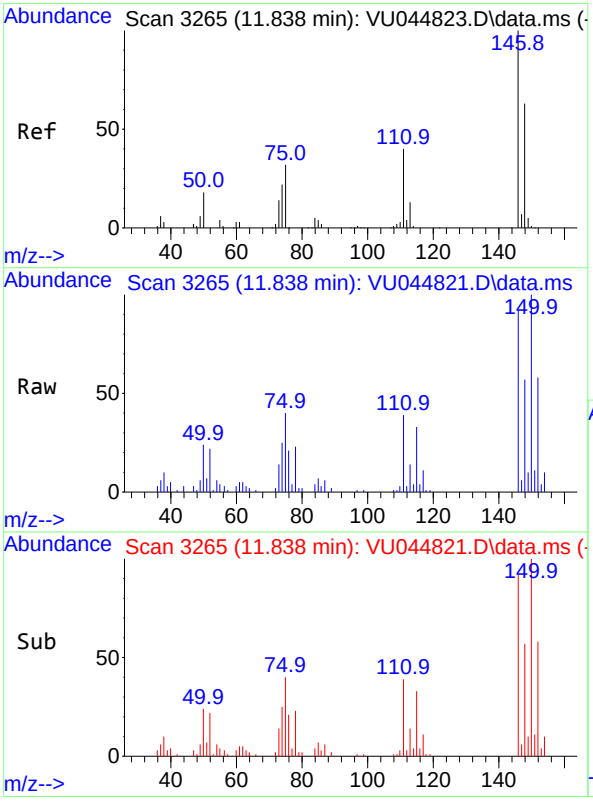


#87
1,3-Dichlorobenzene
Concen: 4.952 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:146 Resp: 20014

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.2	63.6
148	63.4	32.1	96.3

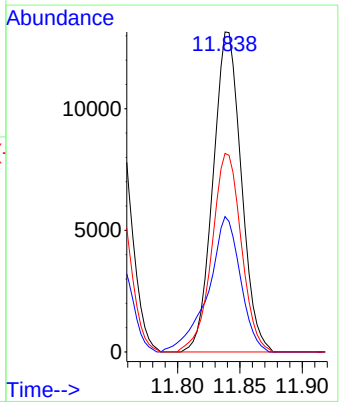




#88
1,4-Dichlorobenzene
Concen: 4.830 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:146 Resp: 20758

Ion	Ratio	Lower	Upper
146	100		
111	48.1	20.3	61.0
148	64.8	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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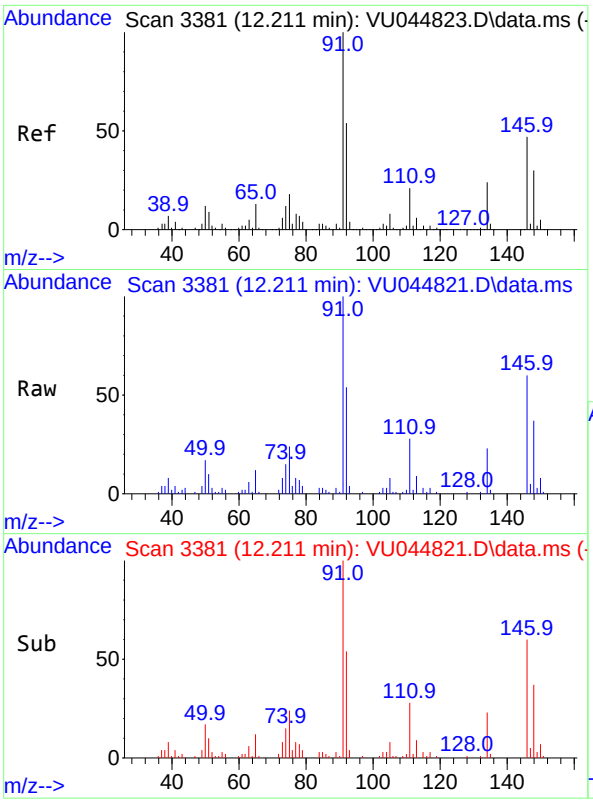
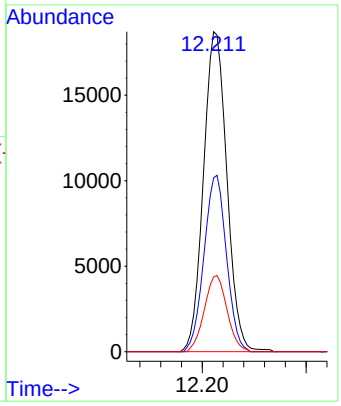
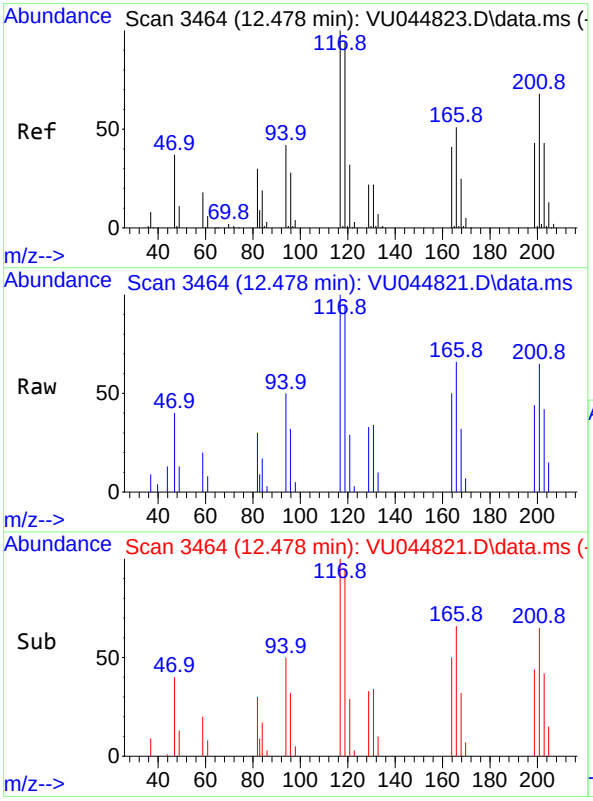


#89
n-Butylbenzene
Concen: 3.792 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 91 Resp: 29263

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.8	80.4
134	23.0	11.8	35.4

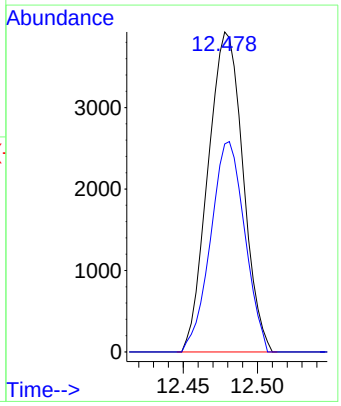




#90
Hexachloroethane
Concen: 5.211 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:117 Resp: 6443

Ion	Ratio	Lower	Upper
117	100		
201	64.1	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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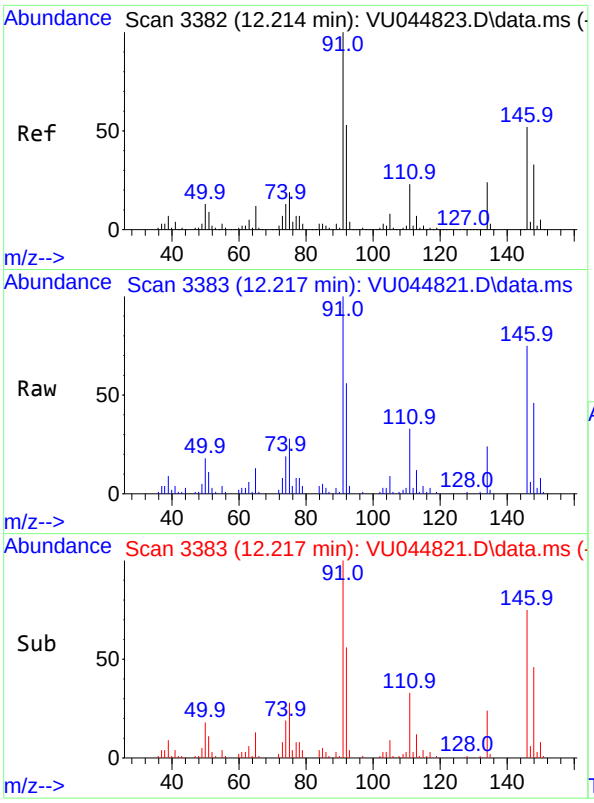
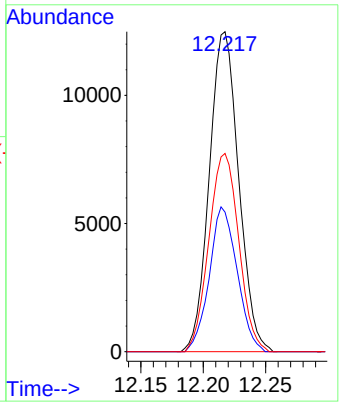
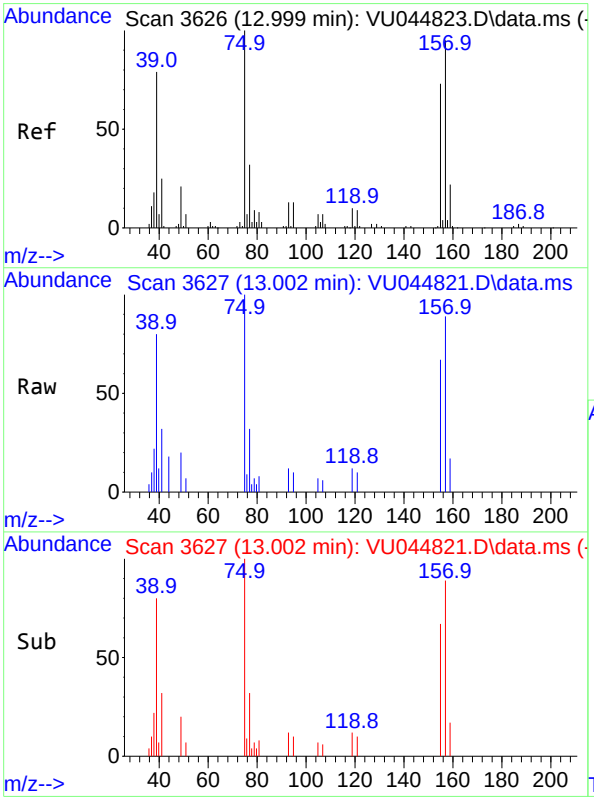


#91
1,2-Dichlorobenzene
Concen: 5.003 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:146 Resp: 20488

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	63.0	31.8	95.3

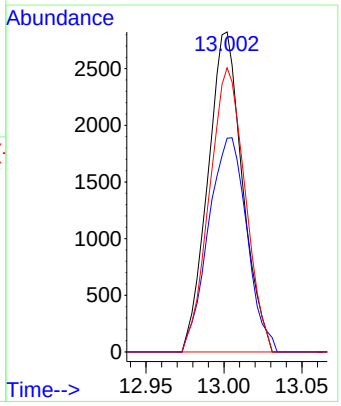




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.200 ug/l
RT: 13.002 min Scan# 3627
Delta R.T. 0.003 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion: 75 Resp: 4355

Ion	Ratio	Lower	Upper
75	100		
155	74.4	36.9	110.6
157	91.3	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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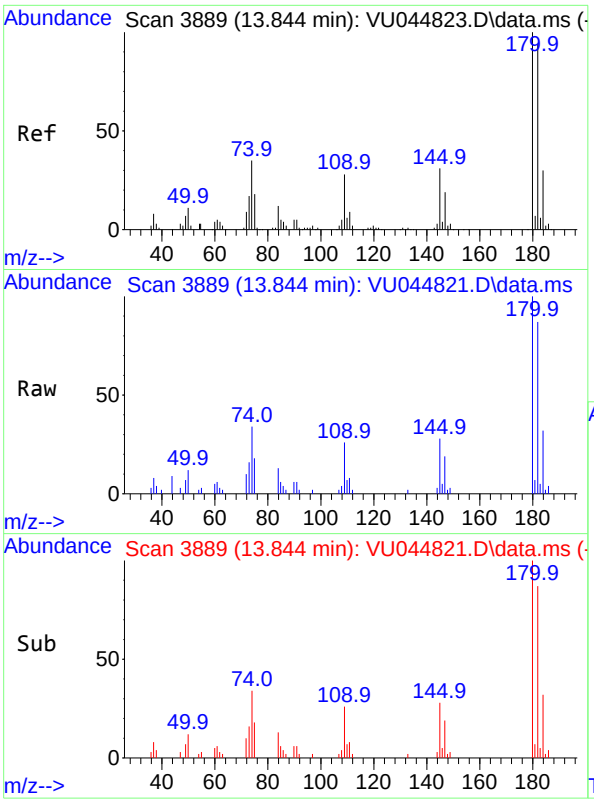
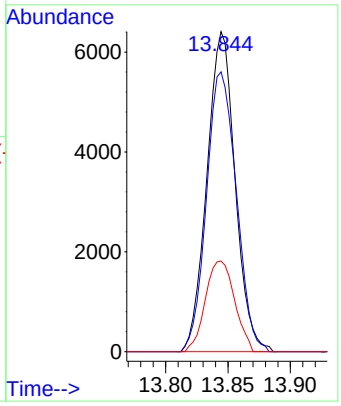
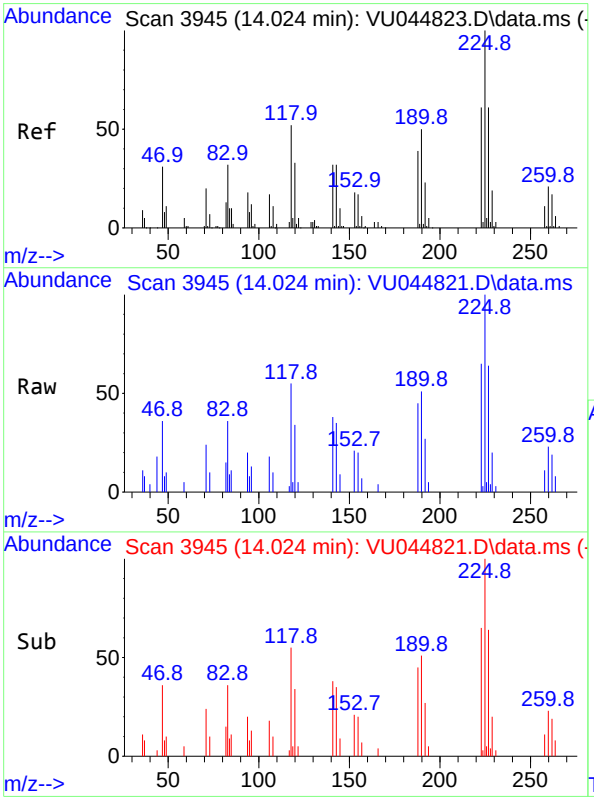


#93
1,2,4-Trichlorobenzene
Concen: 3.960 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:180 Resp: 10111

Ion	Ratio	Lower	Upper
180	100		
182	92.5	47.4	142.3
145	29.3	15.4	46.2

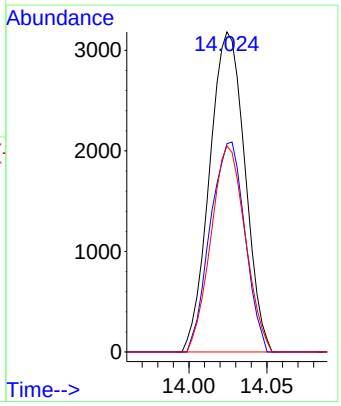




#94
Hexachlorobutadiene
Concen: 3.799 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:225 Resp: 5025

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.1	93.3
227	62.2	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
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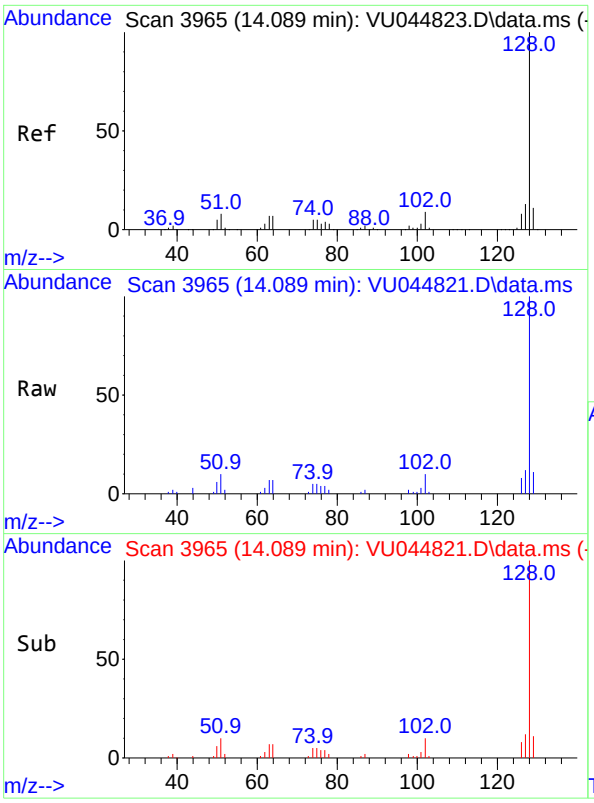
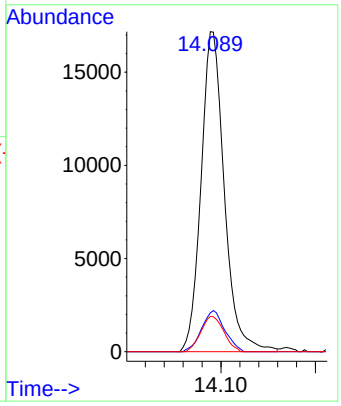
9/27/2021 11:02:35 AM

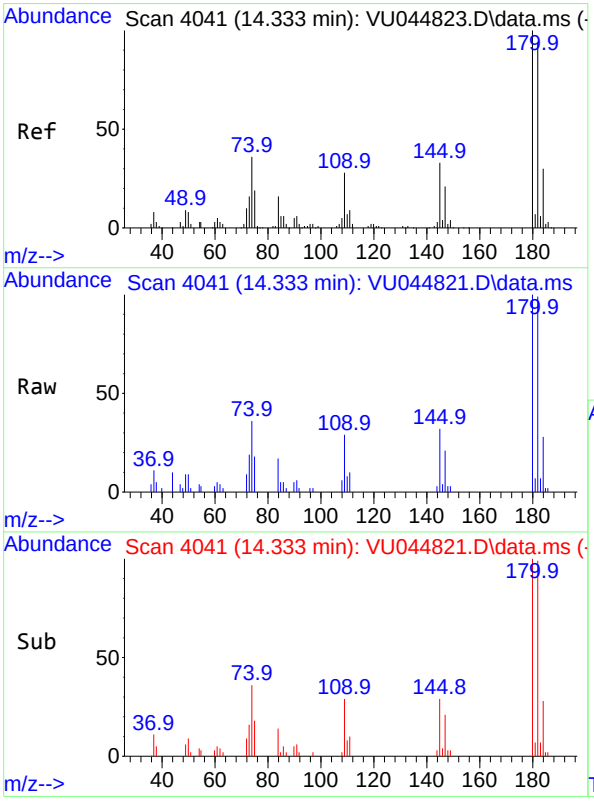


#95
Naphthalene
Concen: 3.537 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:128 Resp: 29314

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.8	8.6	13.0

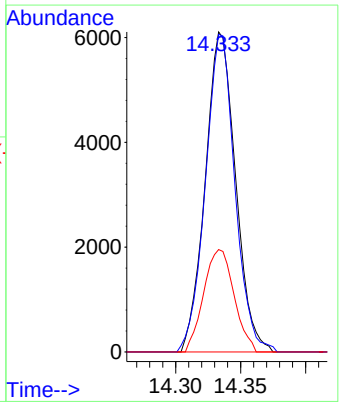




#96
1,2,3-Trichlorobenzene
Concen: 3.948 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044821.D
Acq: 24 Sep 2021 20:06

Tgt Ion:180 Resp: 9891

Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.1	141.4
145	32.1	16.4	49.2



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044822.D
Acq On : 24 Sep 2021 20:29
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 25 00:58:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICC020

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	147578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	264927	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	253555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	127347	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	53561	22.307	ug/l	0.00
Spiked Amount 50.000			Recovery =	44.620%		
35) Dibromofluoromethane	5.295	113	37472	20.392	ug/l	0.00
Spiked Amount 50.000			Recovery =	40.780%		
50) Toluene-d8	7.903	98	140840	19.963	ug/l	0.00
Spiked Amount 50.000			Recovery =	39.920%		
62) 4-Bromofluorobenzene	10.636	95	49850	17.939	ug/l	0.00
Spiked Amount 50.000			Recovery =	35.880%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	37193	18.148	ug/l	100
3) Chloromethane	1.520	50	53056	19.130	ug/l	99
4) Vinyl Chloride	1.607	62	53230	21.205	ug/l	100
5) Bromomethane	1.845	94	30214	28.932	ug/l	100
6) Chloroethane	1.929	64	34842	21.551	ug/l	99
7) Trichlorofluoromethane	2.138	101	64232	21.206	ug/l	100
8) Diethyl Ether	2.379	74	28845	22.785	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.581	101	37460	20.383	ug/l	99
10) Methyl Iodide	2.726	142	38754	18.674	ug/l	100
11) Tert butyl alcohol	3.192	59	70764	107.534	ug/l	98
12) 1,1-Dichloroethene	2.581	96	35540	19.475	ug/l	97
13) Acrolein	2.491	56	17047	50.101	ug/l	97
14) Allyl chloride	2.929	41	69244	20.191	ug/l	100
15) Acrylonitrile	3.318	53	157930	116.365	ug/l	98
16) Acetone	2.630	43	142010	100.569	ug/l	98
17) Carbon Disulfide	2.797	76	99741	17.333	ug/l	100
18) Methyl Acetate	2.951	43	98506	29.608	ug/l	98
19) Methyl tert-butyl Ether	3.369	73	134448	23.334	ug/l	99
20) Methylene Chloride	3.051	84	45437	18.965	ug/l	95
21) trans-1,2-Dichloroethene	3.356	96	39180	19.530	ug/l	97
22) Diisopropyl ether	3.999	45	141474	23.437	ug/l	99
23) Vinyl Acetate	3.961	43	568679	101.920	ug/l	100
24) 1,1-Dichloroethane	3.874	63	82113	20.878	ug/l	99
25) 2-Butanone	4.707	43	225077	111.479	ug/l	99
26) 2,2-Dichloropropane	4.671	77	59286	19.284	ug/l	99
27) cis-1,2-Dichloroethene	4.674	96	46158	20.378	ug/l	99
28) Bromochloromethane	4.980	49	36375	19.444	ug/l	99
29) Tetrahydrofuran	5.057	42	141605	125.748	ug/l	99
30) Chloroform	5.096	83	81387	21.187	ug/l	97
31) Cyclohexane	5.391	56	74413	21.834	ug/l	97
32) 1,1,1-Trichloroethane	5.321	97	64469	20.234	ug/l	99
36) 1,1-Dichloropropene	5.530	75	57402	19.462	ug/l	99
37) Ethyl Acetate	4.806	43	82194	22.559	ug/l	99
38) Carbon Tetrachloride	5.530	117	51392	19.290	ug/l	99
39) Methylcyclohexane	6.768	83	63494	19.900	ug/l	99
40) Benzene	5.777	78	172342	19.690	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044822.D
Acq On : 24 Sep 2021 20:29
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 25 00:58:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICC020

Manual Integrations APPROVED
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9/27/2021 11:02:37 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.977	41	42735	22.988	ug/l		99
42) 1,2-Dichloroethane	5.800	62	69013	21.919	ug/l		99
43) Isopropyl Acetate	5.916	43	115099	22.355	ug/l		100
44) Trichloroethene	6.546	130	40186	19.885	ug/l		98
45) 1,2-Dichloropropane	6.797	63	48216	20.072	ug/l		96
46) Dibromomethane	6.922	93	31622	20.459	ug/l		98
47) Bromodichloromethane	7.108	83	60336	19.866	ug/l		99
48) Methyl methacrylate	6.964	41	53530	21.403	ug/l		98
49) 1,4-Dioxane	6.973	88	29587	453.819	ug/l		99
51) 4-Methyl-2-Pentanone	7.793	43	412046	110.975	ug/l		100
52) Toluene	7.973	92	106223	20.491	ug/l		98
53) t-1,3-Dichloropropene	8.214	75	62314	18.898	ug/l		100
54) cis-1,3-Dichloropropene	7.610	75	68027	19.137	ug/l		100
55) 1,1,2-Trichloroethane	8.404	97	44378	20.277	ug/l		99
56) Ethyl methacrylate	8.337	69	68464	20.456	ug/l		98
57) 1,3-Dichloropropane	8.581	76	79593	20.476	ug/l		98
58) 2-Chloroethyl Vinyl ether	7.469	63	63441	64.394	ug/l		99
59) 2-Hexanone	8.687	43	330453	111.368	ug/l		99
60) Dibromochloromethane	8.813	129	41585	19.229	ug/l		99
61) 1,2-Dibromoethane	8.928	107	45565	19.796	ug/l		98
64) Tetrachloroethene	8.555	164	36295	20.656	ug/l		97
65) Chlorobenzene	9.449	112	106538	19.590	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	37466	19.695	ug/l		98
67) Ethyl Benzene	9.575	91	190230	19.525	ug/l		99
68) m/p-Xylenes	9.697	106	148610	40.714	ug/l		99
69) o-Xylene	10.105	106	70885	20.414	ug/l		98
70) Styrene	10.118	104	120797	20.093	ug/l		99
71) Bromoform	10.295	173	30172	18.801	ug/l	#	99
73) Isopropylbenzene	10.488	105	188519	21.836	ug/l		99
74) N-amyl acetate	10.324	43	89463	22.418	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.787	83	79256	20.992	ug/l		100
76) 1,2,3-Trichloropropane	10.829	75	75462m	18.014	ug/l		
77) Bromobenzene	10.784	156	44680	20.633	ug/l		97
78) n-propylbenzene	10.909	91	225222	20.164	ug/l		100
79) 2-Chlorotoluene	10.989	91	137762	20.783	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	160985	21.101	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.549	75	21994	18.598	ug/l		95
82) 4-Chlorotoluene	11.099	91	158760	20.393	ug/l		100
83) tert-Butylbenzene	11.423	119	150111	20.908	ug/l		99
84) 1,2,4-Trimethylbenzene	11.472	105	159038	20.831	ug/l		99
85) sec-Butylbenzene	11.648	105	200725	21.204	ug/l		99
86) p-Isopropyltoluene	11.796	119	164668	20.573	ug/l		100
87) 1,3-Dichlorobenzene	11.748	146	84547	20.012	ug/l		99
88) 1,4-Dichlorobenzene	11.838	146	86103	19.165	ug/l		98
89) n-Butylbenzene	12.211	91	142853	17.707	ug/l		99
90) Hexachloroethane	12.478	117	27241	21.074	ug/l		97
91) 1,2-Dichlorobenzene	12.214	146	87329	20.401	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.999	75	19310	22.053	ug/l		99
93) 1,2,4-Trichlorobenzene	13.844	180	47813	17.912	ug/l		99
94) Hexachlorobutadiene	14.025	225	21615	15.630	ug/l		96
95) Naphthalene	14.089	128	164547	18.991	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	50564	19.306	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044822.D
Acq On : 24 Sep 2021 20:29
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 25 00:58:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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9/27/2021 11:02:37 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

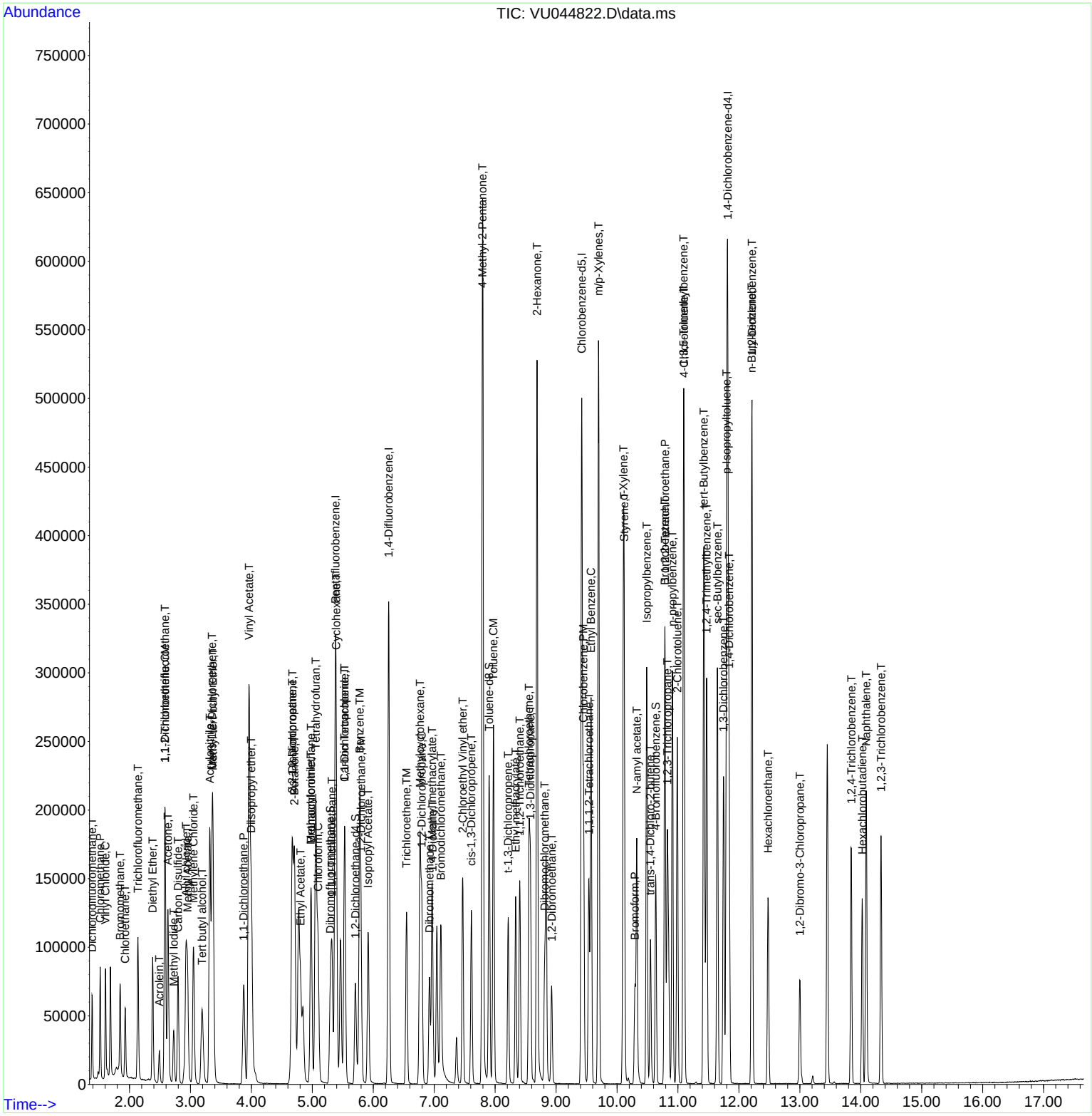
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044822.D
Acq On : 24 Sep 2021 20:29
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 25 00:58:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

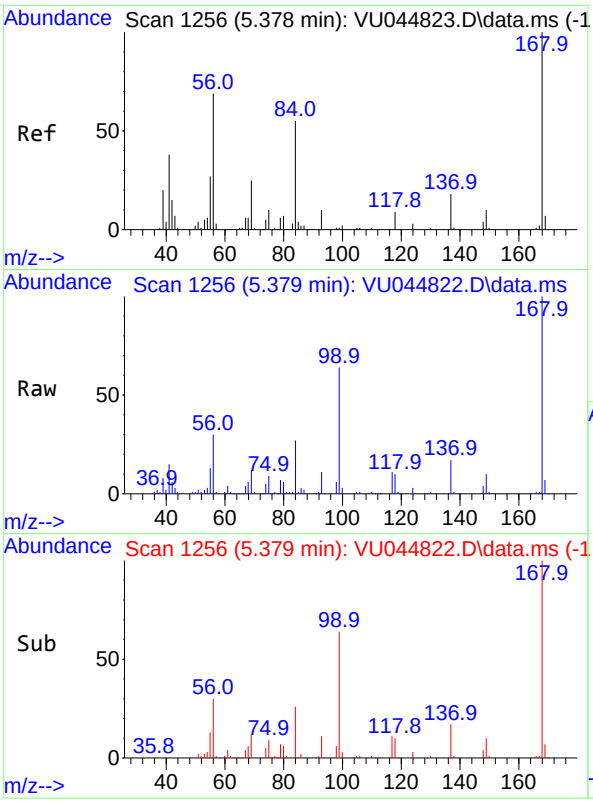
Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:37 AM



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

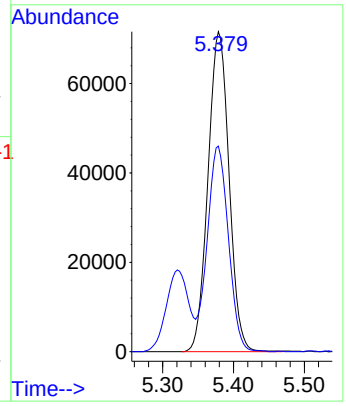
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:37 AM

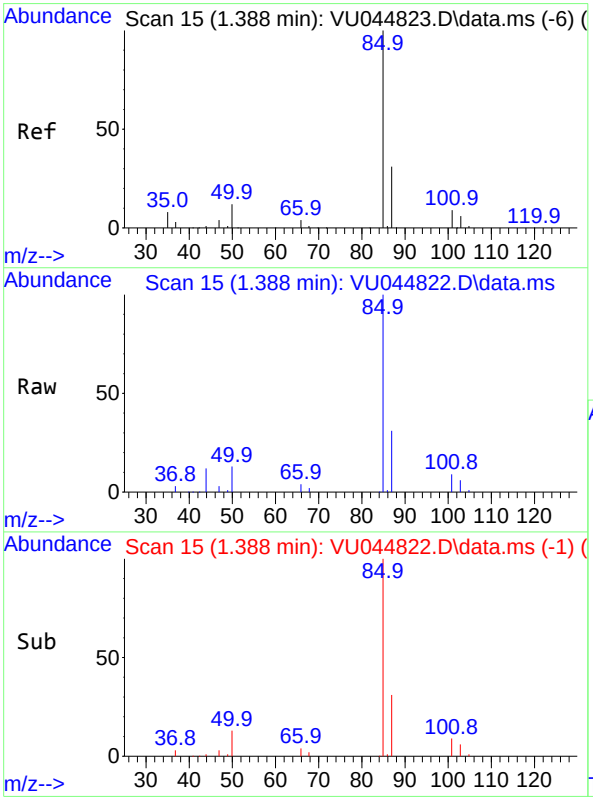


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:168 Resp: 147578

Ion	Ratio	Lower	Upper
168	100		
99	64.1	51.4	77.0

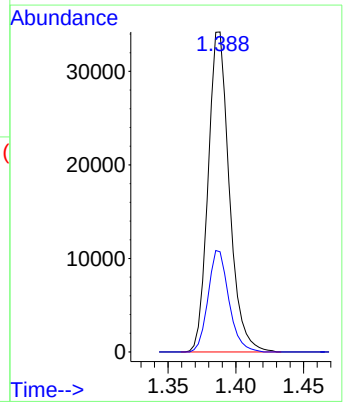




#2
Dichlorodifluoromethane
Concen: 18.148 ug/l
RT: 1.388 min Scan# 15
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

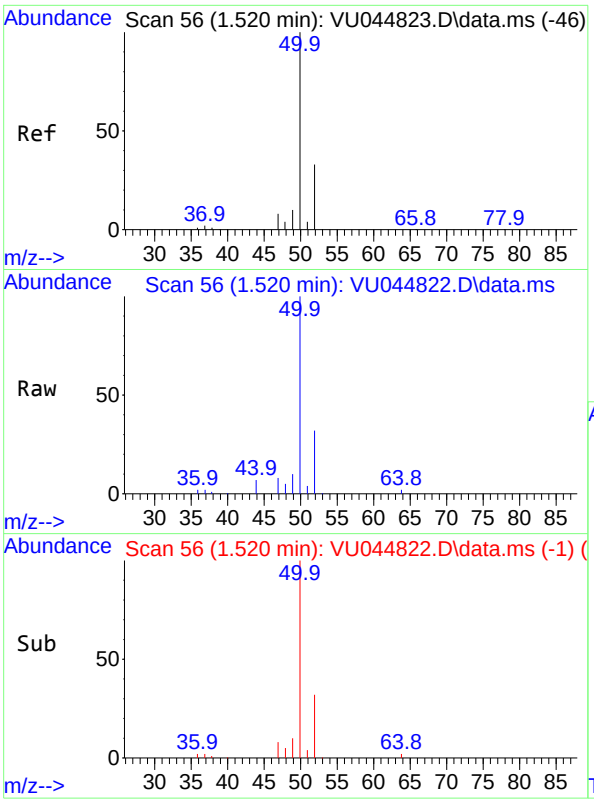
Tgt Ion: 85 Resp: 37193

Ion	Ratio	Lower	Upper
85	100		
87	31.3	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

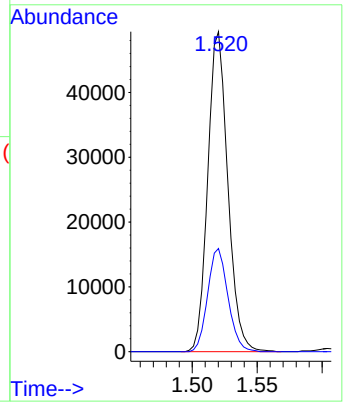
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:37 AM

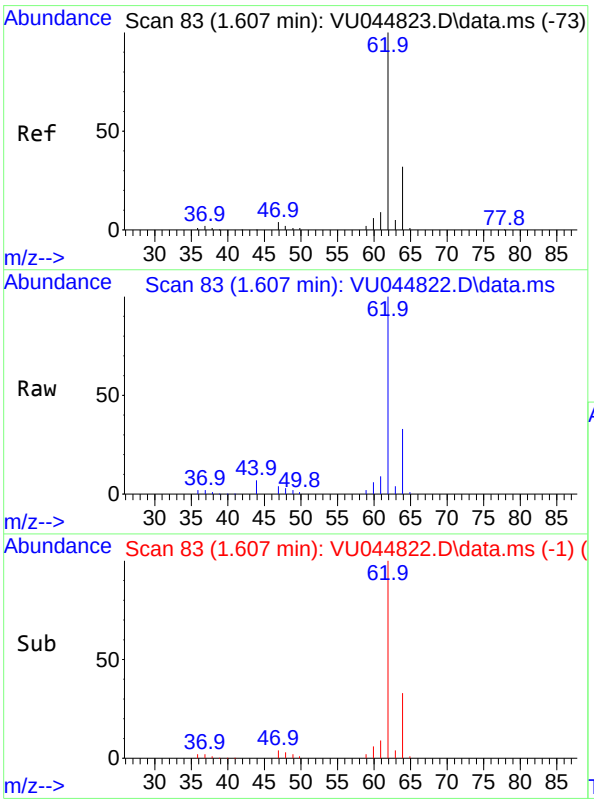


#3
Chloromethane
Concen: 19.130 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 50 Resp: 53056

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.3	39.5

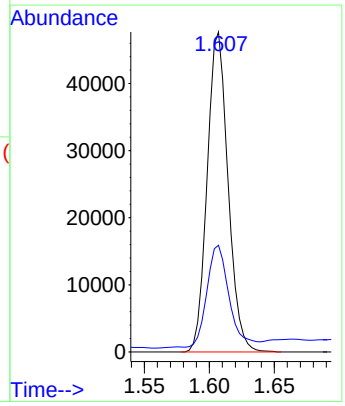




#4
Vinyl Chloride
Concen: 21.205 ug/l
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

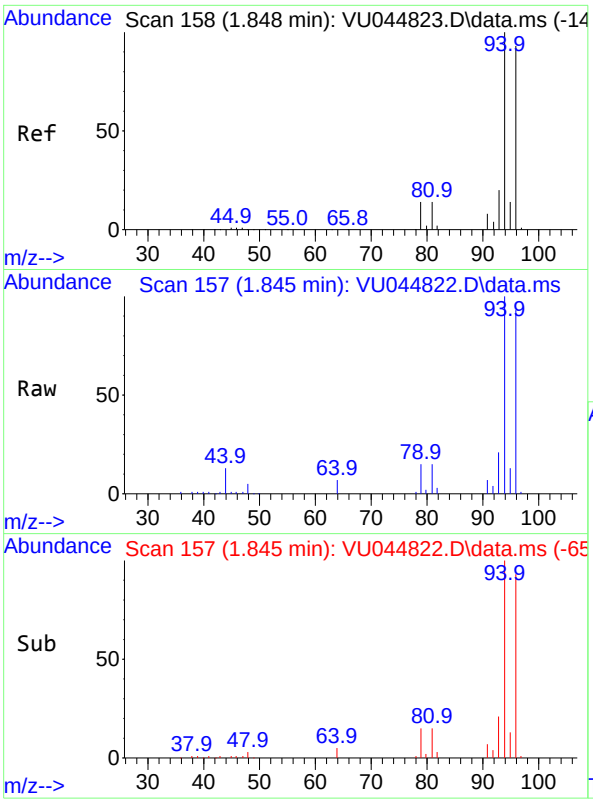
Tgt Ion: 62 Resp: 53230

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

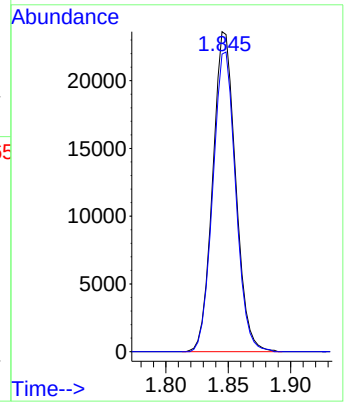
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:37 AM

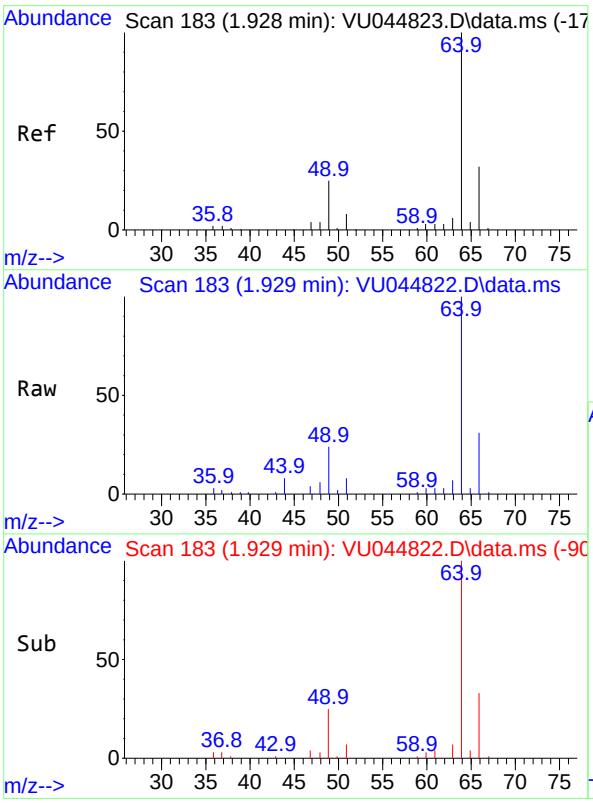


#5
Bromomethane
Concen: 28.932 ug/l
RT: 1.845 min Scan# 157
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 94 Resp: 30214

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.5	111.7

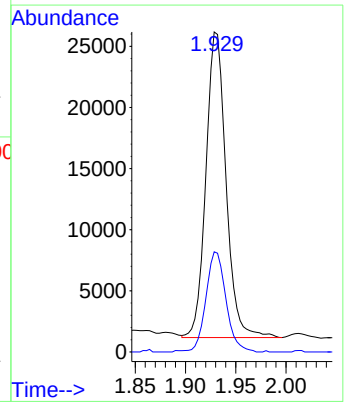




#6
Chloroethane
Concen: 21.551 ug/l
RT: 1.929 min Scan# 183
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

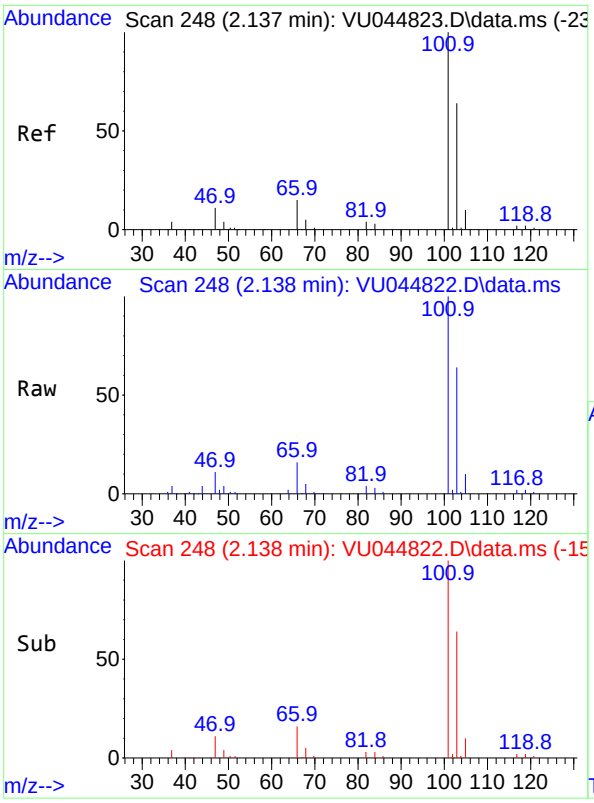
Tgt Ion: 64 Resp: 34842

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

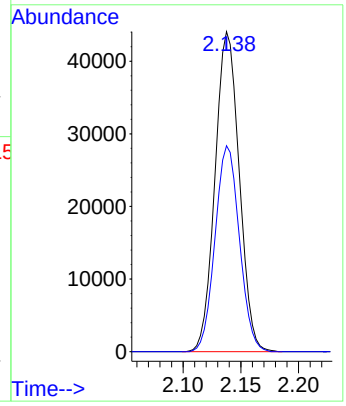
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:37 AM

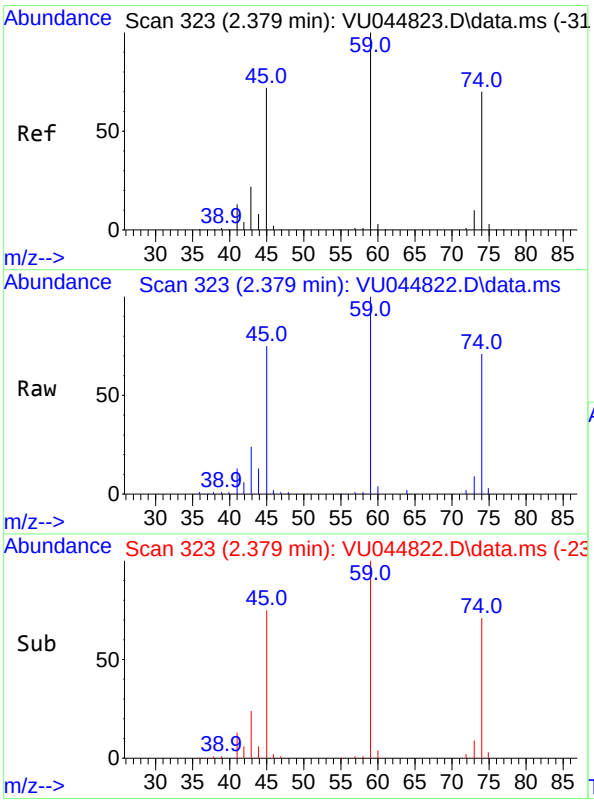


#7
Trichlorofluoromethane
Concen: 21.206 ug/l
RT: 2.138 min Scan# 248
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:101 Resp: 64232

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.2	76.8

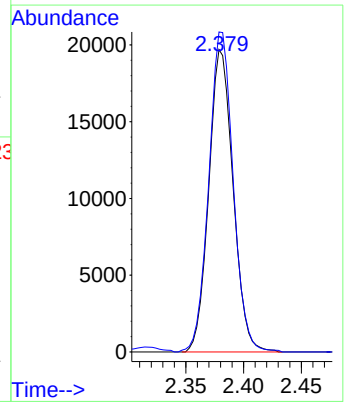




#8
Diethyl Ether
Concen: 22.785 ug/l
RT: 2.379 min Scan# 323
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 74 Resp: 28845

Ion	Ratio	Lower	Upper
74	100		
45	106.3	52.2	156.6



Instrument :
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ClientSampleId :
VSTDICC020

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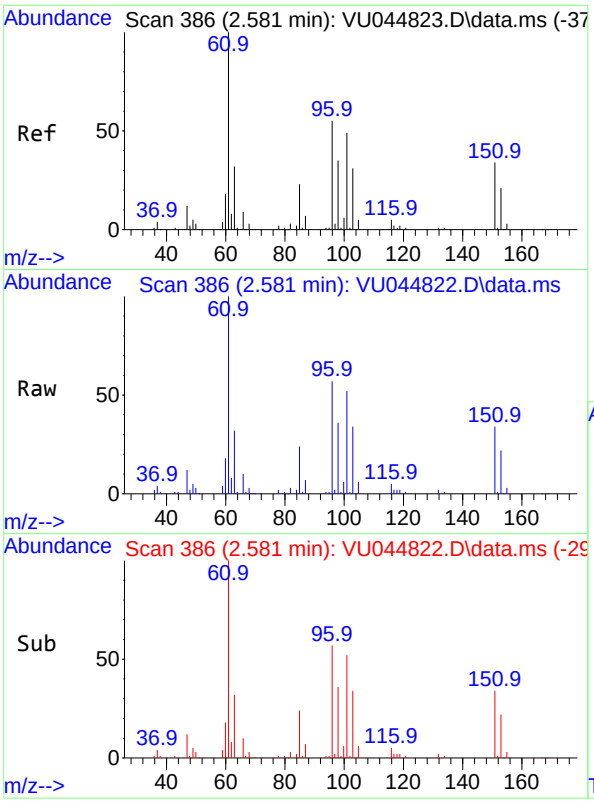
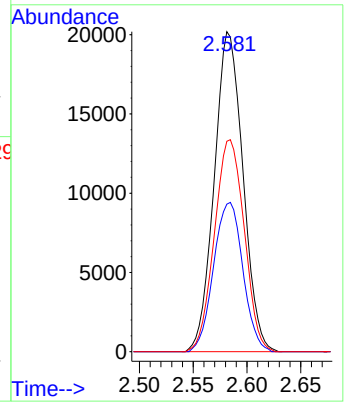
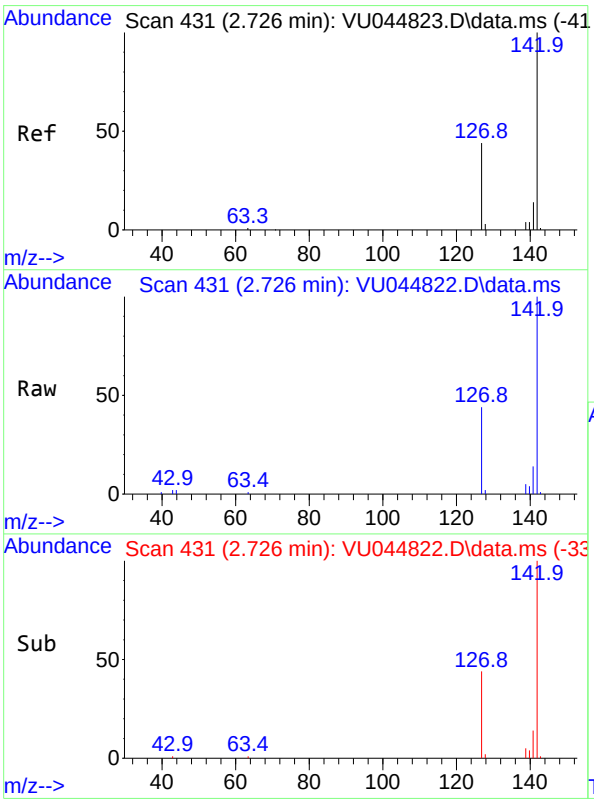


#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.383 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:101 Resp: 37460

Ion	Ratio	Lower	Upper
101	100		
85	47.6	37.2	55.8
151	68.9	55.8	83.8

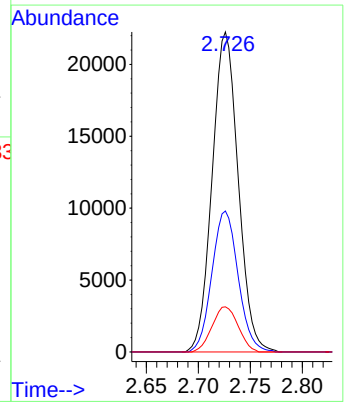




#10
Methyl Iodide
Concen: 18.674 ug/l
RT: 2.726 min Scan# 431
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:142 Resp: 38754

Ion	Ratio	Lower	Upper
142	100		
127	44.4	35.6	53.4
141	14.2	11.3	16.9



Instrument :
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ClientSampleId :
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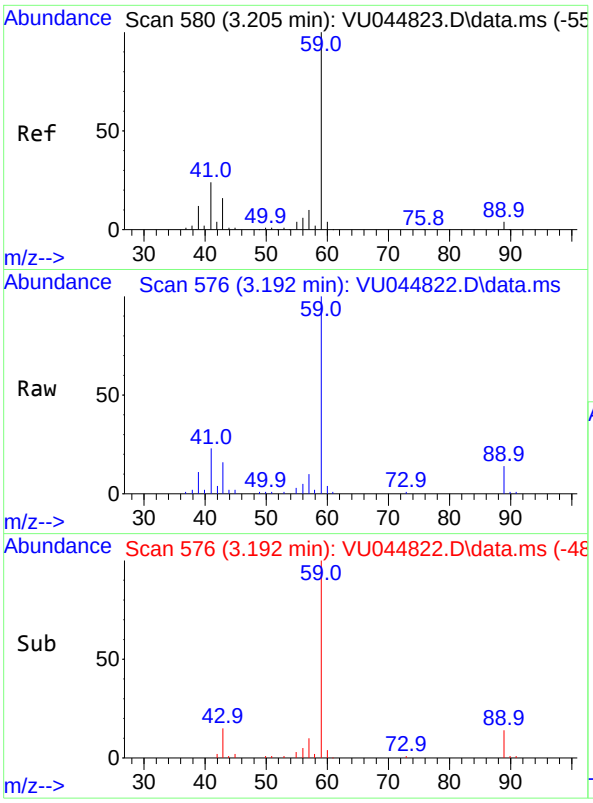
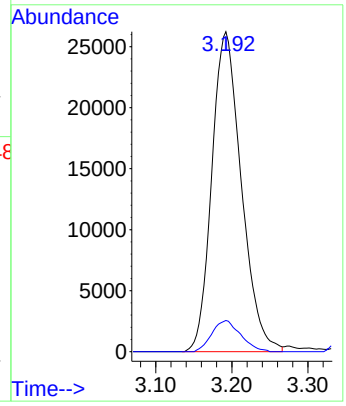
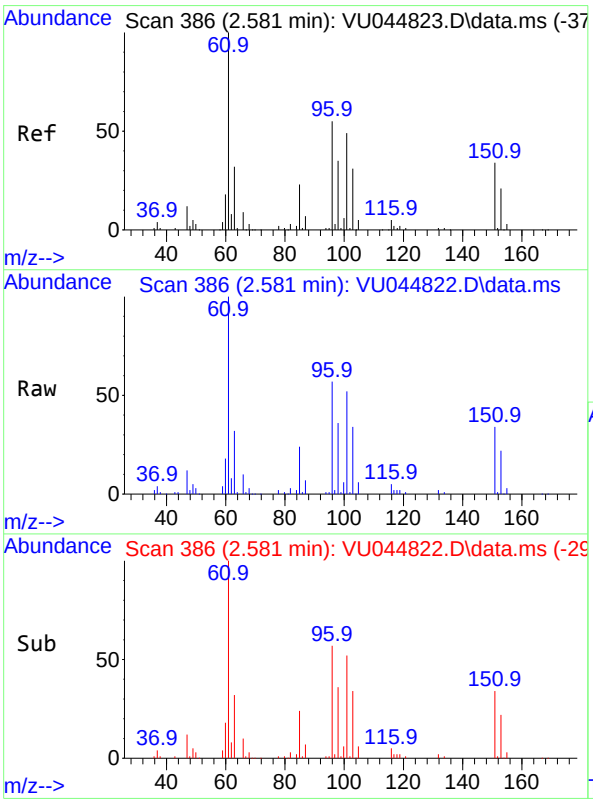


#11
Tert butyl alcohol
Concen: 107.534 ug/l
RT: 3.192 min Scan# 576
Delta R.T. -0.013 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 59 Resp: 70764

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.3	12.5

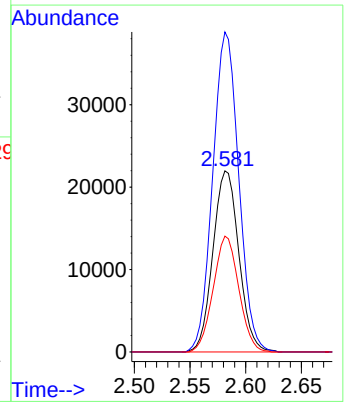




#12
1,1-Dichloroethene
Concen: 19.475 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 96 Resp: 35540

Ion	Ratio	Lower	Upper
96	100		
61	176.7	145.4	218.0
98	64.0	50.9	76.3



Instrument :
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ClientSampleId :
VSTDICC020

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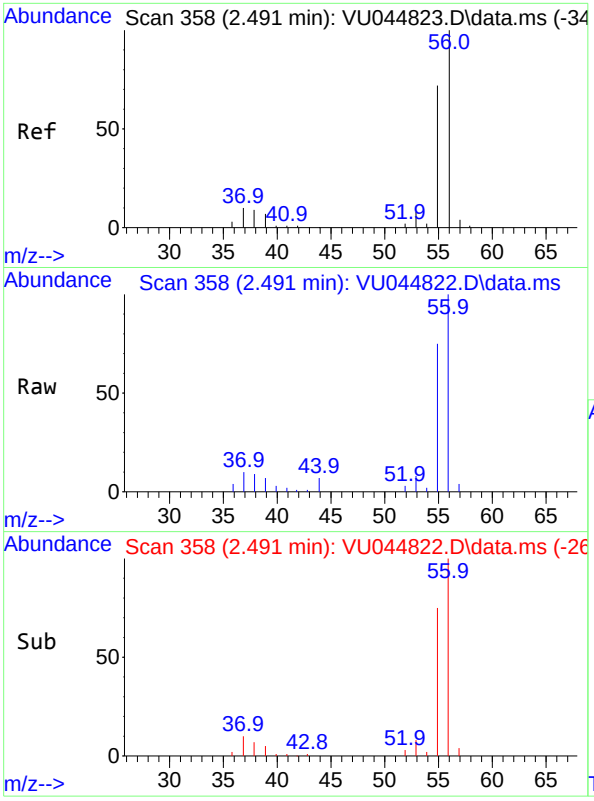
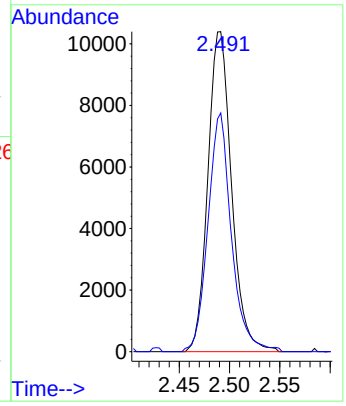
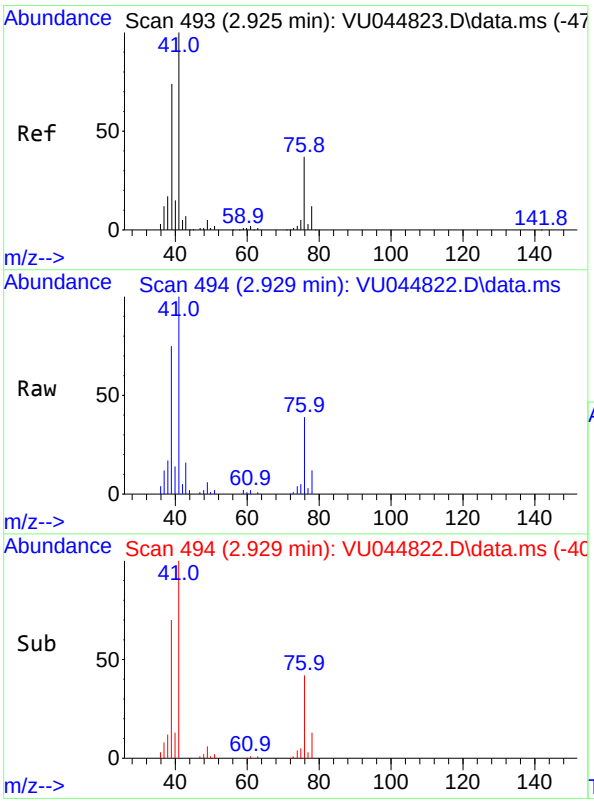


#13
Acrolein
Concen: 50.101 ug/l
RT: 2.491 min Scan# 358
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 56 Resp: 17047

Ion	Ratio	Lower	Upper
56	100		
55	73.8	57.4	86.0

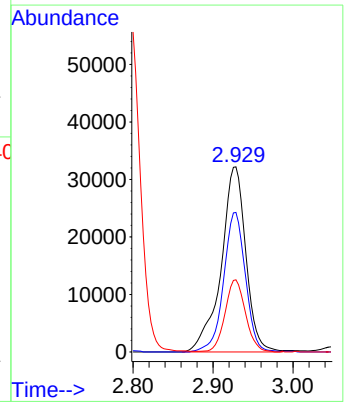




#14
Allyl chloride
Concen: 20.191 ug/l
RT: 2.929 min Scan# 494
Delta R.T. 0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 41 Resp: 69244

Ion	Ratio	Lower	Upper
41	100		
39	66.2	53.0	79.6
76	32.3	25.7	38.5



Instrument :
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ClientSampleId :
VSTDICC020

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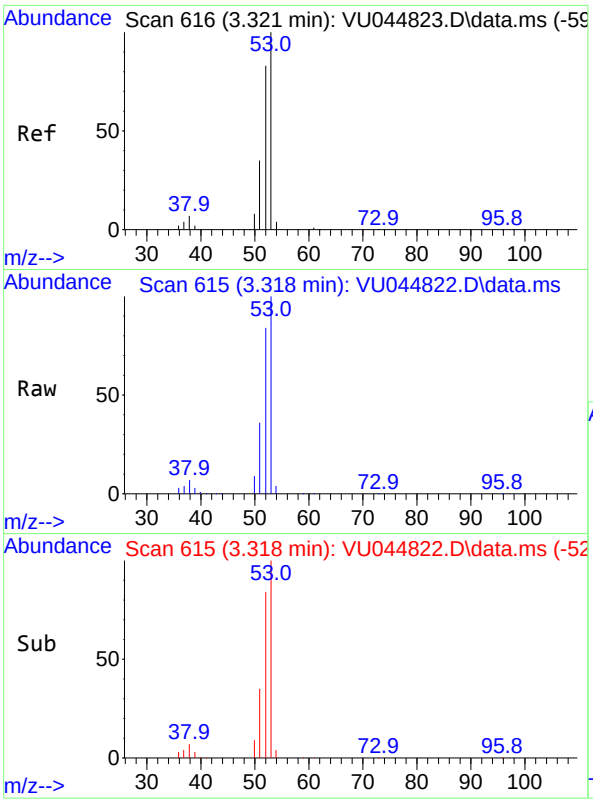
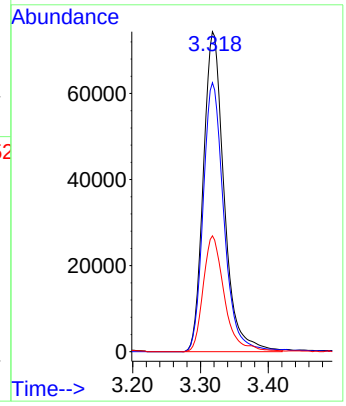
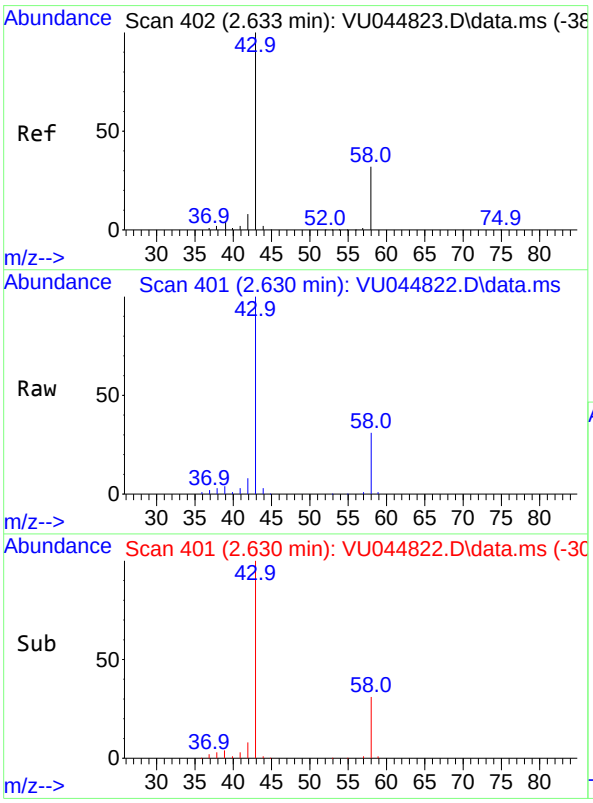


#15
Acrylonitrile
Concen: 116.365 ug/l
RT: 3.318 min Scan# 615
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 53 Resp: 157930

Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.0	99.0
51	37.0	28.6	42.8

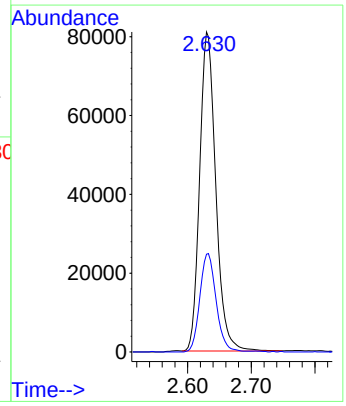




#16
Acetone
Concen: 100.569 ug/l
RT: 2.630 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 142010

Ion	Ratio	Lower	Upper
43	100		
58	30.6	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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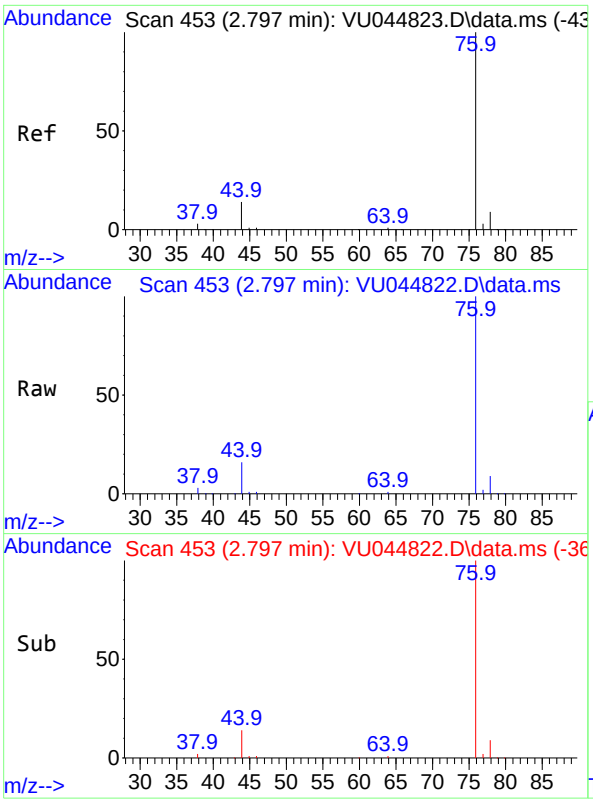
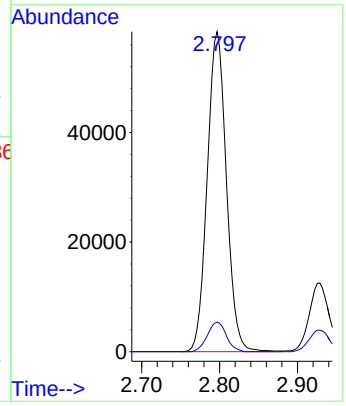
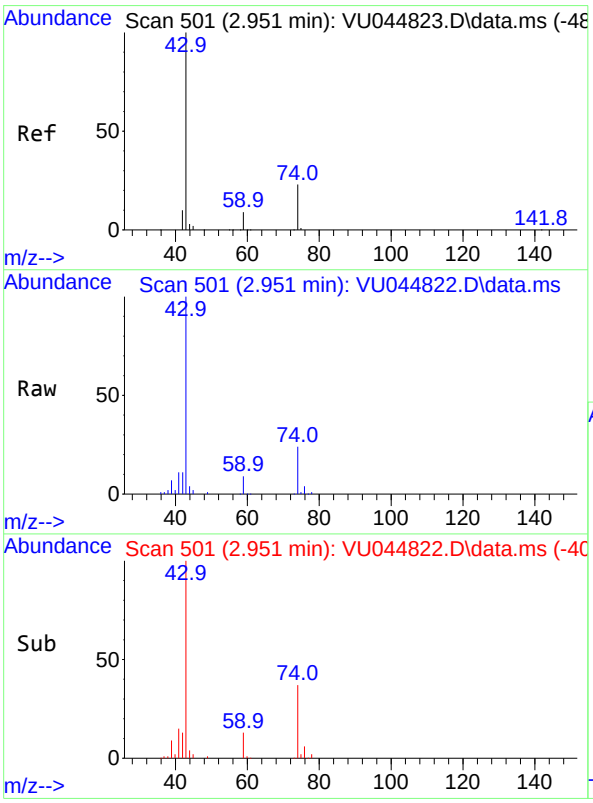


#17
Carbon Disulfide
Concen: 17.333 ug/l
RT: 2.797 min Scan# 453
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 76 Resp: 99741

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

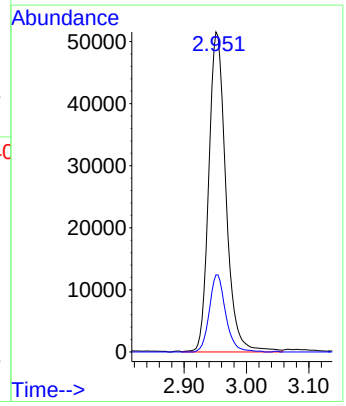




#18
Methyl Acetate
Concen: 29.608 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 98506

Ion	Ratio	Lower	Upper
43	100		
74	23.0	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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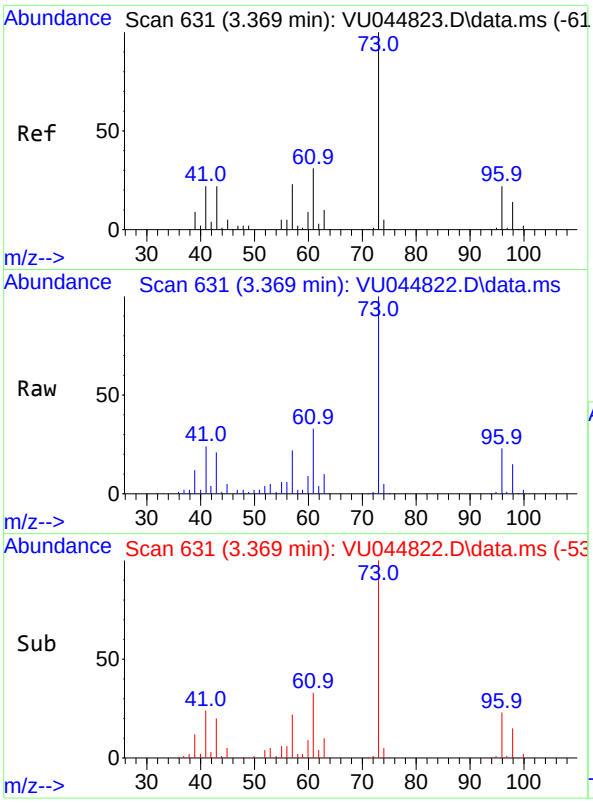
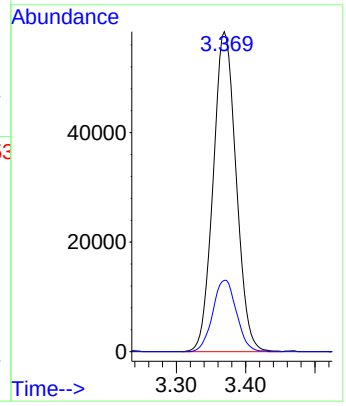
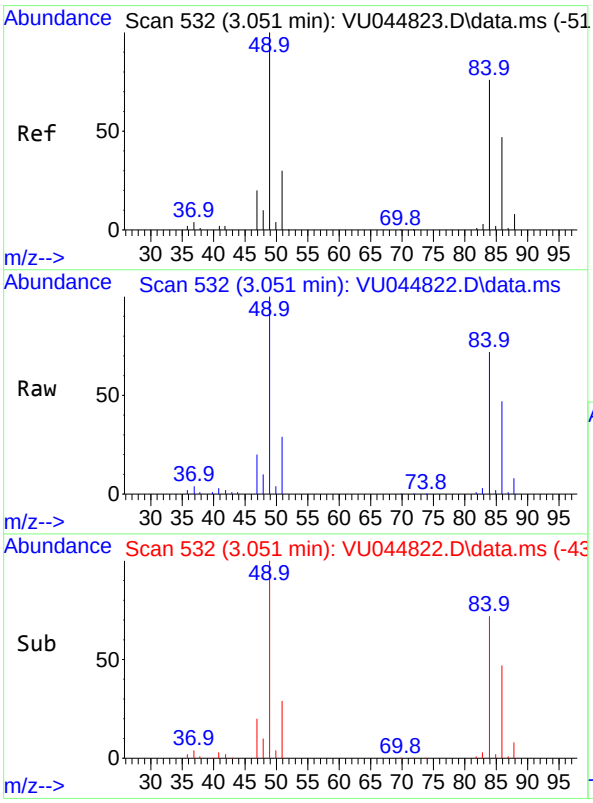


#19
Methyl tert-butyl Ether
Concen: 23.334 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 73 Resp: 134448

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.2	27.2

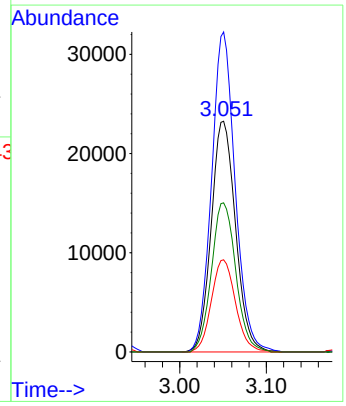




#20
Methylene Chloride
Concen: 18.965 ug/l
RT: 3.051 min Scan# 532
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 84 Resp: 45437

Ion	Ratio	Lower	Upper
84	100		
49	138.7	104.9	157.3
51	39.9	31.8	47.8
86	64.6	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
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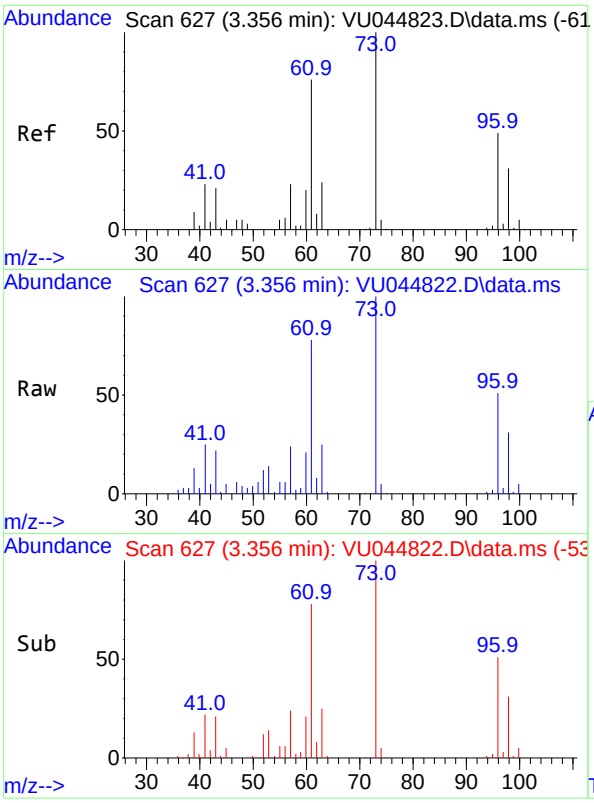
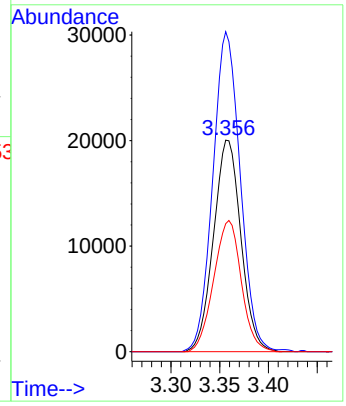
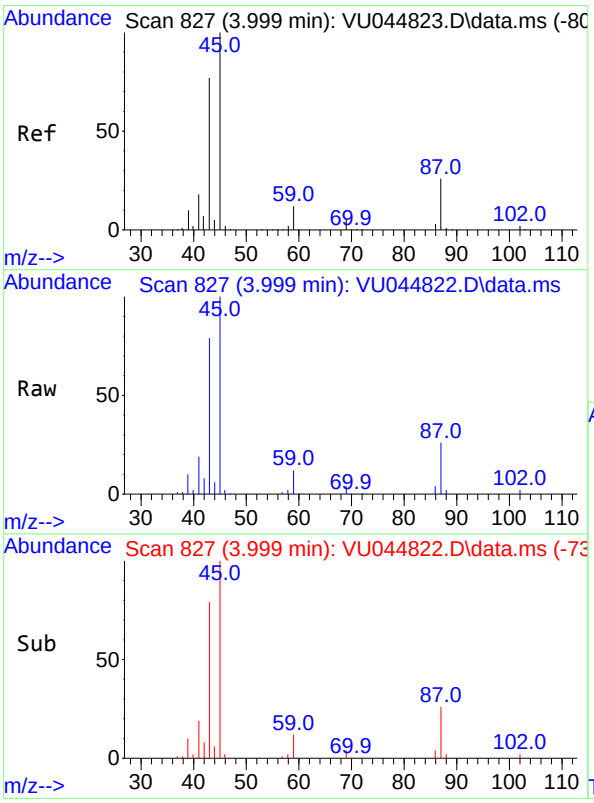


#21
trans-1,2-Dichloroethene
Concen: 19.530 ug/l
RT: 3.356 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 96 Resp: 39180

Ion	Ratio	Lower	Upper
96	100		
61	151.3	123.2	184.8
98	60.5	51.0	76.6

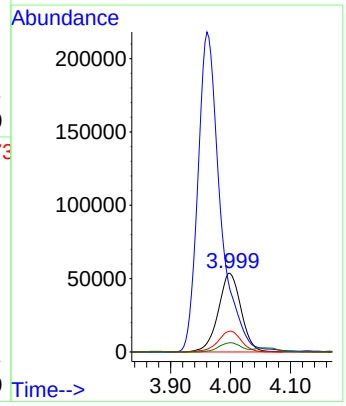




#22
Diisopropyl ether
Concen: 23.437 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 45 Resp: 141474

Ion	Ratio	Lower	Upper
45	100		
43	76.7	62.3	93.5
87	26.4	21.0	31.4
59	11.7	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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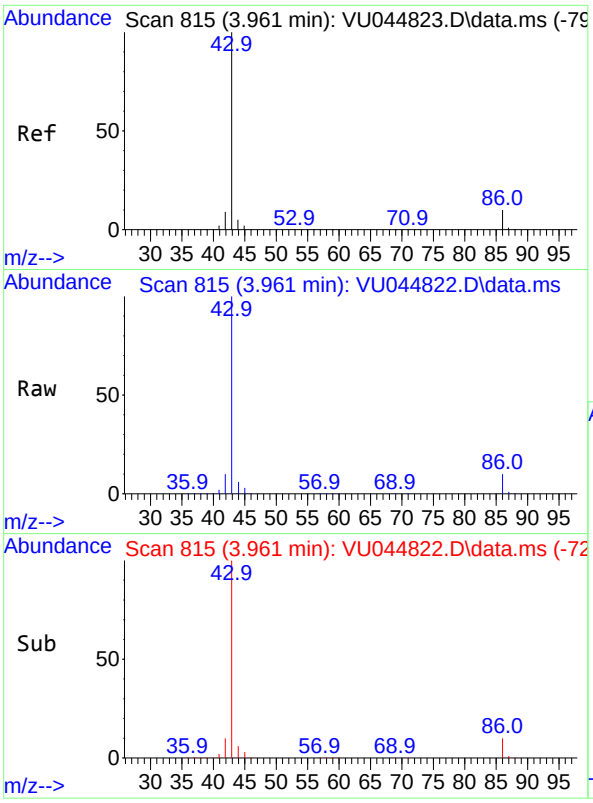
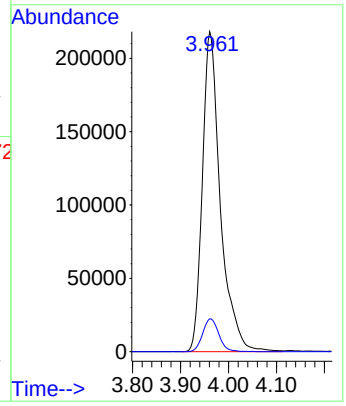
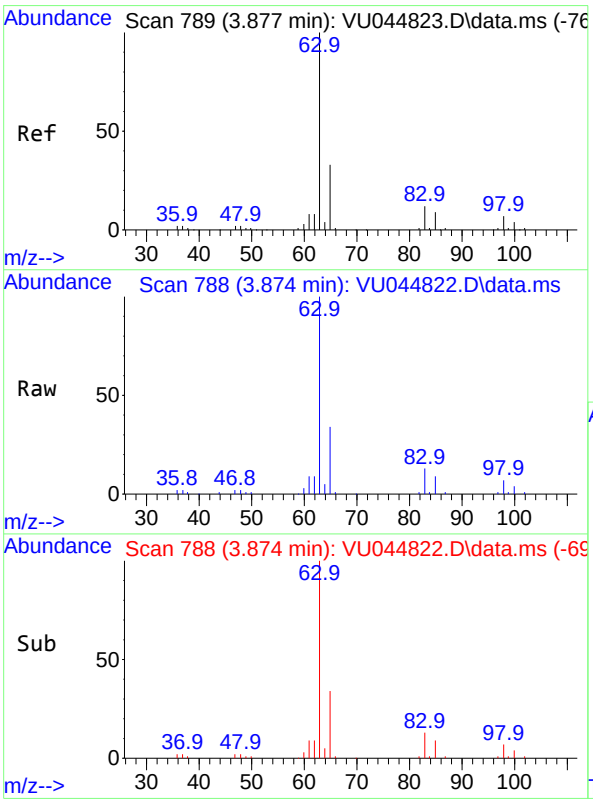


#23
Vinyl Acetate
Concen: 101.920 ug/l
RT: 3.961 min Scan# 815
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 568679

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.4

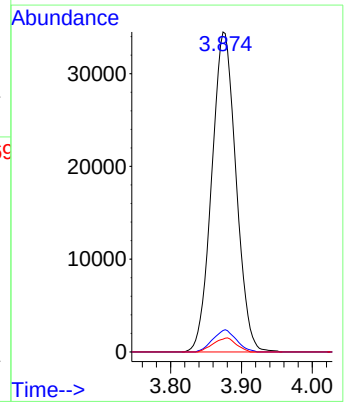




#24
1,1-Dichloroethane
Concen: 20.878 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 63 Resp: 82113

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.4
100	4.0	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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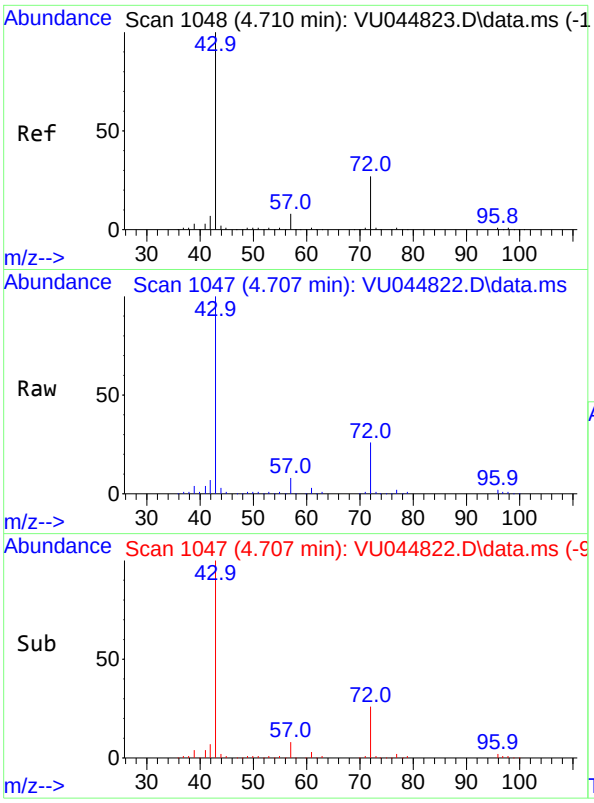
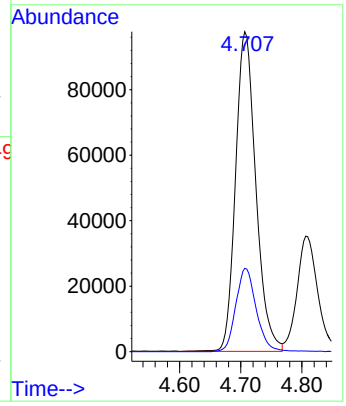
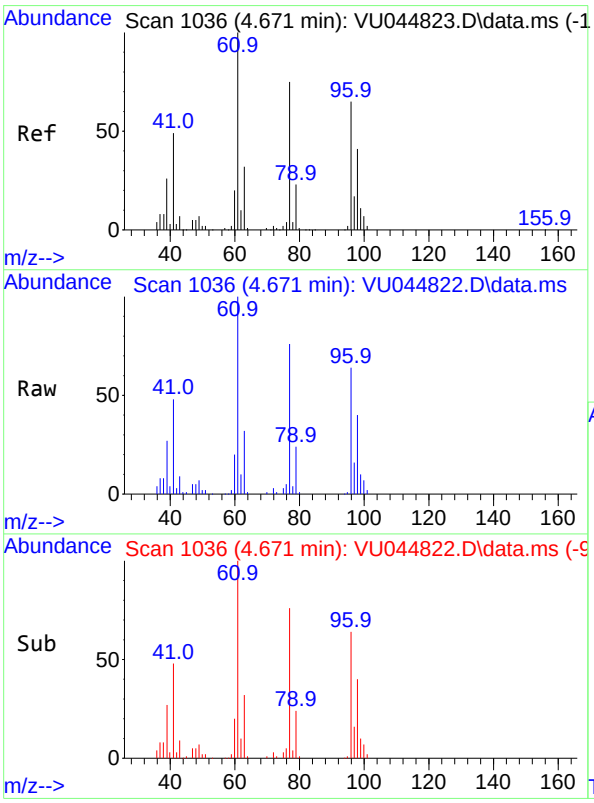


#25
2-Butanone
Concen: 111.479 ug/l
RT: 4.707 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 225077

Ion	Ratio	Lower	Upper
43	100		
72	26.1	21.3	31.9

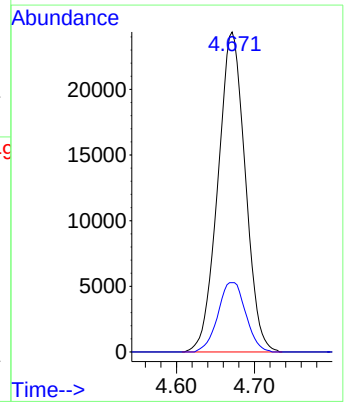




#26
2,2-Dichloropropane
Concen: 19.284 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 77 Resp: 59286

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.8	32.4



Instrument :
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ClientSampleId :
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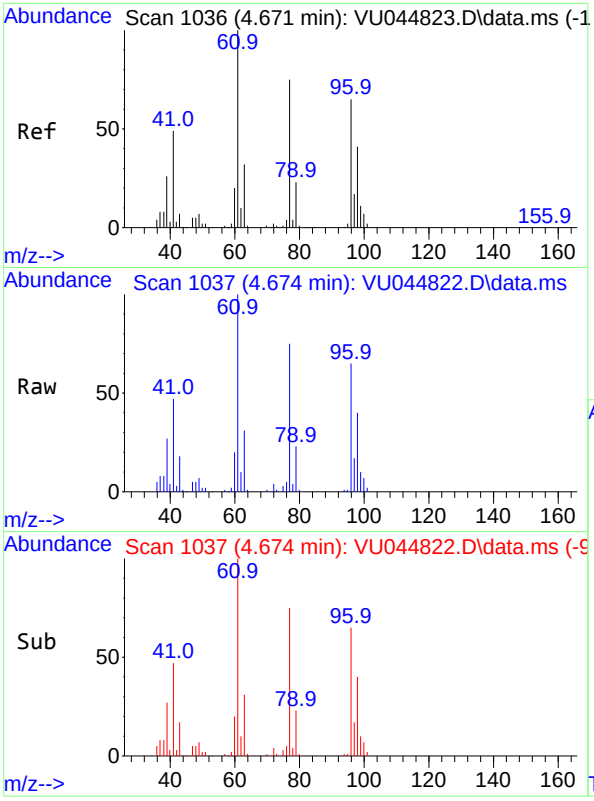
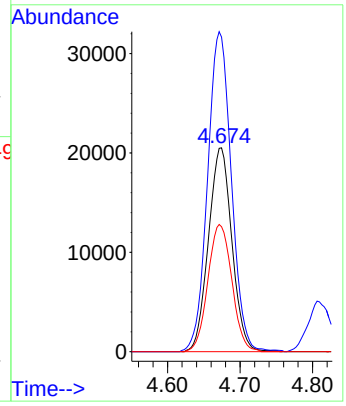
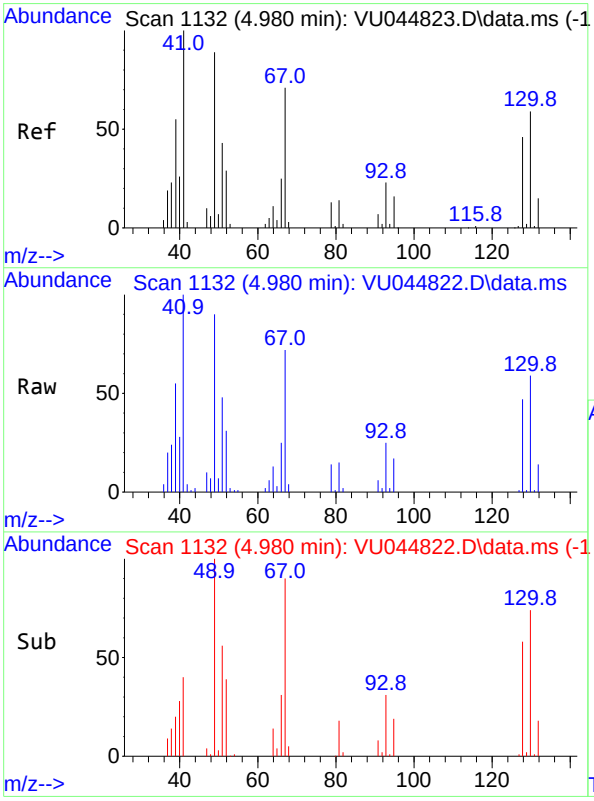


#27
cis-1,2-Dichloroethene
Concen: 20.378 ug/l
RT: 4.674 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 96 Resp: 46158

Ion	Ratio	Lower	Upper
96	100		
61	158.7	0.0	313.4
98	63.6	0.0	127.0

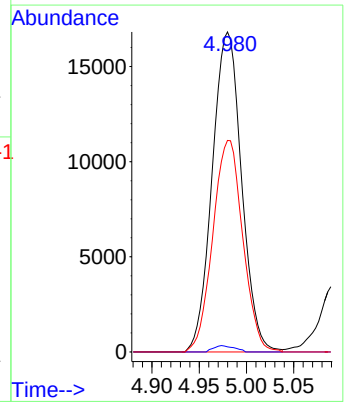




#28
Bromochloromethane
Concen: 19.444 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 49 Resp: 36375

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.2
130	67.3	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
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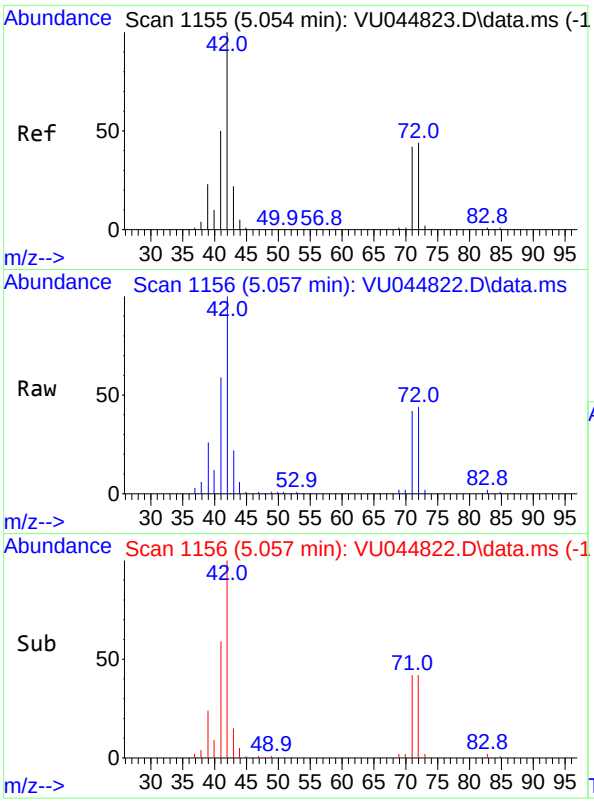
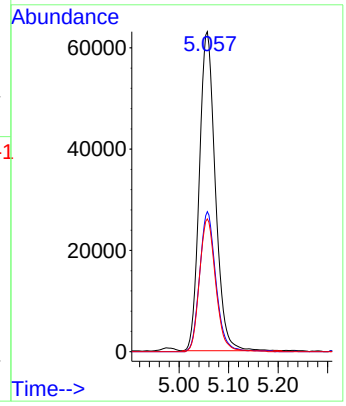
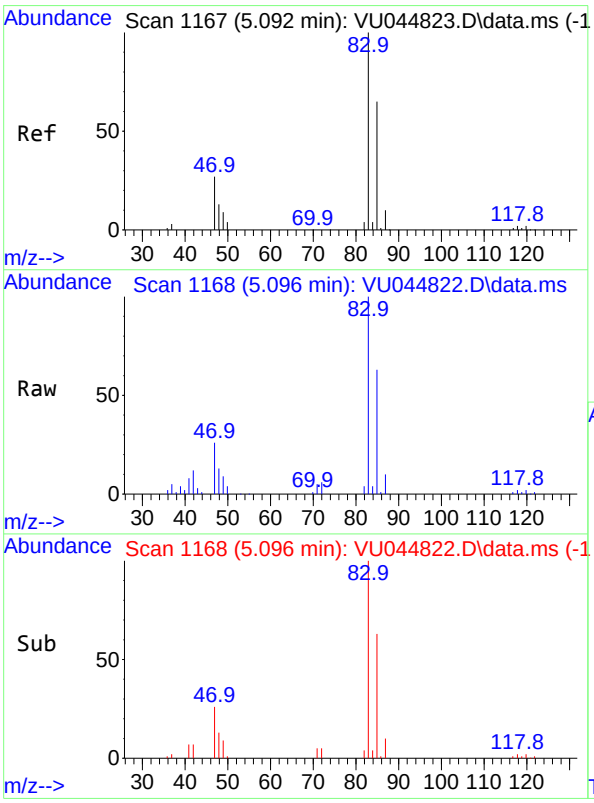


#29
Tetrahydrofuran
Concen: 125.748 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 42 Resp: 141605

Ion	Ratio	Lower	Upper
42	100		
72	44.4	36.2	54.4
71	42.3	34.1	51.1

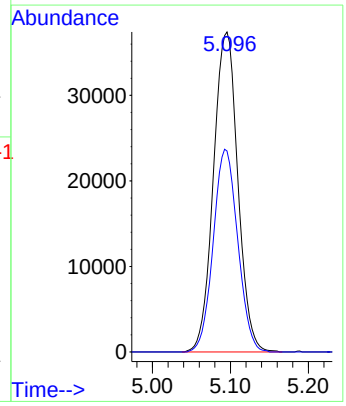




#30
Chloroform
Concen: 21.187 ug/l
RT: 5.096 min Scan# 1168
Delta R.T. 0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 83 Resp: 81387

Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.1	78.1



Instrument :
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ClientSampleId :
VSTDICC020

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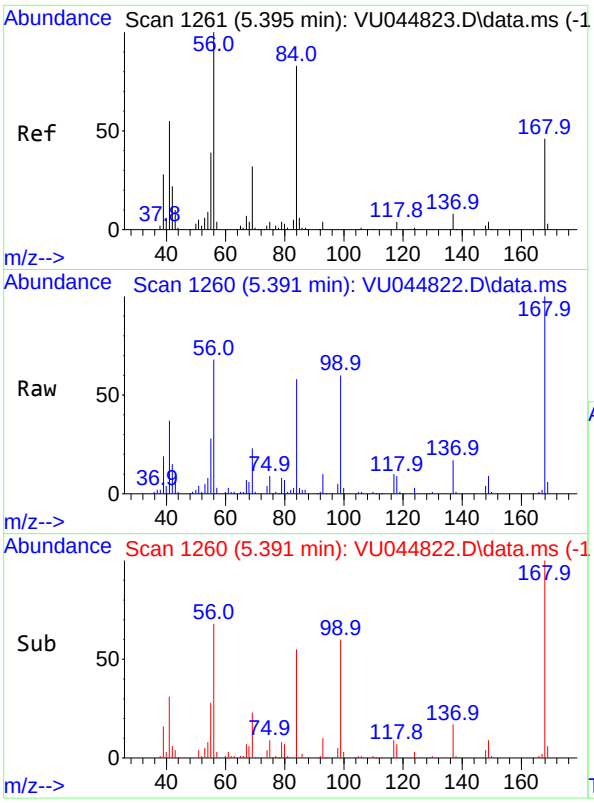
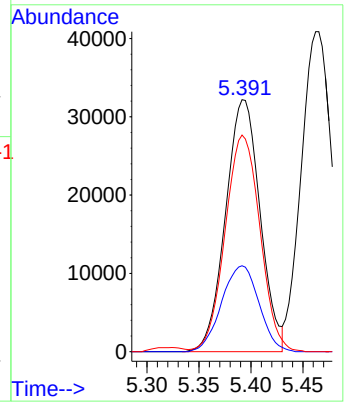
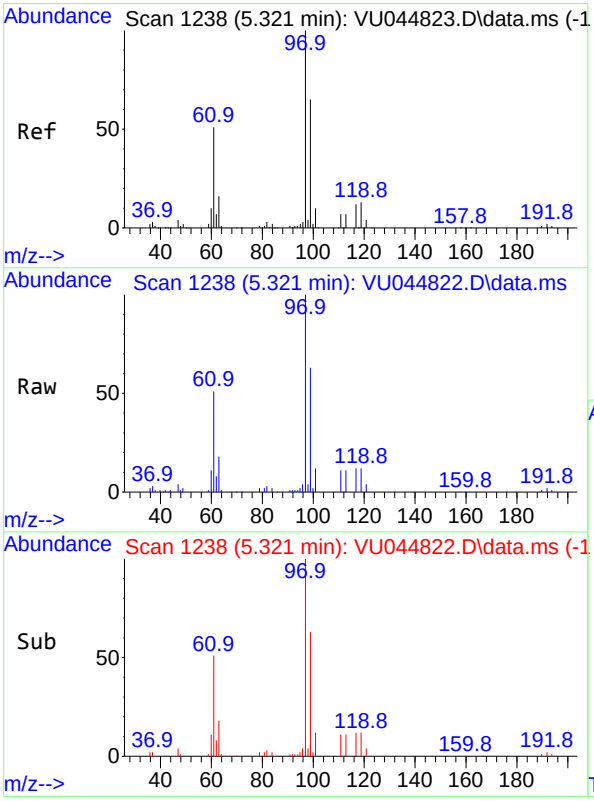


#31
Cyclohexane
Concen: 21.834 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 56 Resp: 74413

Ion	Ratio	Lower	Upper
56	100		
69	34.1	25.2	37.8
84	84.8	66.4	99.6

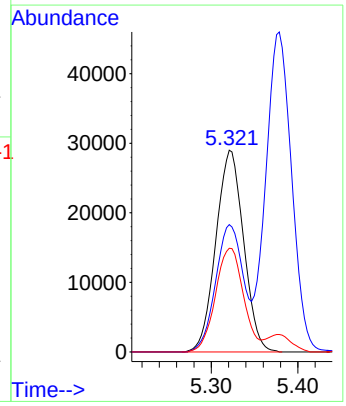




#32
1,1,1-Trichloroethane
Concen: 20.234 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 97 Resp: 64469

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.9	76.3
61	51.9	40.7	61.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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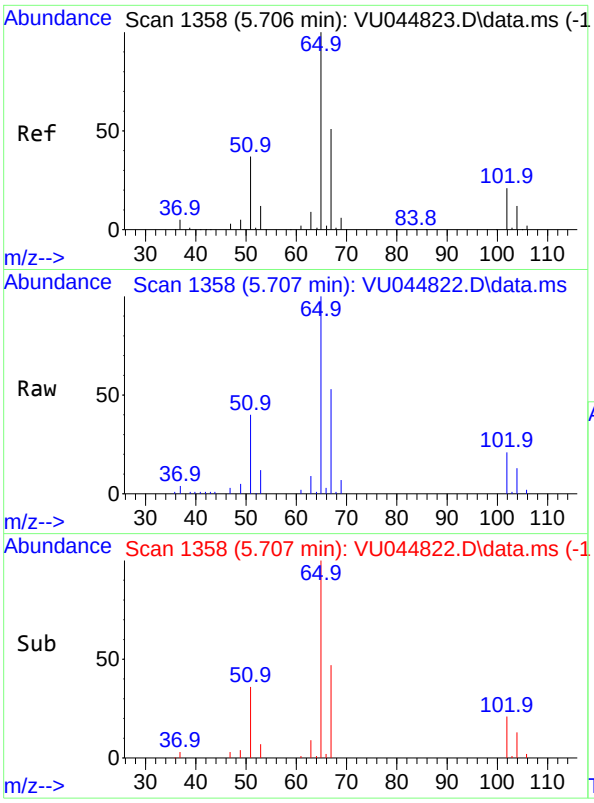
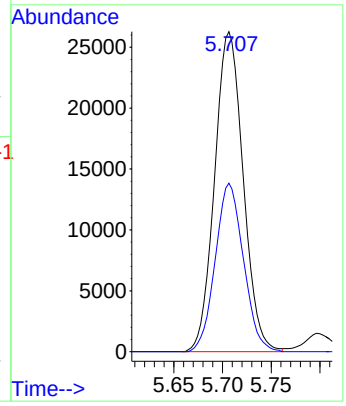
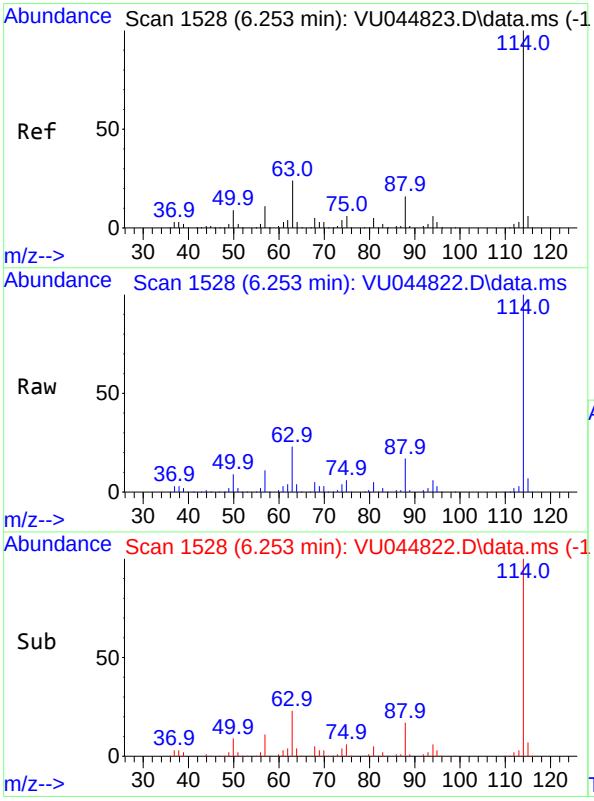


#33
1,2-Dichloroethane-d4
Concen: 22.307 ug/l
RT: 5.707 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 65 Resp: 53561

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.8

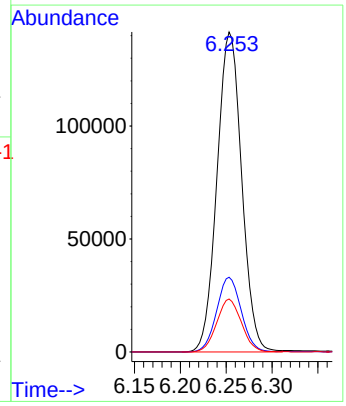




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:114 Resp: 264927

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	47.8
88	16.5	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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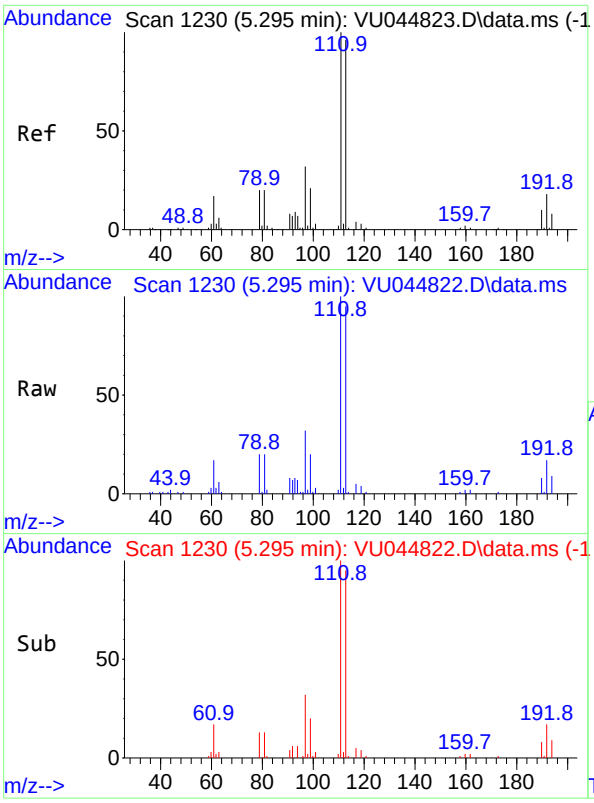
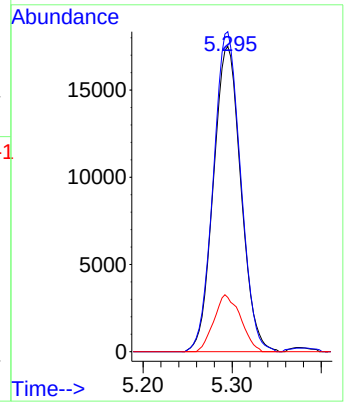
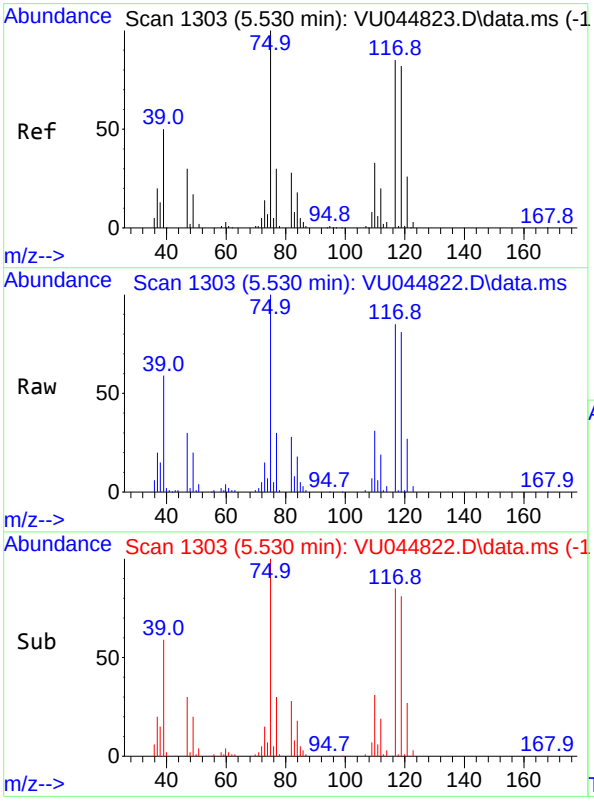


#35
Dibromofluoromethane
Concen: 20.392 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:113 Resp: 37472

Ion	Ratio	Lower	Upper
113	100		
111	103.8	84.1	126.1
192	18.1	14.8	22.2

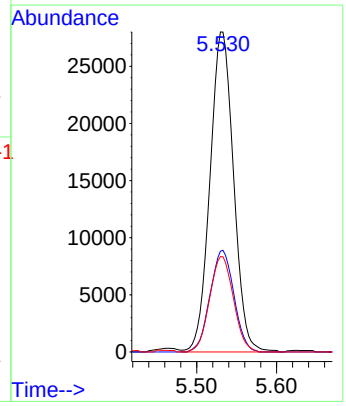




#36
1,1-Dichloropropene
Concen: 19.462 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 75 Resp: 57402

Ion	Ratio	Lower	Upper
75	100		
110	32.2	16.3	48.9
77	30.1	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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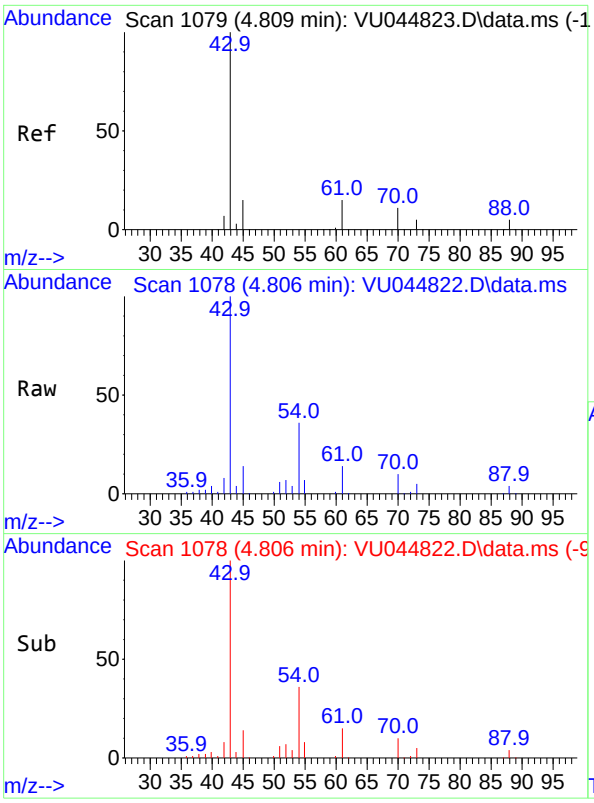
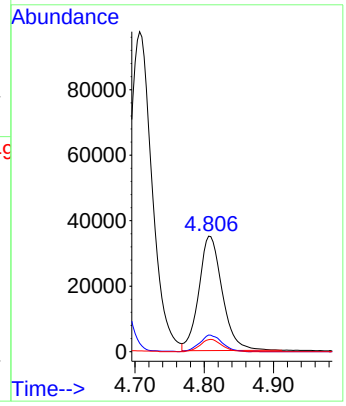
9/27/2021 11:02:37 AM

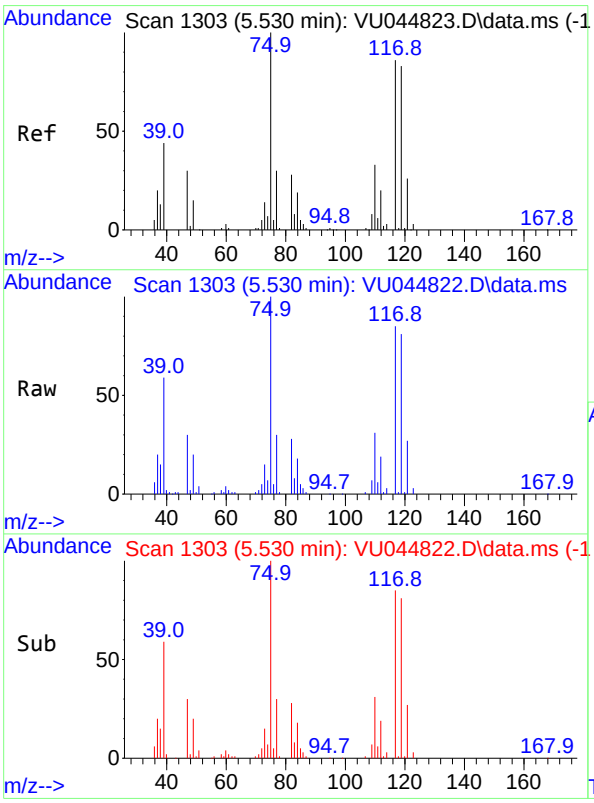


#37
Ethyl Acetate
Concen: 22.559 ug/l
RT: 4.806 min Scan# 1078
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 82194

Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.9	16.3
70	10.0	8.2	12.4

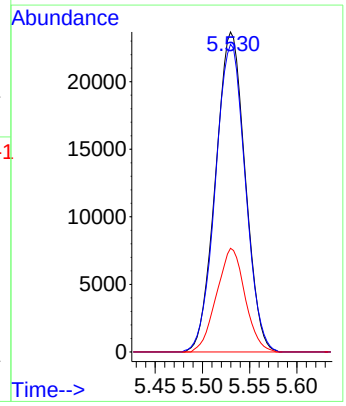




#38
Carbon Tetrachloride
Concen: 19.290 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:117 Resp: 51392

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.4	116.2
121	32.4	24.5	36.7



Instrument :
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ClientSampleId :
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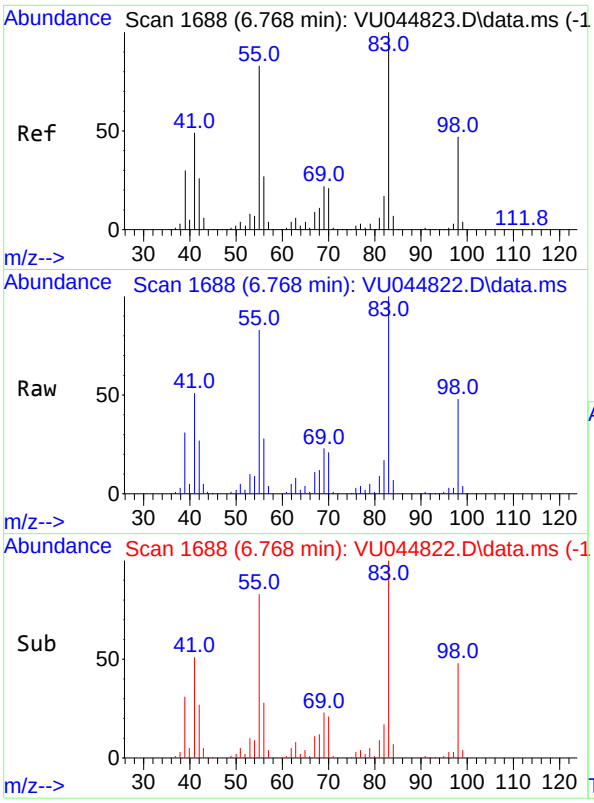
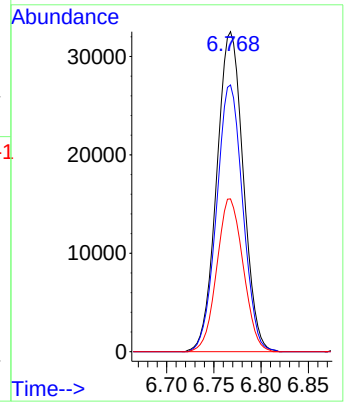
9/27/2021 11:02:37 AM

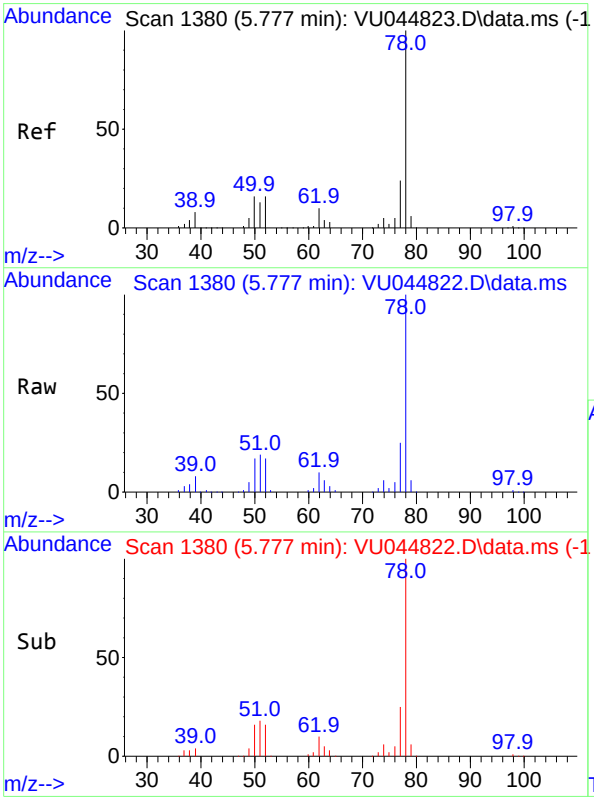


#39
Methylcyclohexane
Concen: 19.900 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 83 Resp: 63494

Ion	Ratio	Lower	Upper
83	100		
55	83.4	66.2	99.4
98	47.7	37.5	56.3

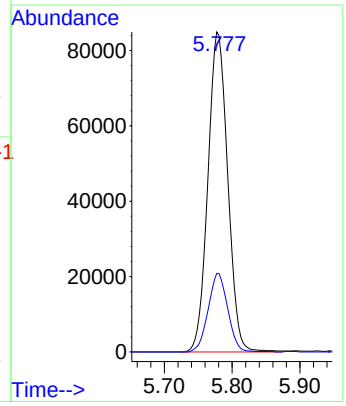




#40
Benzene
Concen: 19.690 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 78 Resp: 172342

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.1	28.7



Instrument :
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ClientSampleId :
VSTDICC020

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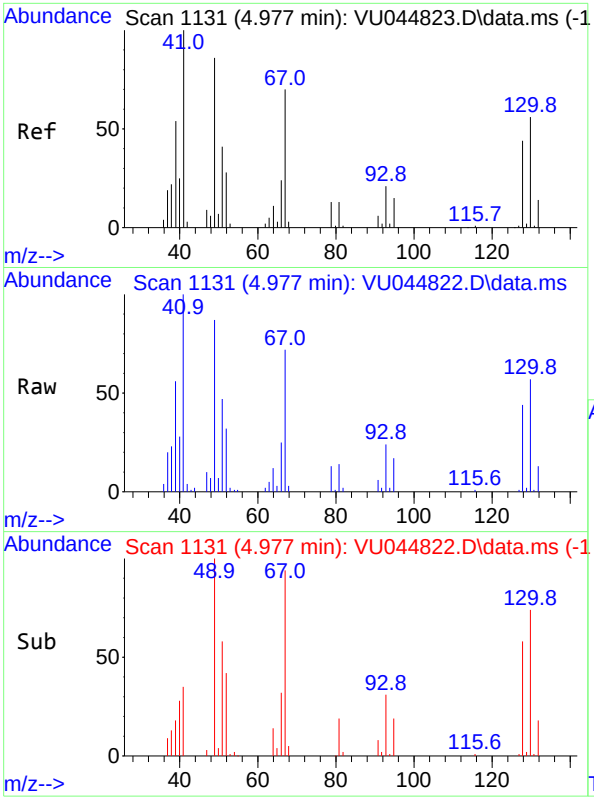
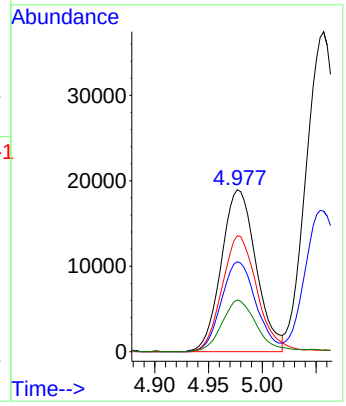
9/27/2021 11:02:37 AM

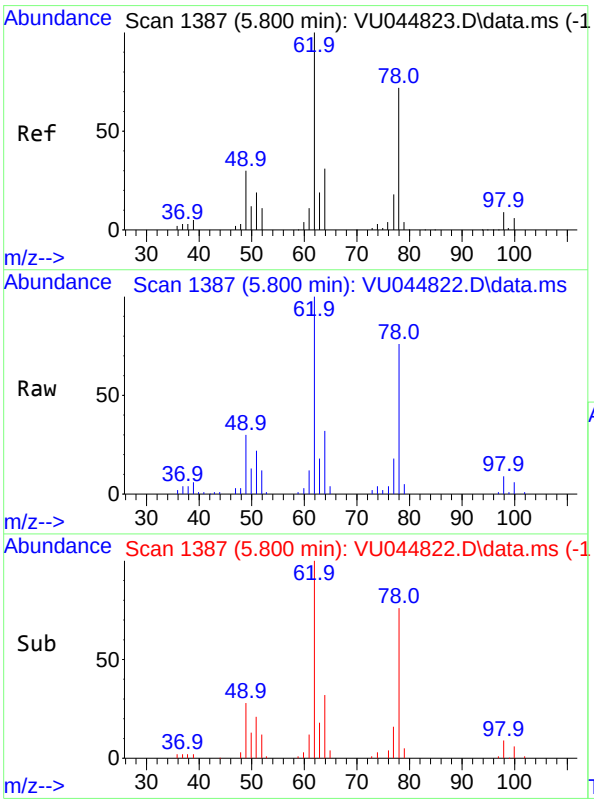


#41
Methacrylonitrile
Concen: 22.988 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 41 Resp: 42735

Ion	Ratio	Lower	Upper
41	100		
39	55.6	44.4	66.6
67	72.7	58.1	87.1
52	31.8	23.8	35.8

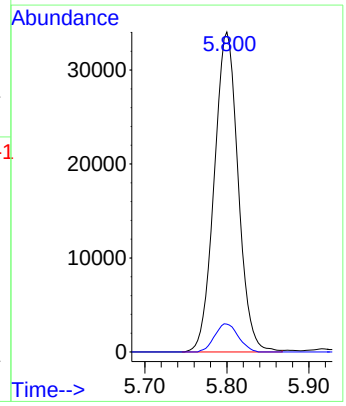




#42
1,2-Dichloroethane
Concen: 21.919 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 62 Resp: 69013

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.8



Instrument :
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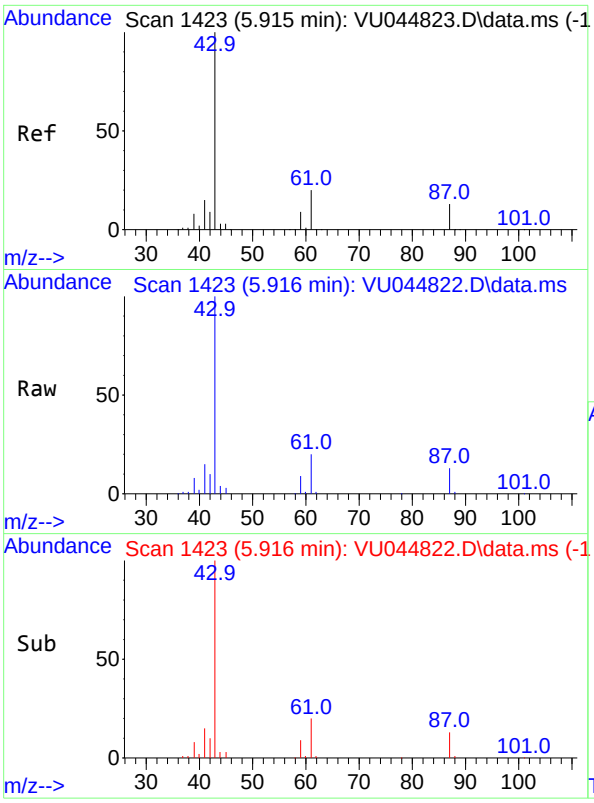
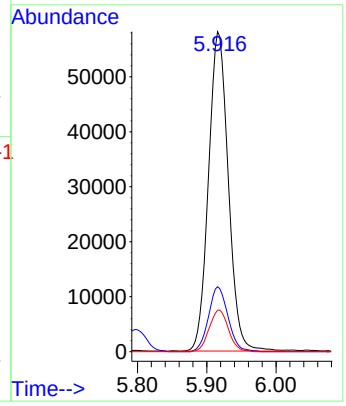
9/27/2021 11:02:37 AM

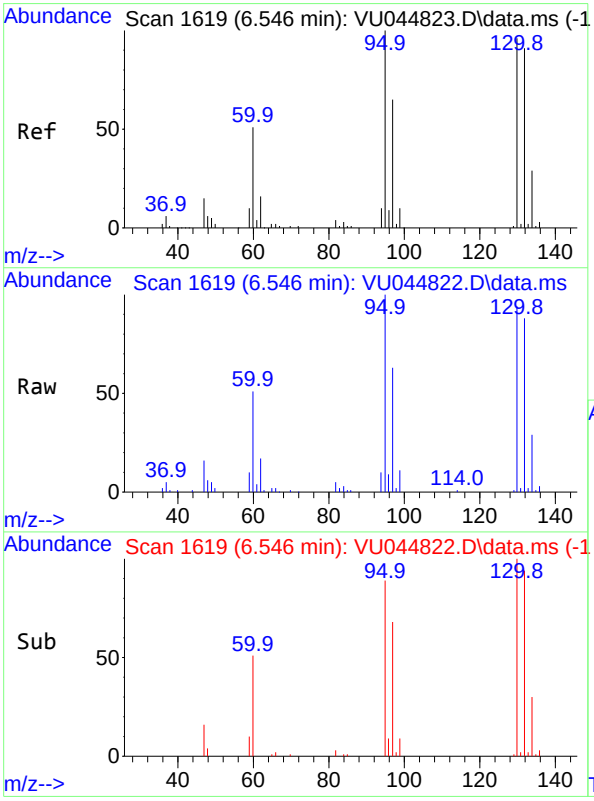


#43
Isopropyl Acetate
Concen: 22.355 ug/l
RT: 5.916 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 115099

Ion	Ratio	Lower	Upper
43	100		
61	20.1	16.1	24.1
87	12.7	10.3	15.5

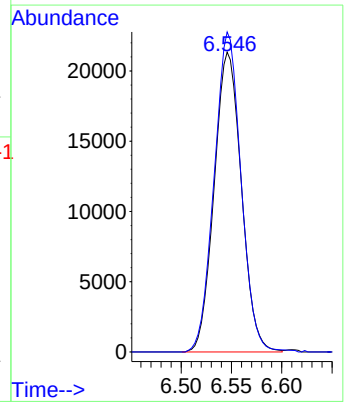




#44
Trichloroethene
Concen: 19.885 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:130 Resp: 40186

Ion	Ratio	Lower	Upper
130	100		
95	106.7	0.0	209.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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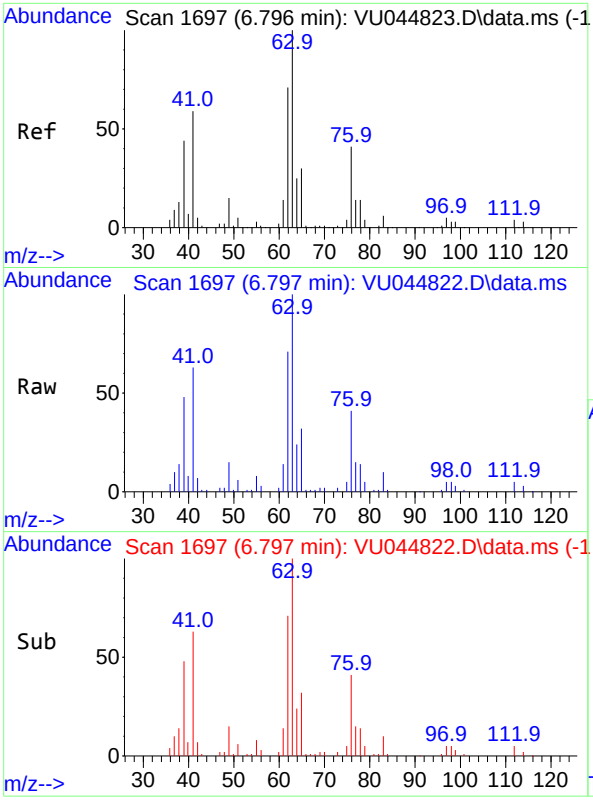
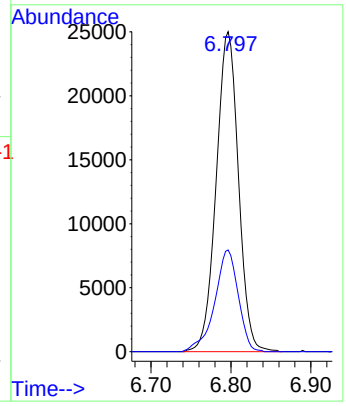
9/27/2021 11:02:37 AM

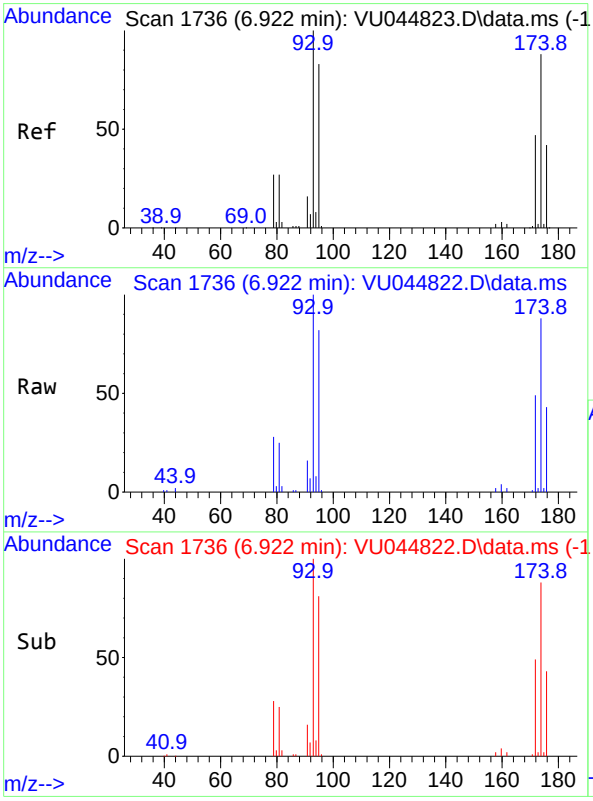


#45
1,2-Dichloropropane
Concen: 20.072 ug/l
RT: 6.797 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 63 Resp: 48216

Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.9	35.9

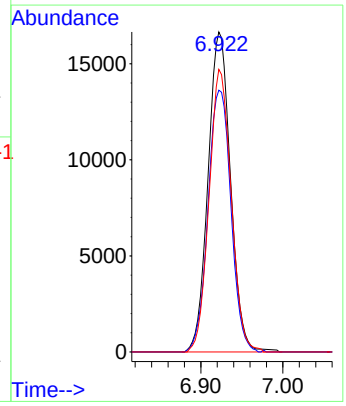




#46
Dibromomethane
Concen: 20.459 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 93 Resp: 31622

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.6	98.4
174	86.9	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
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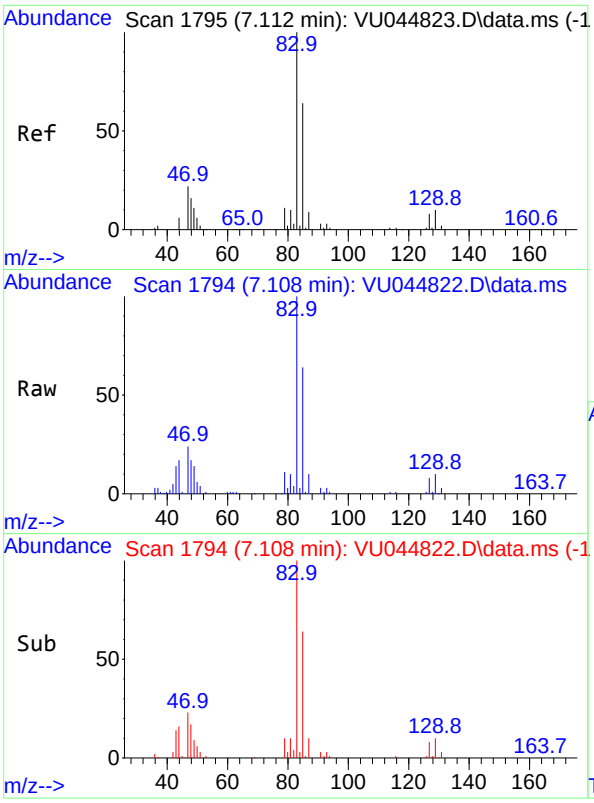
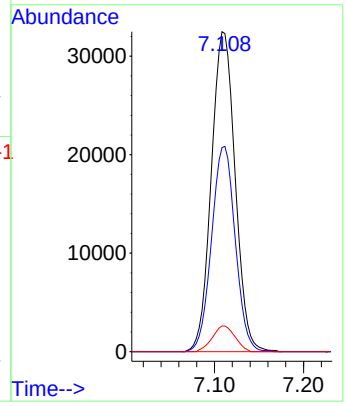
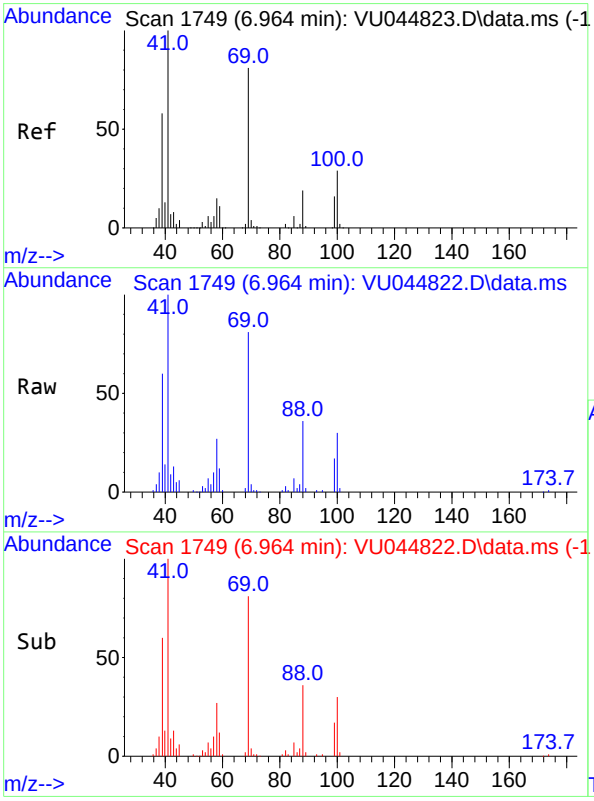


#47
Bromodichloromethane
Concen: 19.866 ug/l
RT: 7.108 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 83 Resp: 60336

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.6	77.4
127	8.0	6.2	9.4

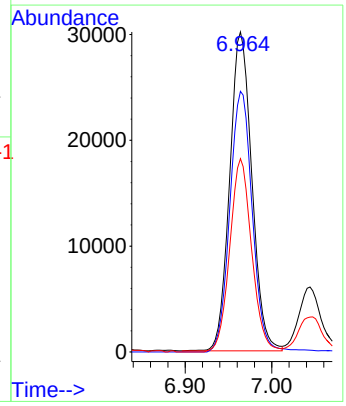




#48
Methyl methacrylate
Concen: 21.403 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 41 Resp: 53530

Ion	Ratio	Lower	Upper
41	100		
69	83.4	65.6	98.4
39	60.0	46.2	69.4



Instrument :
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ClientSampleId :
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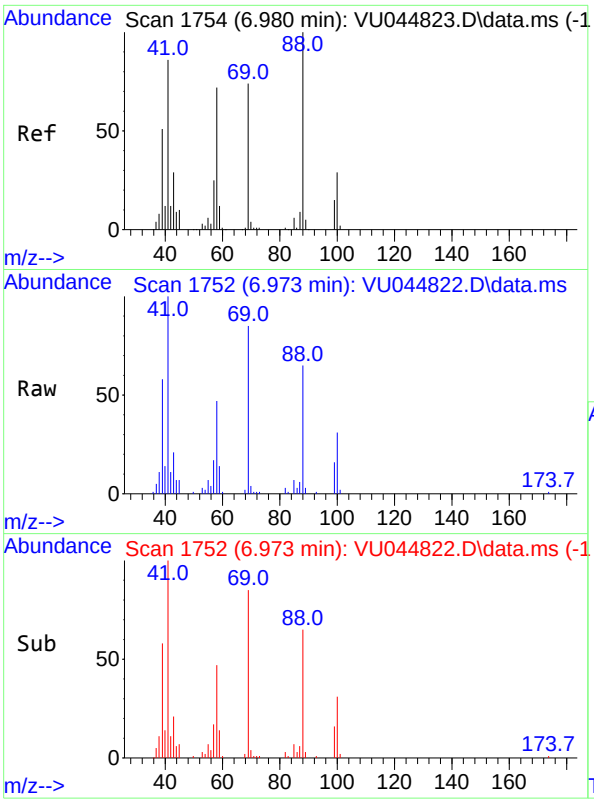
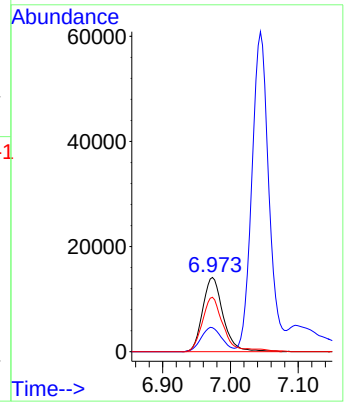
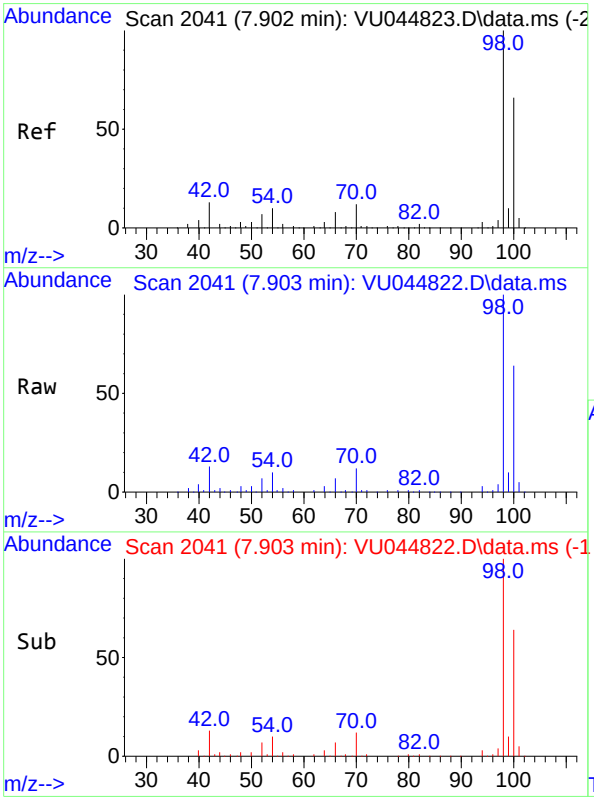


#49
1,4-Dioxane
Concen: 453.819 ug/l
RT: 6.973 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 88 Resp: 29587

Ion	Ratio	Lower	Upper
88	100		
43	33.3	25.8	38.6
58	76.3	61.3	91.9

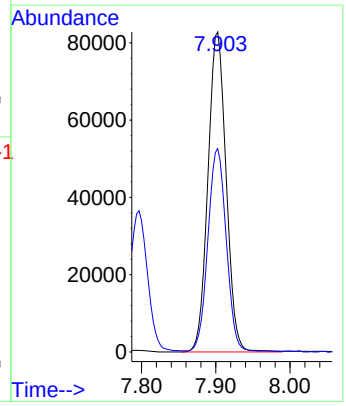




#50
Toluene-d8
Concen: 19.963 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 98 Resp: 140840

Ion	Ratio	Lower	Upper
98	100		
100	63.4	52.5	78.7



Instrument :
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ClientSampleId :
VSTDICC020

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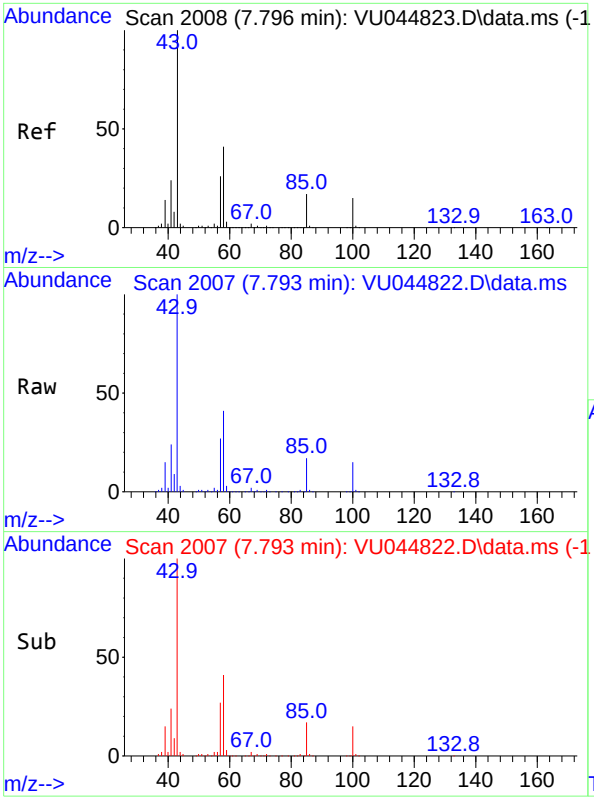
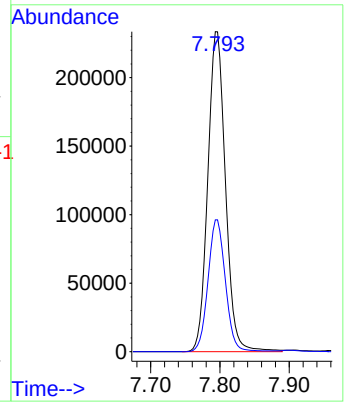
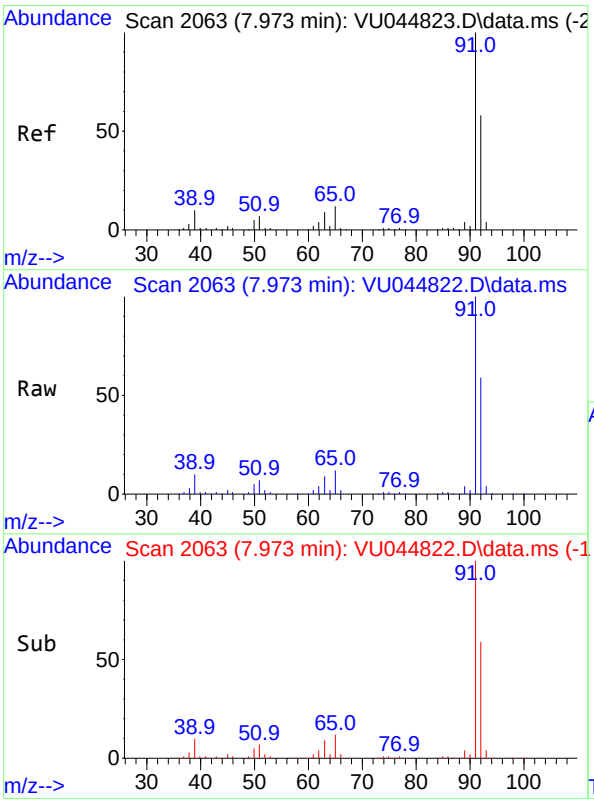


#51
4-Methyl-2-Pentanone
Concen: 110.975 ug/l
RT: 7.793 min Scan# 2007
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 412046

Ion	Ratio	Lower	Upper
43	100		
58	40.6	32.4	48.6

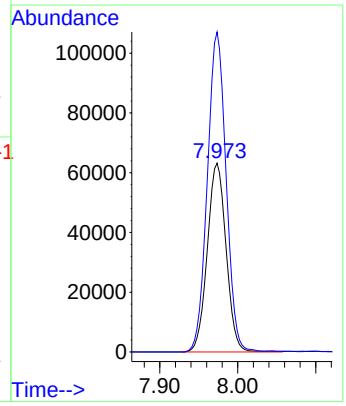




#52
Toluene
Concen: 20.491 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 92 Resp: 106223

Ion	Ratio	Lower	Upper
92	100		
91	168.6	136.9	205.3



Instrument :
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ClientSampleId :
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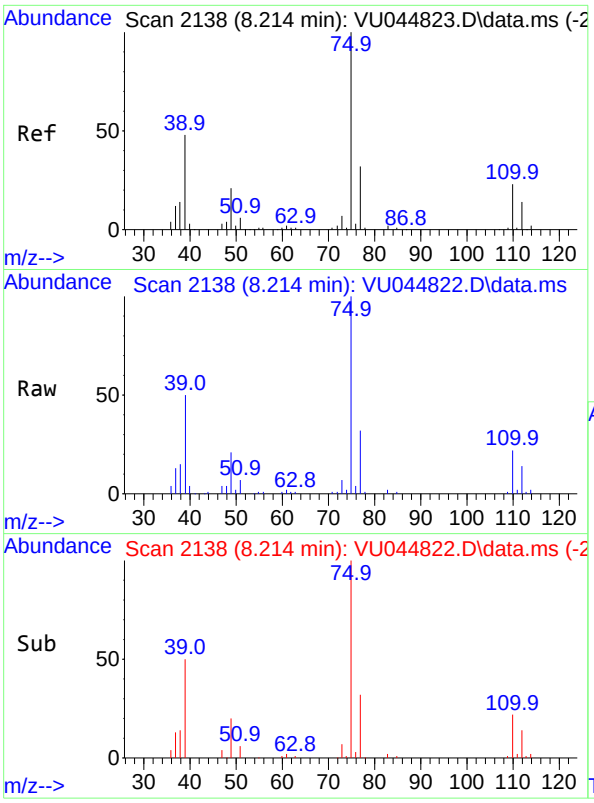
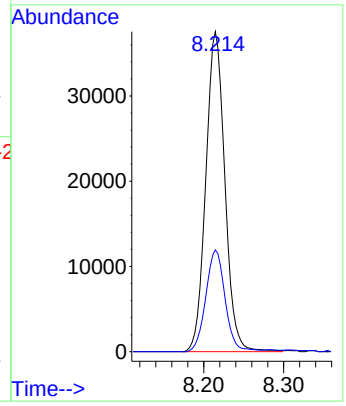
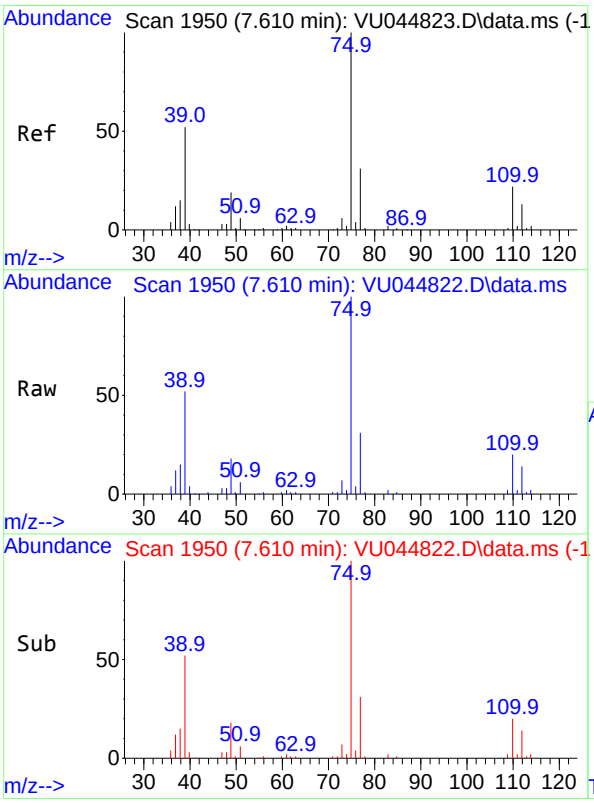


#53
t-1,3-Dichloropropene
Concen: 18.898 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 75 Resp: 62314

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4

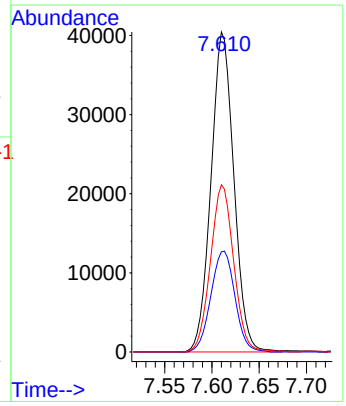




#54
cis-1,3-Dichloropropene
Concen: 19.137 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 75 Resp: 68027

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6
39	52.2	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
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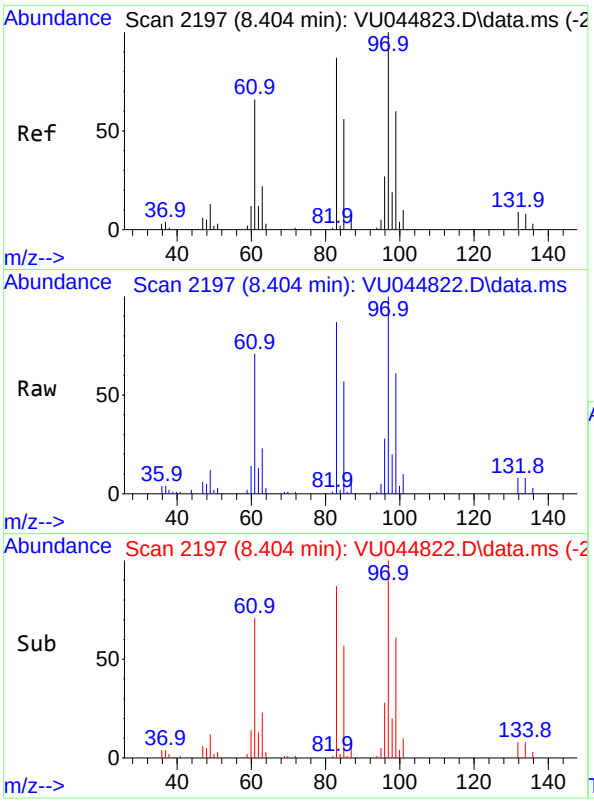
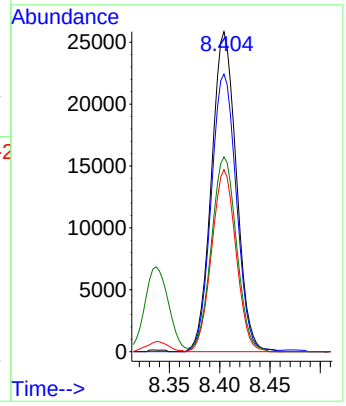
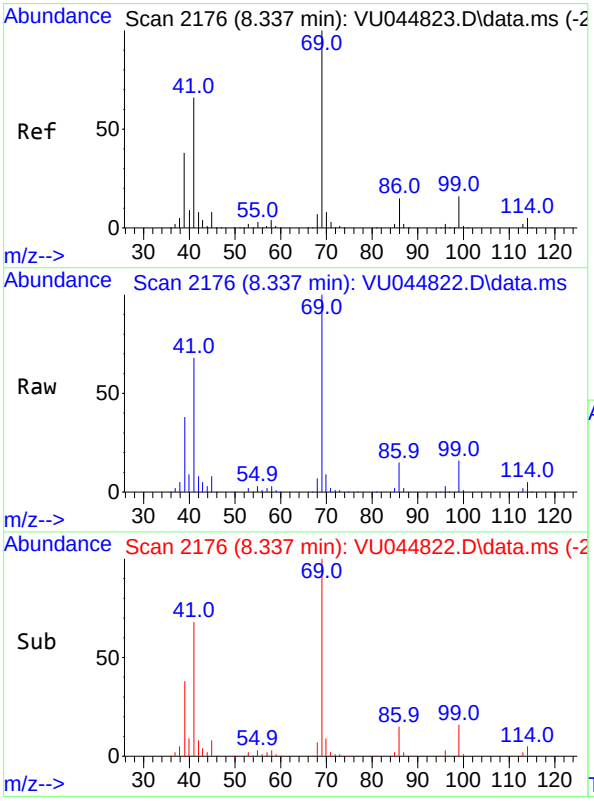


#55
1,1,2-Trichloroethane
Concen: 20.277 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 97 Resp: 44378

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.7	104.5
85	56.9	44.8	67.2
99	60.9	49.3	73.9

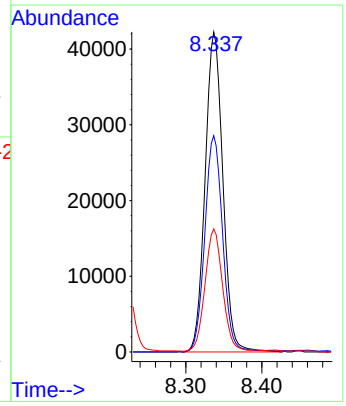




#56
Ethyl methacrylate
Concen: 20.456 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 69 Resp: 68464

Ion	Ratio	Lower	Upper
69	100		
41	68.1	53.5	80.3
39	37.7	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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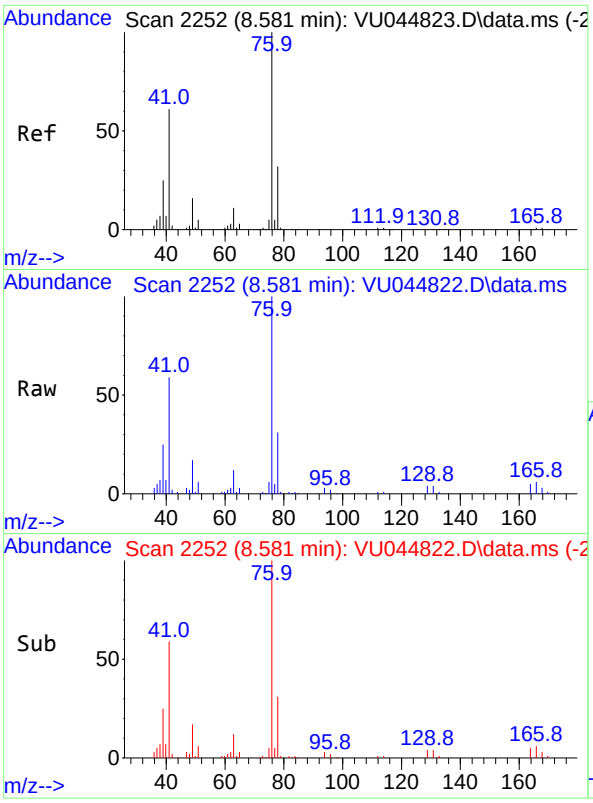
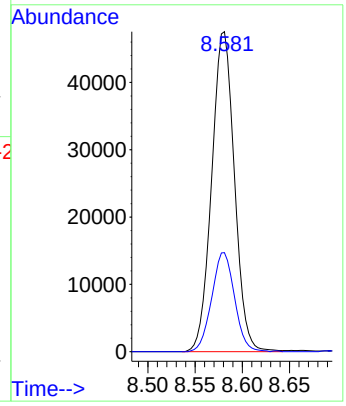
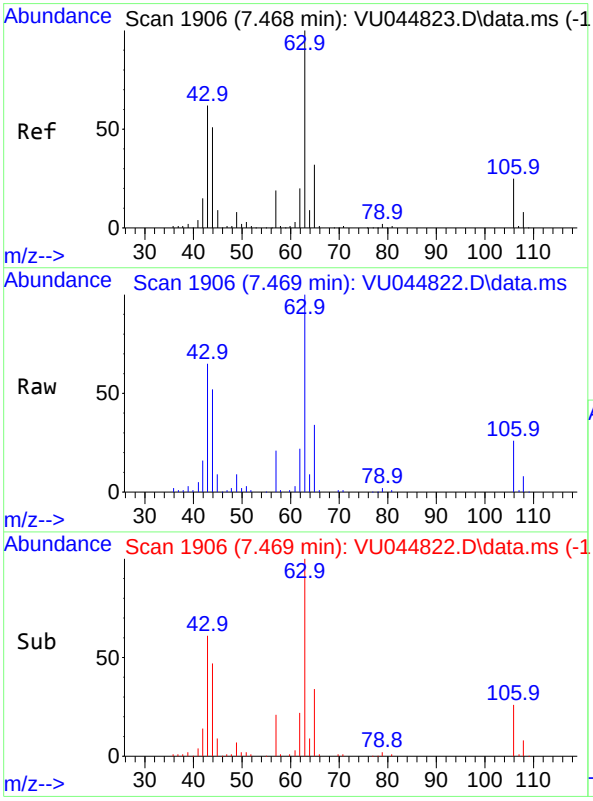


#57
1,3-Dichloropropane
Concen: 20.476 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 76 Resp: 79593

Ion	Ratio	Lower	Upper
76	100		
78	31.1	25.7	38.5

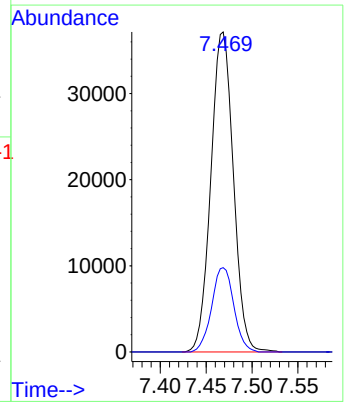




#58
2-Chloroethyl Vinyl ether
Concen: 64.394 ug/l
RT: 7.469 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 63 Resp: 63441

Ion	Ratio	Lower	Upper
63	100		
106	25.9	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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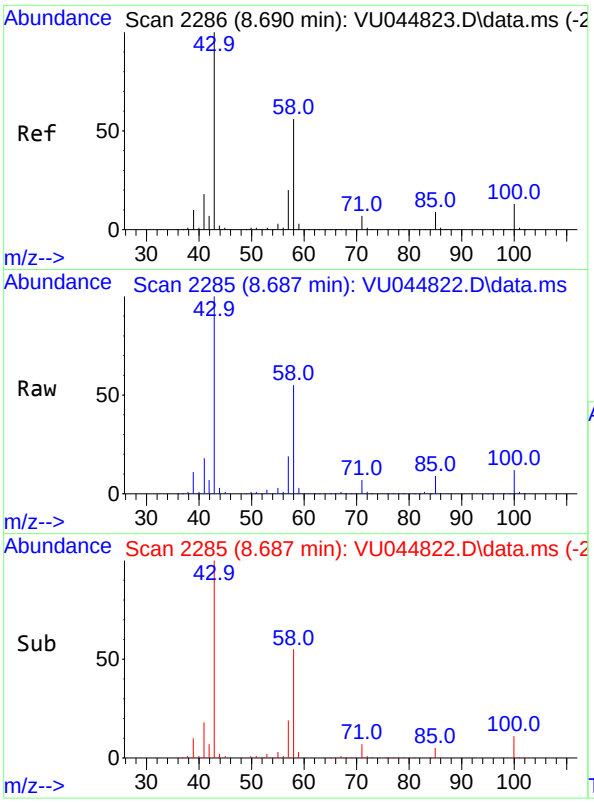
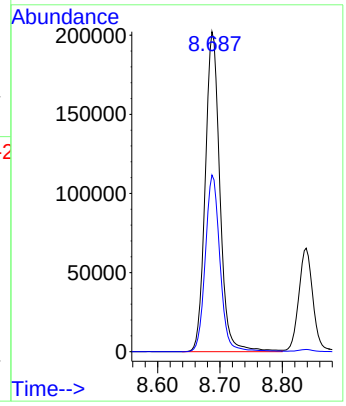
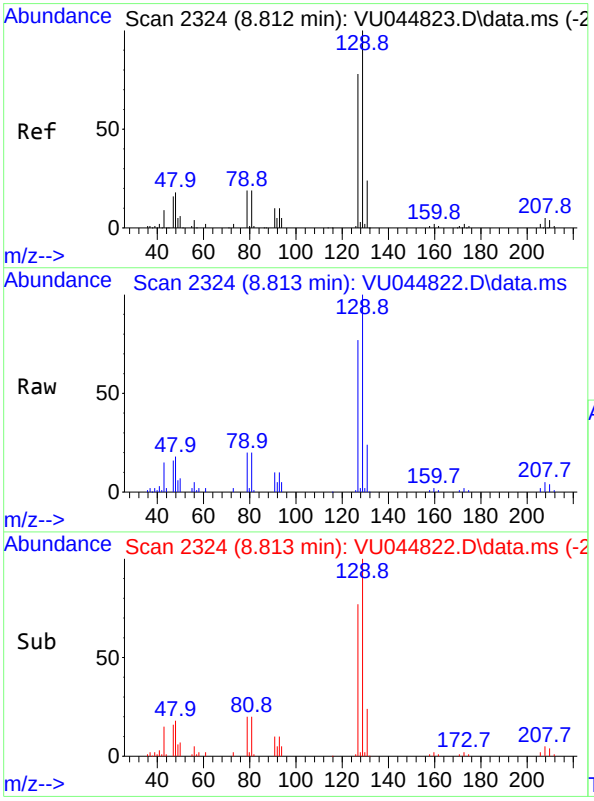


#59
2-Hexanone
Concen: 111.368 ug/l
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 330453

Ion	Ratio	Lower	Upper
43	100		
58	55.4	28.0	84.0

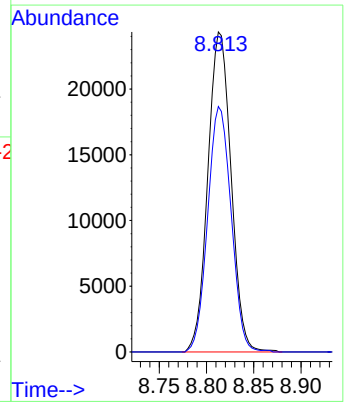




#60
Dibromochloromethane
Concen: 19.229 ug/l
RT: 8.813 min Scan# 2324
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:129 Resp: 41585

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.0	117.0



Instrument :
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ClientSampleId :
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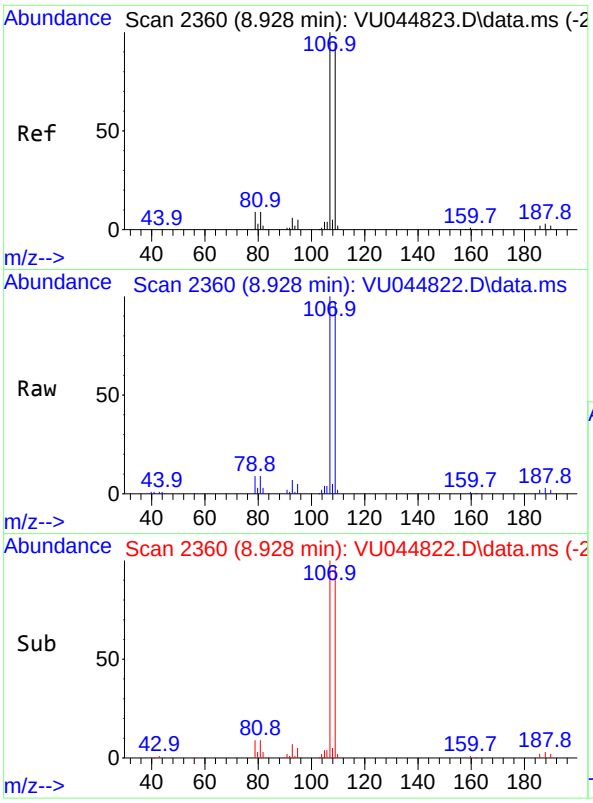
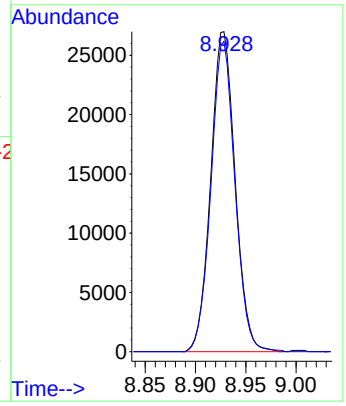
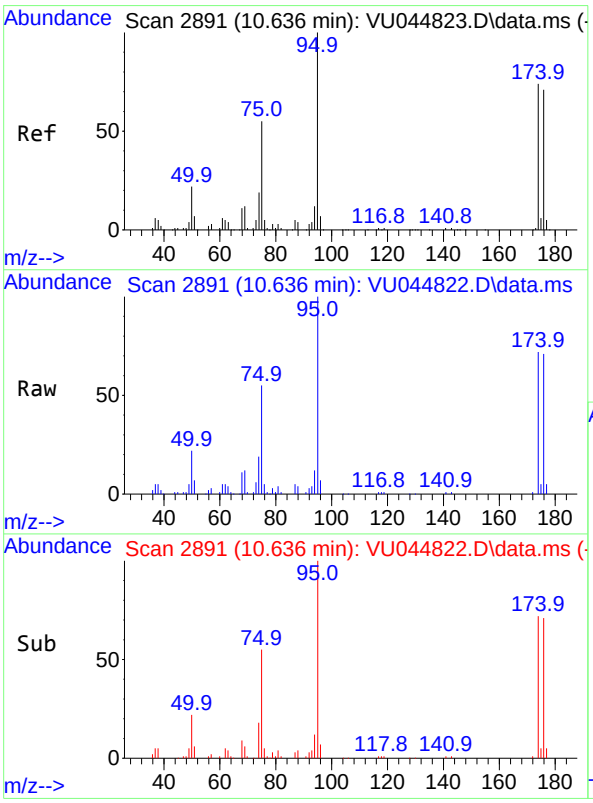


#61
1,2-Dibromoethane
Concen: 19.796 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:107 Resp: 45565

Ion	Ratio	Lower	Upper
107	100		
109	95.3	74.8	112.2

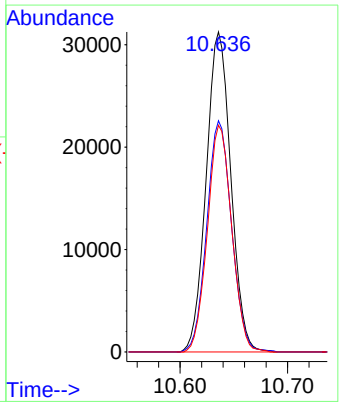




#62
4-Bromofluorobenzene
Concen: 17.939 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 95 Resp: 49850

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	146.6
176	69.6	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
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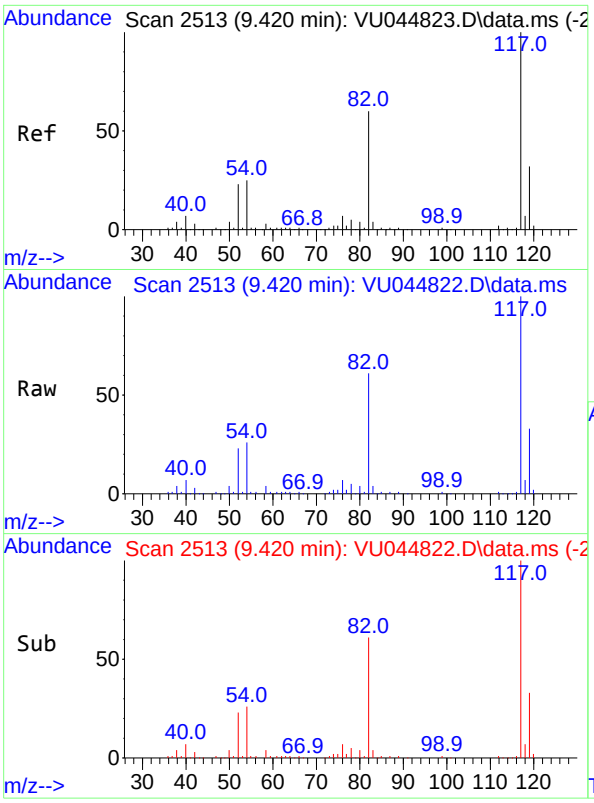
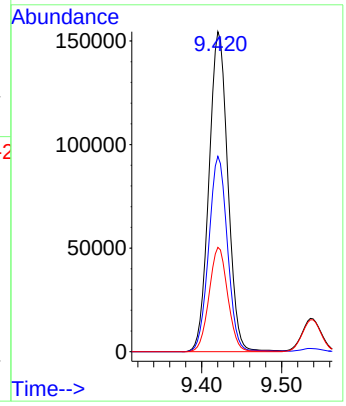
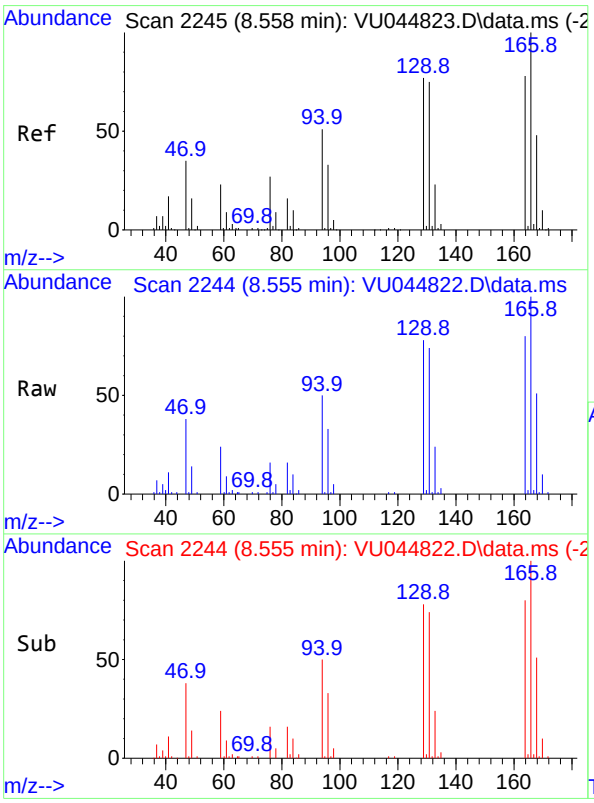


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:117 Resp: 253555

Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.8	71.8
119	32.6	25.8	38.6

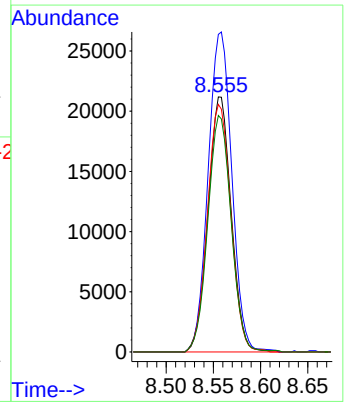




#64
Tetrachloroethene
Concen: 20.656 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:164 Resp: 36295

Ion	Ratio	Lower	Upper
164	100		
166	124.5	102.8	154.2
129	97.0	79.4	119.2
131	92.7	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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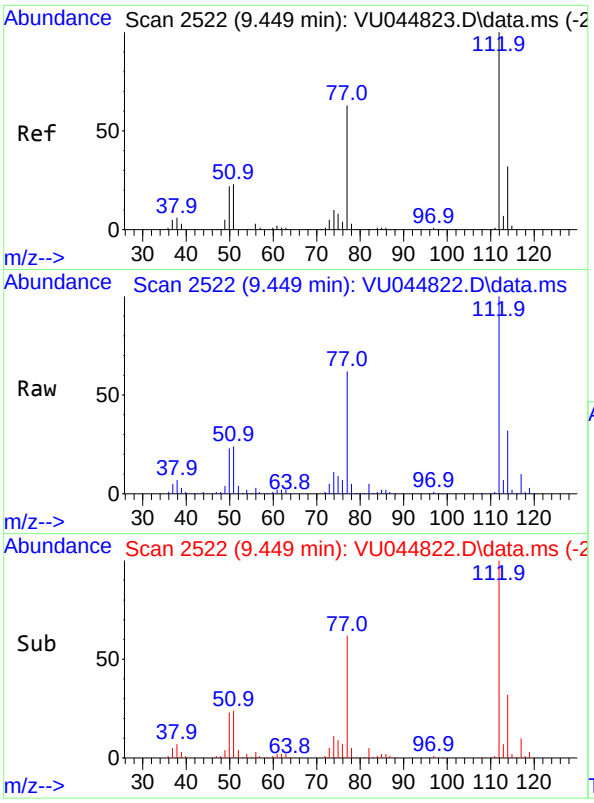
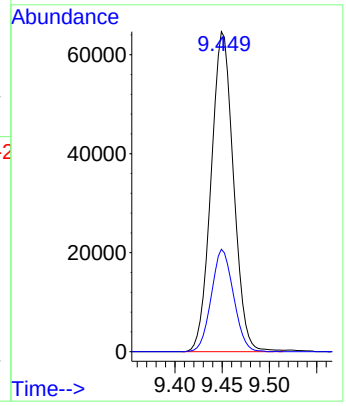
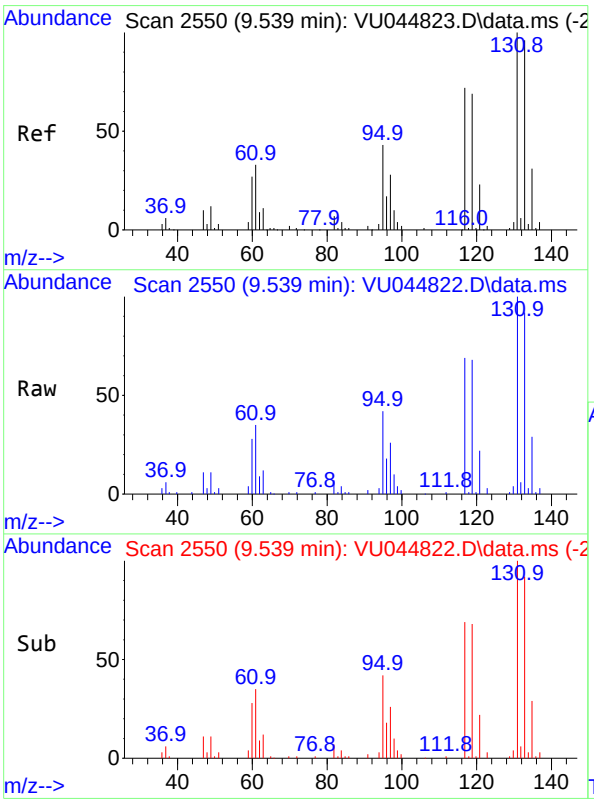


#65
Chlorobenzene
Concen: 19.590 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:112 Resp: 106538

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.9	38.9

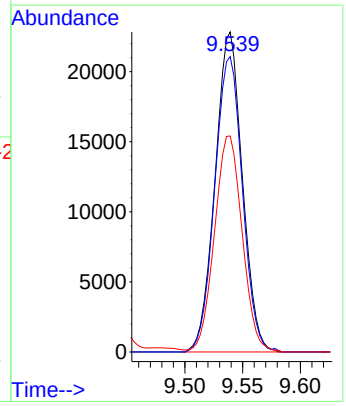




#66
1,1,1,2-Tetrachloroethane
Concen: 19.695 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:131 Resp: 37466

Ion	Ratio	Lower	Upper
131	100		
133	93.7	48.1	144.3
119	68.7	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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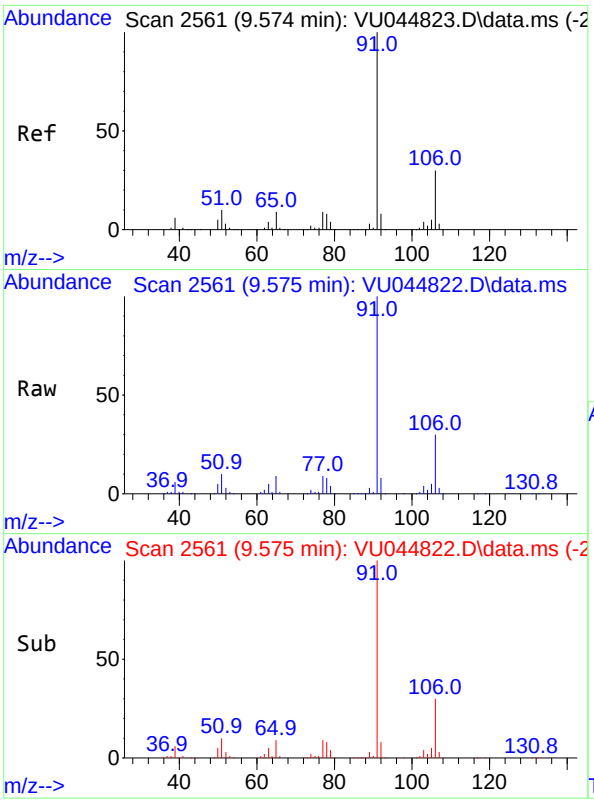
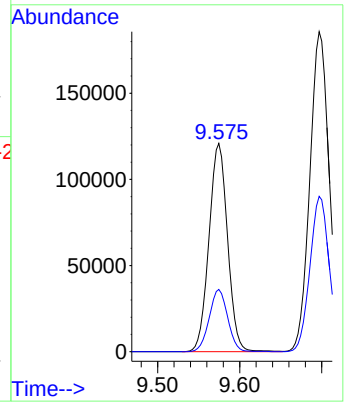
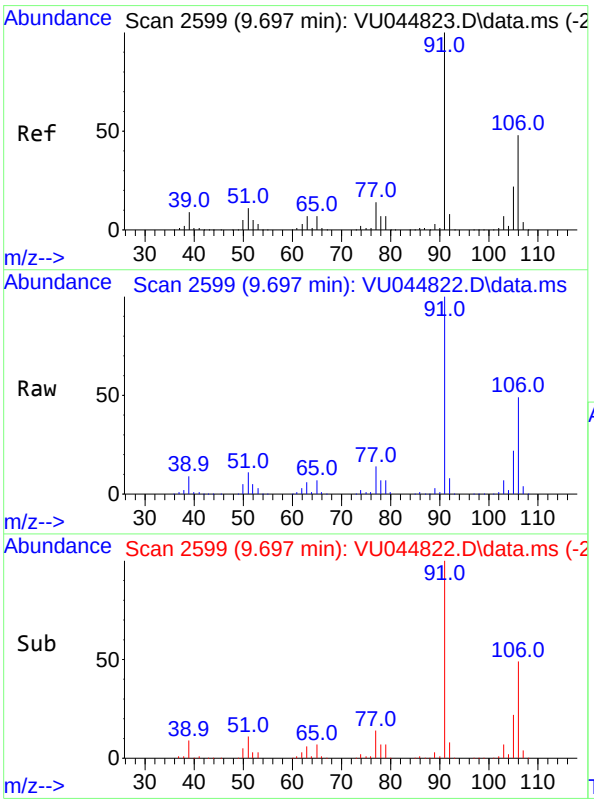


#67
Ethyl Benzene
Concen: 19.525 ug/l
RT: 9.575 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 91 Resp: 190230

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.3	36.5

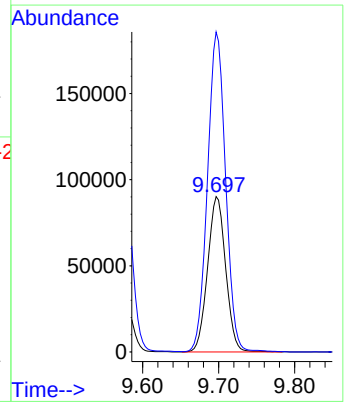




#68
m/p-Xylenes
Concen: 40.714 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:106 Resp: 148610

Ion	Ratio	Lower	Upper
106	100		
91	206.5	164.2	246.2



Instrument :
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VSTDICC020

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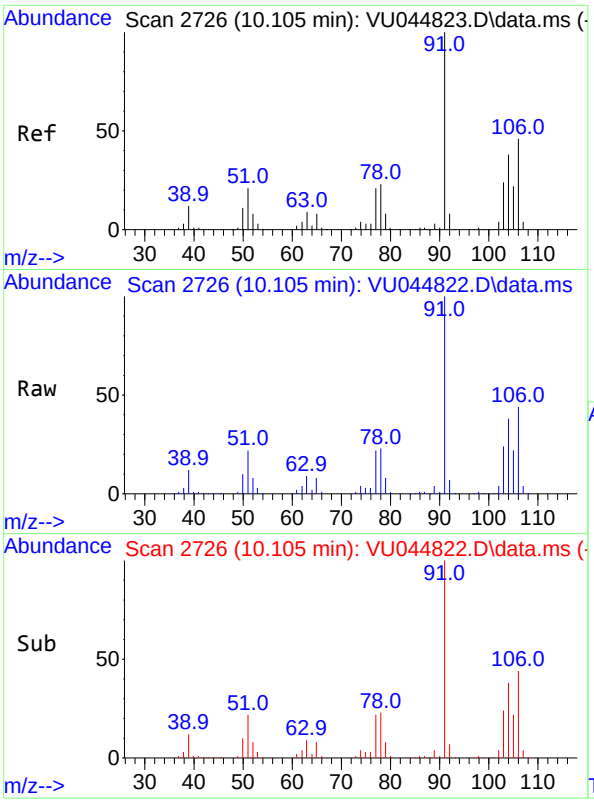
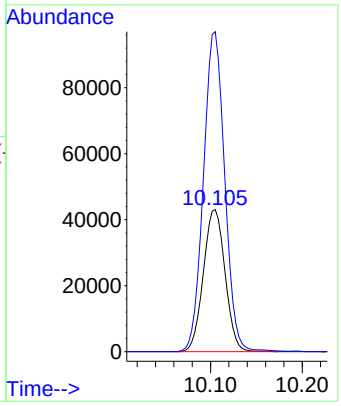
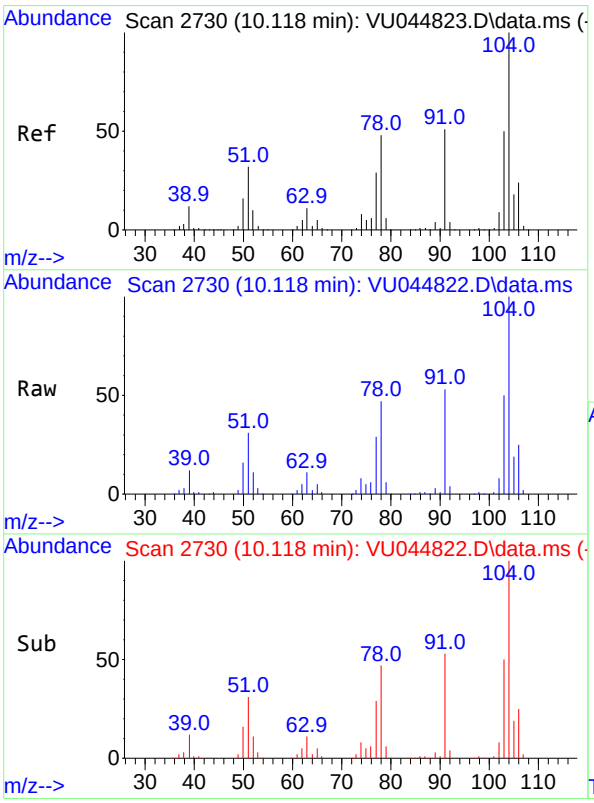


#69
o-Xylene
Concen: 20.414 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:106 Resp: 70885

Ion	Ratio	Lower	Upper
106	100		
91	221.1	108.9	326.7

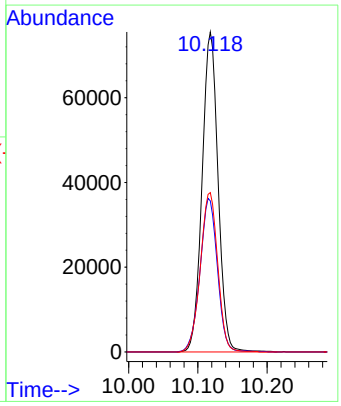




#70
Styrene
Concen: 20.093 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:104 Resp: 120797

Ion	Ratio	Lower	Upper
104	100		
78	52.3	41.4	62.0
103	54.2	43.5	65.3



Instrument :
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ClientSampleId :
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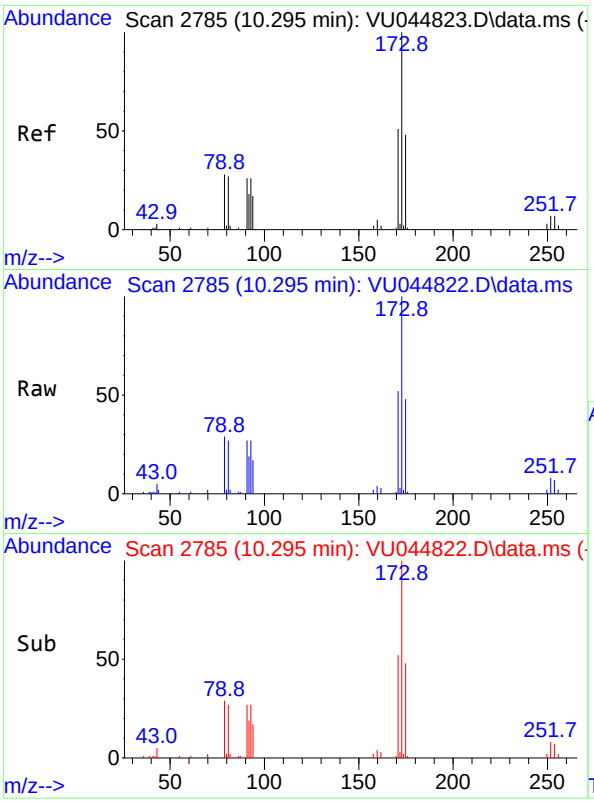
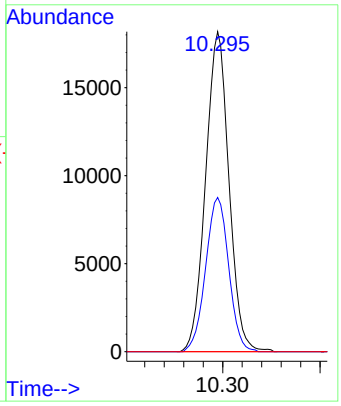
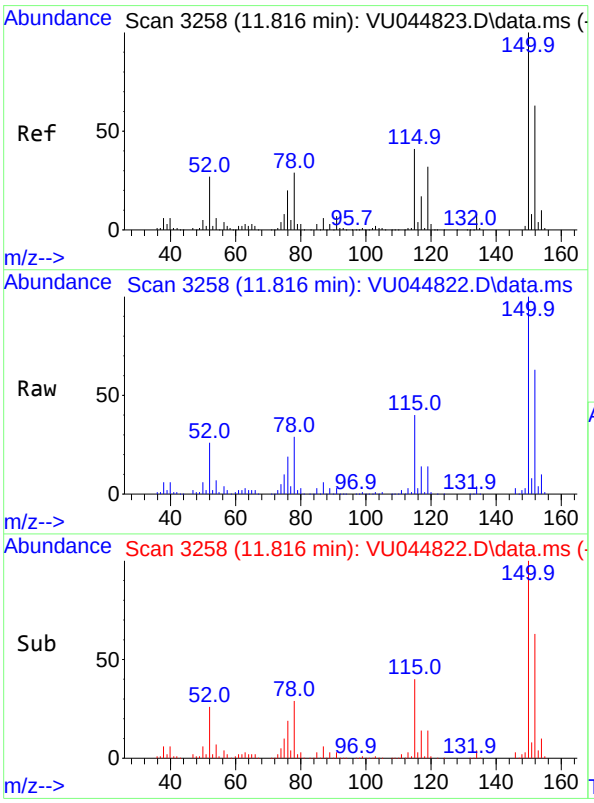


#71
Bromoform
Concen: 18.801 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:173 Resp: 30172

Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.3	73.0
254	0.0	0.0	0.0

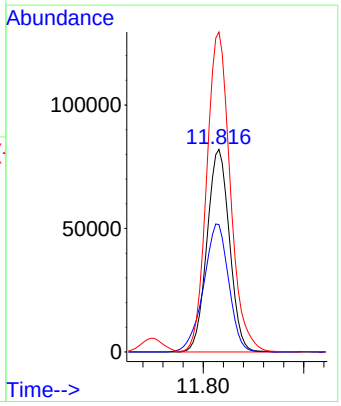




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:152 Resp: 127347

Ion	Ratio	Lower	Upper
152	100		
115	70.6	43.5	130.7
150	165.3	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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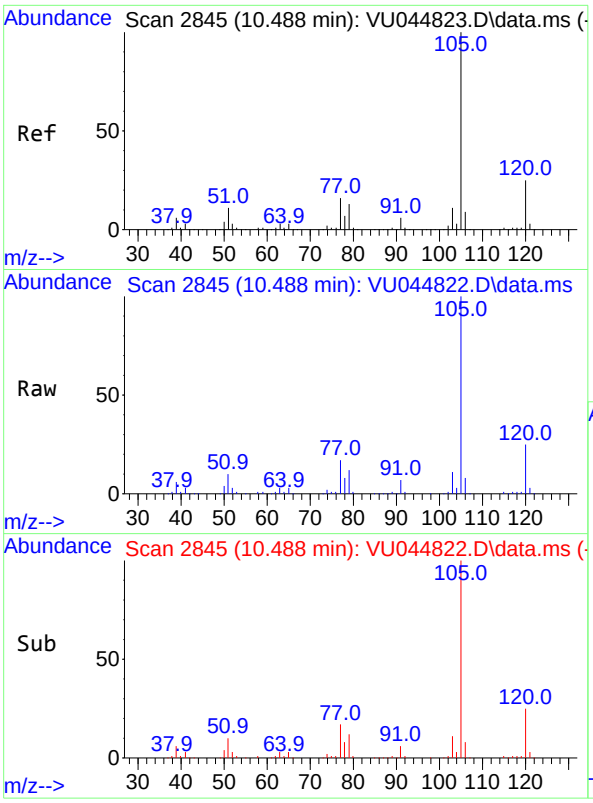
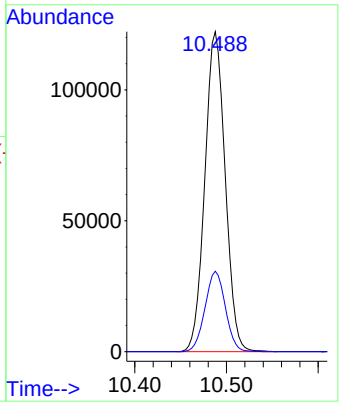
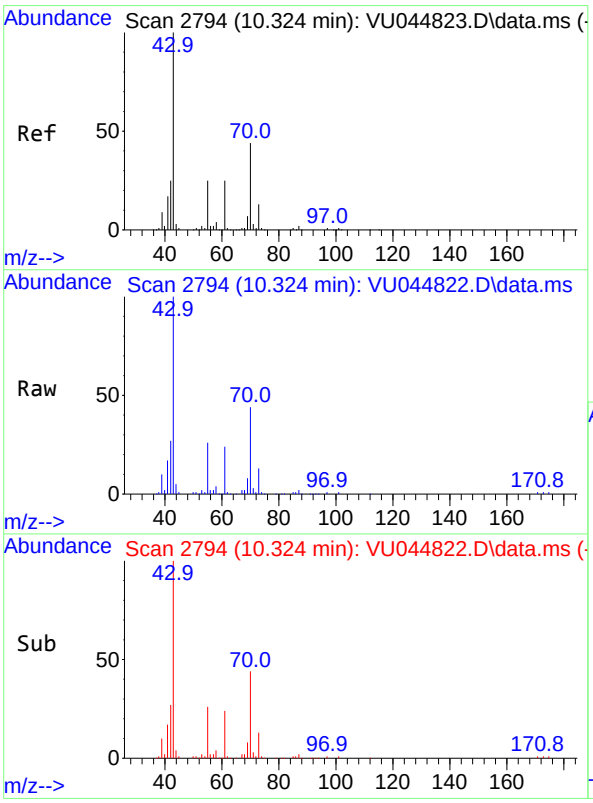


#73
Isopropylbenzene
Concen: 21.836 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:105 Resp: 188519

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.8	38.3

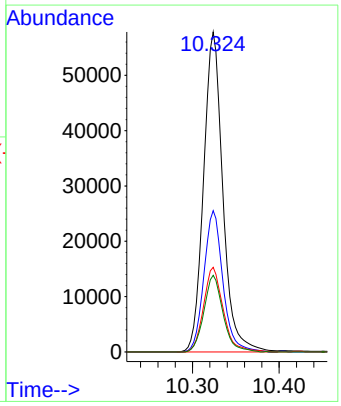




#74
N-amyl acetate
Concen: 22.418 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 43 Resp: 89463

Ion	Ratio	Lower	Upper
43	100		
70	43.6	35.1	52.7
55	26.9	20.5	30.7
61	23.7	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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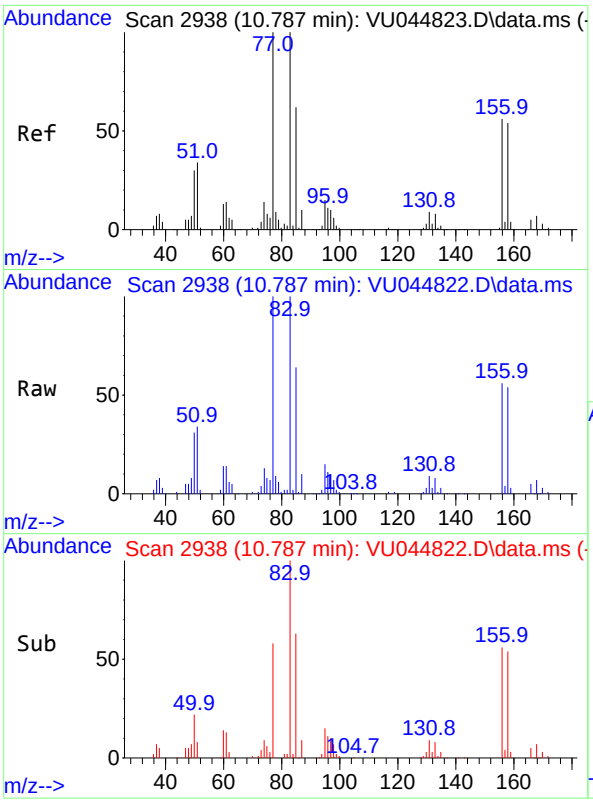
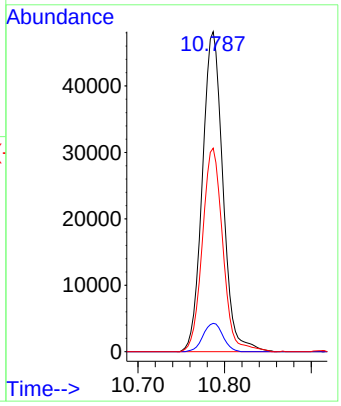
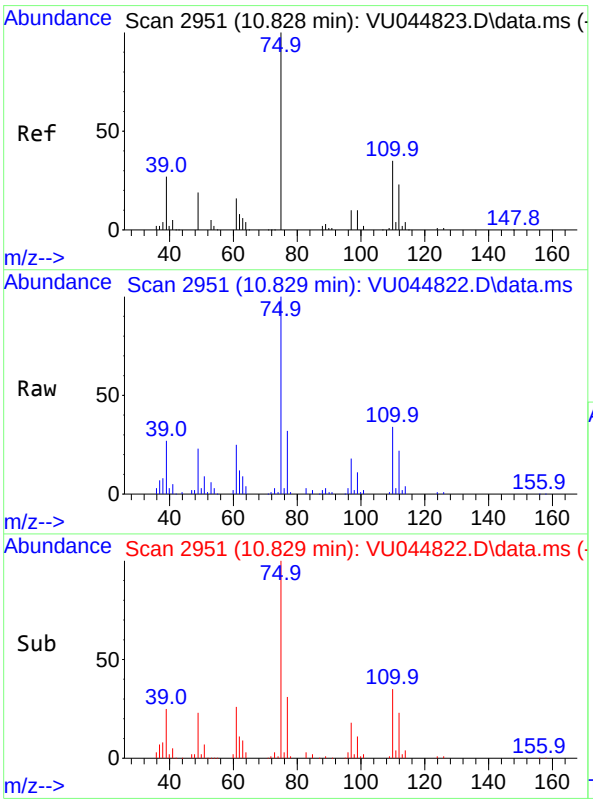


#75
1,1,2,2-Tetrachloroethane
Concen: 20.992 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 83 Resp: 79256

Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.3	13.1
85	63.3	31.9	95.5

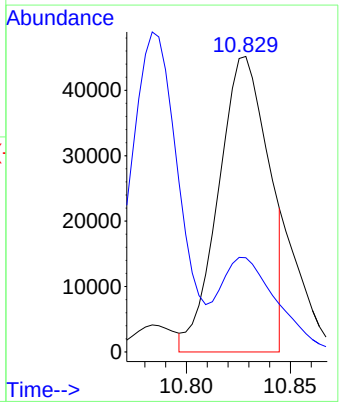




#76
1,2,3-Trichloropropane
Concen: 18.014 ug/l m
RT: 10.829 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 75 Resp: 75462

Ion	Ratio	Lower	Upper
75	100		
77	37.3	17.9	53.7



Instrument :
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ClientSampleId :
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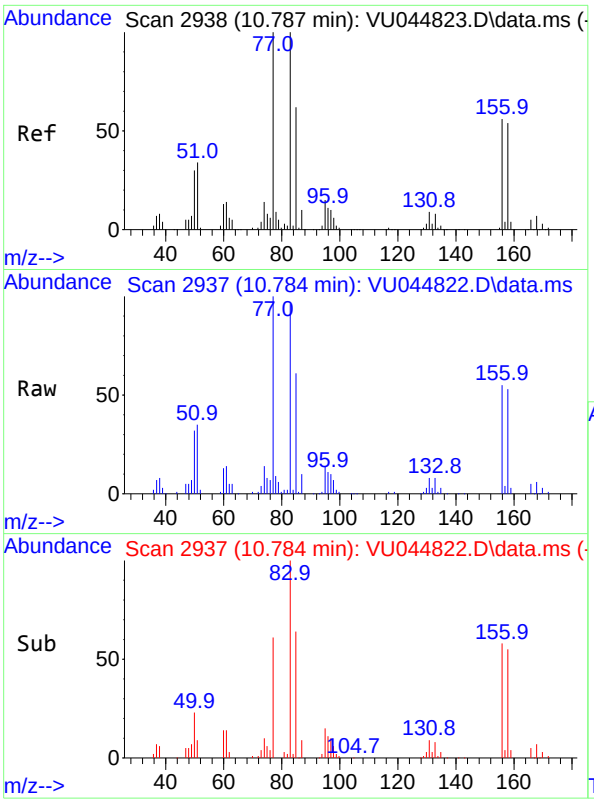
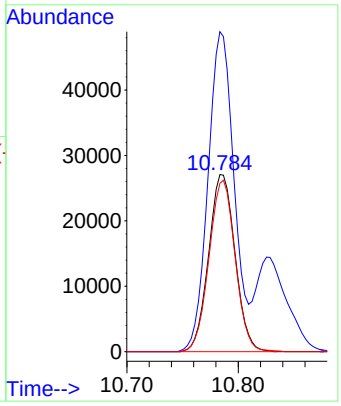
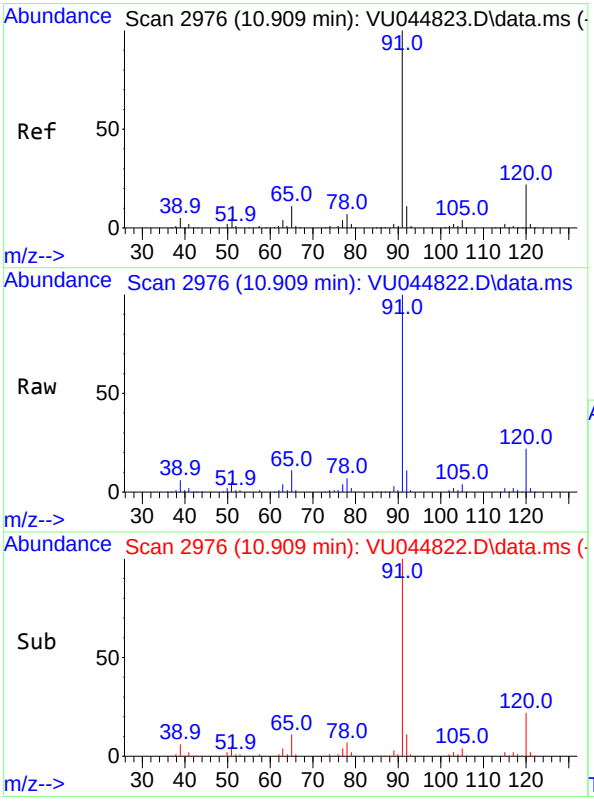


#77
Bromobenzene
Concen: 20.633 ug/l
RT: 10.784 min Scan# 2937
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:156 Resp: 44680

Ion	Ratio	Lower	Upper
156	100		
77	177.1	91.1	273.4
158	95.6	48.2	144.6

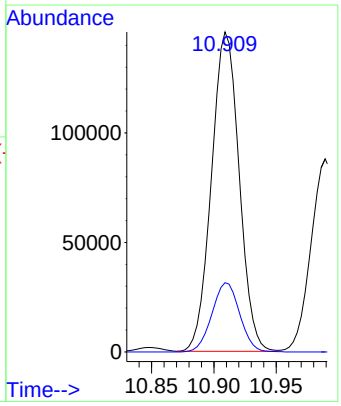




#78
n-propylbenzene
Concen: 20.164 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 91 Resp: 225222

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.8	32.4



Instrument :
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ClientSampleId :
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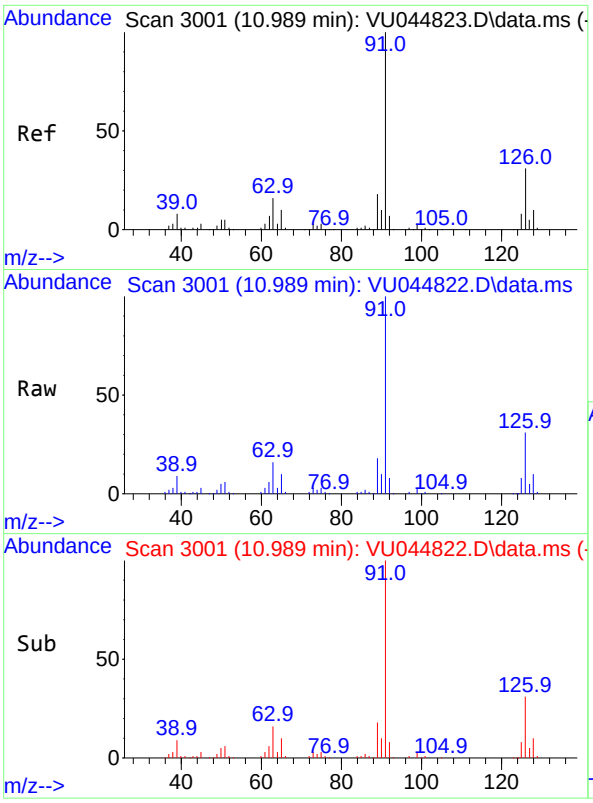
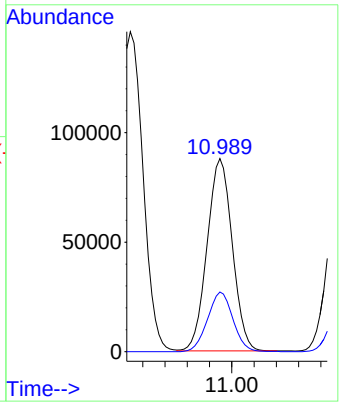
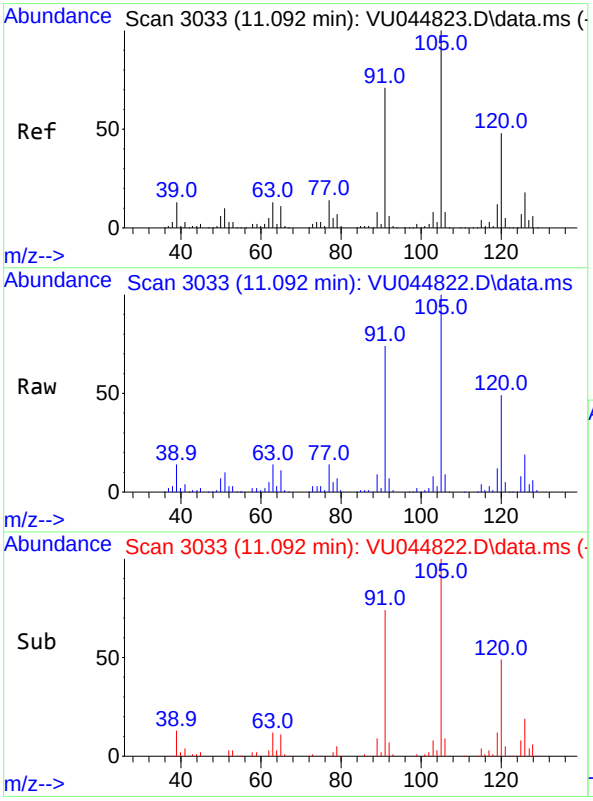


#79
2-Chlorotoluene
Concen: 20.783 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 91 Resp: 137762

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.7	47.0

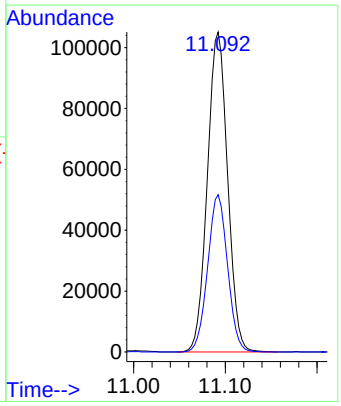




#80
1,3,5-Trimethylbenzene
Concen: 21.101 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:105 Resp: 160985

Ion	Ratio	Lower	Upper
105	100		
120	48.3	24.1	72.2



Instrument :
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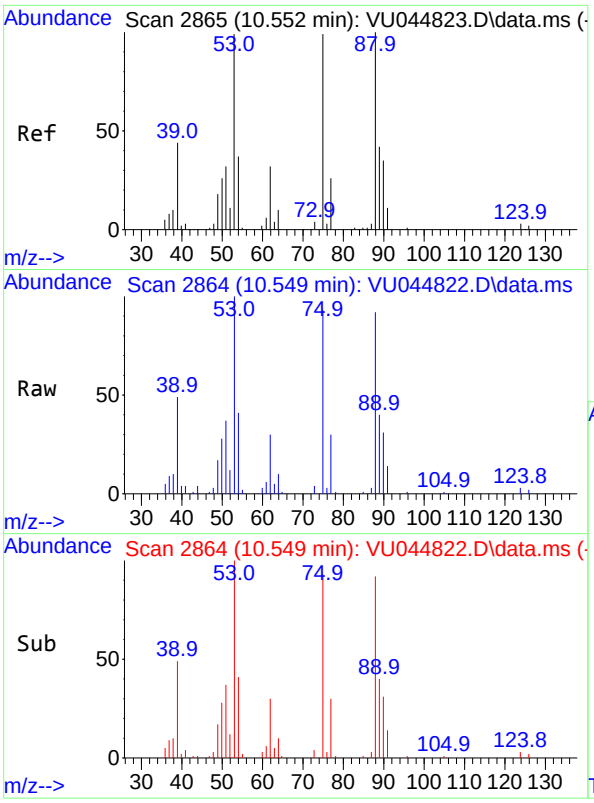
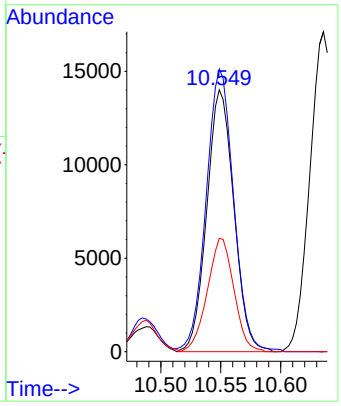
9/27/2021 11:02:37 AM

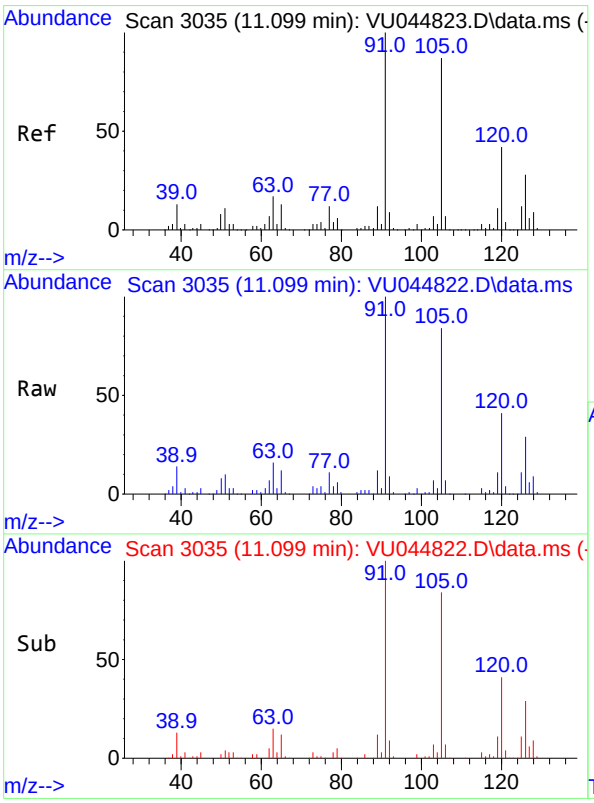


#81
trans-1,4-Dichloro-2-butene
Concen: 18.598 ug/l
RT: 10.549 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 75 Resp: 21994

Ion	Ratio	Lower	Upper
75	100		
53	109.4	82.0	123.0
89	42.4	34.2	51.4

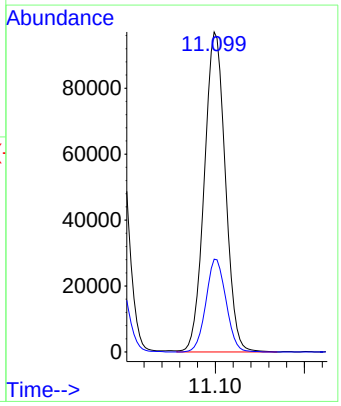




#82
4-Chlorotoluene
Concen: 20.393 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 91 Resp: 158760

Ion	Ratio	Lower	Upper
91	100		
126	27.7	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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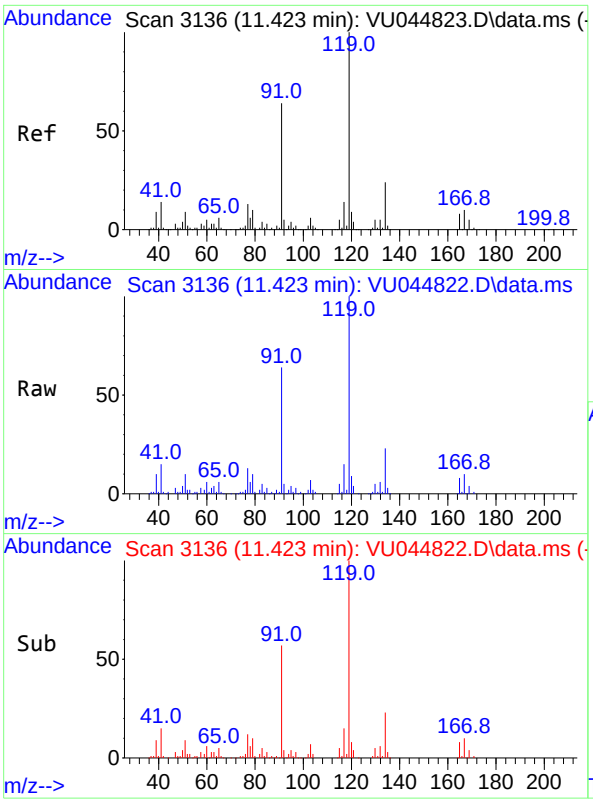
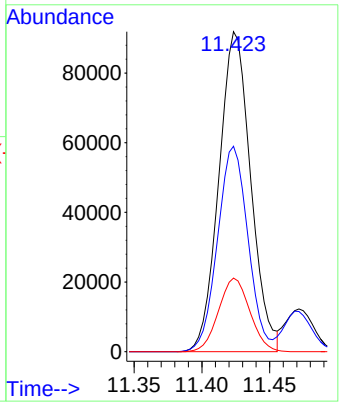
9/27/2021 11:02:37 AM

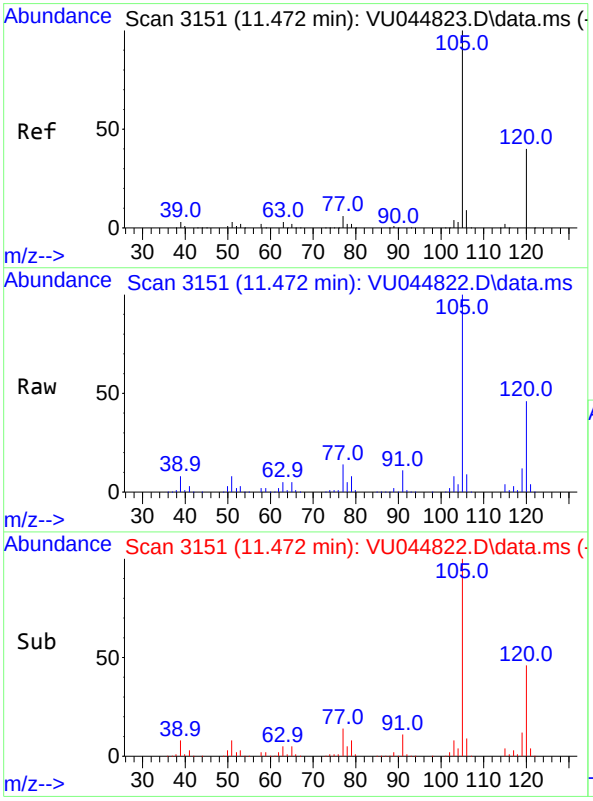


#83
tert-Butylbenzene
Concen: 20.908 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:119 Resp: 150111

Ion	Ratio	Lower	Upper
119	100		
91	61.6	30.4	91.2
134	22.6	11.5	34.5

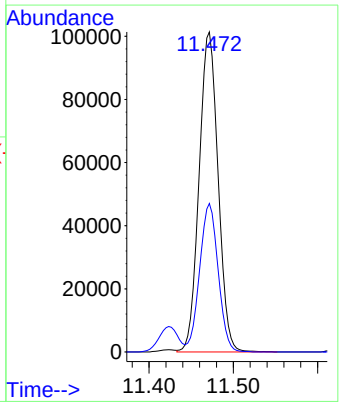




#84
1,2,4-Trimethylbenzene
Concen: 20.831 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:105 Resp: 159038

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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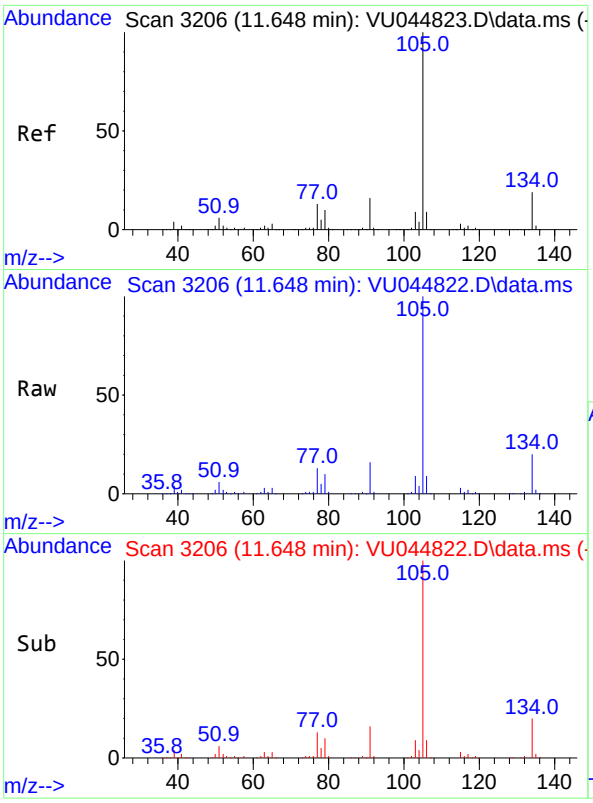
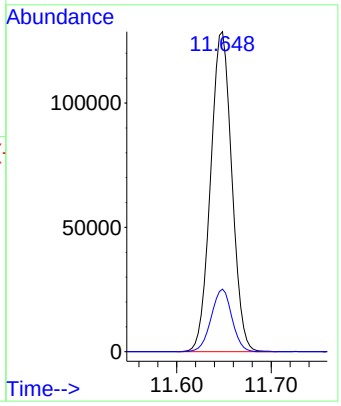
9/27/2021 11:02:37 AM

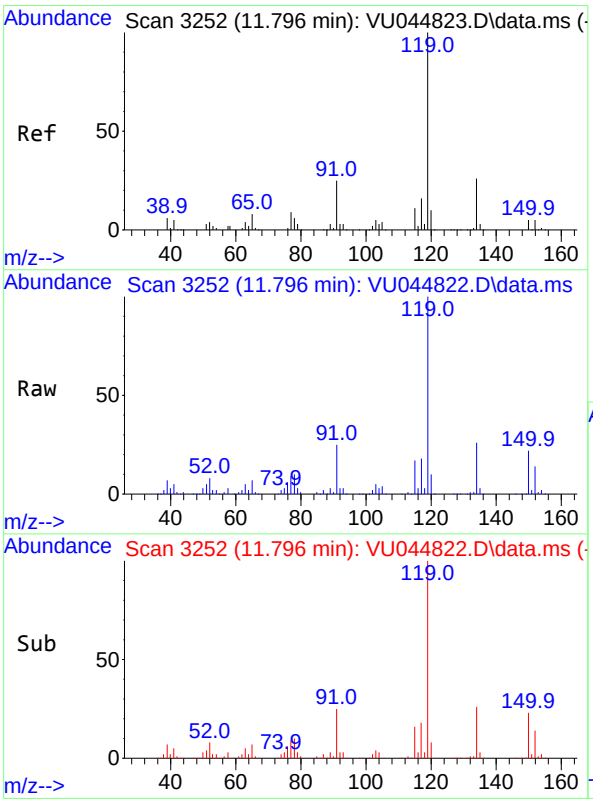


#85
sec-Butylbenzene
Concen: 21.204 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:105 Resp: 200725

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.3	28.0

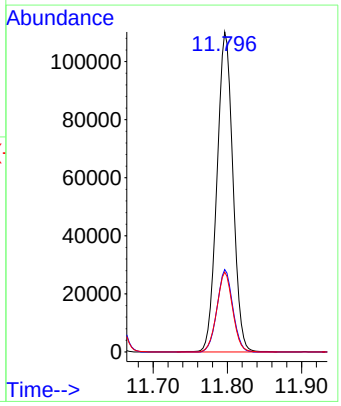




#86
p-Isopropyltoluene
Concen: 20.573 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:119 Resp: 164668

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.3
91	24.7	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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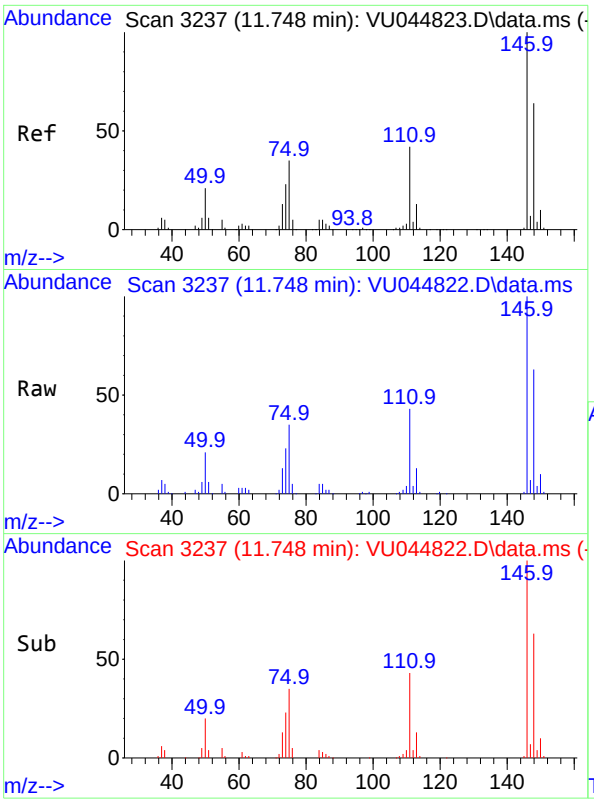
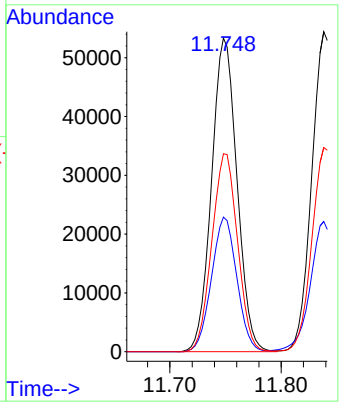
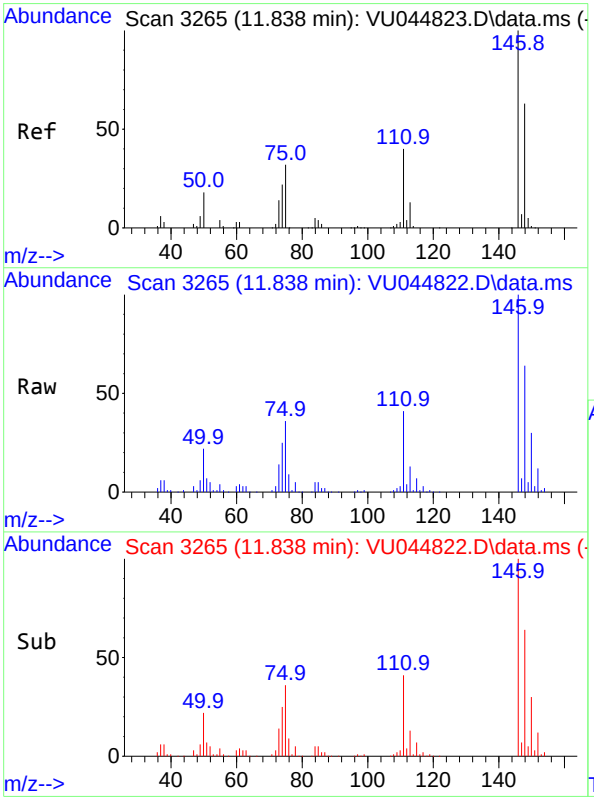


#87
1,3-Dichlorobenzene
Concen: 20.012 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:146 Resp: 84547

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.2	63.6
148	63.8	32.1	96.3

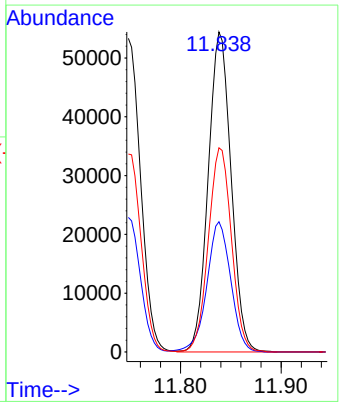




#88
1,4-Dichlorobenzene
Concen: 19.165 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:146 Resp: 86103

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.3	61.0
148	64.5	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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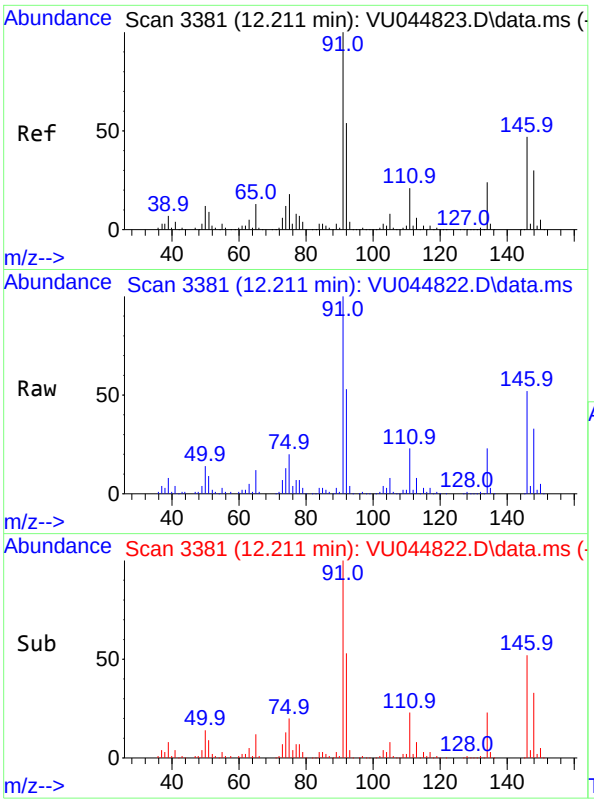
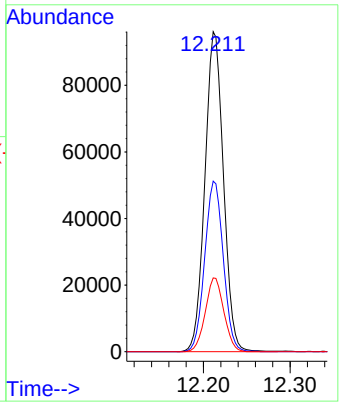
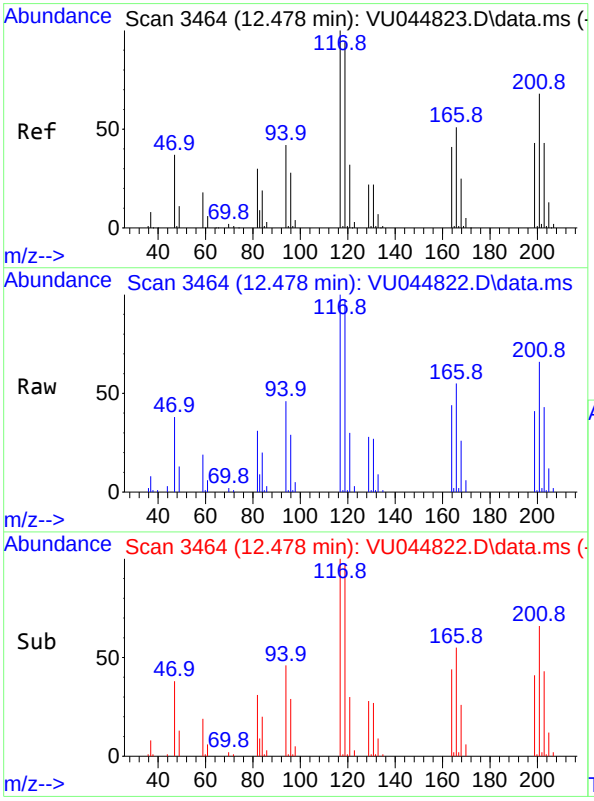


#89
n-Butylbenzene
Concen: 17.707 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 91 Resp: 142853

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.8	80.4
134	23.0	11.8	35.4

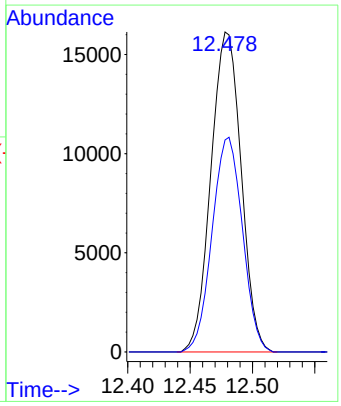




#90
Hexachloroethane
Concen: 21.074 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:117 Resp: 27241

Ion	Ratio	Lower	Upper
117	100		
201	67.3	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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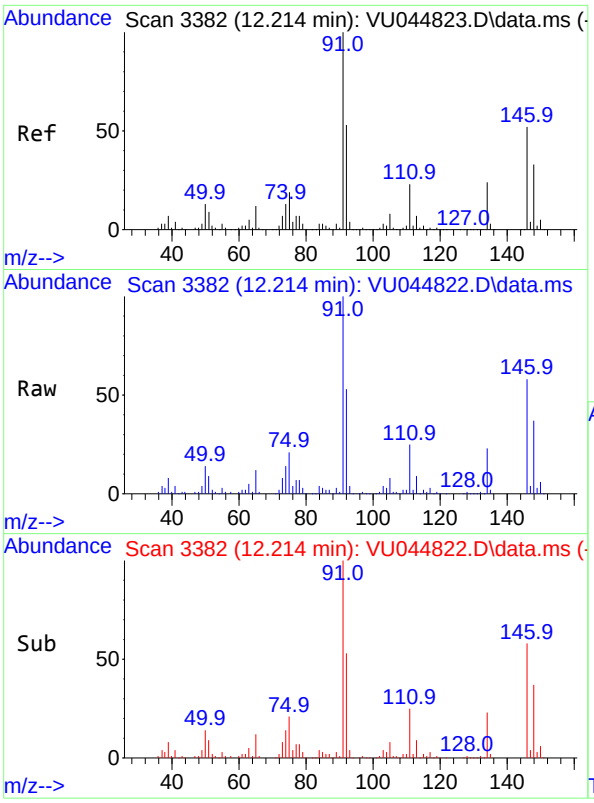
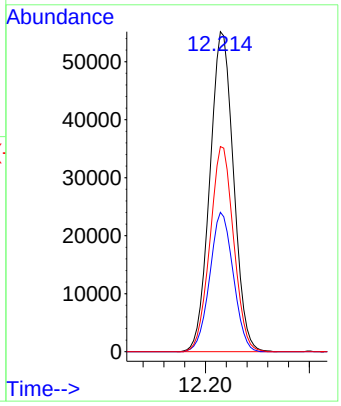
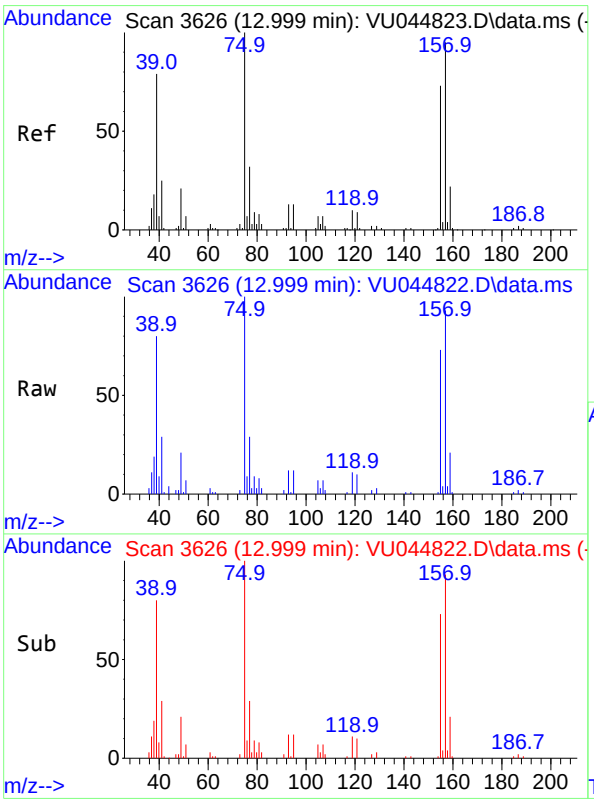


#91
1,2-Dichlorobenzene
Concen: 20.401 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:146 Resp: 87329

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.4	64.3
148	64.1	31.8	95.3

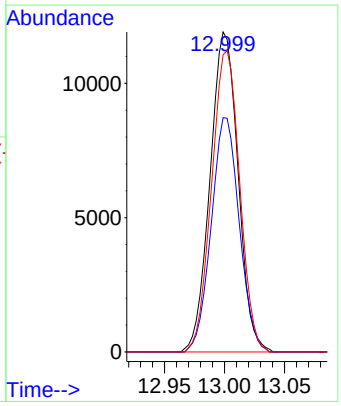




#92
1,2-Dibromo-3-Chloropropane
Concen: 22.053 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion: 75 Resp: 19310

Ion	Ratio	Lower	Upper
75	100		
155	73.3	36.9	110.6
157	94.5	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

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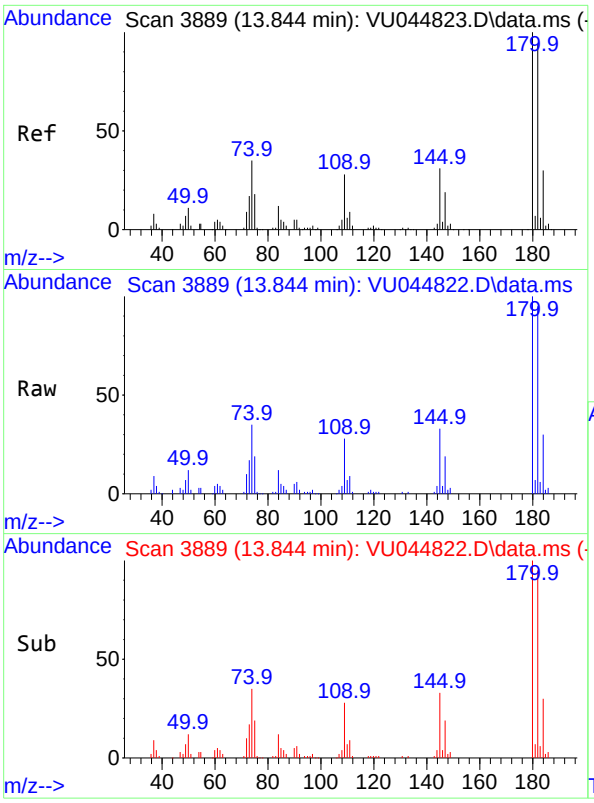
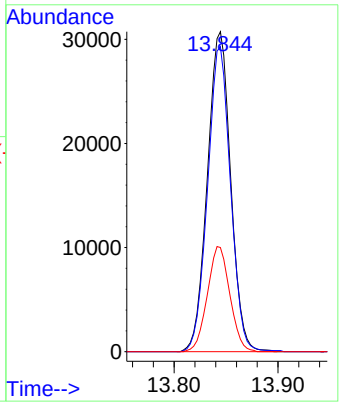
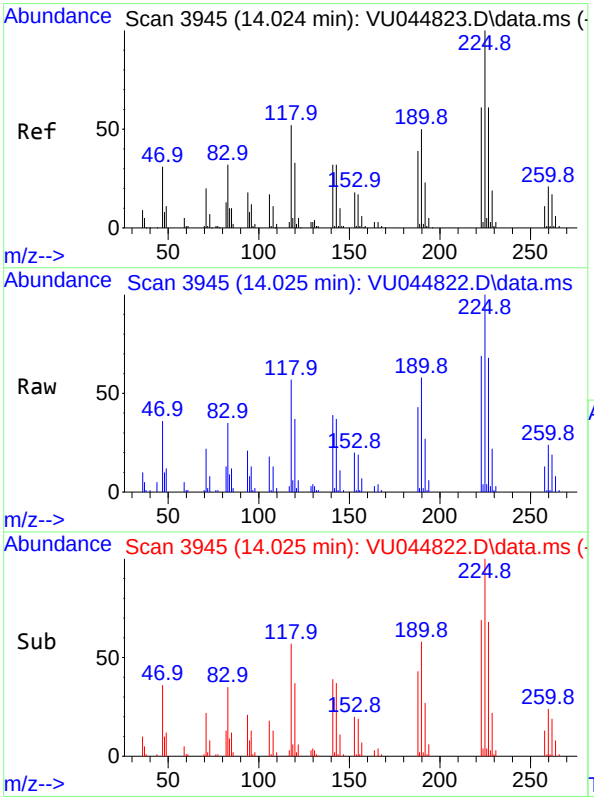


#93
1,2,4-Trichlorobenzene
Concen: 17.912 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:180 Resp: 47813

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.4	142.3
145	31.7	15.4	46.2

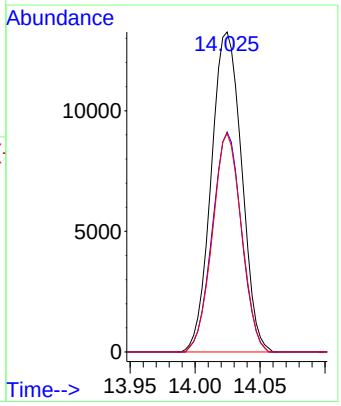




#94
Hexachlorobutadiene
Concen: 15.630 ug/l
RT: 14.025 min Scan# 3945
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:225 Resp: 21615

Ion	Ratio	Lower	Upper
225	100		
223	65.7	31.1	93.3
227	65.1	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
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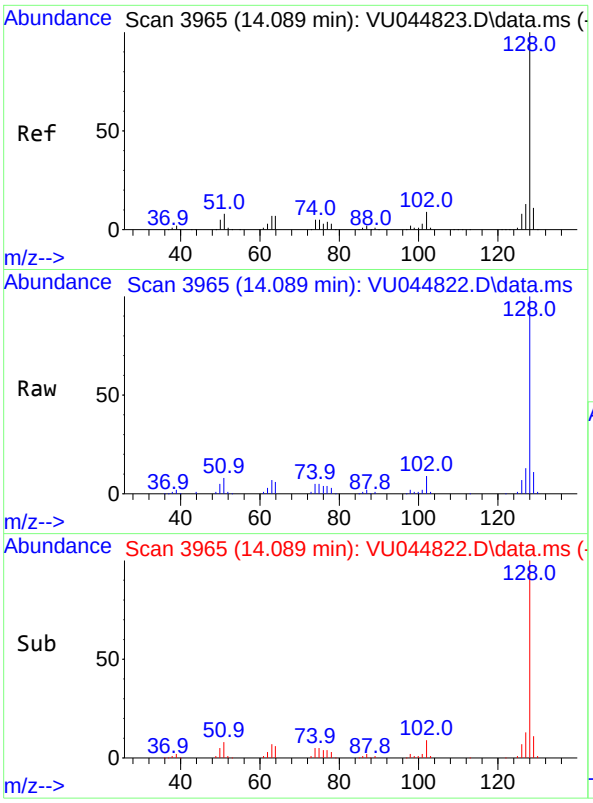
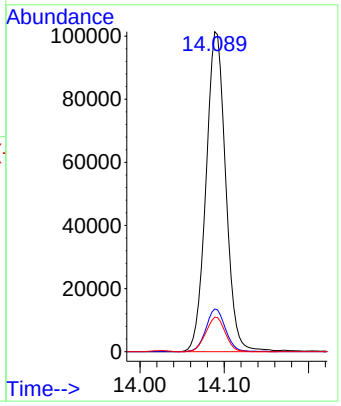
9/27/2021 11:02:37 AM

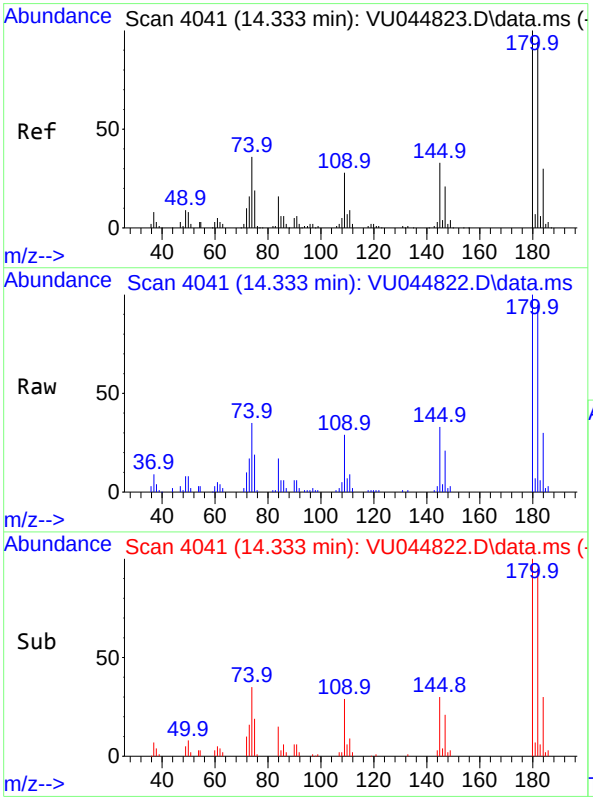


#95
Naphthalene
Concen: 18.991 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:128 Resp: 164547

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.7	8.6	13.0

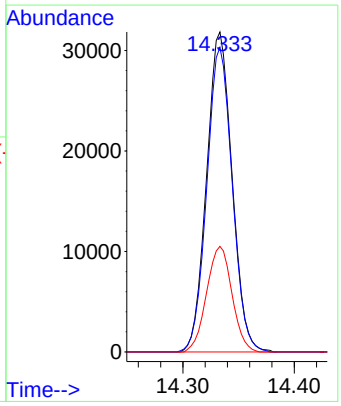




#96
1,2,3-Trichlorobenzene
Concen: 19.306 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU044822.D
Acq: 24 Sep 2021 20:29

Tgt Ion:180 Resp: 50564

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.1	141.4
145	32.9	16.4	49.2



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044823.D
Acq On : 24 Sep 2021 20:53
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 25 00:58:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICCC050

Manual Integrations APPROVED
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9/27/2021 11:02:41 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	158901	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	283169	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	269946	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	136831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	137038	53.006	ug/l	0.00
Spiked Amount 50.000			Recovery = 106.020%			
35) Dibromofluoromethane	5.295	113	95918	48.835	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.680%			
50) Toluene-d8	7.902	98	367921	48.791	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.580%			
62) 4-Bromofluorobenzene	10.636	95	133029	44.787	ug/l	0.00
Spiked Amount 50.000			Recovery = 89.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	97562	44.213	ug/l	100
3) Chloromethane	1.520	50	136623	45.751	ug/l	100
4) Vinyl Chloride	1.607	62	133417	49.362	ug/l	100
5) Bromomethane	1.848	94	65571	58.314	ug/l	100
6) Chloroethane	1.928	64	88335	50.745	ug/l	100
7) Trichlorofluoromethane	2.137	101	164571	50.460	ug/l	100
8) Diethyl Ether	2.379	74	76606	56.200	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.581	101	97060	49.050	ug/l	100
10) Methyl Iodide	2.726	142	111776	50.023	ug/l	100
11) Tert butyl alcohol	3.205	59	193657	273.313	ug/l	100
12) 1,1-Dichloroethene	2.581	96	95052	48.374	ug/l	100
13) Acrolein	2.491	56	54457	148.644	ug/l	100
14) Allyl chloride	2.925	41	187531	50.785	ug/l	100
15) Acrylonitrile	3.321	53	431719	295.431	ug/l	100
16) Acetone	2.633	43	377099	248.024	ug/l	100
17) Carbon Disulfide	2.797	76	265444	42.842	ug/l	100
18) Methyl Acetate	2.951	43	258619	72.195	ug/l	100
19) Methyl tert-butyl Ether	3.369	73	368221	59.351	ug/l	100
20) Methylene Chloride	3.051	84	119189	46.203	ug/l	100
21) trans-1,2-Dichloroethene	3.356	96	103710	48.013	ug/l	100
22) Diisopropyl ether	3.999	45	379242	58.349	ug/l	100
23) Vinyl Acetate	3.961	43	1582962	263.485	ug/l	100
24) 1,1-Dichloroethane	3.877	63	215708	50.937	ug/l	100
25) 2-Butanone	4.710	43	609256	280.257	ug/l	100
26) 2,2-Dichloropropane	4.671	77	159419	48.160	ug/l	100
27) cis-1,2-Dichloroethene	4.671	96	123590	50.675	ug/l	100
28) Bromochloromethane	4.980	49	101593	50.436	ug/l	100
29) Tetrahydrofuran	5.054	42	388715	320.588	ug/l	100
30) Chloroform	5.092	83	210377	50.864	ug/l	100
31) Cyclohexane	5.395	56	192556	52.473	ug/l	100
32) 1,1,1-Trichloroethane	5.321	97	173231	50.494	ug/l	100
36) 1,1-Dichloropropene	5.530	75	152856	48.487	ug/l	100
37) Ethyl Acetate	4.809	43	221224	56.806	ug/l	100
38) Carbon Tetrachloride	5.530	117	139707	49.060	ug/l	100
39) Methylcyclohexane	6.768	83	179440	52.616	ug/l	100
40) Benzene	5.777	78	460770	49.252	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044823.D
Acq On : 24 Sep 2021 20:53
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VSTDICCC050

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:41 AM

Quant Time: Sep 25 00:58:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.977	41	116342	58.550	ug/l		100
42) 1,2-Dichloroethane	5.800	62	178918	53.164	ug/l		100
43) Isopropyl Acetate	5.915	43	312805	56.842	ug/l		100
44) Trichloroethene	6.546	130	106944	49.509	ug/l		100
45) 1,2-Dichloropropane	6.796	63	129301	50.360	ug/l		100
46) Dibromomethane	6.922	93	83511	50.549	ug/l		100
47) Bromodichloromethane	7.112	83	165315	50.925	ug/l		100
48) Methyl methacrylate	6.964	41	152845	57.176	ug/l		100
49) 1,4-Dioxane	6.980	88	80075	1149.103	ug/l		100
51) 4-Methyl-2-Pentanone	7.796	43	1135731	286.177	ug/l		100
52) Toluene	7.973	92	282432	50.972	ug/l		100
53) t-1,3-Dichloropropene	8.214	75	177843	50.461	ug/l		100
54) cis-1,3-Dichloropropene	7.610	75	191216	50.326	ug/l		100
55) 1,1,2-Trichloroethane	8.404	97	117890	50.396	ug/l		100
56) Ethyl methacrylate	8.337	69	196116	54.821	ug/l		100
57) 1,3-Dichloropropane	8.581	76	210647	50.699	ug/l		100
58) 2-Chloroethyl Vinyl ether	7.468	63	215292	204.447	ug/l		100
59) 2-Hexanone	8.690	43	908964	286.602	ug/l		100
60) Dibromochloromethane	8.812	129	115148	49.815	ug/l		100
61) 1,2-Dibromoethane	8.928	107	124295	50.522	ug/l		100
64) Tetrachloroethene	8.558	164	94980	50.773	ug/l		100
65) Chlorobenzene	9.449	112	283648	48.990	ug/l		100
66) 1,1,1,2-Tetrachloroethane	9.539	131	101747	50.239	ug/l		100
67) Ethyl Benzene	9.574	91	529966	51.091	ug/l		100
68) m/p-Xylenes	9.697	106	411341	105.850	ug/l		100
69) o-Xylene	10.105	106	198558	53.709	ug/l		100
70) Styrene	10.118	104	339230	53.001	ug/l		100
71) Bromoform	10.295	173	83856	49.081	ug/l	#	100
73) Isopropylbenzene	10.488	105	516280	55.655	ug/l		100
74) N-amyl acetate	10.324	43	263710	61.502	ug/l		100
75) 1,1,2,2-Tetrachloroethane	10.787	83	213664	52.669	ug/l		100
76) 1,2,3-Trichloropropane	10.828	75	202818m	45.061	ug/l		
77) Bromobenzene	10.787	156	118746	51.035	ug/l		100
78) n-propylbenzene	10.909	91	631922	52.653	ug/l		100
79) 2-Chlorotoluene	10.989	91	374541	52.586	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	448934	54.764	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.552	75	65511	51.556	ug/l		100
82) 4-Chlorotoluene	11.099	91	432718	51.731	ug/l		100
83) tert-Butylbenzene	11.423	119	419823	54.421	ug/l		100
84) 1,2,4-Trimethylbenzene	11.472	105	446755	54.461	ug/l		100
85) sec-Butylbenzene	11.648	105	561986	55.252	ug/l		100
86) p-Isopropyltoluene	11.796	119	462116	53.733	ug/l		100
87) 1,3-Dichlorobenzene	11.748	146	227192	50.047	ug/l		100
88) 1,4-Dichlorobenzene	11.838	146	231401	47.935	ug/l		100
89) n-Butylbenzene	12.211	91	424496	48.971	ug/l		100
90) Hexachloroethane	12.478	117	75899	54.648	ug/l		100
91) 1,2-Dichlorobenzene	12.214	146	234998	51.092	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.999	75	55801	59.312	ug/l		100
93) 1,2,4-Trichlorobenzene	13.844	180	142245	49.596	ug/l		100
94) Hexachlorobutadiene	14.024	225	60625	40.801	ug/l		100
95) Naphthalene	14.089	128	534751	57.440	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	148096	52.627	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044823.D
Acq On : 24 Sep 2021 20:53
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 25 00:58:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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9/27/2021 11:02:41 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044823.D
Acq On : 24 Sep 2021 20:53
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 25 00:58:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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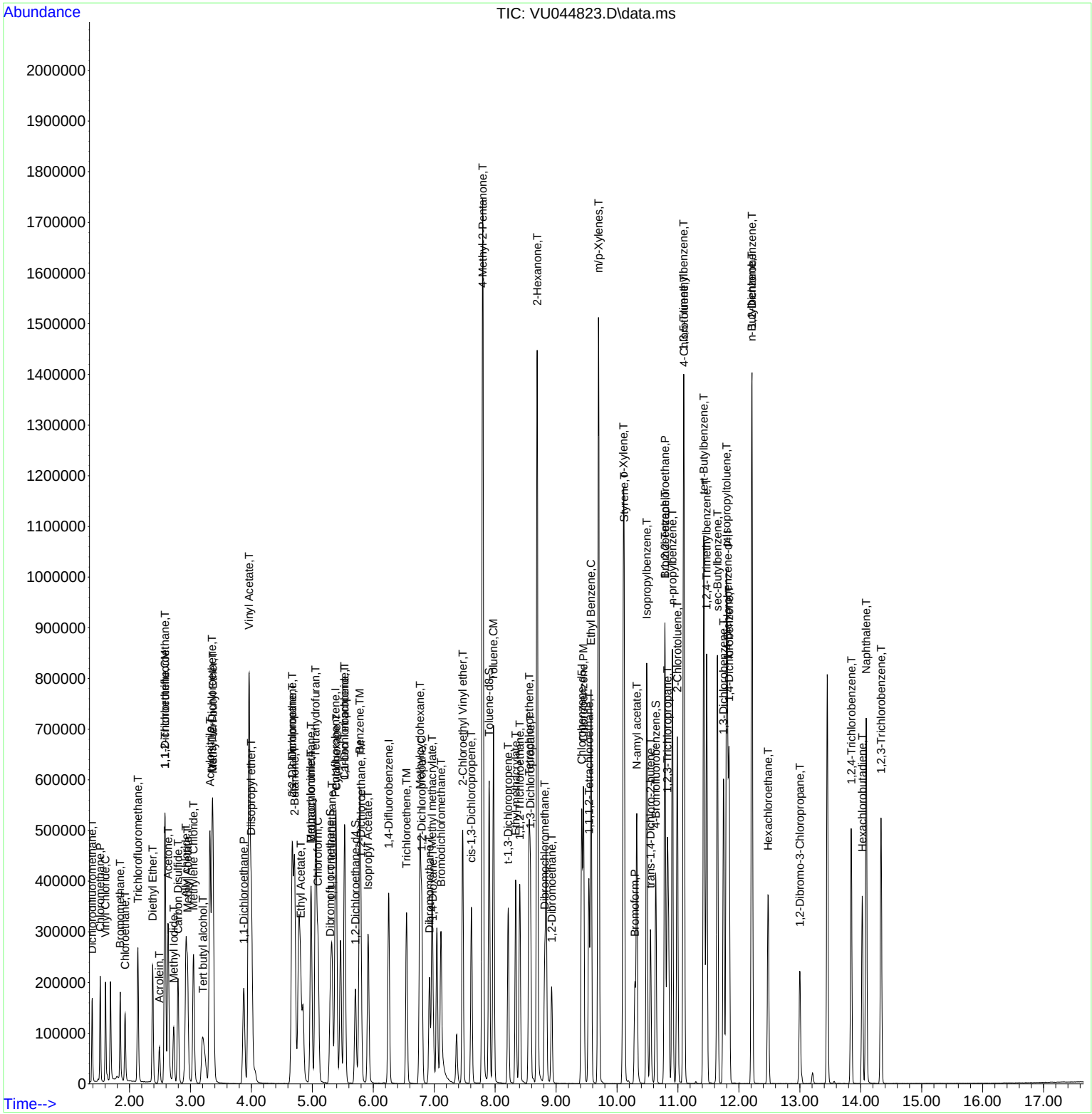

Instrument :
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ClientSampleId :
VSTDICCC050

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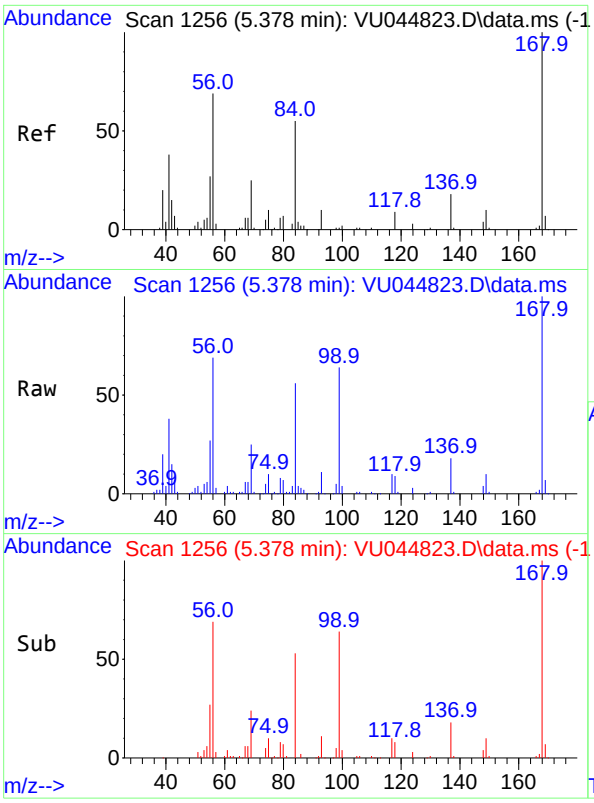
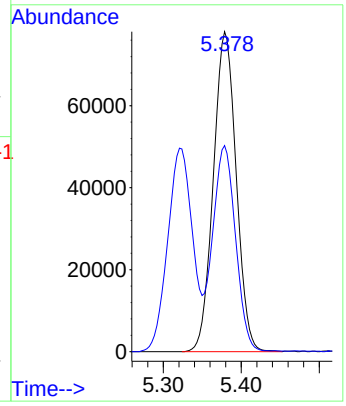
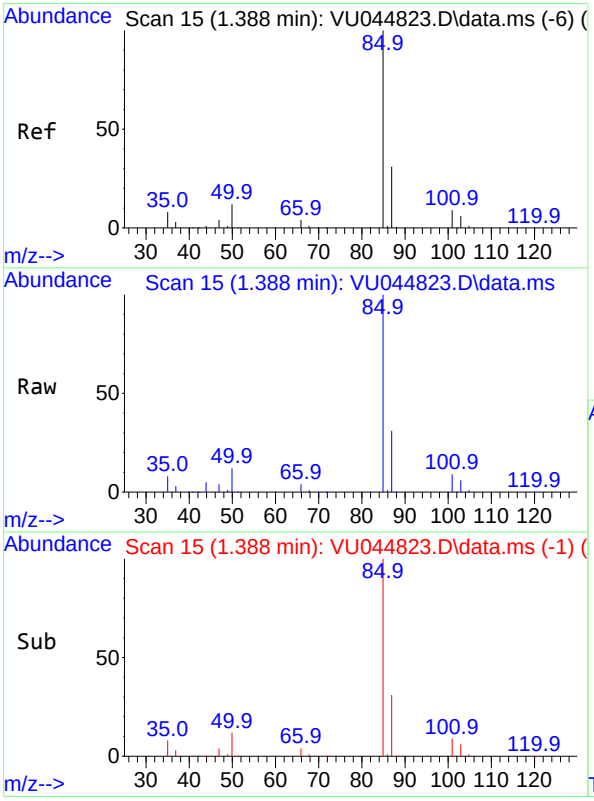


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:168 Resp: 158901

Ion	Ratio	Lower	Upper
168	100		
99	64.2	51.4	77.0

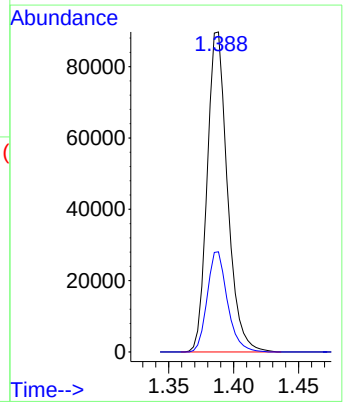




#2
Dichlorodifluoromethane
Concen: 44.213 ug/l
RT: 1.388 min Scan# 15
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 85 Resp: 97562

Ion	Ratio	Lower	Upper
85	100		
87	31.3	15.7	47.0



Instrument :
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ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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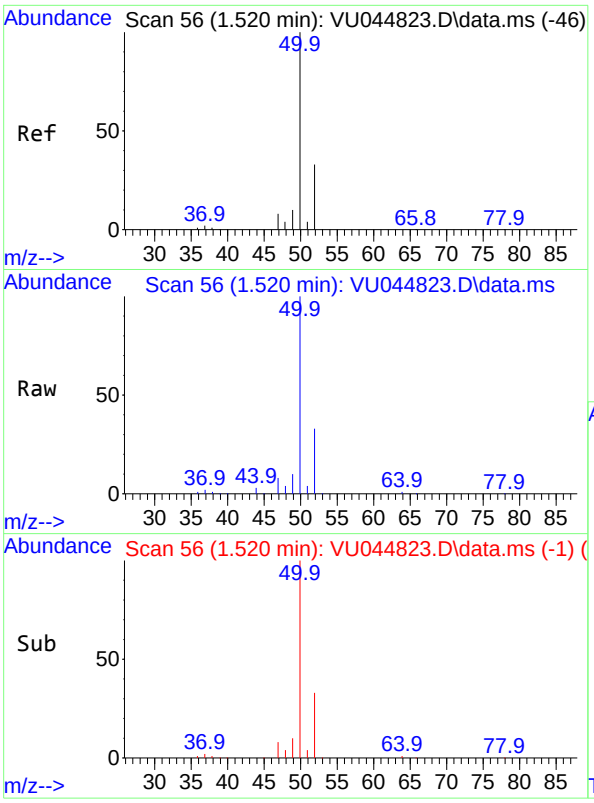
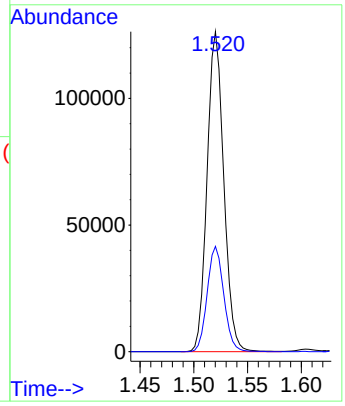
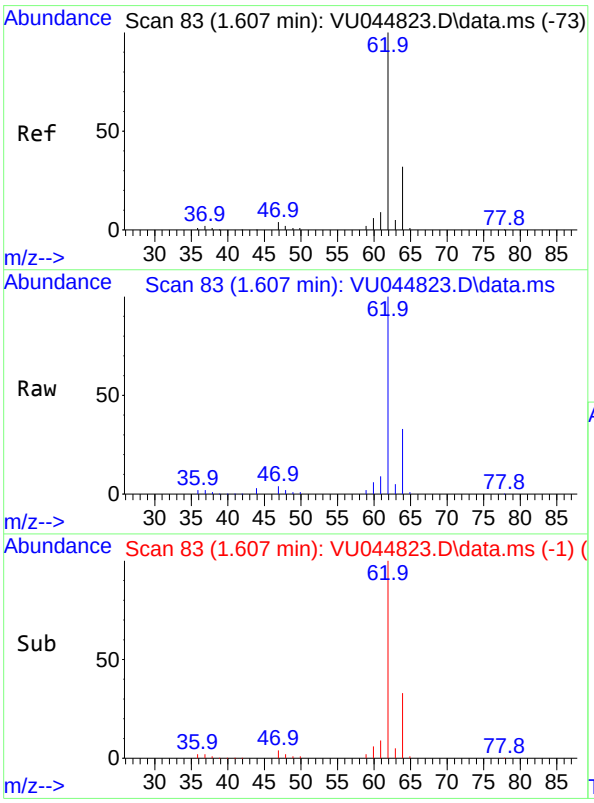


#3
Chloromethane
Concen: 45.751 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 50 Resp: 136623

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.3	39.5

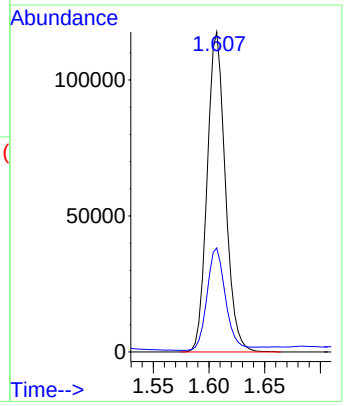




#4
Vinyl Chloride
Concen: 49.362 ug/l
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 62 Resp: 133417

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.6	38.4



Instrument :
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ClientSampleId :
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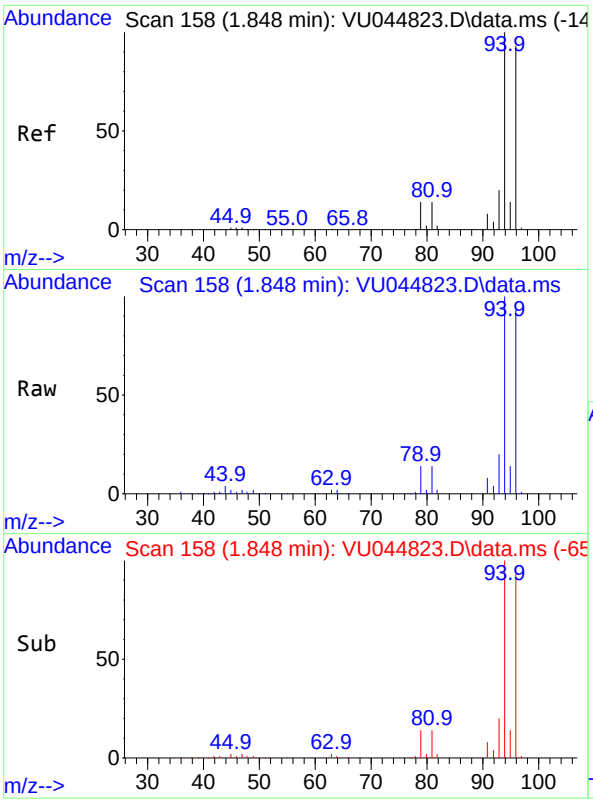
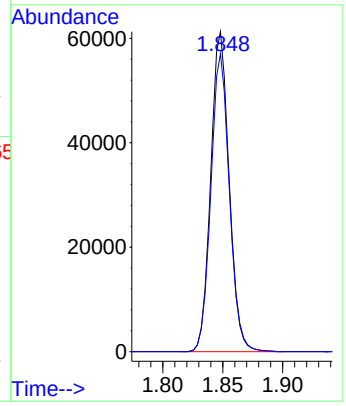
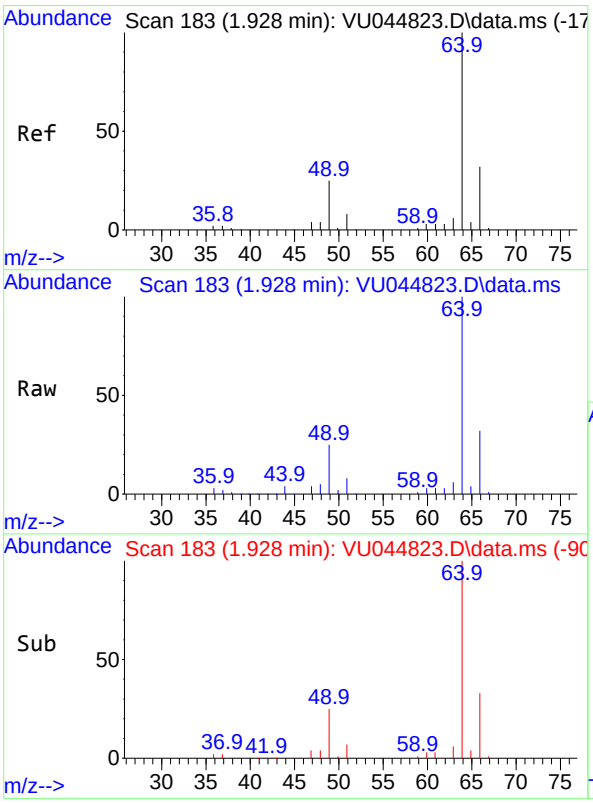


#5
Bromomethane
Concen: 58.314 ug/l
RT: 1.848 min Scan# 158
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 94 Resp: 65571

Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7

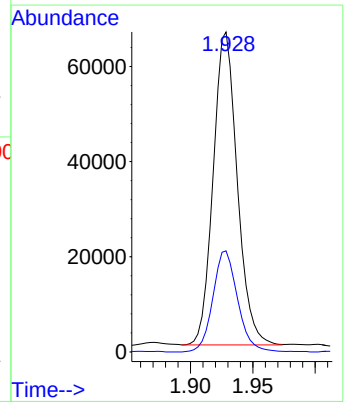




#6
Chloroethane
Concen: 50.745 ug/l
RT: 1.928 min Scan# 183
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 64 Resp: 88335

Ion	Ratio	Lower	Upper
64	100		
66	32.3	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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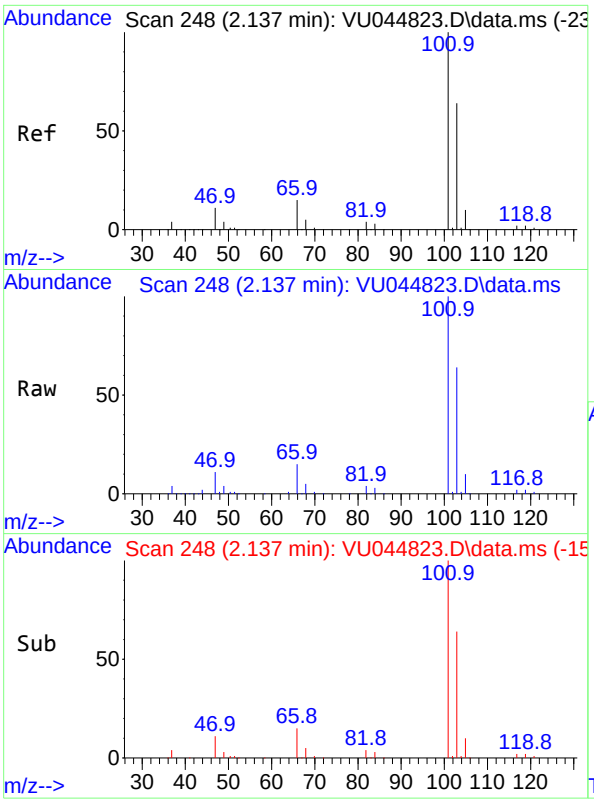
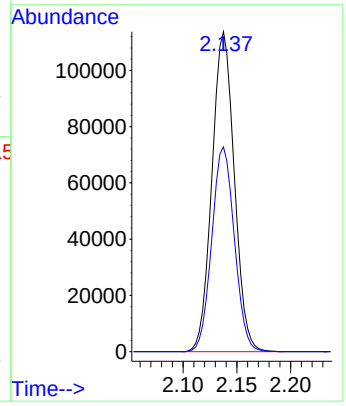
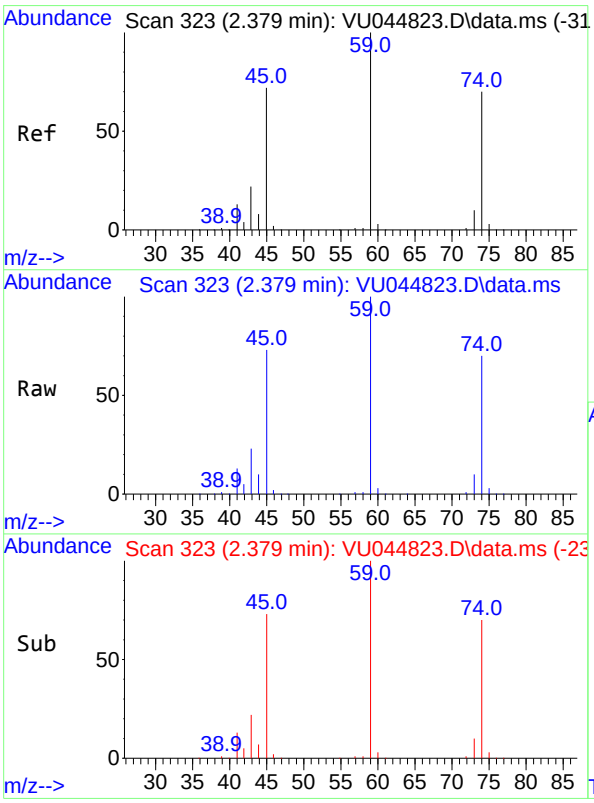


#7
Trichlorofluoromethane
Concen: 50.460 ug/l
RT: 2.137 min Scan# 248
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:101 Resp: 164571

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.2	76.8

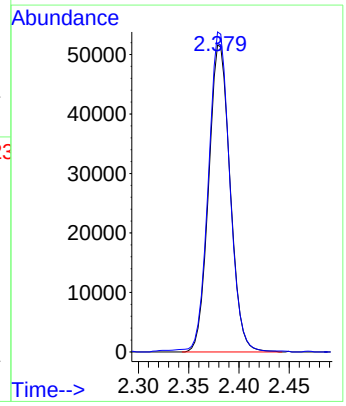




#8
Diethyl Ether
Concen: 56.200 ug/l
RT: 2.379 min Scan# 323
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 74 Resp: 76606

Ion	Ratio	Lower	Upper
74	100		
45	104.4	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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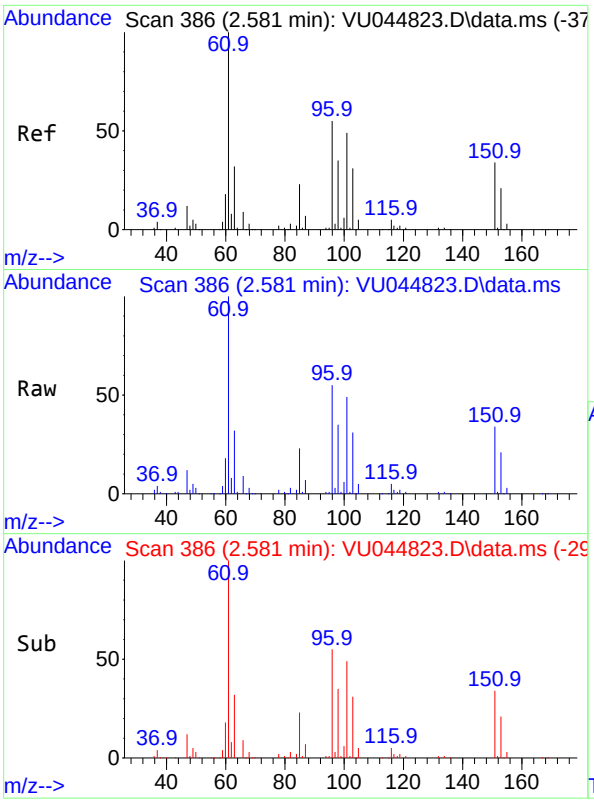
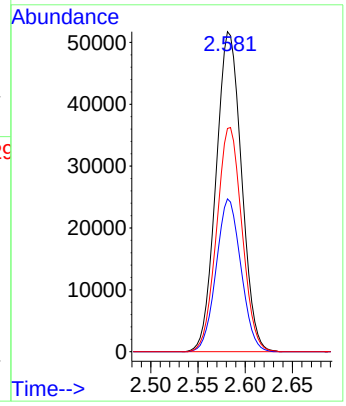
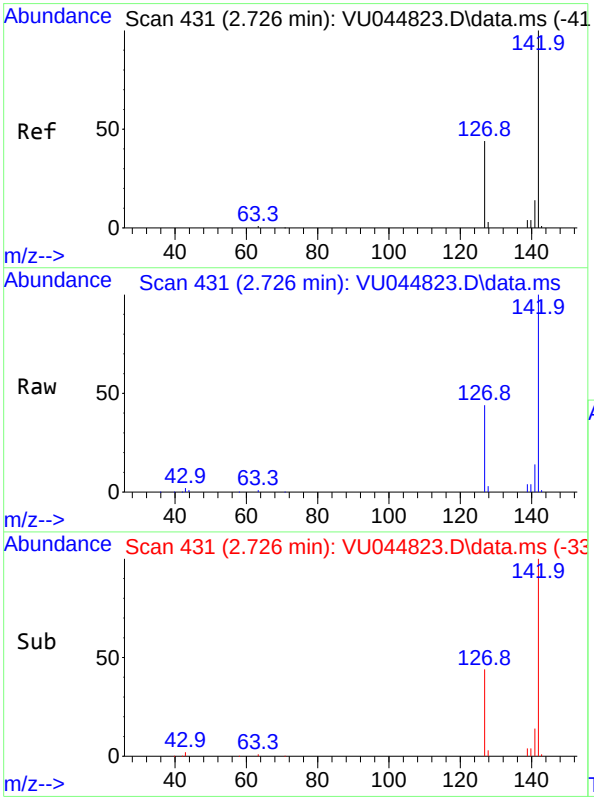


#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.050 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:101 Resp: 97060

Ion	Ratio	Lower	Upper
101	100		
85	46.5	37.2	55.8
151	69.8	55.8	83.8

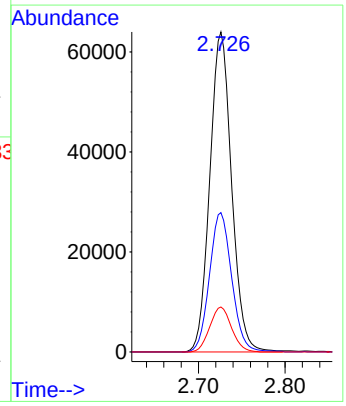




#10
Methyl Iodide
Concen: 50.023 ug/l
RT: 2.726 min Scan# 431
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:142 Resp: 111776

Ion	Ratio	Lower	Upper
142	100		
127	44.5	35.6	53.4
141	14.1	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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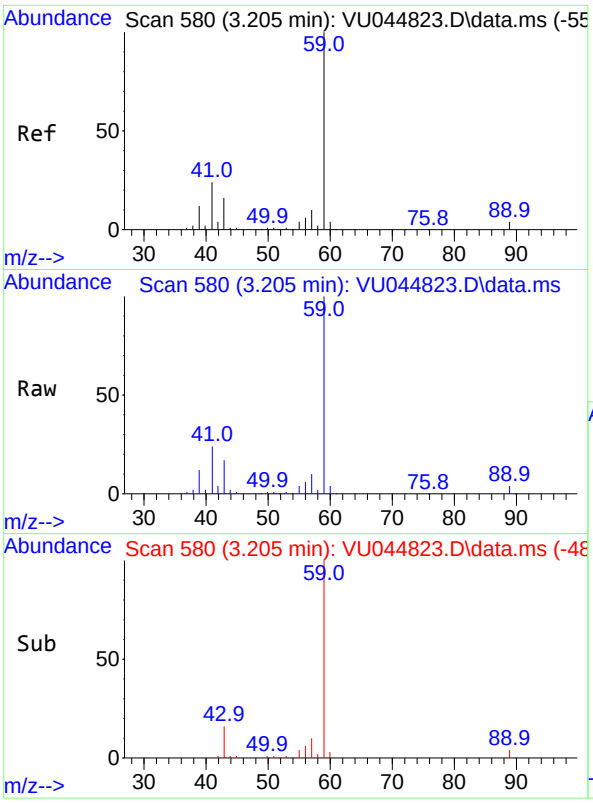
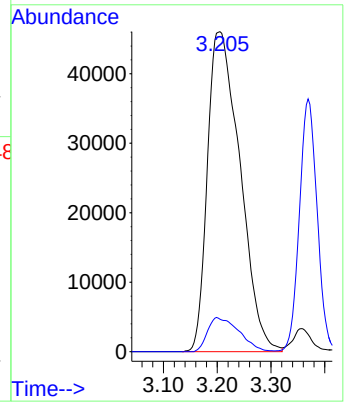
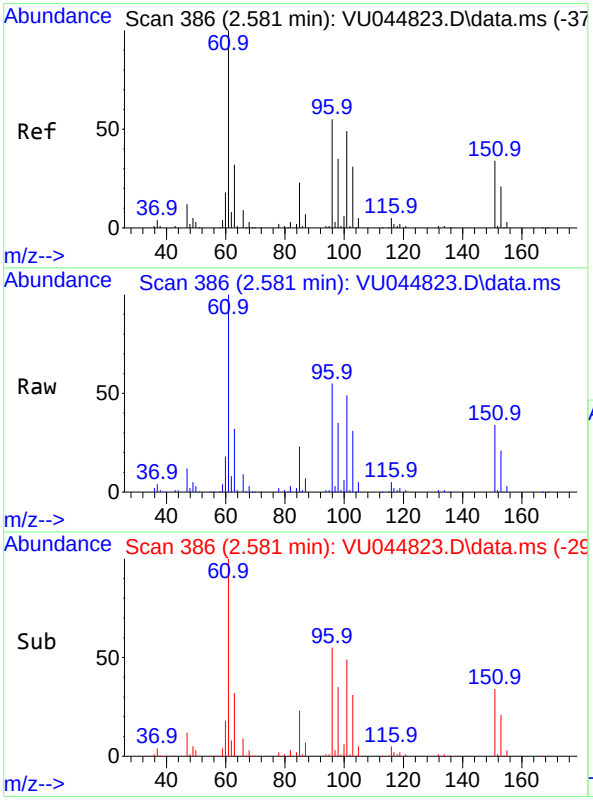


#11
Tert butyl alcohol
Concen: 273.313 ug/l
RT: 3.205 min Scan# 580
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 59 Resp: 193657

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

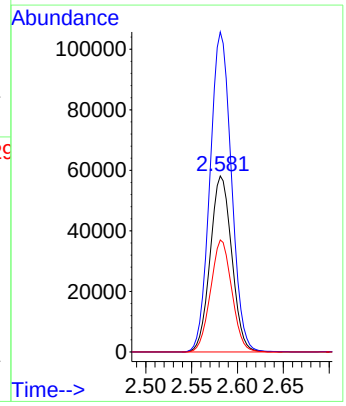




#12
1,1-Dichloroethene
Concen: 48.374 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 96 Resp: 95052

Ion	Ratio	Lower	Upper
96	100		
61	181.7	145.4	218.0
98	63.6	50.9	76.3



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ClientSampleId :
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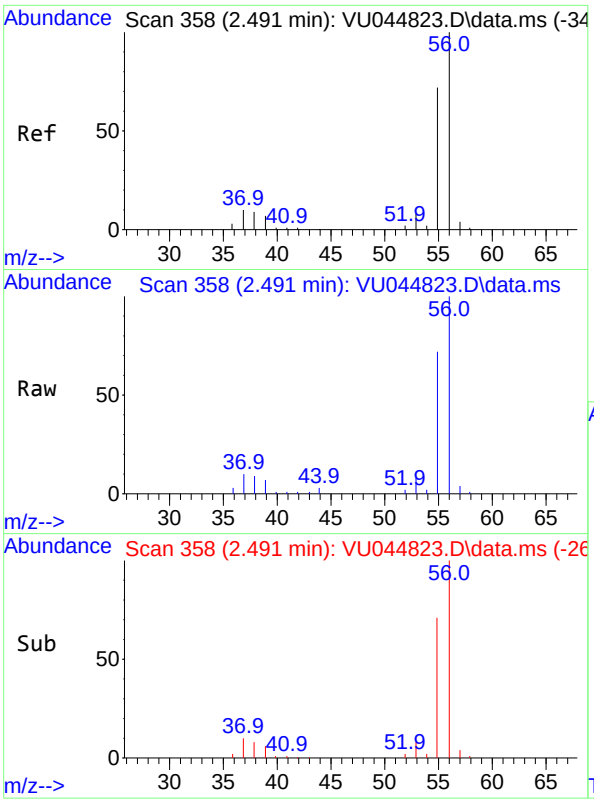
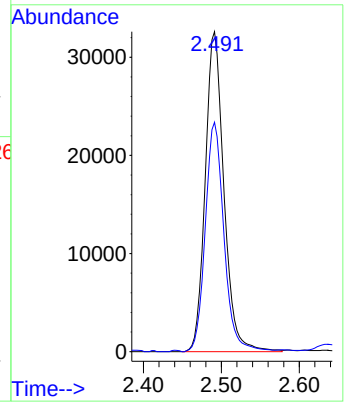
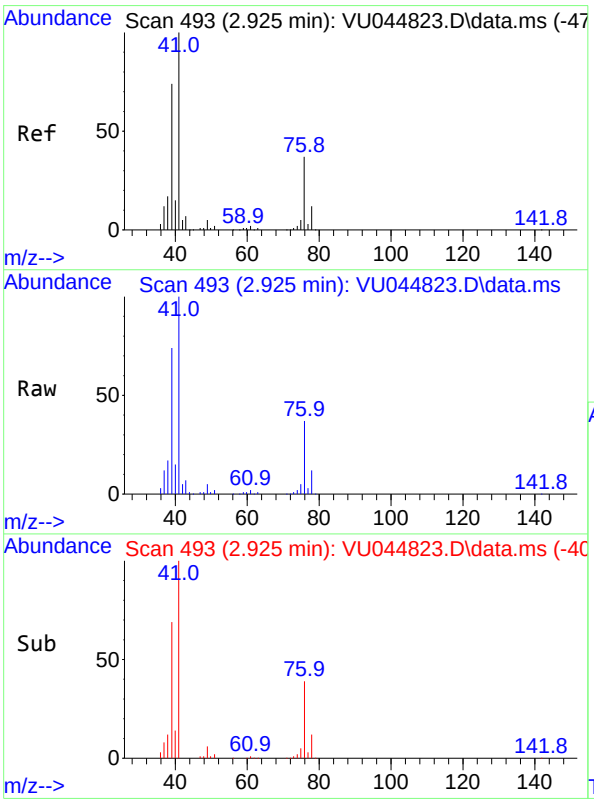


#13
Acrolein
Concen: 148.644 ug/l
RT: 2.491 min Scan# 358
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 56 Resp: 54457

Ion	Ratio	Lower	Upper
56	100		
55	71.7	57.4	86.0

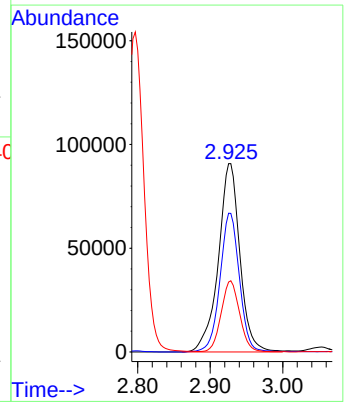




#14
Allyl chloride
Concen: 50.785 ug/l
RT: 2.925 min Scan# 493
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 41 Resp: 187531

Ion	Ratio	Lower	Upper
41	100		
39	66.3	53.0	79.6
76	32.1	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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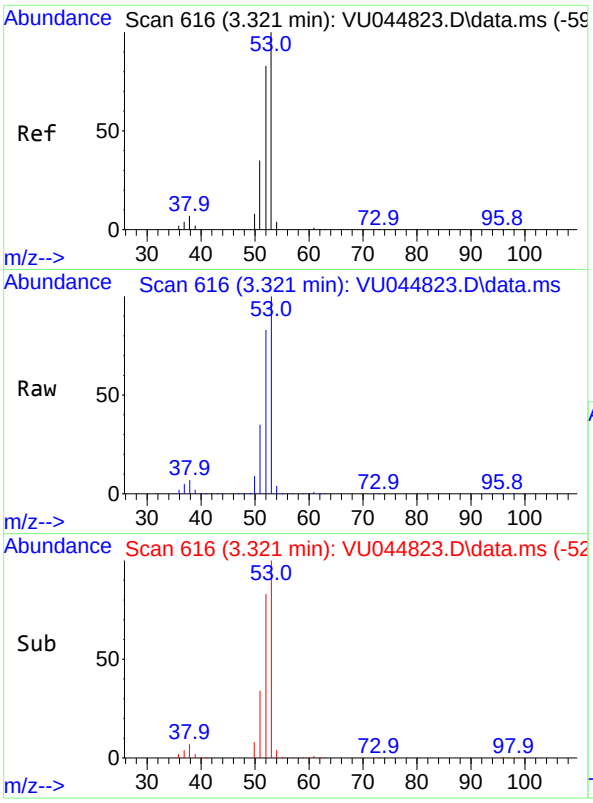
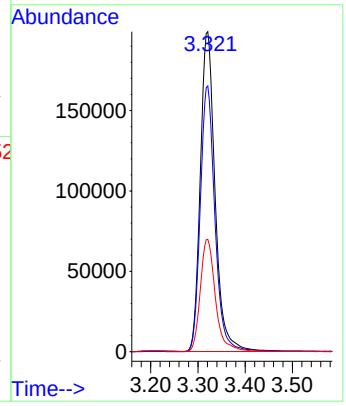
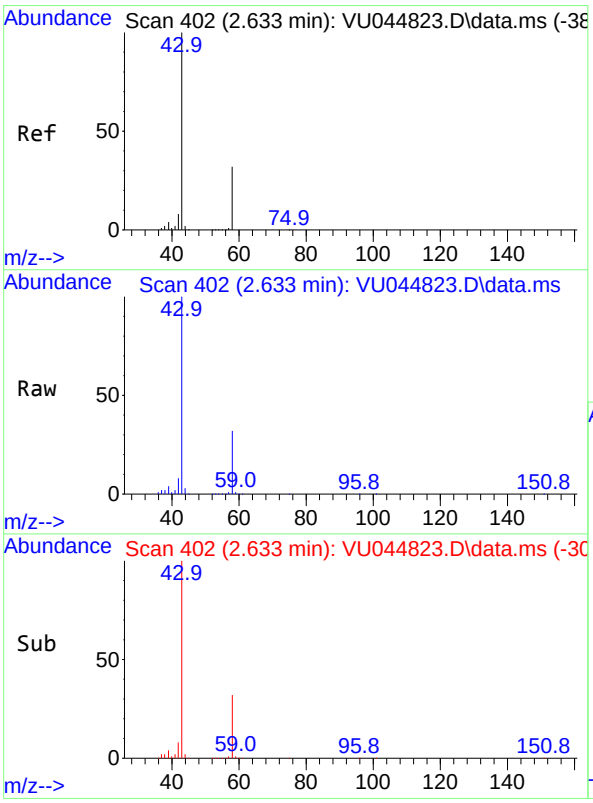


#15
Acrylonitrile
Concen: 295.431 ug/l
RT: 3.321 min Scan# 616
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 53 Resp: 431719

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.0	99.0
51	35.7	28.6	42.8

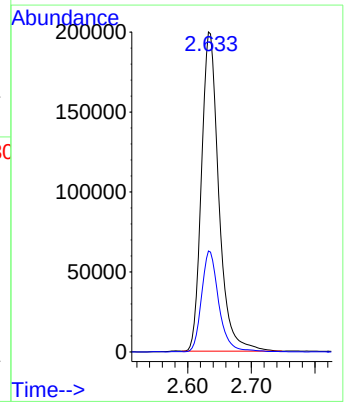




#16
Acetone
Concen: 248.024 ug/l
RT: 2.633 min Scan# 402
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 377099

Ion	Ratio	Lower	Upper
43	100		
58	31.5	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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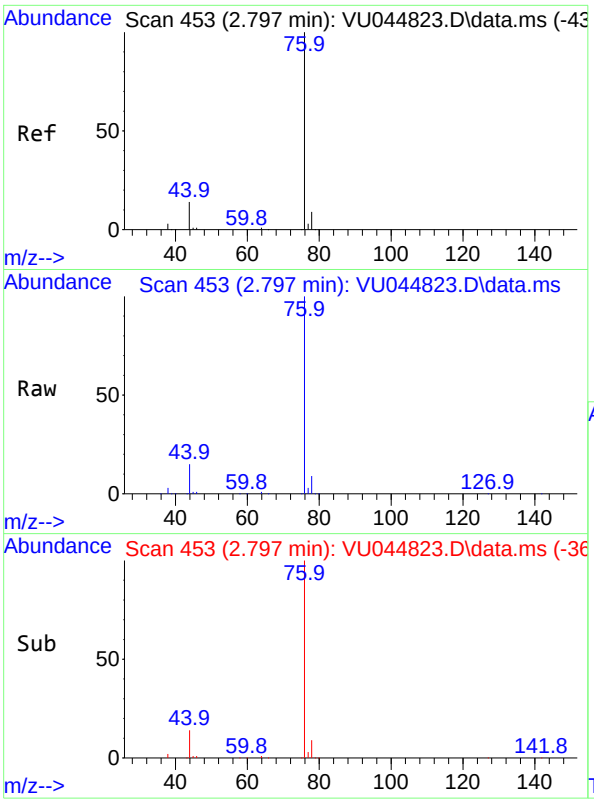
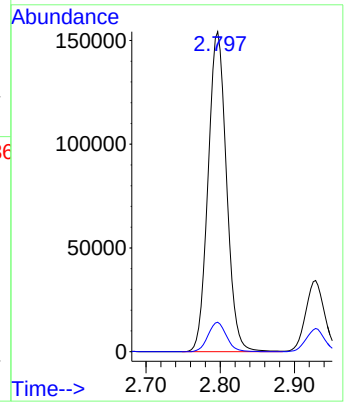
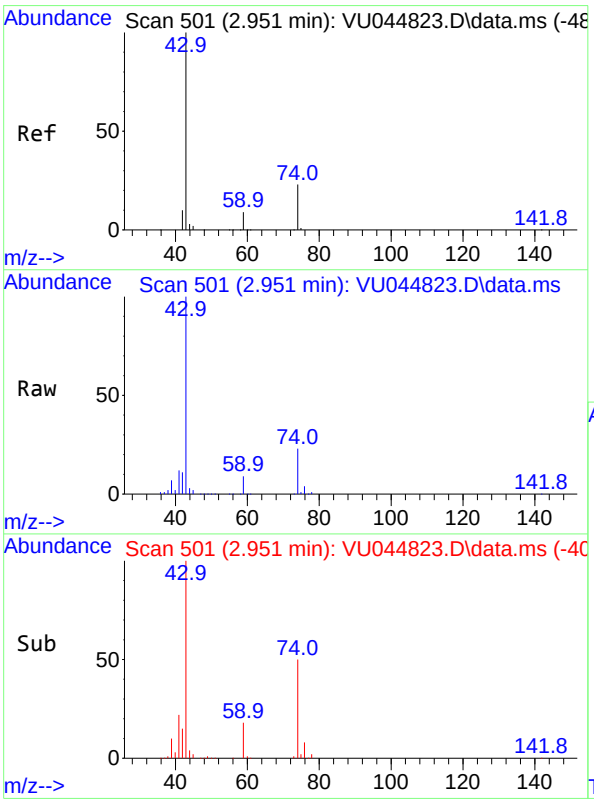


#17
Carbon Disulfide
Concen: 42.842 ug/l
RT: 2.797 min Scan# 453
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 76 Resp: 265444

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

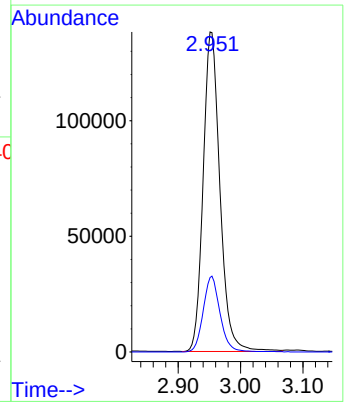




#18
Methyl Acetate
Concen: 72.195 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 258619

Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.0	28.6



Instrument :
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ClientSampleId :
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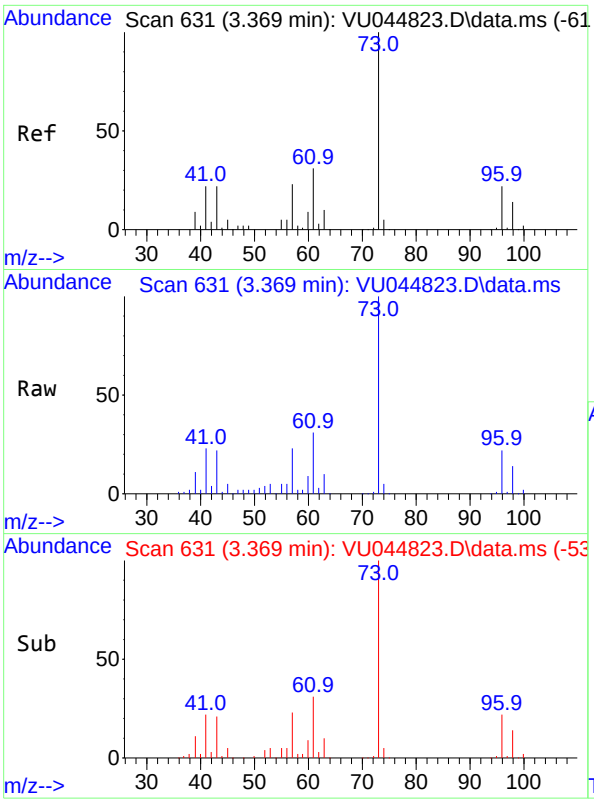
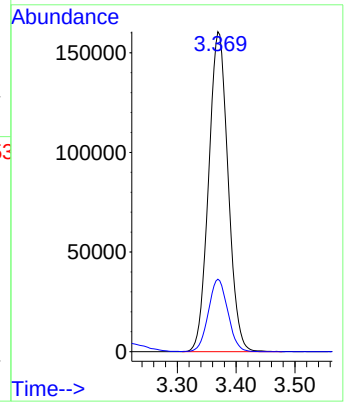
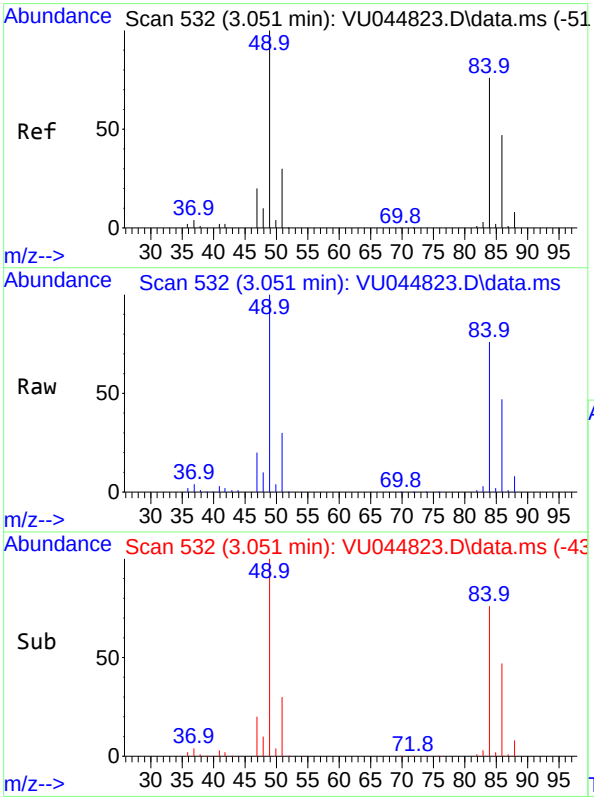


#19
Methyl tert-butyl Ether
Concen: 59.351 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 73 Resp: 368221

Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.2	27.2

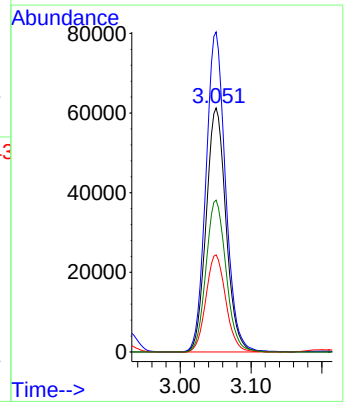




#20
Methylene Chloride
Concen: 46.203 ug/l
RT: 3.051 min Scan# 532
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 84 Resp: 119189

Ion	Ratio	Lower	Upper
84	100		
49	131.1	104.9	157.3
51	39.8	31.8	47.8
86	62.2	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
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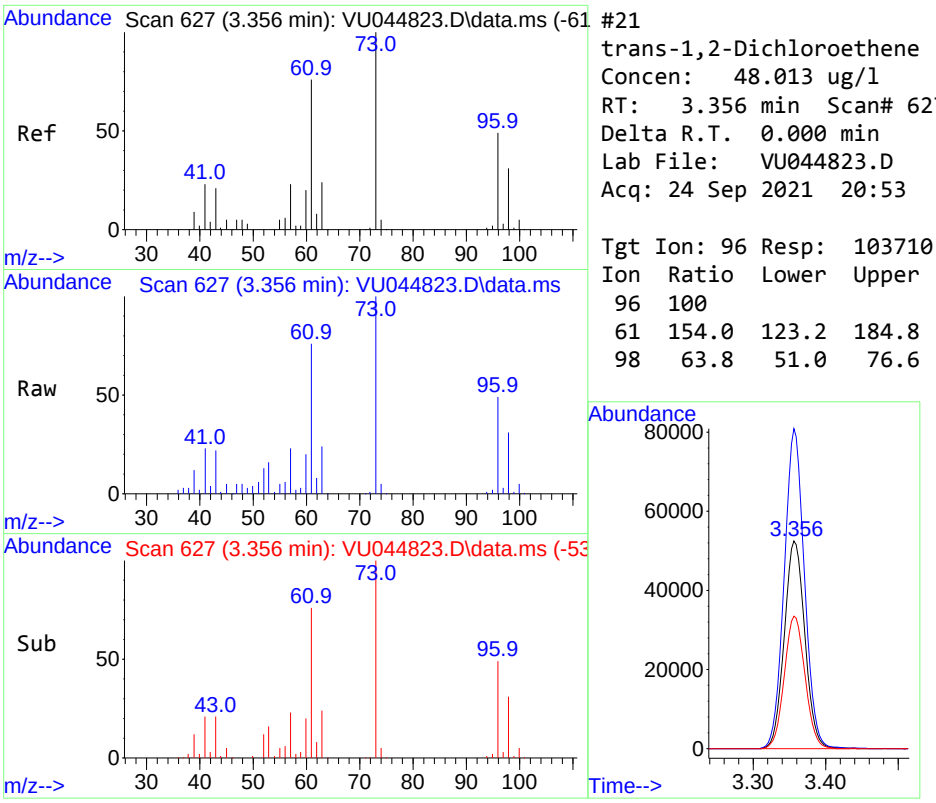
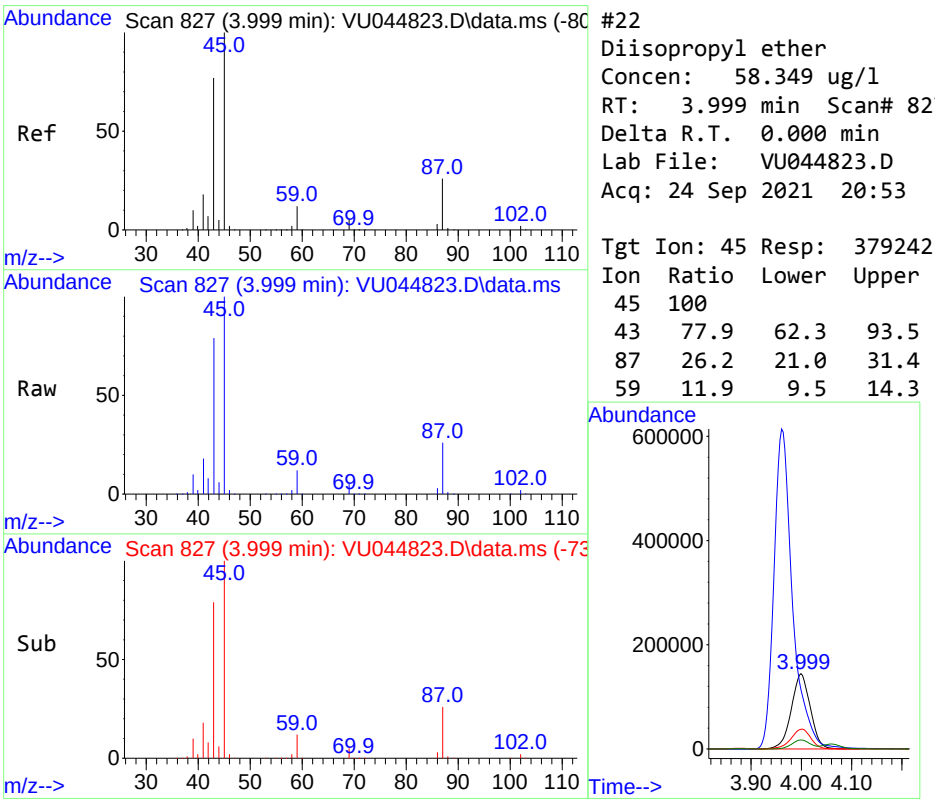


#21
trans-1,2-Dichloroethene
Concen: 48.013 ug/l
RT: 3.356 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 96 Resp: 103710

Ion	Ratio	Lower	Upper
96	100		
61	154.0	123.2	184.8
98	63.8	51.0	76.6



#22
Diisopropyl ether
Concen: 58.349 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 45 Resp: 379242

Ion	Ratio	Lower	Upper
45	100		
43	77.9	62.3	93.5
87	26.2	21.0	31.4
59	11.9	9.5	14.3

Instrument :
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ClientSampleId :
VSTDICCC050

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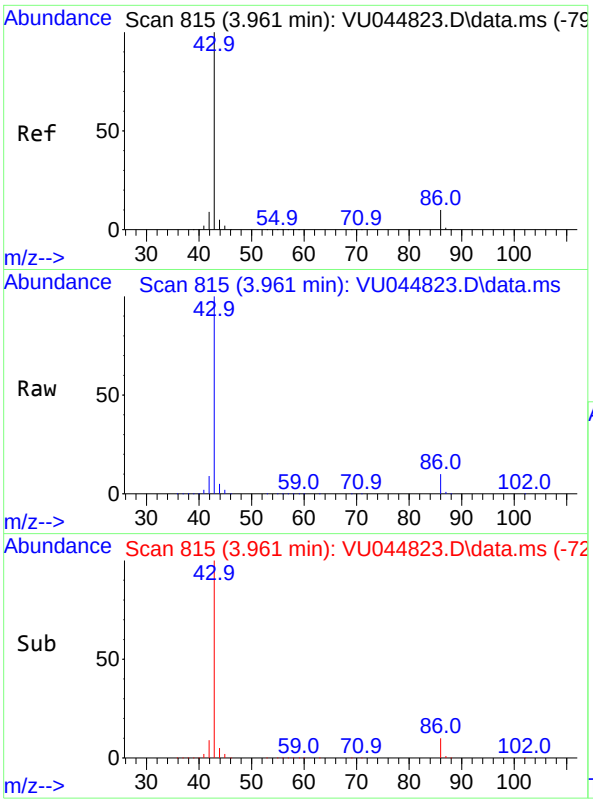
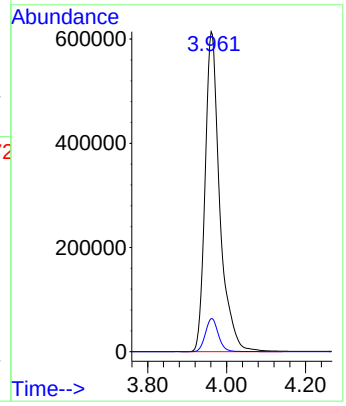
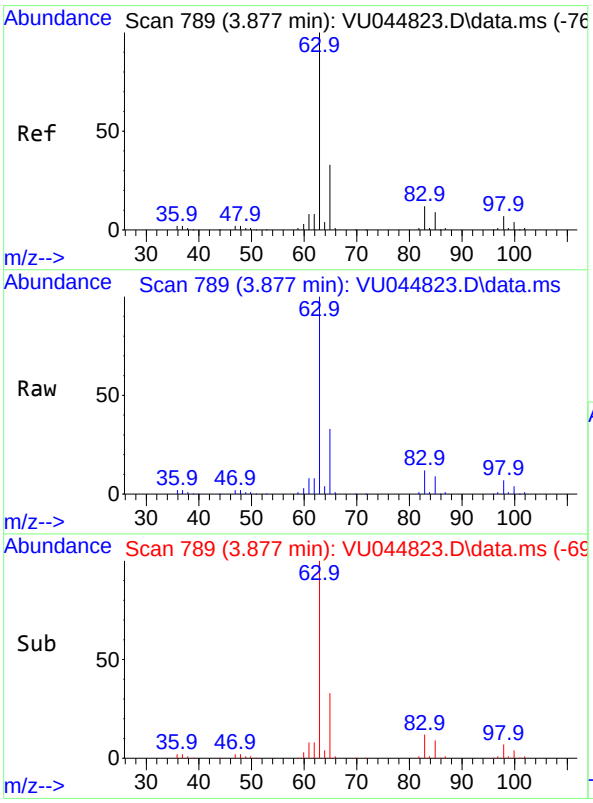


#23
Vinyl Acetate
Concen: 263.485 ug/l
RT: 3.961 min Scan# 815
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 1582962

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.4

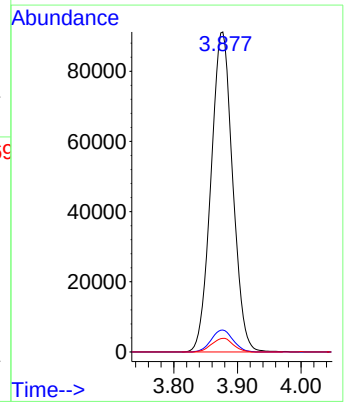




#24
1,1-Dichloroethane
Concen: 50.937 ug/l
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 63 Resp: 215708

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.4
100	4.2	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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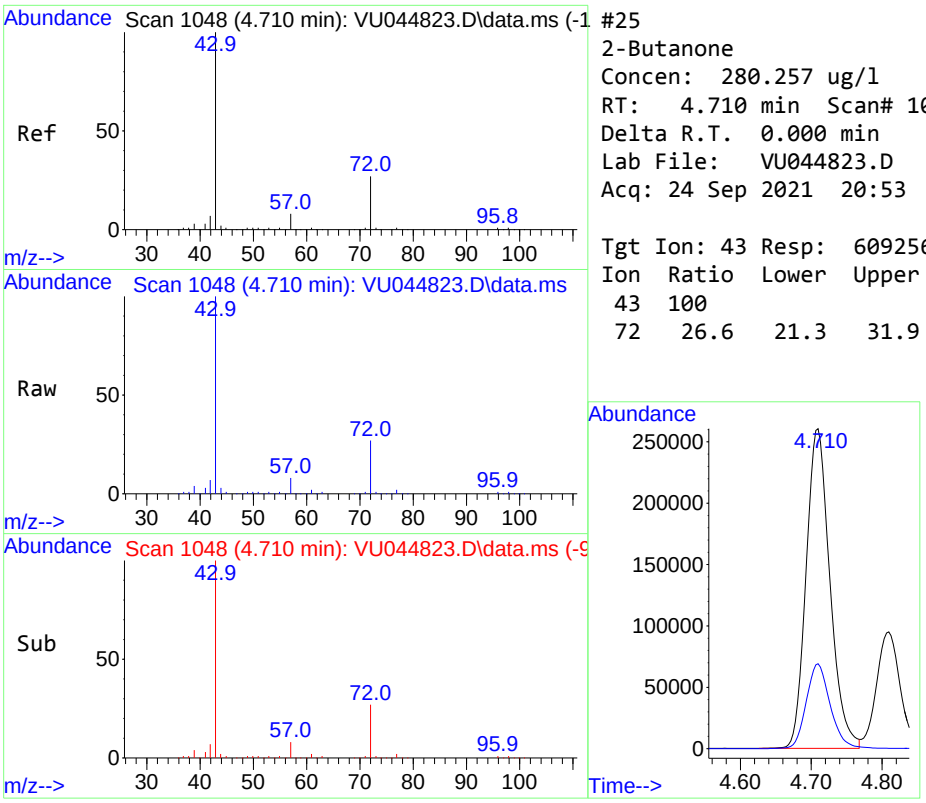
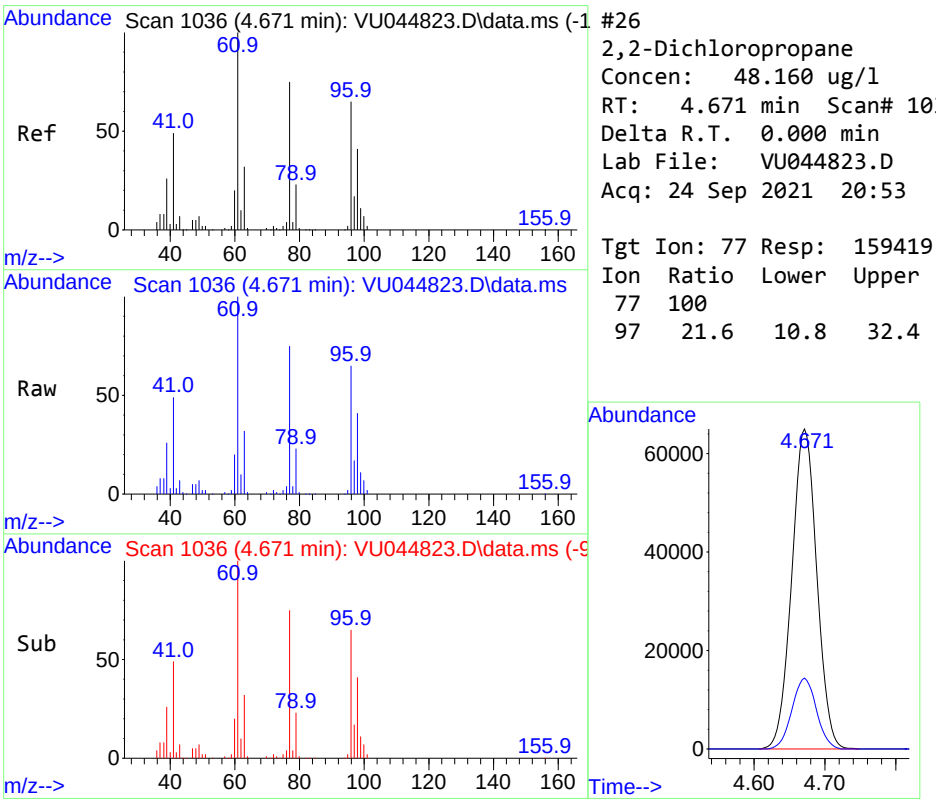


#25
2-Butanone
Concen: 280.257 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 609256

Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.3	31.9



#26
2,2-Dichloropropane
Concen: 48.160 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 77 Resp: 159419

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.8	32.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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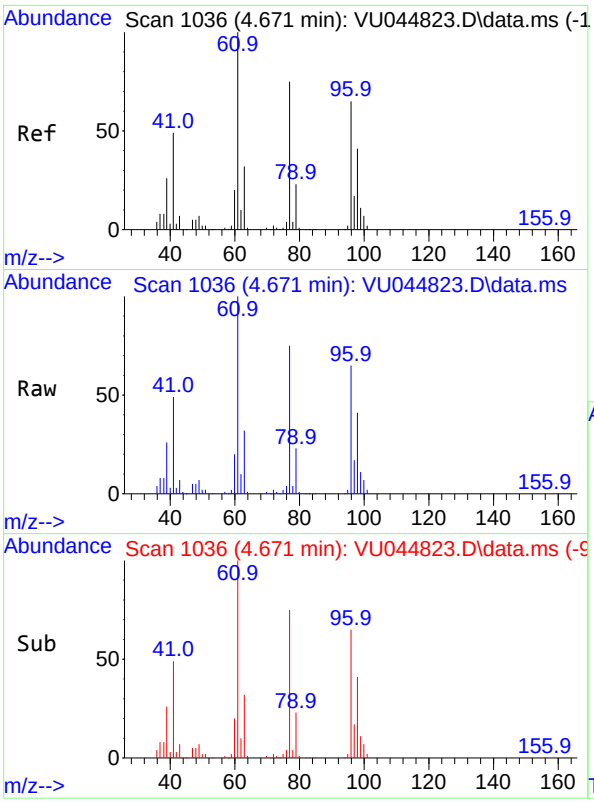
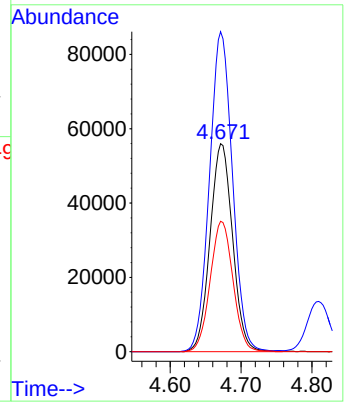
9/27/2021 11:02:41 AM

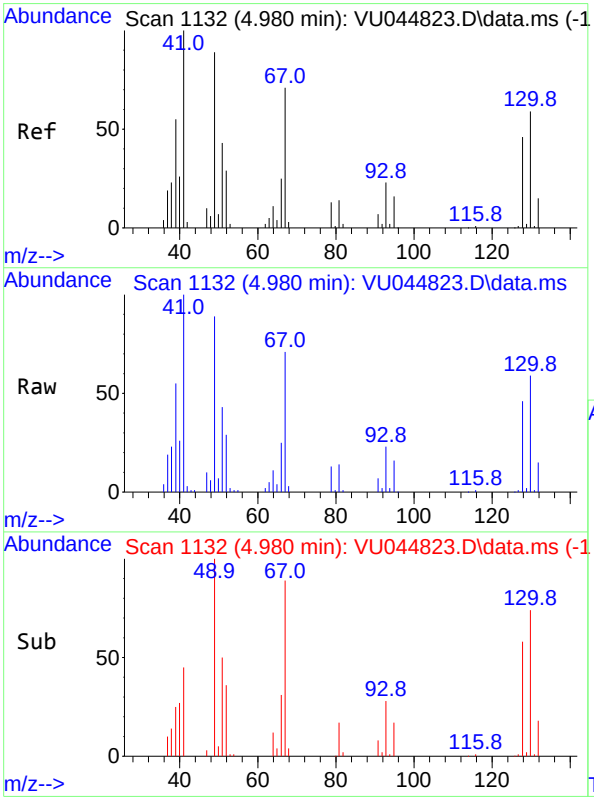


#27
cis-1,2-Dichloroethene
Concen: 50.675 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 96 Resp: 123590

Ion	Ratio	Lower	Upper
96	100		
61	156.7	0.0	313.4
98	63.5	0.0	127.0

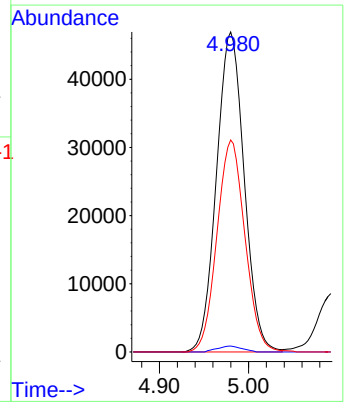




#28
Bromochloromethane
Concen: 50.436 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 49 Resp: 101593

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	66.8	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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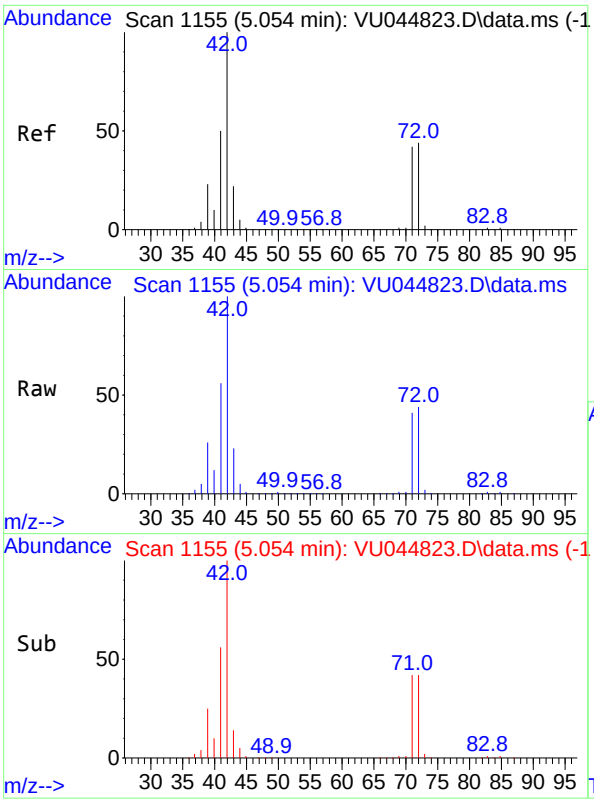
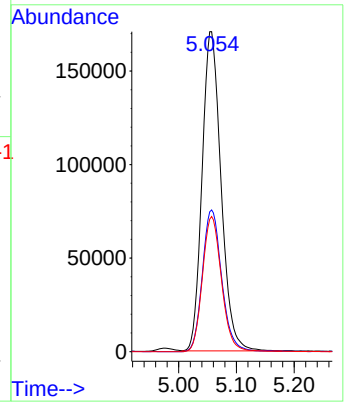
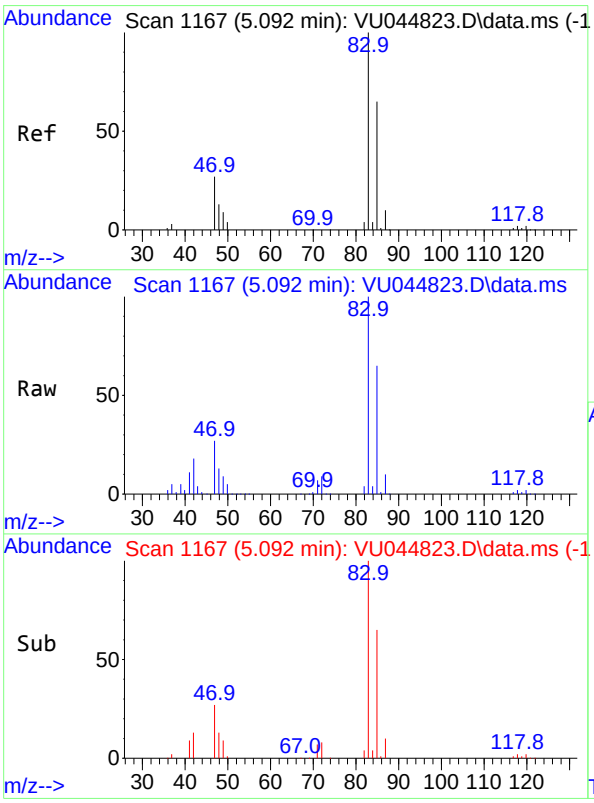


#29
Tetrahydrofuran
Concen: 320.588 ug/l
RT: 5.054 min Scan# 1155
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 42 Resp: 388715

Ion	Ratio	Lower	Upper
42	100		
72	45.3	36.2	54.4
71	42.6	34.1	51.1

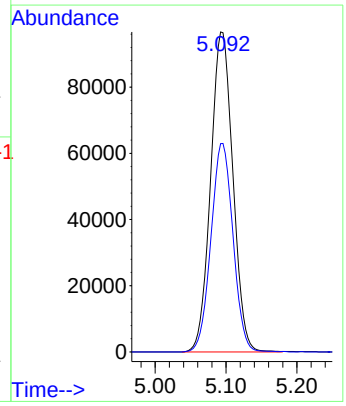




#30
Chloroform
Concen: 50.864 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 83 Resp: 210377

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1



Instrument :
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ClientSampleId :
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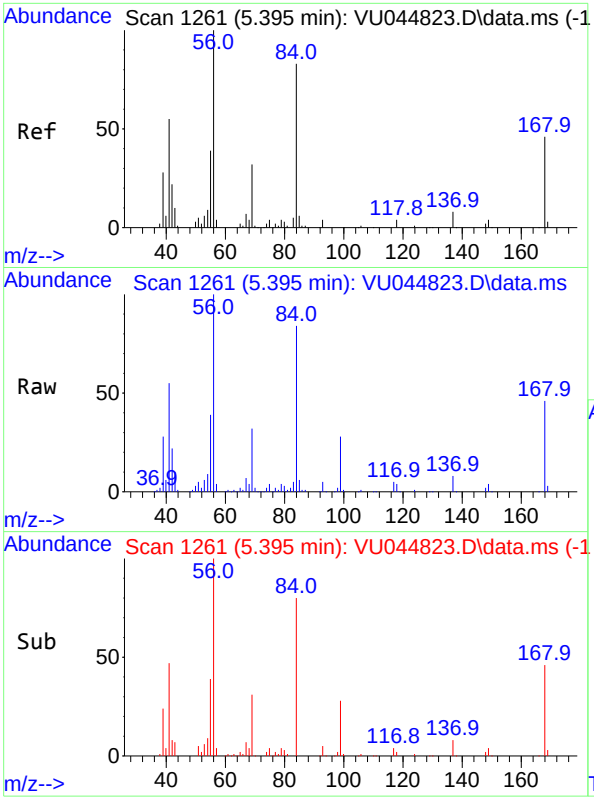
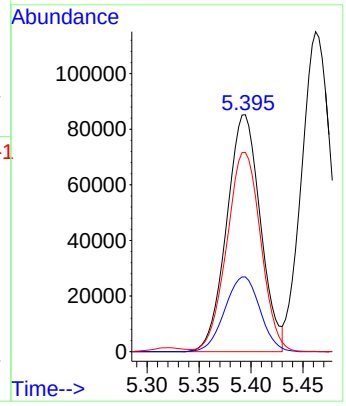
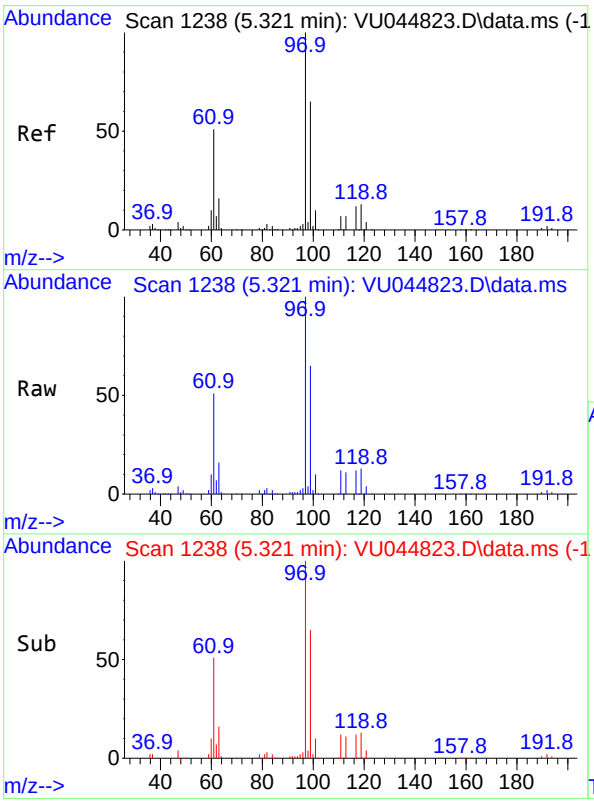


#31
Cyclohexane
Concen: 52.473 ug/l
RT: 5.395 min Scan# 1261
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 56 Resp: 192556

Ion	Ratio	Lower	Upper
56	100		
69	31.5	25.2	37.8
84	83.0	66.4	99.6

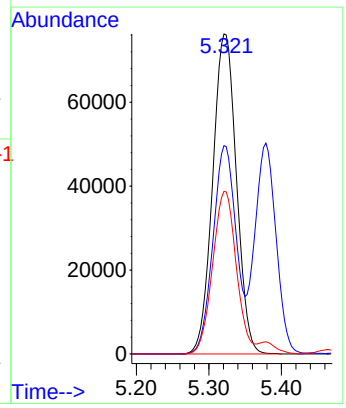




#32
1,1,1-Trichloroethane
Concen: 50.494 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 97 Resp: 173231

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.9	76.3
61	50.9	40.7	61.1



Instrument :
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ClientSampleId :
VSTDICCC050

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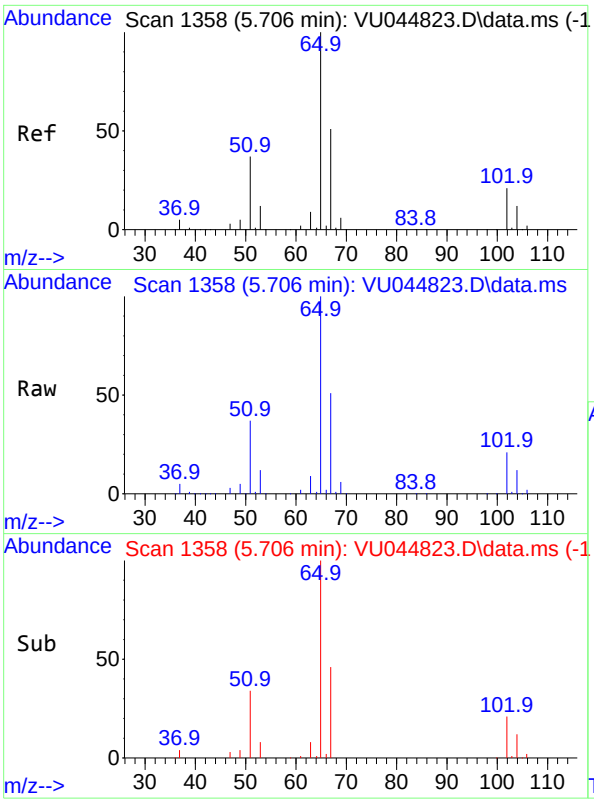
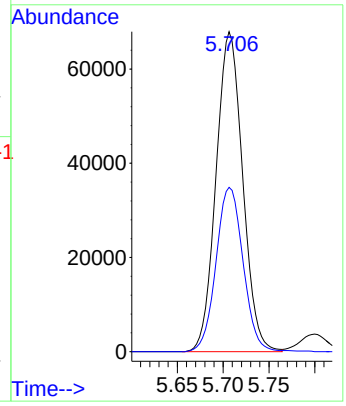
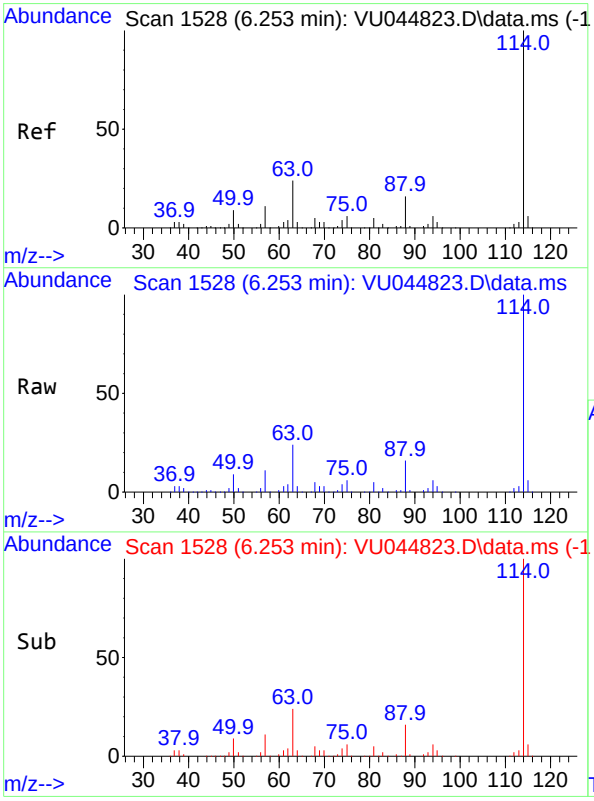


#33
1,2-Dichloroethane-d4
Concen: 53.006 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 65 Resp: 137038

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.8

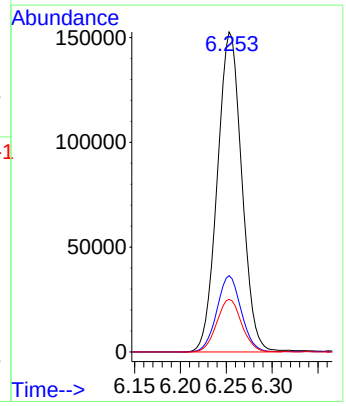




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:114 Resp: 283169

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	47.8
88	16.4	0.0	32.8



Instrument :
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ClientSampleId :
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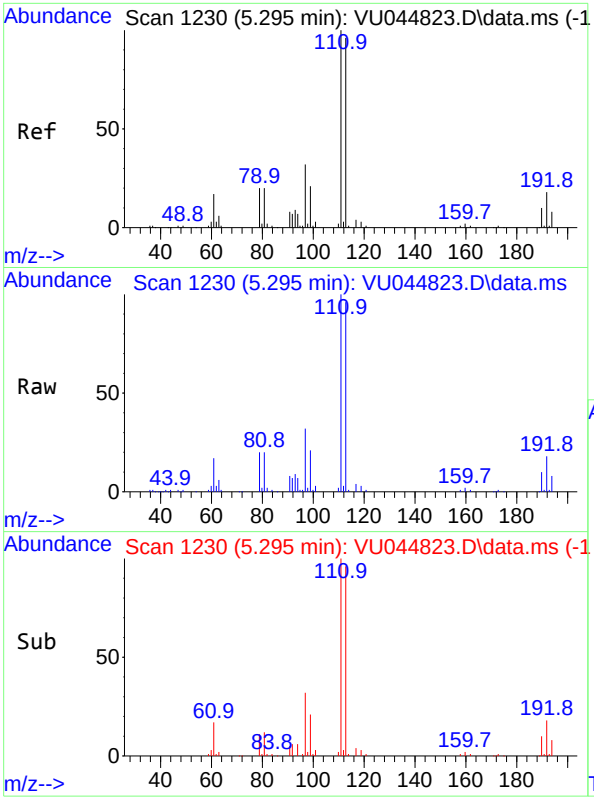
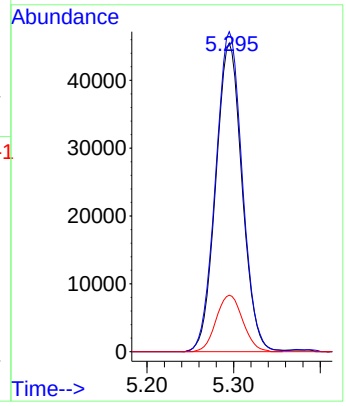
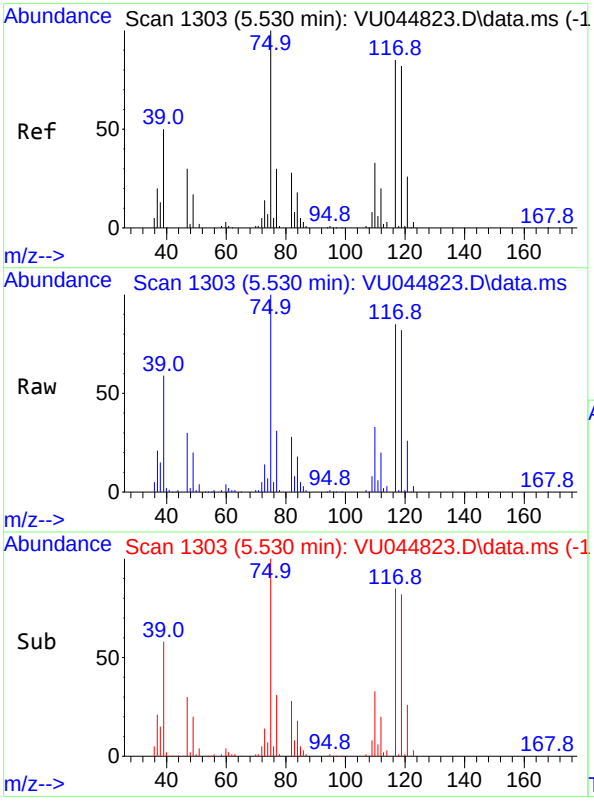


#35
Dibromofluoromethane
Concen: 48.835 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:113 Resp: 95918

Ion	Ratio	Lower	Upper
113	100		
111	105.1	84.1	126.1
192	18.5	14.8	22.2

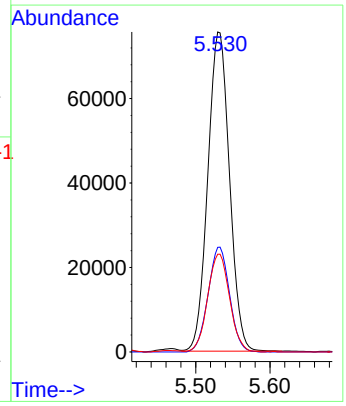




#36
1,1-Dichloropropene
Concen: 48.487 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 75 Resp: 152856

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.3	48.9
77	31.2	25.0	37.4



Instrument :
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ClientSampleId :
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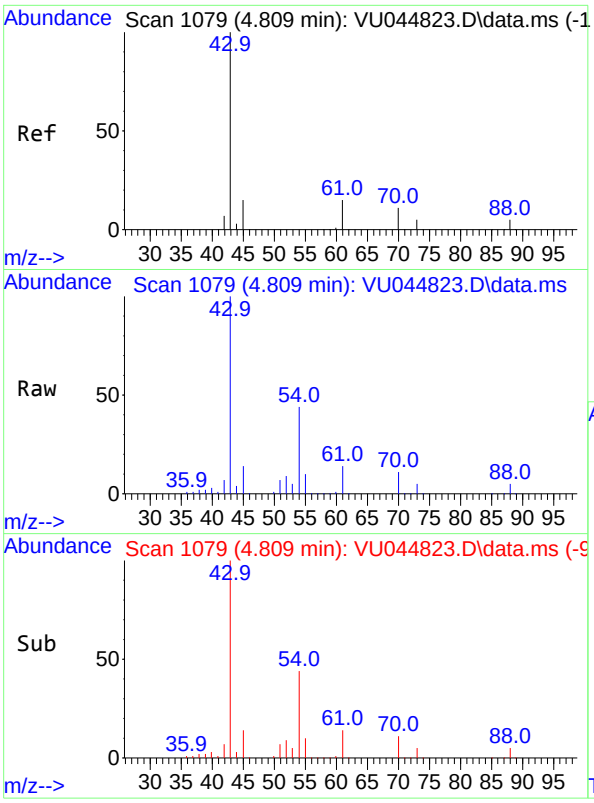
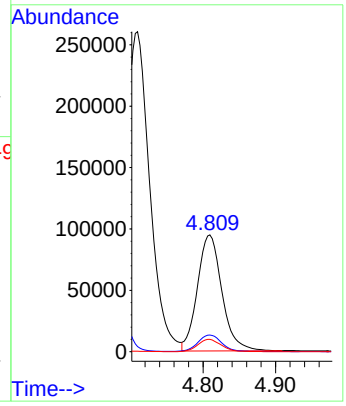
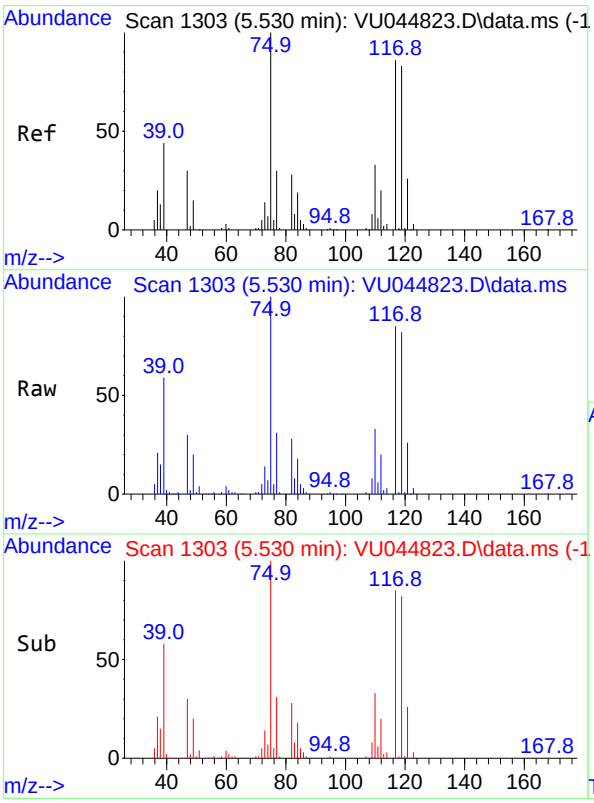


#37
Ethyl Acetate
Concen: 56.806 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 221224

Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.9	16.3
70	10.3	8.2	12.4

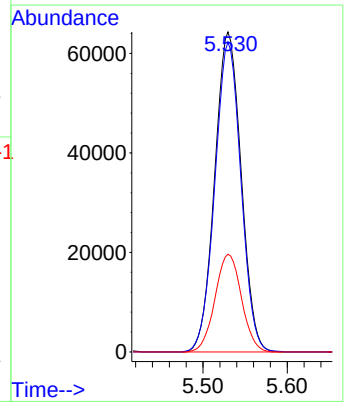




#38
Carbon Tetrachloride
Concen: 49.060 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:117 Resp: 139707

Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.4	116.2
121	30.6	24.5	36.7



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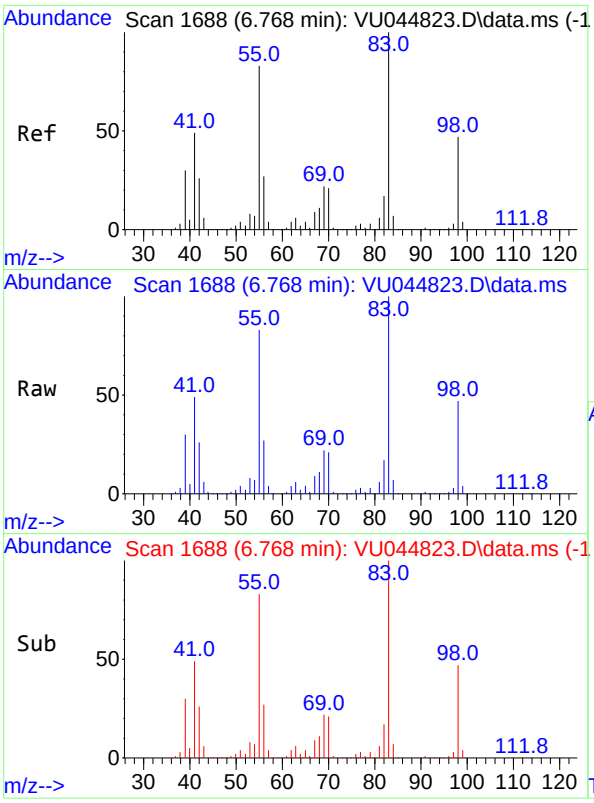
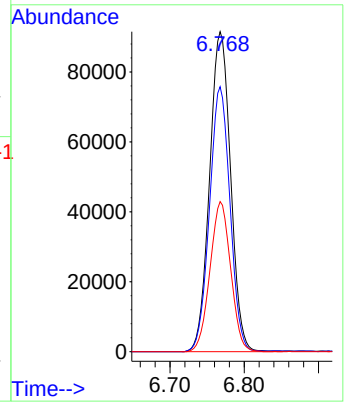
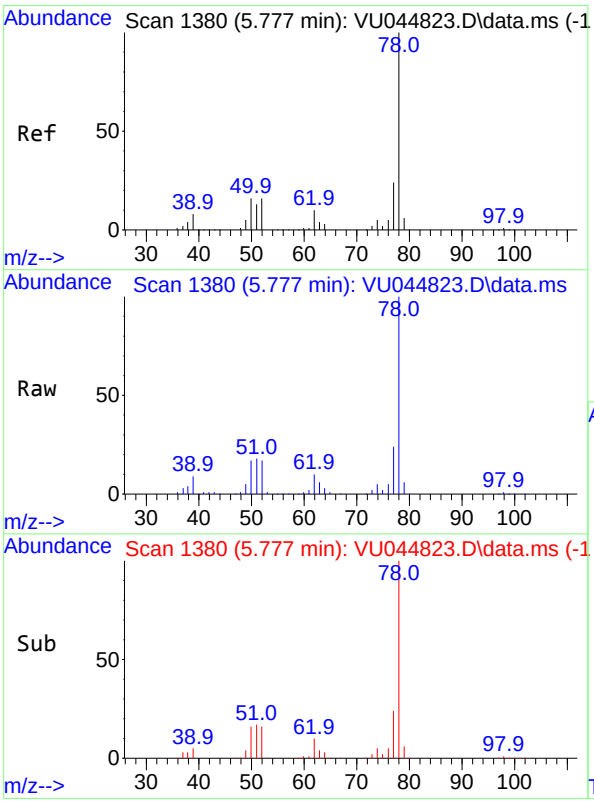


#39
Methylcyclohexane
Concen: 52.616 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 83 Resp: 179440

Ion	Ratio	Lower	Upper
83	100		
55	82.8	66.2	99.4
98	46.9	37.5	56.3

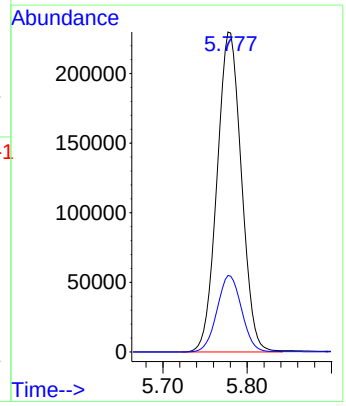




#40
Benzene
Concen: 49.252 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 78 Resp: 460770

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7



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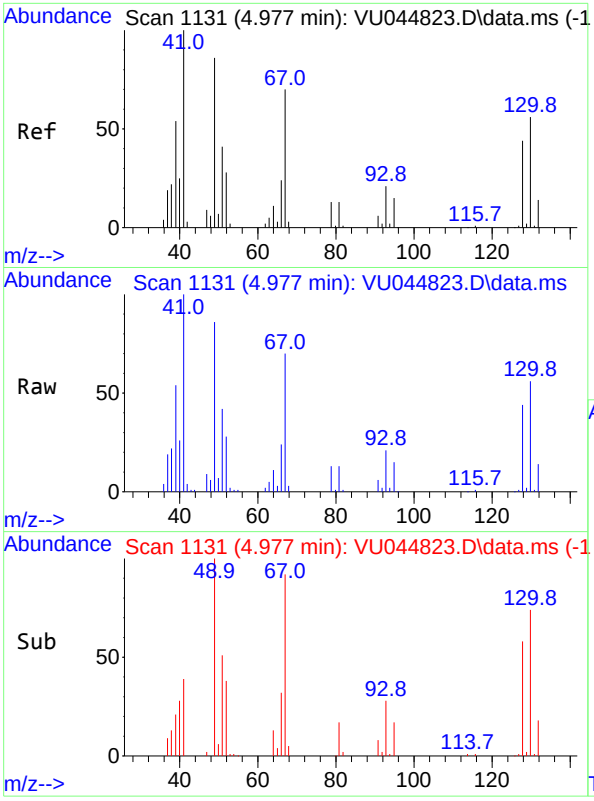
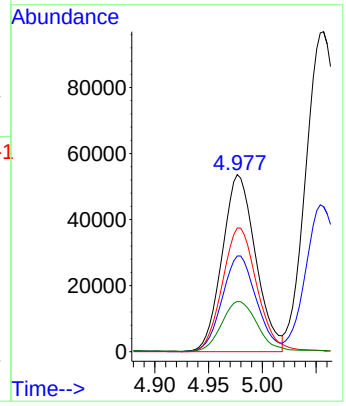
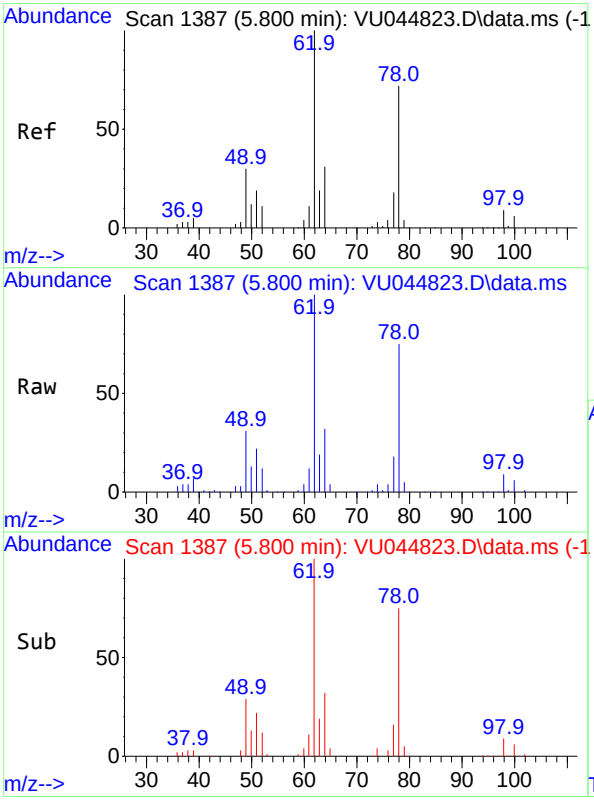


#41
Methacrylonitrile
Concen: 58.550 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 41 Resp: 116342

Ion	Ratio	Lower	Upper
41	100		
39	55.5	44.4	66.6
67	72.6	58.1	87.1
52	29.8	23.8	35.8

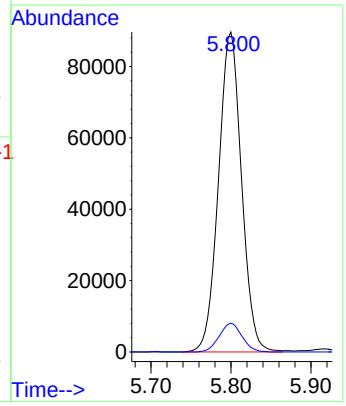




#42
1,2-Dichloroethane
Concen: 53.164 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 62 Resp: 178918

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.8



Instrument :
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ClientSampleId :
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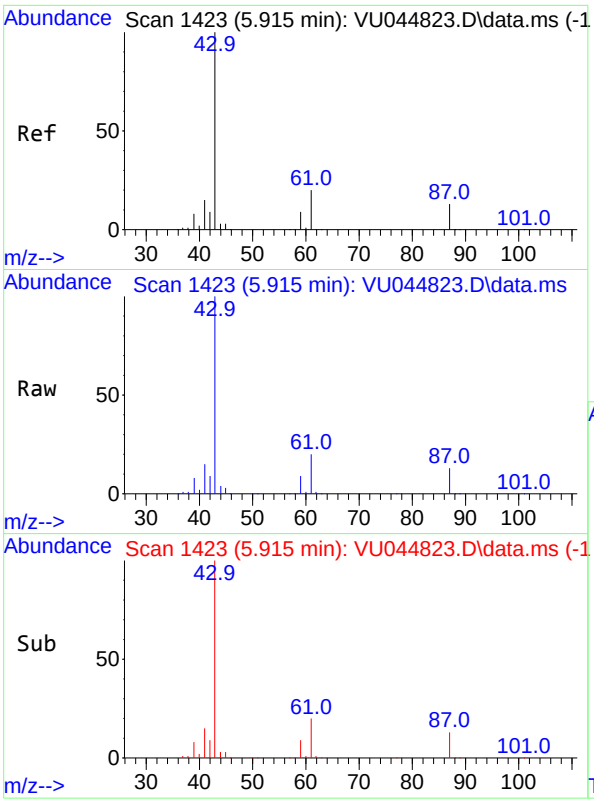
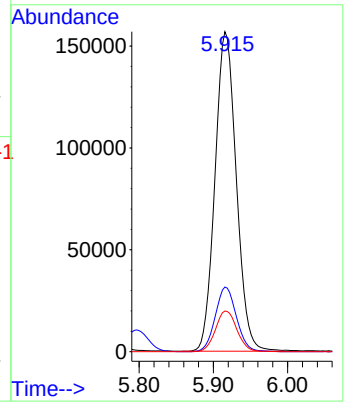
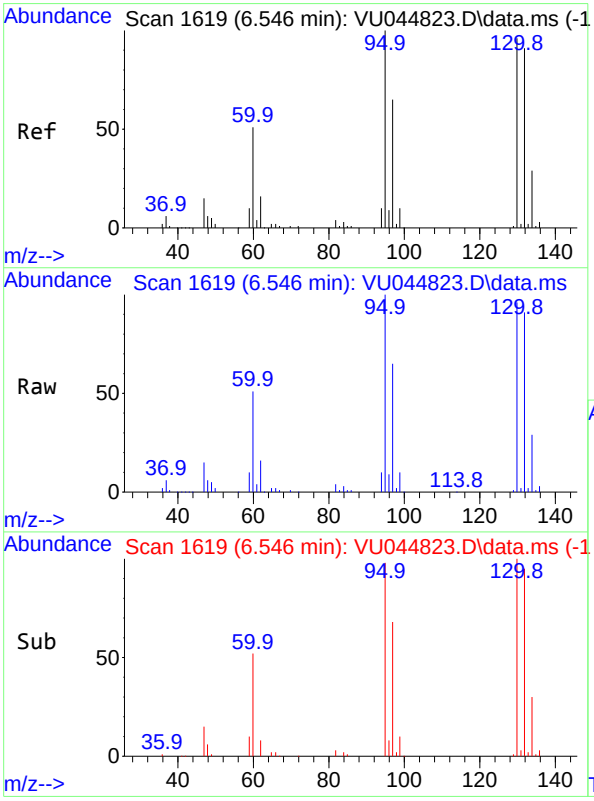


#43
Isopropyl Acetate
Concen: 56.842 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 312805

Ion	Ratio	Lower	Upper
43	100		
61	20.1	16.1	24.1
87	12.9	10.3	15.5

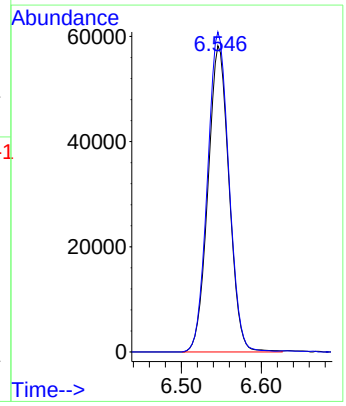




#44
Trichloroethene
Concen: 49.509 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:130 Resp: 106944

Ion	Ratio	Lower	Upper
130	100		
95	104.5	0.0	209.0



Instrument :
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ClientSampleId :
VSTDICCC050

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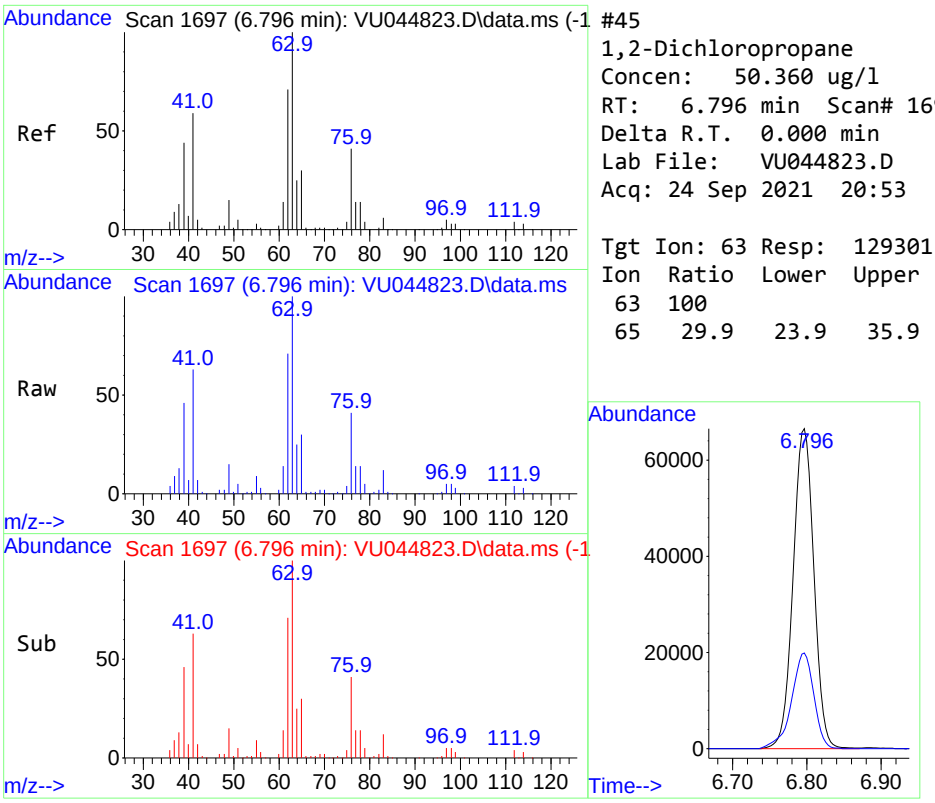
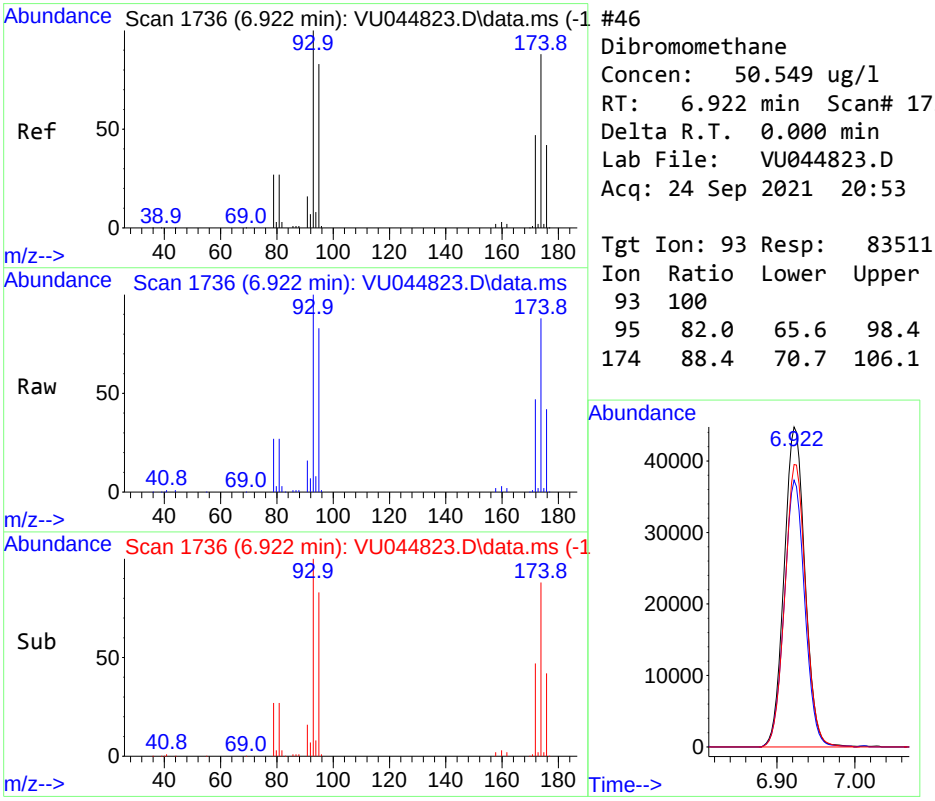


#45
1,2-Dichloropropane
Concen: 50.360 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 63 Resp: 129301

Ion	Ratio	Lower	Upper
63	100		
65	29.9	23.9	35.9



#46
Dibromomethane
Concen: 50.549 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 93 Resp: 83511

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.6	98.4
174	88.4	70.7	106.1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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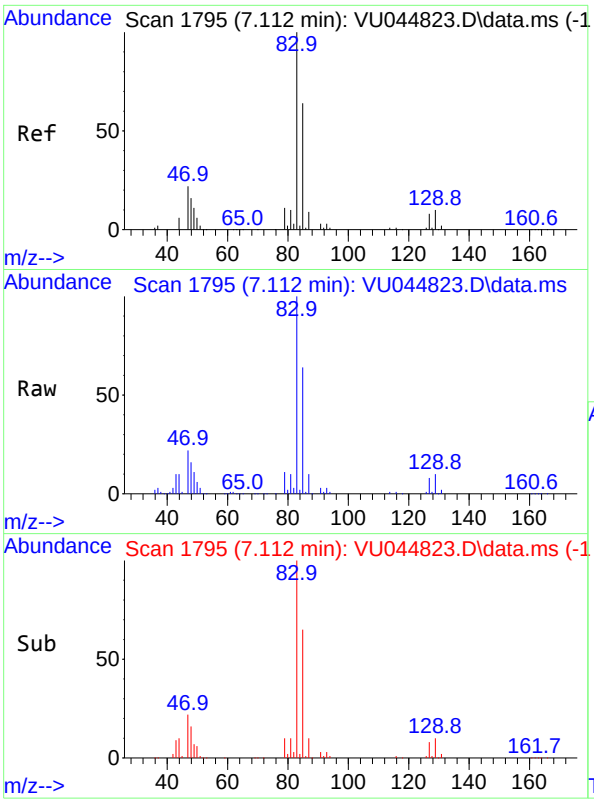
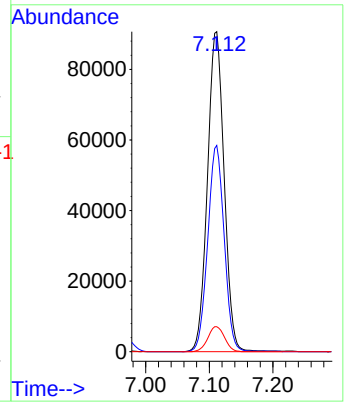
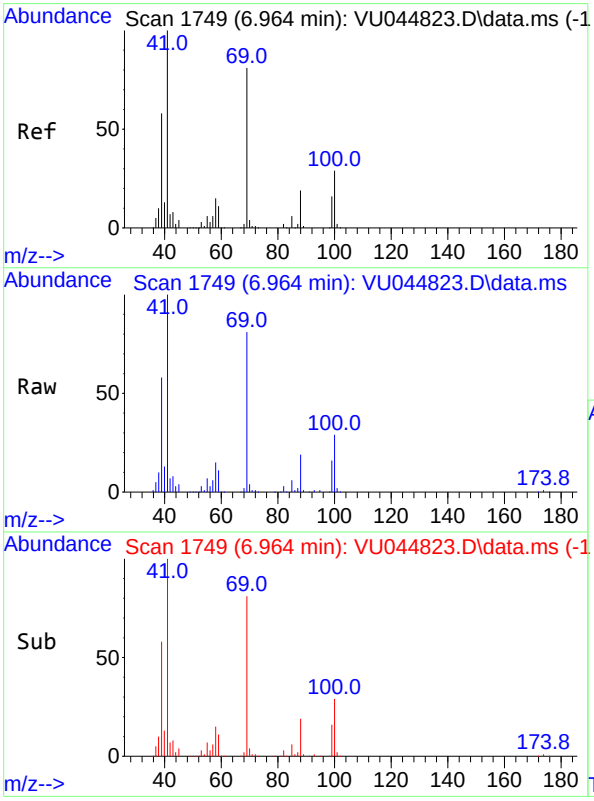


#47
Bromodichloromethane
Concen: 50.925 ug/l
RT: 7.112 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 83 Resp: 165315

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.6	77.4
127	7.8	6.2	9.4

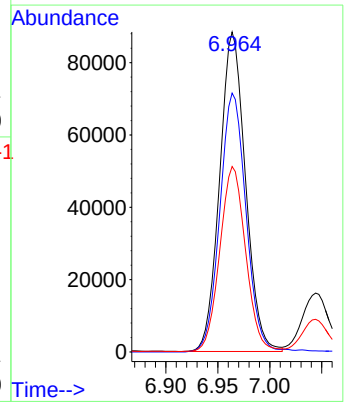




#48
Methyl methacrylate
Concen: 57.176 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 41 Resp: 152845

Ion	Ratio	Lower	Upper
41	100		
69	82.0	65.6	98.4
39	57.8	46.2	69.4



Instrument :
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ClientSampleId :
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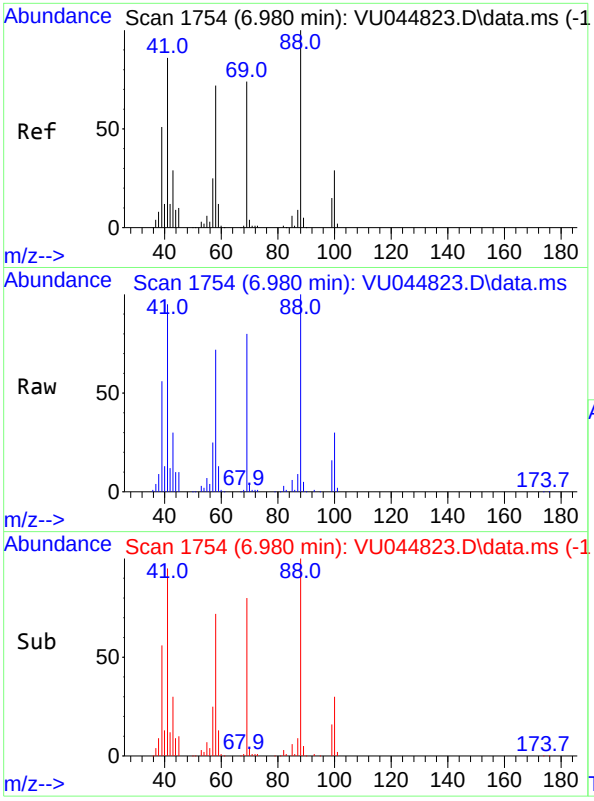
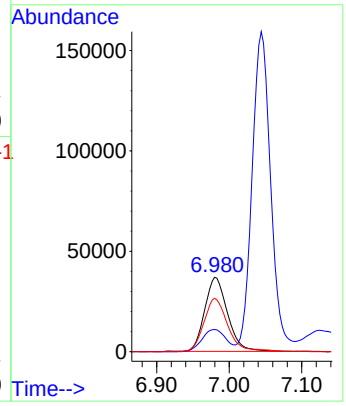
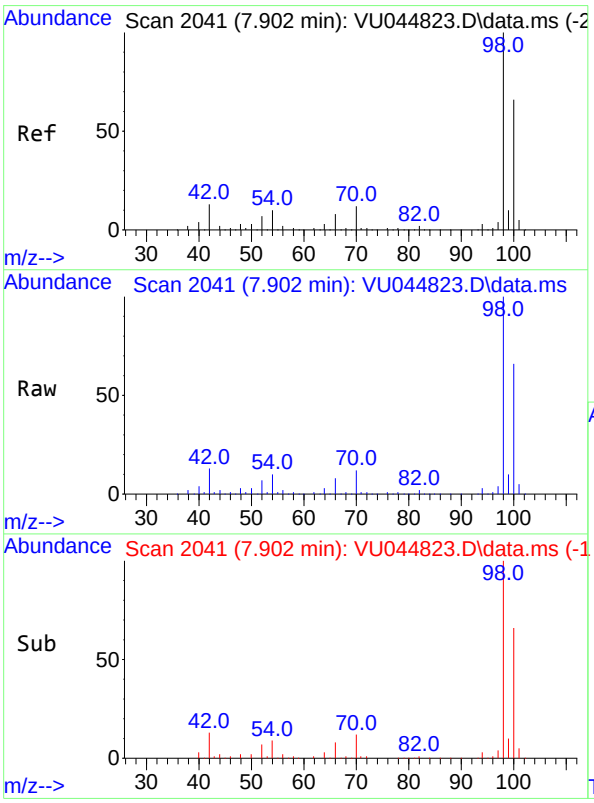


#49
1,4-Dioxane
Concen: 1149.103 ug/l
RT: 6.980 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 88 Resp: 80075

Ion	Ratio	Lower	Upper
88	100		
43	32.2	25.8	38.6
58	76.6	61.3	91.9

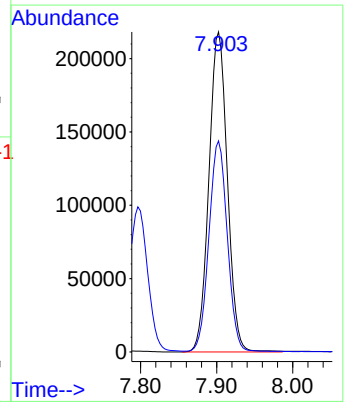




#50
Toluene-d8
Concen: 48.791 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 98 Resp: 367921

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7



Instrument :
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ClientSampleId :
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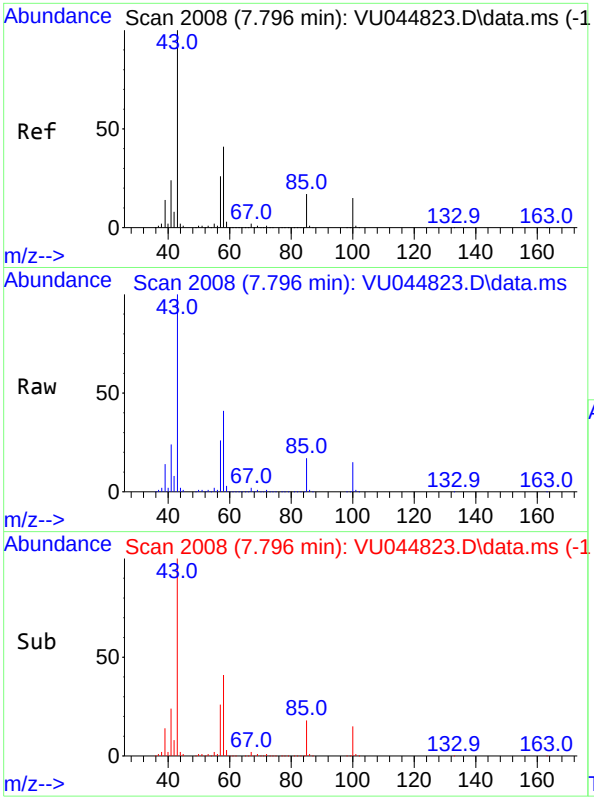
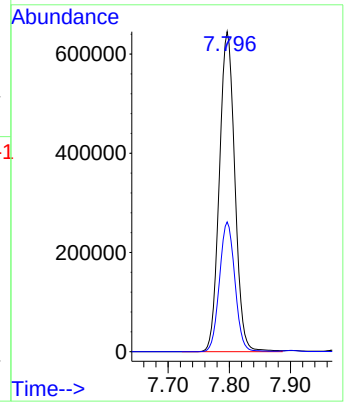
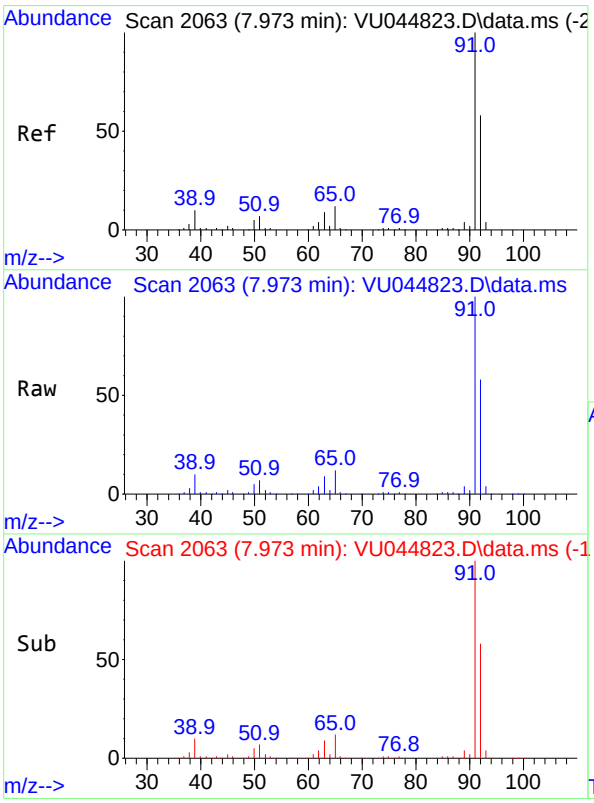


#51
4-Methyl-2-Pentanone
Concen: 286.177 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 1135731

Ion	Ratio	Lower	Upper
43	100		
58	40.5	32.4	48.6

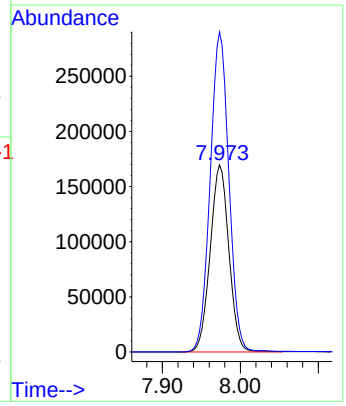




#52
Toluene
Concen: 50.972 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 92 Resp: 282432

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.9	205.3



Instrument :
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ClientSampleId :
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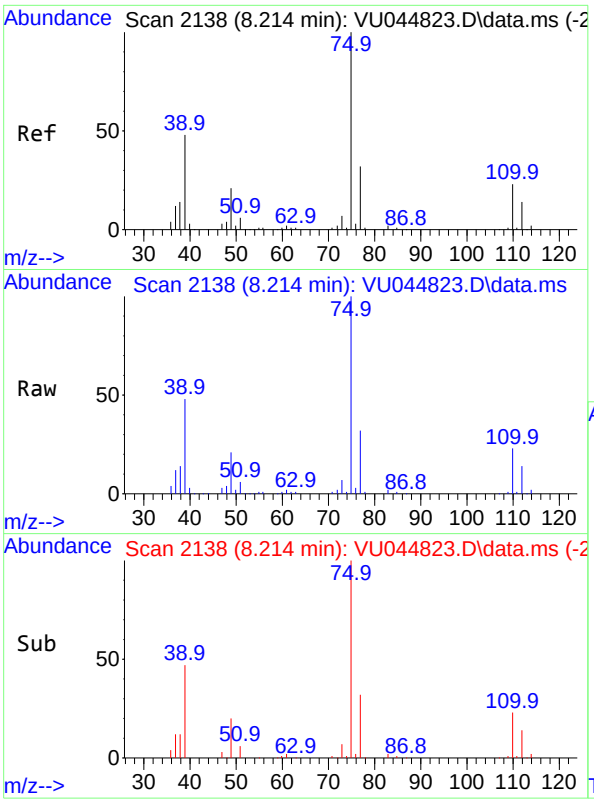
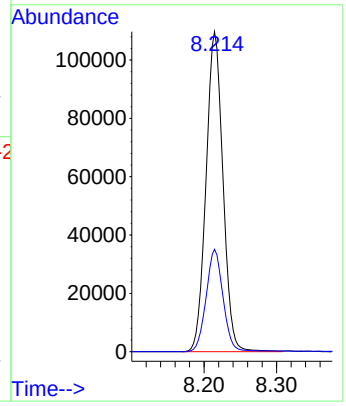
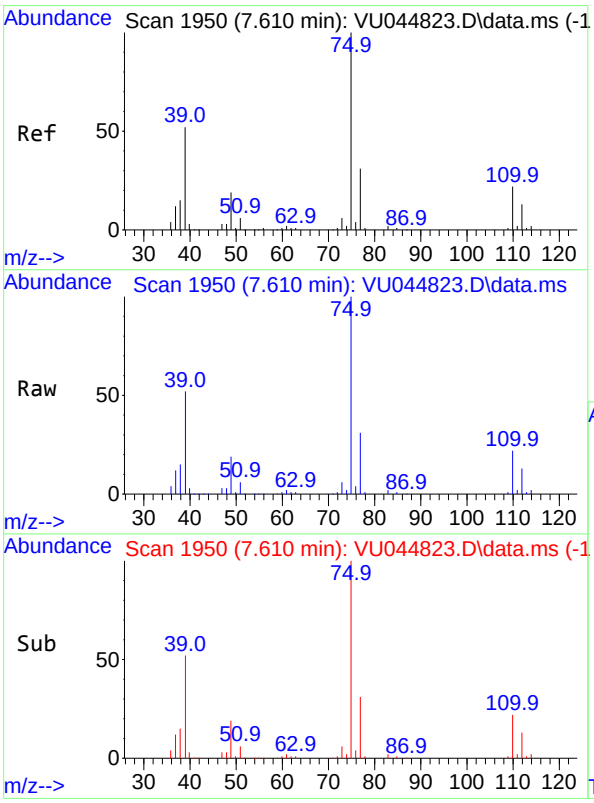


#53
t-1,3-Dichloropropene
Concen: 50.461 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 75 Resp: 177843

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.6	38.4

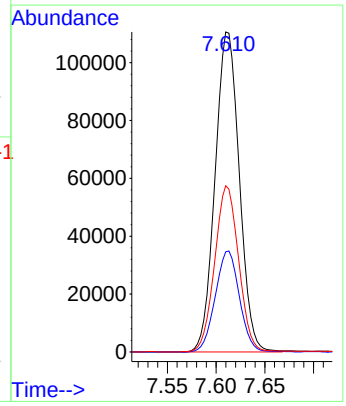




#54
cis-1,3-Dichloropropene
Concen: 50.326 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 75 Resp: 191216

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6
39	51.8	41.4	62.2



Instrument :
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ClientSampleId :
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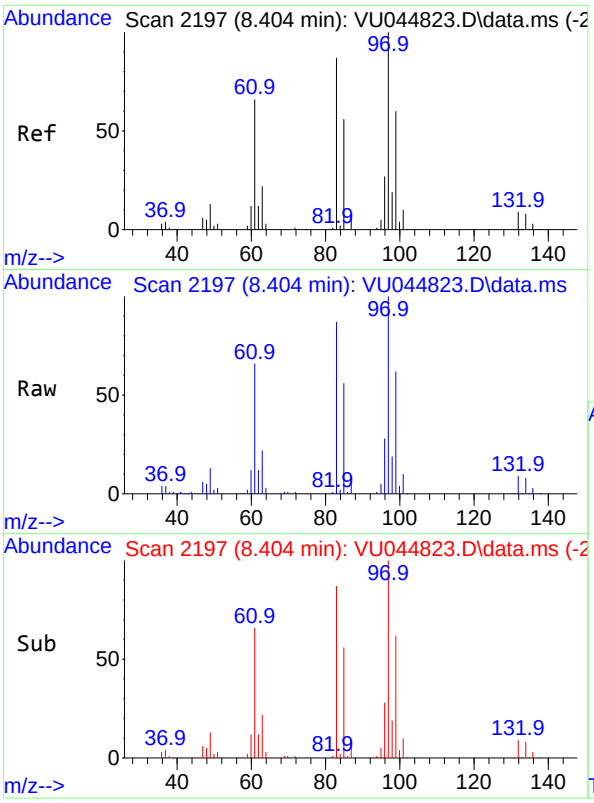
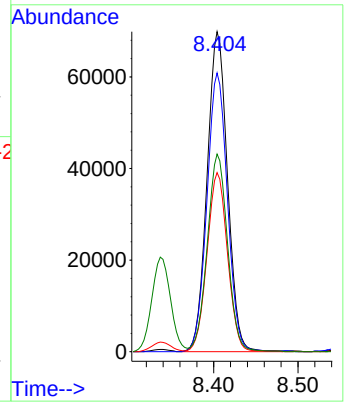
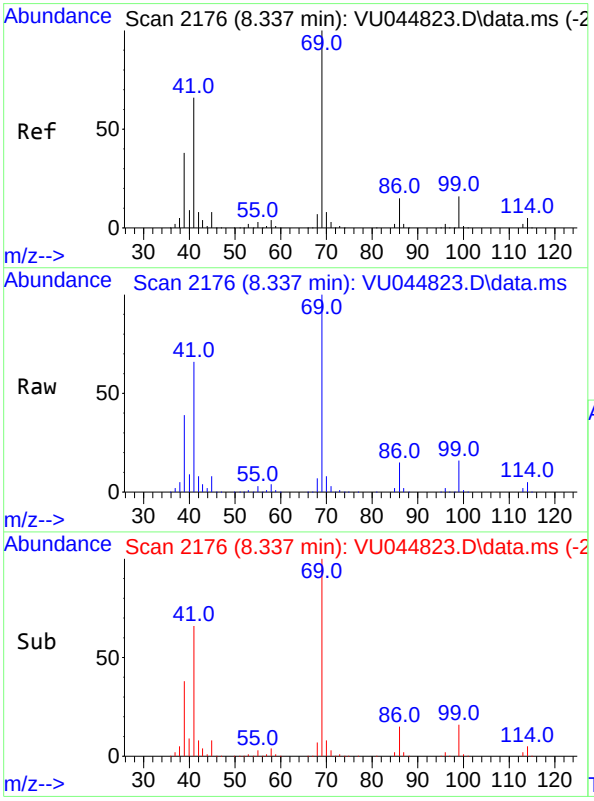


#55
1,1,2-Trichloroethane
Concen: 50.396 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 97 Resp: 117890

Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.7	104.5
85	56.0	44.8	67.2
99	61.6	49.3	73.9

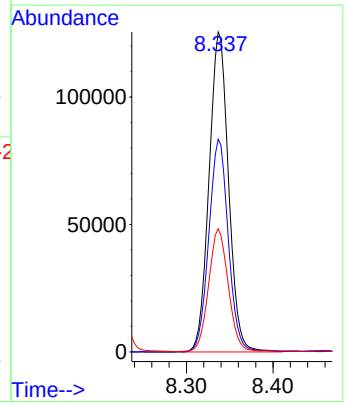




#56
Ethyl methacrylate
Concen: 54.821 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 69 Resp: 196116

Ion	Ratio	Lower	Upper
69	100		
41	66.9	53.5	80.3
39	38.9	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
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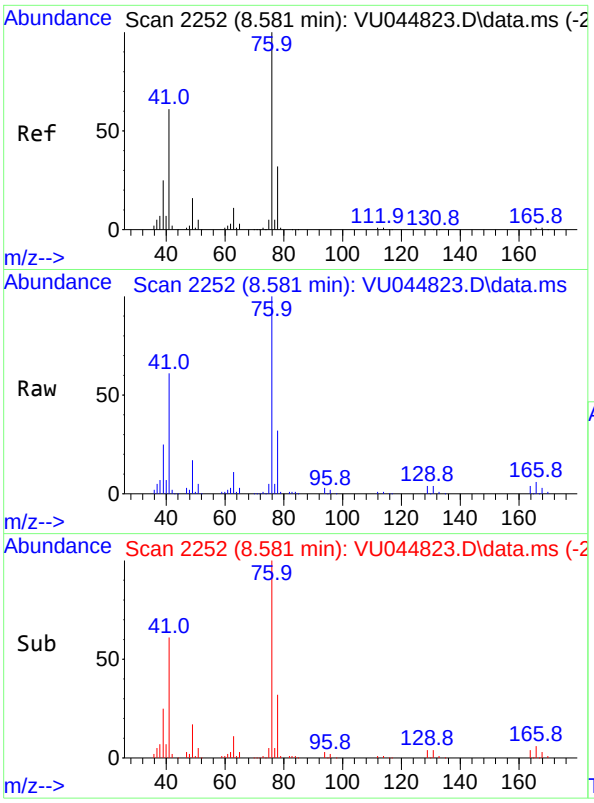
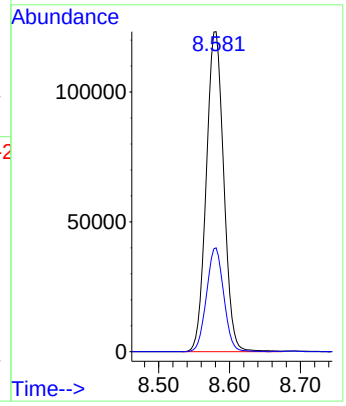
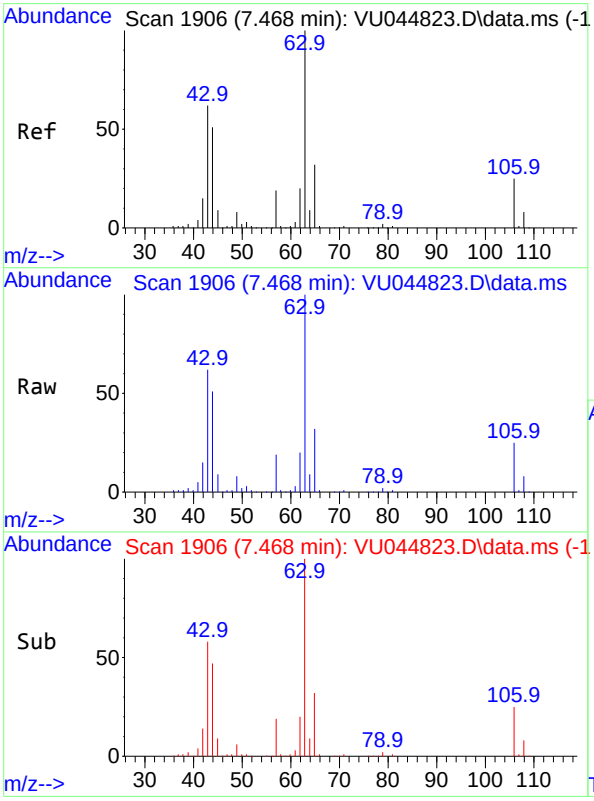


#57
1,3-Dichloropropane
Concen: 50.699 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 76 Resp: 210647

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.7	38.5

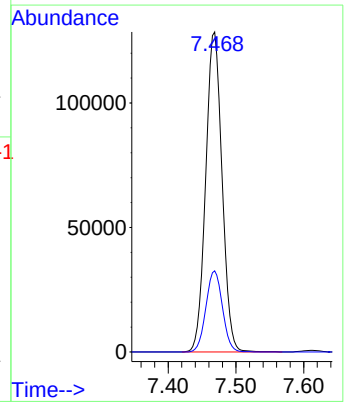




#58
2-Chloroethyl Vinyl ether
Concen: 204.447 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 63 Resp: 215292

Ion	Ratio	Lower	Upper
63	100		
106	25.6	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
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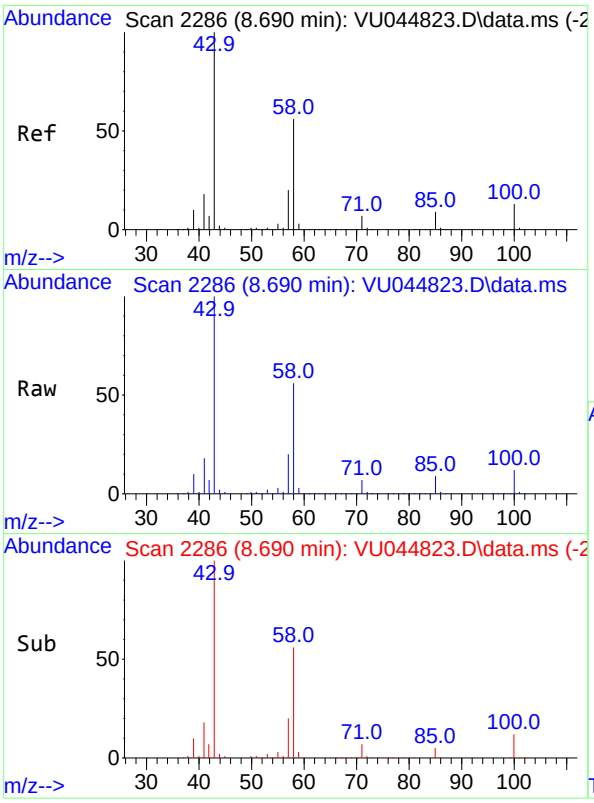
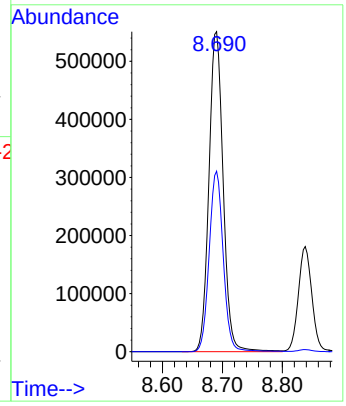
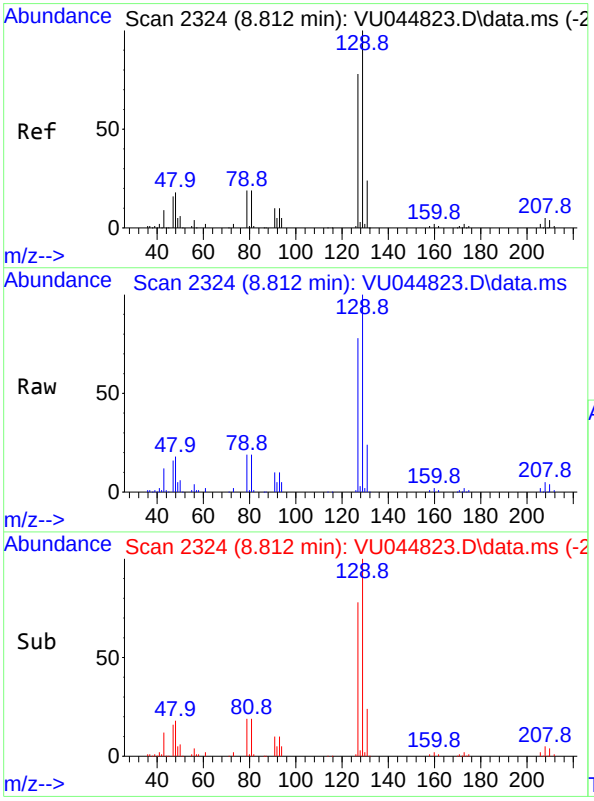


#59
2-Hexanone
Concen: 286.602 ug/l
RT: 8.690 min Scan# 2286
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 908964

Ion	Ratio	Lower	Upper
43	100		
58	56.0	28.0	84.0

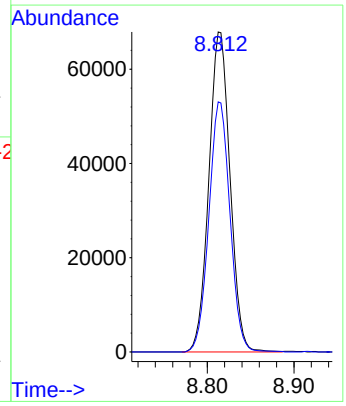




#60
Dibromochloromethane
Concen: 49.815 ug/l
RT: 8.812 min Scan# 2324
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:129 Resp: 115148

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.0	117.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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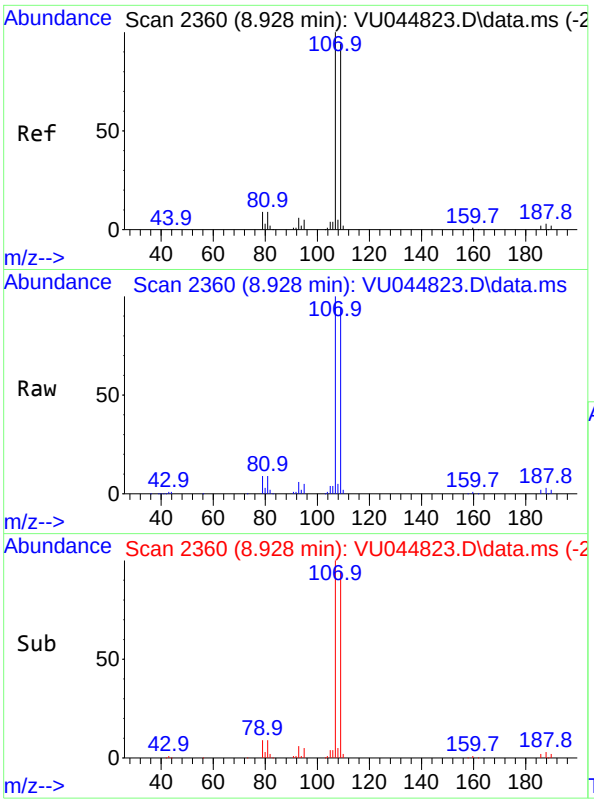
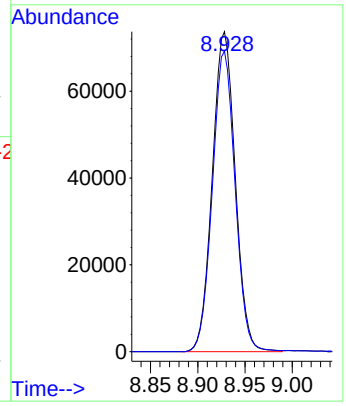
9/27/2021 11:02:41 AM

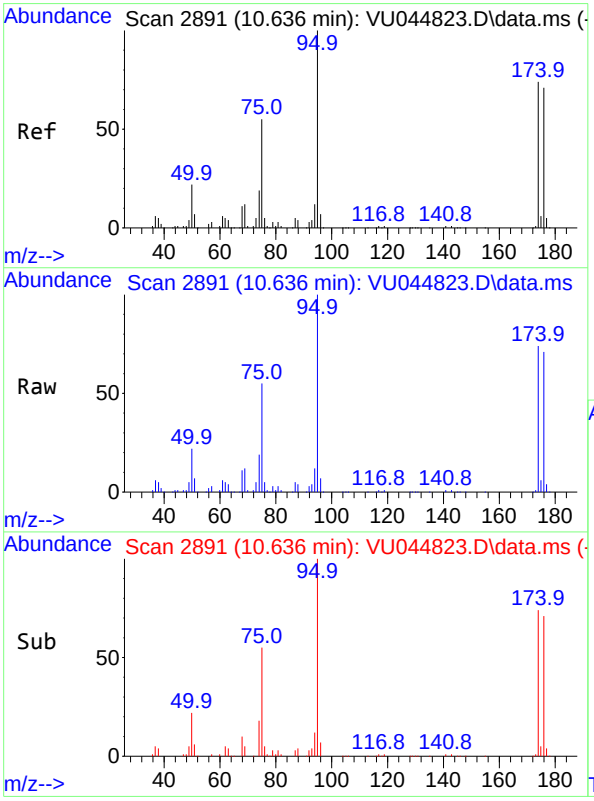


#61
1,2-Dibromoethane
Concen: 50.522 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:107 Resp: 124295

Ion	Ratio	Lower	Upper
107	100		
109	93.5	74.8	112.2

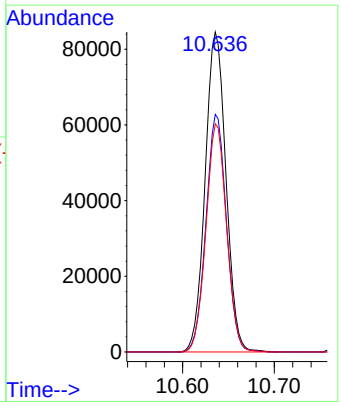




#62
4-Bromofluorobenzene
Concen: 44.787 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 95 Resp: 133029

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	146.6
176	70.6	0.0	141.2



Instrument :
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ClientSampleId :
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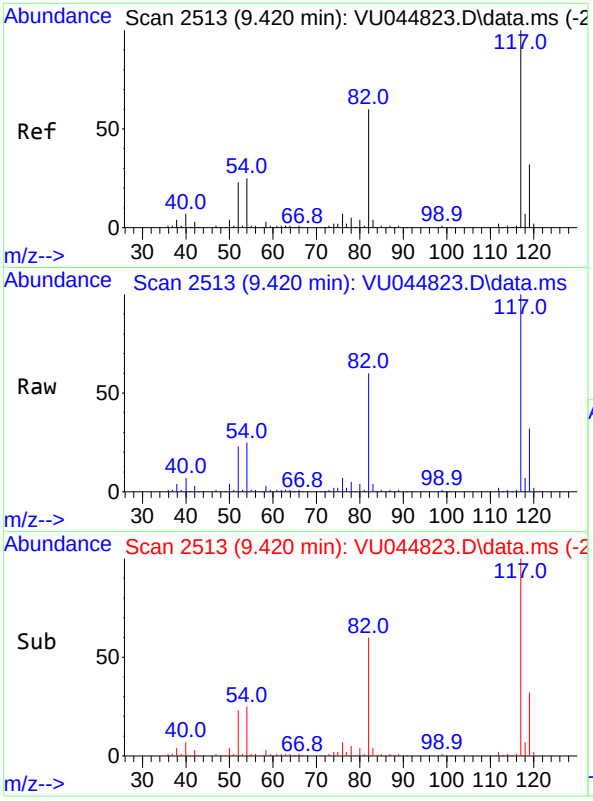
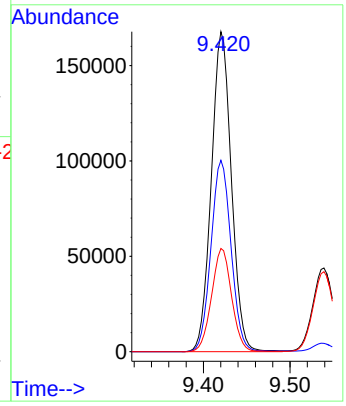
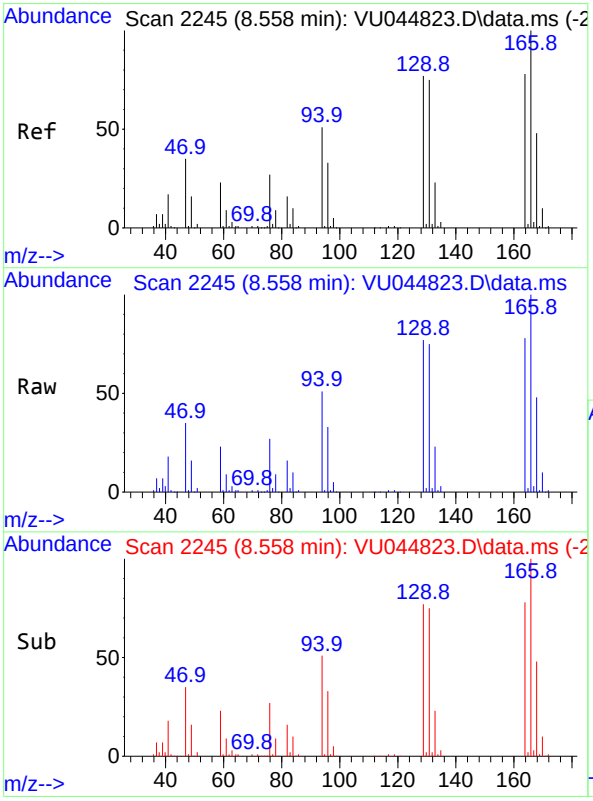


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:117 Resp: 269946

Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.8	71.8
119	32.2	25.8	38.6

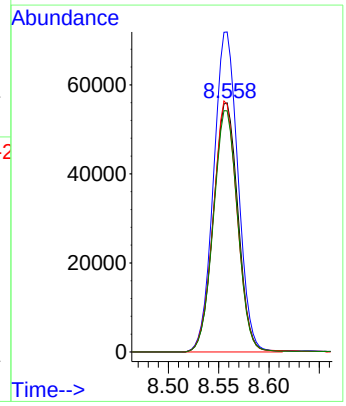




#64
Tetrachloroethene
Concen: 50.773 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:164 Resp: 94980

Ion	Ratio	Lower	Upper
164	100		
166	128.5	102.8	154.2
129	99.3	79.4	119.2
131	96.8	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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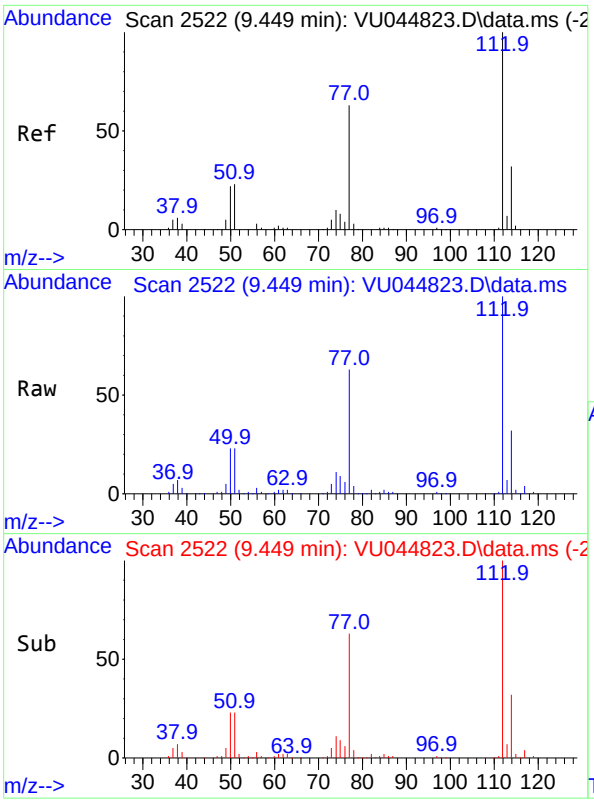
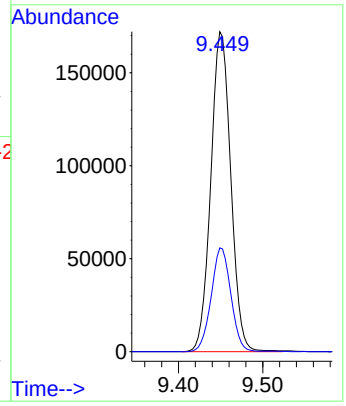
9/27/2021 11:02:41 AM

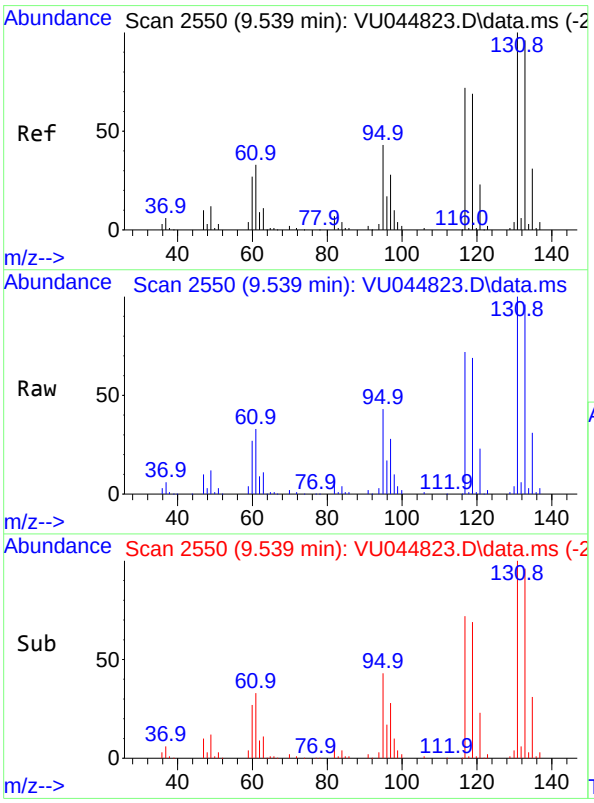


#65
Chlorobenzene
Concen: 48.990 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:112 Resp: 283648

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.9	38.9

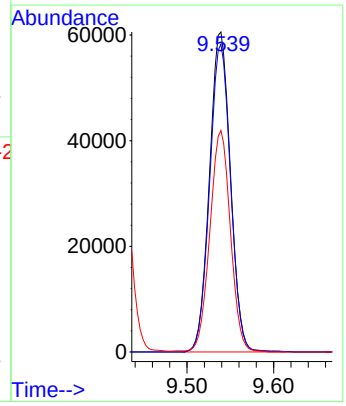




#66
1,1,1,2-Tetrachloroethane
Concen: 50.239 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:131 Resp: 101747

Ion	Ratio	Lower	Upper
131	100		
133	96.2	48.1	144.3
119	68.2	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
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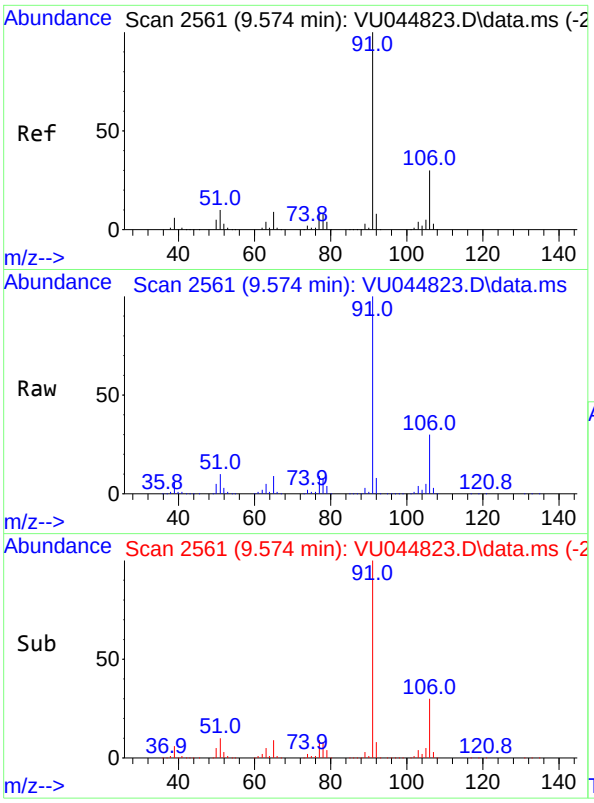
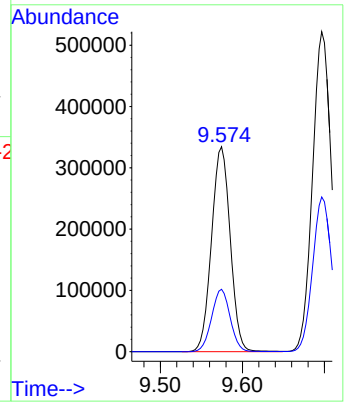
9/27/2021 11:02:41 AM

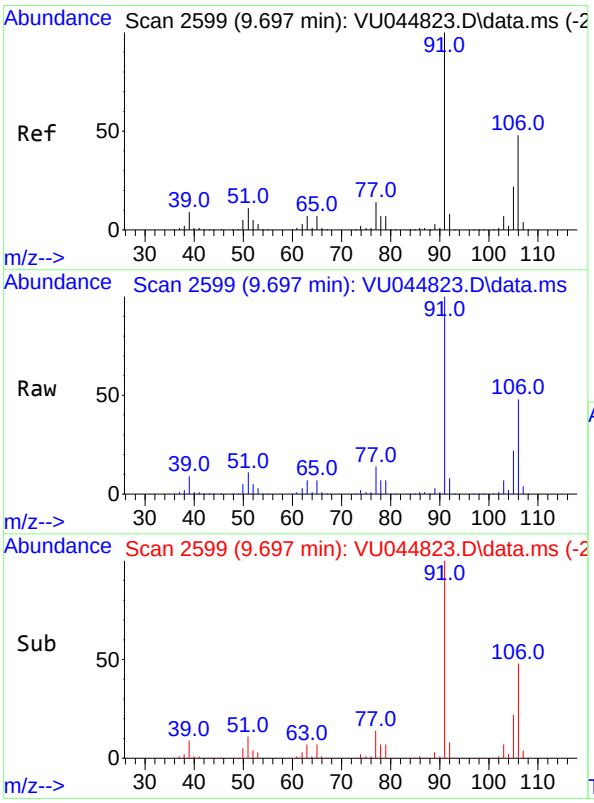


#67
Ethyl Benzene
Concen: 51.091 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 91 Resp: 529966

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

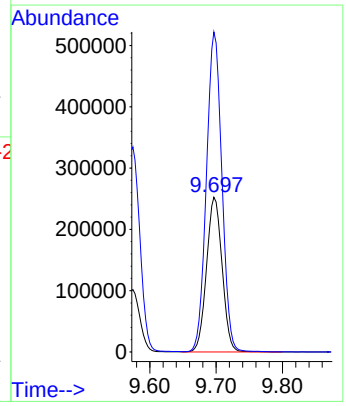




#68
m/p-Xylenes
Concen: 105.850 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:106 Resp: 411341

Ion	Ratio	Lower	Upper
106	100		
91	205.2	164.2	246.2



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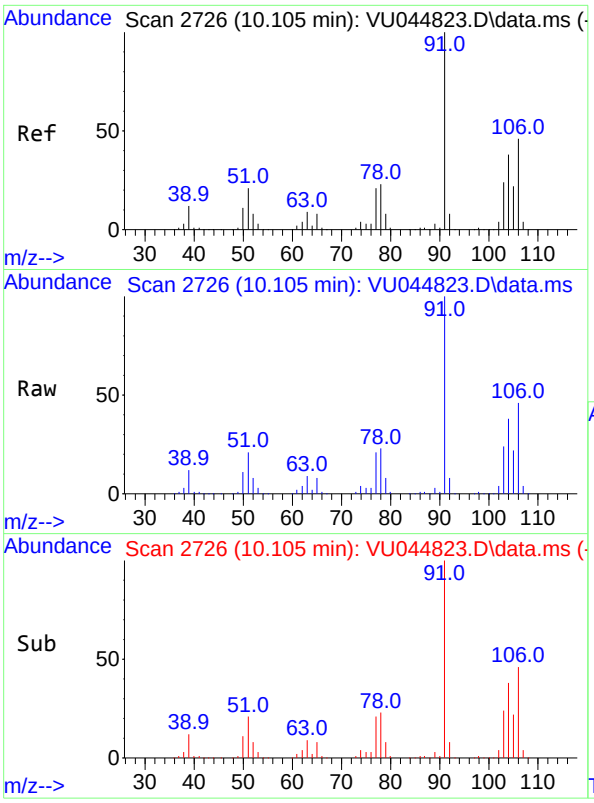
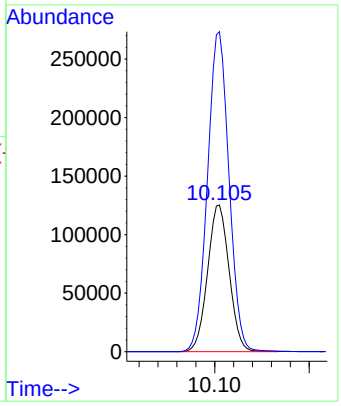
9/27/2021 11:02:41 AM

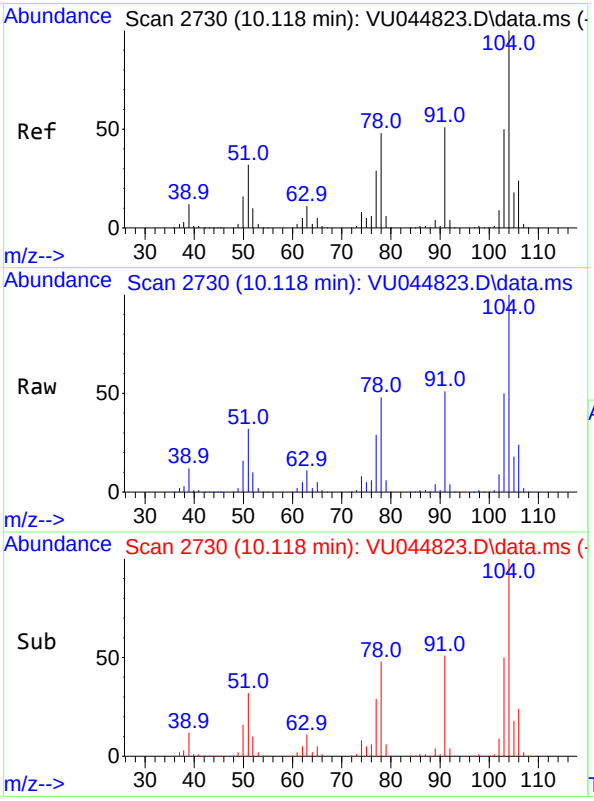


#69
o-Xylene
Concen: 53.709 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:106 Resp: 198558

Ion	Ratio	Lower	Upper
106	100		
91	217.8	108.9	326.7

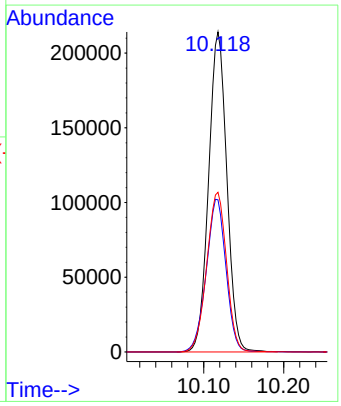




#70
Styrene
Concen: 53.001 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:104 Resp: 339230

Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.4	62.0
103	54.4	43.5	65.3



Instrument :
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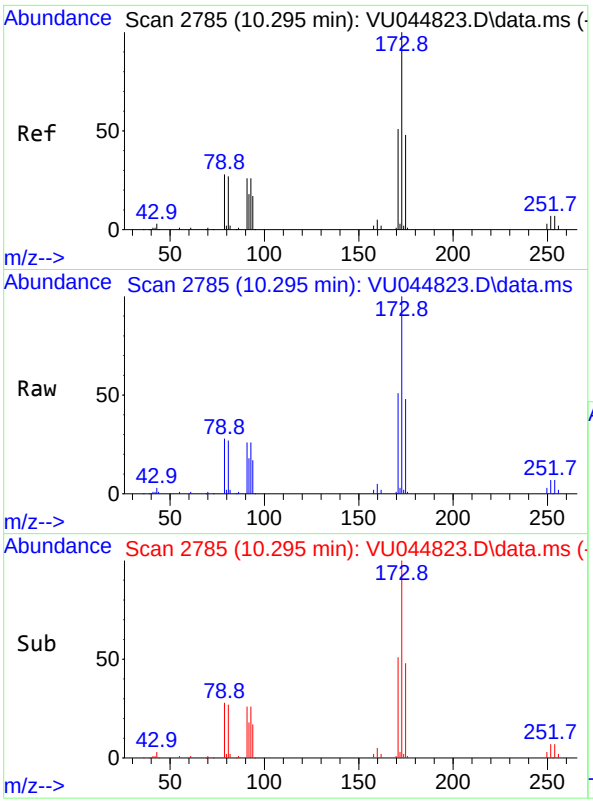
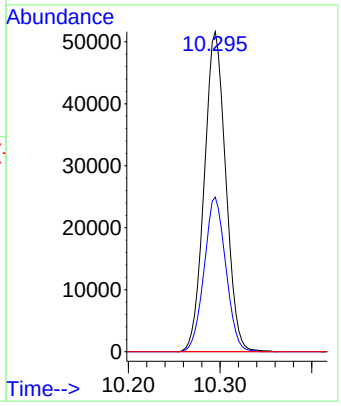
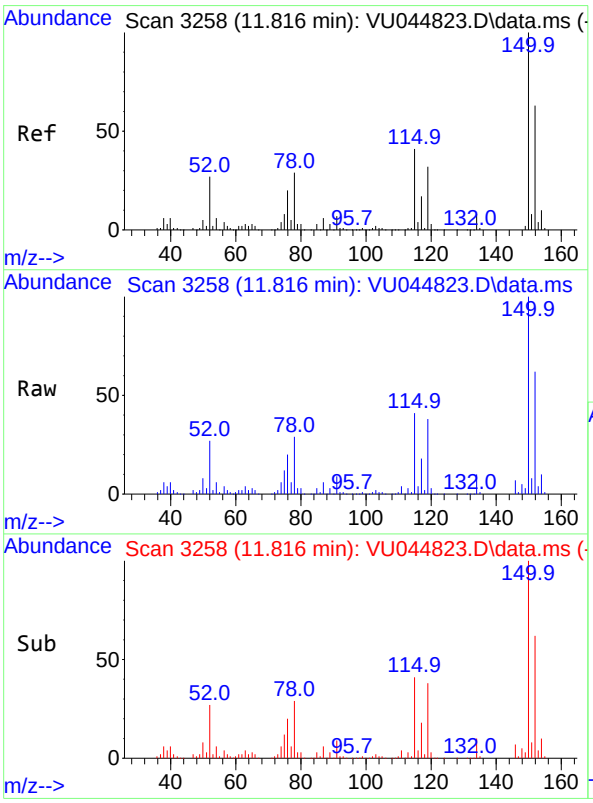


#71
Bromoform
Concen: 49.081 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:173 Resp: 83856

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	73.0
254	0.0	0.0	0.0

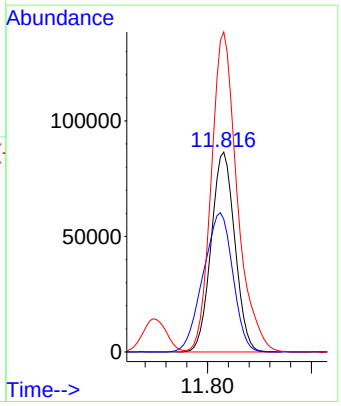




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:152 Resp: 136831

Ion	Ratio	Lower	Upper
152	100		
115	87.1	43.5	130.7
150	175.0	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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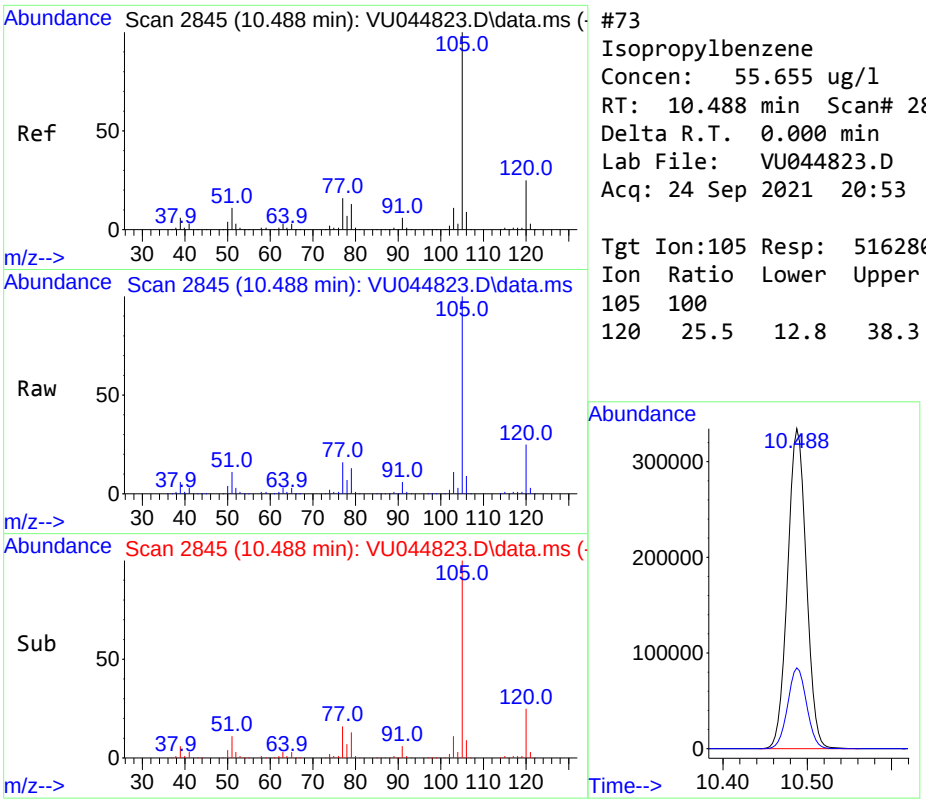
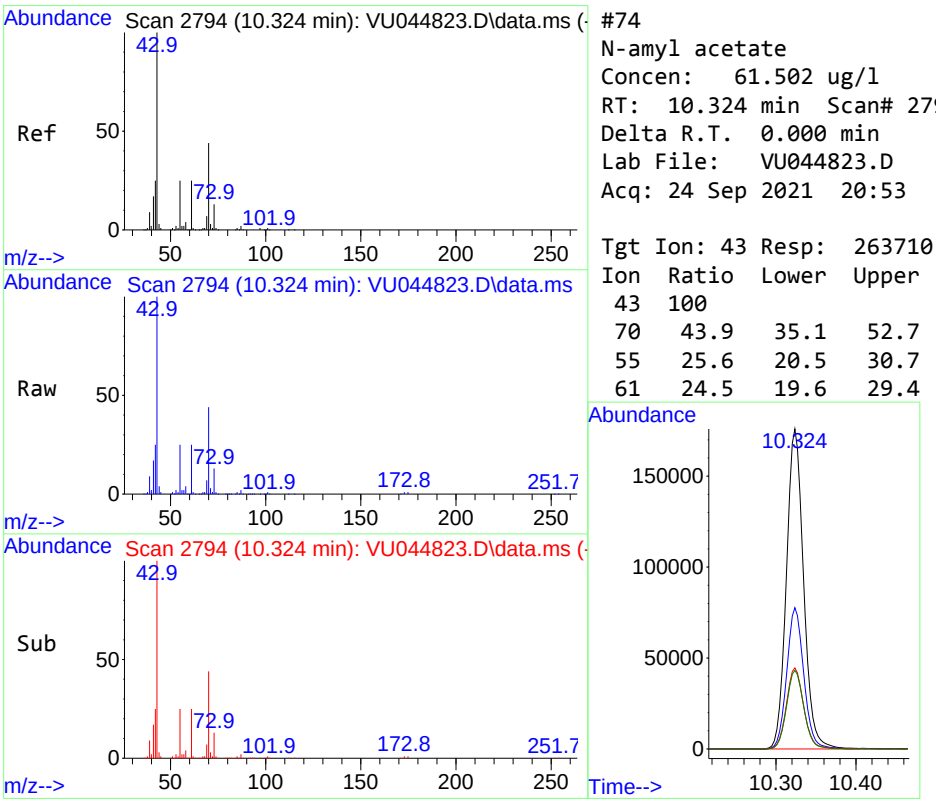


#73
Isopropylbenzene
Concen: 55.655 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:105 Resp: 516280

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3



#74
N-amyl acetate
Concen: 61.502 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 43 Resp: 263710

Ion	Ratio	Lower	Upper
43	100		
70	43.9	35.1	52.7
55	25.6	20.5	30.7
61	24.5	19.6	29.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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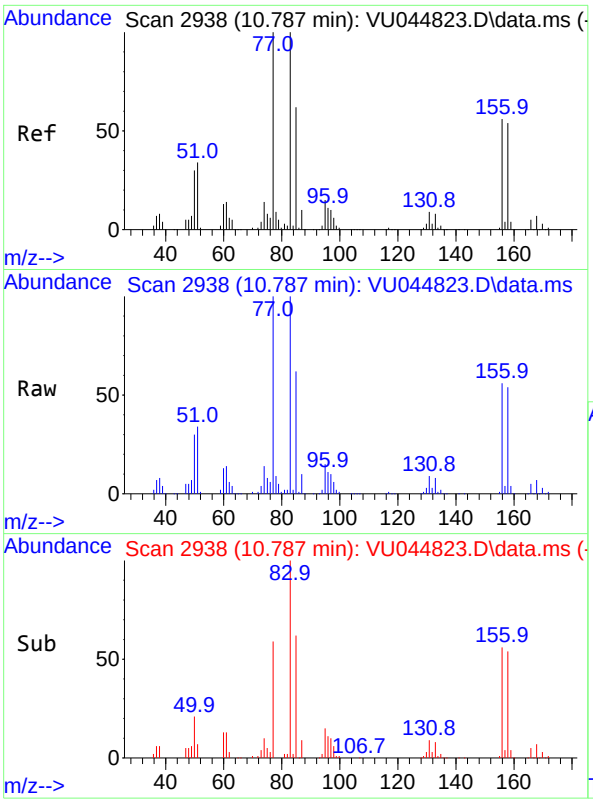
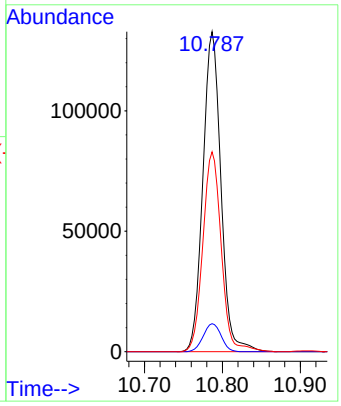
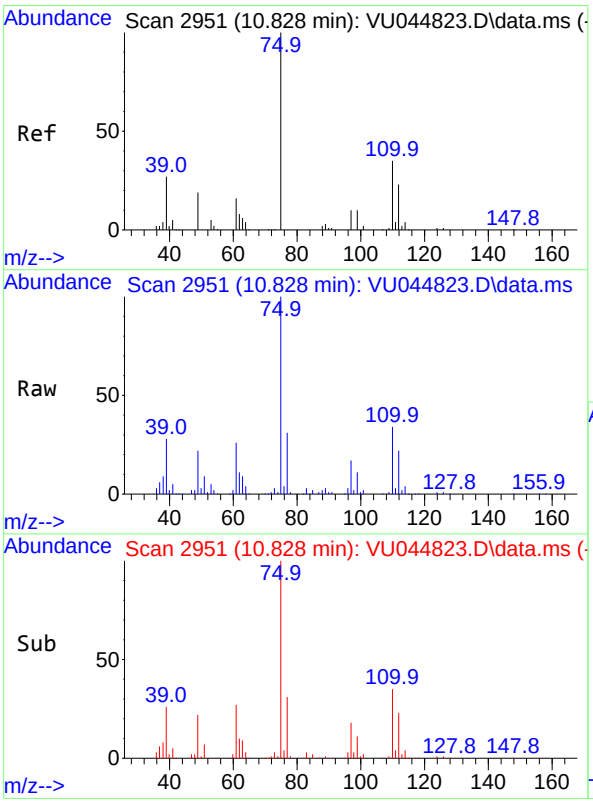


#75
1,1,2,2-Tetrachloroethane
Concen: 52.669 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 83 Resp: 213664

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.3	13.1
85	63.7	31.9	95.5

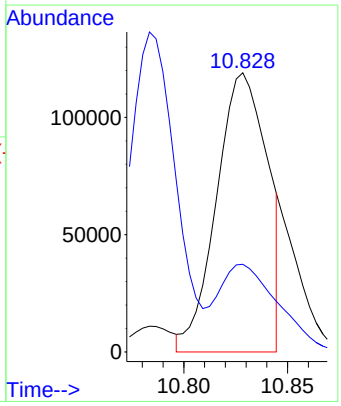




#76
1,2,3-Trichloropropane
Concen: 45.061 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 75 Resp: 202818

Ion	Ratio	Lower	Upper
75	100		
77	35.8	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
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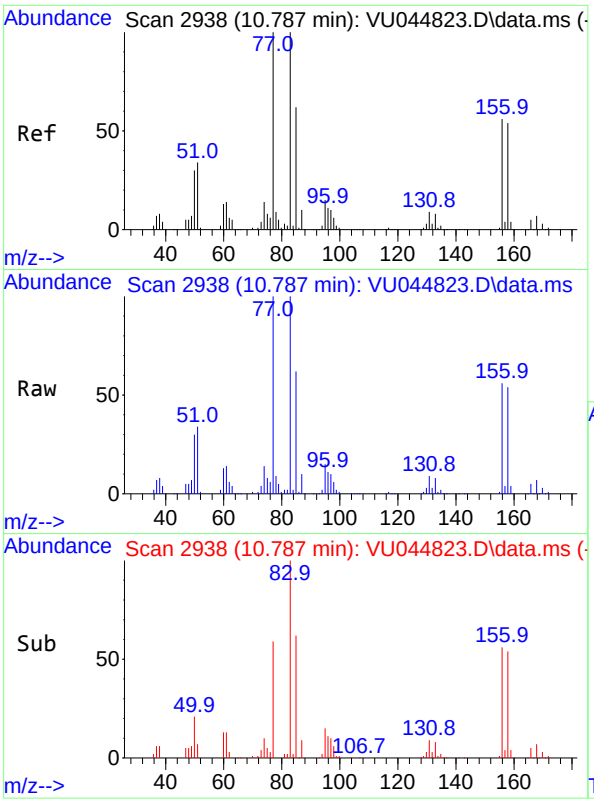
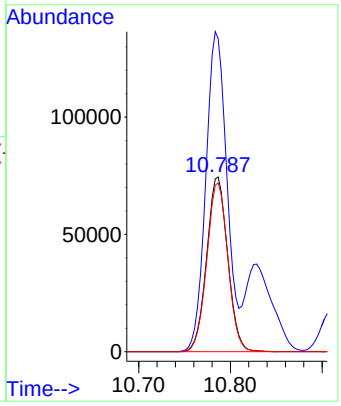
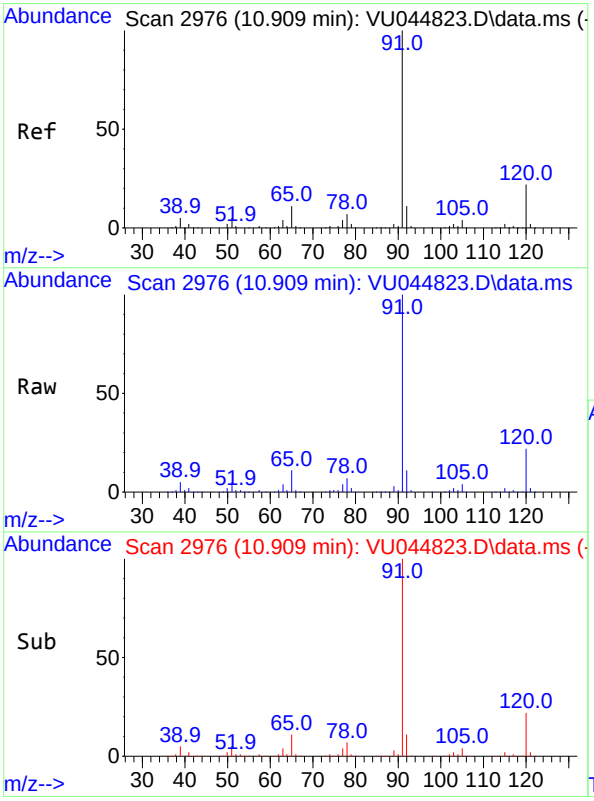


#77
Bromobenzene
Concen: 51.035 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:156 Resp: 118746

Ion	Ratio	Lower	Upper
156	100		
77	182.3	91.1	273.4
158	96.4	48.2	144.6

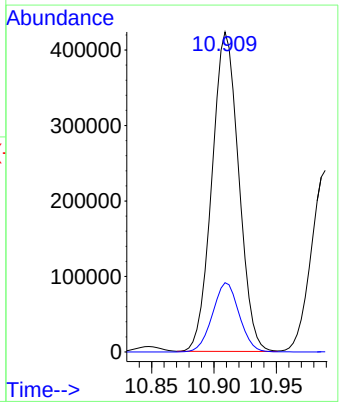




#78
n-propylbenzene
Concen: 52.653 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 91 Resp: 631922

Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.4



Instrument :
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ClientSampleId :
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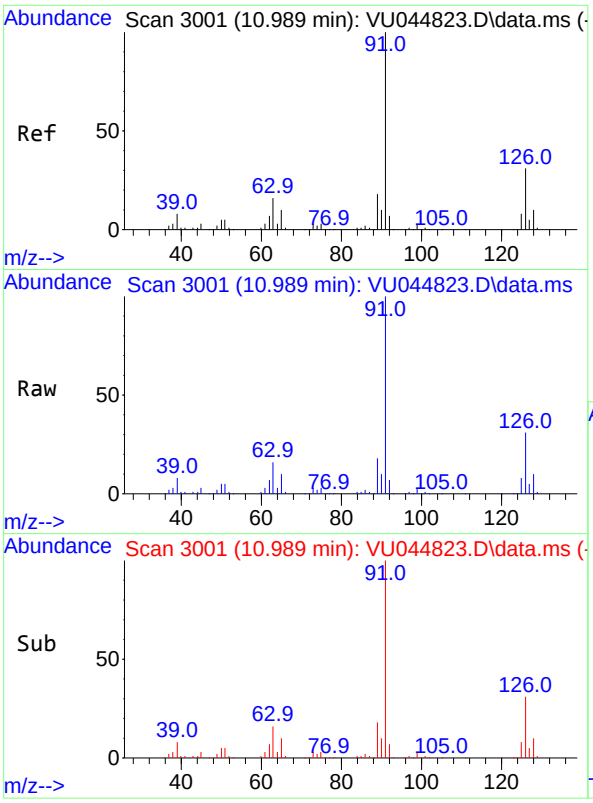
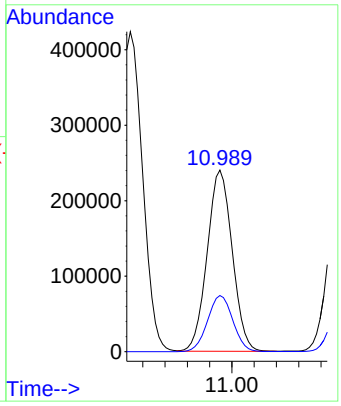
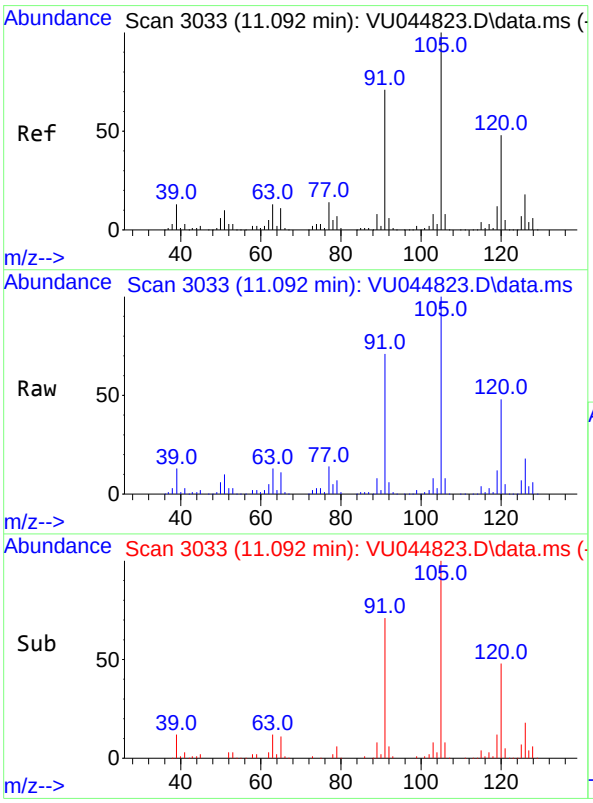


#79
2-Chlorotoluene
Concen: 52.586 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 91 Resp: 374541

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.7	47.0

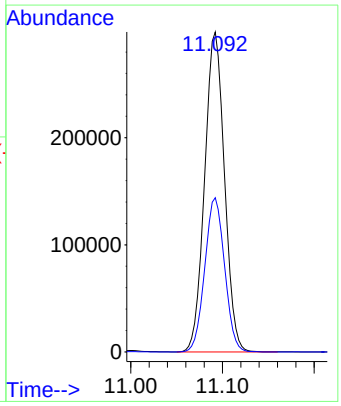




#80
1,3,5-Trimethylbenzene
Concen: 54.764 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:105 Resp: 448934

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.1	72.2



Instrument :
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ClientSampleId :
VSTDICCC050

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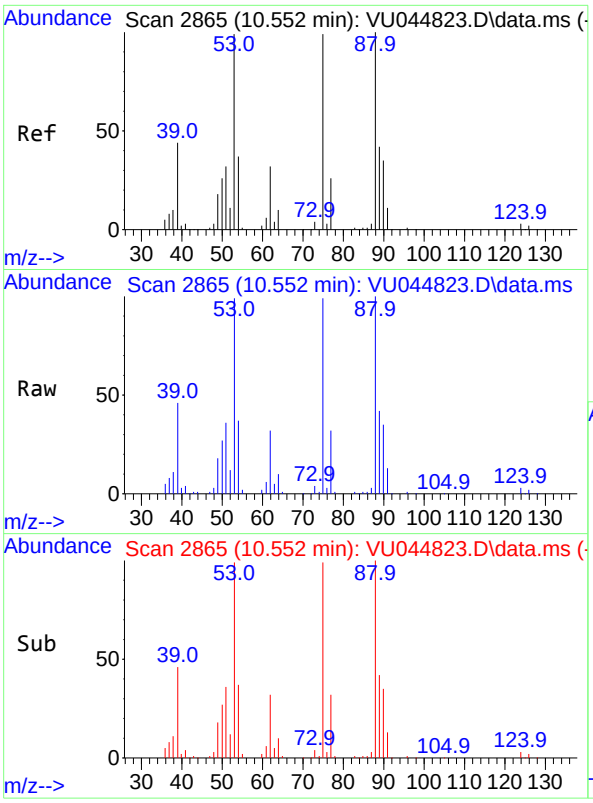
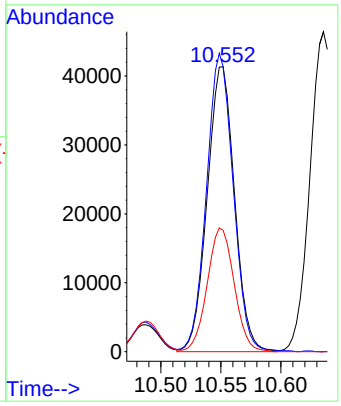
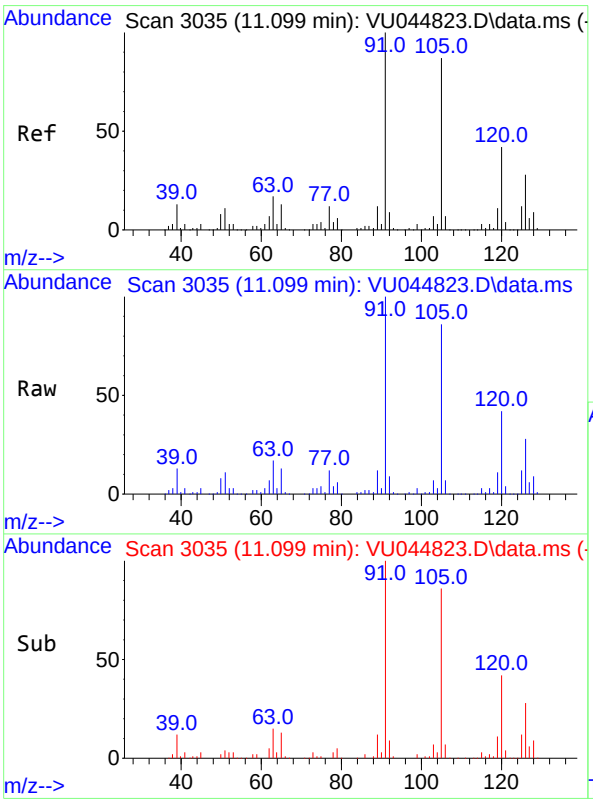


#81
trans-1,4-Dichloro-2-butene
Concen: 51.556 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 75 Resp: 65511

Ion	Ratio	Lower	Upper
75	100		
53	102.5	82.0	123.0
89	42.8	34.2	51.4

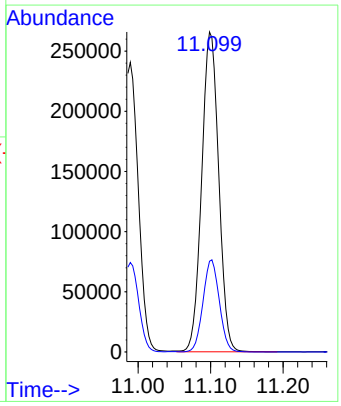




#82
4-Chlorotoluene
Concen: 51.731 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 91 Resp: 432718

Ion	Ratio	Lower	Upper
91	100		
126	27.6	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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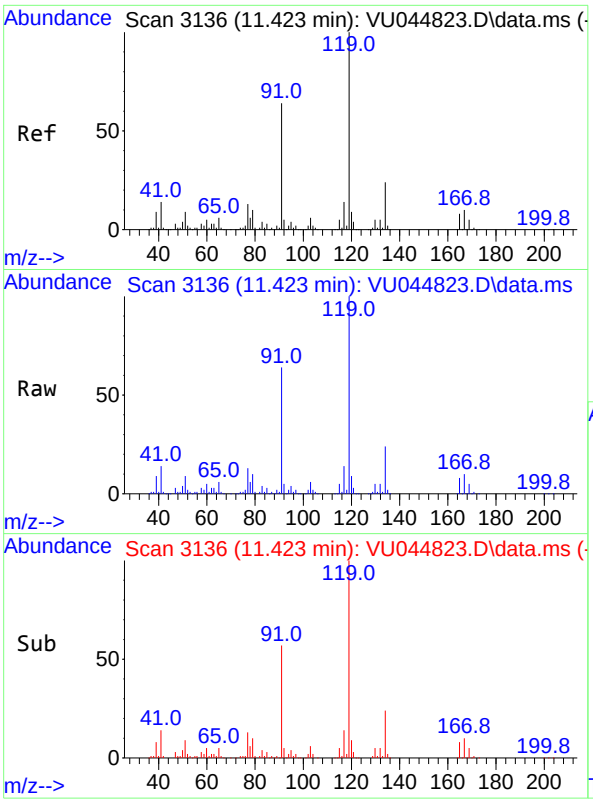
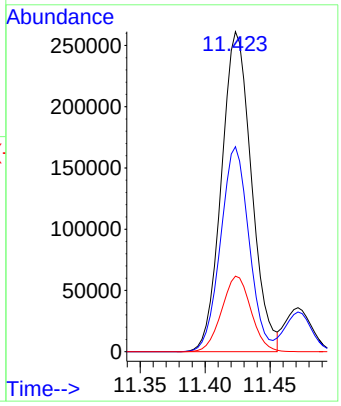
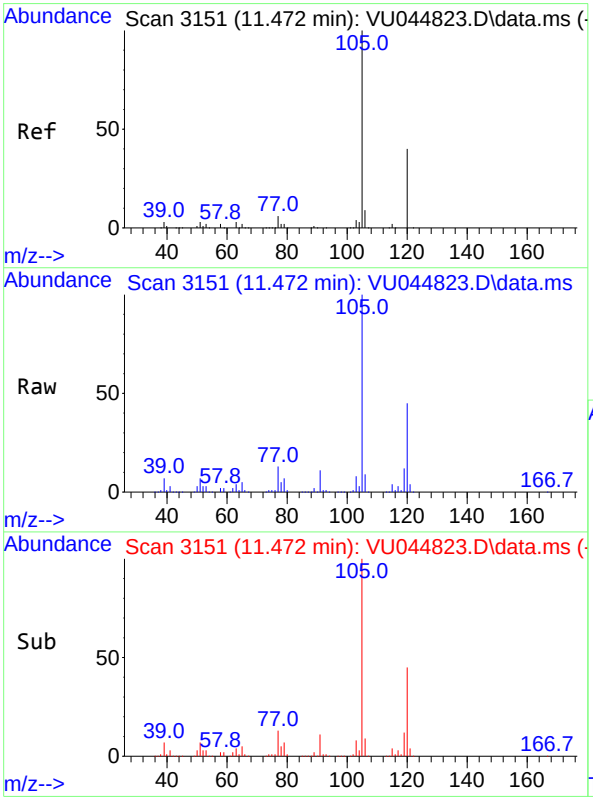


#83
tert-Butylbenzene
Concen: 54.421 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:119 Resp: 419823

Ion	Ratio	Lower	Upper
119	100		
91	60.8	30.4	91.2
134	23.0	11.5	34.5

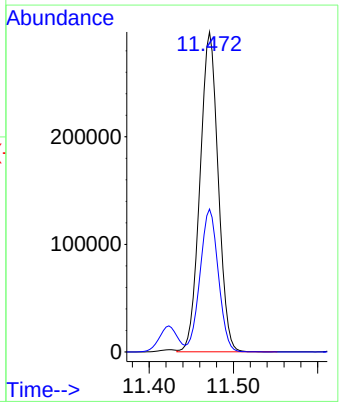




#84
1,2,4-Trimethylbenzene
Concen: 54.461 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:105 Resp: 446755

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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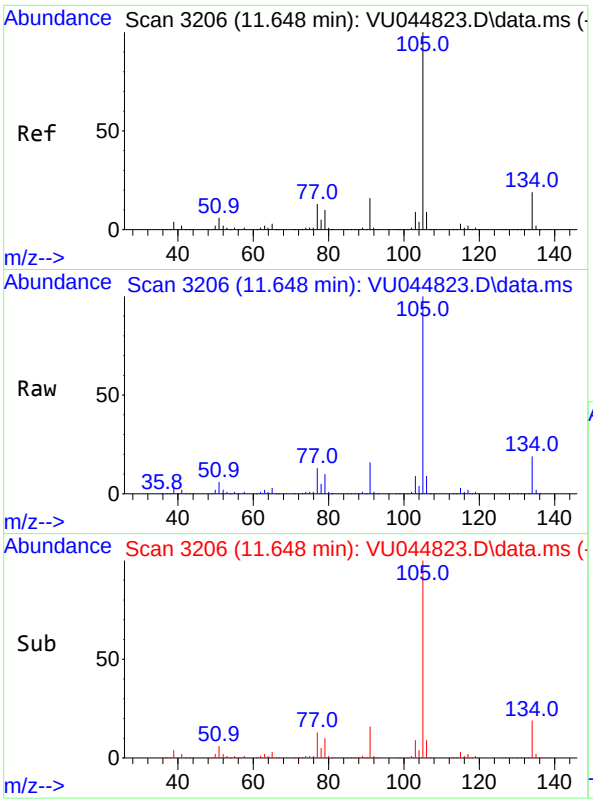
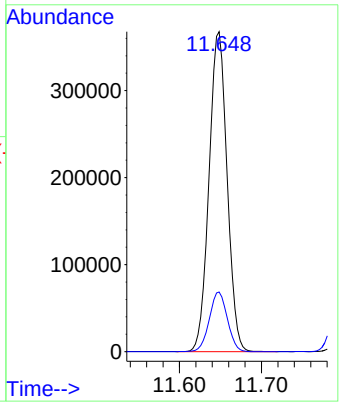
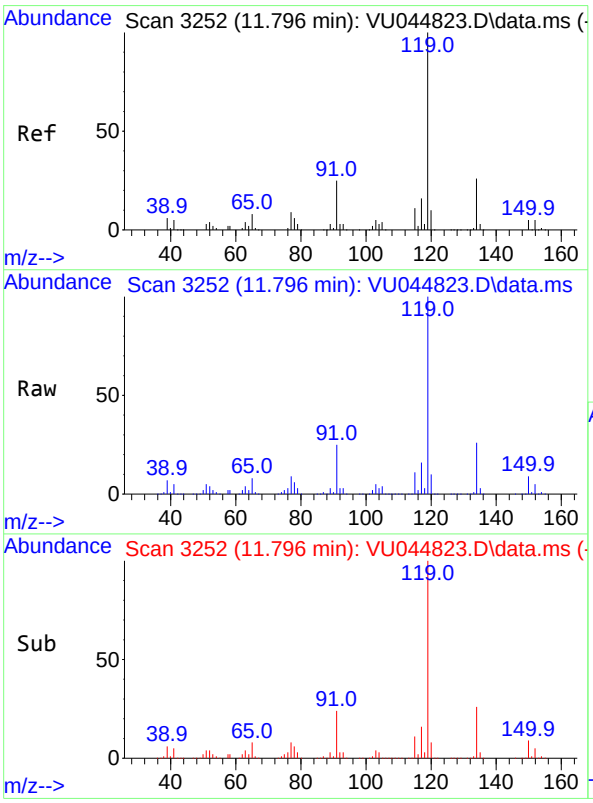


#85
sec-Butylbenzene
Concen: 55.252 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:105 Resp: 561986

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.3	28.0

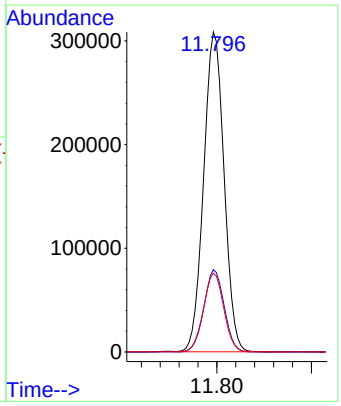




#86
p-Isopropyltoluene
Concen: 53.733 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:119 Resp: 462116

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.3
91	24.4	12.2	36.6



Instrument :
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ClientSampleId :
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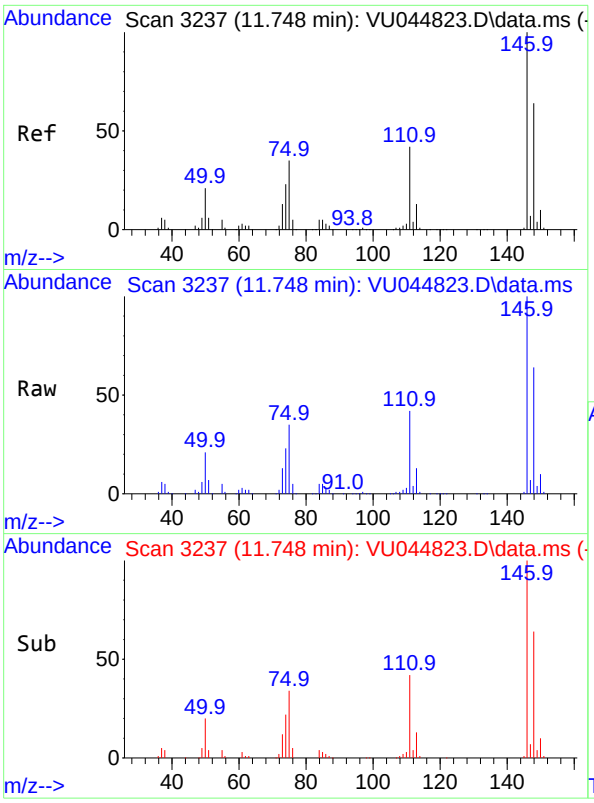
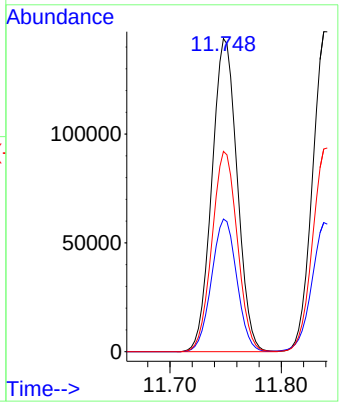
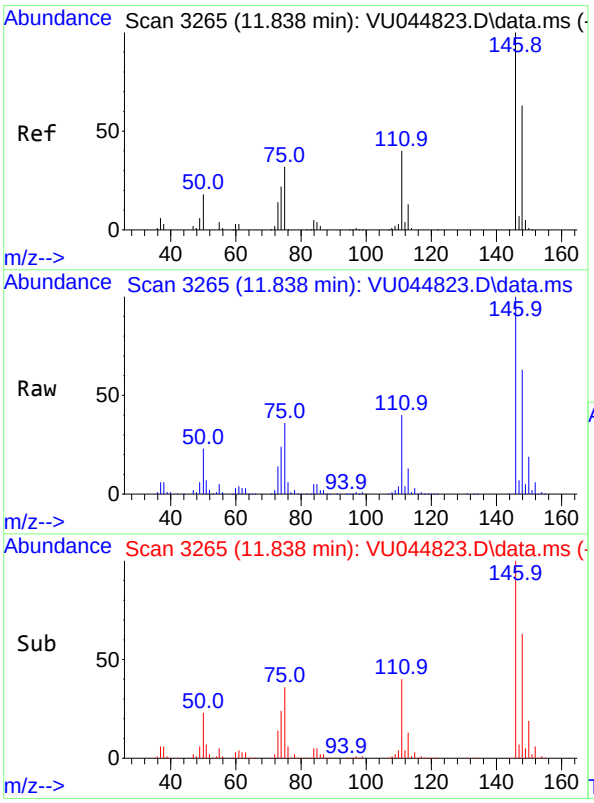


#87
1,3-Dichlorobenzene
Concen: 50.047 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:146 Resp: 227192

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	64.2	32.1	96.3

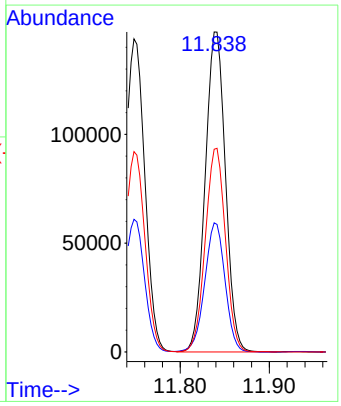




#88
1,4-Dichlorobenzene
Concen: 47.935 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:146 Resp: 231401

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	63.5	31.8	95.3



Instrument :
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ClientSampleId :
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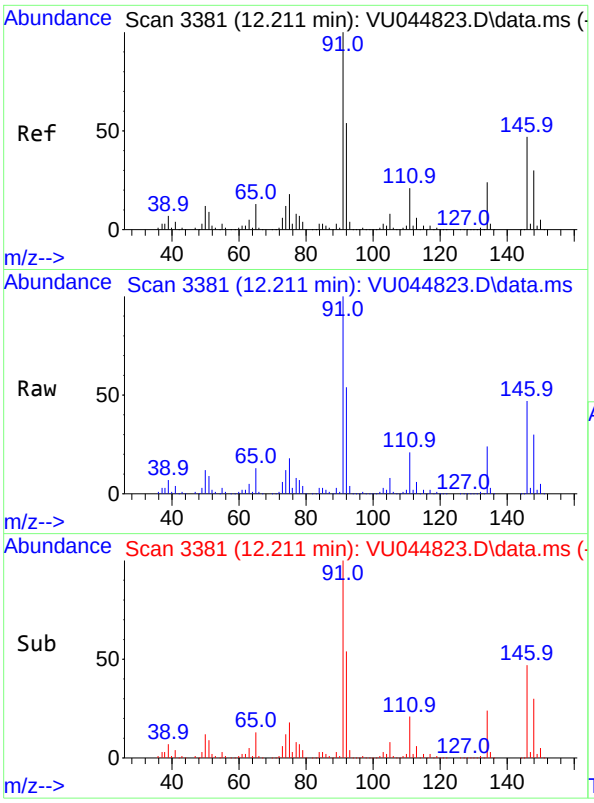
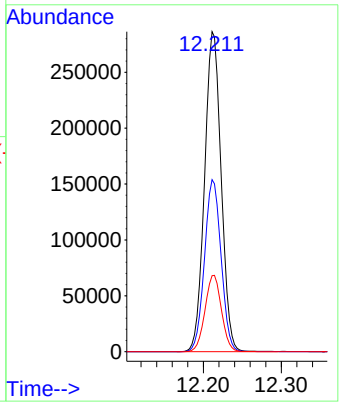
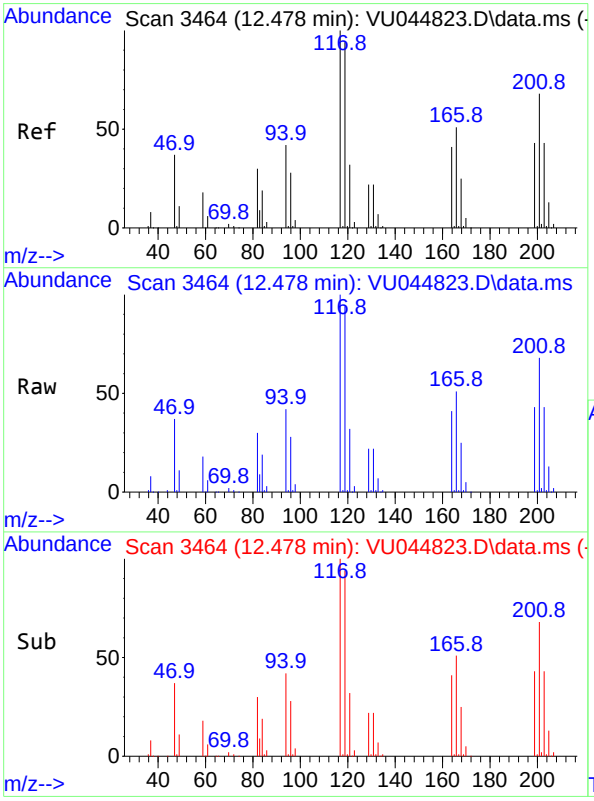


#89
n-Butylbenzene
Concen: 48.971 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 91 Resp: 424496

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.8	80.4
134	23.6	11.8	35.4

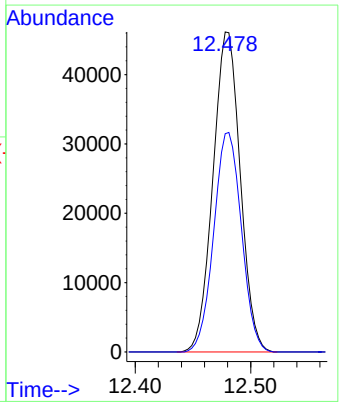




#90
Hexachloroethane
Concen: 54.648 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:117 Resp: 75899

Ion	Ratio	Lower	Upper
117	100		
201	69.5	34.8	104.3



Instrument :
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ClientSampleId :
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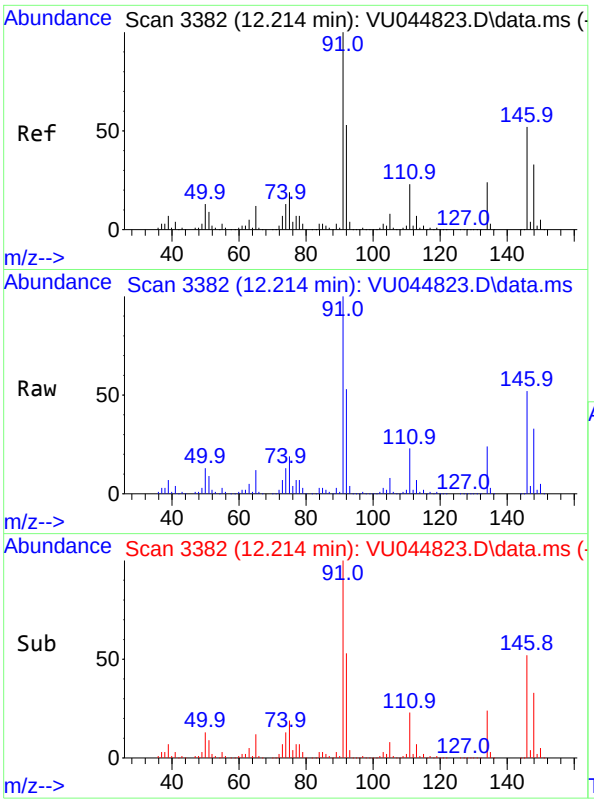
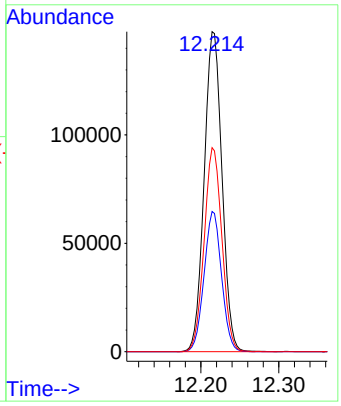
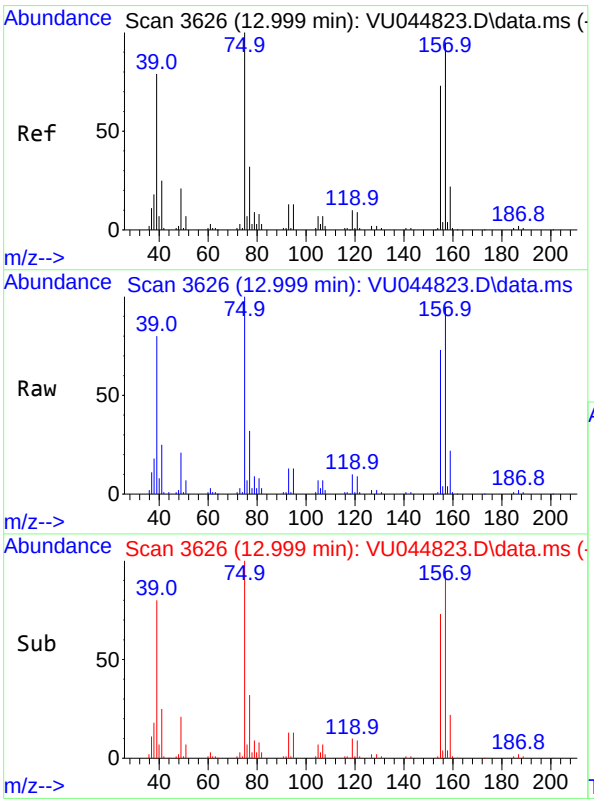


#91
1,2-Dichlorobenzene
Concen: 51.092 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:146 Resp: 234998

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	63.5	31.8	95.3

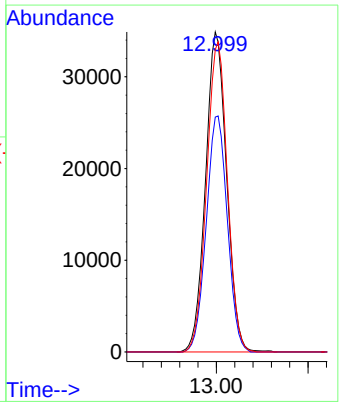




#92
1,2-Dibromo-3-Chloropropane
Concen: 59.312 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion: 75 Resp: 55801

Ion	Ratio	Lower	Upper
75	100		
155	73.7	36.9	110.6
157	95.5	47.8	143.3



Instrument :
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ClientSampleId :
VSTDICCC050

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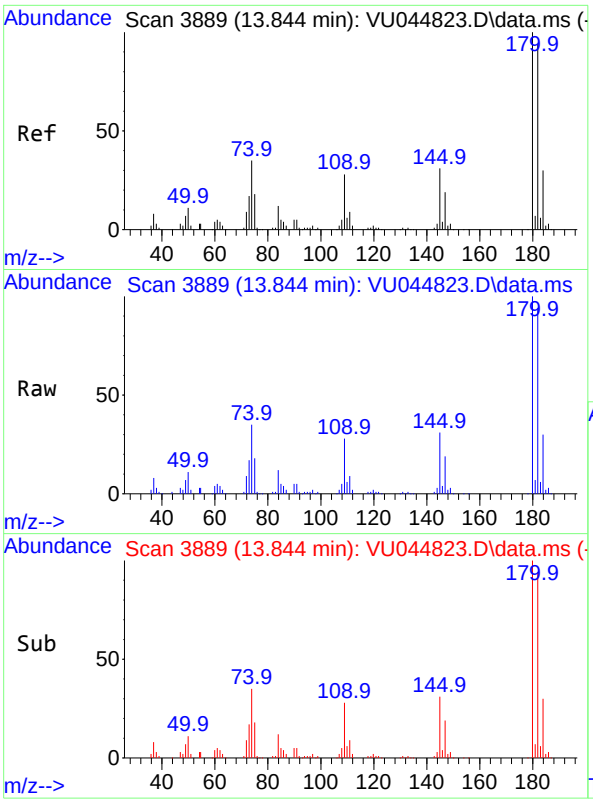
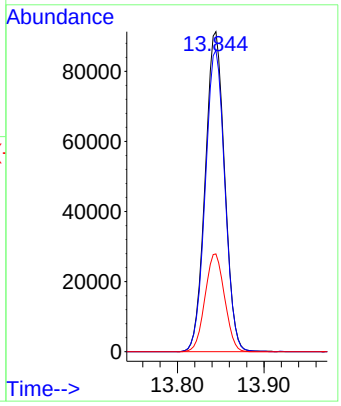
9/27/2021 11:02:41 AM

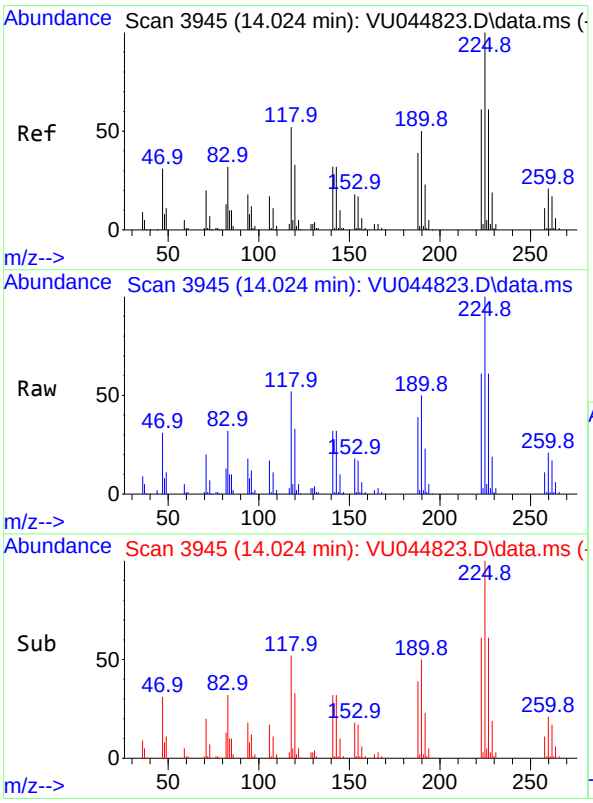


#93
1,2,4-Trichlorobenzene
Concen: 49.596 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:180 Resp: 142245

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.4	142.3
145	30.8	15.4	46.2

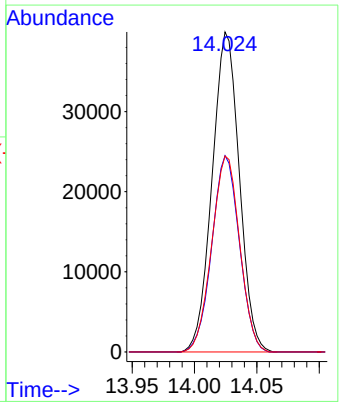




#94
Hexachlorobutadiene
Concen: 40.801 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

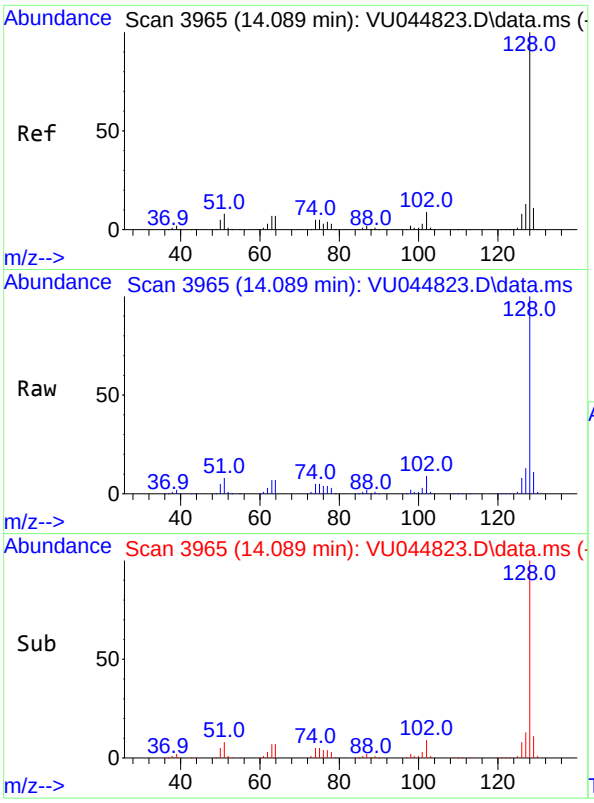
Tgt Ion:225 Resp: 60625

Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.1	93.3
227	62.9	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

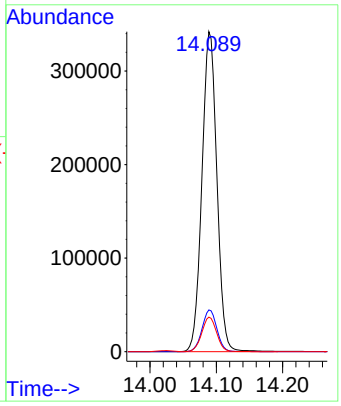
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:41 AM

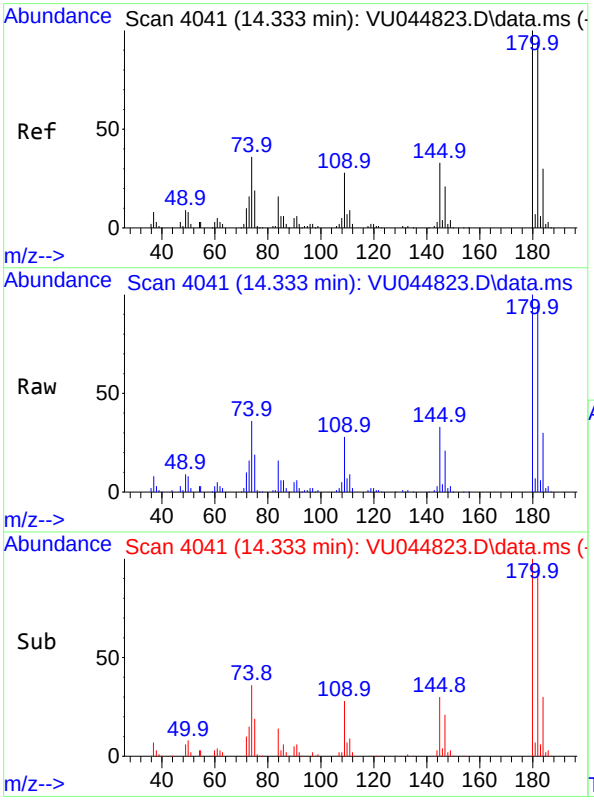


#95
Naphthalene
Concen: 57.440 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:128 Resp: 534751

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.8	8.6	13.0

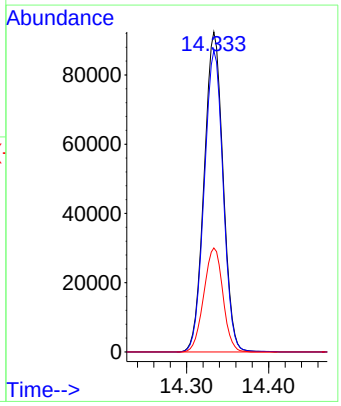




#96
1,2,3-Trichlorobenzene
Concen: 52.627 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU044823.D
Acq: 24 Sep 2021 20:53

Tgt Ion:180 Resp: 148096

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.4
145	32.8	16.4	49.2



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044824.D
Acq On : 24 Sep 2021 21:16
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 25 00:59:07 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
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9/27/2021 11:02:46 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	155557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	278968	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	273444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	148117	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	270144	106.738	ug/l	0.00
Spiked Amount 50.000			Recovery = 213.480%			
35) Dibromofluoromethane	5.295	113	192505	99.487	ug/l	0.00
Spiked Amount 50.000			Recovery = 198.980%			
50) Toluene-d8	7.902	98	746386	100.471	ug/l	0.00
Spiked Amount 50.000			Recovery = 200.940%			
62) 4-Bromofluorobenzene	10.635	95	289339	98.879	ug/l	0.00
Spiked Amount 50.000			Recovery = 197.760%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	194333	89.960	ug/l	96
3) Chloromethane	1.520	50	265865	90.944	ug/l	100
4) Vinyl Chloride	1.607	62	263240	99.488	ug/l	98
5) Bromomethane	1.842	94	125146	113.688	ug/l	98
6) Chloroethane	1.919	64	177281	104.030	ug/l	99
7) Trichlorofluoromethane	2.131	101	319619	100.107	ug/l	99
8) Diethyl Ether	2.379	74	152134	114.008	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.578	101	189050	97.592	ug/l	99
10) Methyl Iodide	2.723	142	224419	102.594	ug/l	99
11) Tert butyl alcohol	3.244	59	398884m	575.057	ug/l	
12) 1,1-Dichloroethene	2.578	96	191251	99.424	ug/l	98
13) Acrolein	2.488	56	110715	308.701	ug/l	99
14) Allyl chloride	2.925	41	374884	103.705	ug/l	99
15) Acrylonitrile	3.317	53	855871	598.273	ug/l	99
16) Acetone	2.633	43	737165	495.268	ug/l	100
17) Carbon Disulfide	2.793	76	536476	88.448	ug/l	100
18) Methyl Acetate	2.951	43	508508	145.004	ug/l	99
19) Methyl tert-butyl Ether	3.369	73	742727	122.289	ug/l	100
20) Methylene Chloride	3.047	84	232392	92.023	ug/l	98
21) trans-1,2-Dichloroethene	3.356	96	205808	97.328	ug/l	99
22) Diisopropyl ether	3.999	45	766111	120.404	ug/l	96
23) Vinyl Acetate	3.961	43	3262242	554.675	ug/l	100
24) 1,1-Dichloroethane	3.874	63	428028	103.247	ug/l	100
25) 2-Butanone	4.710	43	1229065	577.523	ug/l	100
26) 2,2-Dichloropropane	4.671	77	319212	98.506	ug/l	100
27) cis-1,2-Dichloroethene	4.671	96	248148	103.933	ug/l	100
28) Bromochloromethane	4.980	49	193123	97.937	ug/l	100
29) Tetrahydrofuran	5.054	42	779571	656.763	ug/l	99
30) Chloroform	5.092	83	417997	103.233	ug/l	99
31) Cyclohexane	5.391	56	383019	106.619	ug/l	98
32) 1,1,1-Trichloroethane	5.321	97	351476	104.652	ug/l	99
36) 1,1-Dichloropropene	5.530	75	307334	98.957	ug/l	100
37) Ethyl Acetate	4.809	43	445158	116.029	ug/l	99
38) Carbon Tetrachloride	5.530	117	281982	100.512	ug/l	98
39) Methylcyclohexane	6.767	83	369014	109.833	ug/l	97
40) Benzene	5.777	78	920516	99.876	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044824.D
Acq On : 24 Sep 2021 21:16
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
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9/27/2021 11:02:46 AM

Quant Time: Sep 25 00:59:07 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.977	41	235712	120.410	ug/l		100
42) 1,2-Dichloroethane	5.800	62	355379	107.188	ug/l		100
43) Isopropyl Acetate	5.915	43	648911	119.693	ug/l		99
44) Trichloroethene	6.546	130	215574	101.301	ug/l		99
45) 1,2-Dichloropropane	6.796	63	253252	100.122	ug/l		99
46) Dibromomethane	6.922	93	166604	102.363	ug/l		100
47) Bromodichloromethane	7.112	83	333854	104.392	ug/l		100
48) Methyl methacrylate	6.964	41	318845	121.069	ug/l		99
49) 1,4-Dioxane	6.980	88	165319	2408.108	ug/l		97
51) 4-Methyl-2-Pentanone	7.800	43	2386886	610.495	ug/l		99
52) Toluene	7.973	92	569315	104.294	ug/l		99
53) t-1,3-Dichloropropene	8.214	75	376629	108.473	ug/l		99
54) cis-1,3-Dichloropropene	7.610	75	399374	106.693	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	236921	102.805	ug/l		98
56) Ethyl methacrylate	8.337	69	431150	122.336	ug/l		99
57) 1,3-Dichloropropane	8.581	76	427656	104.479	ug/l		100
58) 2-Chloroethyl Vinyl ether	7.468	63	523398	504.518	ug/l		100
59) 2-Hexanone	8.693	43	1983167	634.721	ug/l		99
60) Dibromochloromethane	8.816	129	242613	106.540	ug/l		98
61) 1,2-Dibromoethane	8.928	107	258608	106.698	ug/l		99
64) Tetrachloroethene	8.558	164	184859	97.555	ug/l		99
65) Chlorobenzene	9.449	112	588473	100.338	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	209015	101.883	ug/l		100
67) Ethyl Benzene	9.574	91	1109588	105.601	ug/l		100
68) m/p-Xylenes	9.697	106	850858	216.149	ug/l		99
69) o-Xylene	10.105	106	416597	111.247	ug/l		100
70) Styrene	10.118	104	723598	111.607	ug/l		100
71) Bromoform	10.295	173	189526	109.511	ug/l	#	99
73) Isopropylbenzene	10.488	105	1092118	108.760	ug/l		100
74) N-amyl acetate	10.324	43	616230	132.766	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.787	83	480176	109.347	ug/l		99
76) 1,2,3-Trichloropropane	10.828	75	471283m	96.729	ug/l		
77) Bromobenzene	10.787	156	255448	101.423	ug/l		100
78) n-propylbenzene	10.909	91	1359831	104.671	ug/l		100
79) 2-Chlorotoluene	10.989	91	796632	103.326	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	953639	107.468	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.552	75	154382	112.239	ug/l		98
82) 4-Chlorotoluene	11.098	91	930802	102.798	ug/l		100
83) tert-Butylbenzene	11.423	119	925120	110.784	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	958161	107.903	ug/l		100
85) sec-Butylbenzene	11.648	105	1214308	110.289	ug/l		100
86) p-Isopropyltoluene	11.796	119	1008495	108.329	ug/l		99
87) 1,3-Dichlorobenzene	11.748	146	501870	102.131	ug/l		99
88) 1,4-Dichlorobenzene	11.841	146	512046	97.989	ug/l		100
89) n-Butylbenzene	12.211	91	961464	102.465	ug/l		99
90) Hexachloroethane	12.481	117	172899	115.003	ug/l		100
91) 1,2-Dichlorobenzene	12.217	146	530123	106.475	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.999	75	128074	125.759	ug/l		99
93) 1,2,4-Trichlorobenzene	13.844	180	330482	106.449	ug/l		99
94) Hexachlorobutadiene	14.024	225	138132	85.879	ug/l		99
95) Naphthalene	14.089	128	1212168	120.283	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	329330	108.113	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044824.D
Acq On : 24 Sep 2021 21:16
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 25 00:59:07 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:46 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

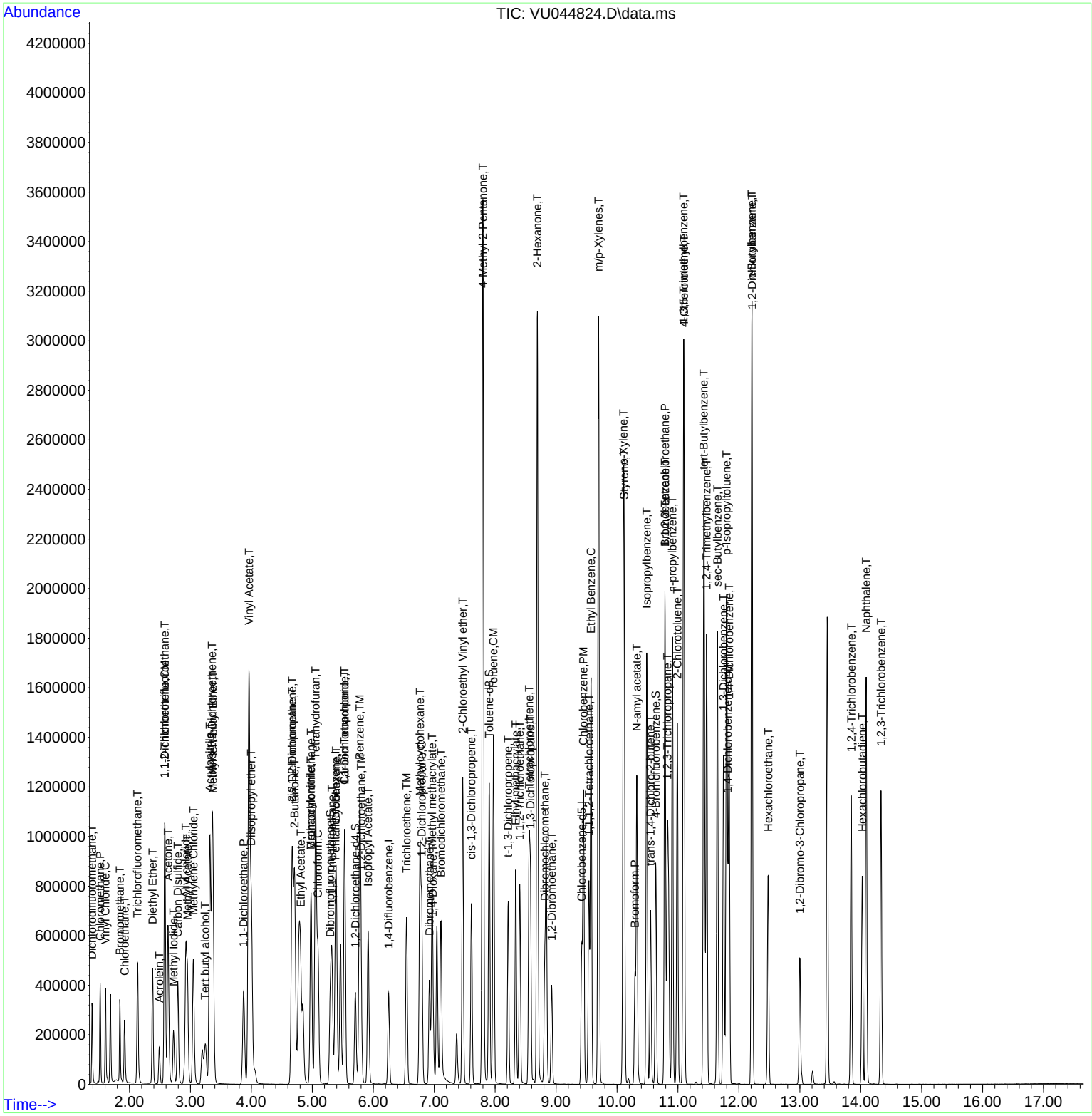
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044824.D
Acq On : 24 Sep 2021 21:16
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 25 00:59:07 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

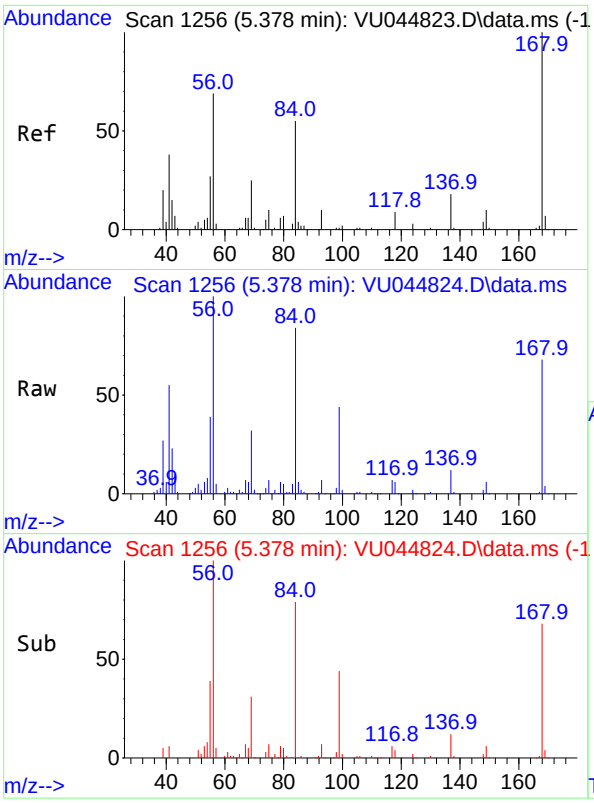
Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:46 AM



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

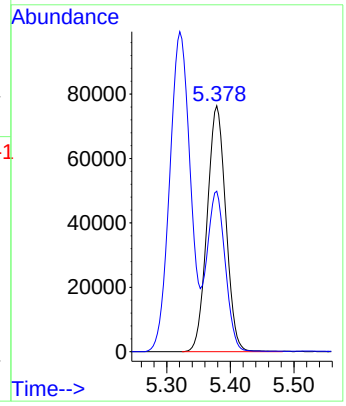
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:46 AM

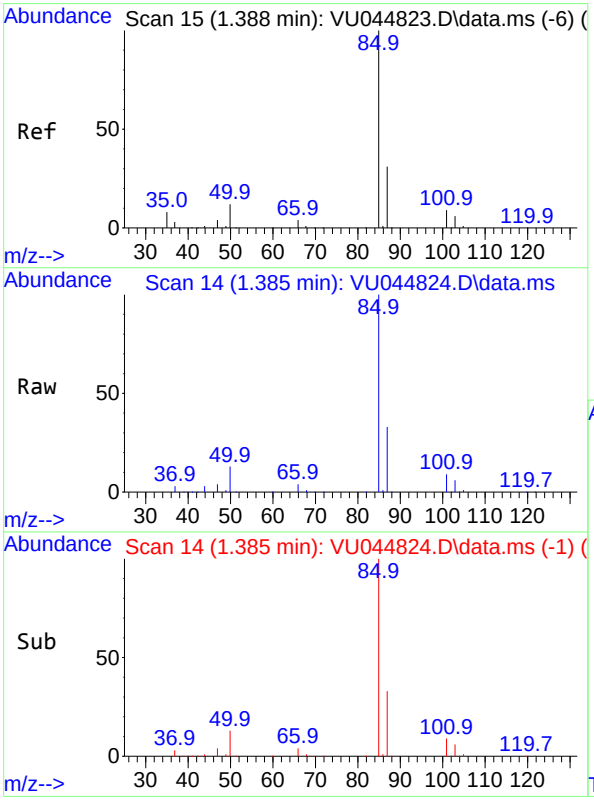


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:168 Resp: 155557

Ion	Ratio	Lower	Upper
168	100		
99	65.1	51.4	77.0

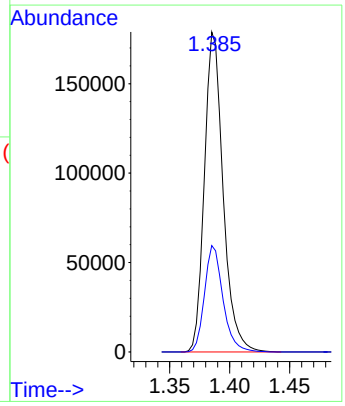




#2
Dichlorodifluoromethane
Concen: 89.960 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

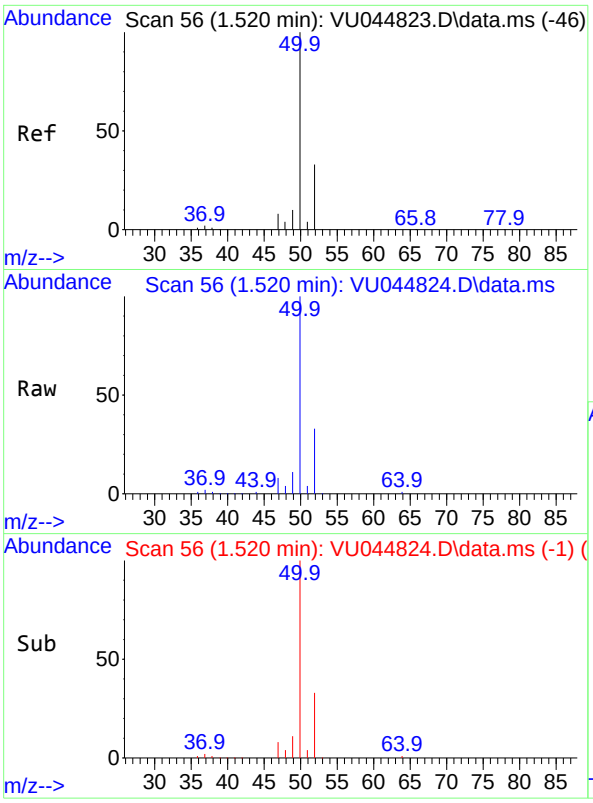
Tgt Ion: 85 Resp: 194333

Ion	Ratio	Lower	Upper
85	100		
87	33.2	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

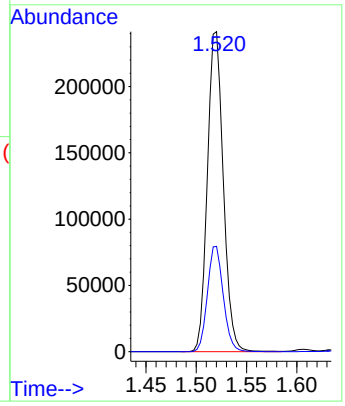
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:46 AM

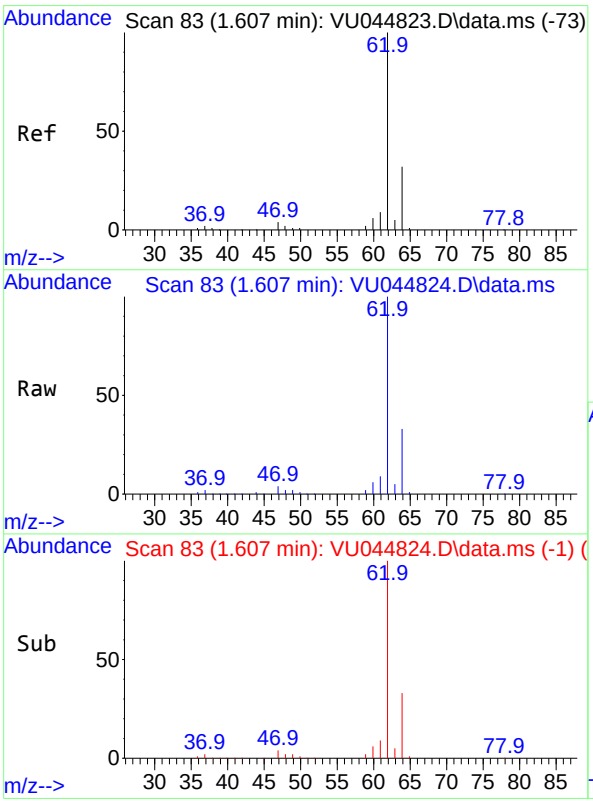


#3
Chloromethane
Concen: 90.944 ug/l
RT: 1.520 min Scan# 56
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 50 Resp: 265865

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.3	39.5

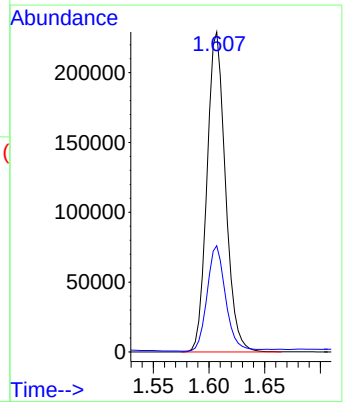




#4
Vinyl Chloride
Concen: 99.488 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

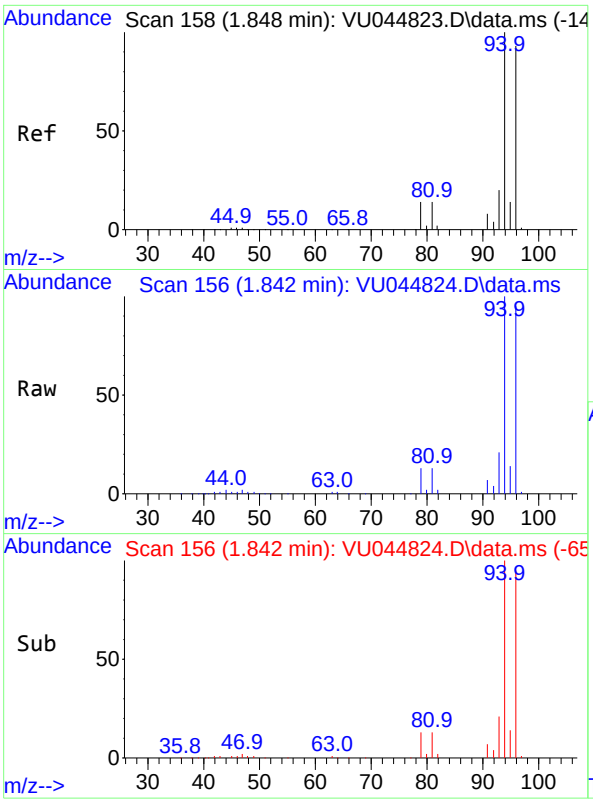
Tgt Ion: 62 Resp: 263240

Ion	Ratio	Lower	Upper
62	100		
64	32.9	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

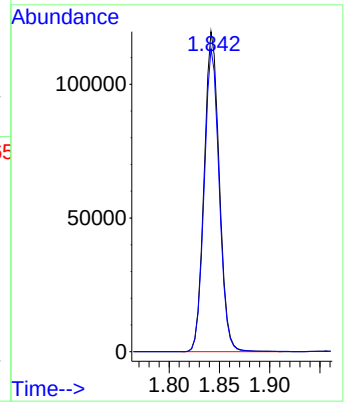
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:46 AM

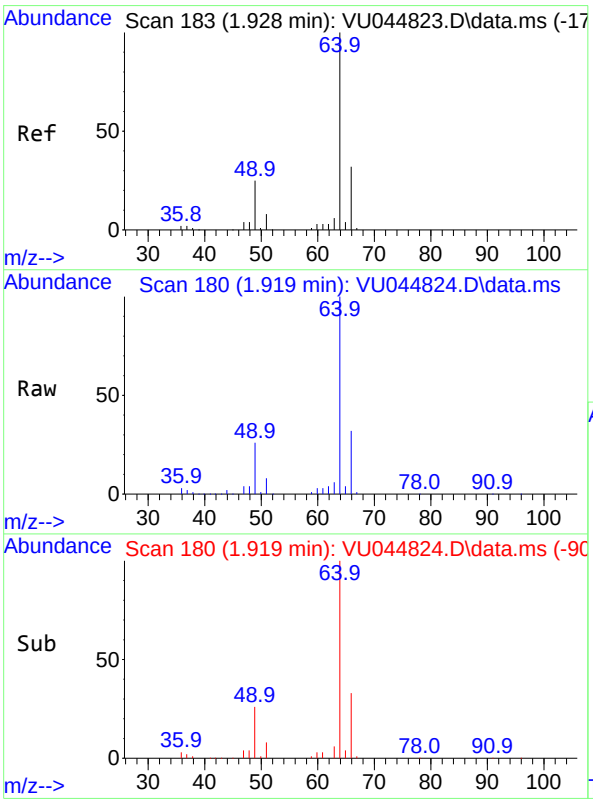


#5
Bromomethane
Concen: 113.688 ug/l
RT: 1.842 min Scan# 156
Delta R.T. -0.006 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 94 Resp: 125146

Ion	Ratio	Lower	Upper
94	100		
96	94.7	74.5	111.7

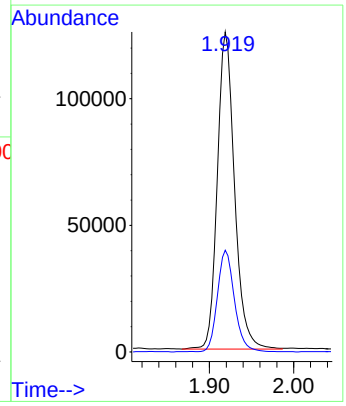




#6
Chloroethane
Concen: 104.030 ug/l
RT: 1.919 min Scan# 180
Delta R.T. -0.010 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 64 Resp: 177281

Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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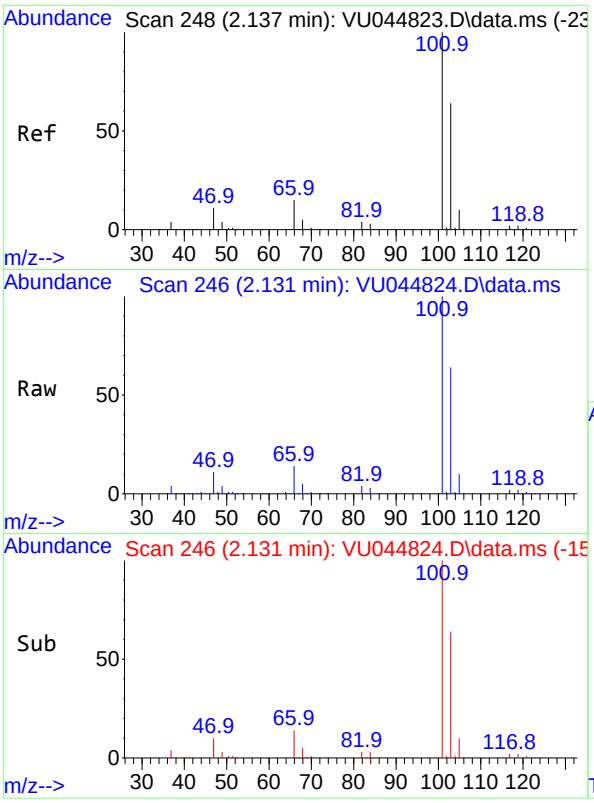
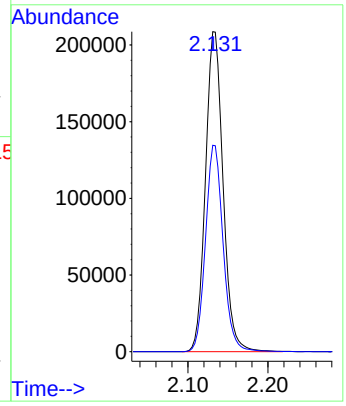
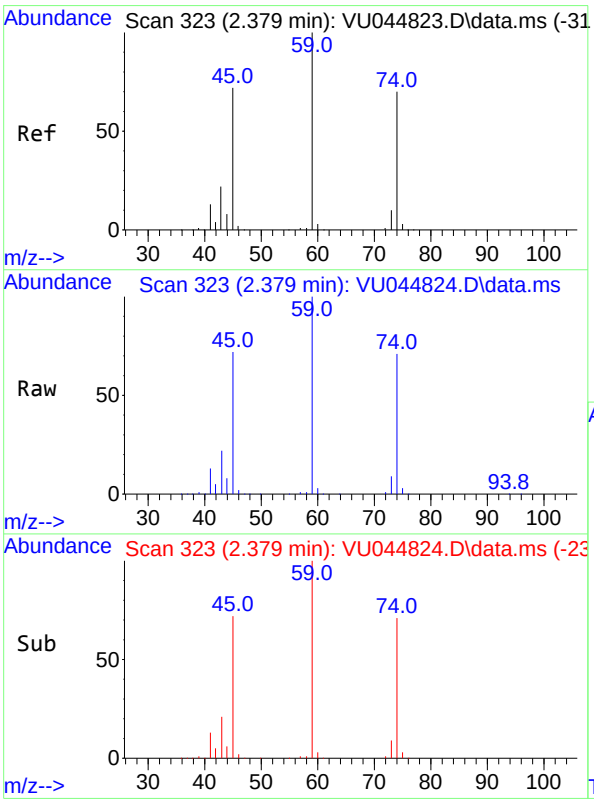


#7
Trichlorofluoromethane
Concen: 100.107 ug/l
RT: 2.131 min Scan# 246
Delta R.T. -0.006 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:101 Resp: 319619

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.2	76.8

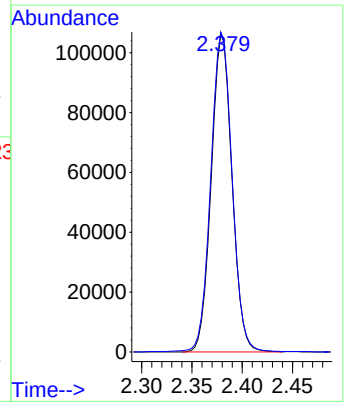




#8
Diethyl Ether
Concen: 114.008 ug/l
RT: 2.379 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 74 Resp: 152134

Ion	Ratio	Lower	Upper
74	100		
45	104.1	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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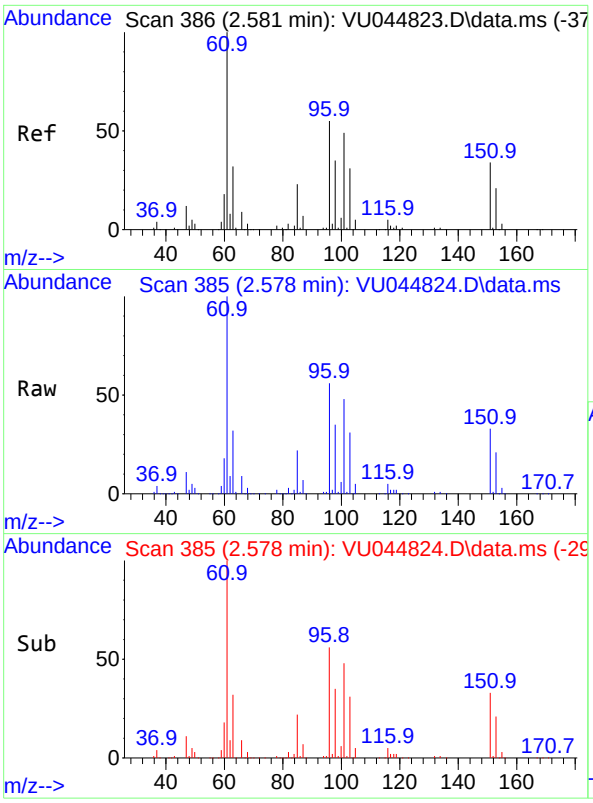
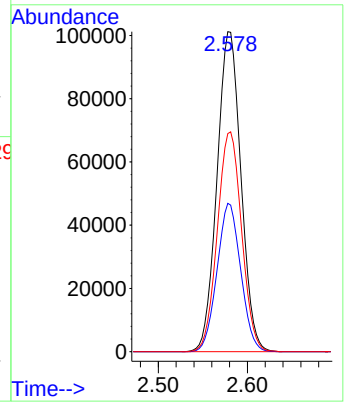
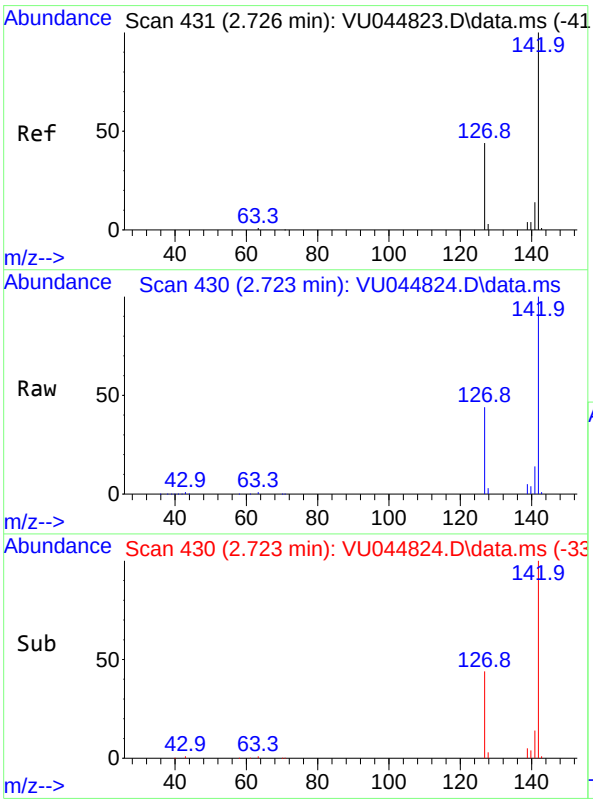


#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.592 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:101 Resp: 189050

Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.2	55.8
151	69.6	55.8	83.8

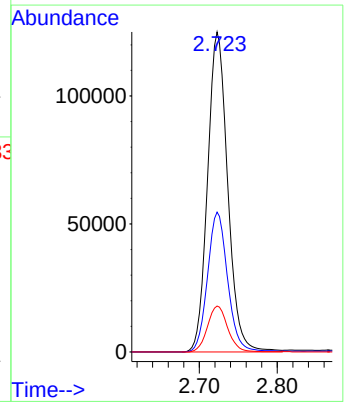




#10
Methyl Iodide
Concen: 102.594 ug/l
RT: 2.723 min Scan# 430
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:142 Resp: 224419

Ion	Ratio	Lower	Upper
142	100		
127	43.8	35.6	53.4
141	14.4	11.3	16.9



Instrument :
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ClientSampleId :
VSTDICC100

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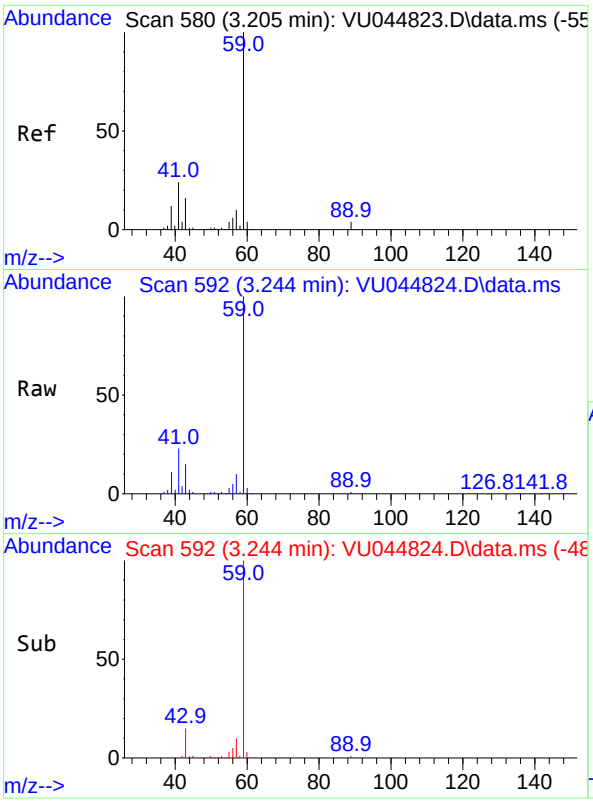
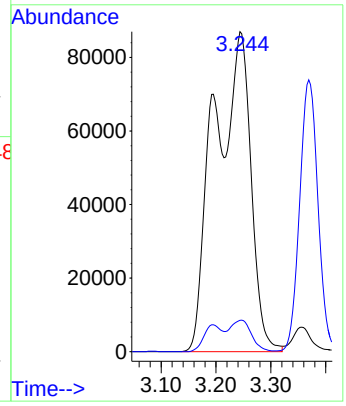
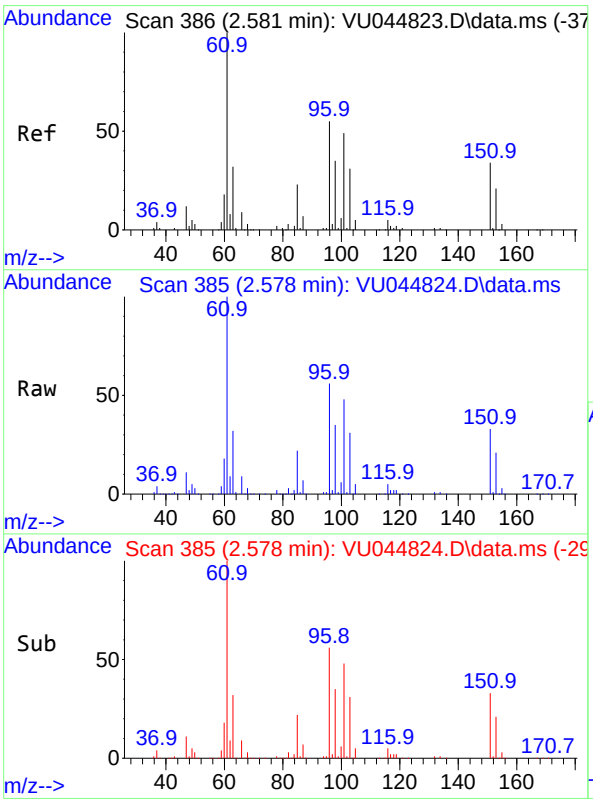


#11
Tert butyl alcohol
Concen: 575.057 ug/l m
RT: 3.244 min Scan# 592
Delta R.T. 0.039 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 59 Resp: 398884

Ion	Ratio	Lower	Upper
59	100		
57	4.5	8.3	12.5#

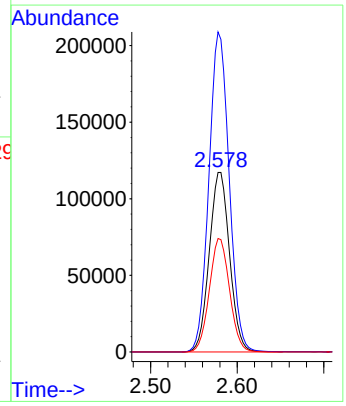




#12
1,1-Dichloroethene
Concen: 99.424 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 96 Resp: 191251

Ion	Ratio	Lower	Upper
96	100		
61	178.2	145.4	218.0
98	63.2	50.9	76.3



Instrument :
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ClientSampleId :
VSTDICC100

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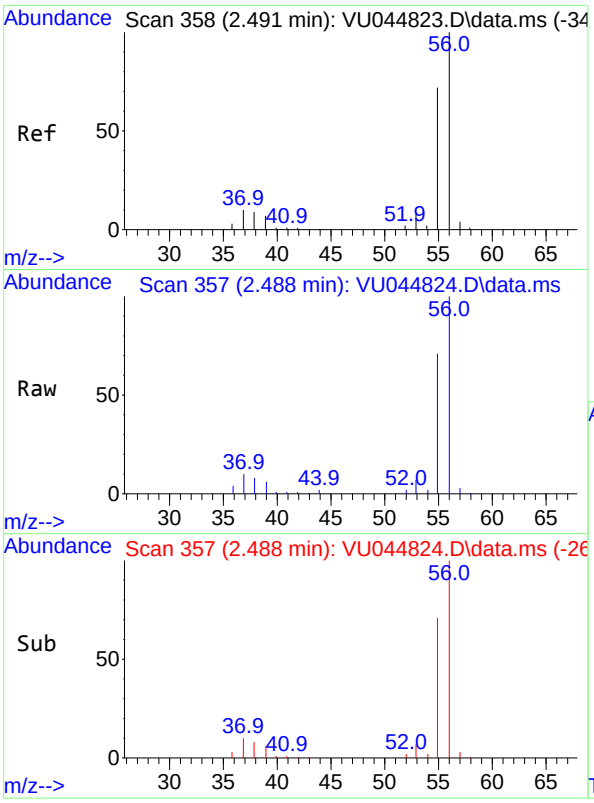
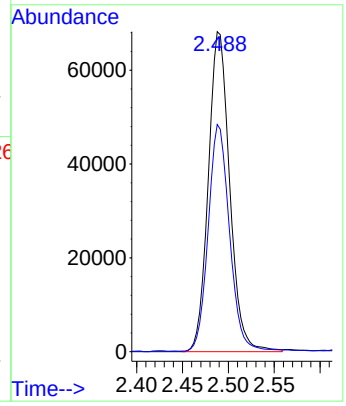
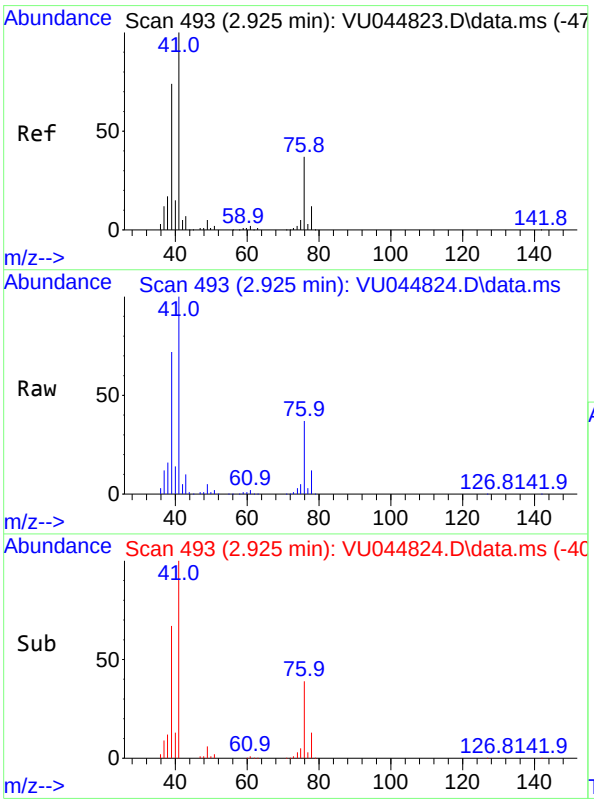


#13
Acrolein
Concen: 308.701 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 56 Resp: 110715

Ion	Ratio	Lower	Upper
56	100		
55	70.6	57.4	86.0

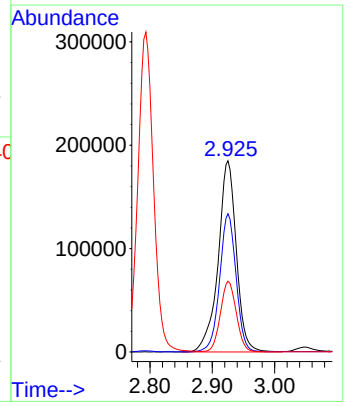




#14
Allyl chloride
Concen: 103.705 ug/l
RT: 2.925 min Scan# 493
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 41 Resp: 374884

Ion	Ratio	Lower	Upper
41	100		
39	65.4	53.0	79.6
76	32.1	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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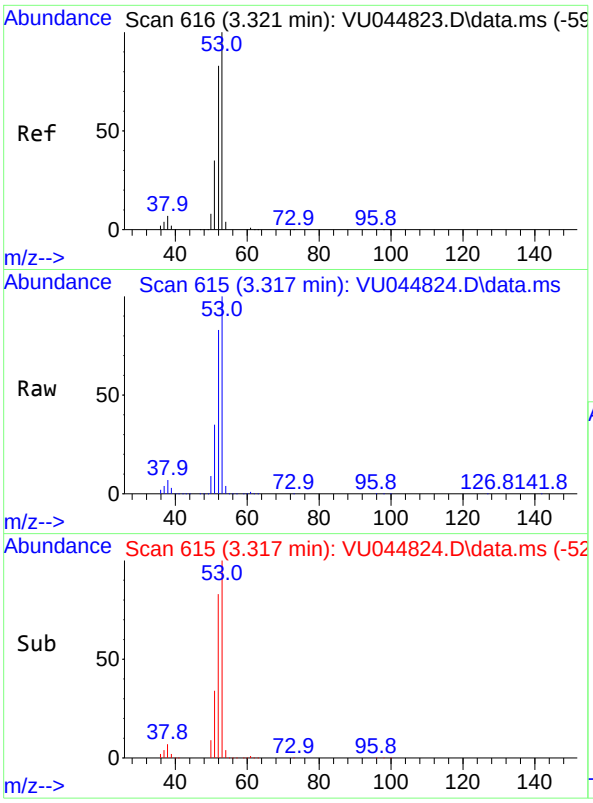
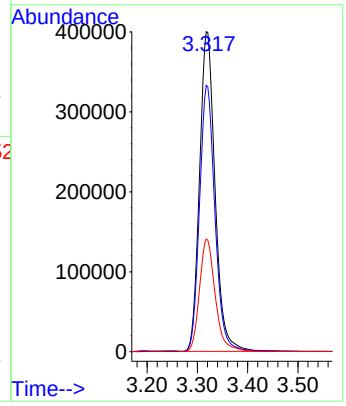
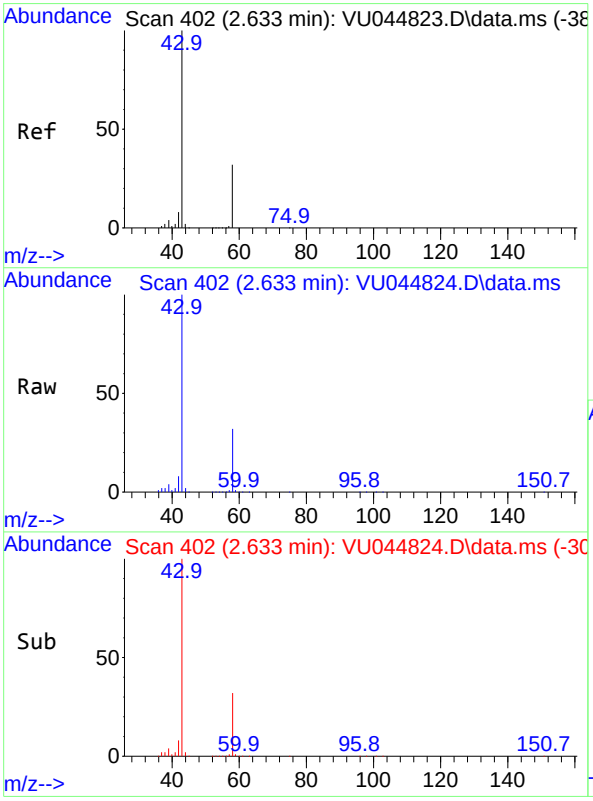


#15
Acrylonitrile
Concen: 598.273 ug/l
RT: 3.317 min Scan# 615
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 53 Resp: 855871

Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.0	99.0
51	35.6	28.6	42.8

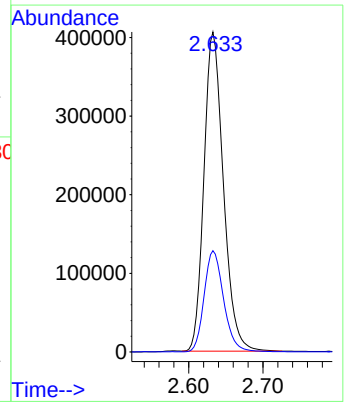




#16
Acetone
Concen: 495.268 ug/l
RT: 2.633 min Scan# 402
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 737165

Ion	Ratio	Lower	Upper
43	100		
58	31.7	25.2	37.8



Instrument :
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ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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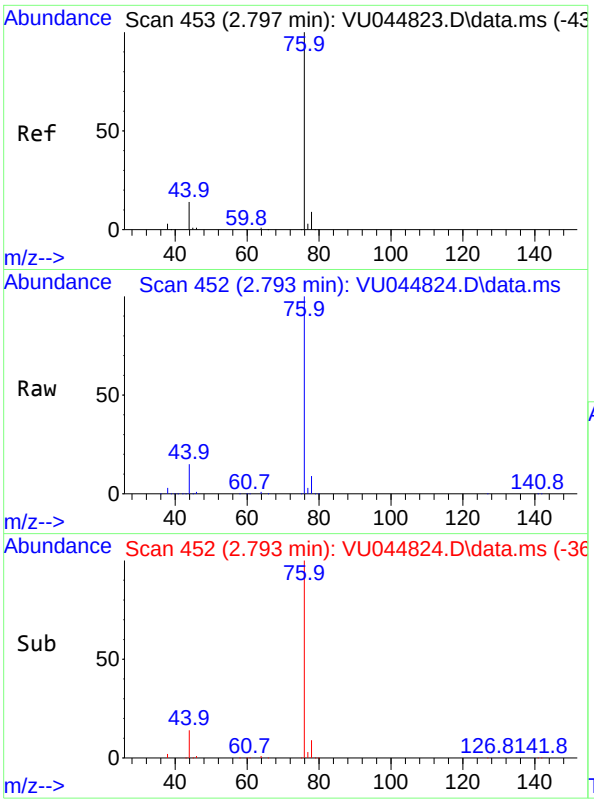
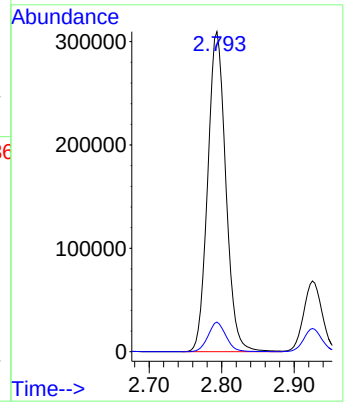
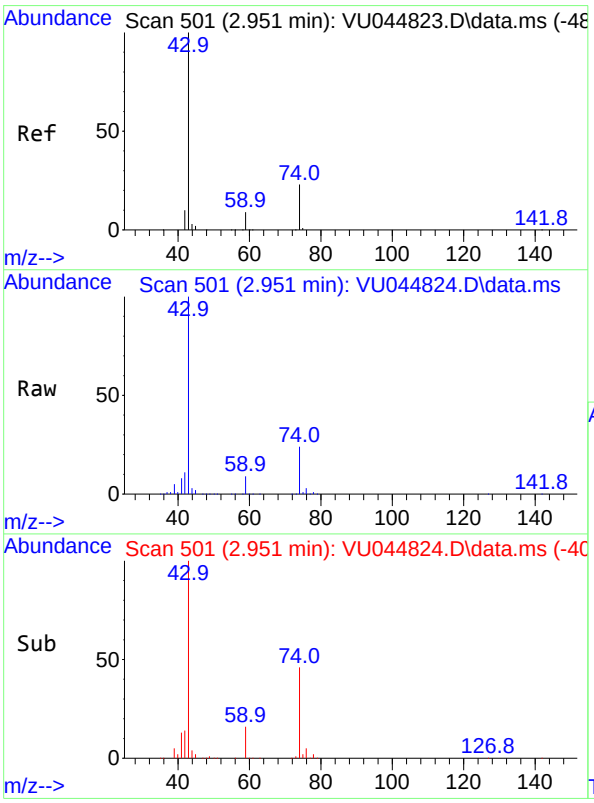


#17
Carbon Disulfide
Concen: 88.448 ug/l
RT: 2.793 min Scan# 452
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 76 Resp: 536476

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

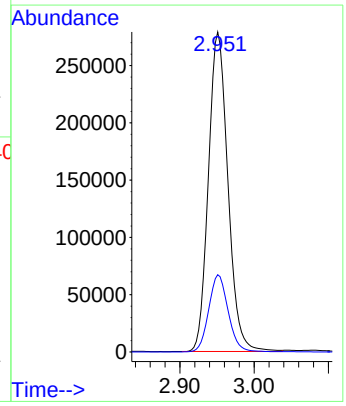




#18
Methyl Acetate
Concen: 145.004 ug/l
RT: 2.951 min Scan# 501
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 508508

Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.0	28.6



Instrument :
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ClientSampleId :
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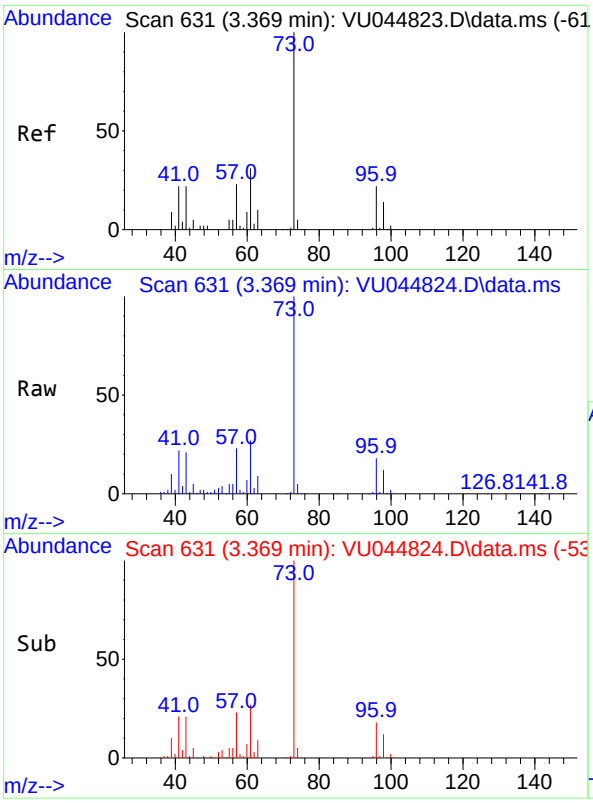
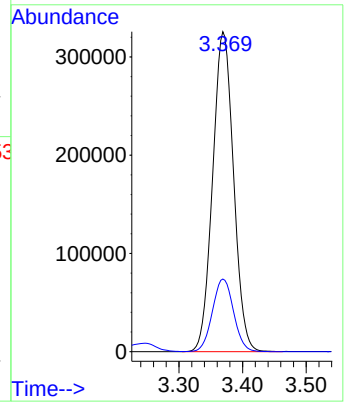
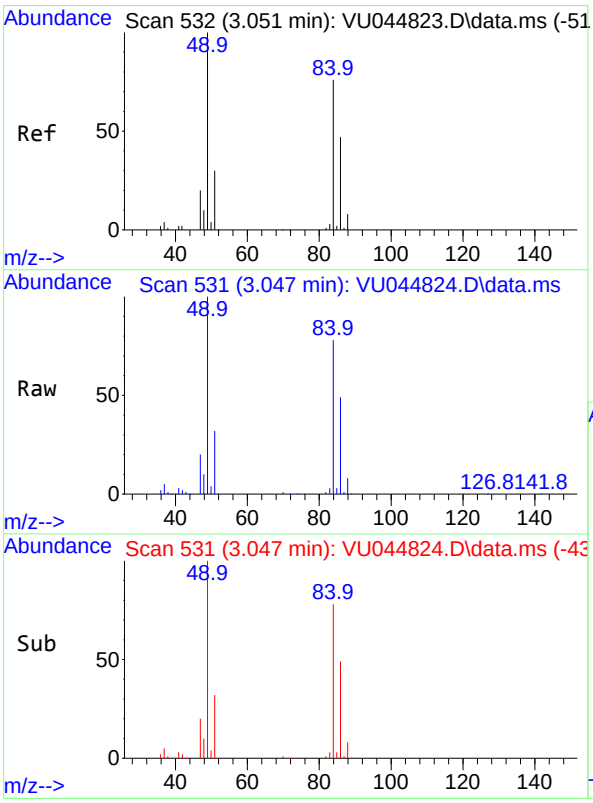


#19
Methyl tert-butyl Ether
Concen: 122.289 ug/l
RT: 3.369 min Scan# 631
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 73 Resp: 742727

Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.2	27.2

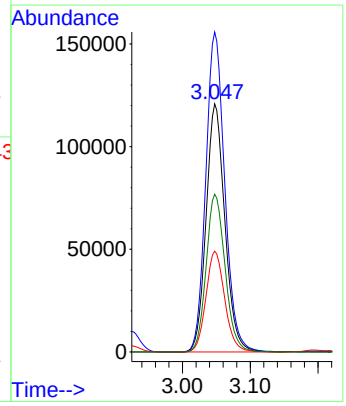




#20
Methylene Chloride
Concen: 92.023 ug/l
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 84 Resp: 232392

Ion	Ratio	Lower	Upper
84	100		
49	128.9	104.9	157.3
51	40.6	31.8	47.8
86	63.6	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
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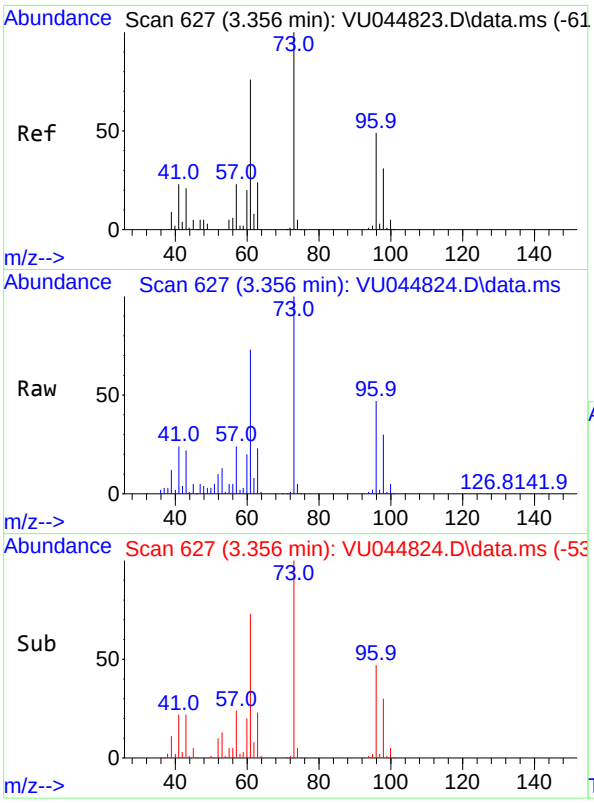
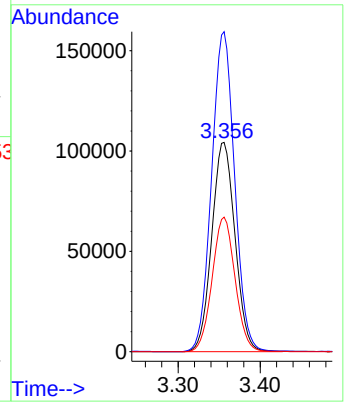
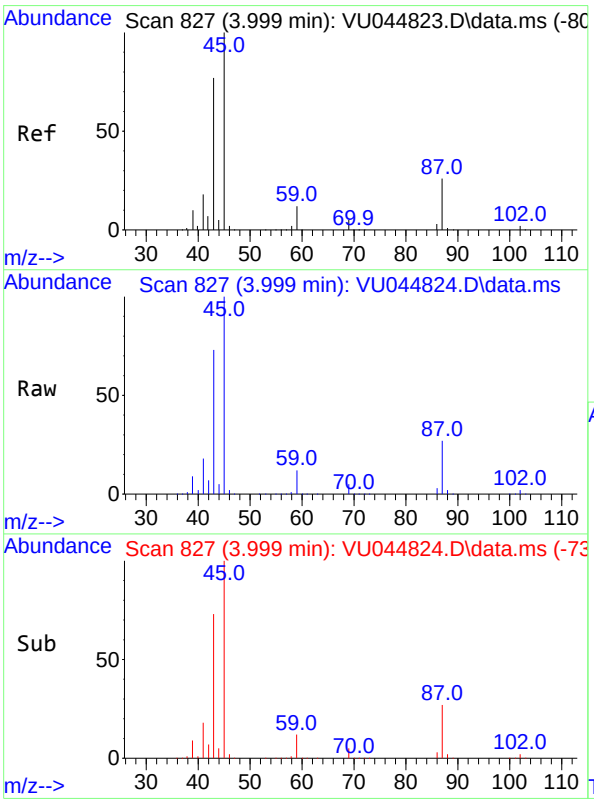


#21
trans-1,2-Dichloroethene
Concen: 97.328 ug/l
RT: 3.356 min Scan# 627
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 96 Resp: 205808

Ion	Ratio	Lower	Upper
96	100		
61	152.9	123.2	184.8
98	64.3	51.0	76.6

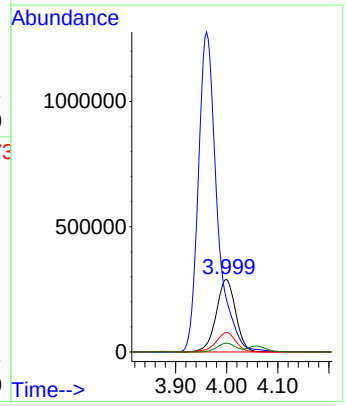




#22
Diisopropyl ether
Concen: 120.404 ug/l
RT: 3.999 min Scan# 827
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 45 Resp: 766111

Ion	Ratio	Lower	Upper
45	100		
43	72.5	62.3	93.5
87	26.8	21.0	31.4
59	12.0	9.5	14.3



Instrument :
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ClientSampleId :
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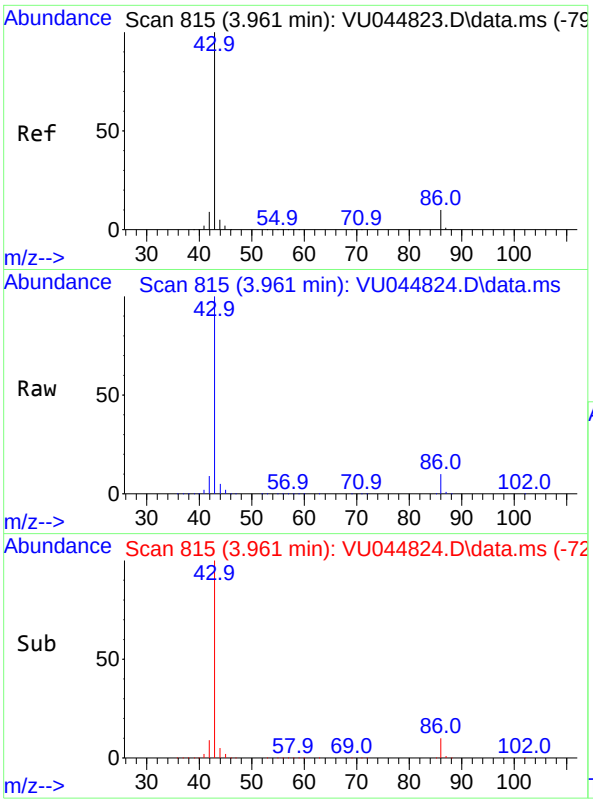
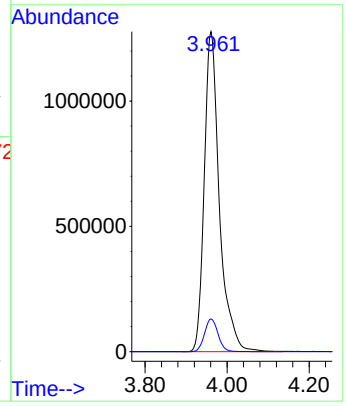
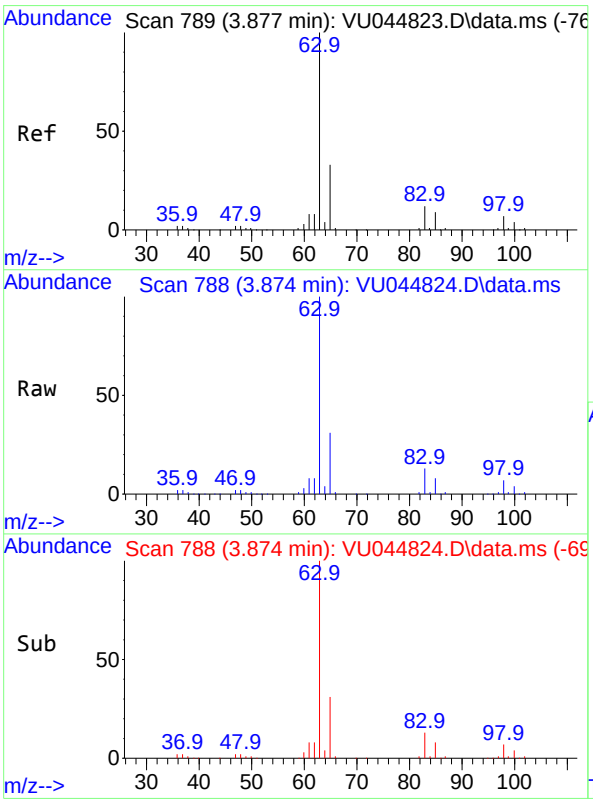


#23
Vinyl Acetate
Concen: 554.675 ug/l
RT: 3.961 min Scan# 815
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 3262242

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.4

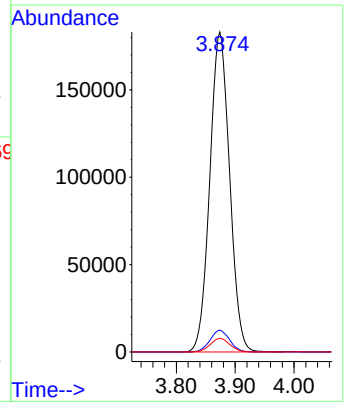




#24
1,1-Dichloroethane
Concen: 103.247 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 63 Resp: 428028

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.4
100	4.3	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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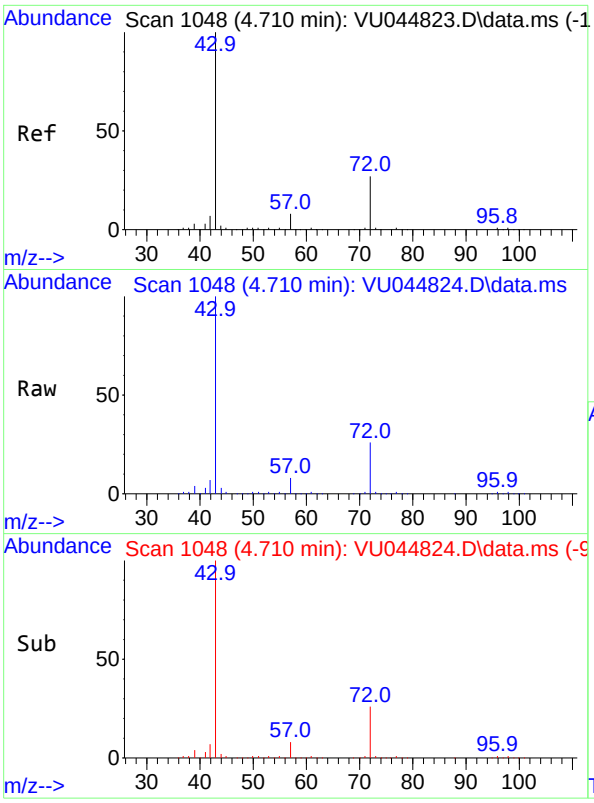
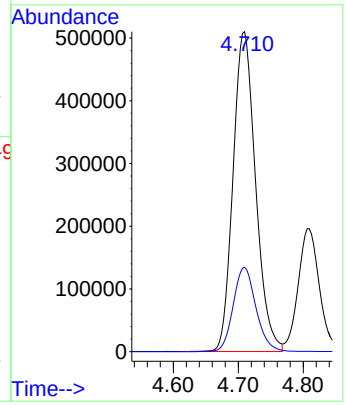
9/27/2021 11:02:46 AM

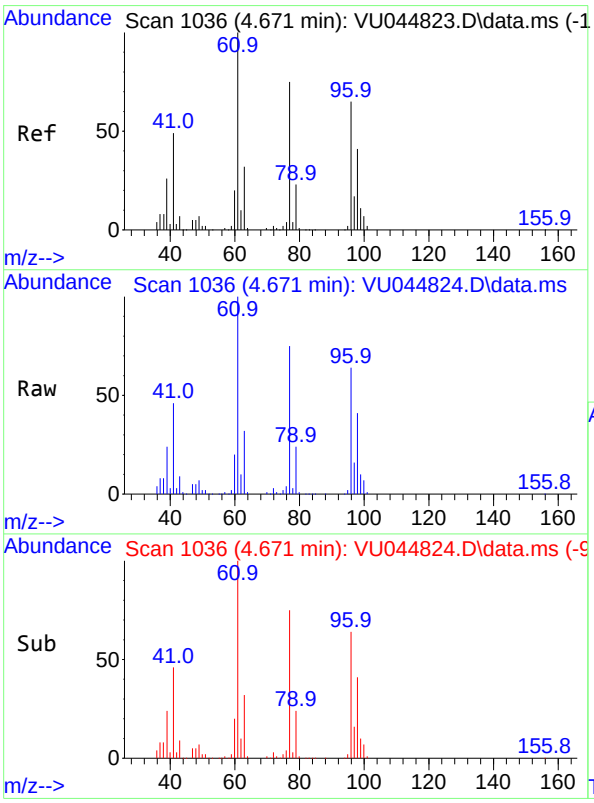


#25
2-Butanone
Concen: 577.523 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 1229065

Ion	Ratio	Lower	Upper
43	100		
72	26.4	21.3	31.9

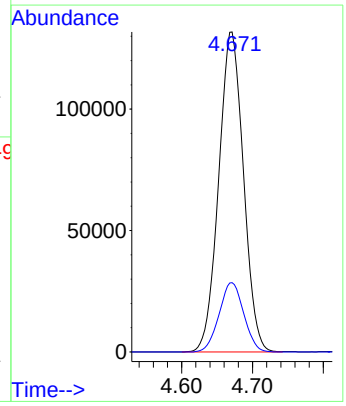




#26
2,2-Dichloropropane
Concen: 98.506 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 77 Resp: 319212

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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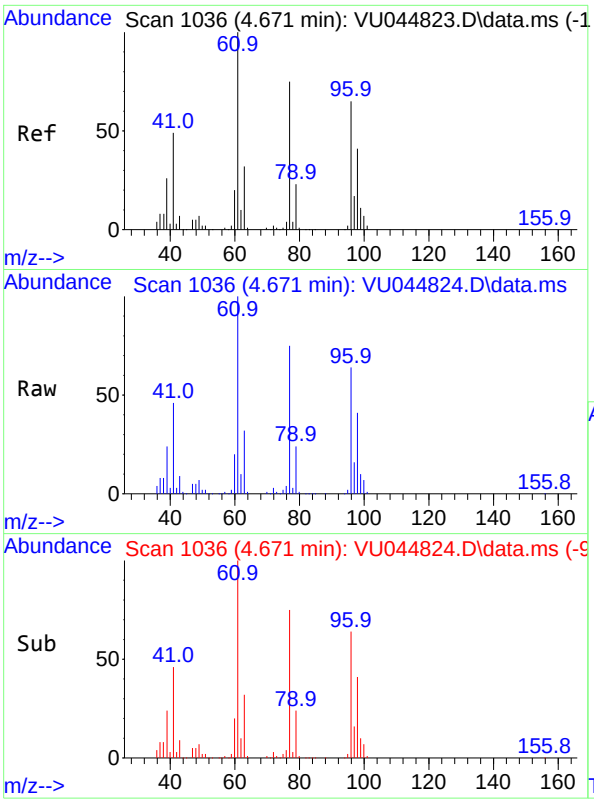
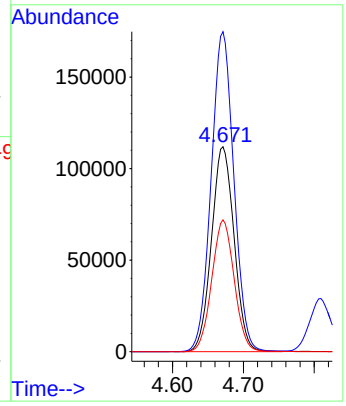
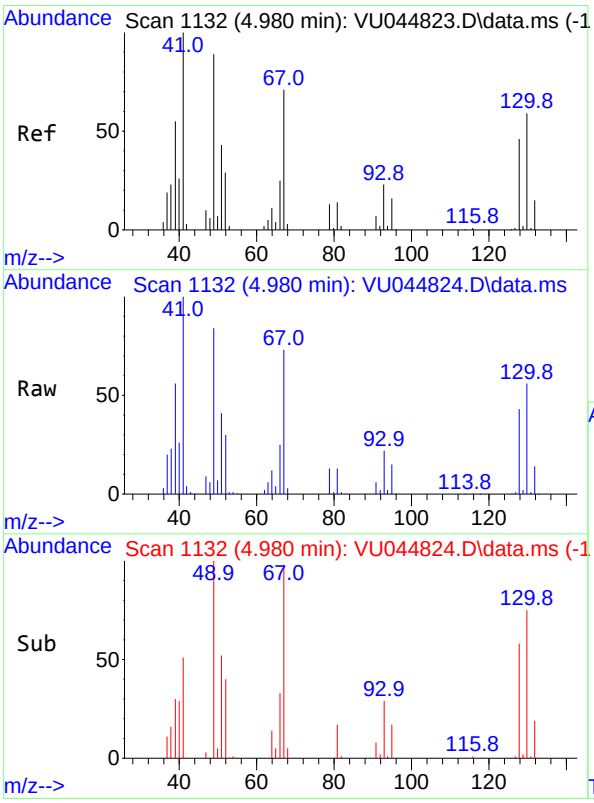


#27
cis-1,2-Dichloroethene
Concen: 103.933 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 96 Resp: 248148

Ion	Ratio	Lower	Upper
96	100		
61	156.4	0.0	313.4
98	63.9	0.0	127.0

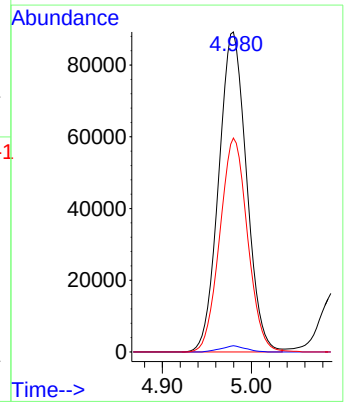




#28
Bromochloromethane
Concen: 97.937 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 49 Resp: 193123

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	66.9	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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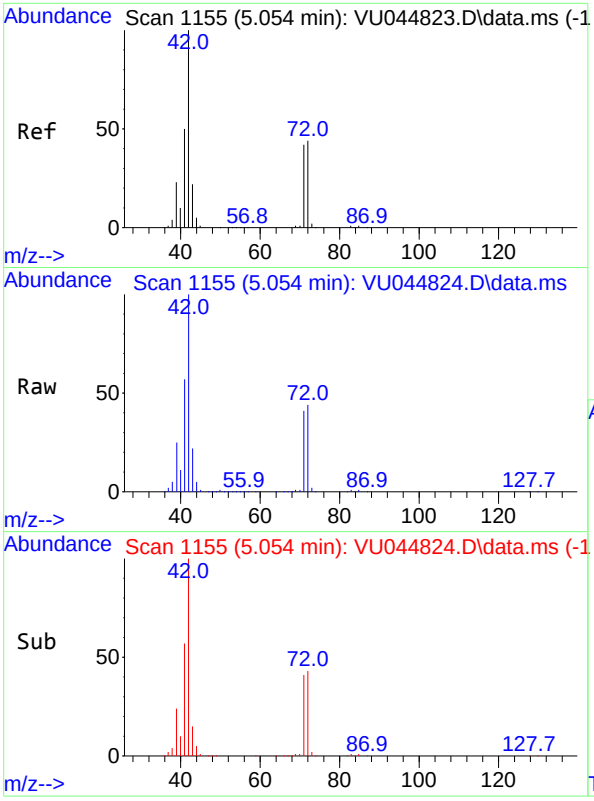
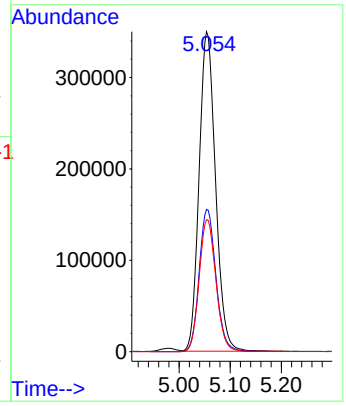
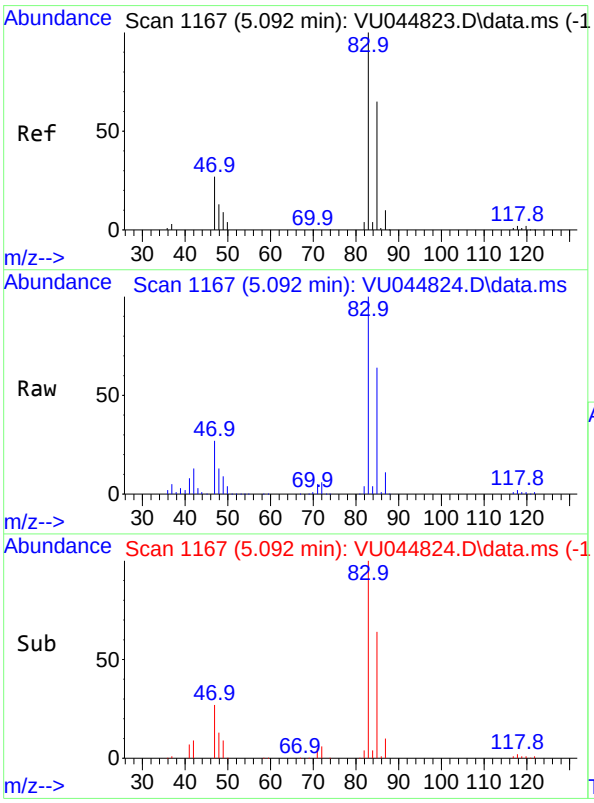


#29
Tetrahydrofuran
Concen: 656.763 ug/l
RT: 5.054 min Scan# 1155
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 42 Resp: 779571

Ion	Ratio	Lower	Upper
42	100		
72	45.6	36.2	54.4
71	42.1	34.1	51.1

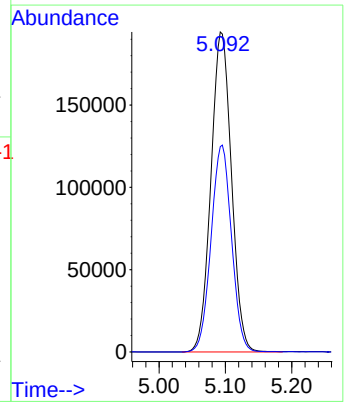




#30
Chloroform
Concen: 103.233 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 83 Resp: 417997

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1



Instrument :
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ClientSampleId :
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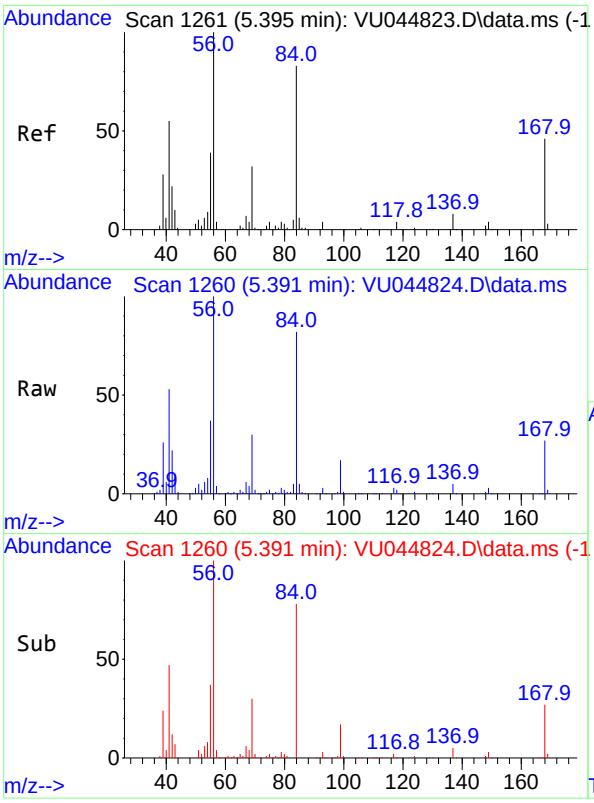
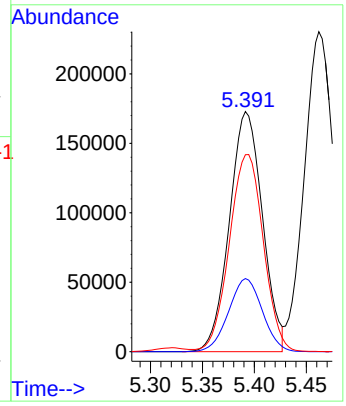
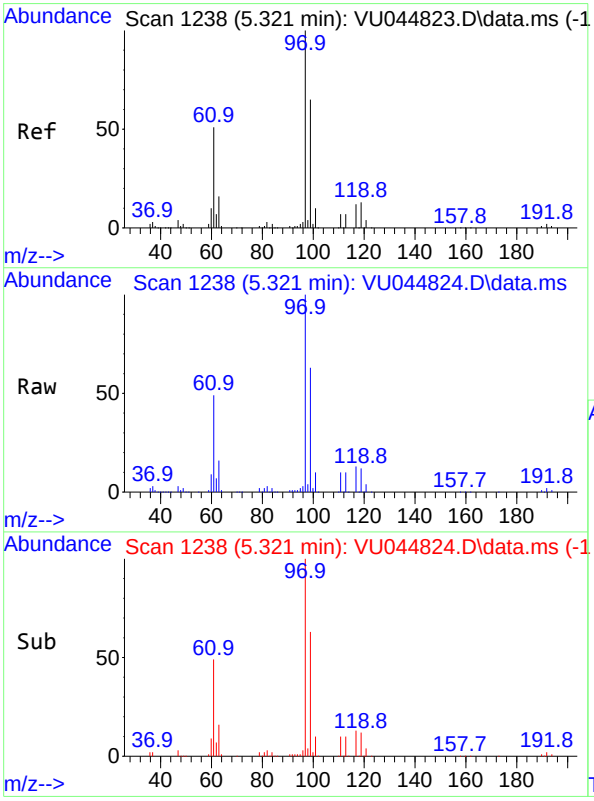


#31
Cyclohexane
Concen: 106.619 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 56 Resp: 383019

Ion	Ratio	Lower	Upper
56	100		
69	30.4	25.2	37.8
84	80.8	66.4	99.6

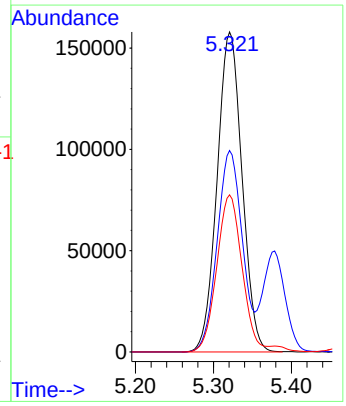




#32
1,1,1-Trichloroethane
Concen: 104.652 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 97 Resp: 351476

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.9	76.3
61	49.8	40.7	61.1



Instrument :
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ClientSampleId :
VSTDICC100

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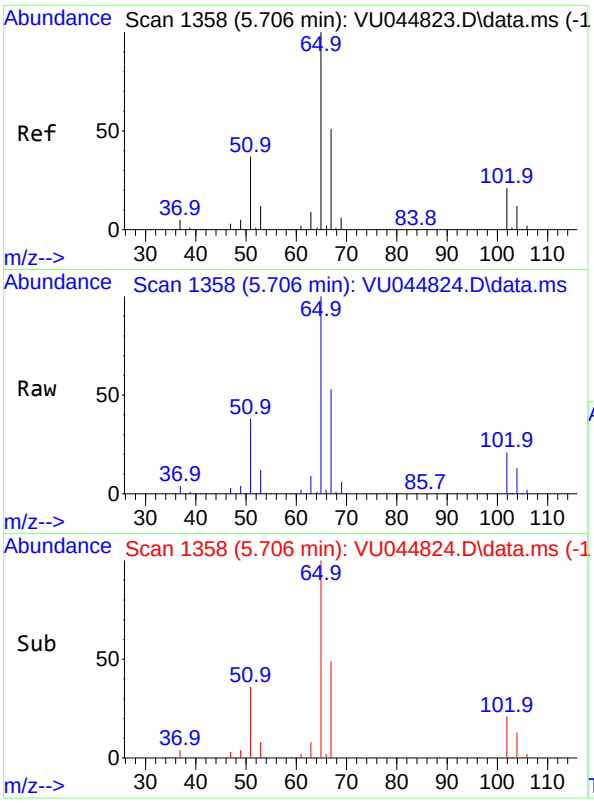
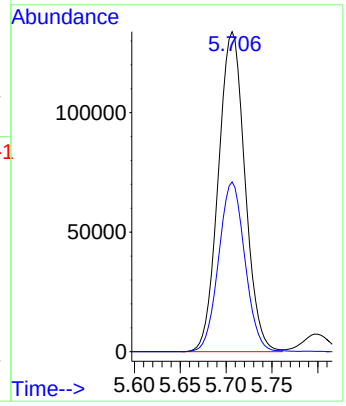
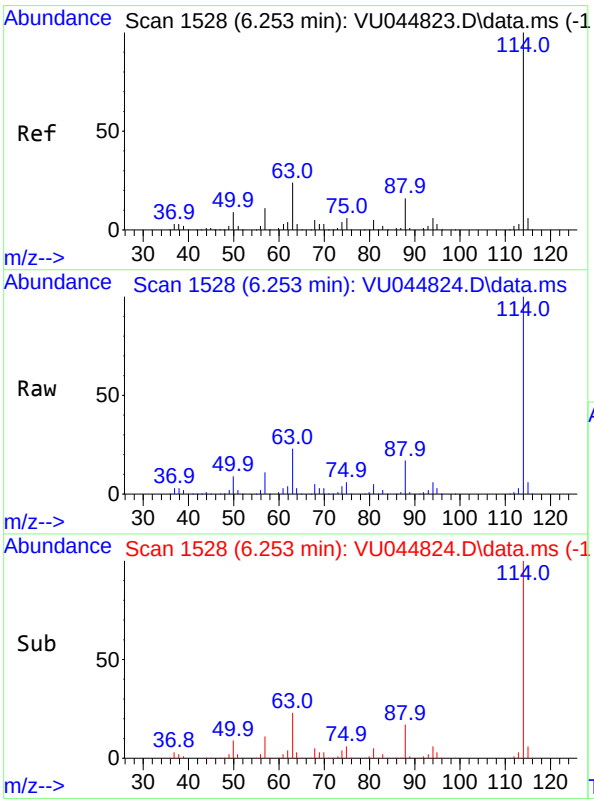


#33
1,2-Dichloroethane-d4
Concen: 106.738 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 65 Resp: 270144

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.8

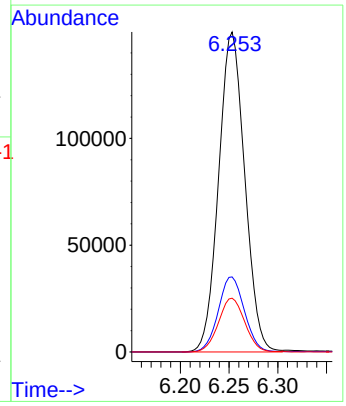




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:114 Resp: 278968

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	47.8
88	16.8	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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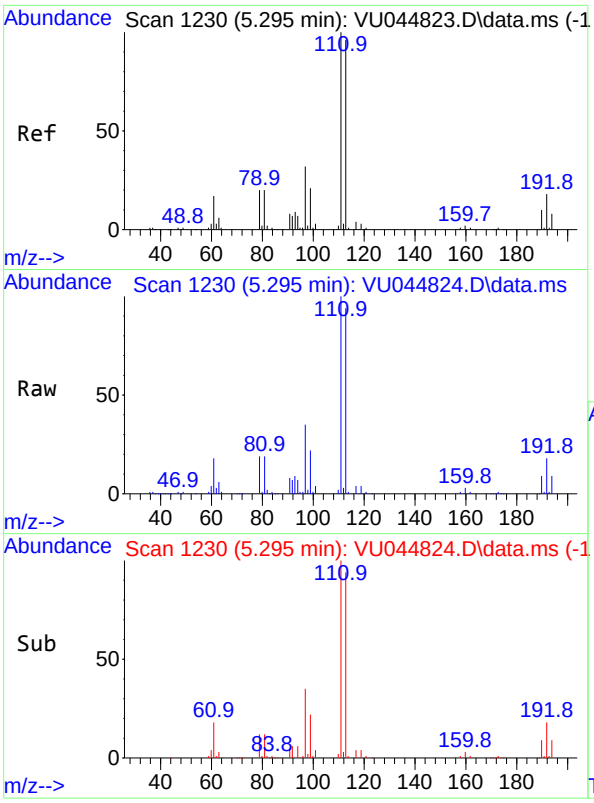
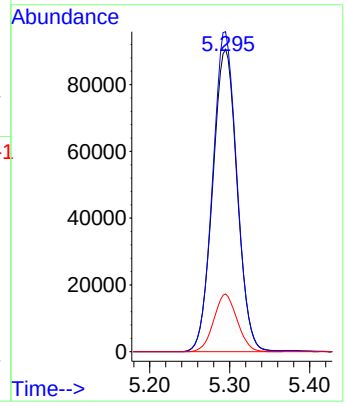
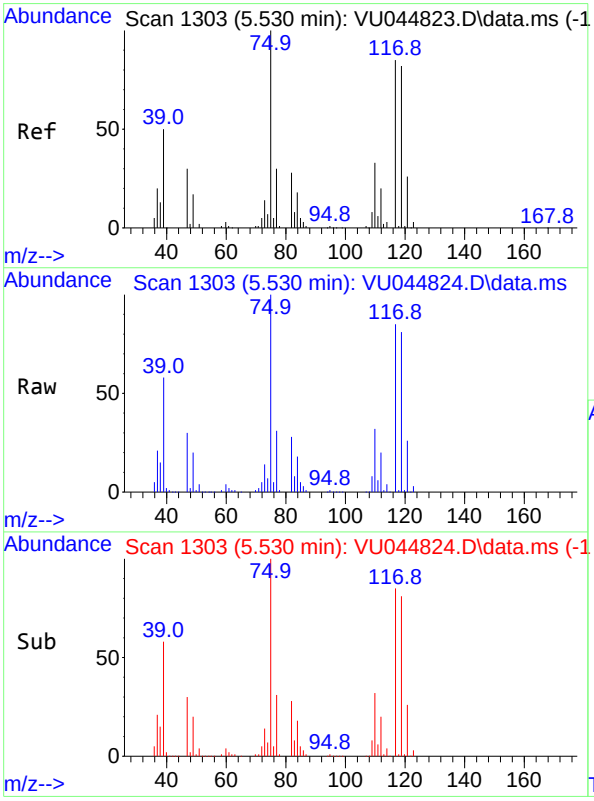


#35
Dibromofluoromethane
Concen: 99.487 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:113 Resp: 192505

Ion	Ratio	Lower	Upper
113	100		
111	104.0	84.1	126.1
192	18.2	14.8	22.2

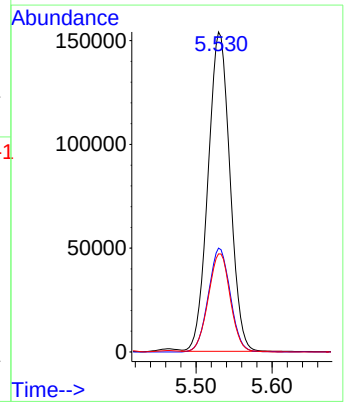




#36
1,1-Dichloropropene
Concen: 98.957 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 75 Resp: 307334

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.3	48.9
77	31.1	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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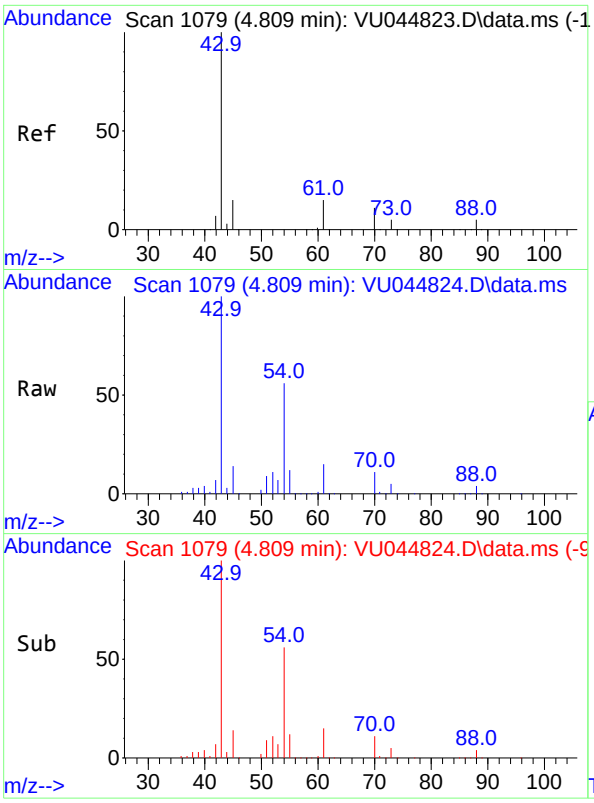
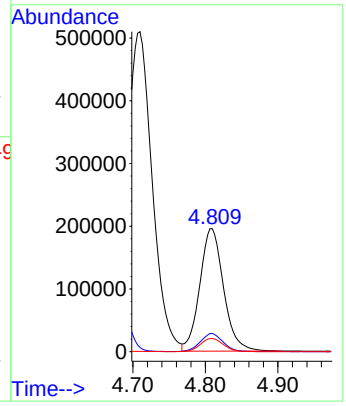
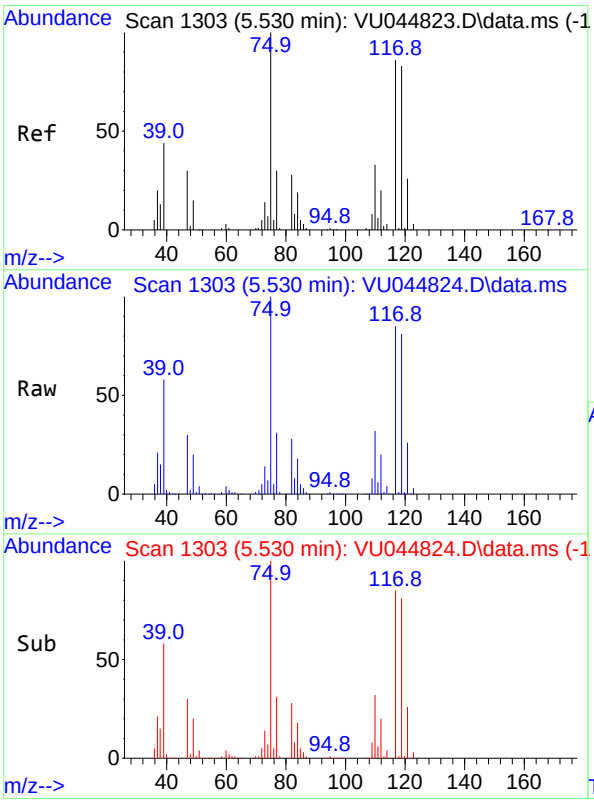


#37
Ethyl Acetate
Concen: 116.029 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 445158

Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.9	16.3
70	10.5	8.2	12.4

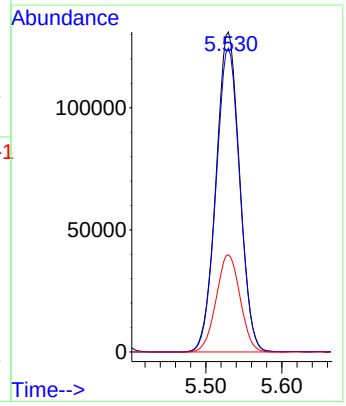




#38
Carbon Tetrachloride
Concen: 100.512 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:117 Resp: 281982

Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.4	116.2
121	30.4	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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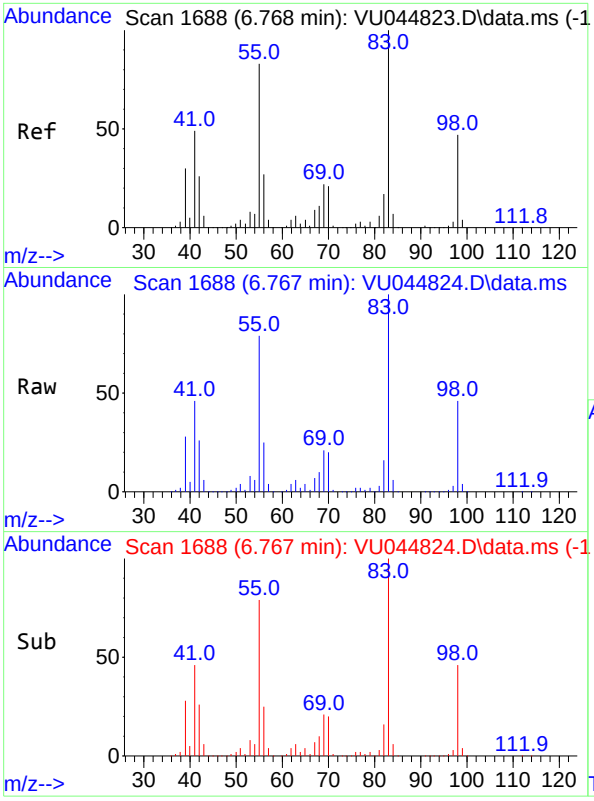
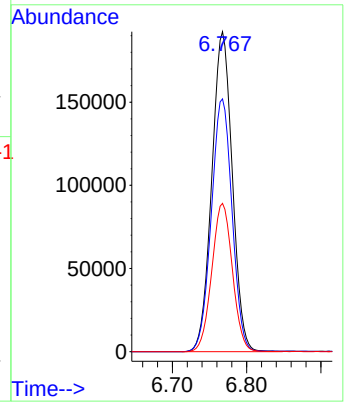
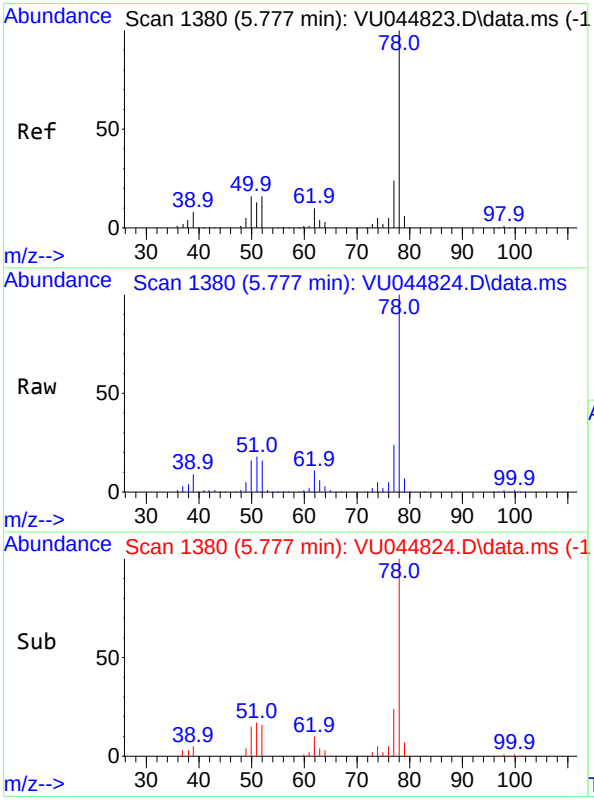


#39
Methylcyclohexane
Concen: 109.833 ug/l
RT: 6.767 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 83 Resp: 369014

Ion	Ratio	Lower	Upper
83	100		
55	79.0	66.2	99.4
98	46.4	37.5	56.3

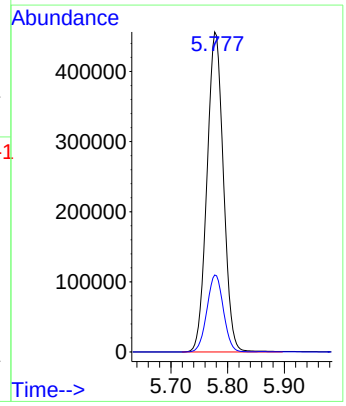




#40
Benzene
Concen: 99.876 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 78 Resp: 920516

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.1	28.7



Instrument :
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ClientSampleId :
VSTDICC100

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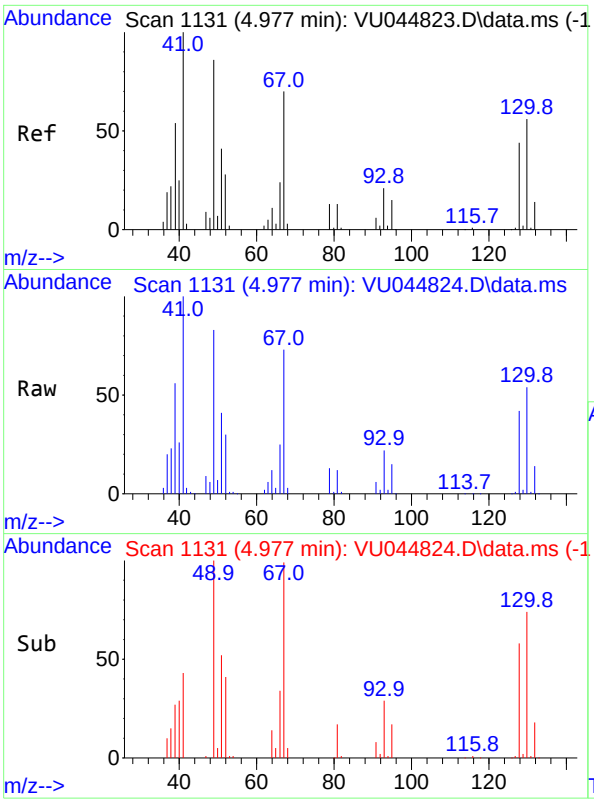
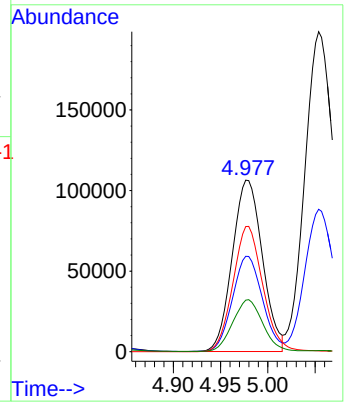
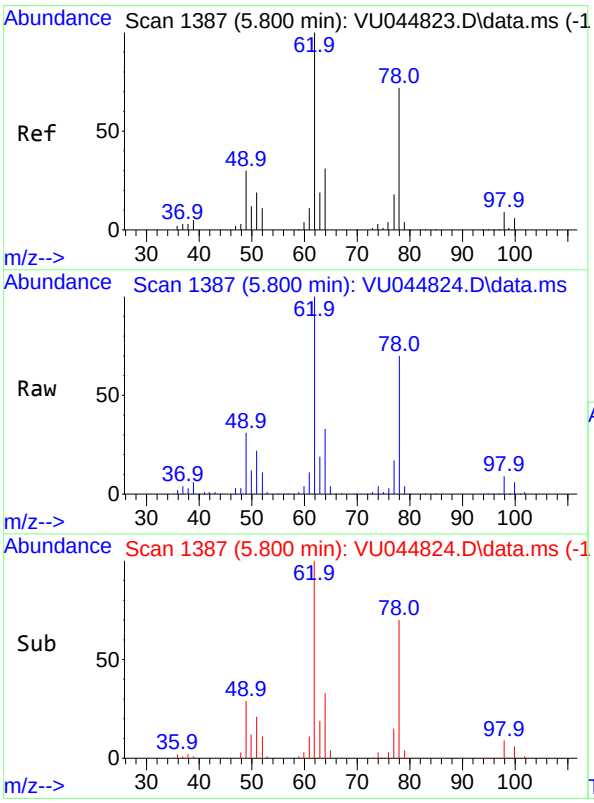


#41
Methacrylonitrile
Concen: 120.410 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 41 Resp: 235712

Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.4	66.6
67	73.1	58.1	87.1
52	30.0	23.8	35.8

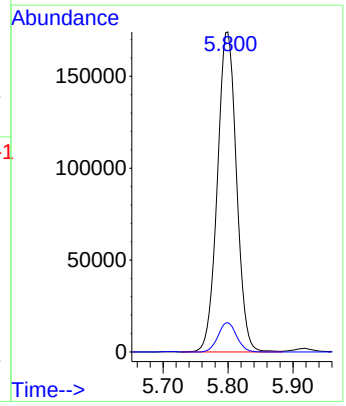




#42
1,2-Dichloroethane
Concen: 107.188 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 62 Resp: 355379

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
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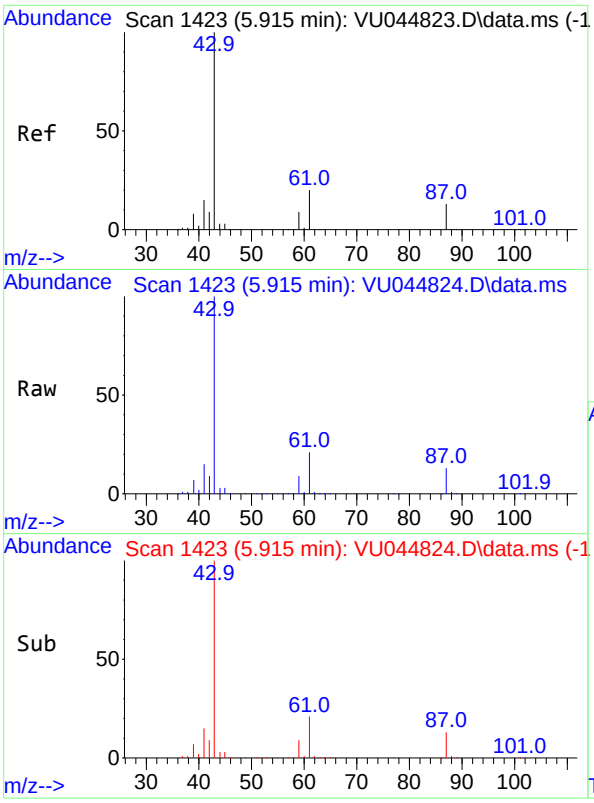
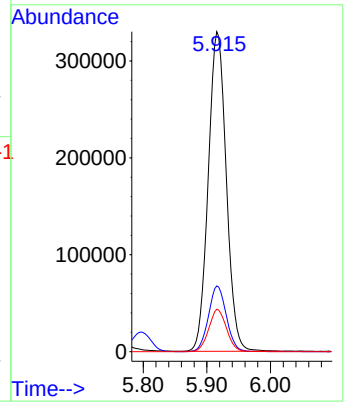
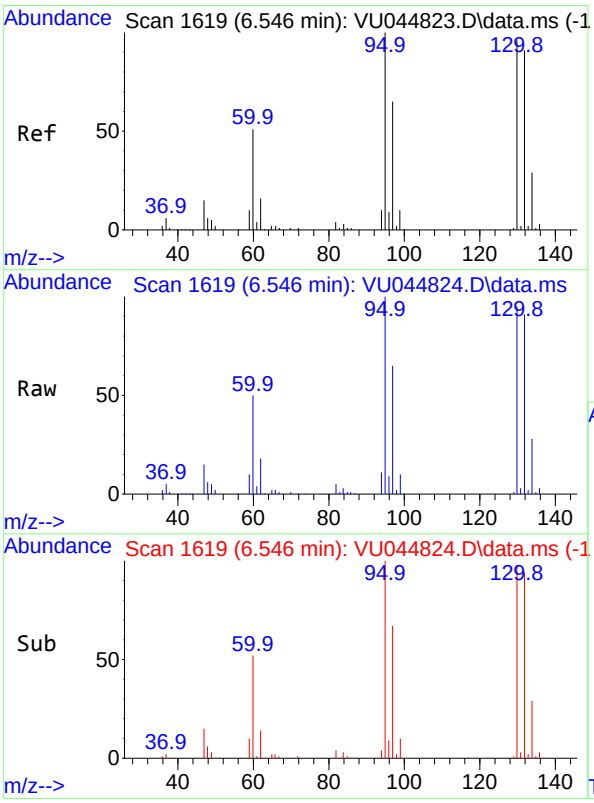


#43
Isopropyl Acetate
Concen: 119.693 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 648911

Ion	Ratio	Lower	Upper
43	100		
61	20.4	16.1	24.1
87	13.1	10.3	15.5

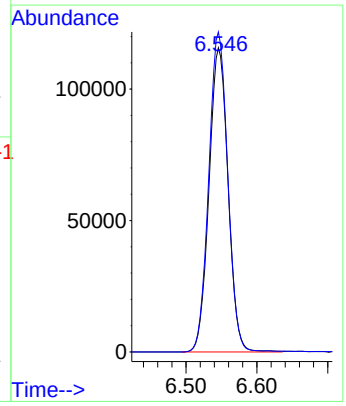




#44
Trichloroethene
Concen: 101.301 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:130 Resp: 215574

Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	209.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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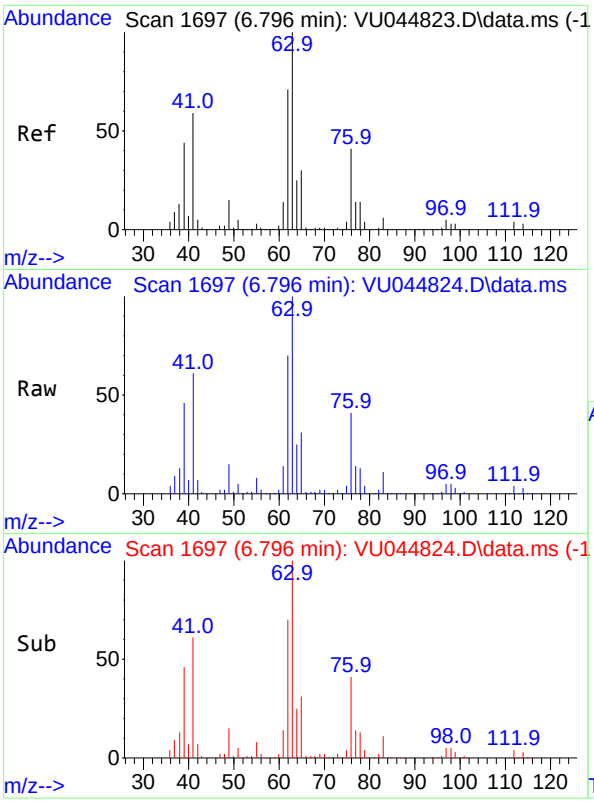
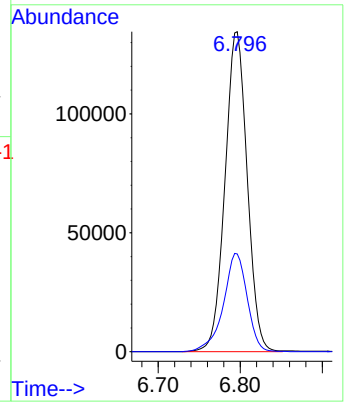
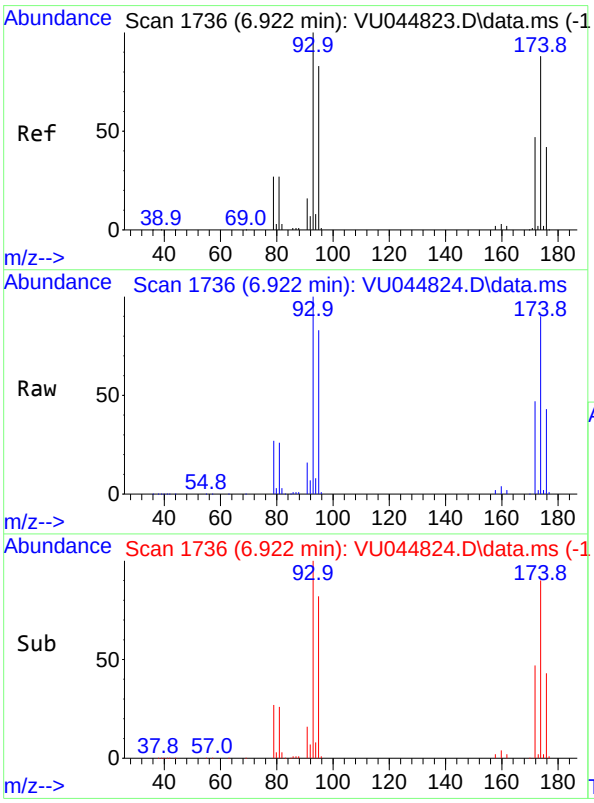


#45
1,2-Dichloropropane
Concen: 100.122 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 63 Resp: 253252

Ion	Ratio	Lower	Upper
63	100		
65	30.6	23.9	35.9

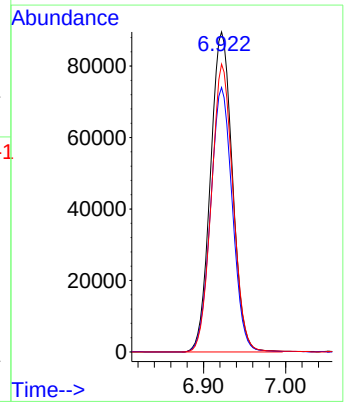




#46
Dibromomethane
Concen: 102.363 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 93 Resp: 166604

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.6	98.4
174	88.6	70.7	106.1



Instrument :
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ClientSampleId :
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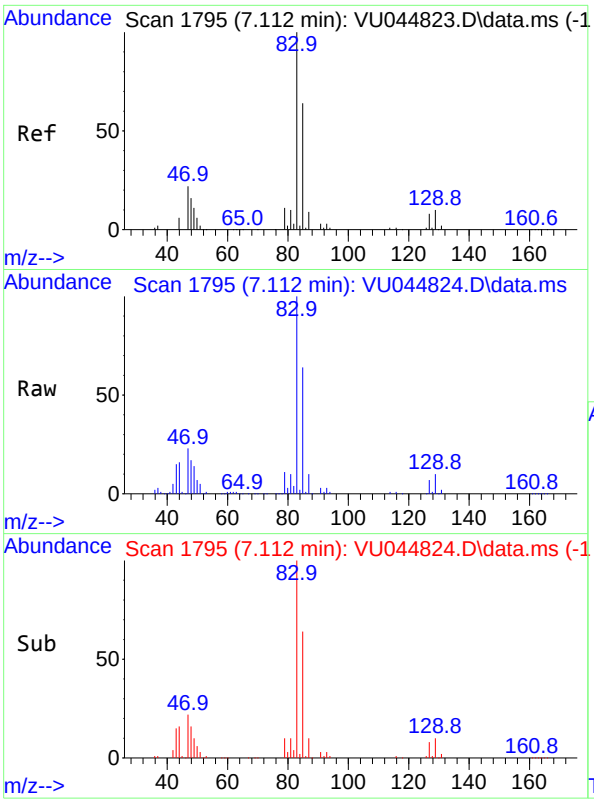
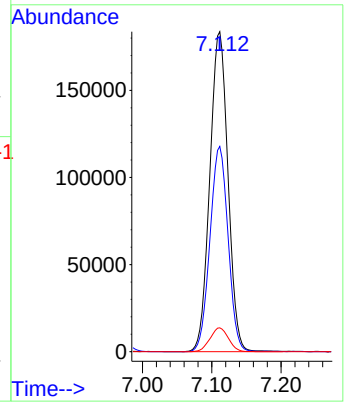
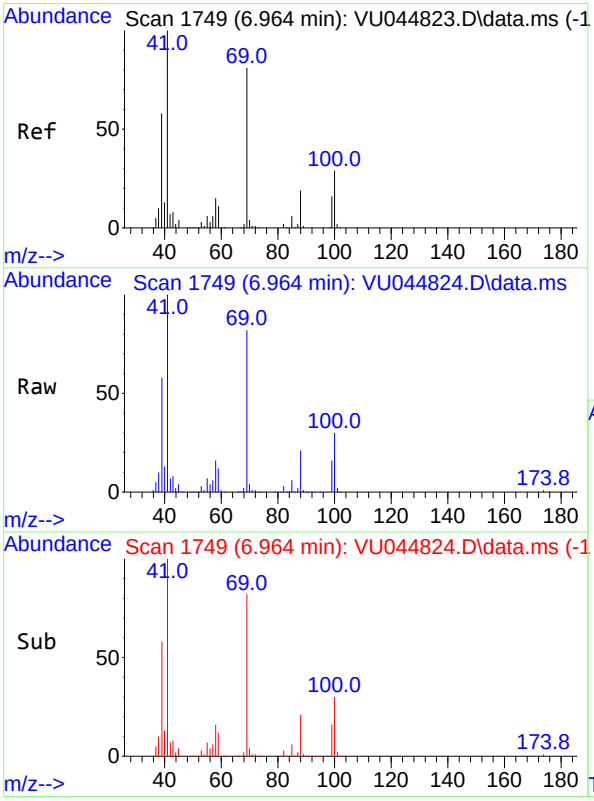


#47
Bromodichloromethane
Concen: 104.392 ug/l
RT: 7.112 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 83 Resp: 333854

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.6	77.4
127	7.5	6.2	9.4

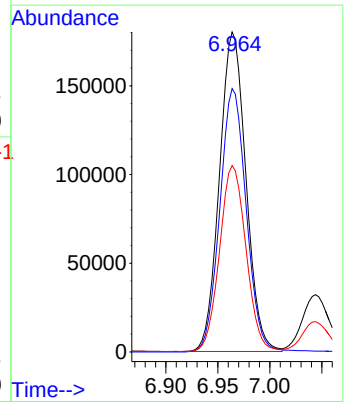




#48
Methyl methacrylate
Concen: 121.069 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 41 Resp: 318845

Ion	Ratio	Lower	Upper
41	100		
69	82.8	65.6	98.4
39	58.1	46.2	69.4



Instrument :
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ClientSampleId :
VSTDICC100

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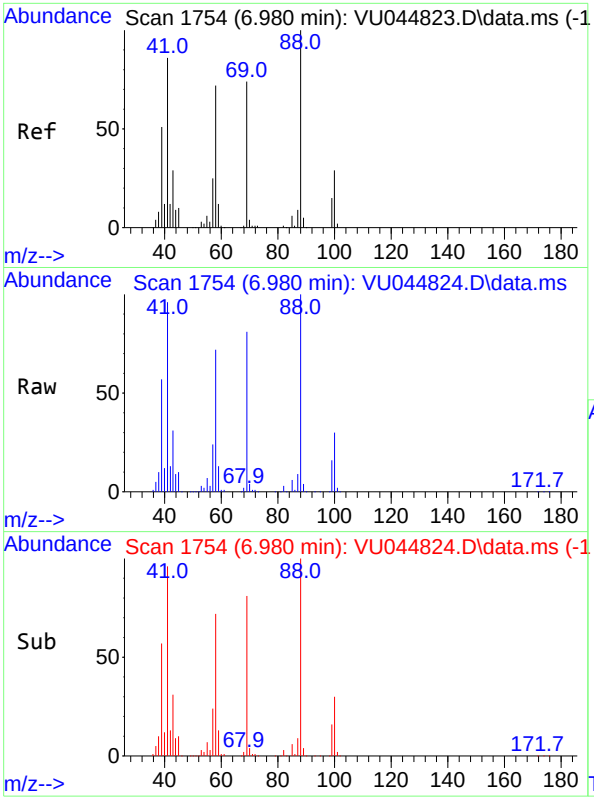
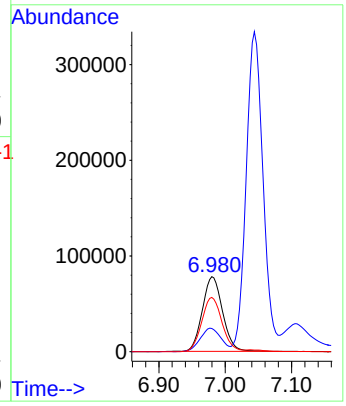
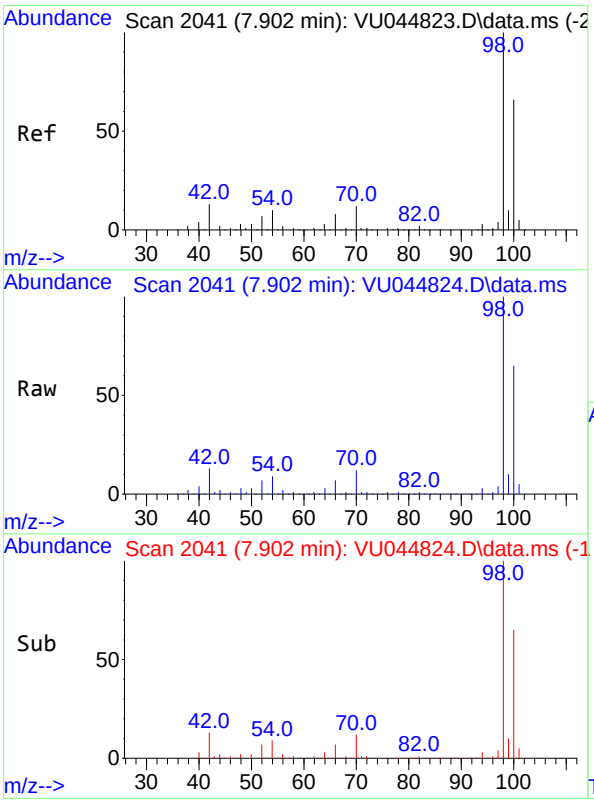


#49
1,4-Dioxane
Concen: 2408.108 ug/l
RT: 6.980 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 88 Resp: 165319

Ion	Ratio	Lower	Upper
88	100		
43	32.8	25.8	38.6
58	73.3	61.3	91.9

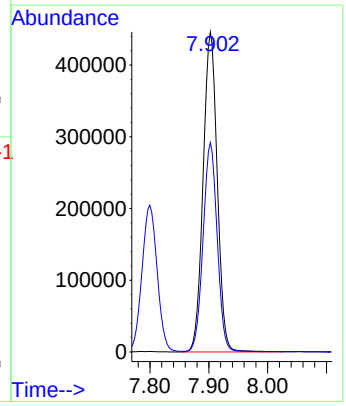




#50
Toluene-d8
Concen: 100.471 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 98 Resp: 746386

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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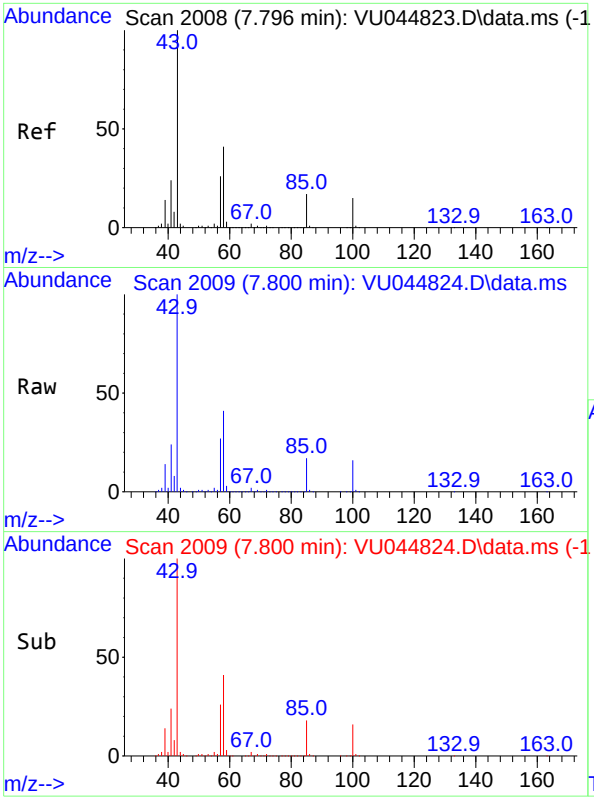
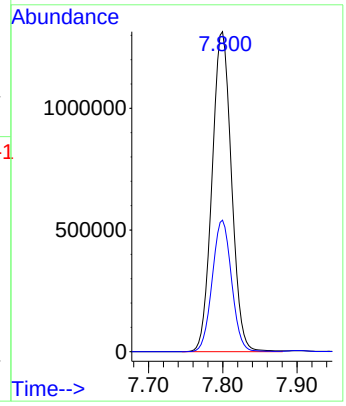
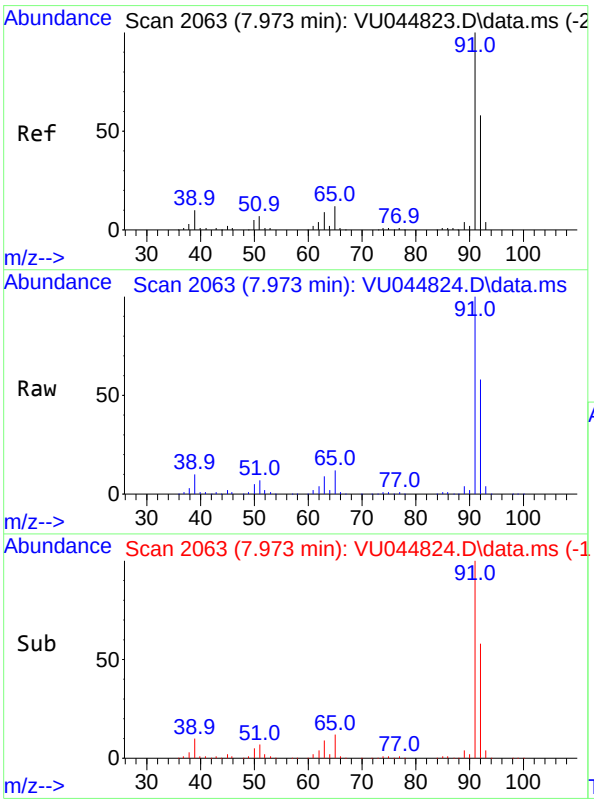


#51
4-Methyl-2-Pentanone
Concen: 610.495 ug/l
RT: 7.800 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 2386886

Ion	Ratio	Lower	Upper
43	100		
58	40.9	32.4	48.6

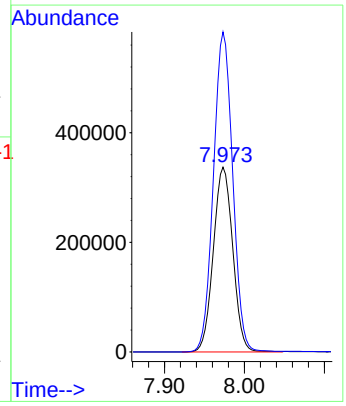




#52
Toluene
Concen: 104.294 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 92 Resp: 569315

Ion	Ratio	Lower	Upper
92	100		
91	171.8	136.9	205.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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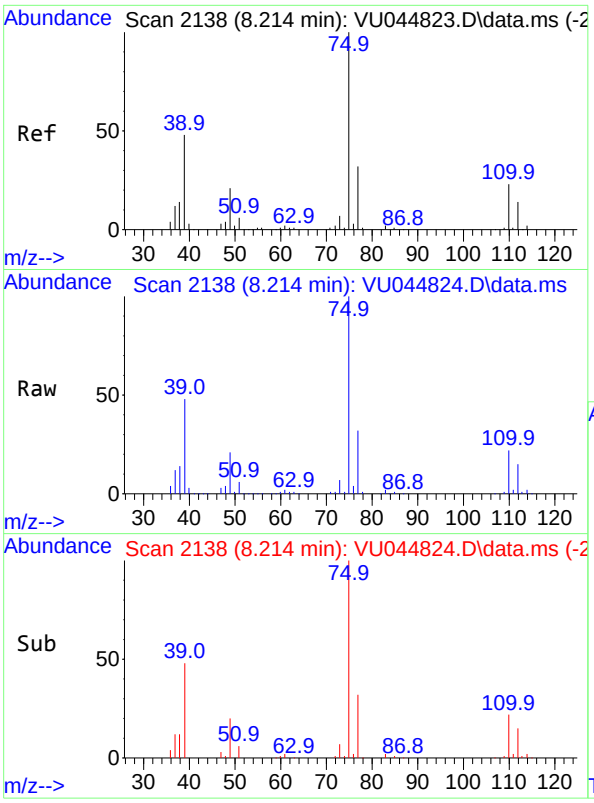
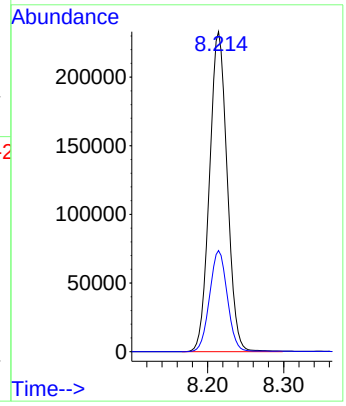
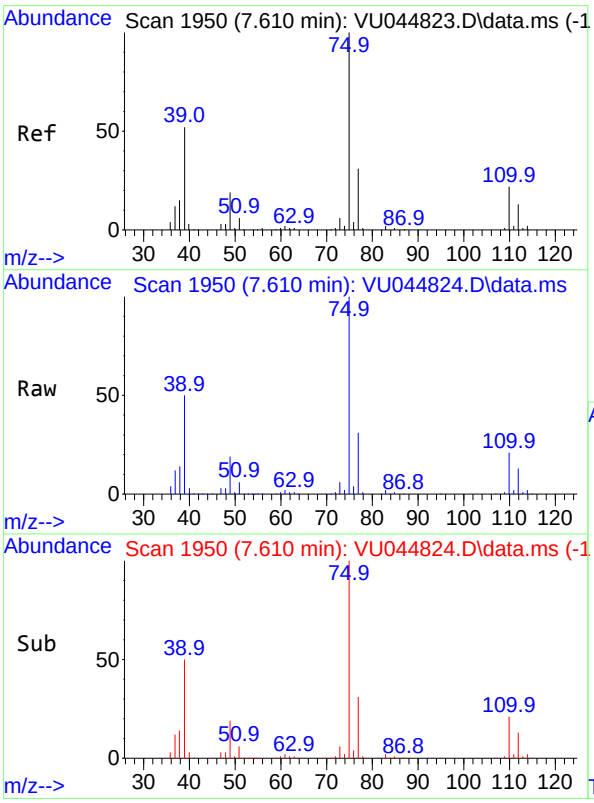


#53
t-1,3-Dichloropropene
Concen: 108.473 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 75 Resp: 376629

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4

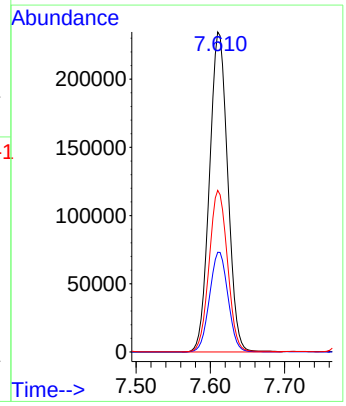




#54
cis-1,3-Dichloropropene
Concen: 106.693 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 75 Resp: 399374

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.6
39	50.4	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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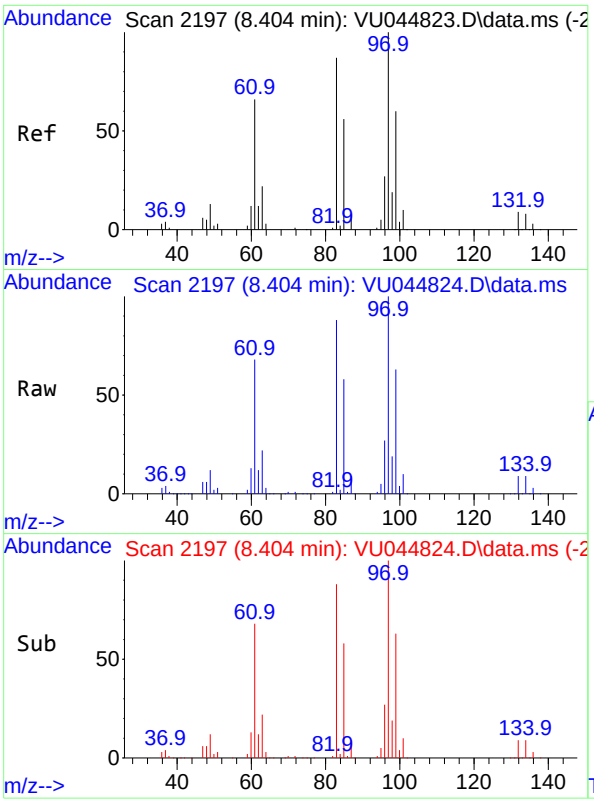
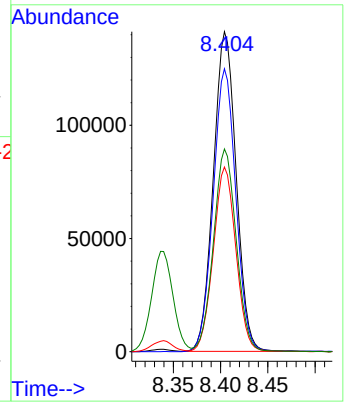
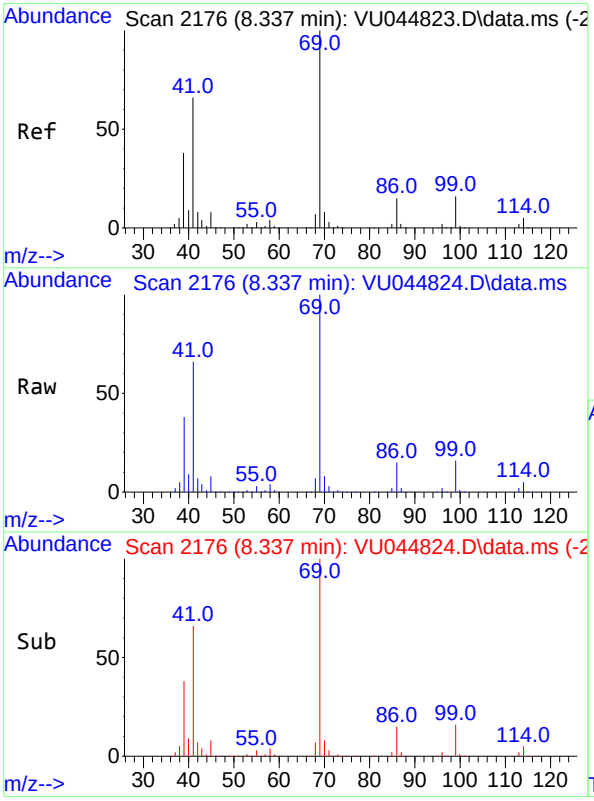


#55
1,1,2-Trichloroethane
Concen: 102.805 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 97 Resp: 236921

Ion	Ratio	Lower	Upper
97	100		
83	88.5	69.7	104.5
85	57.6	44.8	67.2
99	63.2	49.3	73.9

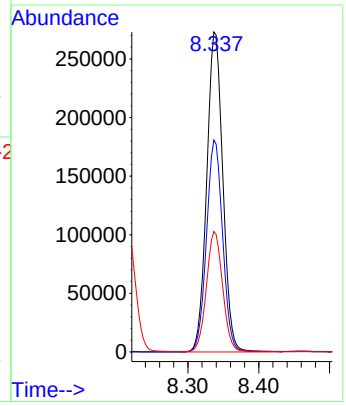




#56
Ethyl methacrylate
Concen: 122.336 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 69 Resp: 431150

Ion	Ratio	Lower	Upper
69	100		
41	66.4	53.5	80.3
39	37.5	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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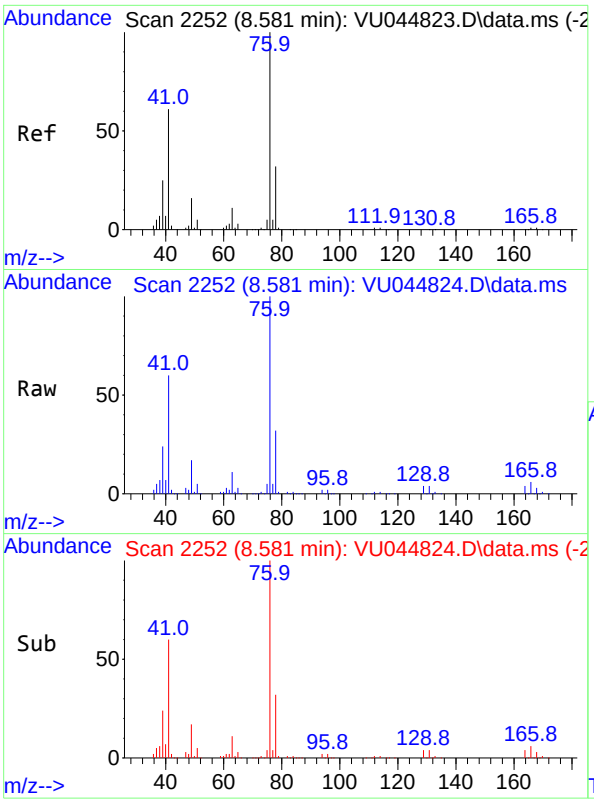
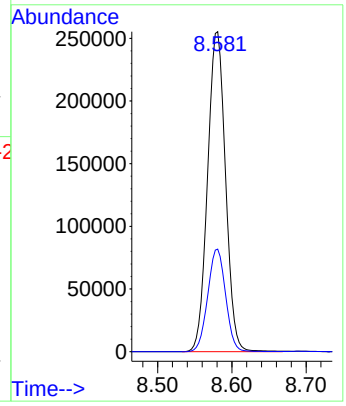
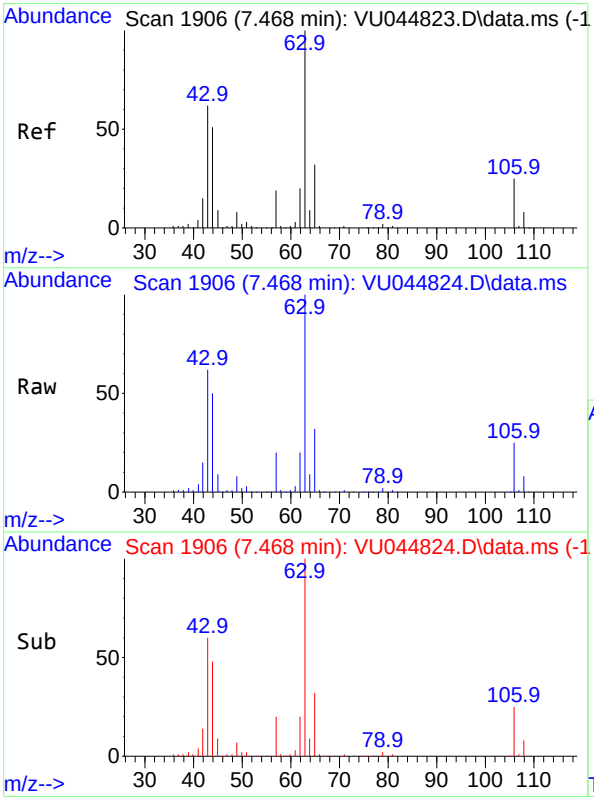


#57
1,3-Dichloropropane
Concen: 104.479 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 76 Resp: 427656

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.7	38.5

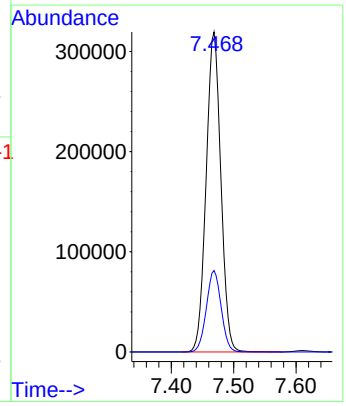




#58
2-Chloroethyl Vinyl ether
Concen: 504.518 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 63 Resp: 523398

Ion	Ratio	Lower	Upper
63	100		
106	25.5	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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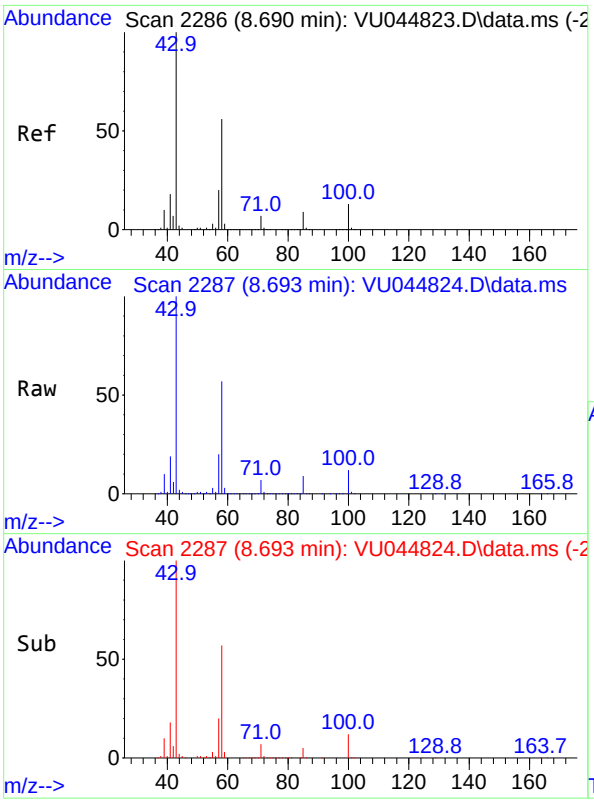
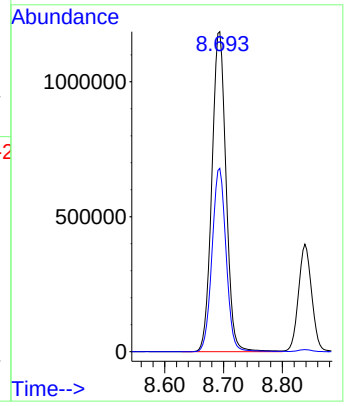
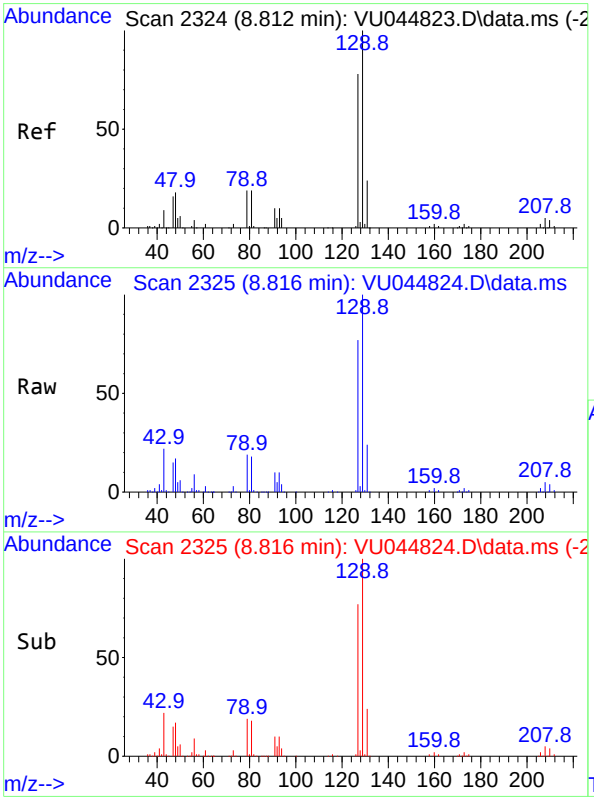


#59
2-Hexanone
Concen: 634.721 ug/l
RT: 8.693 min Scan# 2287
Delta R.T. 0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 1983167

Ion	Ratio	Lower	Upper
43	100		
58	56.9	28.0	84.0

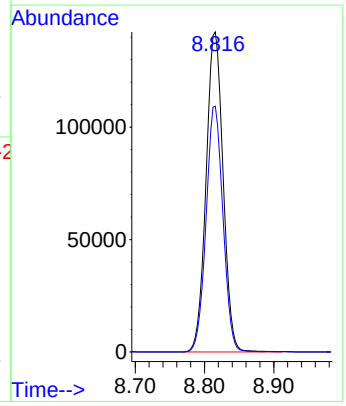




#60
Dibromochloromethane
Concen: 106.540 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:129 Resp: 242613

Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.0	117.0



Instrument :
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ClientSampleId :
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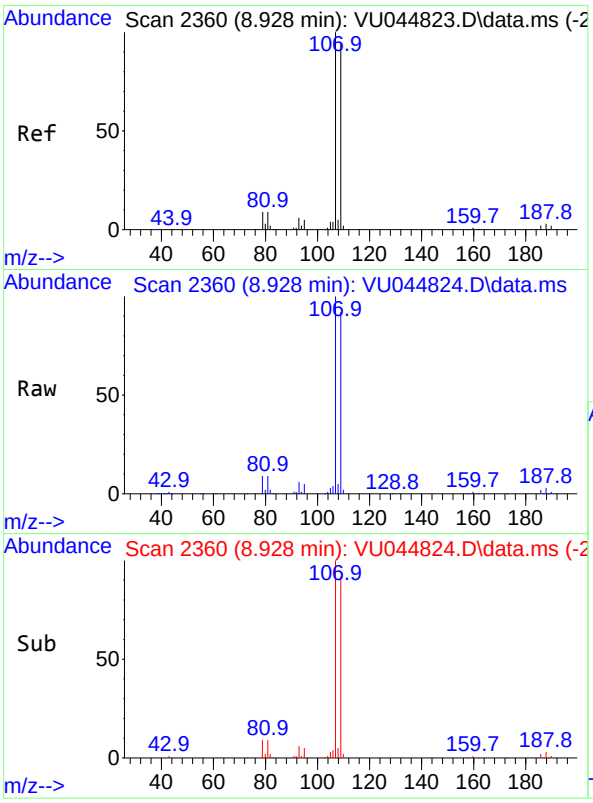
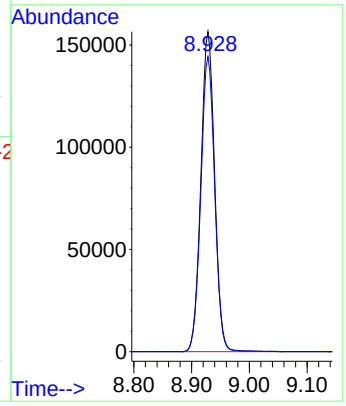
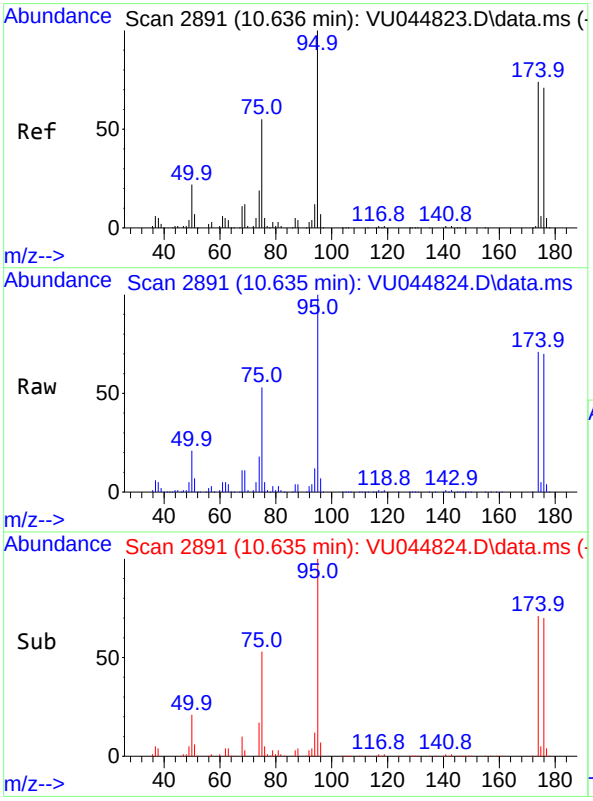


#61
1,2-Dibromoethane
Concen: 106.698 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:107 Resp: 258608

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.8	112.2

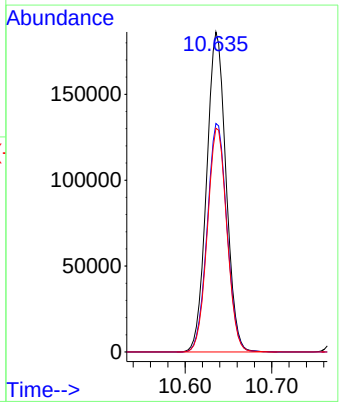




#62
4-Bromofluorobenzene
Concen: 98.879 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 95 Resp: 289339

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	146.6
176	70.4	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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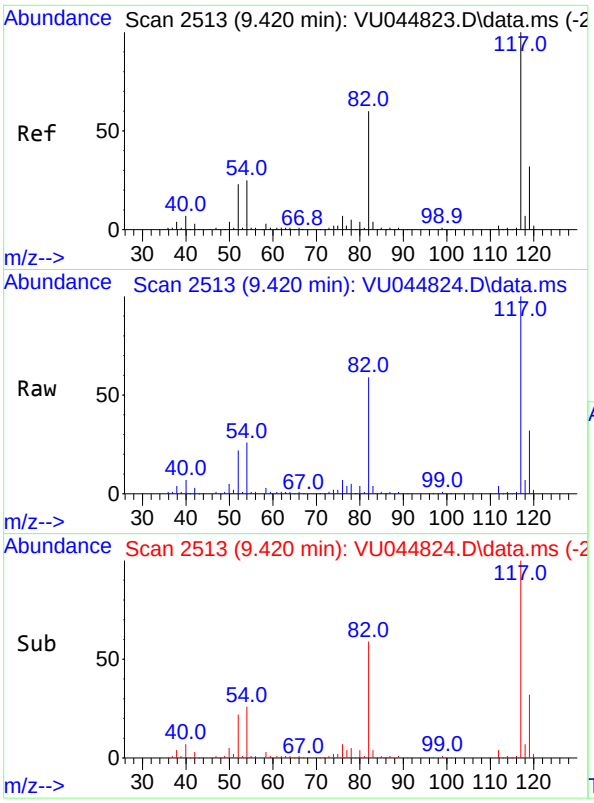
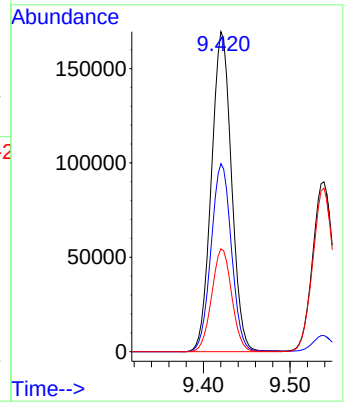
9/27/2021 11:02:46 AM

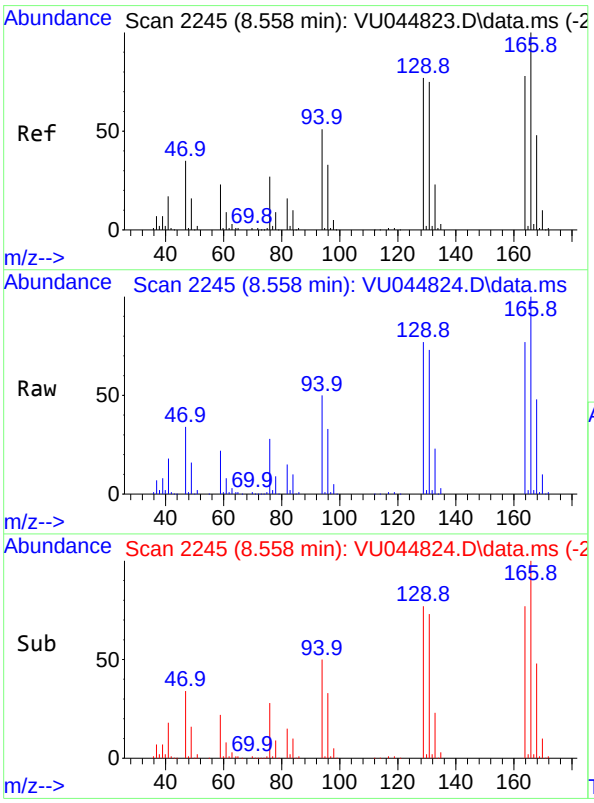


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:117 Resp: 273444

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.8	71.8
119	32.1	25.8	38.6

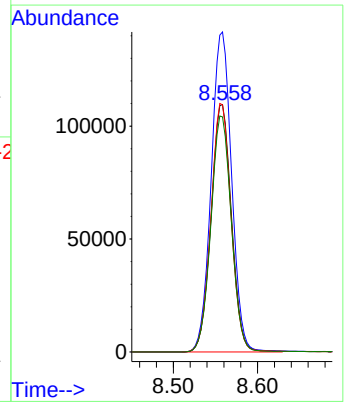




#64
Tetrachloroethene
Concen: 97.555 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:164 Resp: 184859

Ion	Ratio	Lower	Upper
164	100		
166	129.3	102.8	154.2
129	99.9	79.4	119.2
131	95.0	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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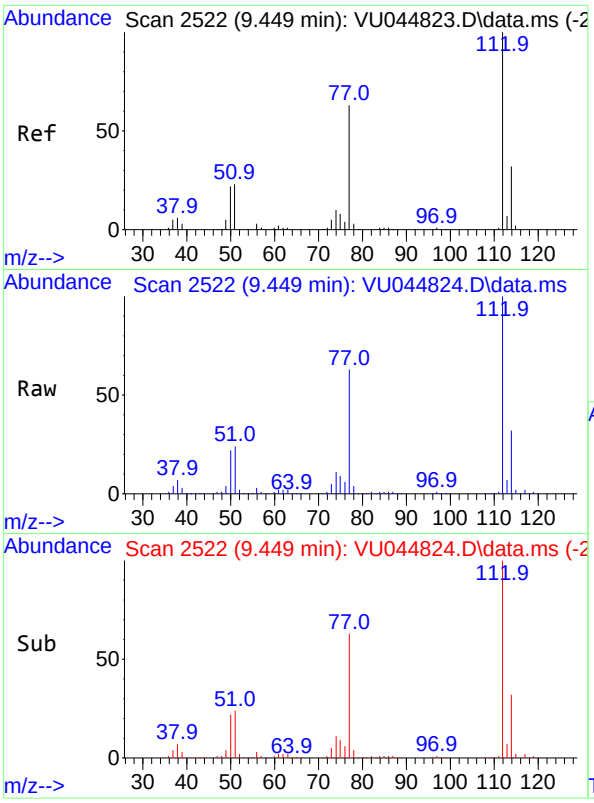
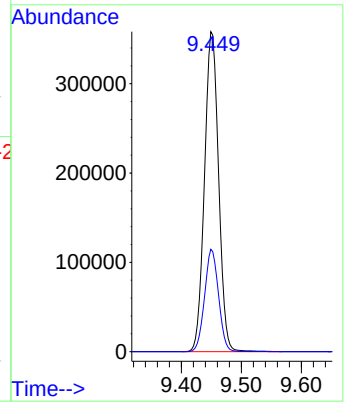
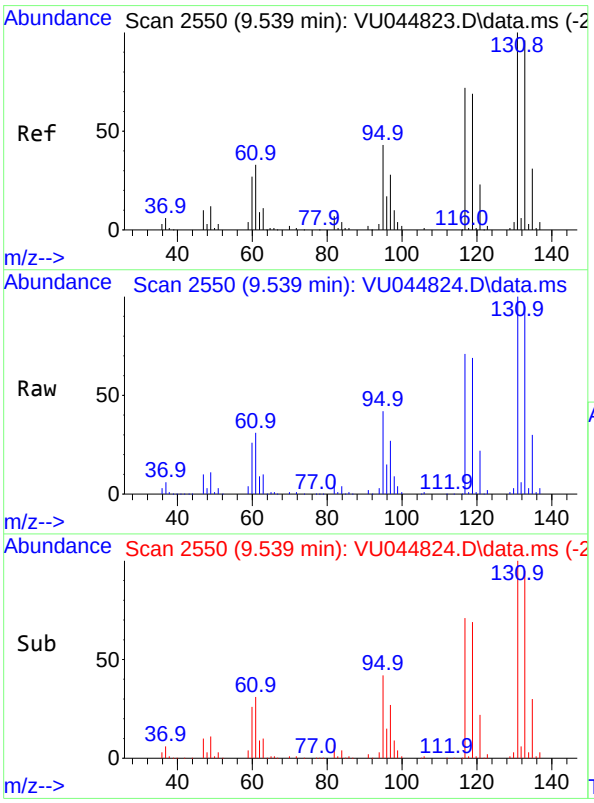


#65
Chlorobenzene
Concen: 100.338 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:112 Resp: 588473

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.9	38.9

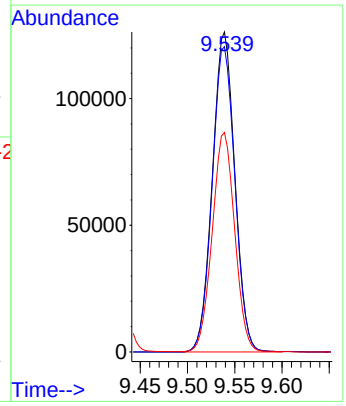




#66
1,1,1,2-Tetrachloroethane
Concen: 101.883 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:131 Resp: 209015

Ion	Ratio	Lower	Upper
131	100		
133	96.5	48.1	144.3
119	68.5	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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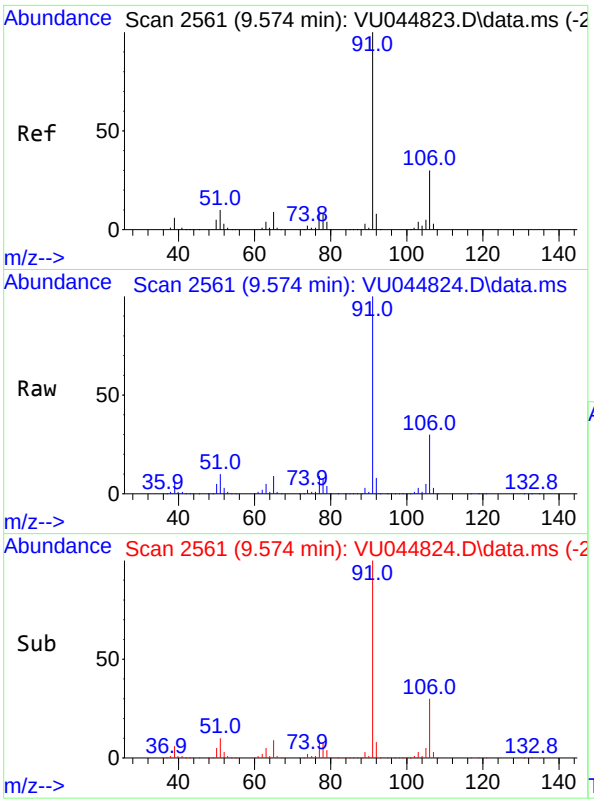
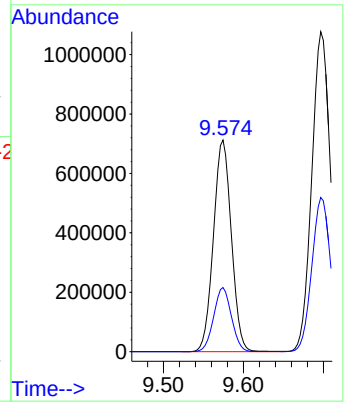
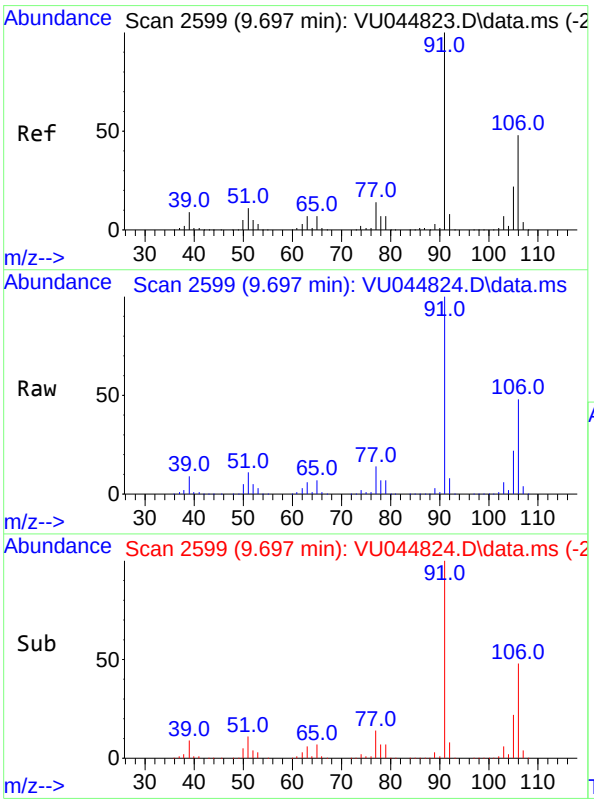


#67
Ethyl Benzene
Concen: 105.601 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 91 Resp: 1109588

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

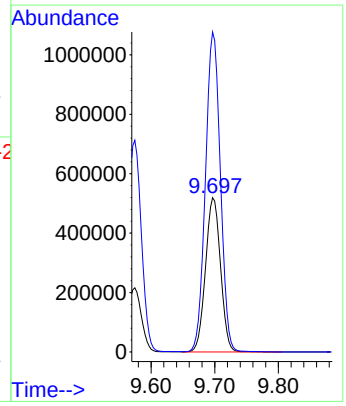




#68
m/p-Xylenes
Concen: 216.149 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:106 Resp: 850858

Ion	Ratio	Lower	Upper
106	100		
91	206.3	164.2	246.2



Instrument :
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ClientSampleId :
VSTDICC100

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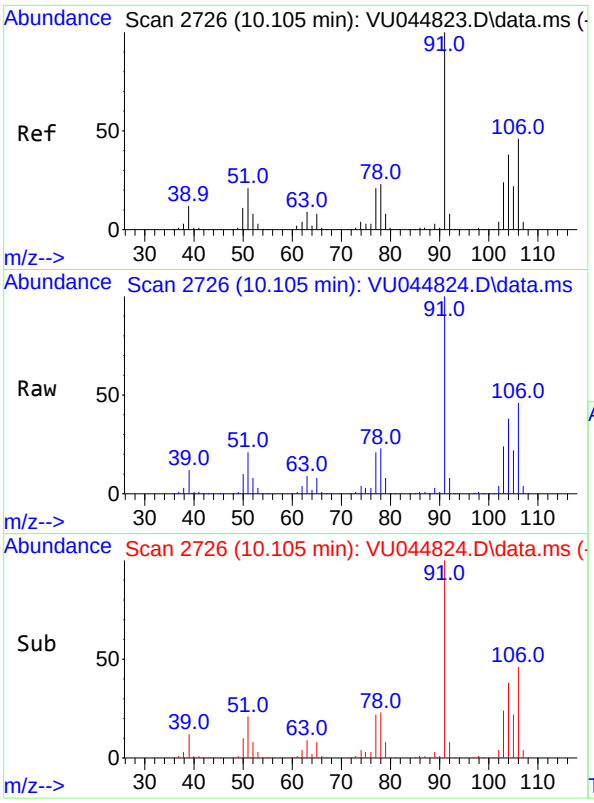
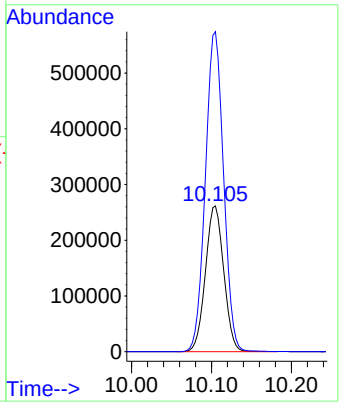
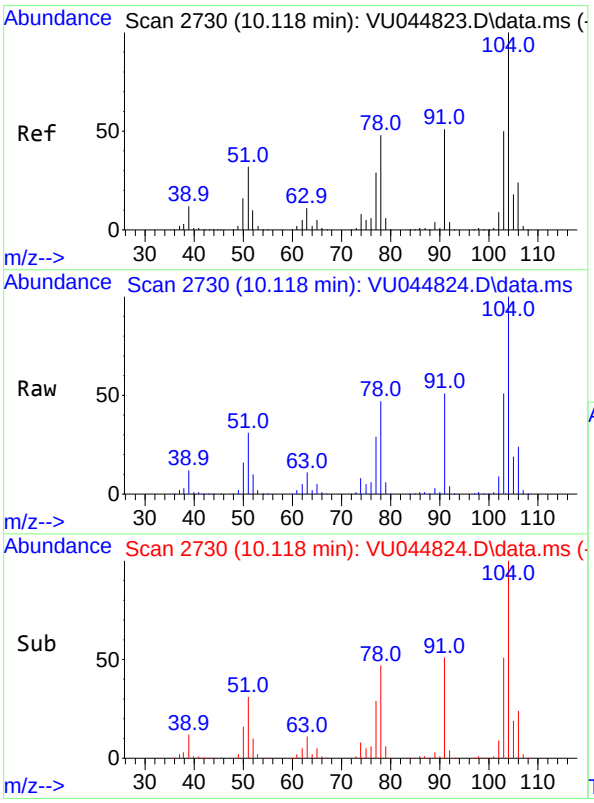


#69
o-Xylene
Concen: 111.247 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:106 Resp: 416597

Ion	Ratio	Lower	Upper
106	100		
91	218.2	108.9	326.7

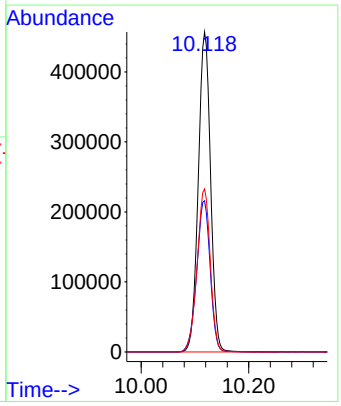




#70
Styrene
Concen: 111.607 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:104 Resp: 723598

Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.4	62.0
103	54.9	43.5	65.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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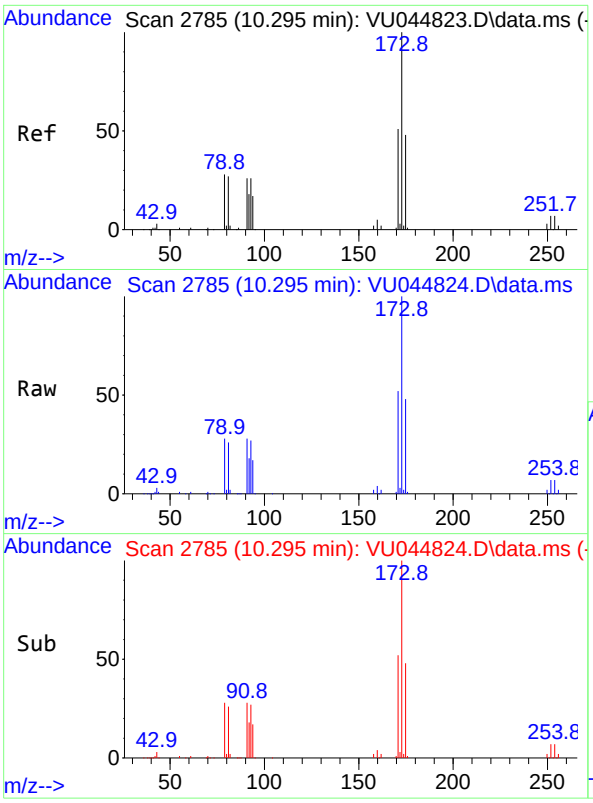
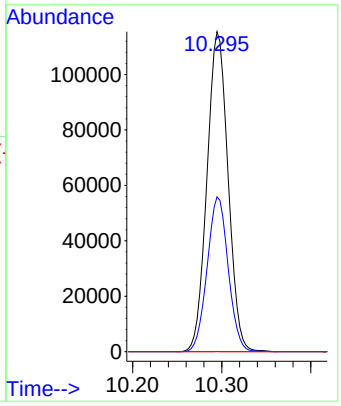
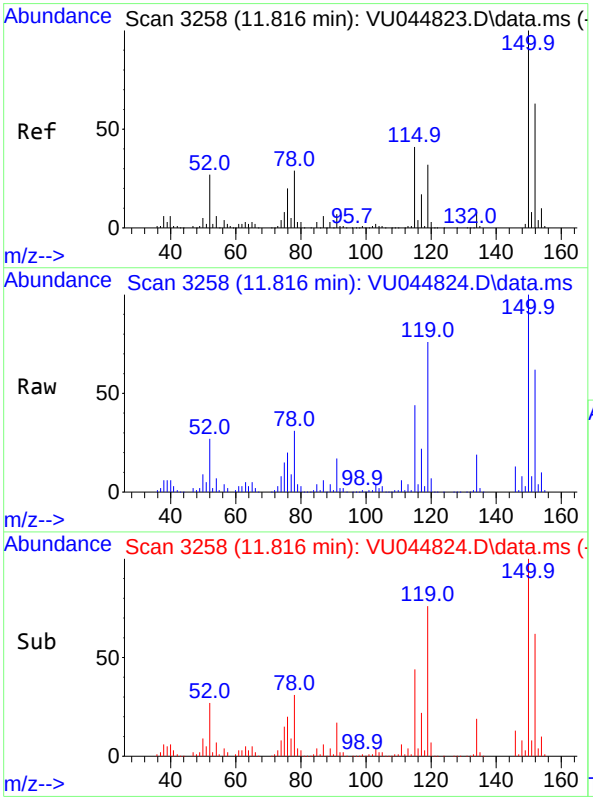


#71
Bromoform
Concen: 109.511 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:173 Resp: 189526

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	73.0
254	0.0	0.0	0.0#

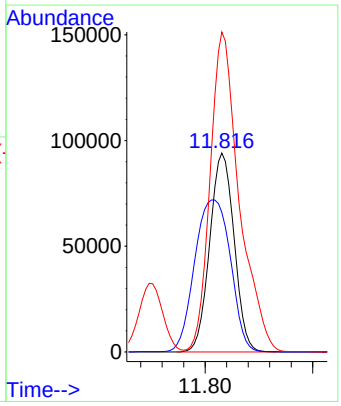




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:152 Resp: 148117

Ion	Ratio	Lower	Upper
152	100		
115	112.3	43.5	130.7
150	191.8	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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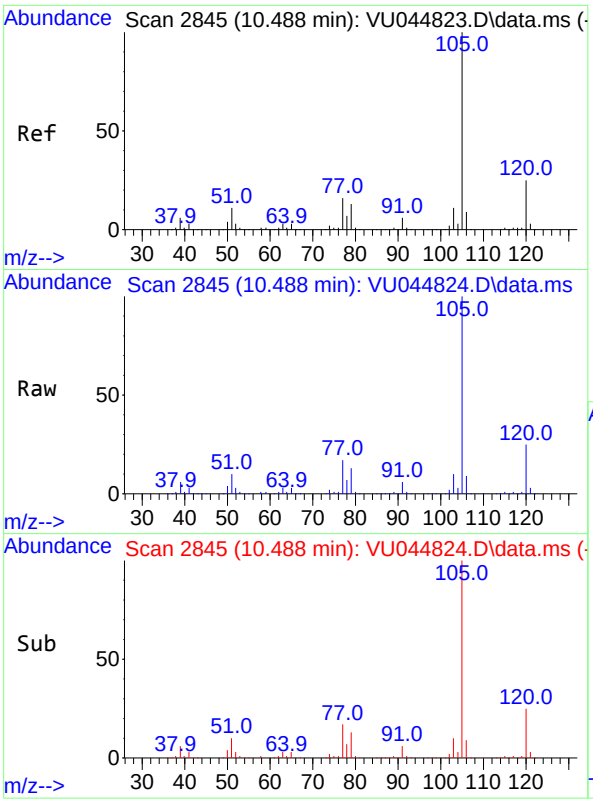
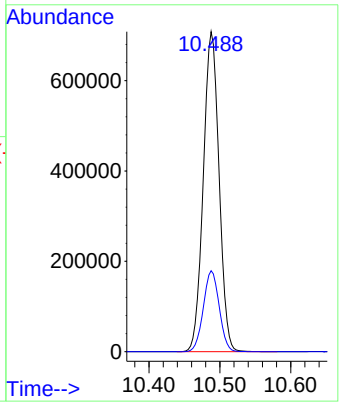
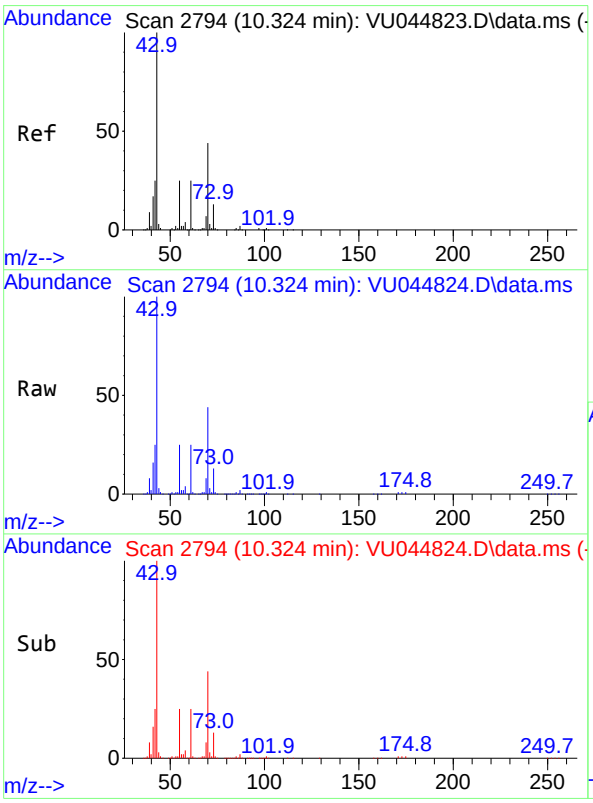


#73
Isopropylbenzene
Concen: 108.760 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:105 Resp: 1092118

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3

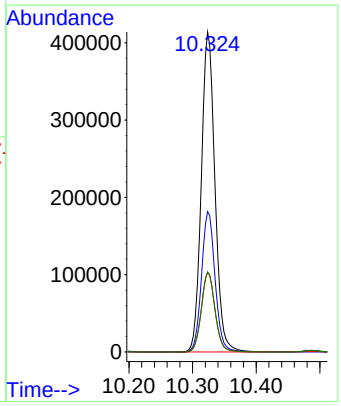




#74
N-amyl acetate
Concen: 132.766 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 43 Resp: 616230

Ion	Ratio	Lower	Upper
43	100		
70	43.6	35.1	52.7
55	25.0	20.5	30.7
61	25.0	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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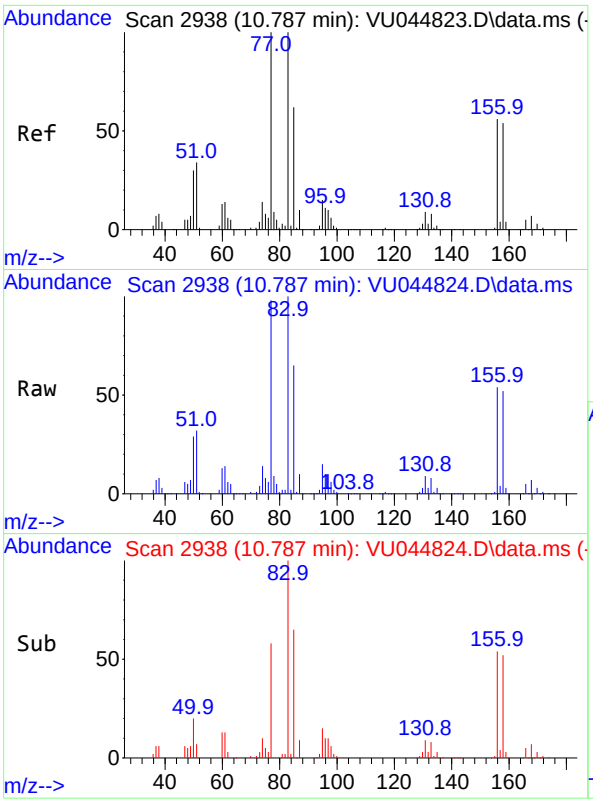
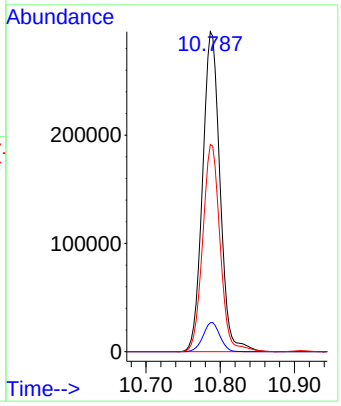
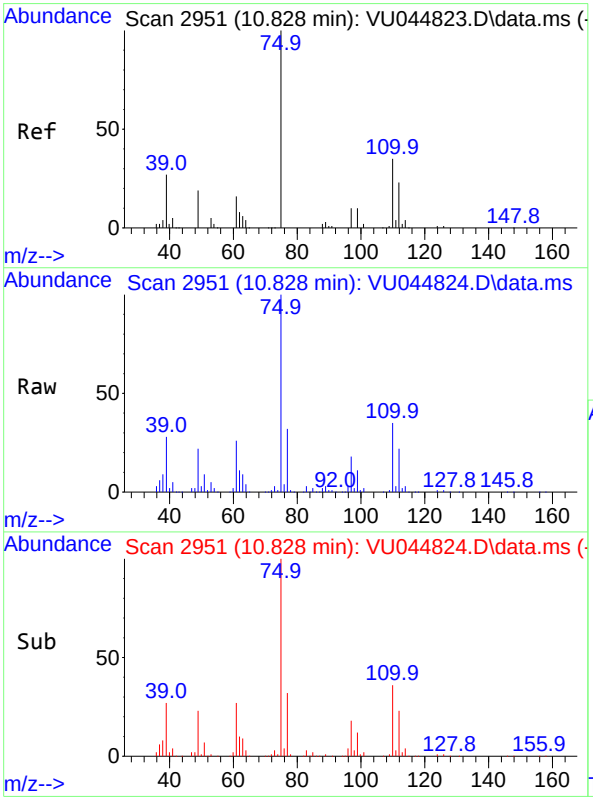


#75
1,1,2,2-Tetrachloroethane
Concen: 109.347 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 83 Resp: 480176

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.3	13.1
85	64.8	31.9	95.5

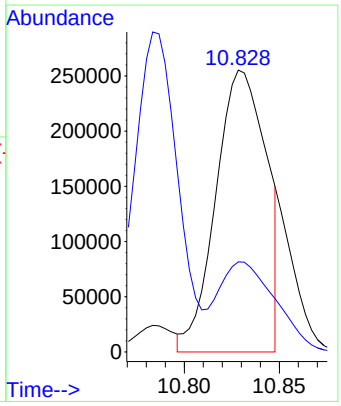




#76
1,2,3-Trichloropropane
Concen: 96.729 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 75 Resp: 471283

Ion	Ratio	Lower	Upper
75	100		
77	35.5	17.9	53.7



Instrument :
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ClientSampleId :
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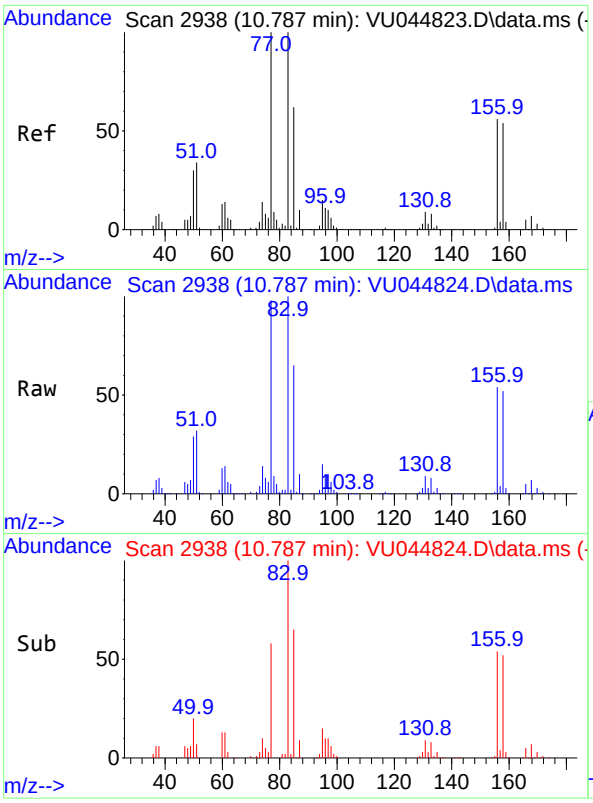
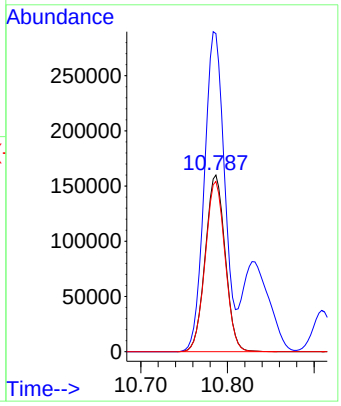
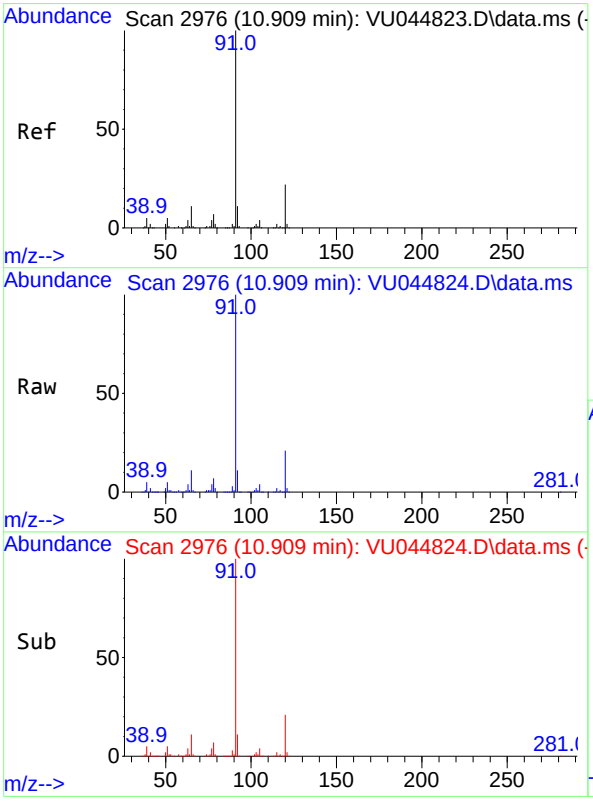


#77
Bromobenzene
Concen: 101.423 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:156 Resp: 255448

Ion	Ratio	Lower	Upper
156	100		
77	182.4	91.1	273.4
158	96.5	48.2	144.6

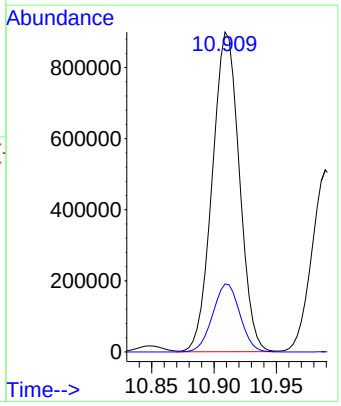




#78
n-propylbenzene
Concen: 104.671 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 91 Resp: 1359831

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.8	32.4



Instrument :
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ClientSampleId :
VSTDICC100

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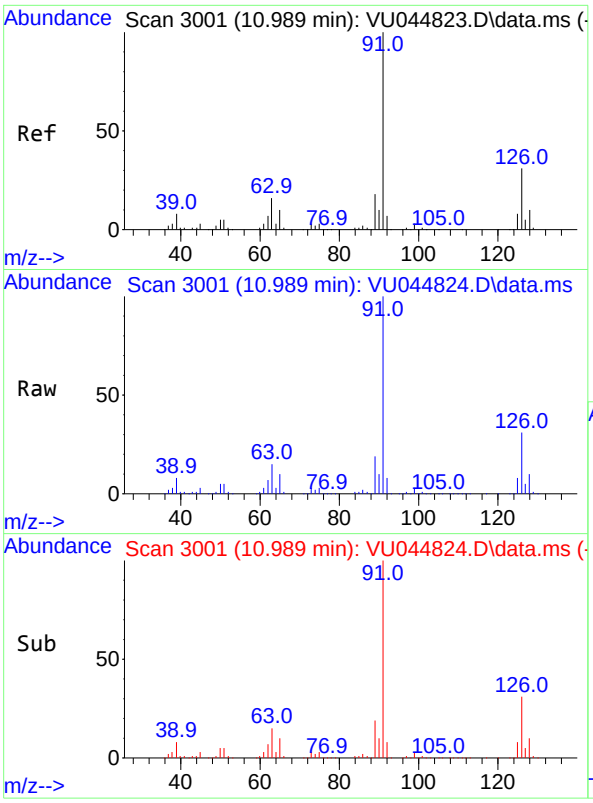
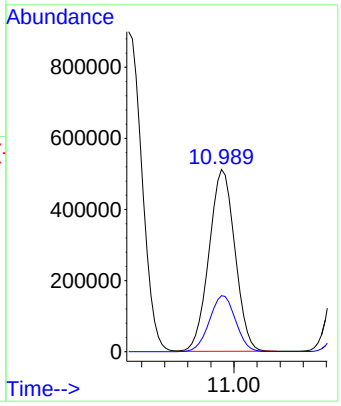
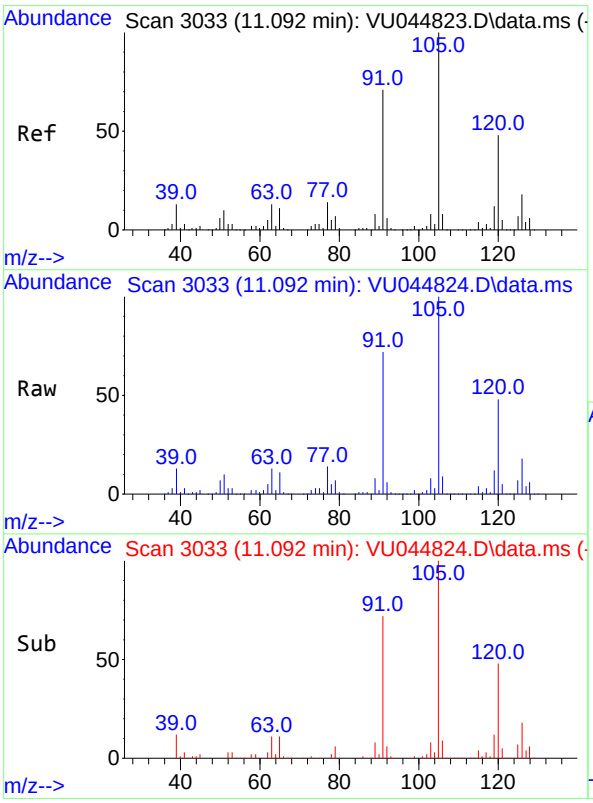


#79
2-Chlorotoluene
Concen: 103.326 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 91 Resp: 796632

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.7	47.0

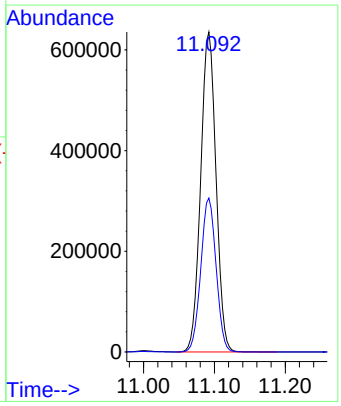




#80
1,3,5-Trimethylbenzene
Concen: 107.468 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:105 Resp: 953639

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.1	72.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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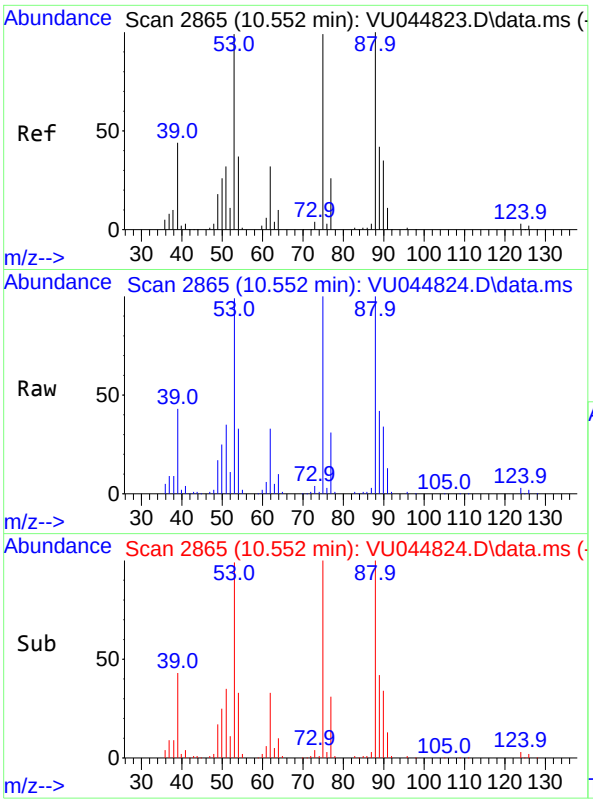
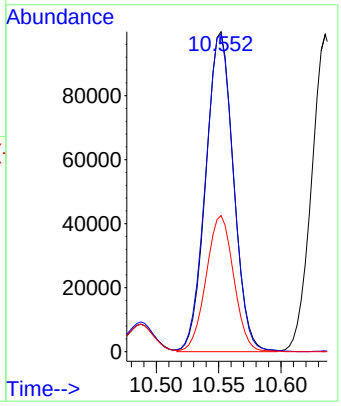
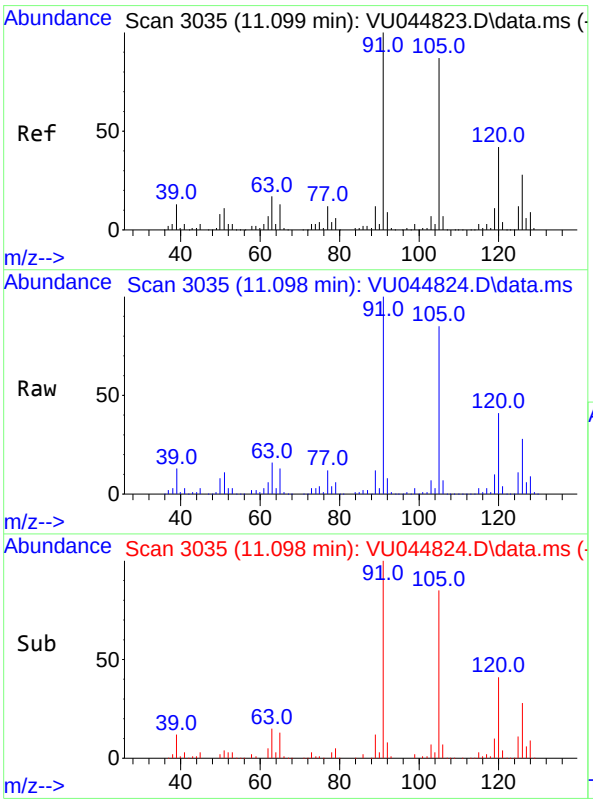


#81
trans-1,4-Dichloro-2-butene
Concen: 112.239 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 75 Resp: 154382

Ion	Ratio	Lower	Upper
75	100		
53	100.3	82.0	123.0
89	42.5	34.2	51.4

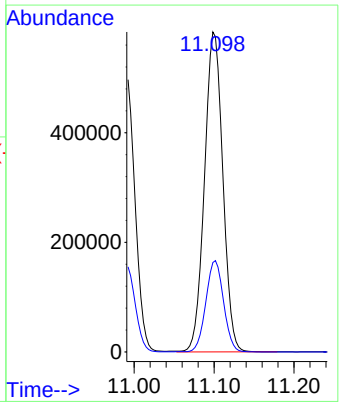




#82
4-Chlorotoluene
Concen: 102.798 ug/l
RT: 11.098 min Scan# 3035
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 91 Resp: 930802

Ion	Ratio	Lower	Upper
91	100		
126	27.6	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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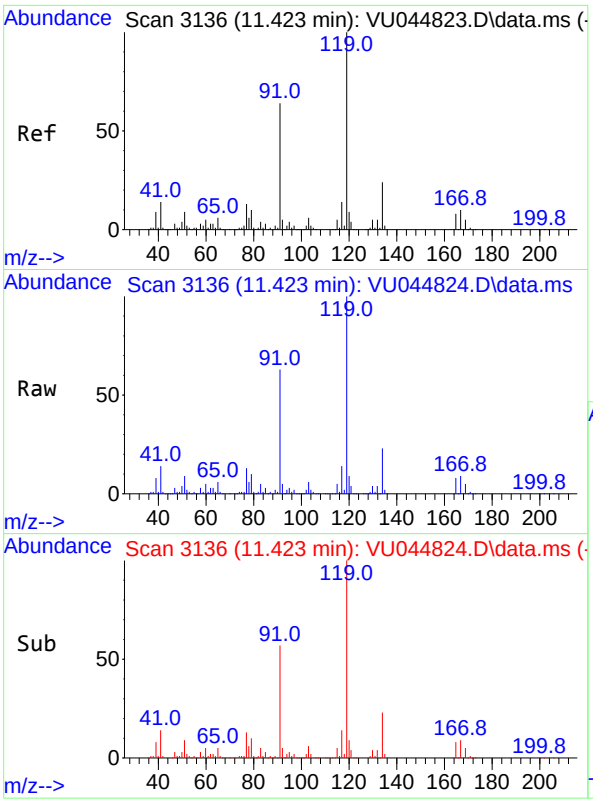
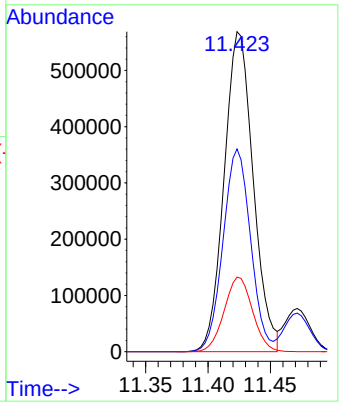
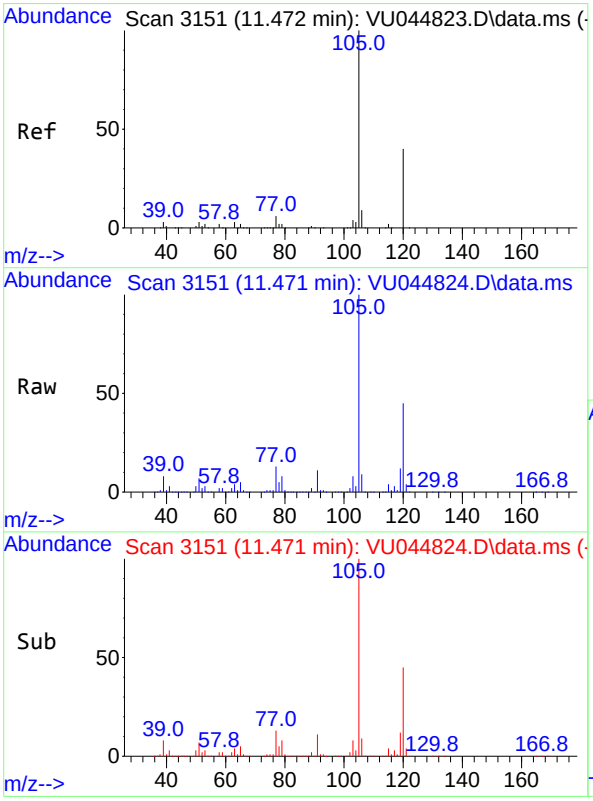


#83
tert-Butylbenzene
Concen: 110.784 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:119 Resp: 925120

Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.4	91.2
134	22.7	11.5	34.5

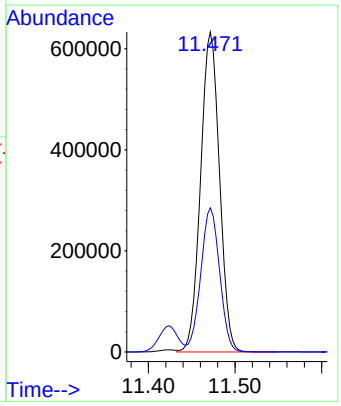




#84
1,2,4-Trimethylbenzene
Concen: 107.903 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:105 Resp: 958161

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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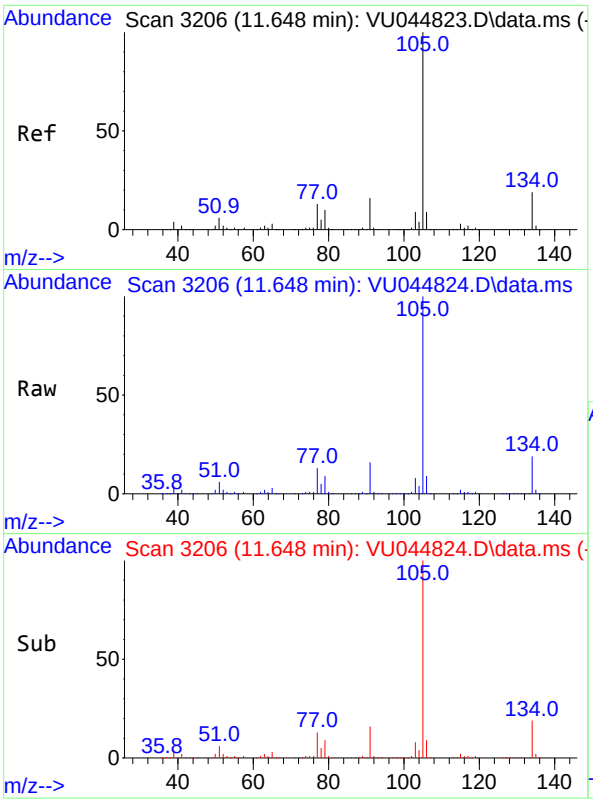
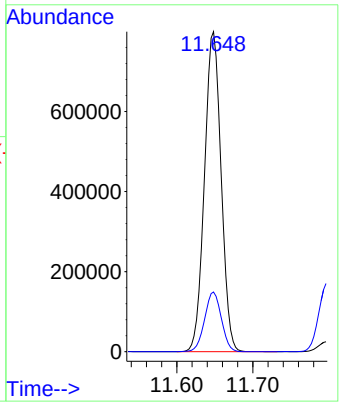
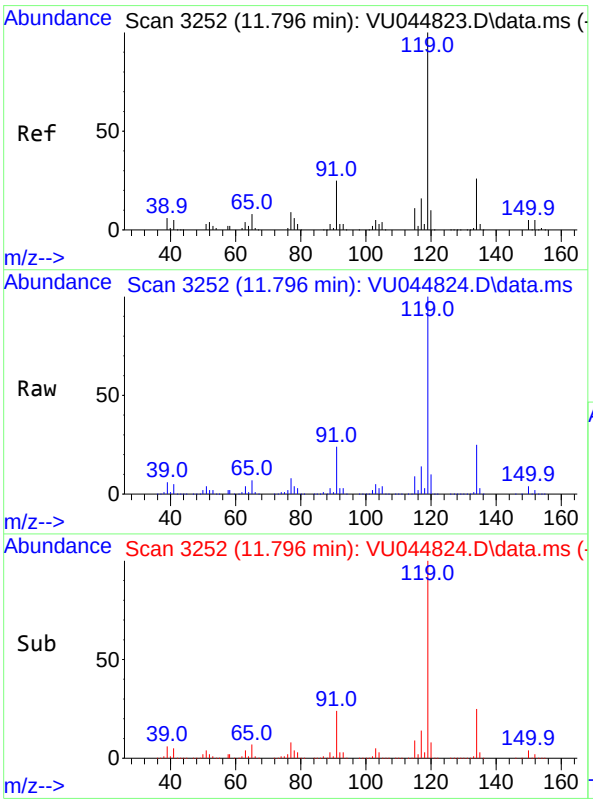


#85
sec-Butylbenzene
Concen: 110.289 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:105 Resp: 1214308

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.3	28.0

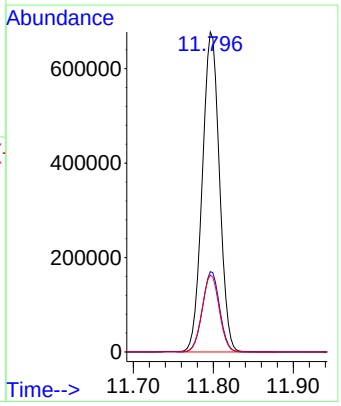




#86
p-Isopropyltoluene
Concen: 108.329 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:119 Resp: 1008495

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.3
91	24.1	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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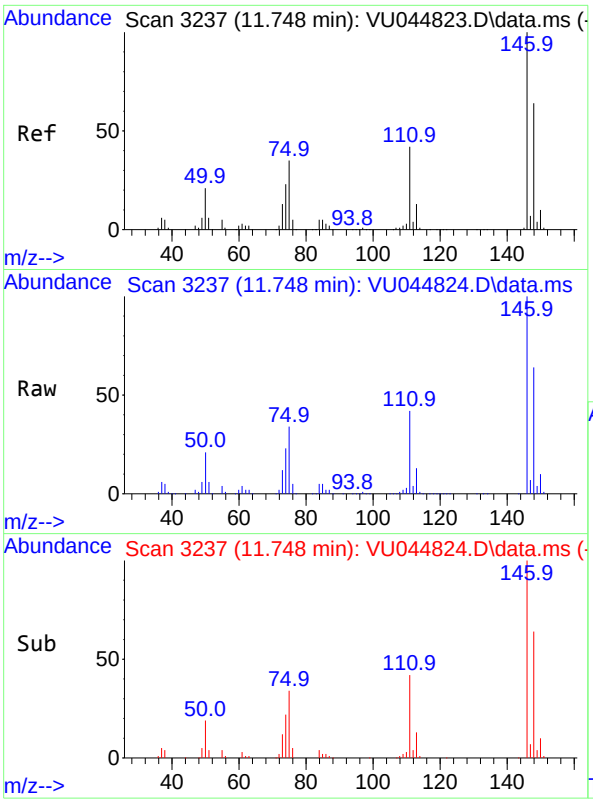
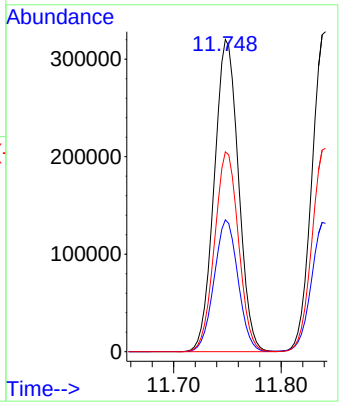
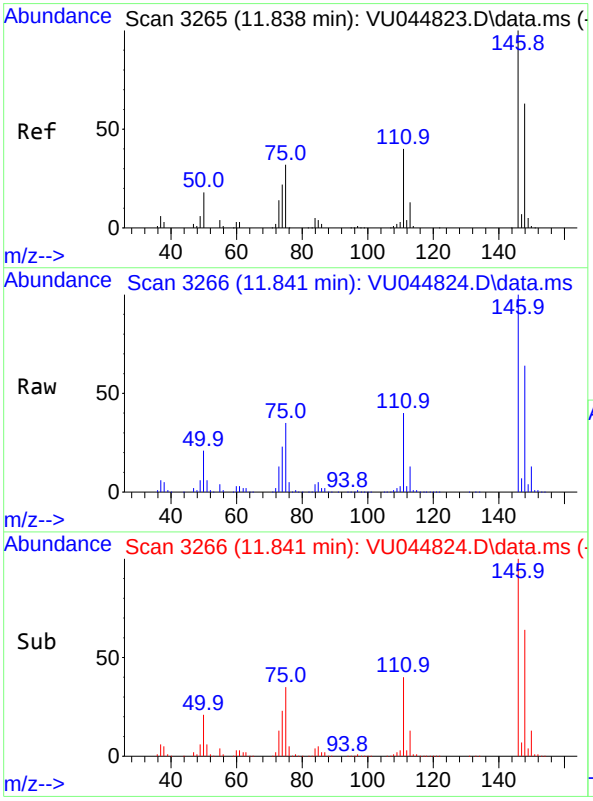


#87
1,3-Dichlorobenzene
Concen: 102.131 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:146 Resp: 501870

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.2	63.6
148	63.4	32.1	96.3

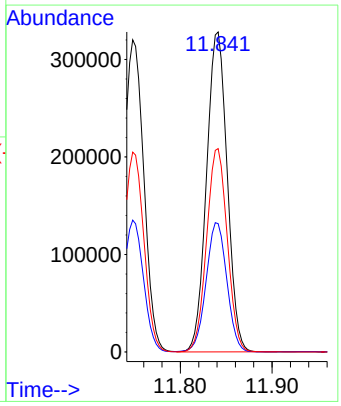




#88
1,4-Dichlorobenzene
Concen: 97.989 ug/l
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:146 Resp: 512046

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	63.8	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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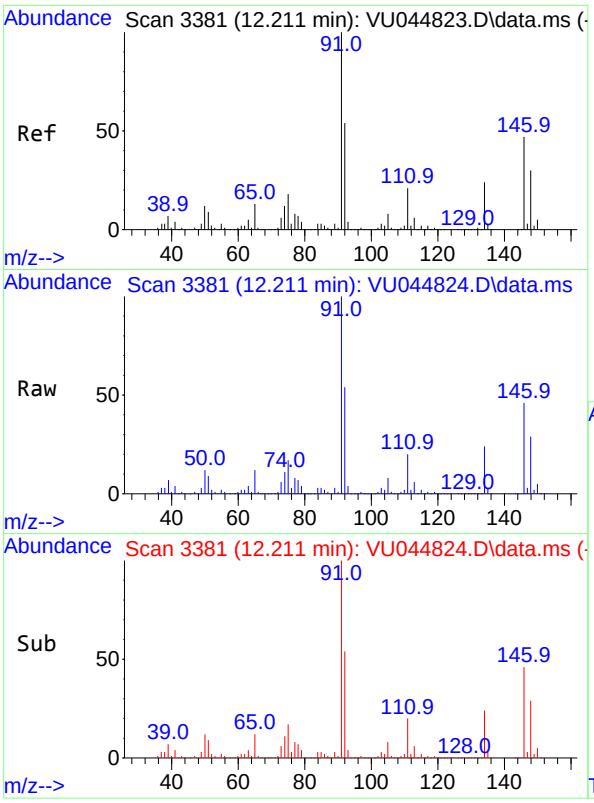
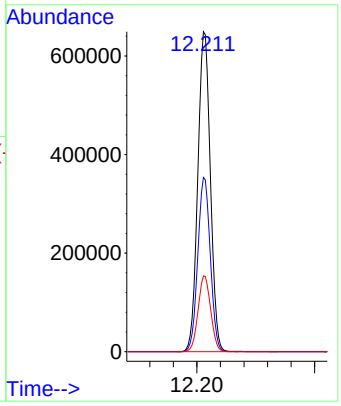
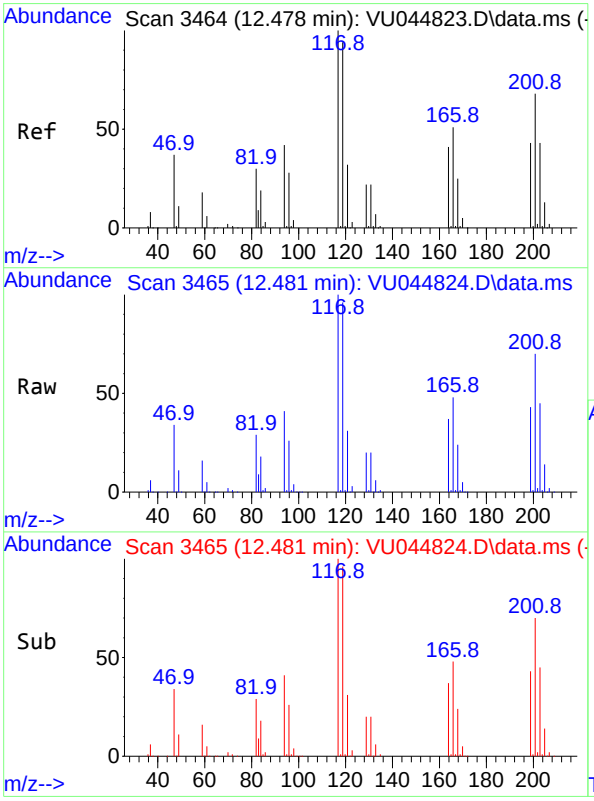


#89
n-Butylbenzene
Concen: 102.465 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 91 Resp: 961464

Ion	Ratio	Lower	Upper
91	100		
92	54.2	26.8	80.4
134	23.6	11.8	35.4

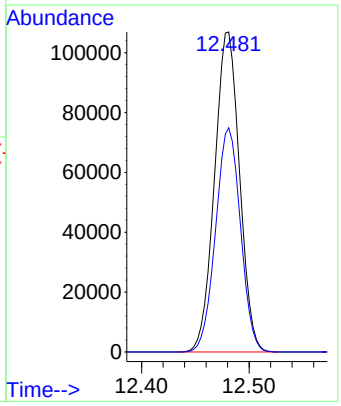




#90
Hexachloroethane
Concen: 115.003 ug/l
RT: 12.481 min Scan# 3465
Delta R.T. 0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:117 Resp: 172899

Ion	Ratio	Lower	Upper
117	100		
201	69.7	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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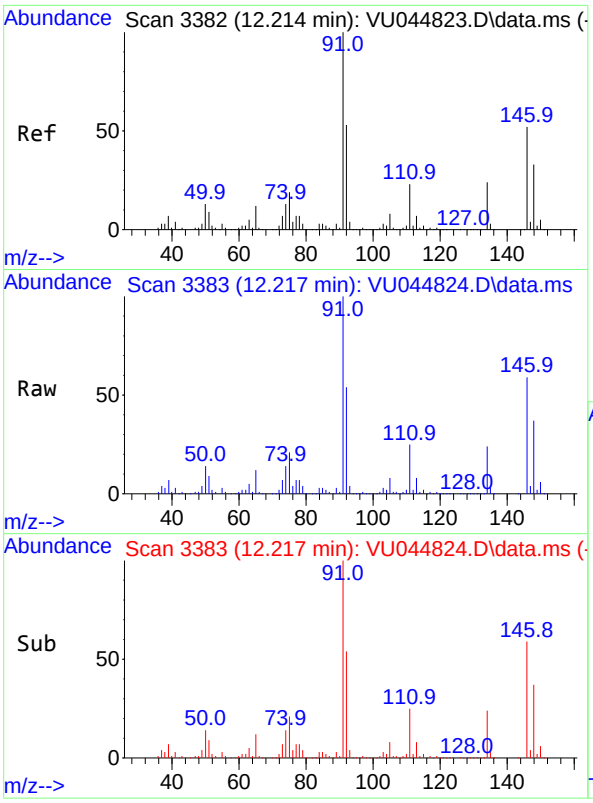
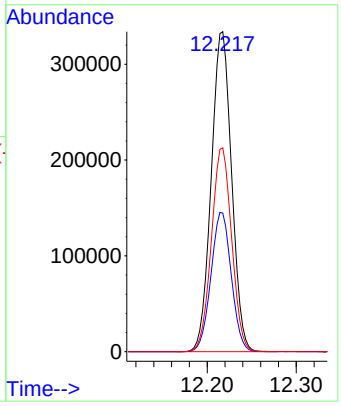
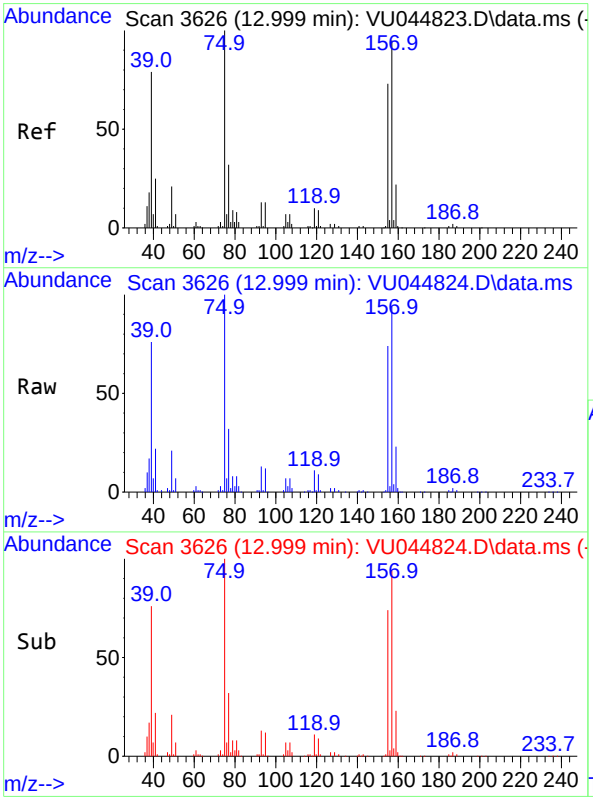


#91
1,2-Dichlorobenzene
Concen: 106.475 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:146 Resp: 530123

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.4	64.3
148	63.6	31.8	95.3

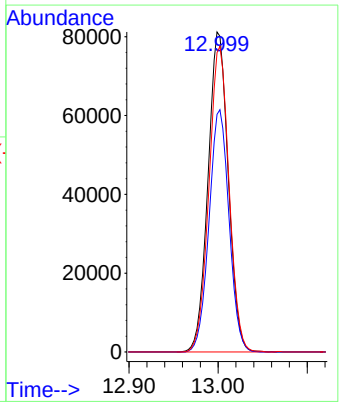




#92
1,2-Dibromo-3-Chloropropane
Concen: 125.759 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion: 75 Resp: 128074

Ion	Ratio	Lower	Upper
75	100		
155	74.8	36.9	110.6
157	94.8	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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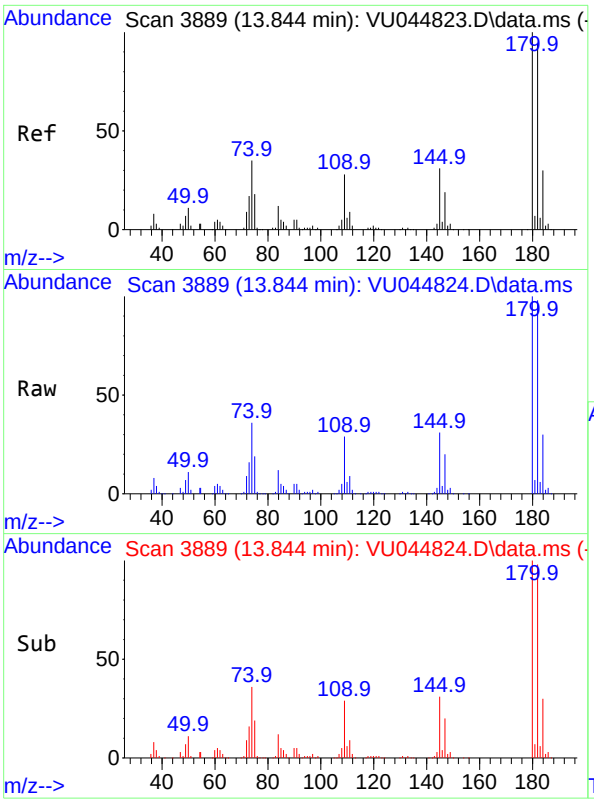
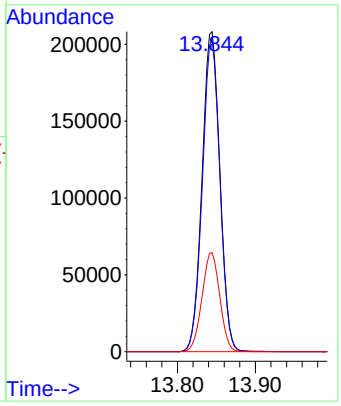
9/27/2021 11:02:46 AM

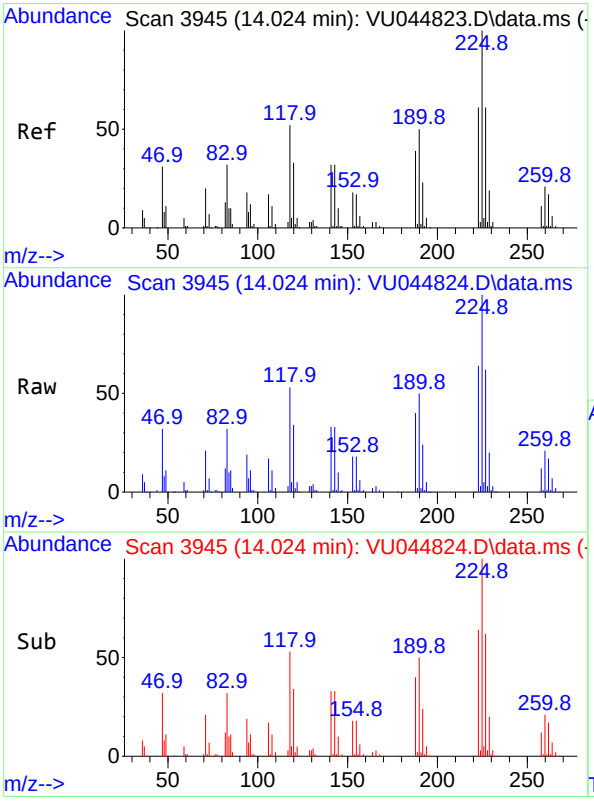


#93
1,2,4-Trichlorobenzene
Concen: 106.449 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:180 Resp: 330482

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.4	142.3
145	30.9	15.4	46.2

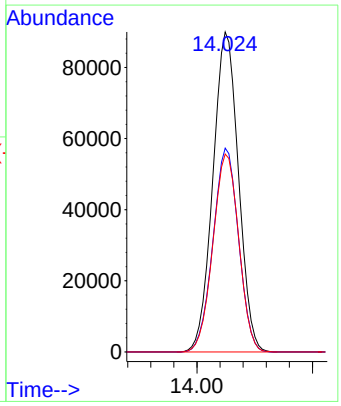




#94
Hexachlorobutadiene
Concen: 85.879 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:225 Resp: 138132

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.1	93.3
227	62.6	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
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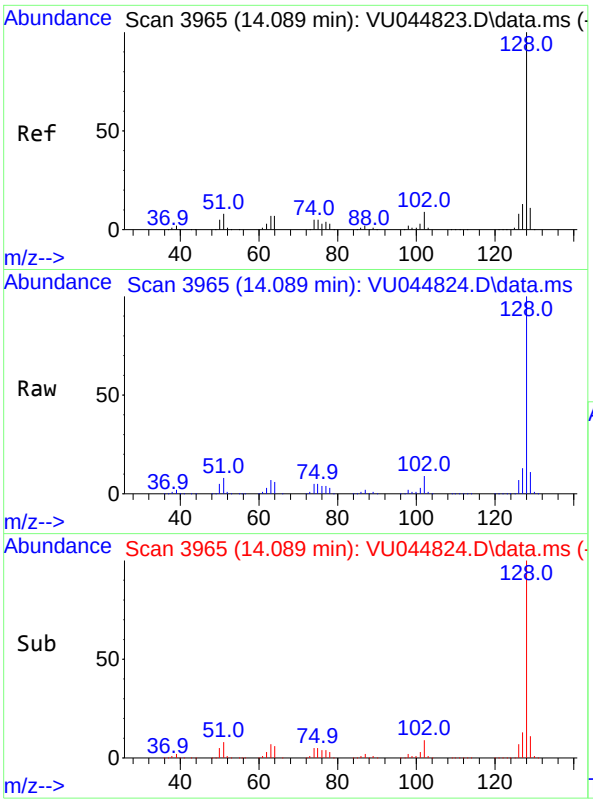
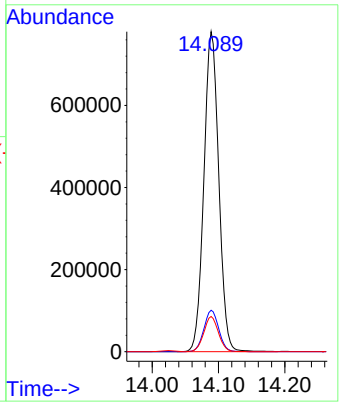
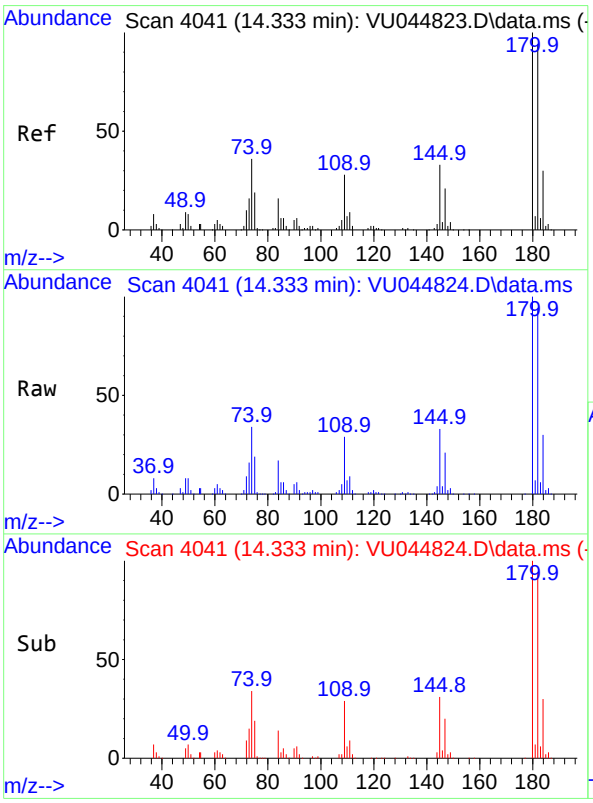


#95
Naphthalene
Concen: 120.283 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:128 Resp: 1212168

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.9	8.6	13.0

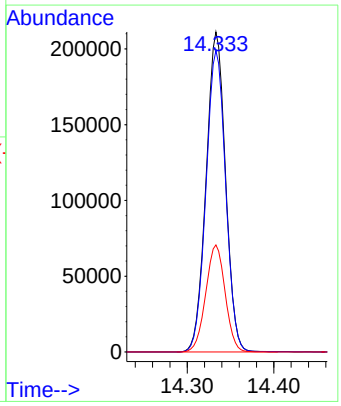




#96
1,2,3-Trichlorobenzene
Concen: 108.113 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044824.D
Acq: 24 Sep 2021 21:16

Tgt Ion:180 Resp: 329330

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.1	141.4
145	33.5	16.4	49.2



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044825.D
Acq On : 24 Sep 2021 21:39
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 25 00:59:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICC150

Manual Integrations APPROVED
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9/27/2021 11:02:48 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	176333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	318581	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	310328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	172436	50.00	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	442982	154.41	ug/l	0.00
Spiked Amount 50.000			Recovery =	308.82%		
35) Dibromofluoromethane	5.292	113	317734	143.79	ug/l	0.00
Spiked Amount 50.000			Recovery =	287.58%		
50) Toluene-d8	7.902	98	1235746	145.66	ug/l	0.00
Spiked Amount 50.000			Recovery =	291.32%		
62) 4-Bromofluorobenzene	10.639	95	501030	149.93	ug/l	0.00
Spiked Amount 50.000			Recovery =	299.86%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	315926	129.02	ug/l	99
3) Chloromethane	1.517	50	421454	127.18	ug/l	99
4) Vinyl Chloride	1.607	62	422578	140.89	ug/l	98
5) Bromomethane	1.842	94	202158	162.01	ug/l	99
7) Trichlorofluoromethane	2.128	101	503552	139.13	ug/l	99
8) Diethyl Ether	2.379	74	243564	161.02	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.575	101	302652	137.83	ug/l	99
10) Methyl Iodide	2.719	142	348771	140.66	ug/l	99
11) Tert butyl alcohol	3.279	59	627104m	797.55	ug/l	
12) 1,1-Dichloroethene	2.578	96	306104	140.38	ug/l	97
13) Acrolein	2.488	56	179497	441.51	ug/l	97
14) Allyl chloride	2.922	41	581016	141.79	ug/l	99
15) Acrylonitrile	3.321	53	1350352	832.71	ug/l	100
16) Acetone	2.636	43	1147557	680.15	ug/l	99
17) Carbon Disulfide	2.790	76	860214	125.11	ug/l	100
18) Methyl Acetate	2.951	43	800331	201.33	ug/l	100
19) Methyl tert-butyl Ether	3.369	73	1190136	172.87	ug/l	99
20) Methylene Chloride	3.047	84	367943	128.53	ug/l	99
21) trans-1,2-Dichloroethene	3.353	96	330028	137.68	ug/l	99
22) Diisopropyl ether	3.999	45	1234471	171.15	ug/l	97
23) Vinyl Acetate	3.961	43	5249450	787.39	ug/l	99
24) 1,1-Dichloroethane	3.874	63	680176	144.74	ug/l	99
25) 2-Butanone	4.710	43	1898204	786.85	ug/l	100
26) 2,2-Dichloropropane	4.668	77	506688	137.94	ug/l	99
27) cis-1,2-Dichloroethene	4.671	96	394679	145.83	ug/l	100
28) Bromochloromethane	4.980	49	315527	141.16	ug/l	98
29) Tetrahydrofuran	5.057	42	1214721	902.79	ug/l	100
30) Chloroform	5.092	83	660238	143.85	ug/l	99
31) Cyclohexane	5.391	56	617282	151.58	ug/l	99
32) 1,1,1-Trichloroethane	5.321	97	557962	146.56	ug/l	98
36) 1,1-Dichloropropene	5.530	75	497942	140.39	ug/l	100
37) Ethyl Acetate	4.809	43	714603	163.10	ug/l	100
38) Carbon Tetrachloride	5.530	117	449572	140.32	ug/l	99
39) Methylcyclohexane	6.768	83	601445	156.75	ug/l	98
40) Benzene	5.777	78	1466324	139.31	ug/l	100
41) Methacrylonitrile	4.980	41	371940	166.38	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044825.D
Acq On : 24 Sep 2021 21:39
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 25 00:59:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDICC150

Manual Integrations APPROVED
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9/27/2021 11:02:48 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	5.800	62	565962	149.48	ug/l		100
43) Isopropyl Acetate	5.919	43	1058221	170.92	ug/l		100
44) Trichloroethene	6.546	130	343083	141.17	ug/l		98
45) 1,2-Dichloropropane	6.796	63	401351	138.94	ug/l		97
46) Dibromomethane	6.922	93	266264	143.25	ug/l		99
47) Bromodichloromethane	7.112	83	537569	147.19	ug/l		99
48) Methyl methacrylate	6.967	41	517864	172.19	ug/l		99
49) 1,4-Dioxane	6.989	88	256312	3269.31	ug/l		98
51) 4-Methyl-2-Pentanone	7.803	43	3897467	872.91	ug/l		99
52) Toluene	7.973	92	916939	147.09	ug/l		100
53) t-1,3-Dichloropropene	8.214	75	622830	157.08	ug/l		99
54) cis-1,3-Dichloropropene	7.610	75	648870	151.79	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	383006	145.53	ug/l		98
56) Ethyl methacrylate	8.340	69	718271	178.46	ug/l		99
57) 1,3-Dichloropropane	8.581	76	688725	147.34	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.468	63	916904	773.93	ug/l		100
59) 2-Hexanone	8.697	43	3183646	892.24	ug/l		98
60) Dibromochloromethane	8.816	129	398473	153.23	ug/l		99
61) 1,2-Dibromoethane	8.928	107	415416	150.08	ug/l		99
64) Tetrachloroethene	8.558	164	296764	138.00	ug/l		99
65) Chlorobenzene	9.452	112	957051	143.79	ug/l		98
66) 1,1,1,2-Tetrachloroethane	9.539	131	344890	148.13	ug/l		100
67) Ethyl Benzene	9.574	91	1804752	151.35	ug/l		99
68) m/p-Xylenes	9.697	106	1372282	307.18	ug/l		98
69) o-Xylene	10.105	106	680634	160.15	ug/l		99
70) Styrene	10.118	104	1199849	163.07	ug/l		100
71) Bromoform	10.298	173	328620	167.31	ug/l	#	100
73) Isopropylbenzene	10.488	105	1788432	152.99	ug/l		100
74) N-amyl acetate	10.327	43	1037587	192.02	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.790	83	790500	154.63	ug/l		99
76) 1,2,3-Trichloropropane	10.832	75	745985m	131.52	ug/l		
77) Bromobenzene	10.787	156	425104	144.98	ug/l		98
78) n-propylbenzene	10.912	91	2238112	147.98	ug/l		99
79) 2-Chlorotoluene	10.992	91	1312306	146.21	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	1565569	151.55	ug/l		99
81) trans-1,4-Dichloro-2-b...	10.552	75	264838	165.39	ug/l		96
82) 4-Chlorotoluene	11.102	91	1556787	147.68	ug/l		99
83) tert-Butylbenzene	11.426	119	1530124	157.39	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	1578748	152.72	ug/l		100
85) sec-Butylbenzene	11.648	105	2016789	157.34	ug/l		100
86) p-Isopropyltoluene	11.796	119	1670721	154.15	ug/l		100
87) 1,3-Dichlorobenzene	11.751	146	833381	145.68	ug/l		100
88) 1,4-Dichlorobenzene	11.841	146	852131	140.07	ug/l		100
89) n-Butylbenzene	12.211	91	1643739	150.47	ug/l		99
90) Hexachloroethane	12.481	117	298966	170.81	ug/l		99
91) 1,2-Dichlorobenzene	12.217	146	864414	149.13	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	13.002	75	204339	172.35	ug/l		99
93) 1,2,4-Trichlorobenzene	13.844	180	540812	149.63	ug/l		100
94) Hexachlorobutadiene	14.024	225	226963	121.21	ug/l		99
95) Naphthalene	14.089	128	1959465	167.01	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	532619	150.19	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044825.D
Acq On : 24 Sep 2021 21:39
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 25 00:59:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044825.D
Acq On : 24 Sep 2021 21:39
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 25 00:59:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 00:57:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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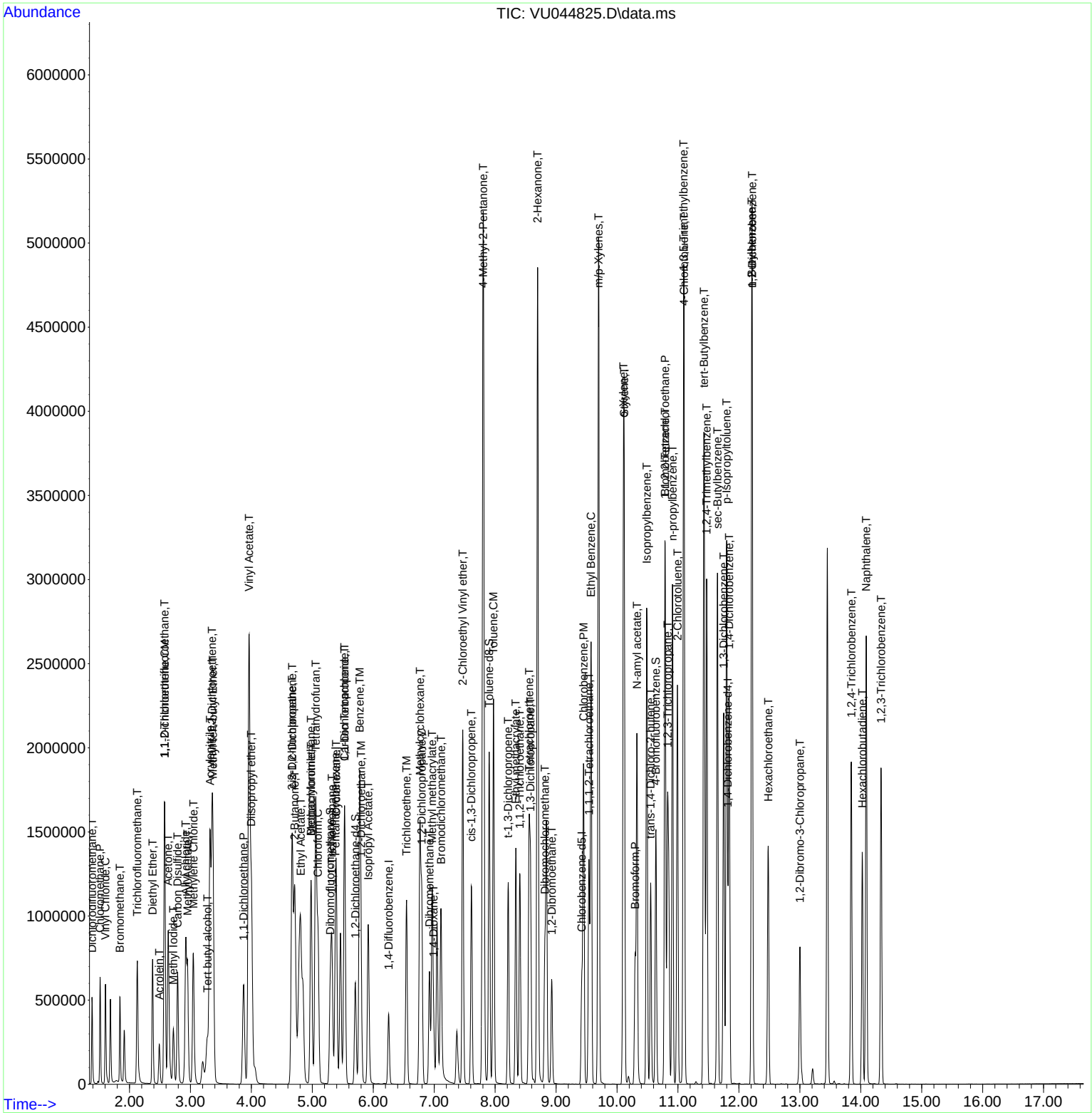

Instrument :
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ClientSampleId :
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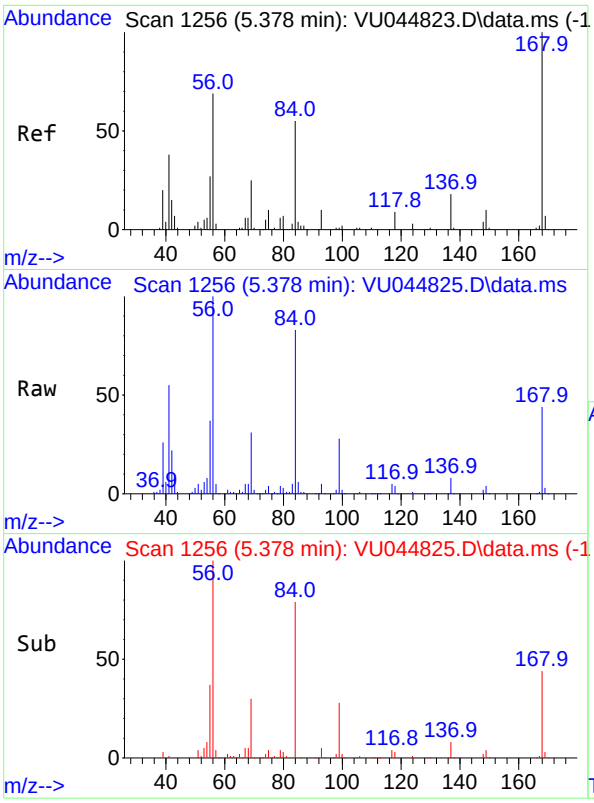
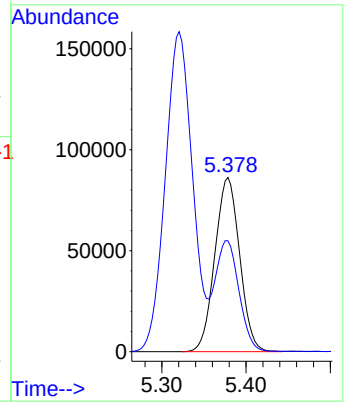
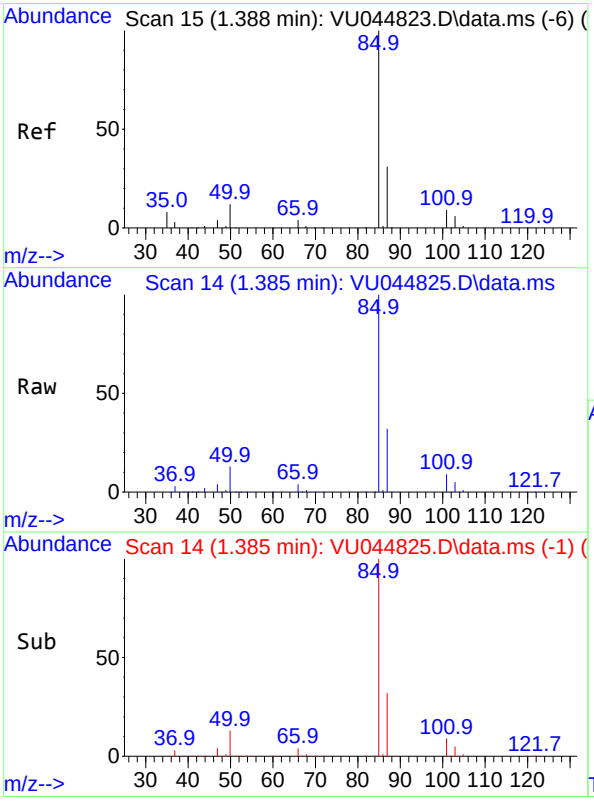


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:168 Resp: 176333

Ion	Ratio	Lower	Upper
168	100		
99	63.4	51.4	77.0

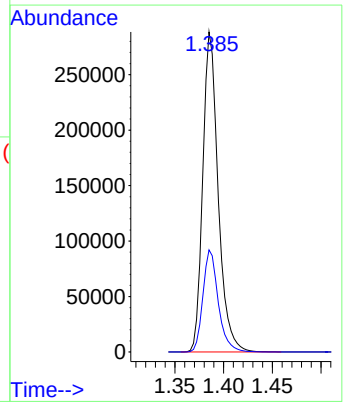




#2
Dichlorodifluoromethane
Concen: 129.02 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 85 Resp: 315926

Ion	Ratio	Lower	Upper
85	100		
87	31.9	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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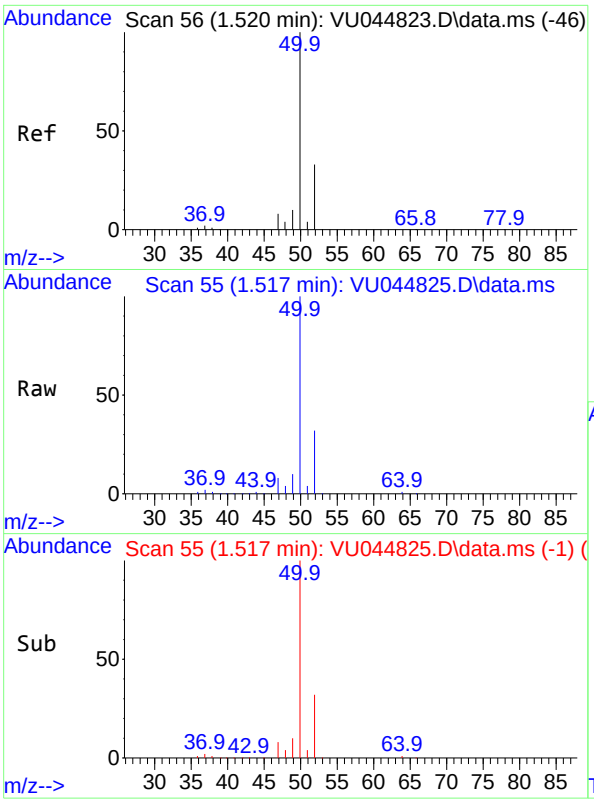
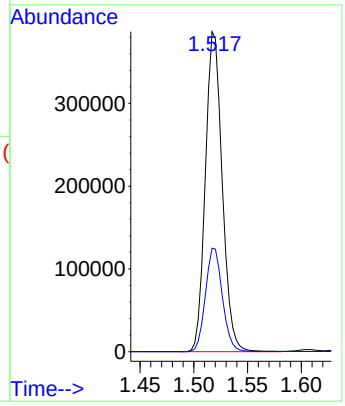
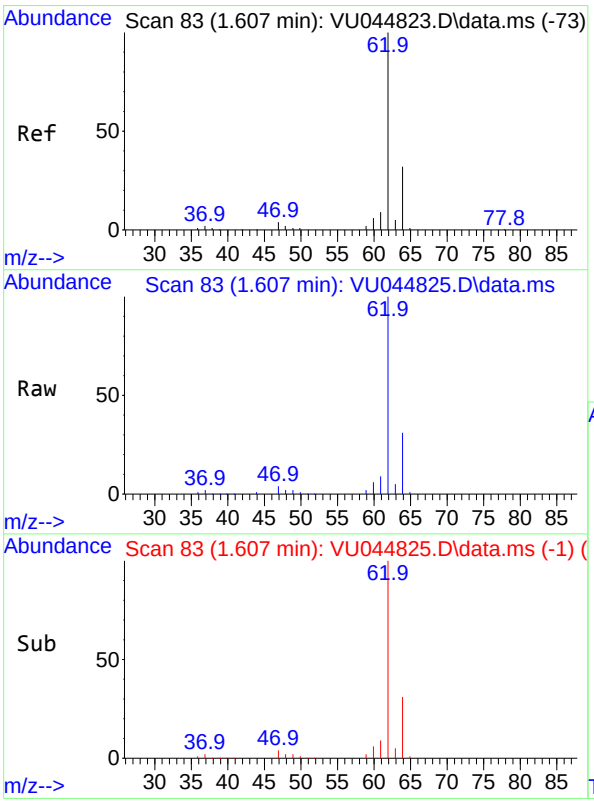


#3
Chloromethane
Concen: 127.18 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 50 Resp: 421454

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.3	39.5

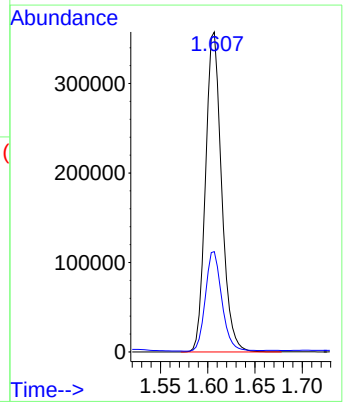




#4
Vinyl Chloride
Concen: 140.89 ug/l
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 62 Resp: 422578

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.6	38.4



Instrument :
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ClientSampleId :
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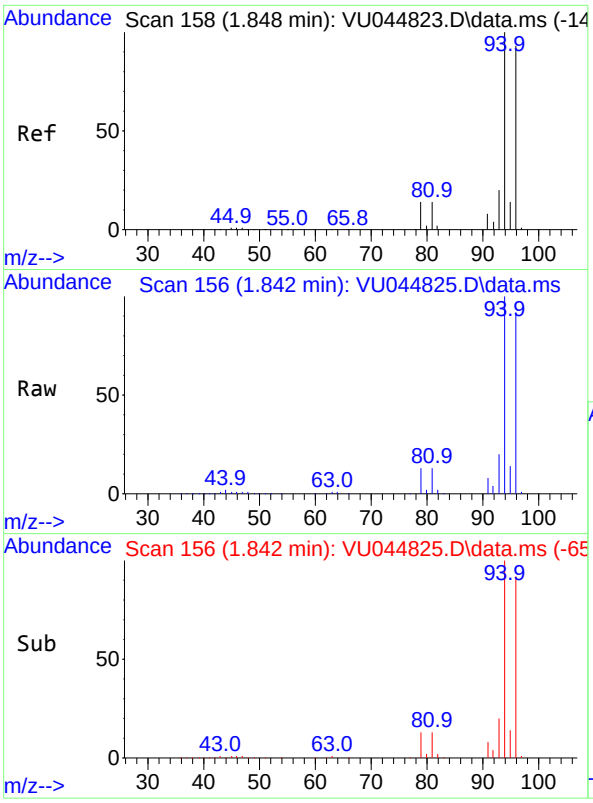
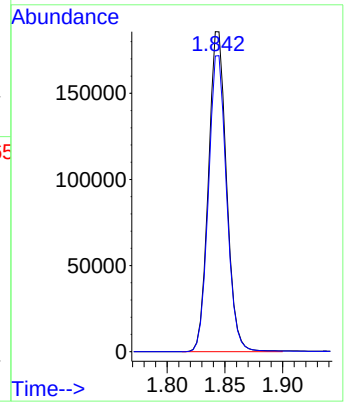
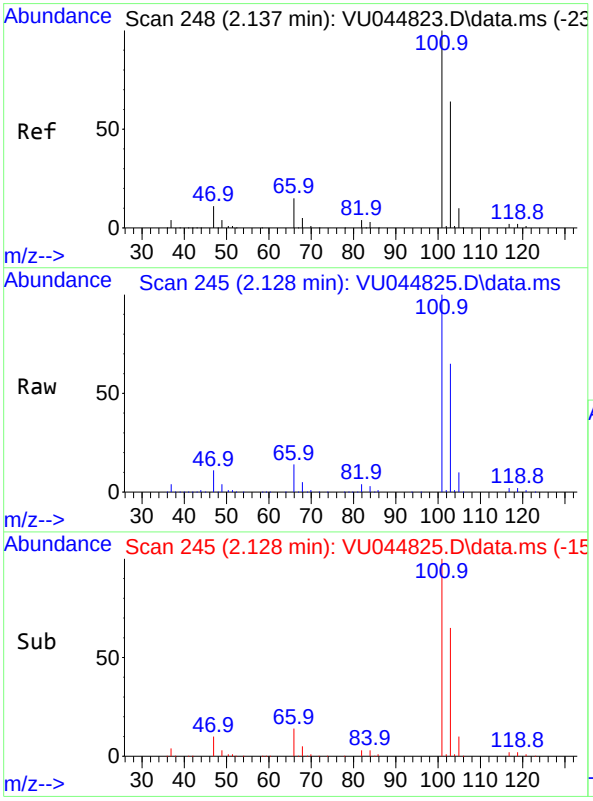


#5
Bromomethane
Concen: 162.01 ug/l
RT: 1.842 min Scan# 156
Delta R.T. -0.006 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 94 Resp: 202158

Ion	Ratio	Lower	Upper
94	100		
96	92.4	74.5	111.7

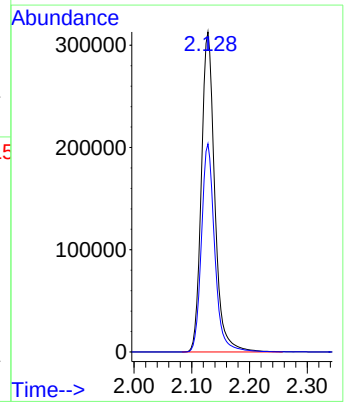




#7
Trichlorofluoromethane
Concen: 139.13 ug/l
RT: 2.128 min Scan# 245
Delta R.T. -0.010 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:101 Resp: 503552

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.2	76.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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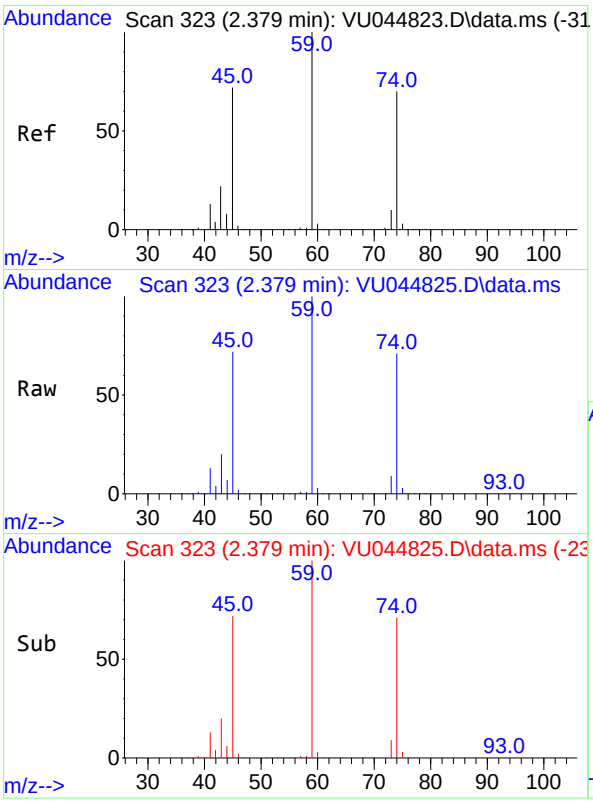
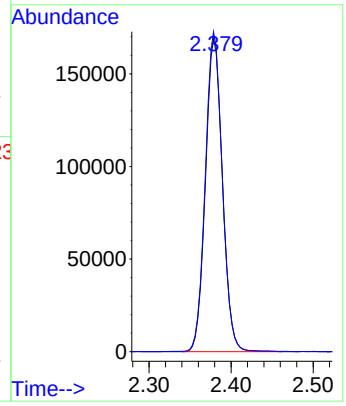
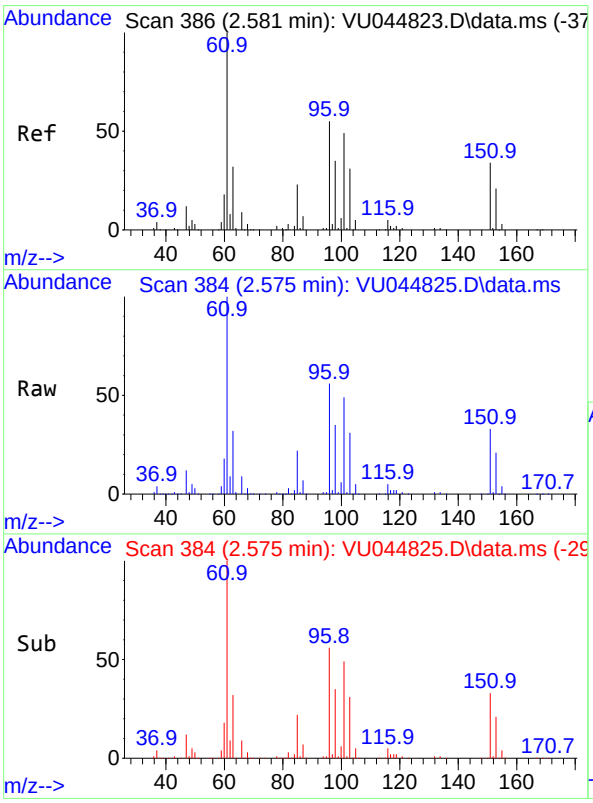


#8
Diethyl Ether
Concen: 161.02 ug/l
RT: 2.379 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 74 Resp: 243564

Ion	Ratio	Lower	Upper
74	100		
45	102.4	52.2	156.6

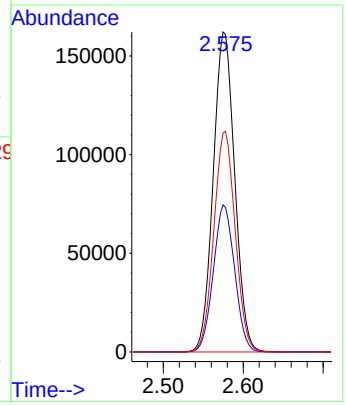




#9
1,1,2-Trichlorotrifluoroethane
Concen: 137.83 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.006 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:101 Resp: 302652

Ion	Ratio	Lower	Upper
101	100		
85	45.6	37.2	55.8
151	68.8	55.8	83.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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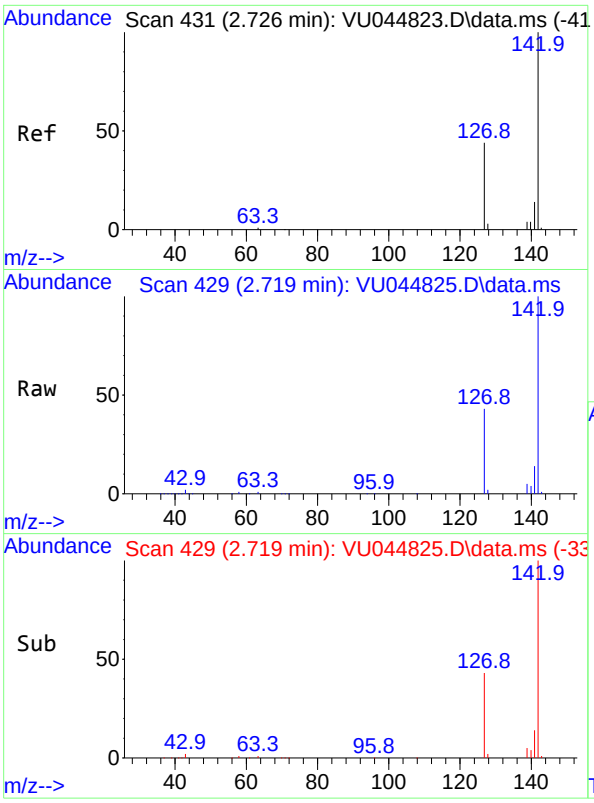
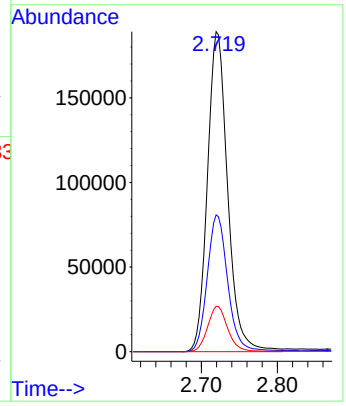
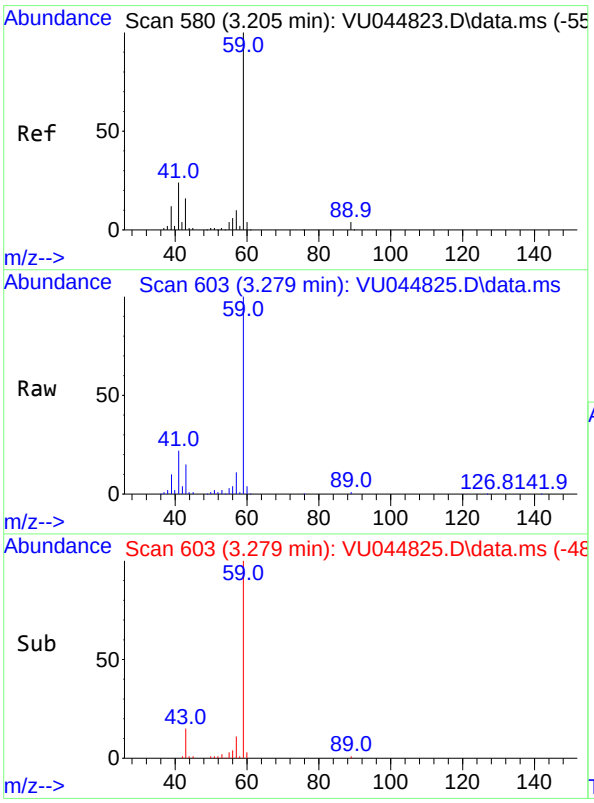


#10
Methyl Iodide
Concen: 140.66 ug/l
RT: 2.719 min Scan# 429
Delta R.T. -0.006 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:142 Resp: 348771

Ion	Ratio	Lower	Upper
142	100		
127	43.3	35.6	53.4
141	14.1	11.3	16.9

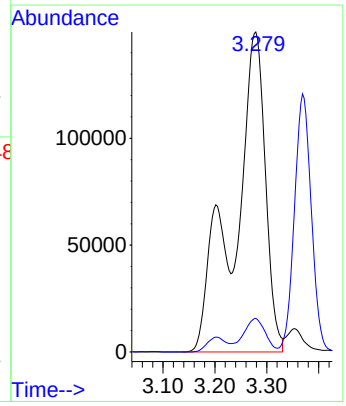




#11
Tert butyl alcohol
Concen: 797.55 ug/l m
RT: 3.279 min Scan# 603
Delta R.T. 0.074 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 59 Resp: 627104

Ion	Ratio	Lower	Upper
59	100		
57	2.8	8.3	12.5#



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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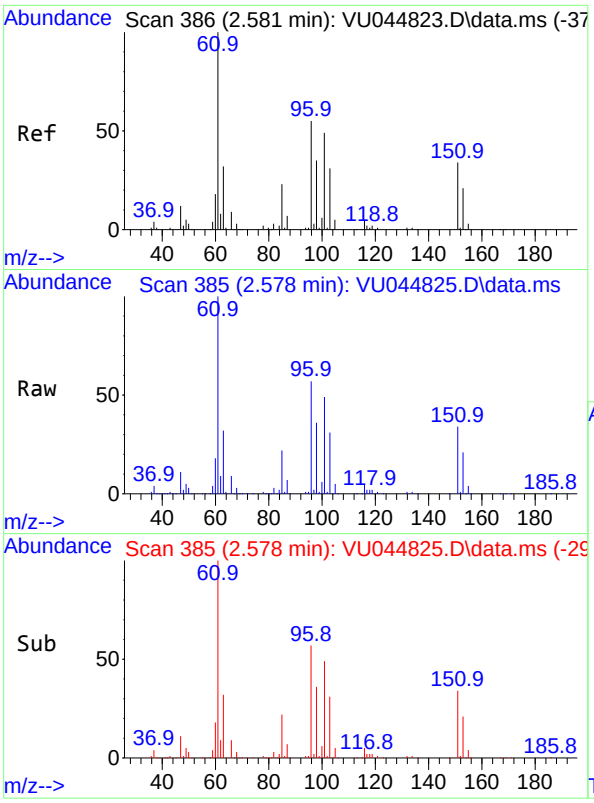
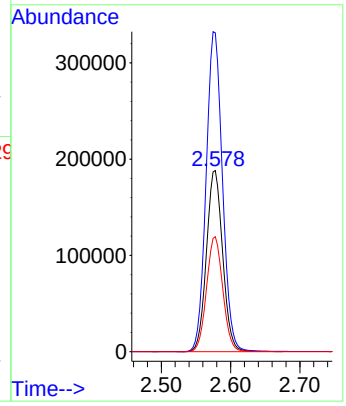
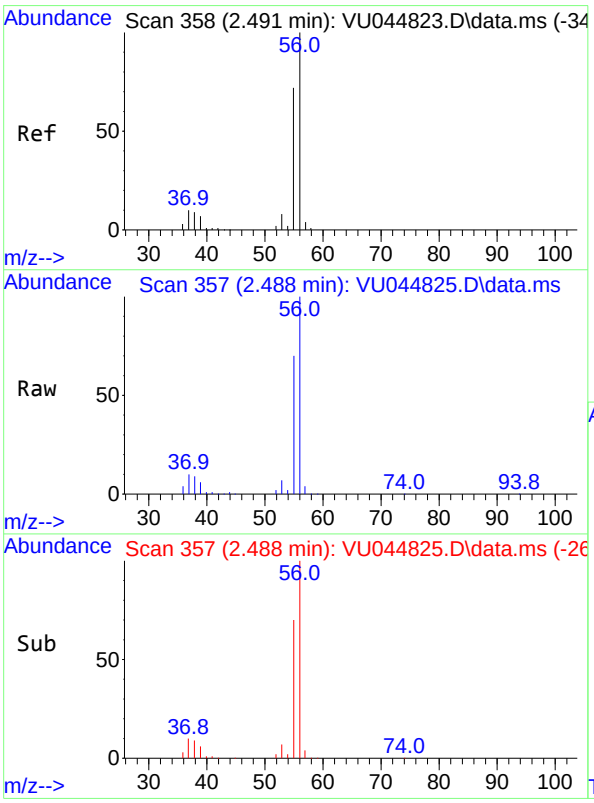


#12
1,1-Dichloroethene
Concen: 140.38 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 96 Resp: 306104

Ion	Ratio	Lower	Upper
96	100		
61	176.1	145.4	218.0
98	63.6	50.9	76.3

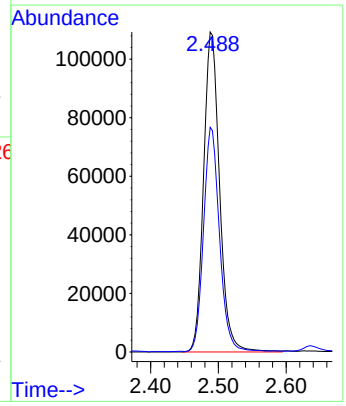




#13
Acrolein
Concen: 441.51 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 56 Resp: 179497

Ion	Ratio	Lower	Upper
56	100		
55	69.4	57.4	86.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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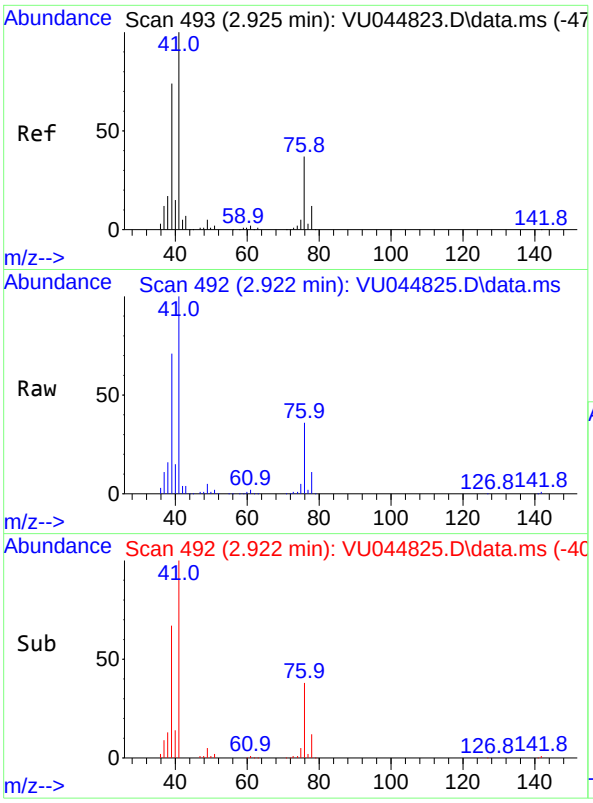
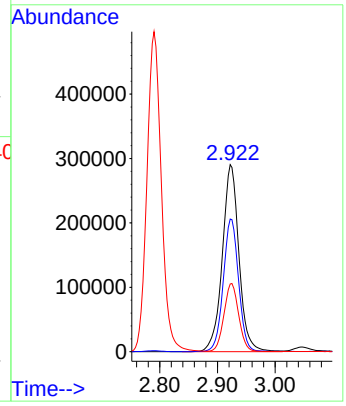
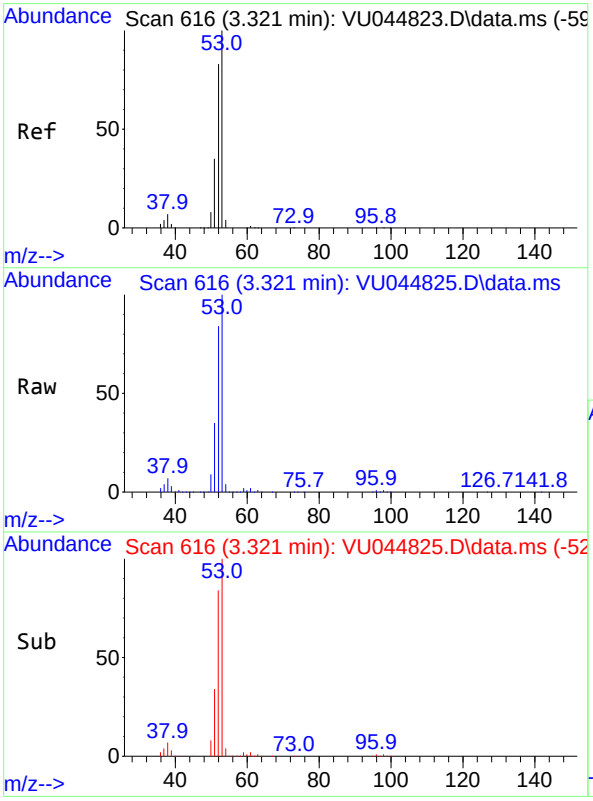


#14
Allyl chloride
Concen: 141.79 ug/l
RT: 2.922 min Scan# 492
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 41 Resp: 581016

Ion	Ratio	Lower	Upper
41	100		
39	65.3	53.0	79.6
76	32.0	25.7	38.5

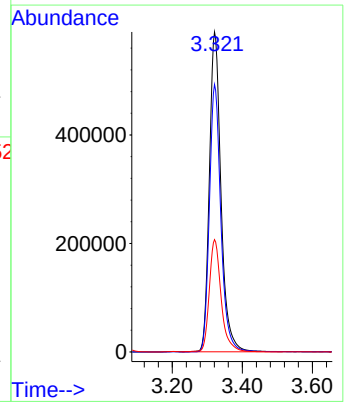




#15
Acrylonitrile
Concen: 832.71 ug/l
RT: 3.321 min Scan# 616
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 53 Resp: 1350352

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.0	99.0
51	35.6	28.6	42.8



Instrument :
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ClientSampleId :
VSTDICC150

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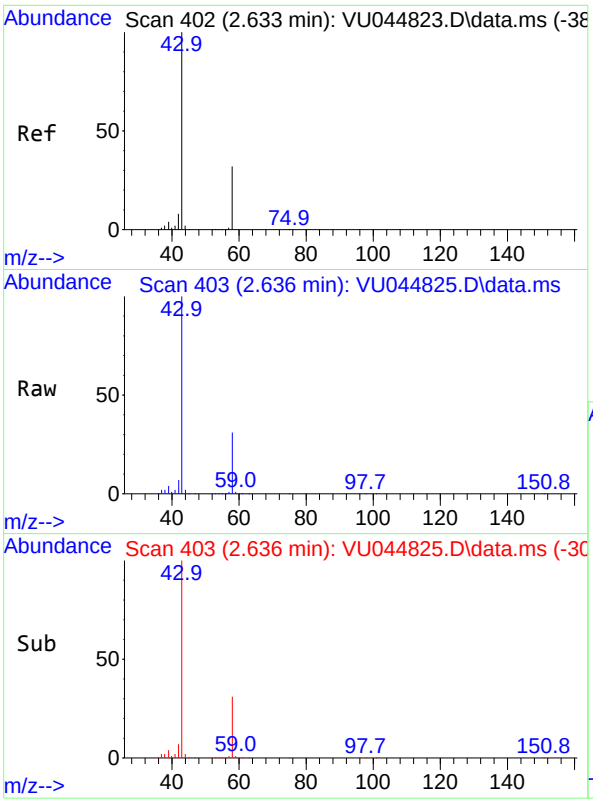
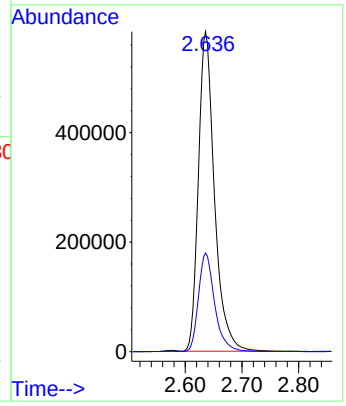
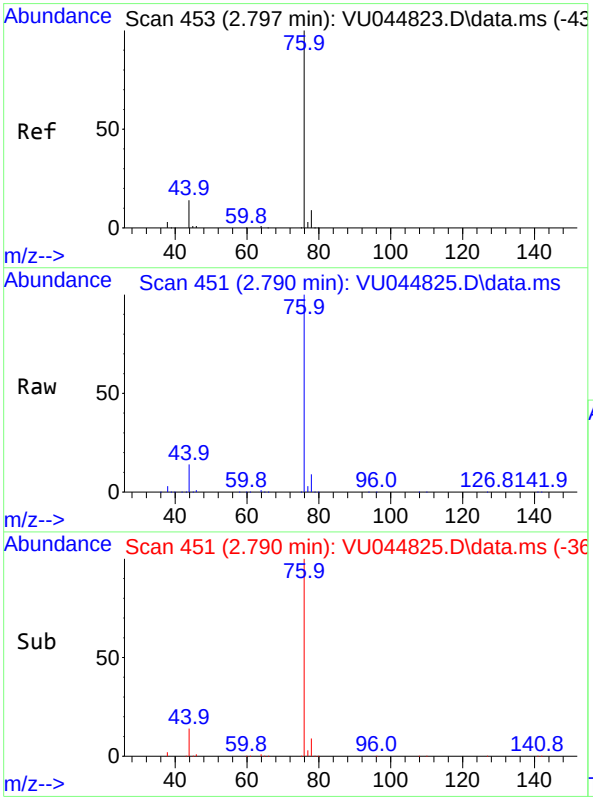


#16
Acetone
Concen: 680.15 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 1147557

Ion	Ratio	Lower	Upper
43	100		
58	30.8	25.2	37.8

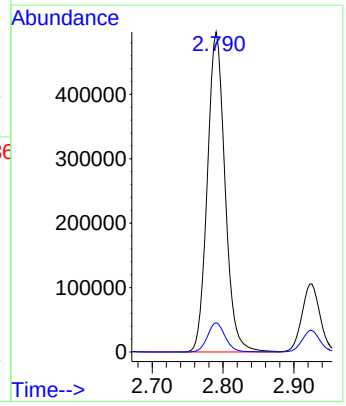




#17
Carbon Disulfide
Concen: 125.11 ug/l
RT: 2.790 min Scan# 451
Delta R.T. -0.006 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 76 Resp: 860214

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0



Instrument :
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ClientSampleId :
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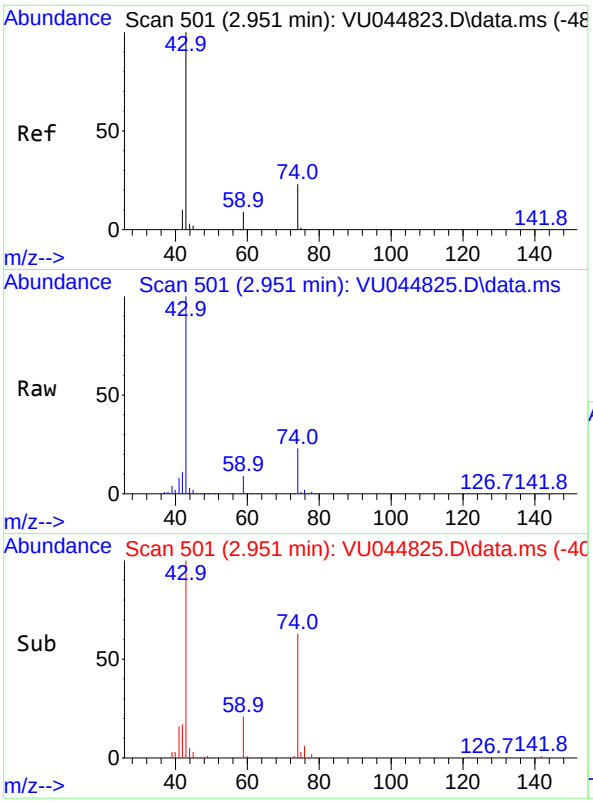
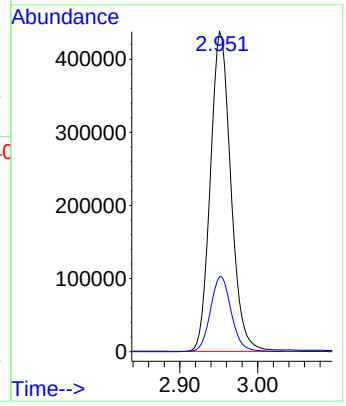
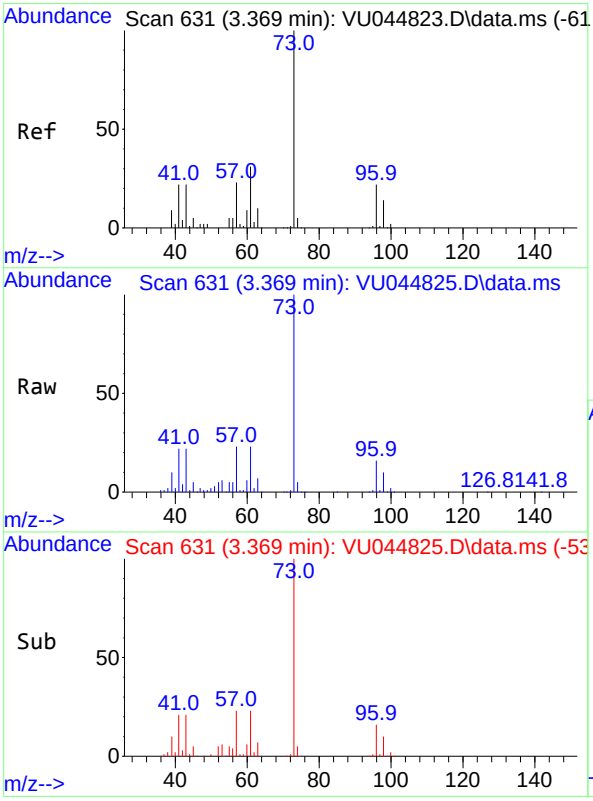


#18
Methyl Acetate
Concen: 201.33 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 800331

Ion	Ratio	Lower	Upper
43	100		
74	24.0	19.0	28.6

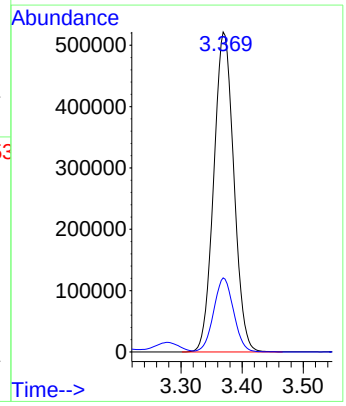




#19
Methyl tert-butyl Ether
Concen: 172.87 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 73 Resp: 1190136

Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.2	27.2



Instrument :
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ClientSampleId :
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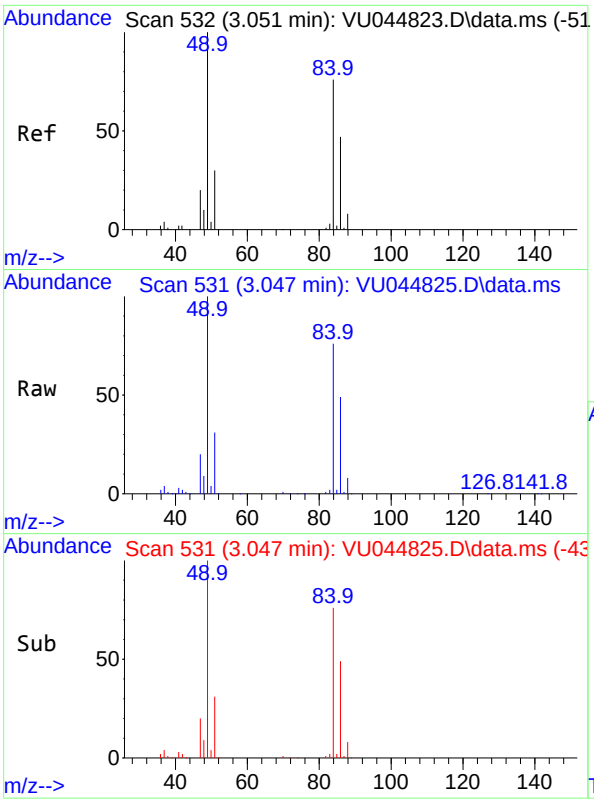
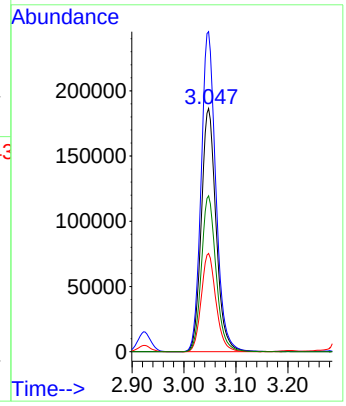
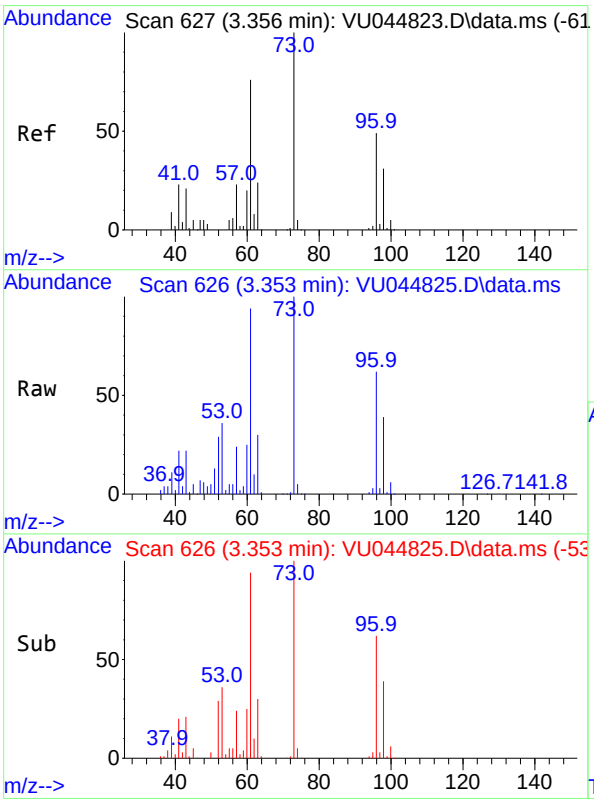


#20
Methylene Chloride
Concen: 128.53 ug/l
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 84 Resp: 367943

Ion	Ratio	Lower	Upper
84	100		
49	131.6	104.9	157.3
51	40.4	31.8	47.8
86	64.1	49.8	74.6

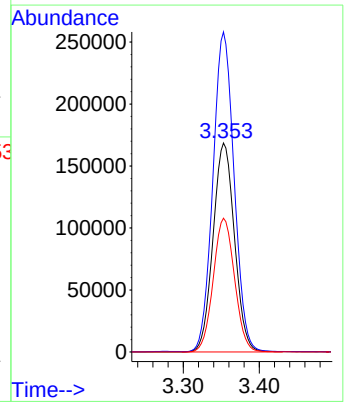




#21
trans-1,2-Dichloroethene
Concen: 137.68 ug/l
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 96 Resp: 330028

Ion	Ratio	Lower	Upper
96	100		
61	153.0	123.2	184.8
98	64.1	51.0	76.6



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ClientSampleId :
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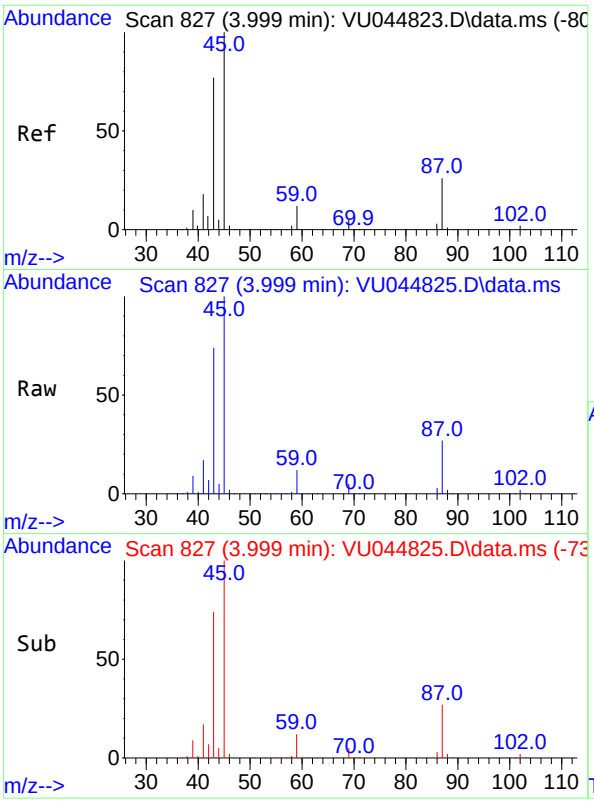
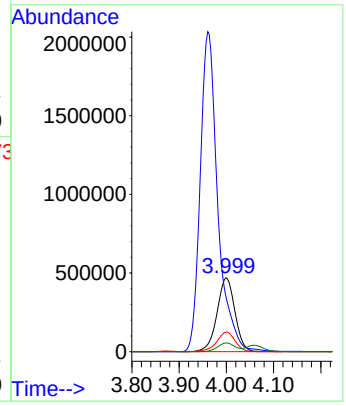
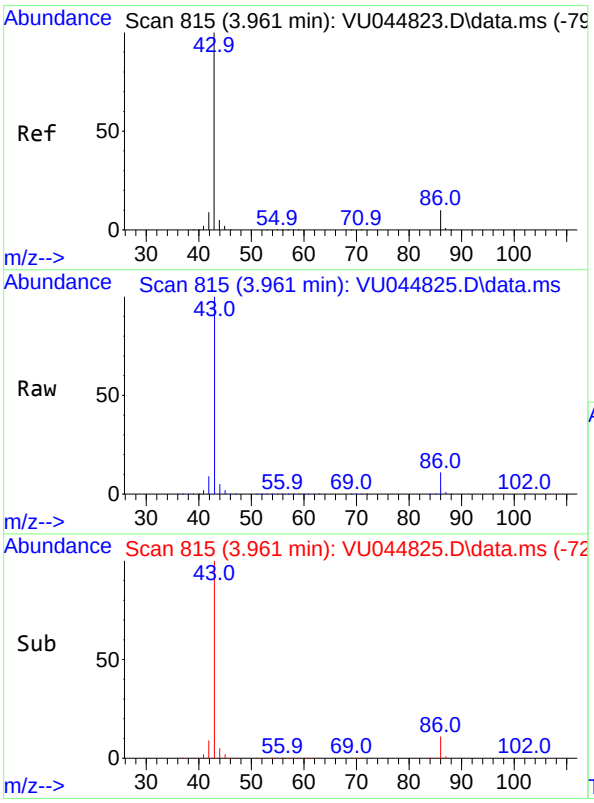


#22
Diisopropyl ether
Concen: 171.15 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 45 Resp: 1234471

Ion	Ratio	Lower	Upper
45	100		
43	73.9	62.3	93.5
87	26.5	21.0	31.4
59	11.8	9.5	14.3

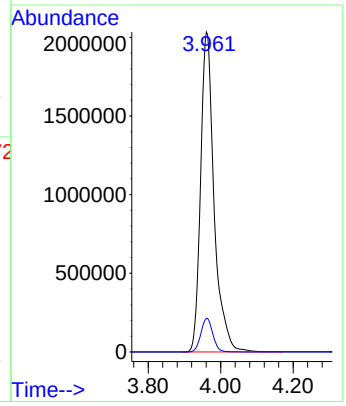




#23
Vinyl Acetate
Concen: 787.39 ug/l
RT: 3.961 min Scan# 815
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 5249450

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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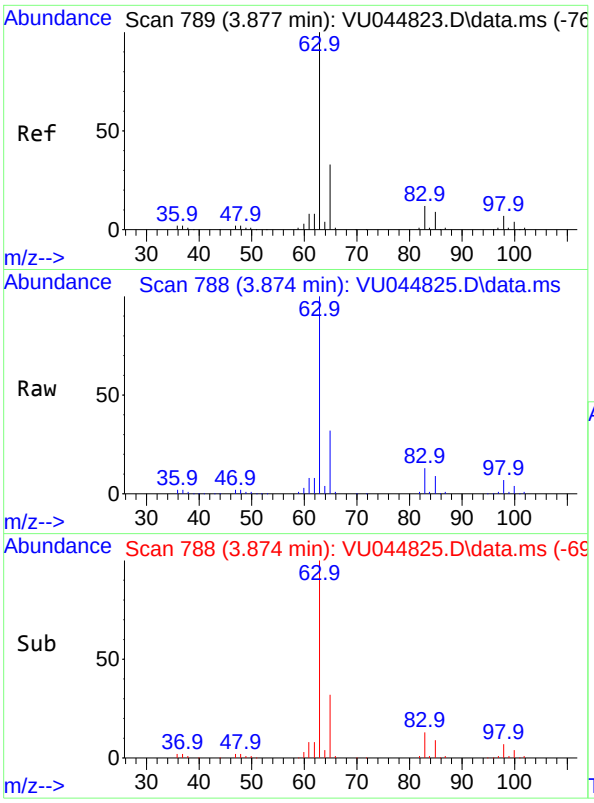
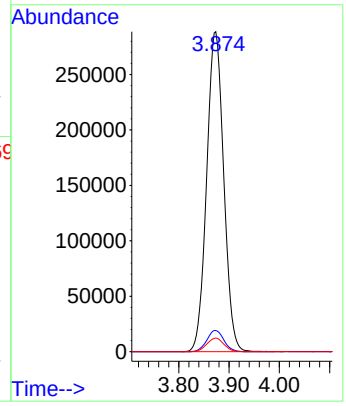
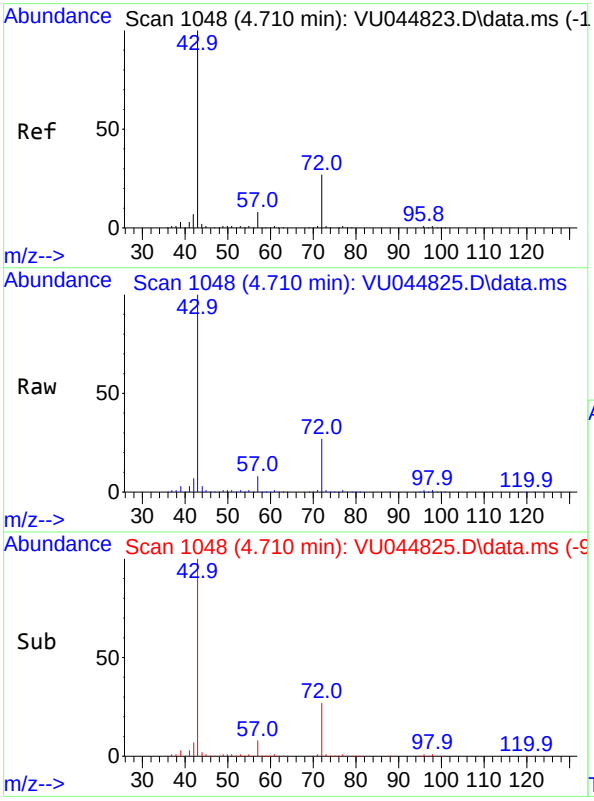


#24
1,1-Dichloroethane
Concen: 144.74 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 63 Resp: 680176

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.4
100	4.3	2.1	6.3

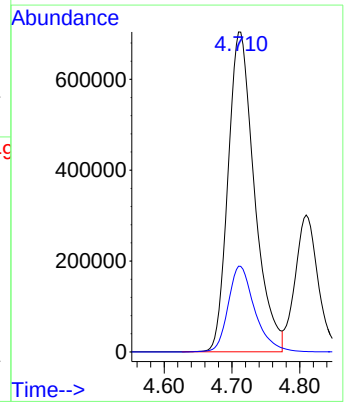




#25
2-Butanone
Concen: 786.85 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 1898204

Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.3	31.9



Instrument :
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ClientSampleId :
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Manual Integrations APPROVED
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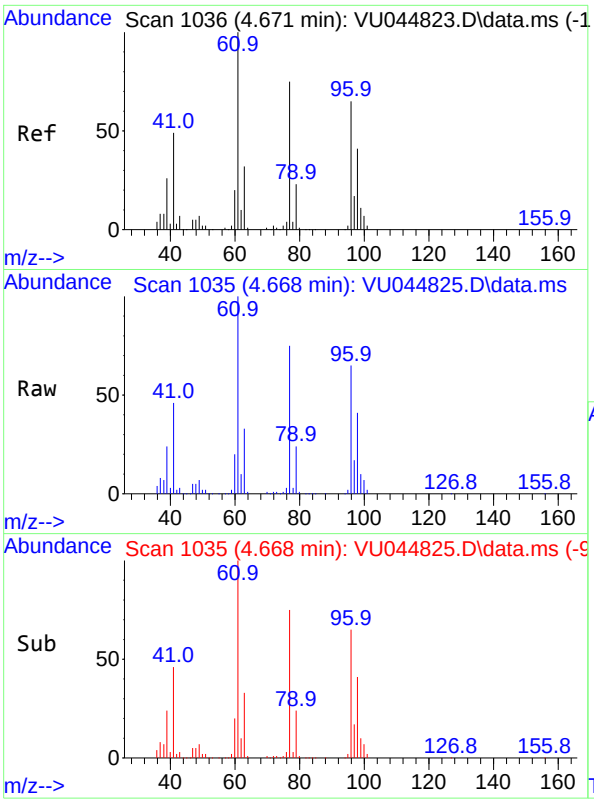
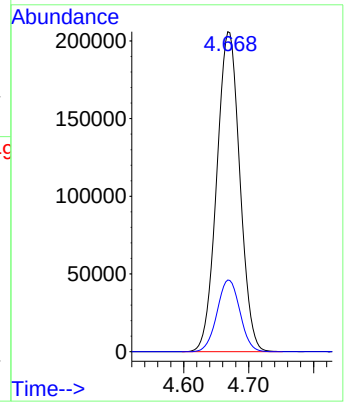
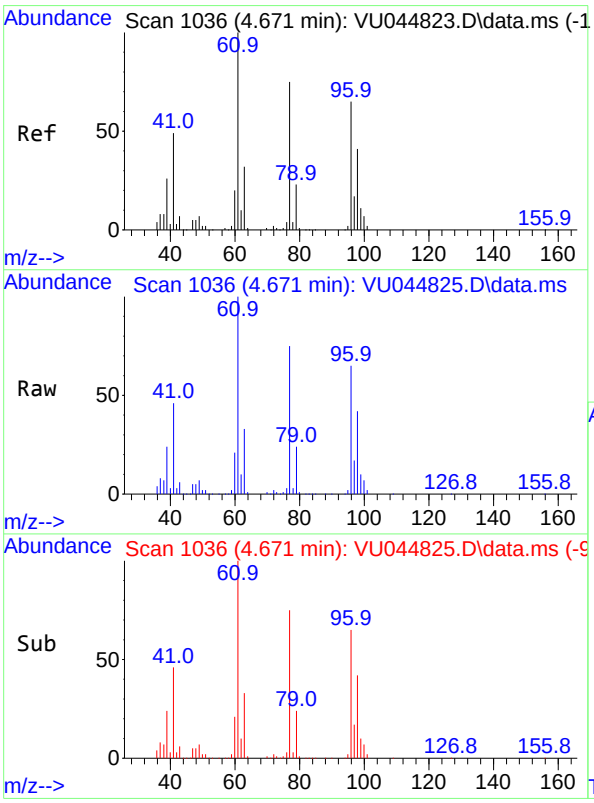


#26
2,2-Dichloropropane
Concen: 137.94 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 77 Resp: 506688

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.8	32.4

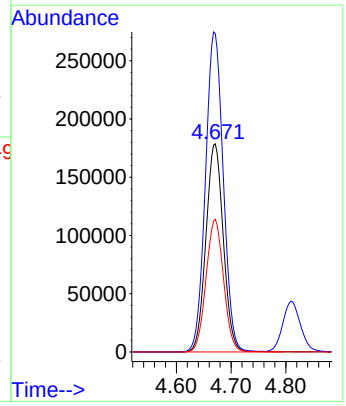




#27
cis-1,2-Dichloroethene
Concen: 145.83 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 96 Resp: 394679

Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	313.4
98	64.1	0.0	127.0



Instrument :
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ClientSampleId :
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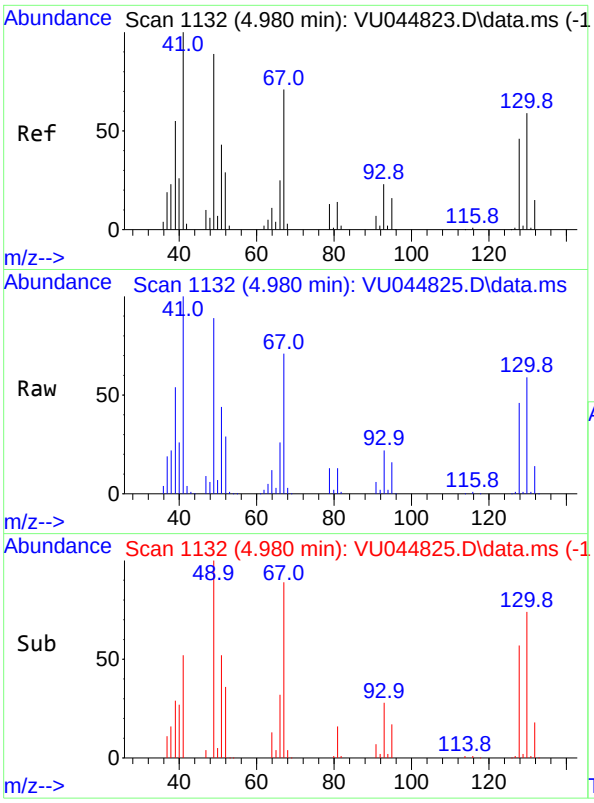
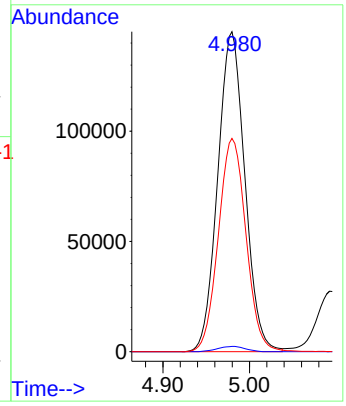
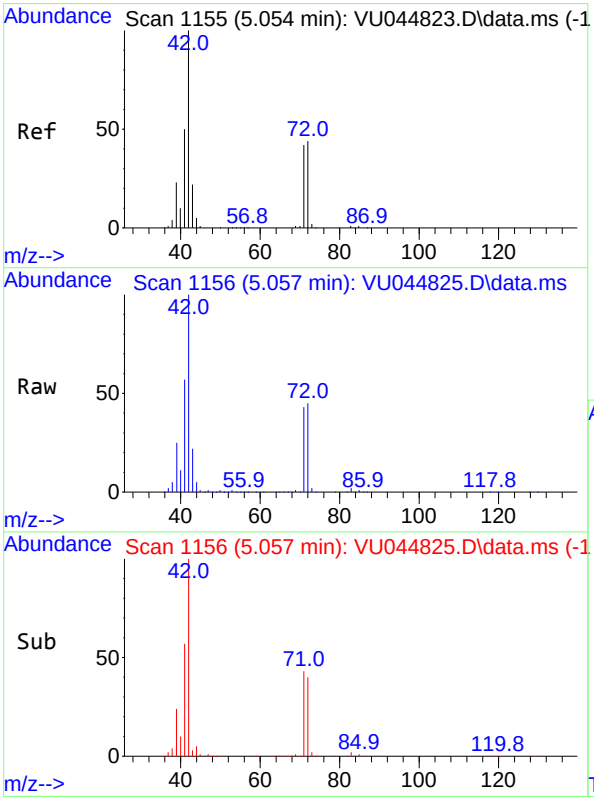


#28
Bromochloromethane
Concen: 141.16 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 49 Resp: 315527

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	68.0	53.4	80.2

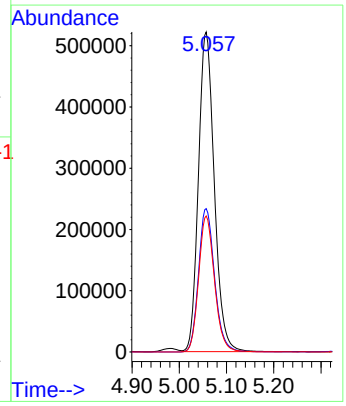




#29
Tetrahydrofuran
Concen: 902.79 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 42 Resp: 1214721

Ion	Ratio	Lower	Upper
42	100		
72	45.6	36.2	54.4
71	42.6	34.1	51.1



Instrument :
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ClientSampleId :
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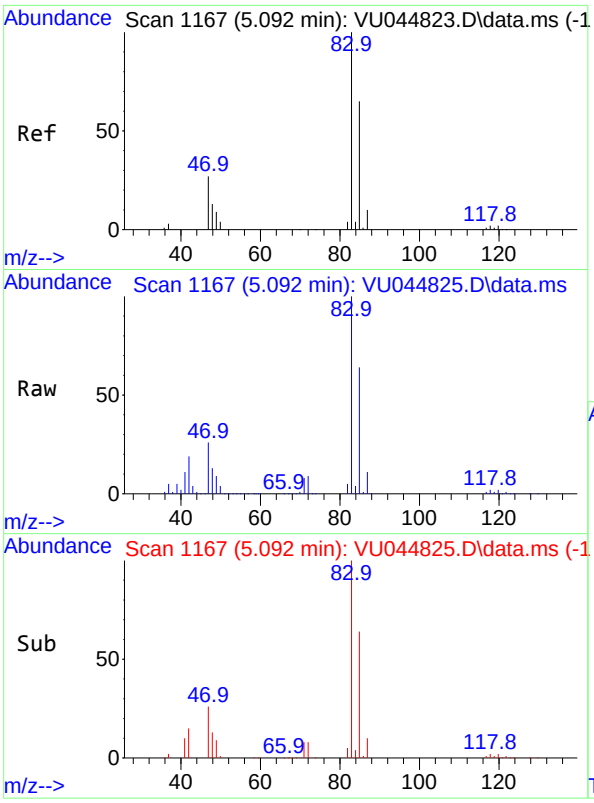
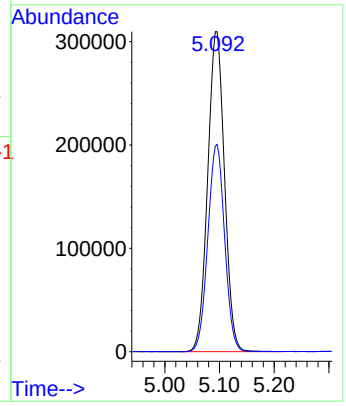
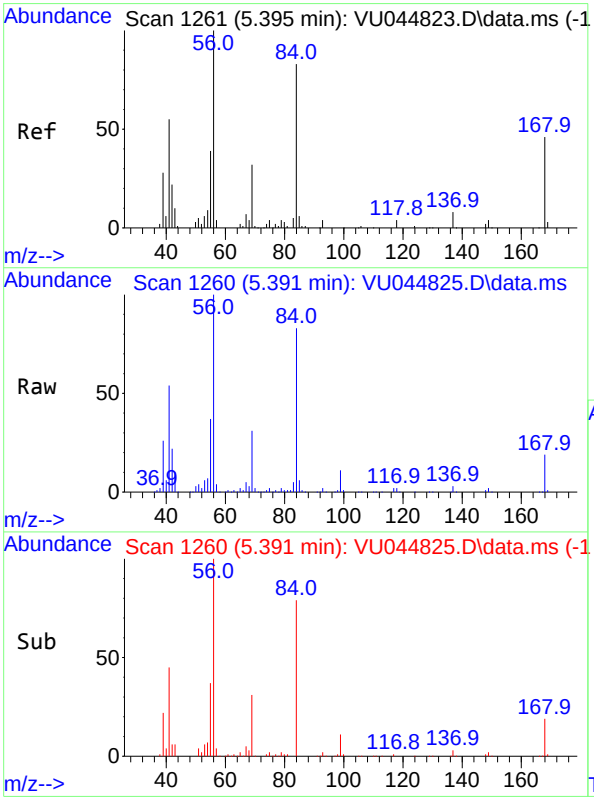


#30
Chloroform
Concen: 143.85 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 83 Resp: 660238

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1

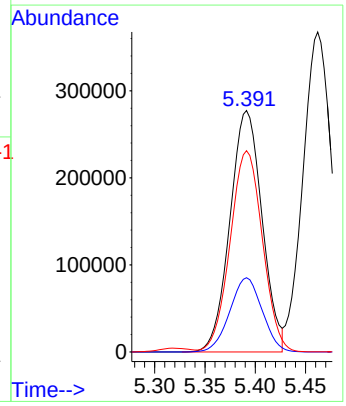




#31
Cyclohexane
Concen: 151.58 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 56 Resp: 617282

Ion	Ratio	Lower	Upper
56	100		
69	30.8	25.2	37.8
84	82.0	66.4	99.6



Instrument :
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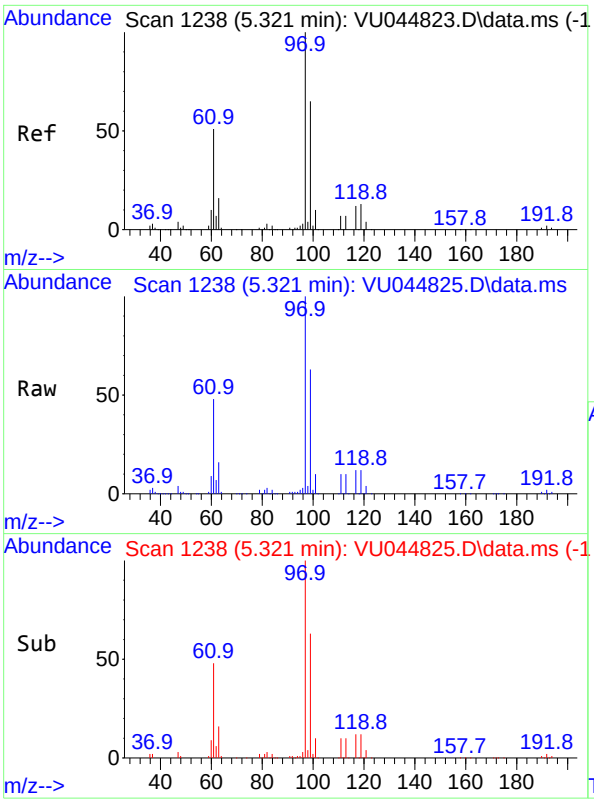
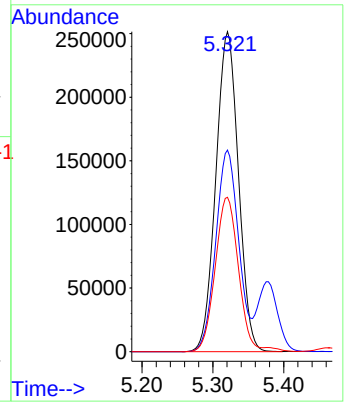
9/27/2021 11:02:48 AM

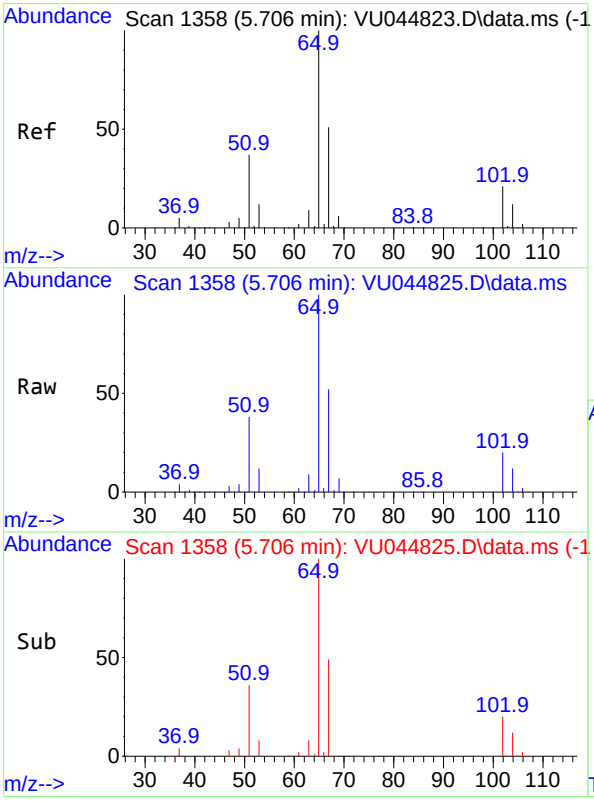


#32
1,1,1-Trichloroethane
Concen: 146.56 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 97 Resp: 557962

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.9	76.3
61	49.4	40.7	61.1

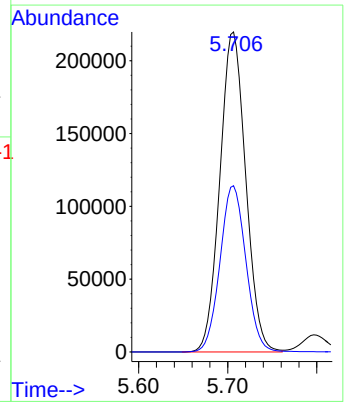




#33
1,2-Dichloroethane-d4
Concen: 154.41 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 65 Resp: 442982

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.8



Instrument :
MSVOA_U
ClientSampleId :
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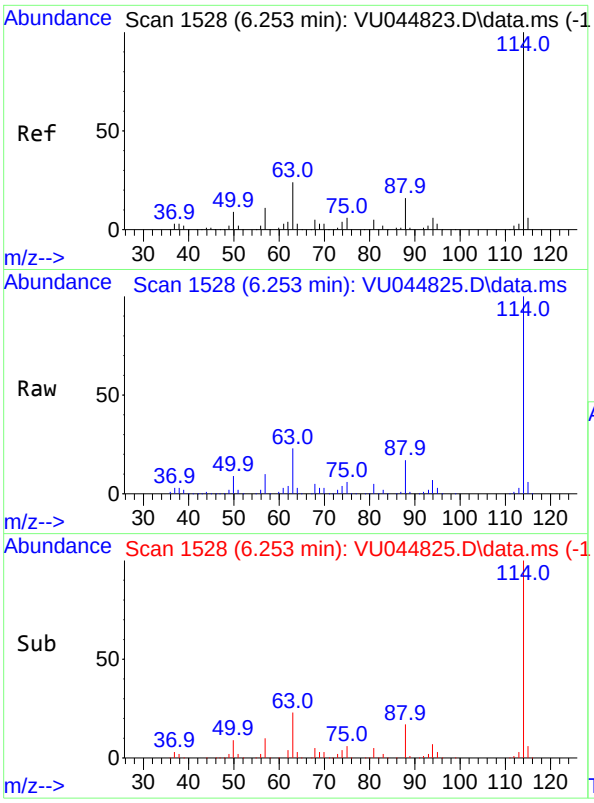
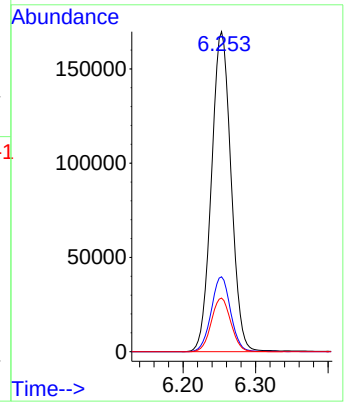
9/27/2021 11:02:48 AM

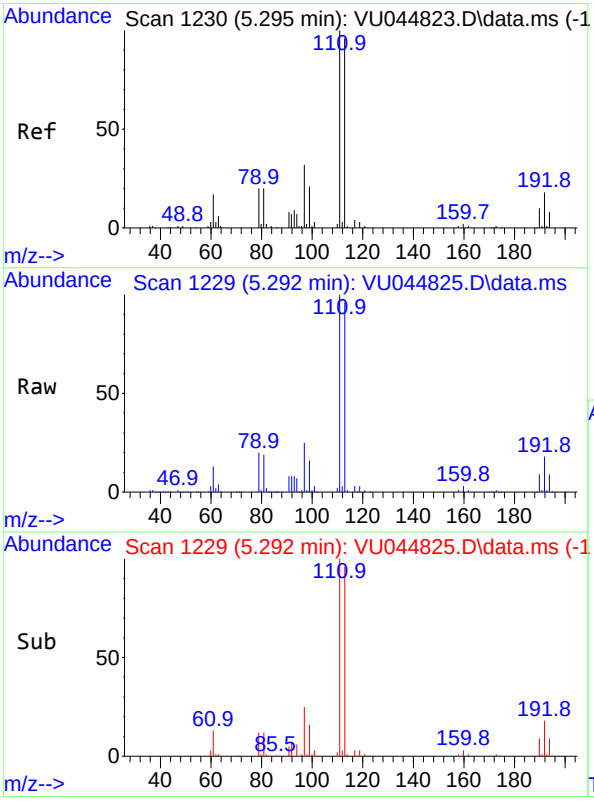


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:114 Resp: 318581

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	47.8
88	16.7	0.0	32.8

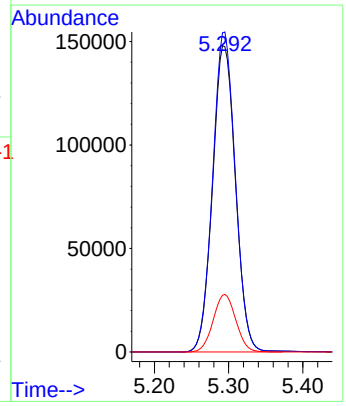




#35
Dibromofluoromethane
Concen: 143.79 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:113 Resp: 317734

Ion	Ratio	Lower	Upper
113	100		
111	102.8	84.1	126.1
192	18.5	14.8	22.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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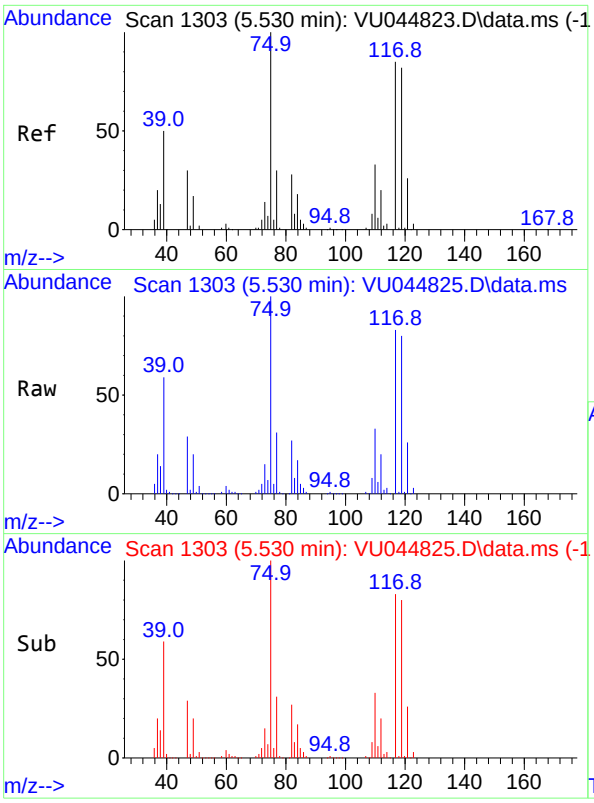
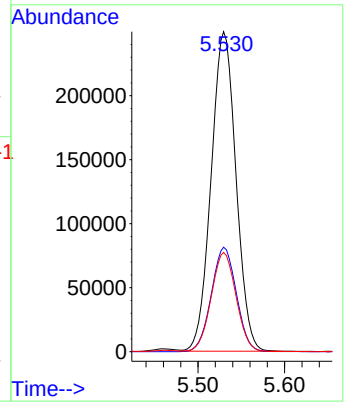
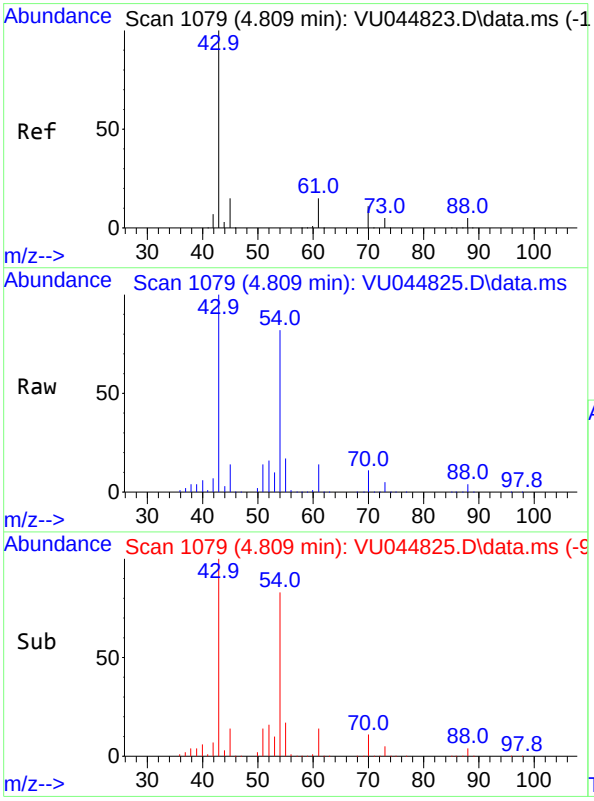


#36
1,1-Dichloropropene
Concen: 140.39 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 75 Resp: 497942

Ion	Ratio	Lower	Upper
75	100		
110	33.0	16.3	48.9
77	31.0	25.0	37.4

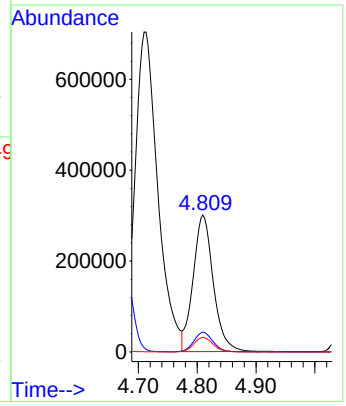




#37
Ethyl Acetate
Concen: 163.10 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 714603

Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.9	16.3
70	10.3	8.2	12.4



Instrument :
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ClientSampleId :
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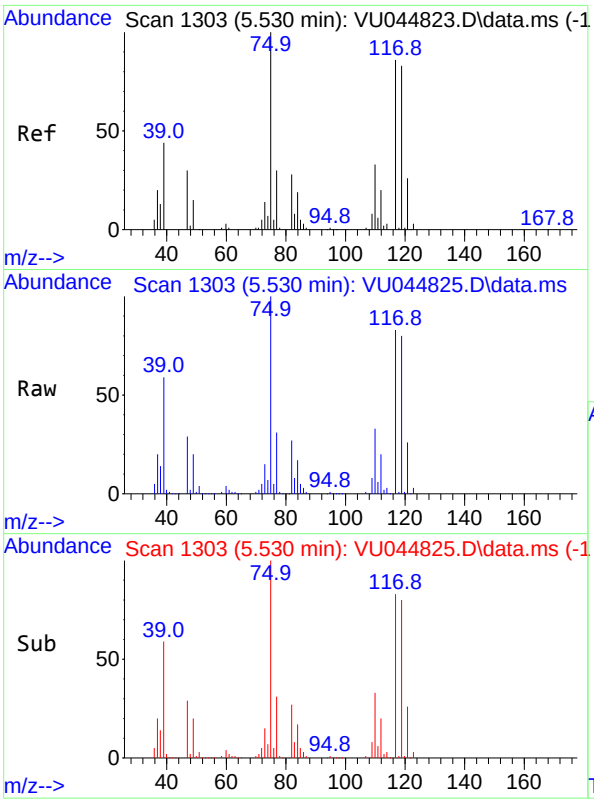
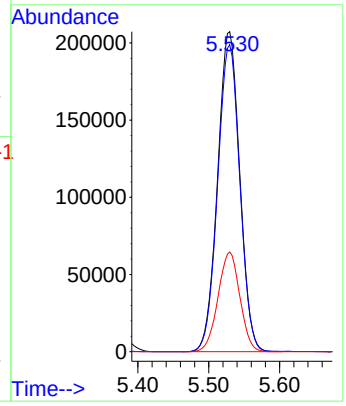
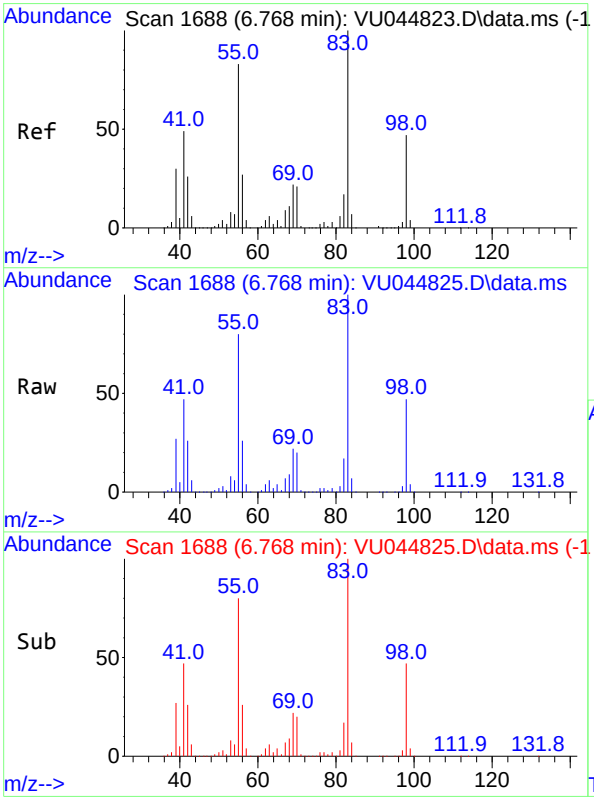


#38
Carbon Tetrachloride
Concen: 140.32 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:117 Resp: 449572

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.4	116.2
121	31.2	24.5	36.7

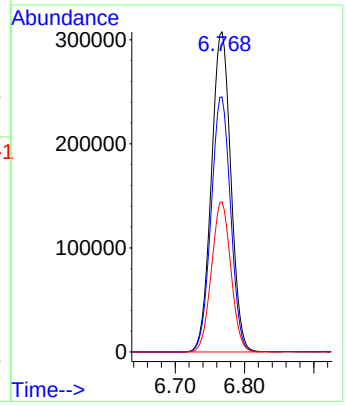




#39
Methylcyclohexane
Concen: 156.75 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 83 Resp: 601445

Ion	Ratio	Lower	Upper
83	100		
55	79.7	66.2	99.4
98	46.9	37.5	56.3



Instrument :
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ClientSampleId :
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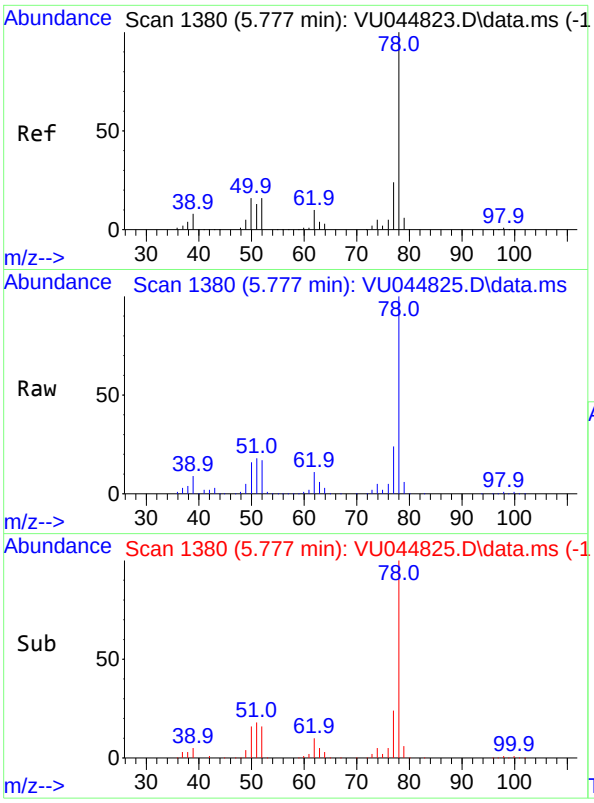
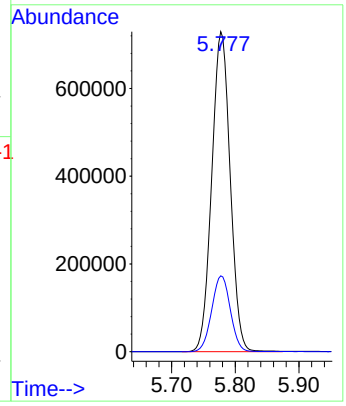
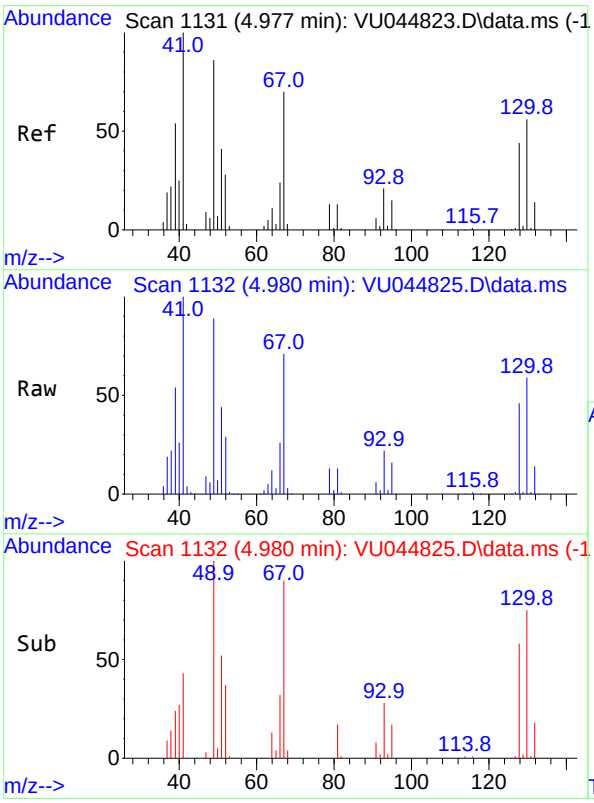


#40
Benzene
Concen: 139.31 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 78 Resp: 1466324

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7

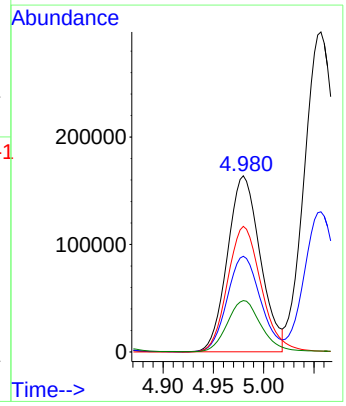




#41
Methacrylonitrile
Concen: 166.38 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 41 Resp: 371940

Ion	Ratio	Lower	Upper
41	100		
39	55.1	44.4	66.6
67	73.7	58.1	87.1
52	30.5	23.8	35.8



Instrument :
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ClientSampleId :
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Manual Integrations APPROVED
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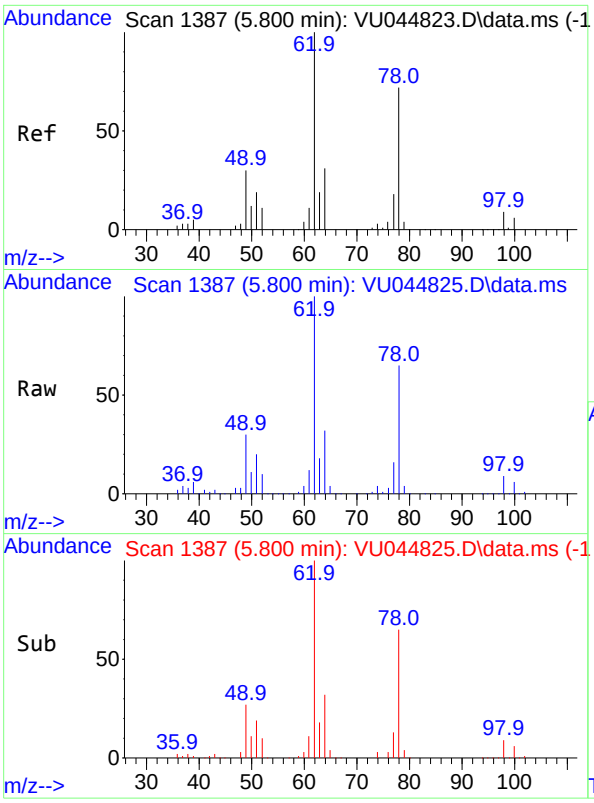
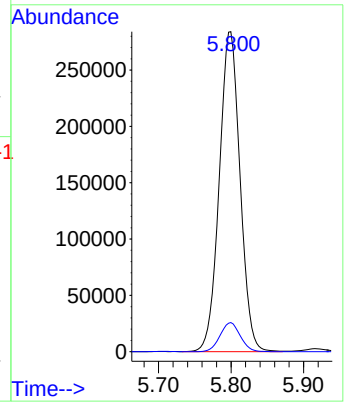
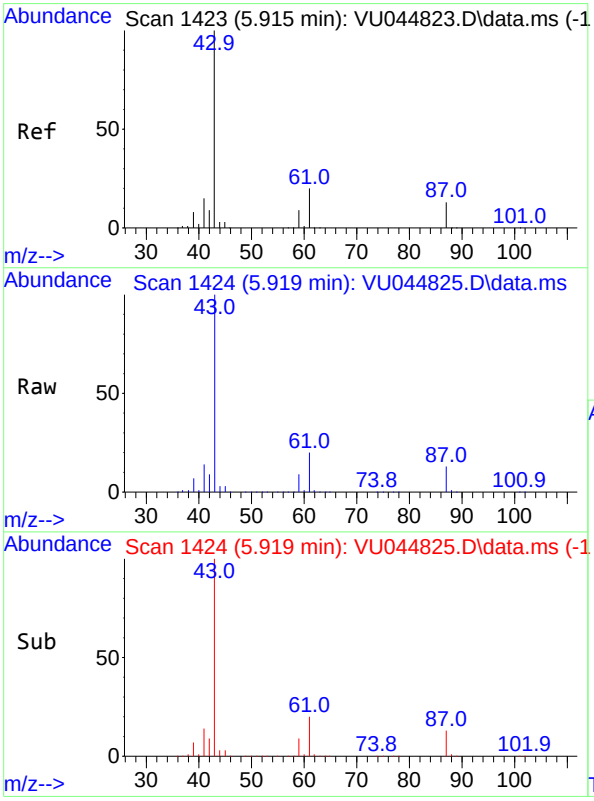


#42
1,2-Dichloroethane
Concen: 149.48 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 62 Resp: 565962

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.8

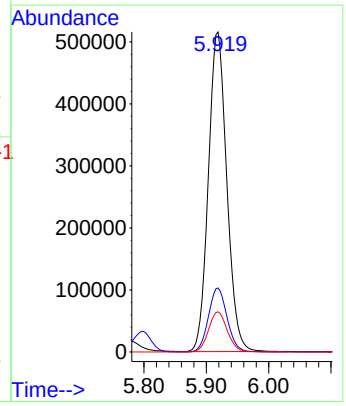




#43
Isopropyl Acetate
Concen: 170.92 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 1058221

Ion	Ratio	Lower	Upper
43	100		
61	20.2	16.1	24.1
87	12.8	10.3	15.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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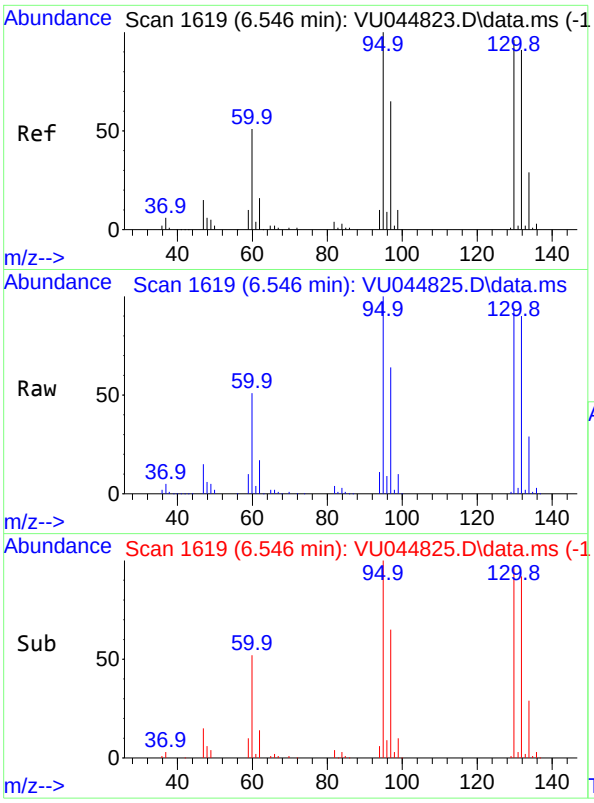
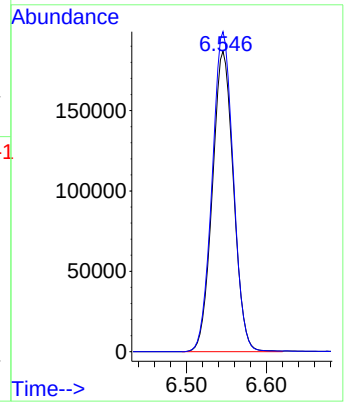
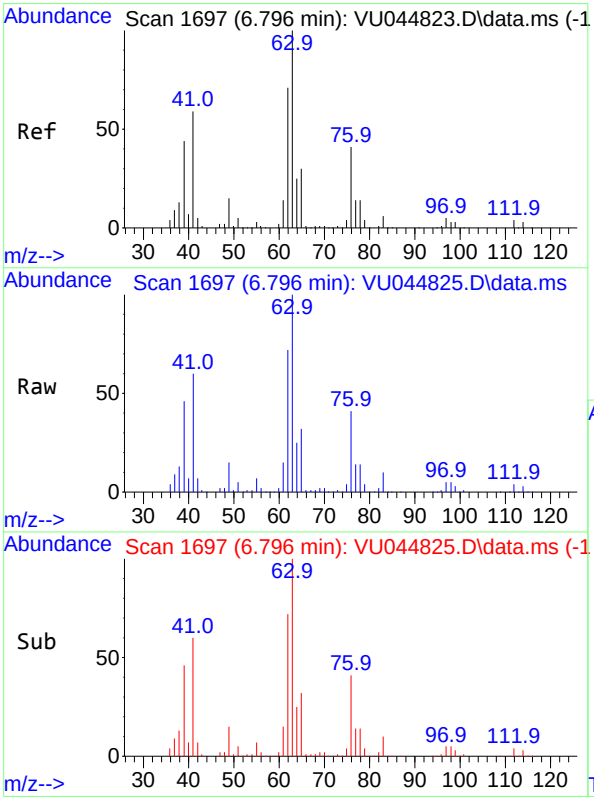


#44
Trichloroethene
Concen: 141.17 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:130 Resp: 343083

Ion	Ratio	Lower	Upper
130	100		
95	106.5	0.0	209.0

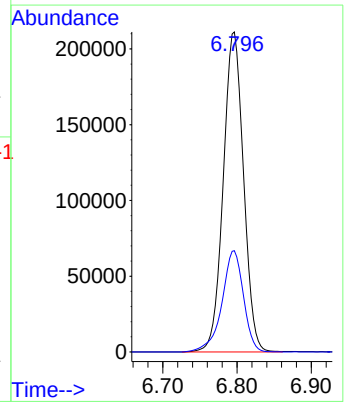




#45
1,2-Dichloropropane
Concen: 138.94 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 63 Resp: 401351

Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.9	35.9



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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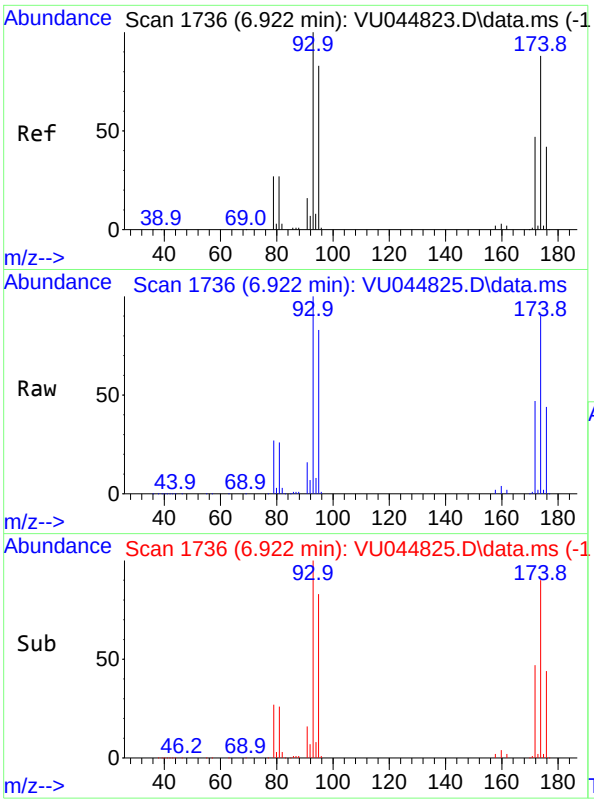
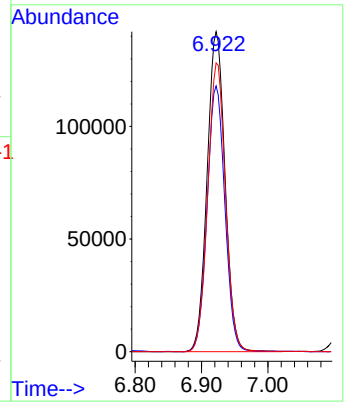
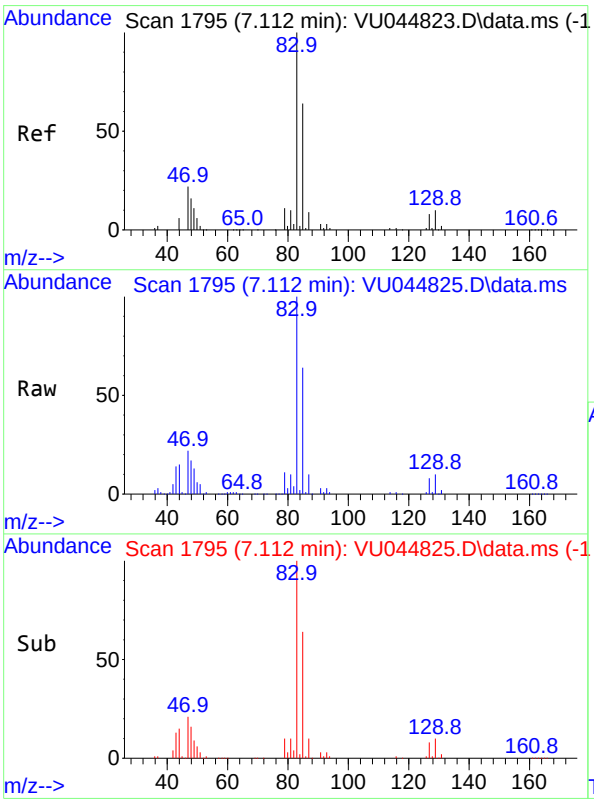


#46
Dibromomethane
Concen: 143.25 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 93 Resp: 266264

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.6	98.4
174	89.4	70.7	106.1

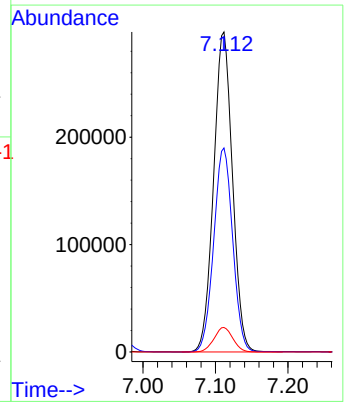




#47
Bromodichloromethane
Concen: 147.19 ug/l
RT: 7.112 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 83 Resp: 537569

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.6	77.4
127	7.6	6.2	9.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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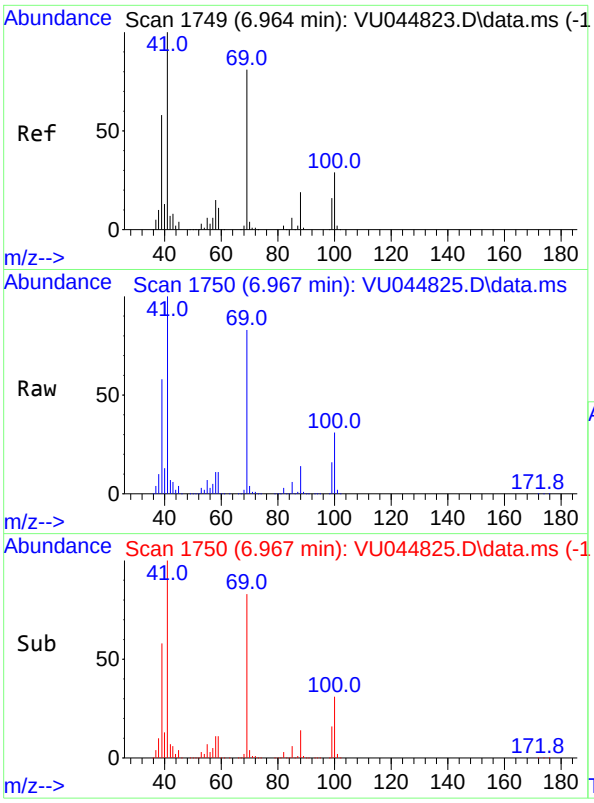
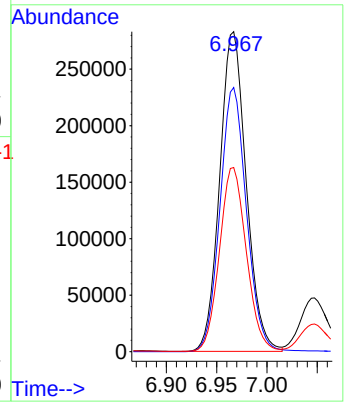
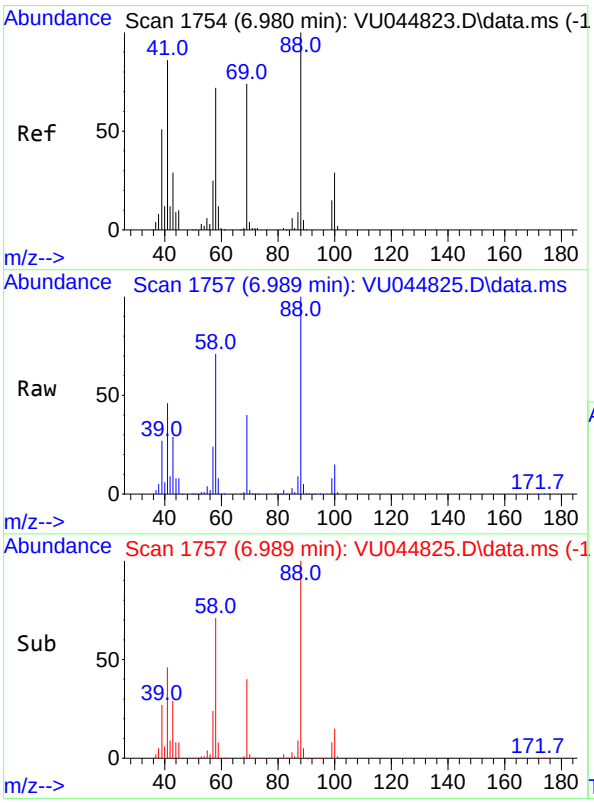


#48
Methyl methacrylate
Concen: 172.19 ug/l
RT: 6.967 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 41 Resp: 517864

Ion	Ratio	Lower	Upper
41	100		
69	83.2	65.6	98.4
39	58.3	46.2	69.4

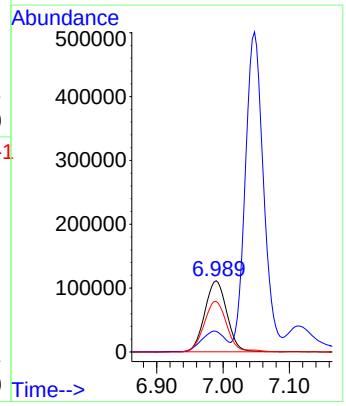




#49
1,4-Dioxane
Concen: 3269.31 ug/l
RT: 6.989 min Scan# 1757
Delta R.T. 0.010 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 88 Resp: 256312

Ion	Ratio	Lower	Upper
88	100		
43	31.7	25.8	38.6
58	74.6	61.3	91.9



Instrument :
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ClientSampleId :
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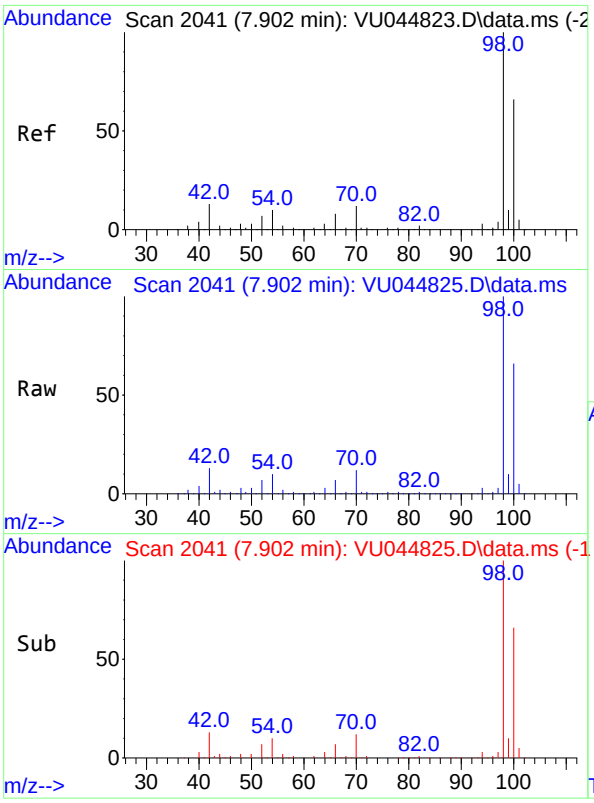
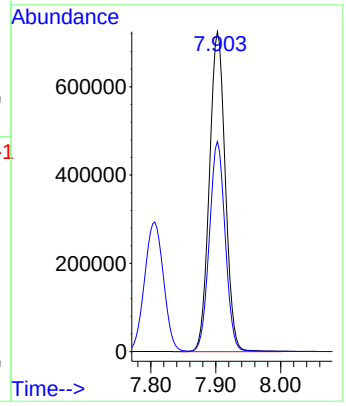
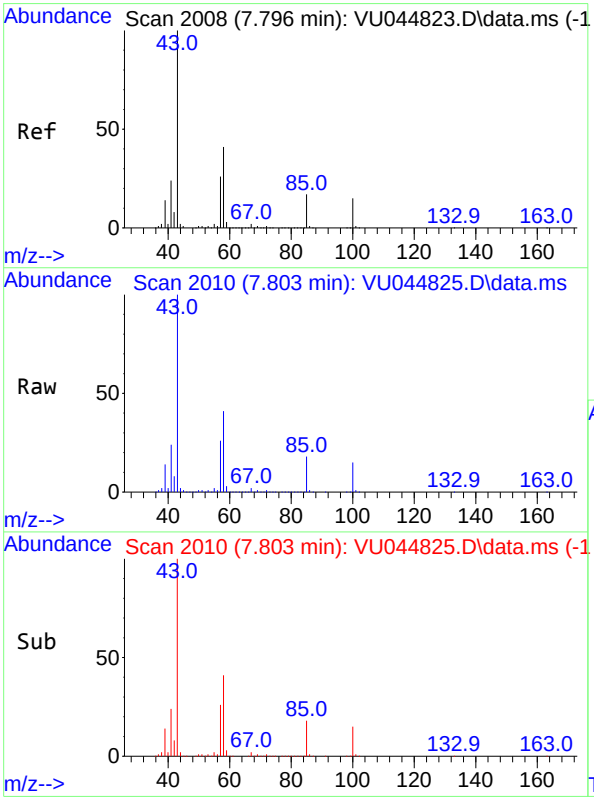


#50
Toluene-d8
Concen: 145.66 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 98 Resp: 1235746

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7

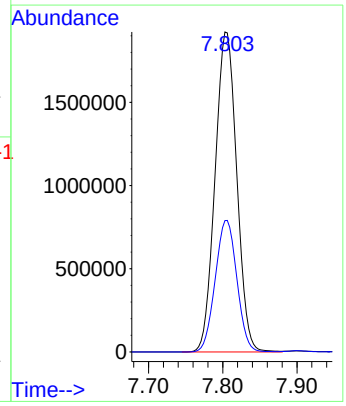




#51
4-Methyl-2-Pentanone
Concen: 872.91 ug/l
RT: 7.803 min Scan# 2010
Delta R.T. 0.006 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 3897467

Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.4	48.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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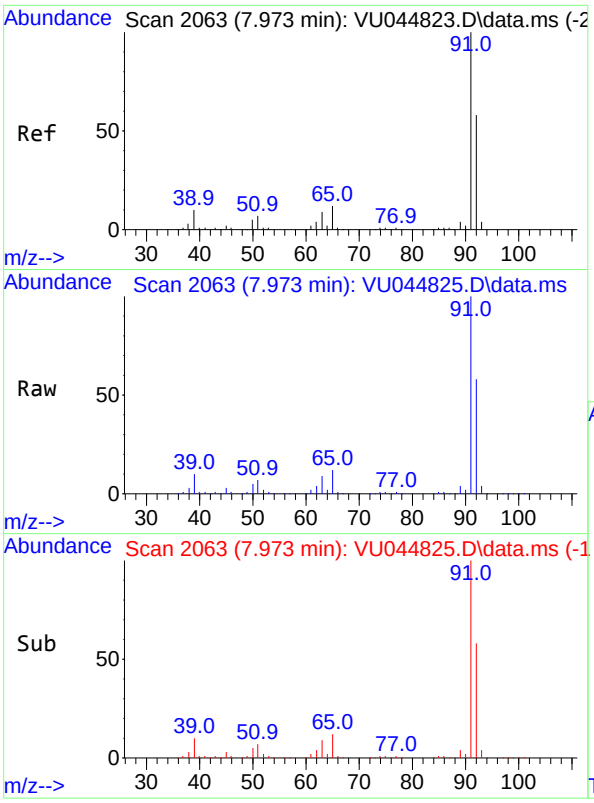
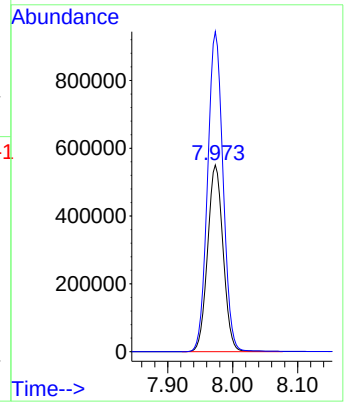
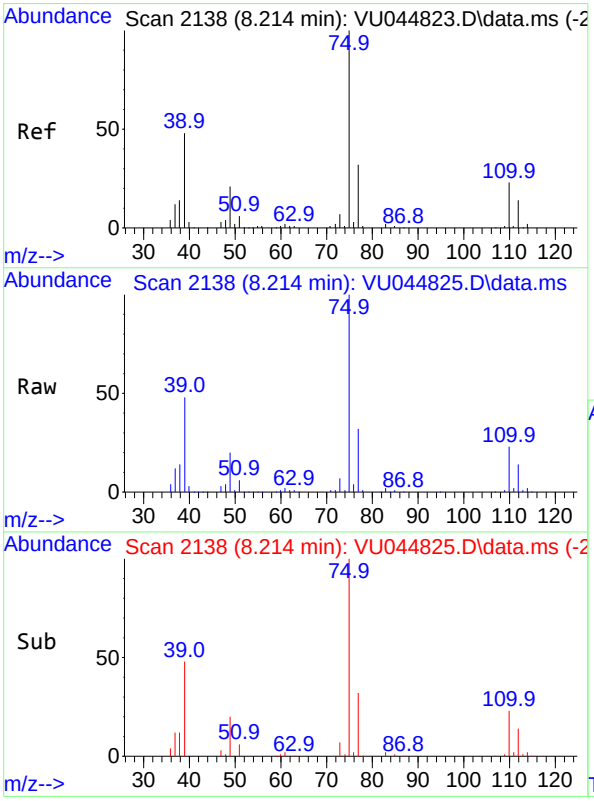


#52
Toluene
Concen: 147.09 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 92 Resp: 916939

Ion	Ratio	Lower	Upper
92	100		
91	171.0	136.9	205.3

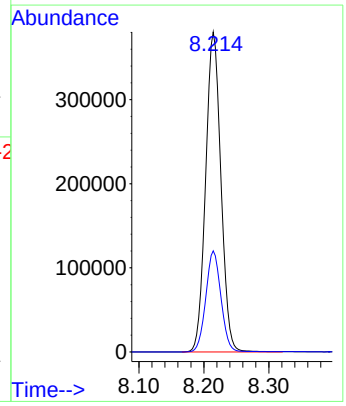




#53
t-1,3-Dichloropropene
Concen: 157.08 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 75 Resp: 622830

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4



Instrument :
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ClientSampleId :
VSTDICC150

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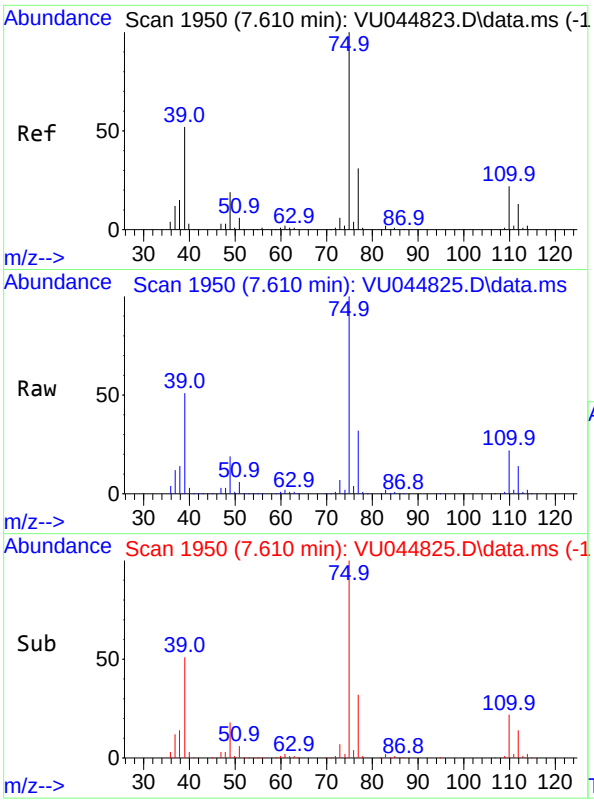
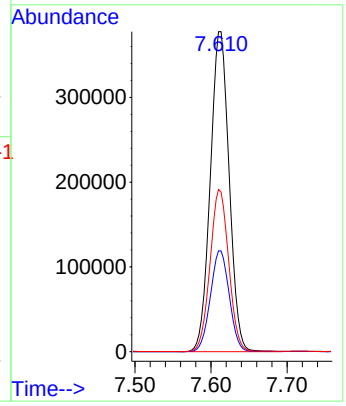
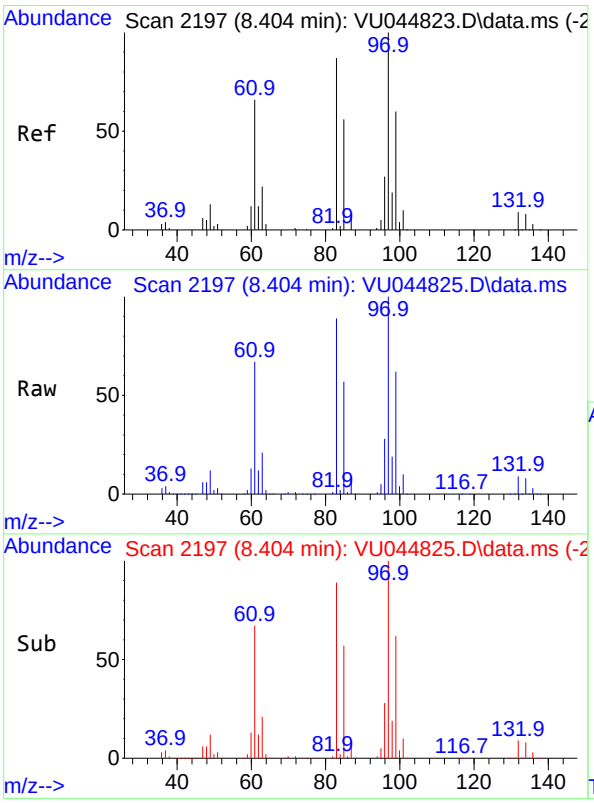


#54
cis-1,3-Dichloropropene
Concen: 151.79 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 75 Resp: 648870

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.6
39	50.7	41.4	62.2

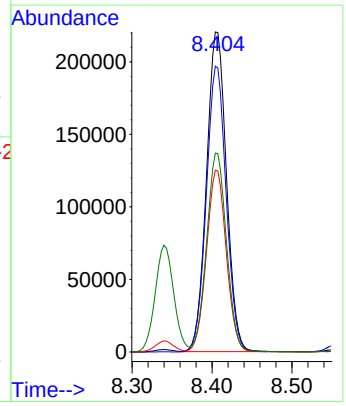




#55
1,1,2-Trichloroethane
Concen: 145.53 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 97 Resp: 383006

Ion	Ratio	Lower	Upper
97	100		
83	89.3	69.7	104.5
85	56.8	44.8	67.2
99	62.1	49.3	73.9



Instrument :
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ClientSampleId :
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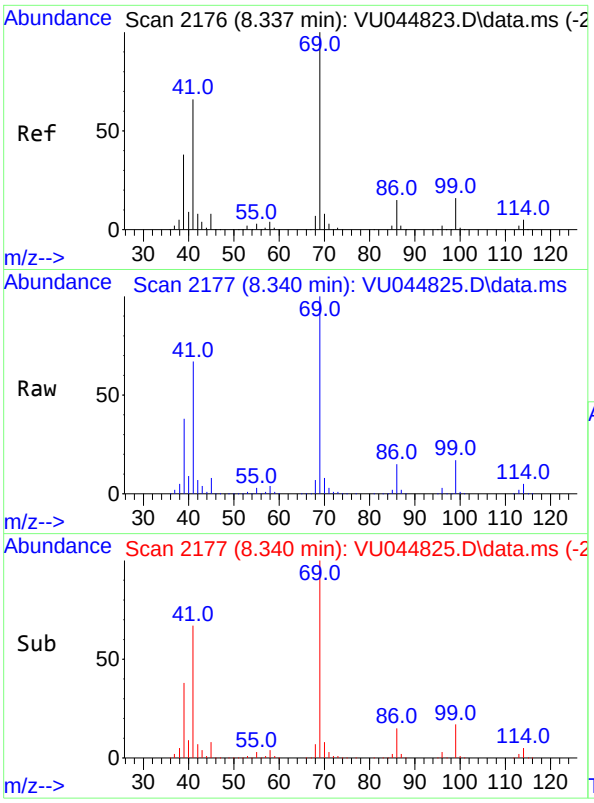
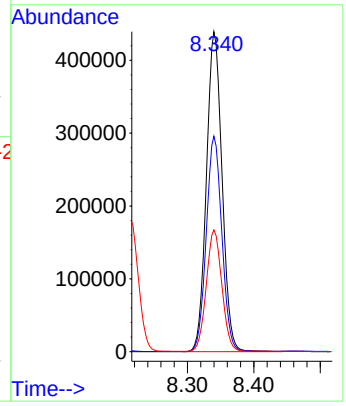
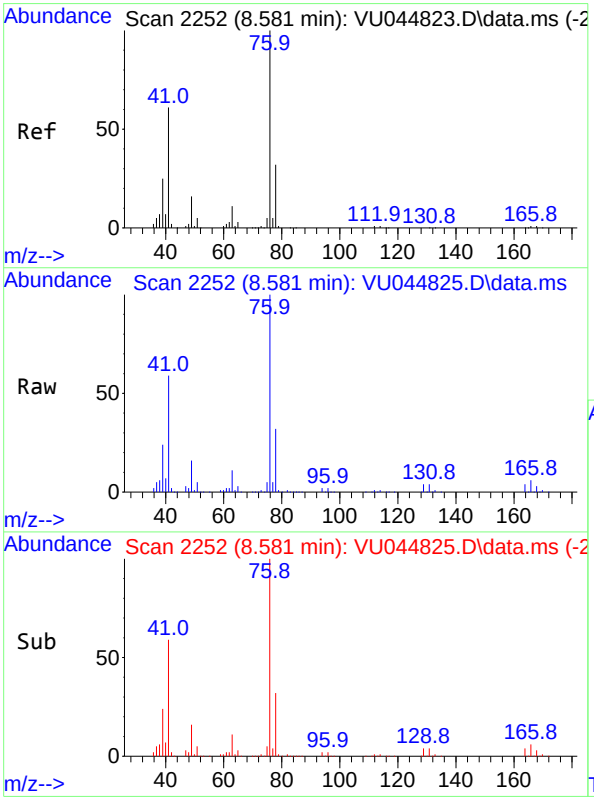


#56
Ethyl methacrylate
Concen: 178.46 ug/l
RT: 8.340 min Scan# 2177
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 69 Resp: 718271

Ion	Ratio	Lower	Upper
69	100		
41	67.3	53.5	80.3
39	37.7	31.1	46.7

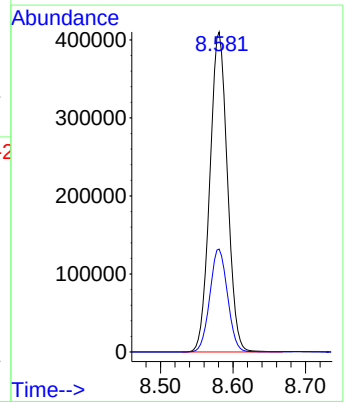




#57
1,3-Dichloropropane
Concen: 147.34 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 76 Resp: 688725

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.7	38.5



Instrument :
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ClientSampleId :
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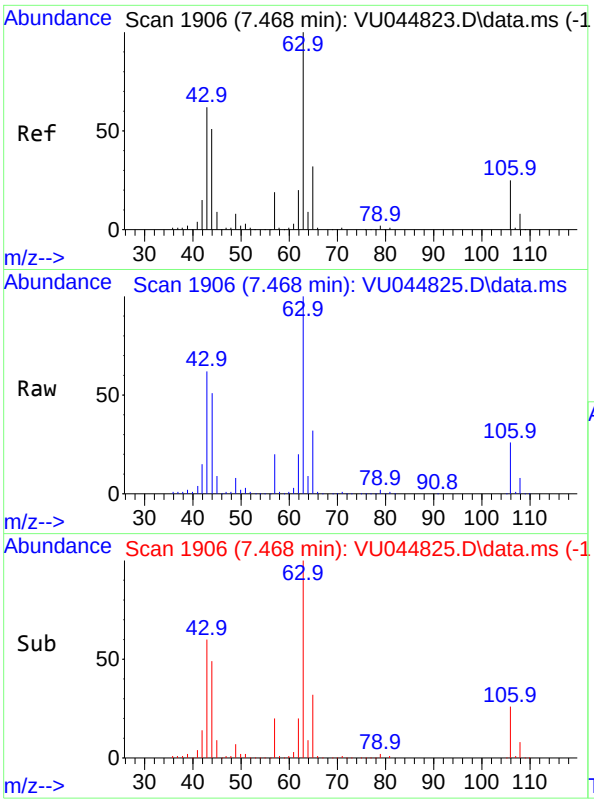
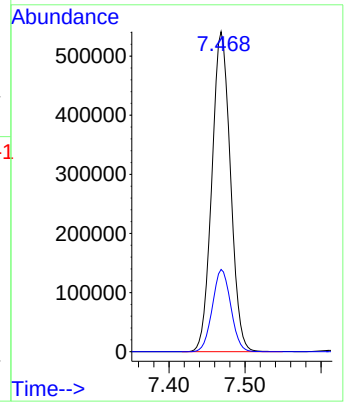
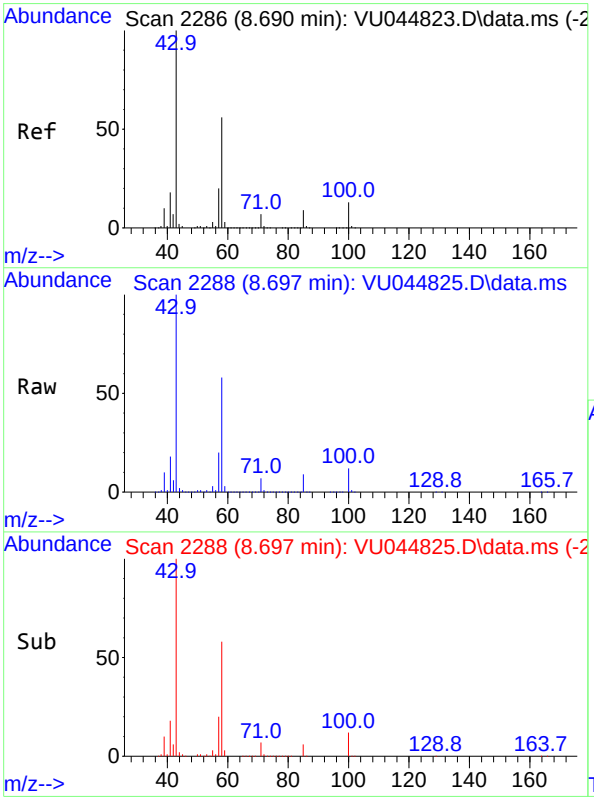


#58
2-Chloroethyl Vinyl ether
Concen: 773.93 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 63 Resp: 916904

Ion	Ratio	Lower	Upper
63	100		
106	25.5	20.5	30.7

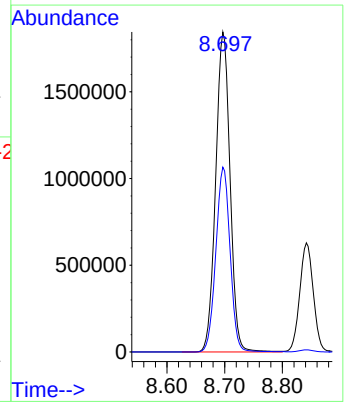




#59
2-Hexanone
Concen: 892.24 ug/l
RT: 8.697 min Scan# 2288
Delta R.T. 0.006 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 3183646

Ion	Ratio	Lower	Upper
43	100		
58	57.4	28.0	84.0



Instrument :
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ClientSampleId :
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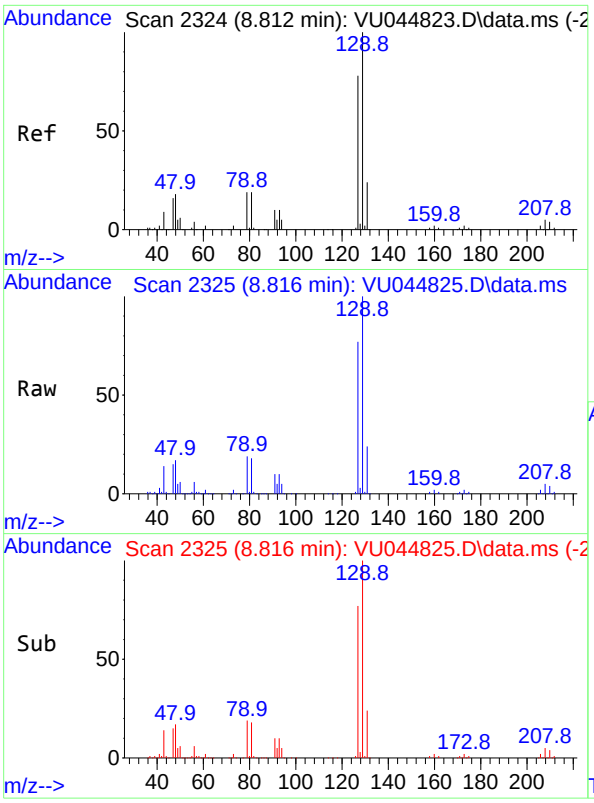
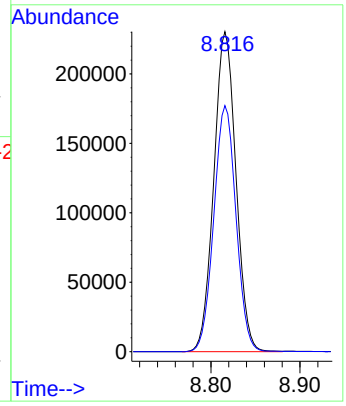
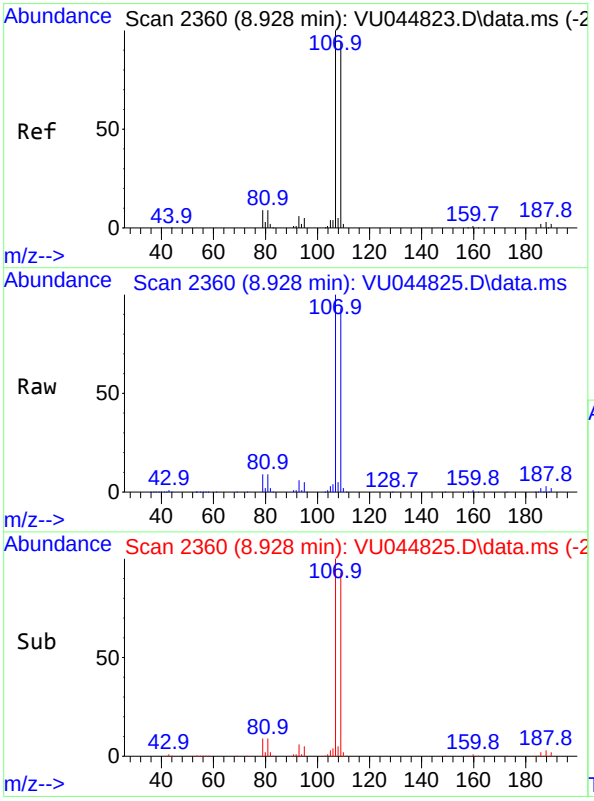


#60
Dibromochloromethane
Concen: 153.23 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:129 Resp: 398473

Ion	Ratio	Lower	Upper
129	100		
127	77.2	39.0	117.0

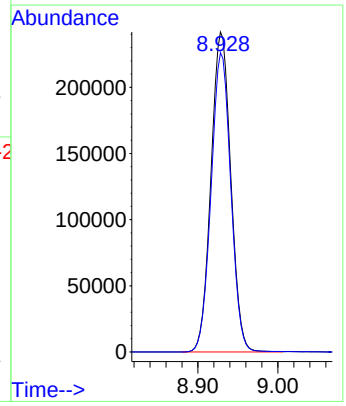




#61
1,2-Dibromoethane
Concen: 150.08 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:107 Resp: 415416

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.8	112.2



Instrument :
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ClientSampleId :
VSTDICC150

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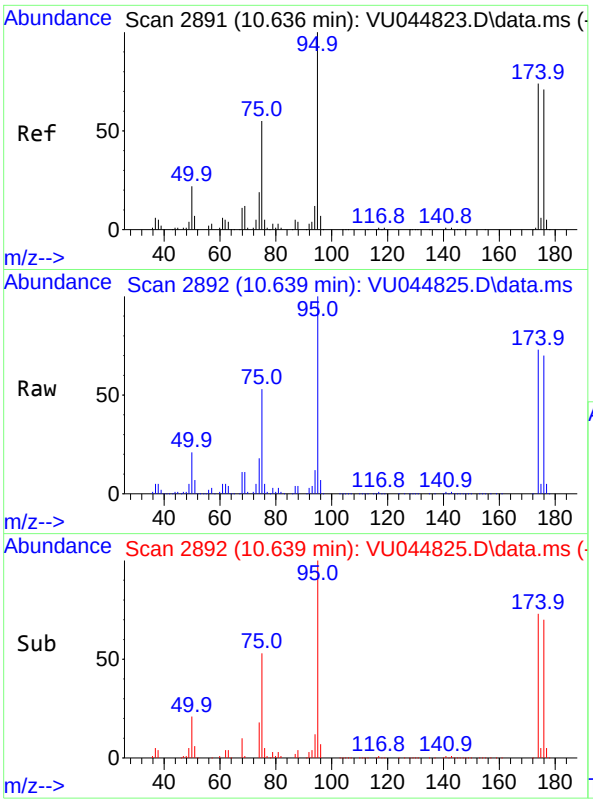
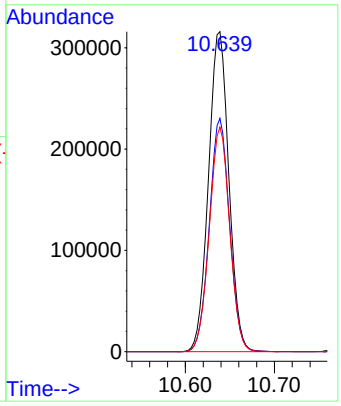
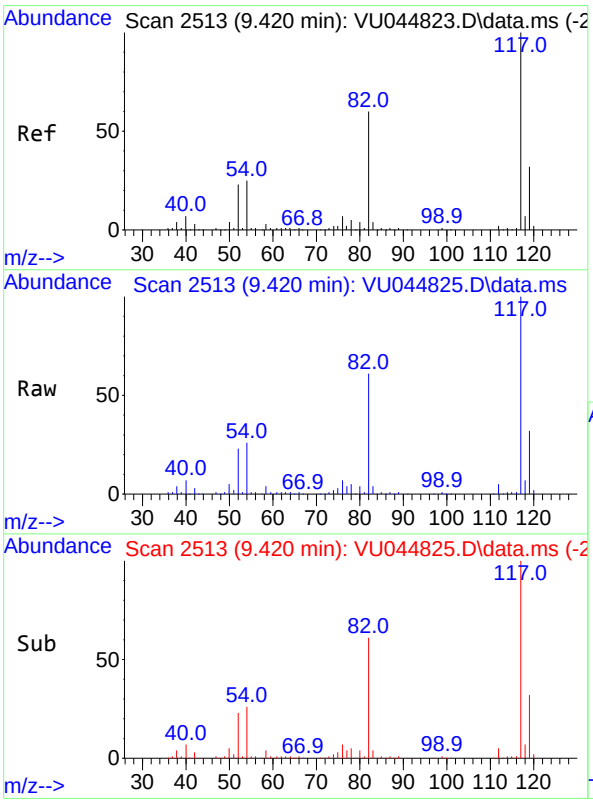


#62
4-Bromofluorobenzene
Concen: 149.93 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 95 Resp: 501030

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	146.6
176	70.1	0.0	141.2

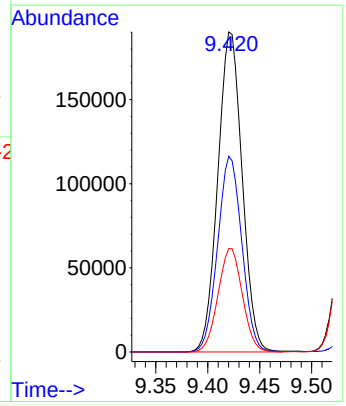




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:117 Resp: 310328

Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.8	71.8
119	32.3	25.8	38.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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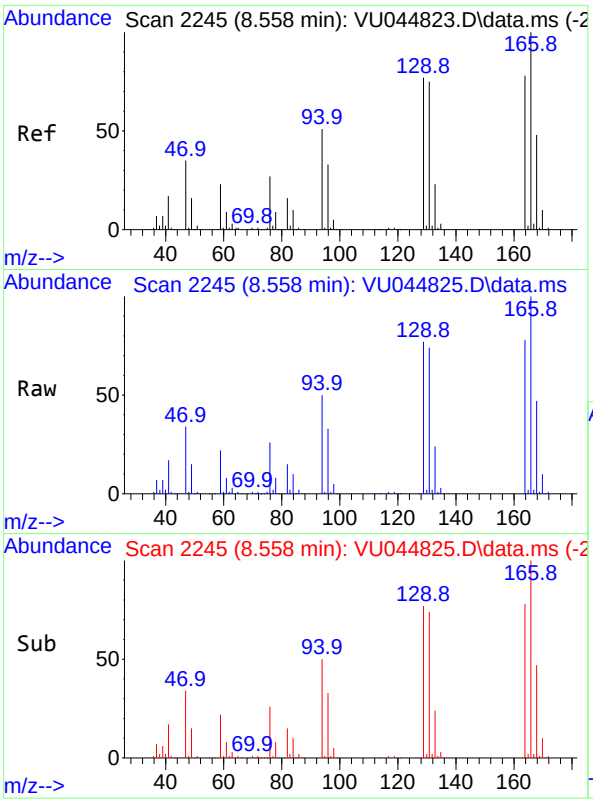
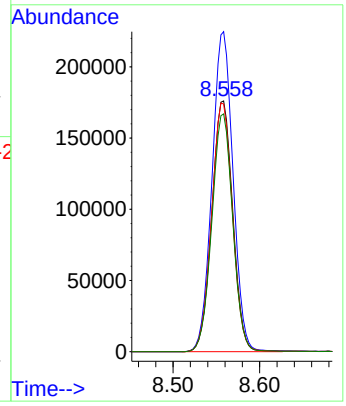
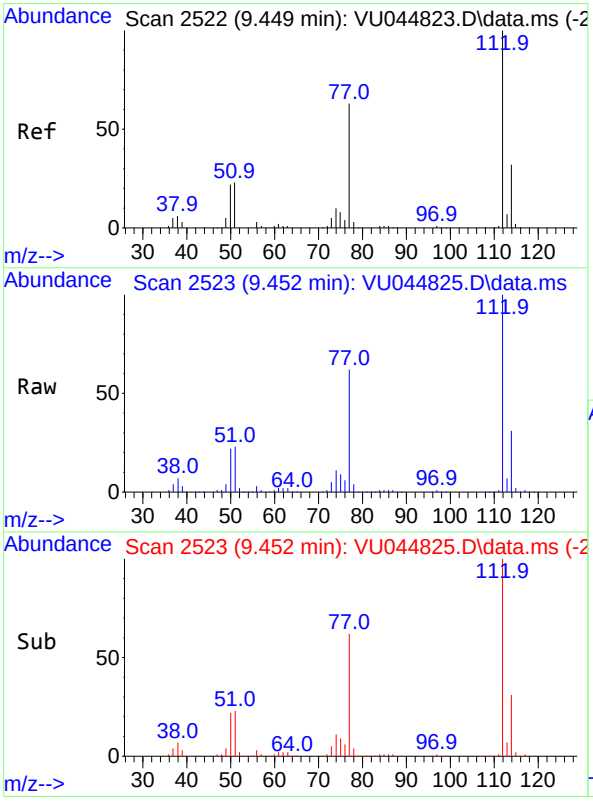


#64
Tetrachloroethene
Concen: 138.00 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:164 Resp: 296764

Ion	Ratio	Lower	Upper
164	100		
166	127.6	102.8	154.2
129	98.8	79.4	119.2
131	94.8	77.4	116.2

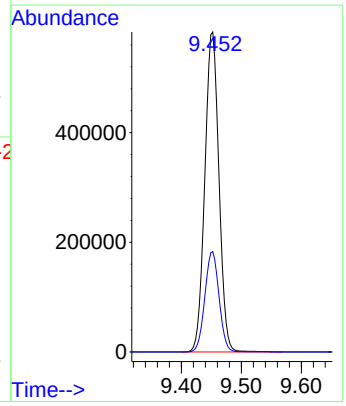




#65
Chlorobenzene
Concen: 143.79 ug/l
RT: 9.452 min Scan# 2523
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:112 Resp: 957051

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.9	38.9



Instrument :
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ClientSampleId :
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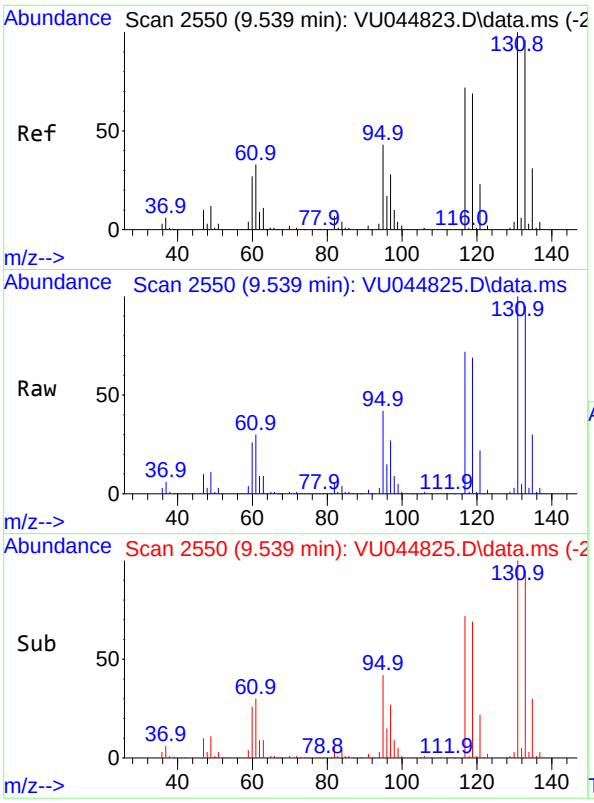
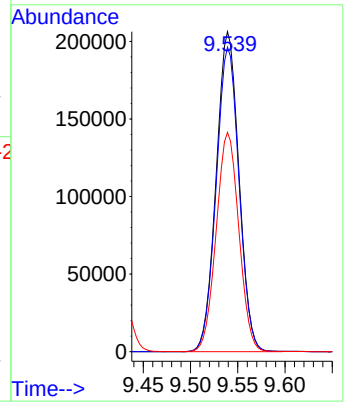
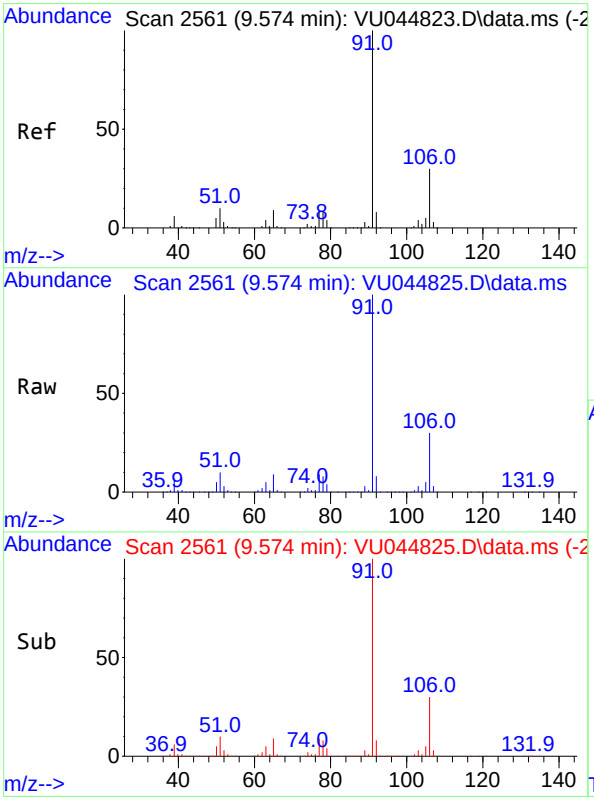


#66
1,1,1,2-Tetrachloroethane
Concen: 148.13 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:131 Resp: 344890

Ion	Ratio	Lower	Upper
131	100		
133	95.5	48.1	144.3
119	68.2	34.1	102.3

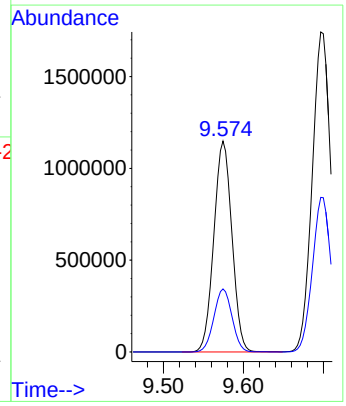




#67
Ethyl Benzene
Concen: 151.35 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 91 Resp: 1804752

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.3	36.5



Instrument :
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ClientSampleId :
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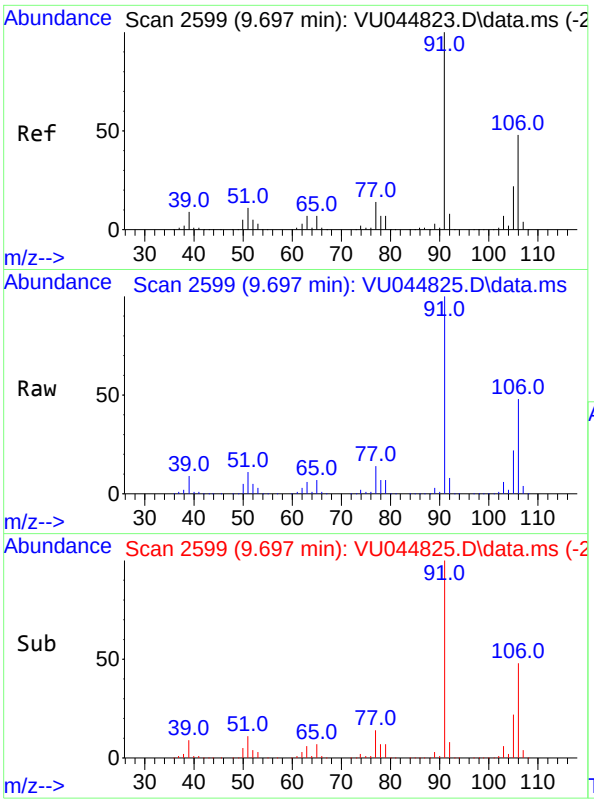
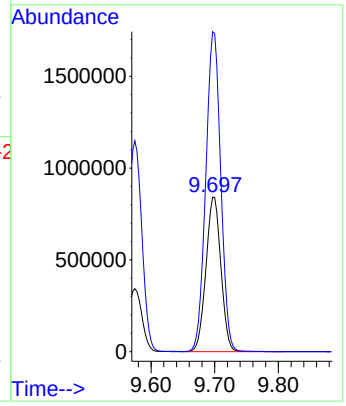
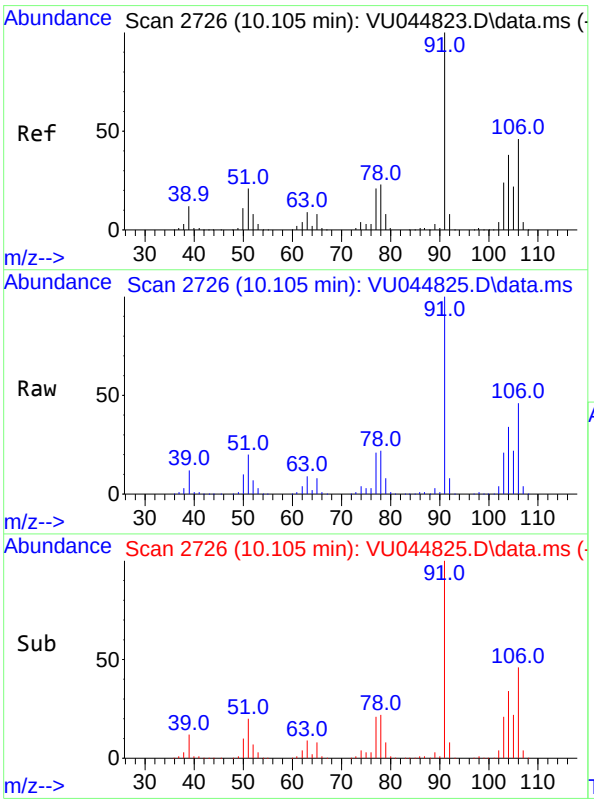


#68
m/p-Xylenes
Concen: 307.18 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:106 Resp: 1372282

Ion	Ratio	Lower	Upper
106	100		
91	207.7	164.2	246.2

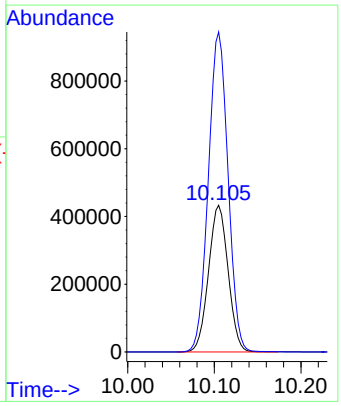




#69
o-Xylene
Concen: 160.15 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:106 Resp: 680634

Ion	Ratio	Lower	Upper
106	100		
91	218.7	108.9	326.7



Instrument :
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ClientSampleId :
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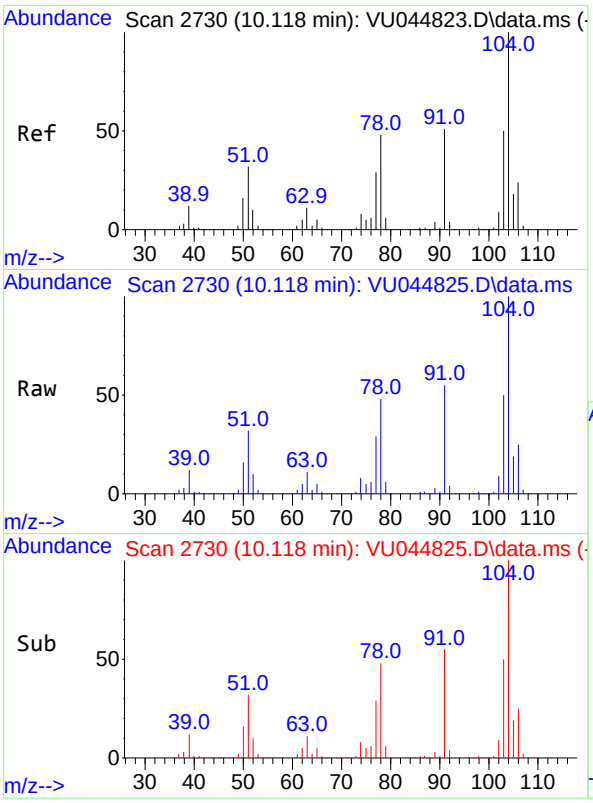
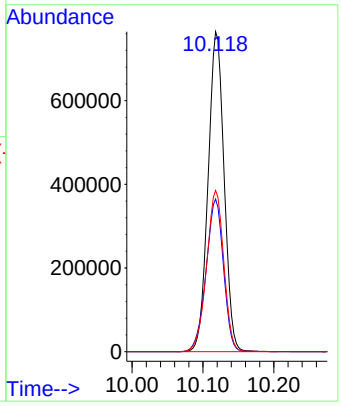
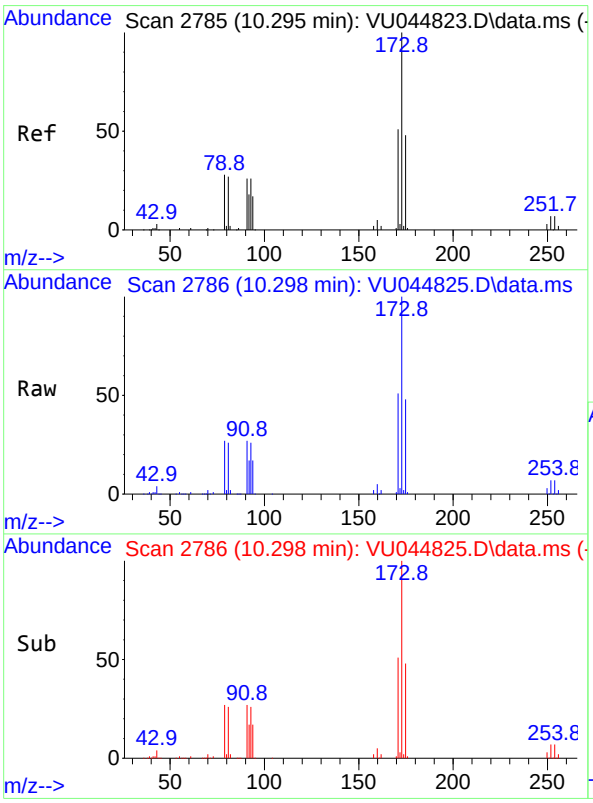


#70
Styrene
Concen: 163.07 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:104 Resp: 1199849

Ion	Ratio	Lower	Upper
104	100		
78	51.8	41.4	62.0
103	54.2	43.5	65.3

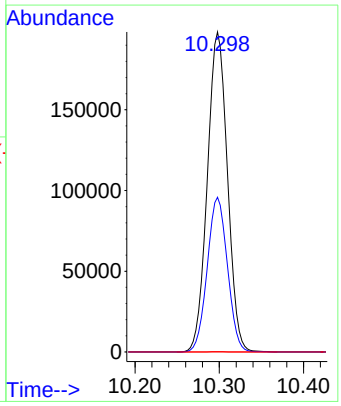




#71
Bromoform
Concen: 167.31 ug/l
RT: 10.298 min Scan# 2786
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:173 Resp: 328620

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	73.0
254	0.1	0.0	0.0#



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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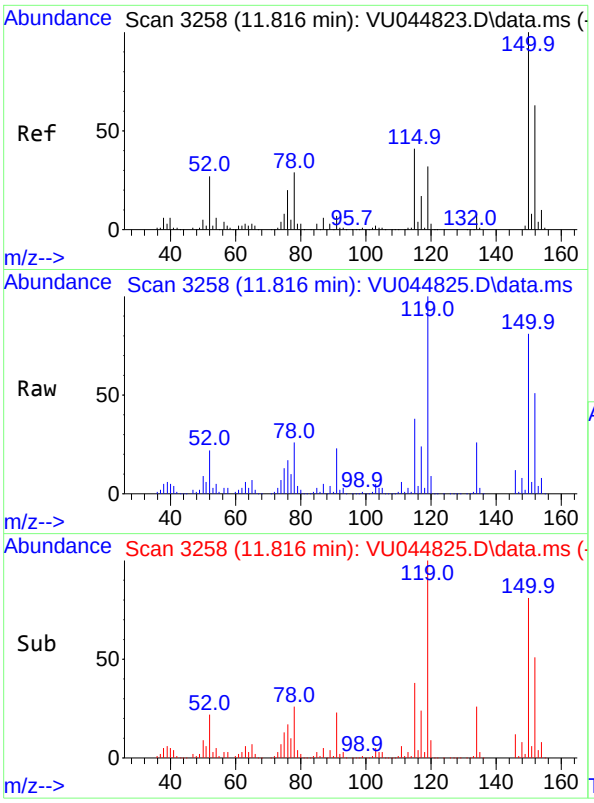
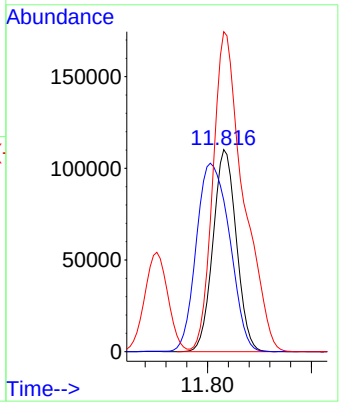
9/27/2021 11:02:48 AM

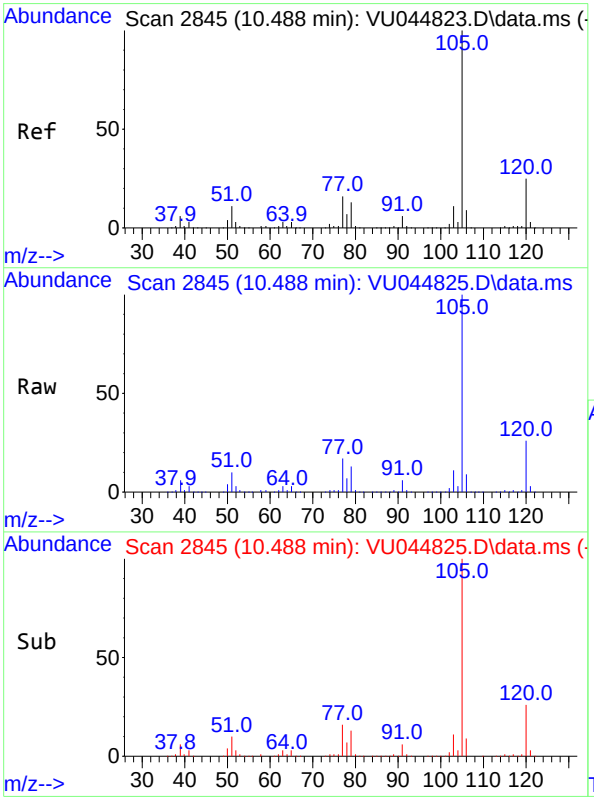


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:152 Resp: 172436

Ion	Ratio	Lower	Upper
152	100		
115	132.7	43.5	130.7#
150	206.2	0.0	350.0

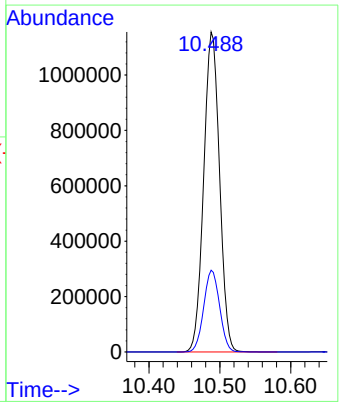




#73
Isopropylbenzene
Concen: 152.99 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:105 Resp: 1788432

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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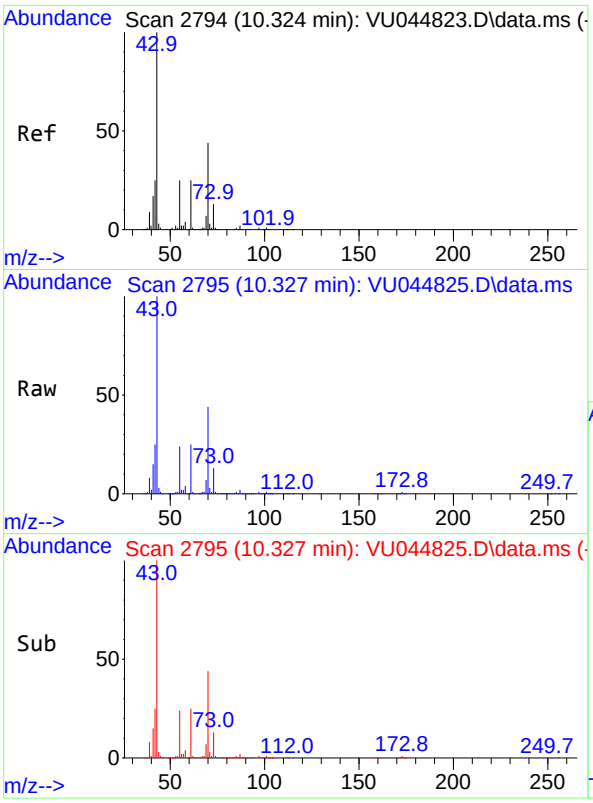
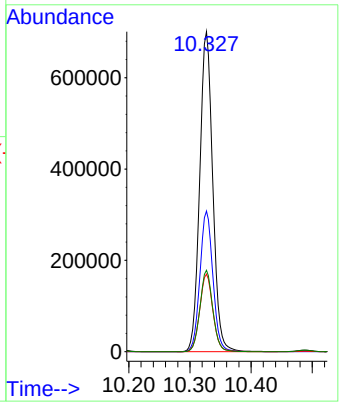
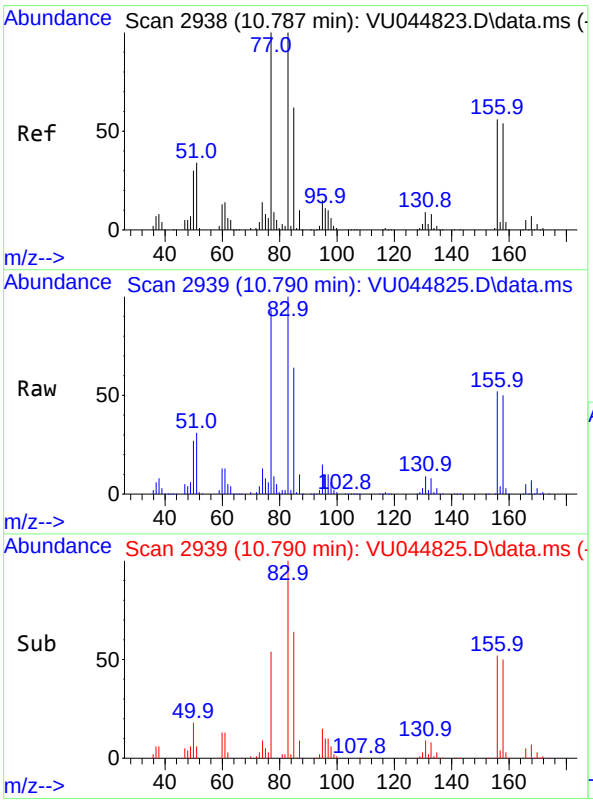


#74
N-amyl acetate
Concen: 192.02 ug/l
RT: 10.327 min Scan# 2795
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 43 Resp: 1037587

Ion	Ratio	Lower	Upper
43	100		
70	43.8	35.1	52.7
55	24.5	20.5	30.7
61	25.0	19.6	29.4

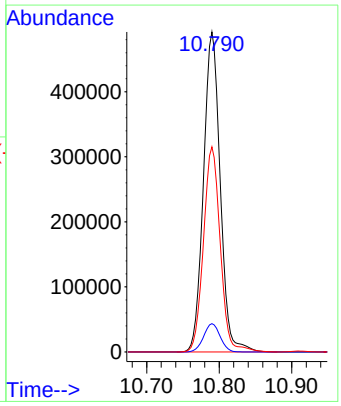




#75
1,1,2,2-Tetrachloroethane
Concen: 154.63 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 83 Resp: 790500

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.3	13.1
85	64.3	31.9	95.5



Instrument :
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ClientSampleId :
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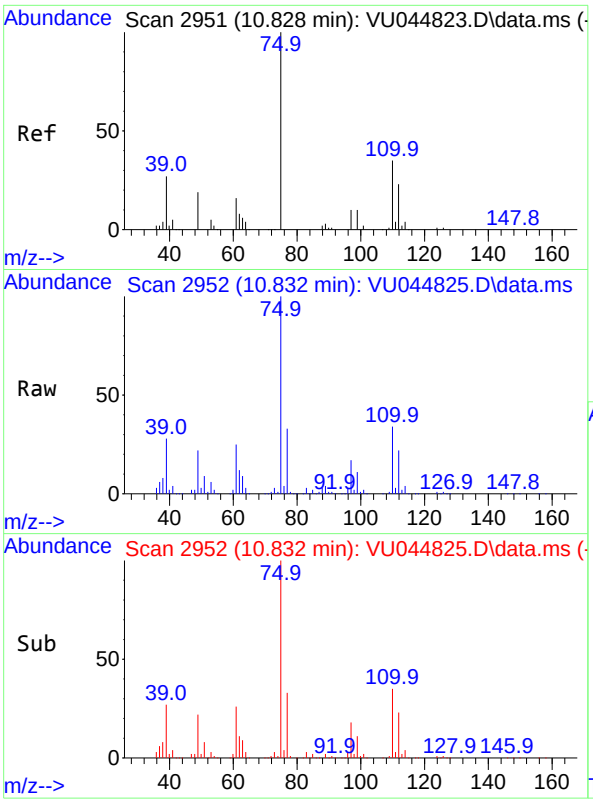
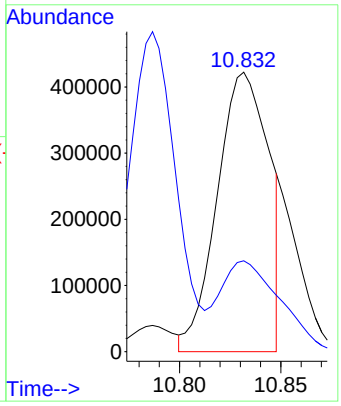
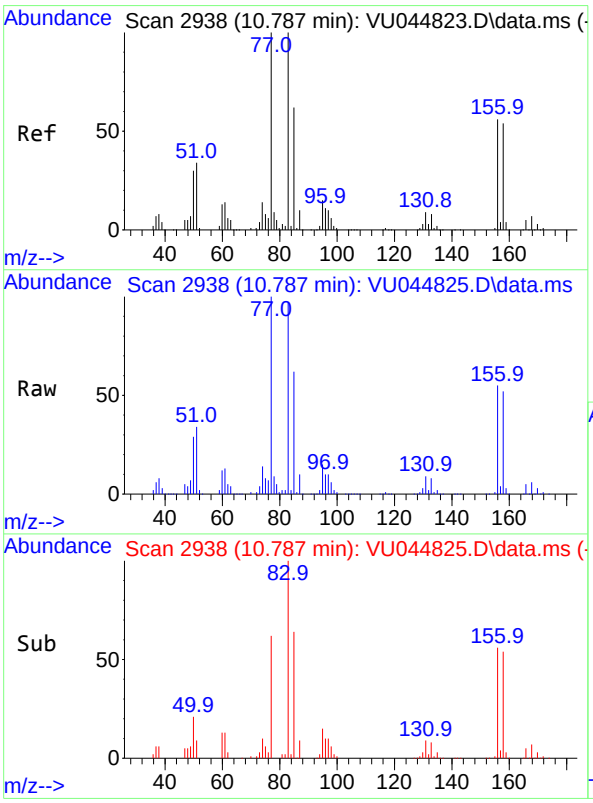


#76
1,2,3-Trichloropropane
Concen: 131.52 ug/l m
RT: 10.832 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 75 Resp: 745985

Ion	Ratio	Lower	Upper
75	100		
77	38.3	17.9	53.7

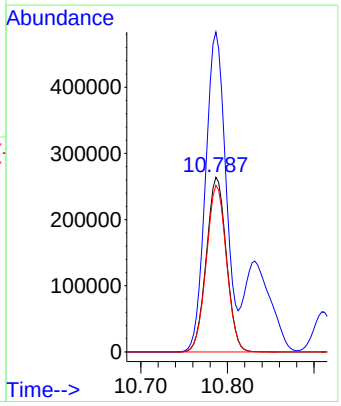




#77
Bromobenzene
Concen: 144.98 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:156 Resp: 425104

Ion	Ratio	Lower	Upper
156	100		
77	185.3	91.1	273.4
158	95.5	48.2	144.6



Instrument :
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ClientSampleId :
VSTDICC150

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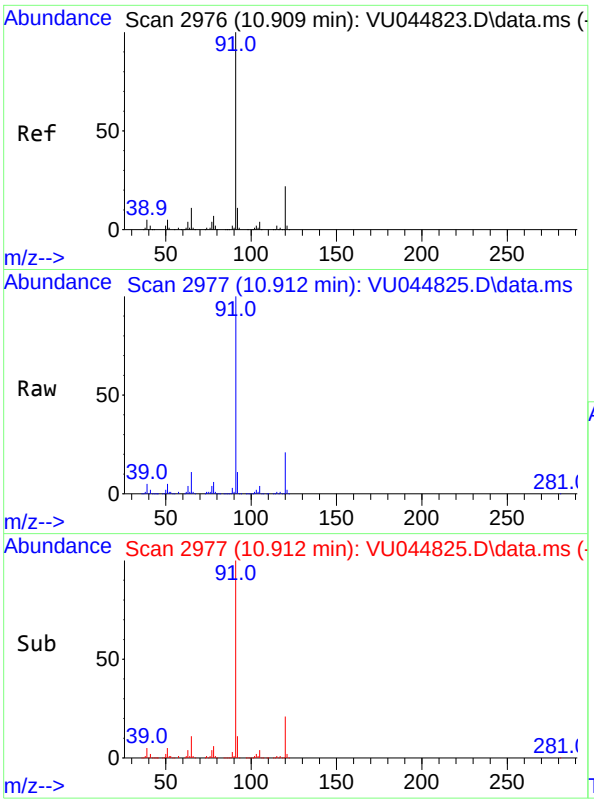
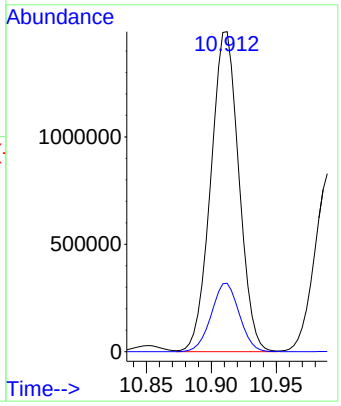
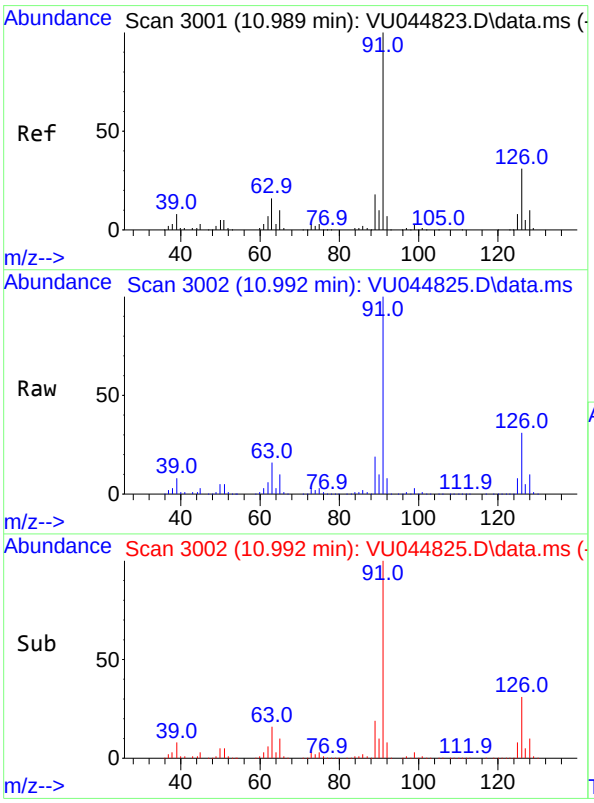


#78
n-propylbenzene
Concen: 147.98 ug/l
RT: 10.912 min Scan# 2977
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 91 Resp: 2238112

Ion	Ratio	Lower	Upper
91	100		
120	21.3	10.8	32.4

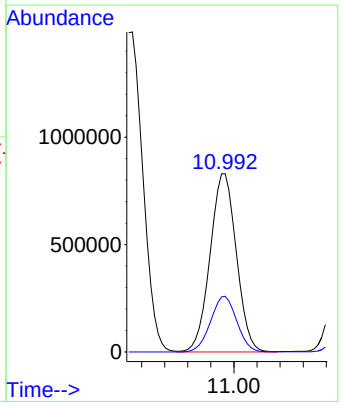




#79
2-Chlorotoluene
Concen: 146.21 ug/l
RT: 10.992 min Scan# 3002
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 91 Resp: 1312306

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.7	47.0



Instrument :
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ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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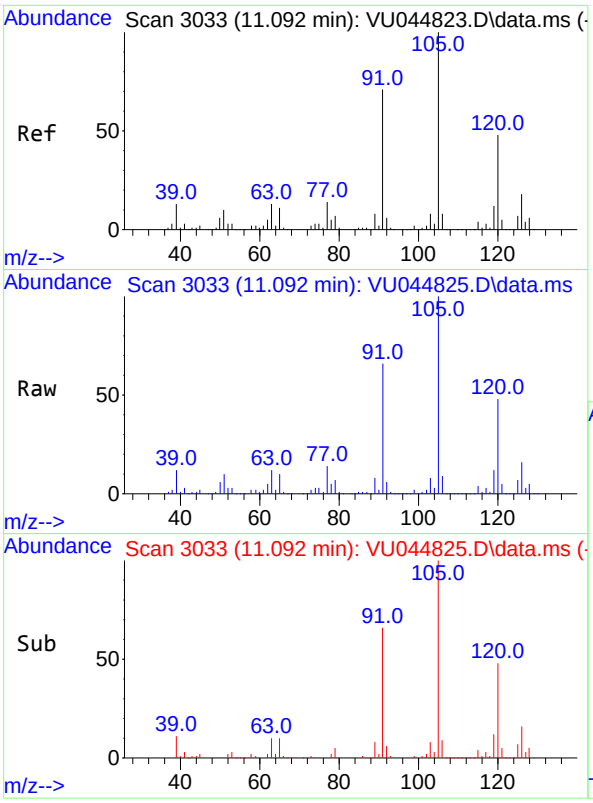
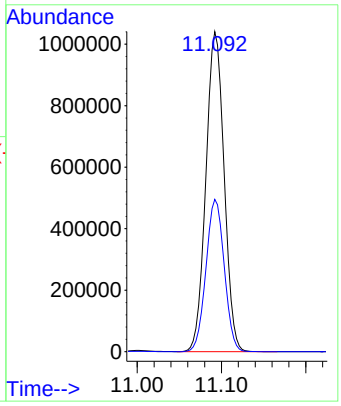
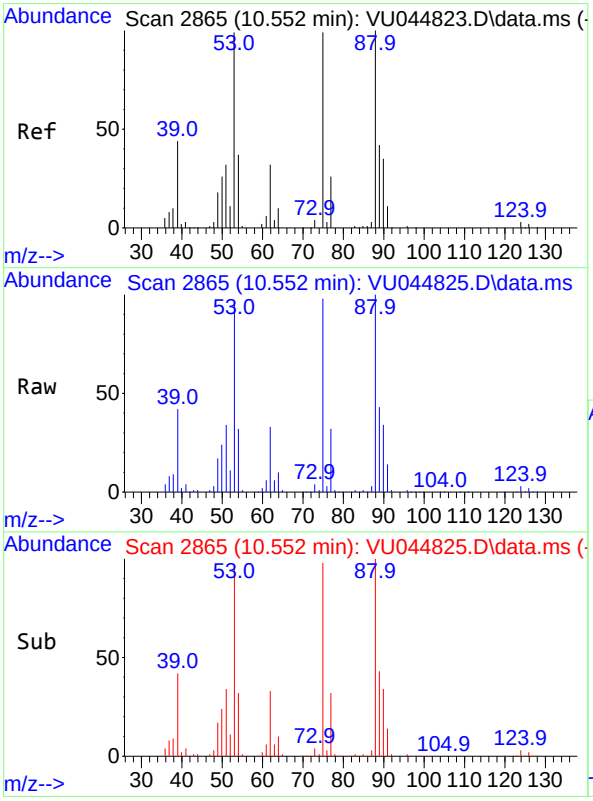


#80
1,3,5-Trimethylbenzene
Concen: 151.55 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:105 Resp: 1565569

Ion	Ratio	Lower	Upper
105	100		
120	47.7	24.1	72.2

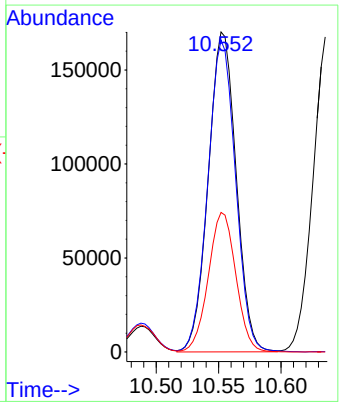




#81
trans-1,4-Dichloro-2-butene
Concen: 165.39 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 75 Resp: 264838

Ion	Ratio	Lower	Upper
75	100		
53	97.2	82.0	123.0
89	43.1	34.2	51.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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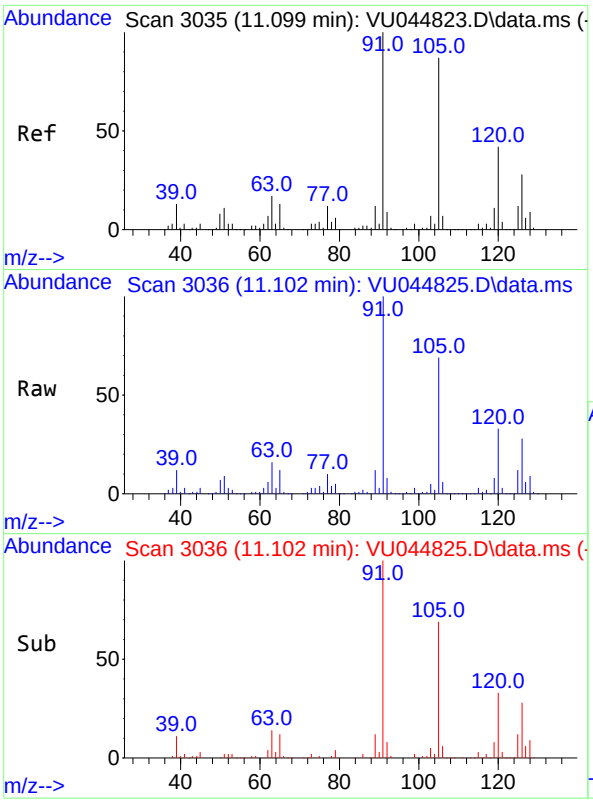
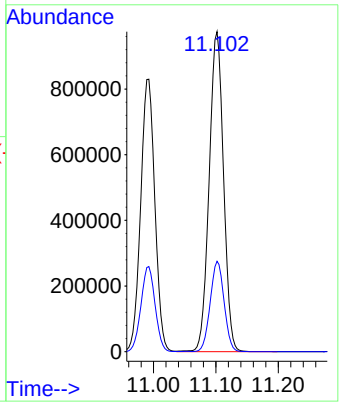
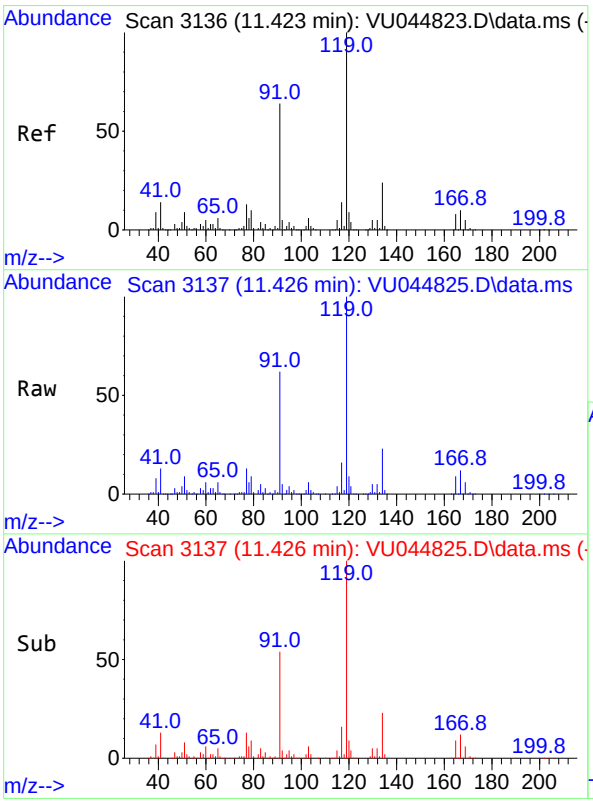


#82
4-Chlorotoluene
Concen: 147.68 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 91 Resp: 1556787

Ion	Ratio	Lower	Upper
91	100		
126	27.3	13.8	41.4

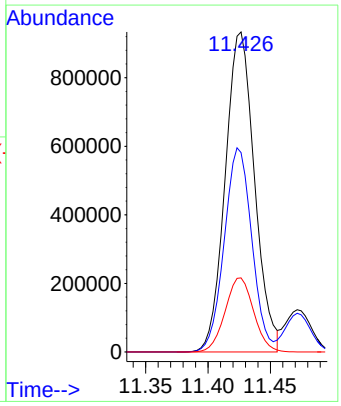




#83
tert-Butylbenzene
Concen: 157.39 ug/l
RT: 11.426 min Scan# 3137
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:119 Resp: 1530124

Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.4	91.2
134	22.5	11.5	34.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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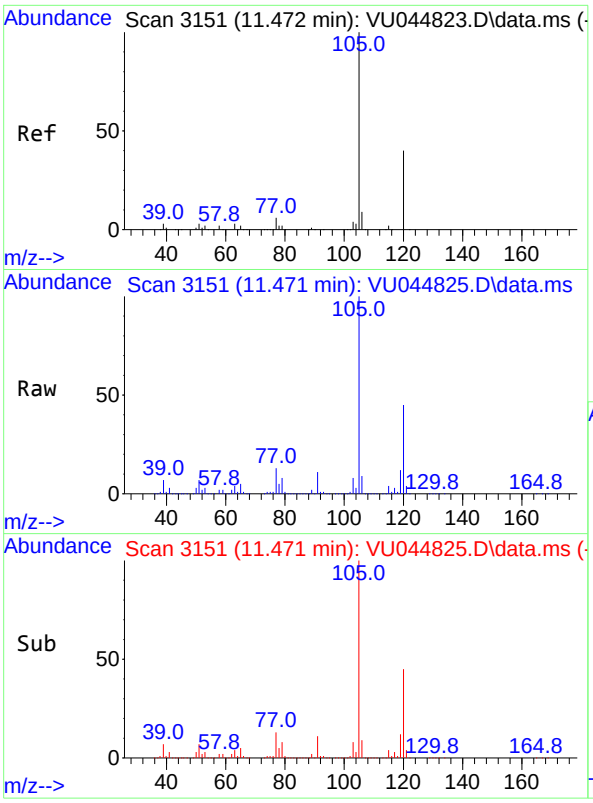
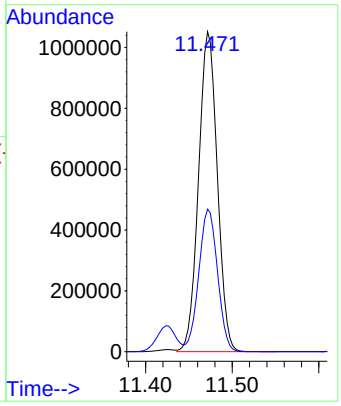
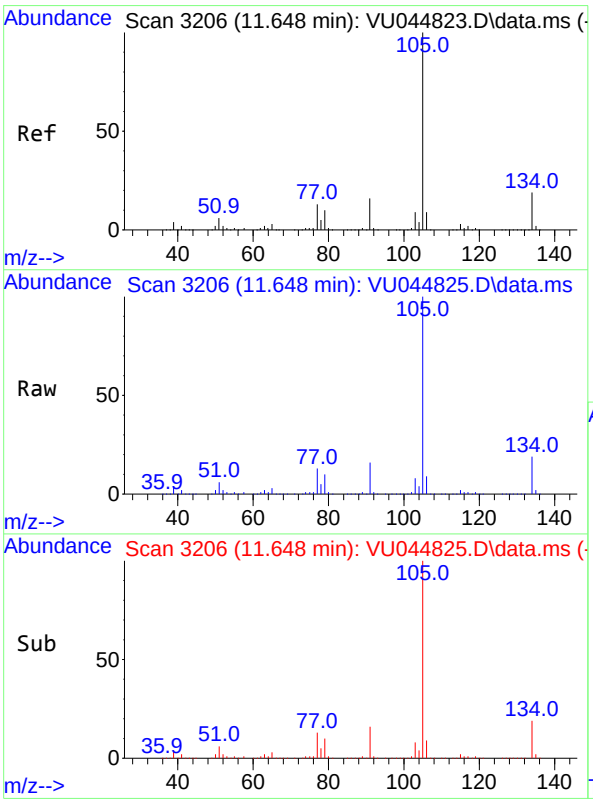


#84
1,2,4-Trimethylbenzene
Concen: 152.72 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:105 Resp: 1578748

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.4	67.3

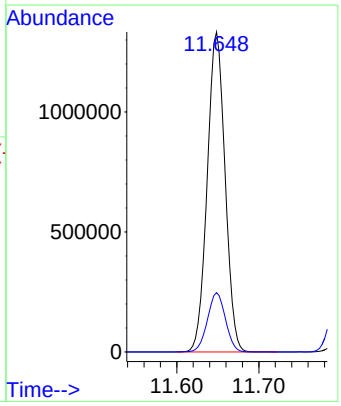




#85
sec-Butylbenzene
Concen: 157.34 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:105 Resp: 2016789

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.3	28.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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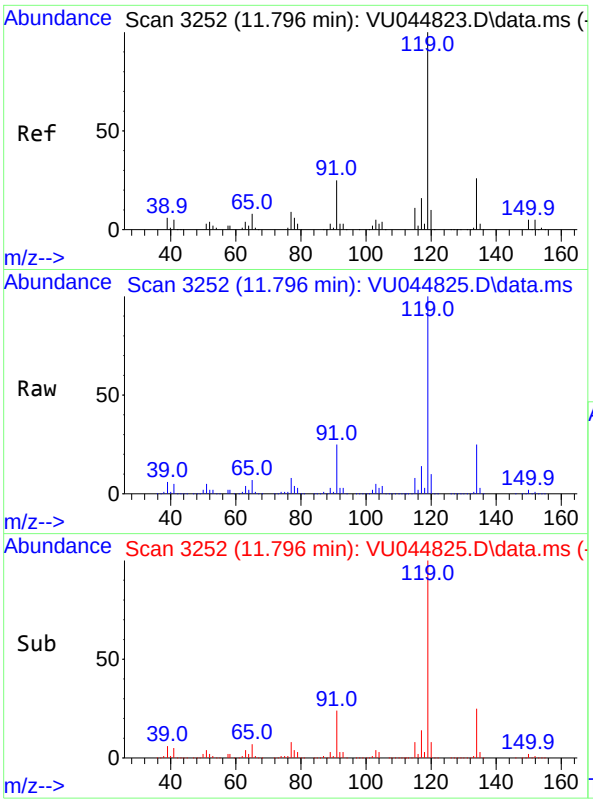
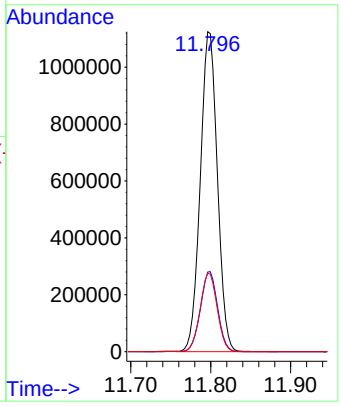
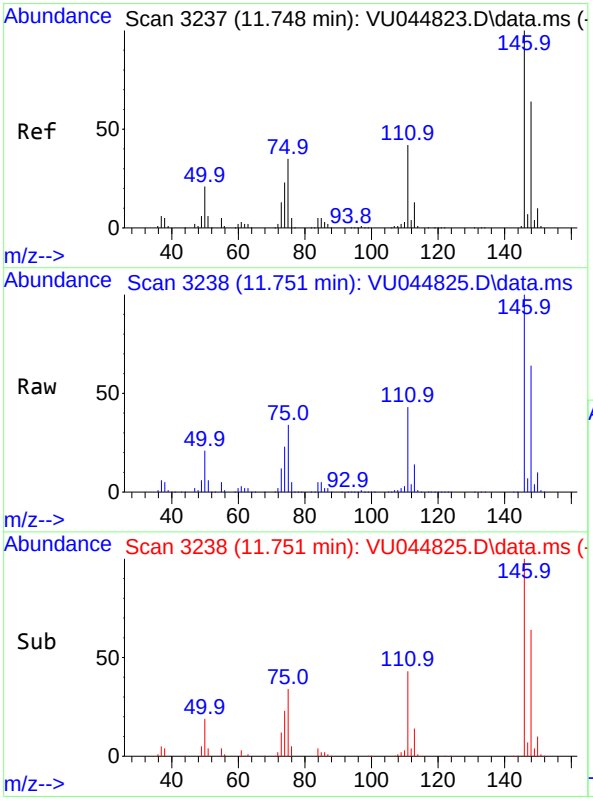


#86
p-Isopropyltoluene
Concen: 154.15 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:119 Resp: 1670721

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.3
91	24.5	12.2	36.6

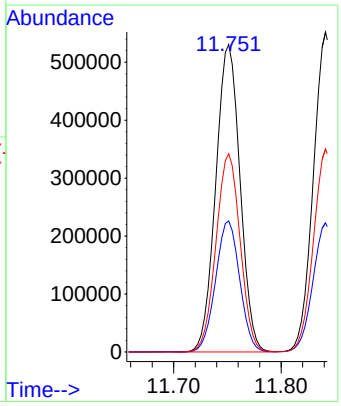




#87
1,3-Dichlorobenzene
Concen: 145.68 ug/l
RT: 11.751 min Scan# 3238
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:146 Resp: 833381

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.2	63.6
148	64.2	32.1	96.3



Instrument :
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ClientSampleId :
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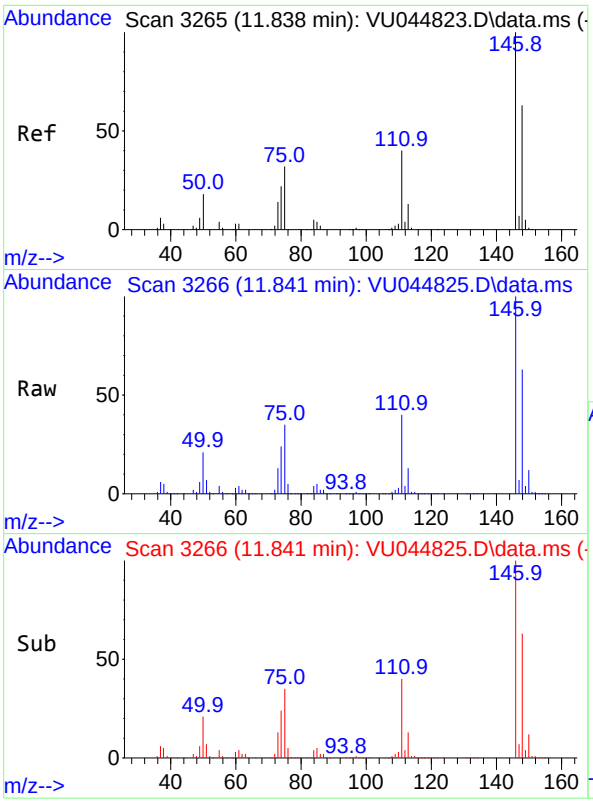
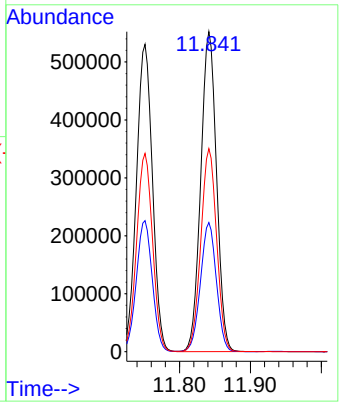
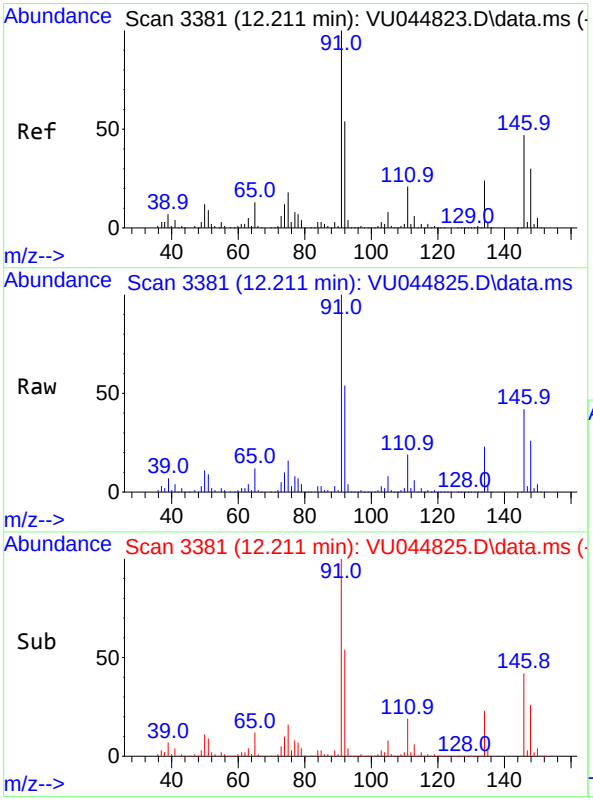


#88
1,4-Dichlorobenzene
Concen: 140.07 ug/l
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:146 Resp: 852131

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	63.7	31.8	95.3

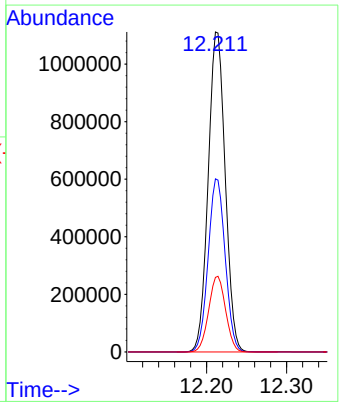




#89
n-Butylbenzene
Concen: 150.47 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 91 Resp: 1643739

Ion	Ratio	Lower	Upper
91	100		
92	54.1	26.8	80.4
134	23.6	11.8	35.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

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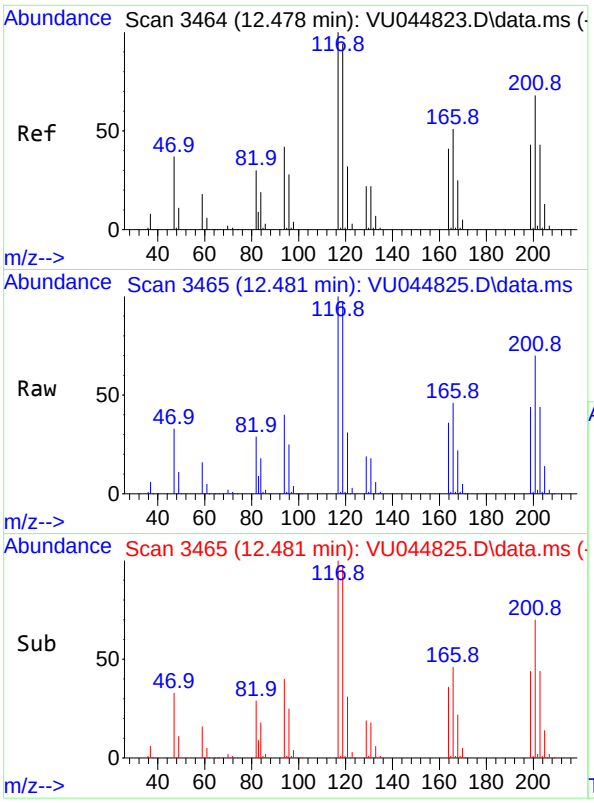
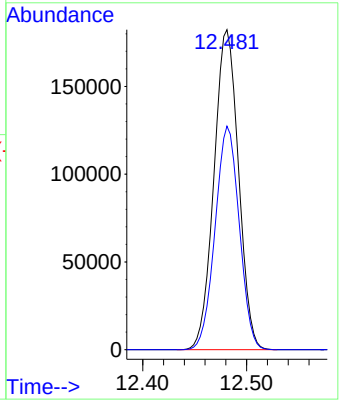
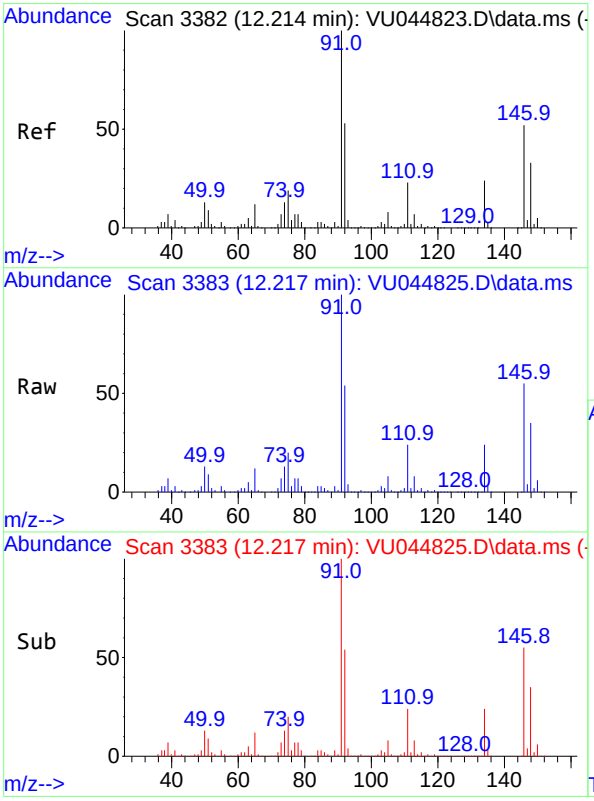


#90
Hexachloroethane
Concen: 170.81 ug/l
RT: 12.481 min Scan# 3465
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:117 Resp: 298966

Ion	Ratio	Lower	Upper
117	100		
201	68.8	34.8	104.3

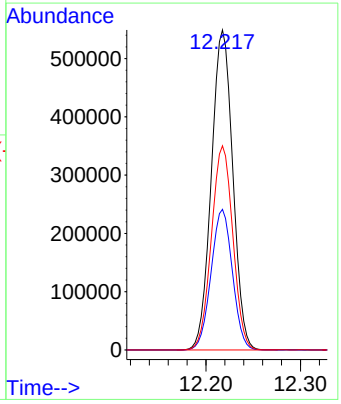




#91
1,2-Dichlorobenzene
Concen: 149.13 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:146 Resp: 864414

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.3
148	63.9	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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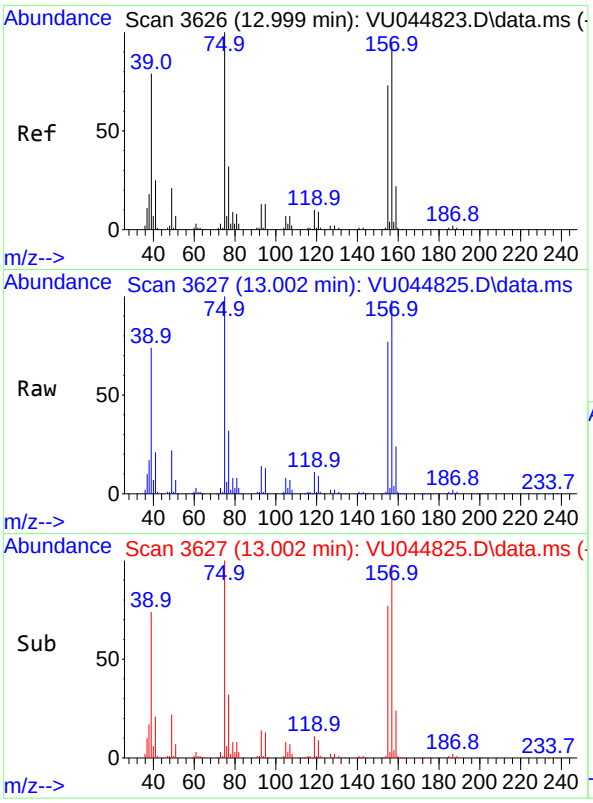
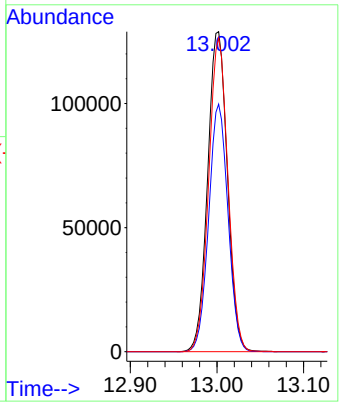
9/27/2021 11:02:48 AM

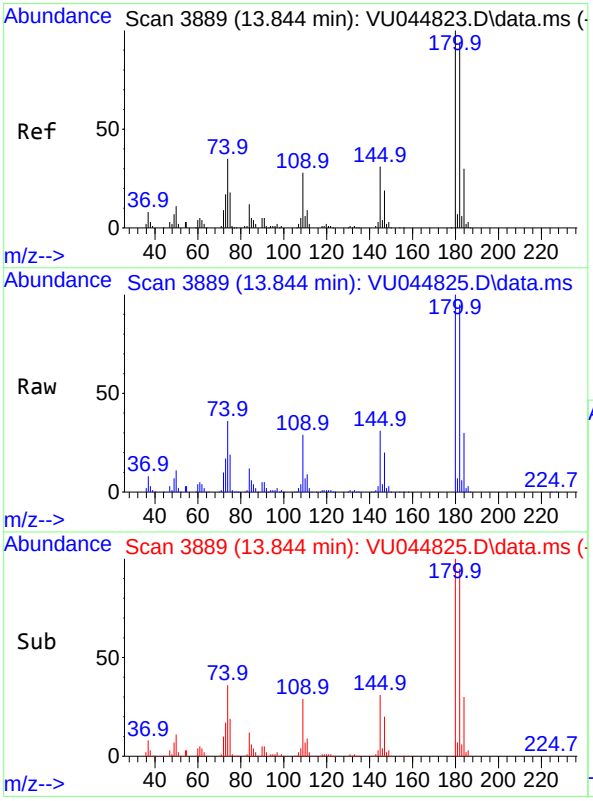


#92
1,2-Dibromo-3-Chloropropane
Concen: 172.35 ug/l
RT: 13.002 min Scan# 3627
Delta R.T. 0.003 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion: 75 Resp: 204339

Ion	Ratio	Lower	Upper
75	100		
155	75.5	36.9	110.6
157	95.6	47.8	143.3

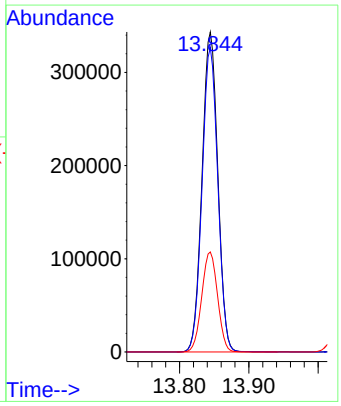




#93
1,2,4-Trichlorobenzene
Concen: 149.63 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

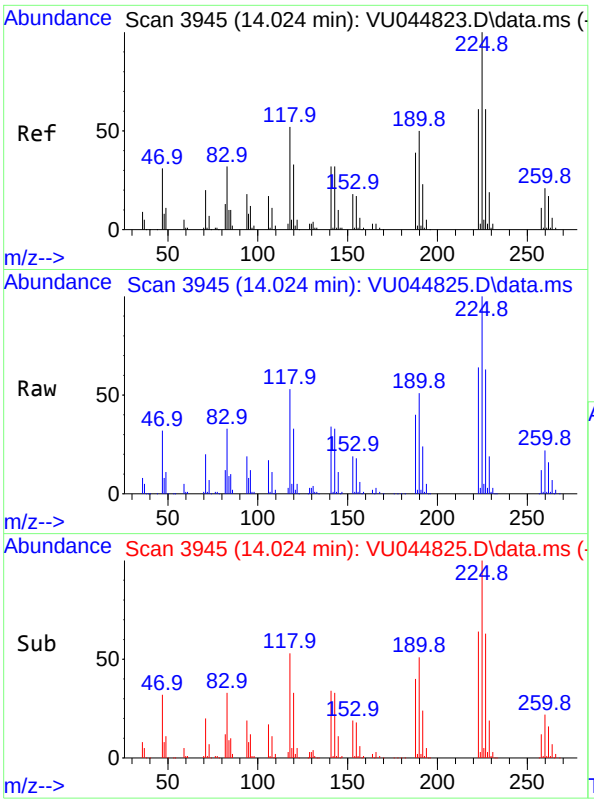
Tgt Ion:180 Resp: 540812

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.4	142.3
145	31.4	15.4	46.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

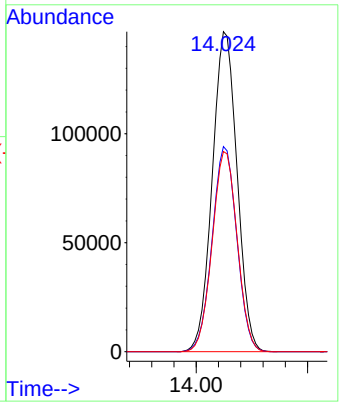
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:48 AM

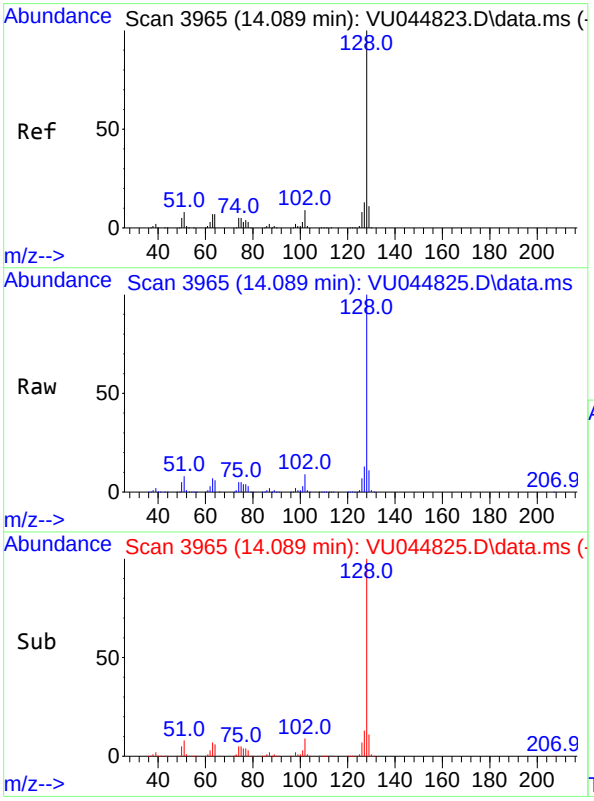


#94
Hexachlorobutadiene
Concen: 121.21 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:225 Resp: 226963

Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.1	93.3
227	63.1	31.4	94.3

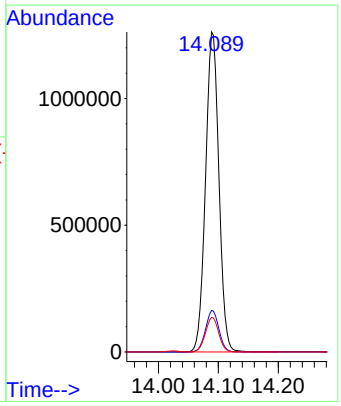


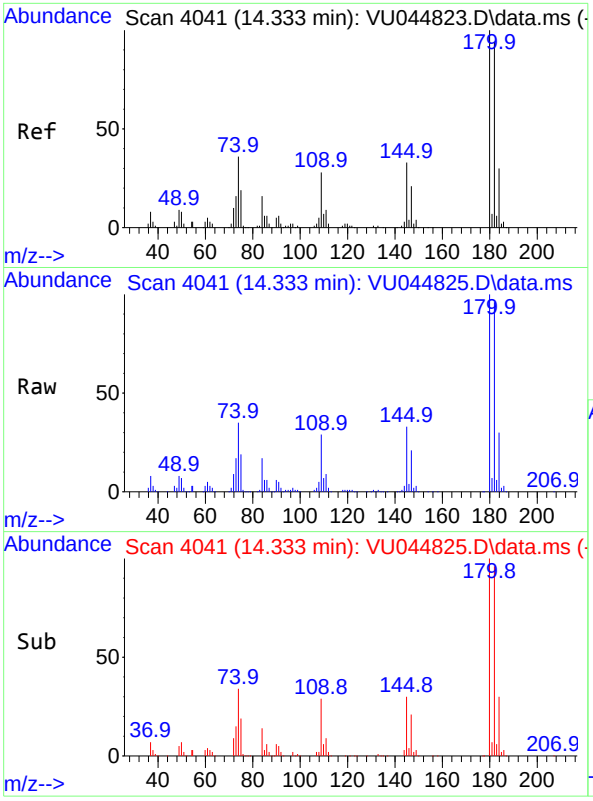


#95
Naphthalene
Concen: 167.01 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:128 Resp: 1959465

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.7	8.6	13.0

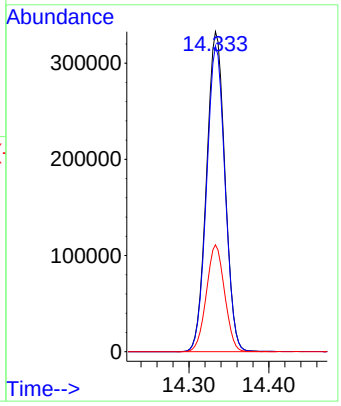




#96
1,2,3-Trichlorobenzene
Concen: 150.19 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044825.D
Acq: 24 Sep 2021 21:39

Tgt Ion:180 Resp: 532619

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.1	141.4
145	33.1	16.4	49.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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9/27/2021 11:02:48 AM

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : ICVVU092521

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:52 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	160171	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	290881	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	278016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	140852	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	140945	50.420	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.840%			
35) Dibromofluoromethane	5.295	113	100132	50.179	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.360%			
50) Toluene-d8	7.902	98	383937	50.944	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.880%			
62) 4-Bromofluorobenzene	10.635	95	142996	51.084	ug/l	0.00
Spiked Amount 50.000			Recovery = 102.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	99154	51.689	ug/l	99
3) Chloromethane	1.520	50	138898	47.712	ug/l	98
4) Vinyl Chloride	1.607	62	138235	50.877	ug/l	100
5) Bromomethane	1.841	94	72064	55.023	ug/l	98
6) Chloroethane	1.925	64	88813	48.701	ug/l	98
7) Trichlorofluoromethane	2.134	101	166687	49.955	ug/l	99
8) Diethyl Ether	2.378	74	78099	51.129	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.581	101	96796	49.674	ug/l	99
10) Methyl Iodide	2.726	142	98346	46.445	ug/l	99
11) Tert butyl alcohol	3.192	59	197933	242.592	ug/l #	87
12) 1,1-Dichloroethene	2.581	96	97364	50.487	ug/l	99
13) Acrolein	2.488	56	58363	264.876	ug/l	96
14) Allyl chloride	2.925	41	190961	51.015	ug/l	100
15) Acrylonitrile	3.317	53	431742	253.320	ug/l	100
16) Acetone	2.629	43	373038	236.578	ug/l	100
17) Carbon Disulfide	2.793	76	272402	50.210	ug/l	100
18) Methyl Acetate	2.951	43	259509	49.262	ug/l	99
19) Methyl tert-butyl Ether	3.369	73	378679	52.584	ug/l	100
20) Methylene Chloride	3.050	84	118664	46.490	ug/l	98
21) trans-1,2-Dichloroethene	3.356	96	105415	51.052	ug/l	98
22) Diisopropyl ether	3.999	45	390407	52.787	ug/l	97
23) Vinyl Acetate	3.960	43	1618844	266.913	ug/l	99
24) 1,1-Dichloroethane	3.874	63	219167	51.054	ug/l	99
25) 2-Butanone	4.706	43	600373	250.939	ug/l	100
26) 2,2-Dichloropropane	4.671	77	154894	48.114	ug/l	98
27) cis-1,2-Dichloroethene	4.671	96	124893	49.732	ug/l	100
28) Bromochloromethane	4.980	49	98402	48.237	ug/l	99
29) Tetrahydrofuran	5.054	42	382228	253.943	ug/l	99
30) Chloroform	5.092	83	214048	49.590	ug/l	98
31) Cyclohexane	5.391	56	197015	49.090	ug/l	100
32) 1,1,1-Trichloroethane	5.320	97	177047	50.765	ug/l	99
36) 1,1-Dichloropropene	5.529	75	155364	50.340	ug/l	99
37) Ethyl Acetate	4.806	43	221096	48.823	ug/l	99
38) Carbon Tetrachloride	5.529	117	139241	50.465	ug/l	99
39) Methylcyclohexane	6.767	83	182274	52.218	ug/l	99
40) Benzene	5.777	78	468272	49.765	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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9/27/2021 11:02:52 AM

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.976	41	117185	51.842	ug/l		99
42) 1,2-Dichloroethane	5.800	62	181764	49.101	ug/l		100
43) Isopropyl Acetate	5.915	43	323600	51.076	ug/l		100
44) Trichloroethene	6.545	130	109077	48.233	ug/l		100
45) 1,2-Dichloropropane	6.796	63	127501	50.067	ug/l		98
46) Dibromomethane	6.922	93	83520	49.495	ug/l		99
47) Bromodichloromethane	7.108	83	165951	49.857	ug/l		98
48) Methyl methacrylate	6.963	41	154473	51.657	ug/l		98
49) 1,4-Dioxane	6.976	88	81498	1066.363	ug/l		97
51) 4-Methyl-2-Pentanone	7.796	43	1145337	253.653	ug/l		99
52) Toluene	7.973	92	287006	51.017	ug/l		100
53) t-1,3-Dichloropropene	8.214	75	181864	52.444	ug/l		98
54) cis-1,3-Dichloropropene	7.610	75	196109	52.219	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	119980	49.883	ug/l		98
56) Ethyl methacrylate	8.336	69	204469	47.810	ug/l		99
57) 1,3-Dichloropropane	8.578	76	213918	49.947	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.468	63	216897	214.122	ug/l		99
59) 2-Hexanone	8.690	43	925649	255.392	ug/l		99
60) Dibromochloromethane	8.812	129	118530	51.462	ug/l		99
61) 1,2-Dibromoethane	8.928	107	127096	50.325	ug/l		100
64) Tetrachloroethene	8.555	164	95959	50.921	ug/l		100
65) Chlorobenzene	9.449	112	291956	50.586	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	103997	50.519	ug/l		99
67) Ethyl Benzene	9.574	91	547944	53.191	ug/l		99
68) m/p-Xylenes	9.697	106	420323	106.681	ug/l		98
69) o-Xylene	10.105	106	206039	54.081	ug/l		99
70) Styrene	10.118	104	350610	49.253	ug/l		99
71) Bromoform	10.295	173	87679	51.476	ug/l	#	100
73) Isopropylbenzene	10.487	105	540469	54.063	ug/l		100
74) N-amyl acetate	10.323	43	279453	54.844	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.786	83	224114	49.208	ug/l		100
76) 1,2,3-Trichloropropane	10.828	75	209675m	49.159	ug/l		
77) Bromobenzene	10.783	156	123759	51.817	ug/l		100
78) n-propylbenzene	10.909	91	661327	54.594	ug/l		99
79) 2-Chlorotoluene	10.989	91	388304	52.597	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	460464	54.377	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.549	75	68122	51.739	ug/l		99
82) 4-Chlorotoluene	11.098	91	453596	53.967	ug/l		100
83) tert-Butylbenzene	11.423	119	444707	54.439	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	464317	55.618	ug/l		99
85) sec-Butylbenzene	11.648	105	586570	55.529	ug/l		99
86) p-Isopropyltoluene	11.796	119	481622	56.045	ug/l		100
87) 1,3-Dichlorobenzene	11.748	146	239273	51.624	ug/l		99
88) 1,4-Dichlorobenzene	11.838	146	243018	50.701	ug/l		100
89) n-Butylbenzene	12.211	91	438839	49.587	ug/l		99
90) Hexachloroethane	12.478	117	77965	50.349	ug/l		99
91) 1,2-Dichlorobenzene	12.217	146	247858	50.462	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.999	75	58605	53.067	ug/l		100
93) 1,2,4-Trichlorobenzene	13.844	180	151325	55.755	ug/l		100
94) Hexachlorobutadiene	14.024	225	62535	51.793	ug/l		98
95) Naphthalene	14.089	128	561437	51.931	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	155805	56.454	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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9/27/2021 11:02:52 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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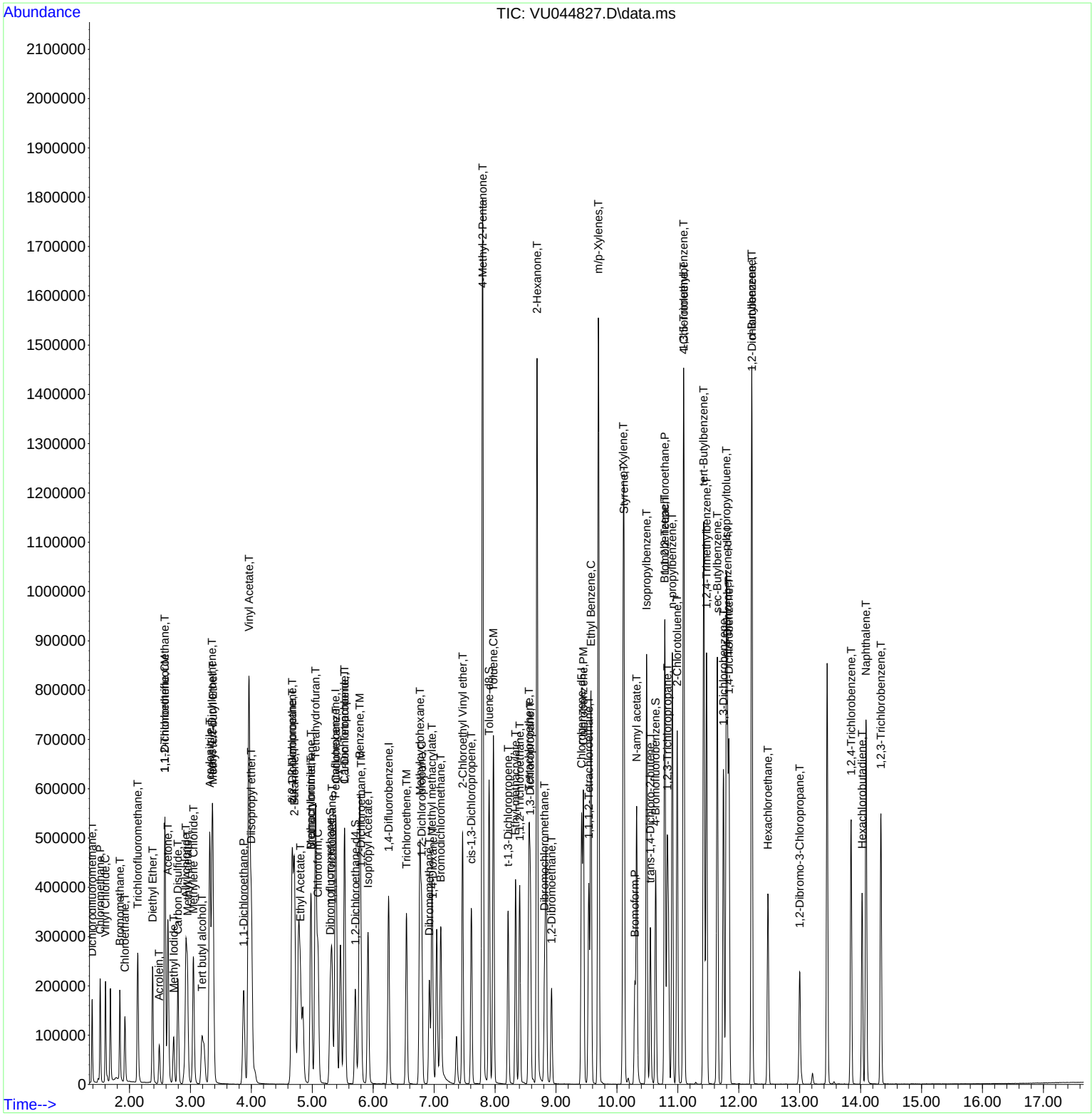
9/27/2021 11:02:52 AM



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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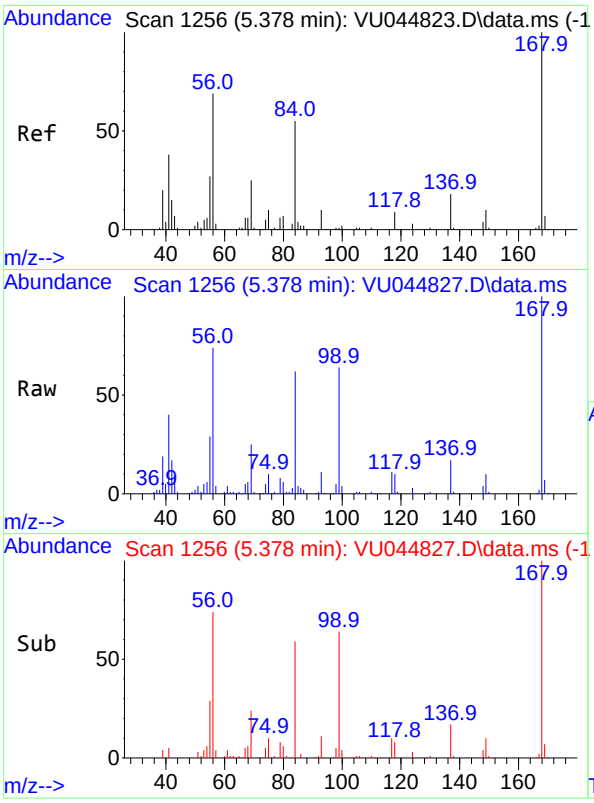
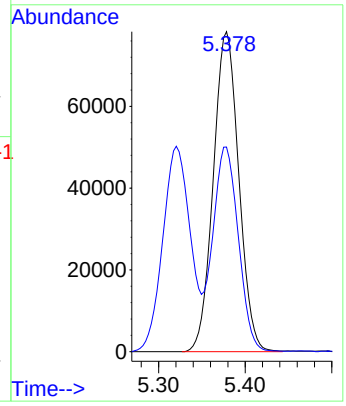
9/27/2021 11:02:52 AM

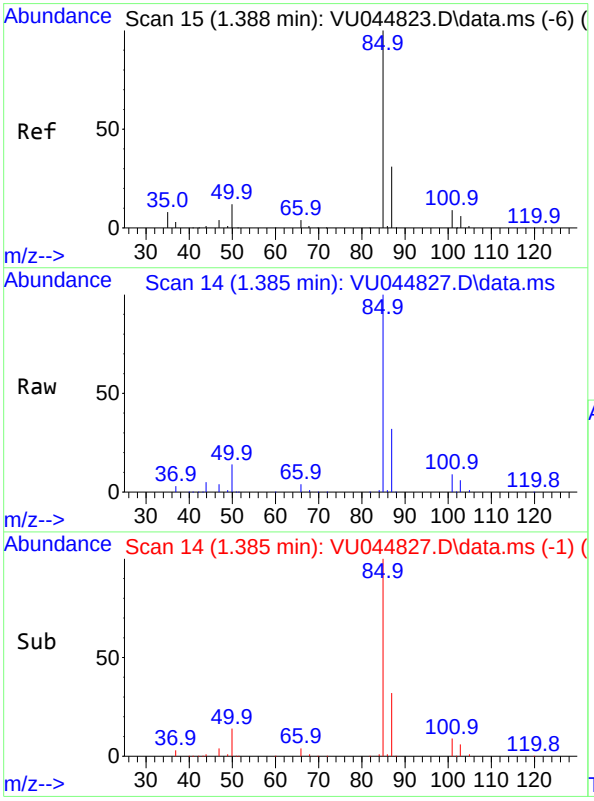


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:168 Resp: 160171

Ion	Ratio	Lower	Upper
168	100		
99	63.8	51.4	77.0

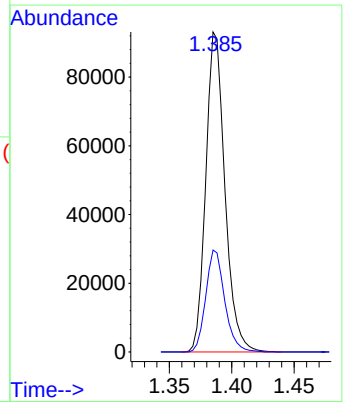




#2
Dichlorodifluoromethane
Concen: 51.689 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

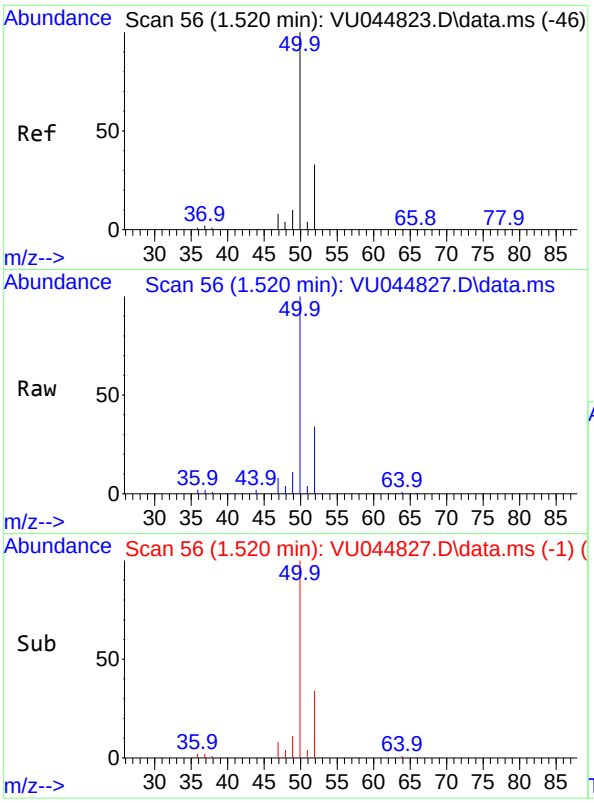
Tgt Ion: 85 Resp: 99154

Ion	Ratio	Lower	Upper
85	100		
87	31.9	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

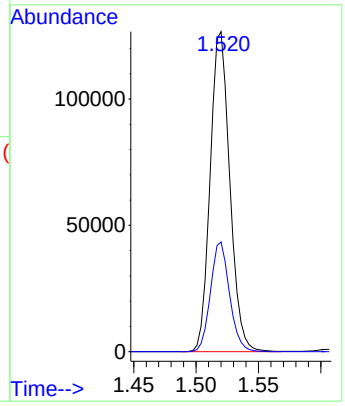
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:52 AM

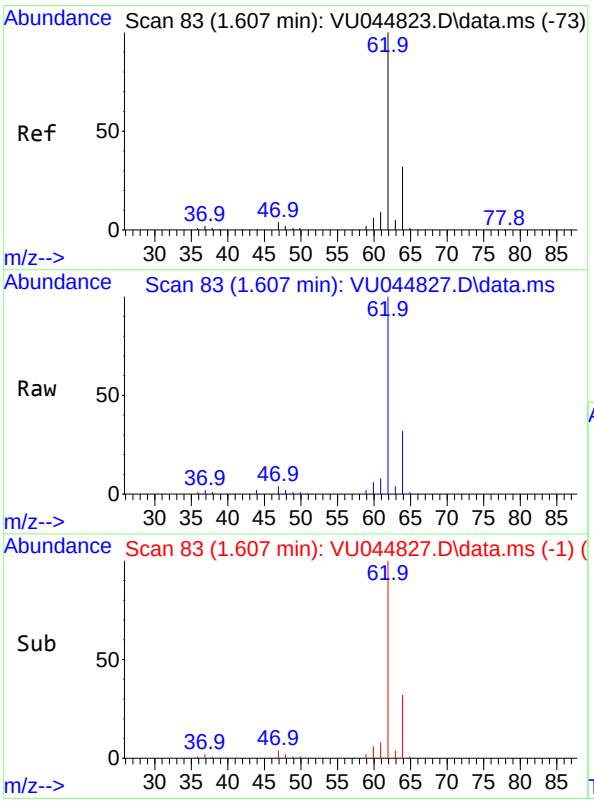


#3
Chloromethane
Concen: 47.712 ug/l
RT: 1.520 min Scan# 56
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 50 Resp: 138898

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.3	39.5

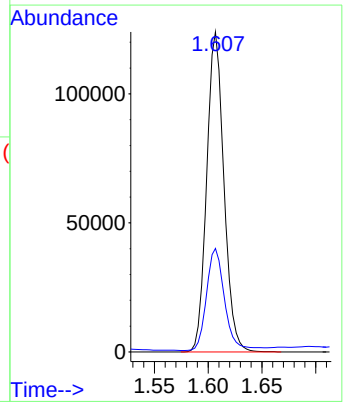




#4
Vinyl Chloride
Concen: 50.877 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 62 Resp: 138235

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.6	38.4



Instrument :
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ClientSampleId :
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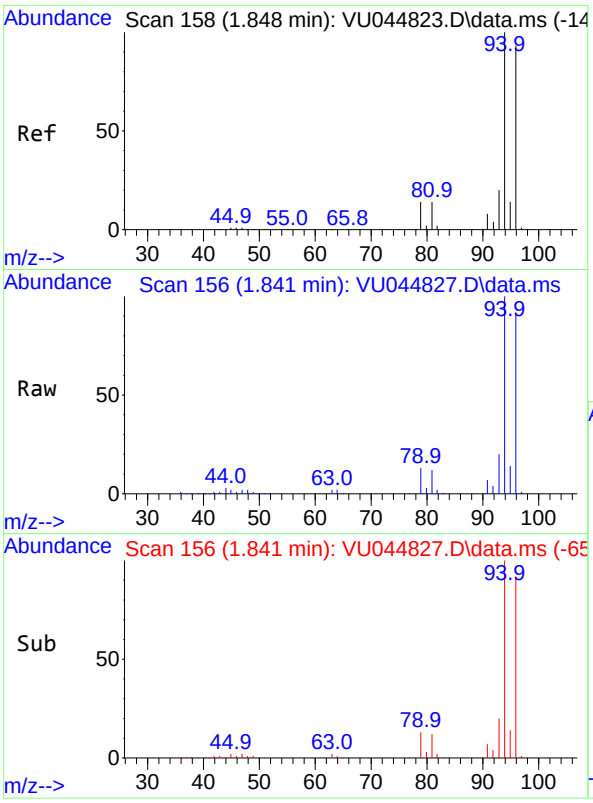
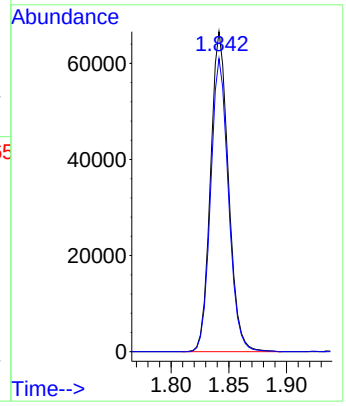
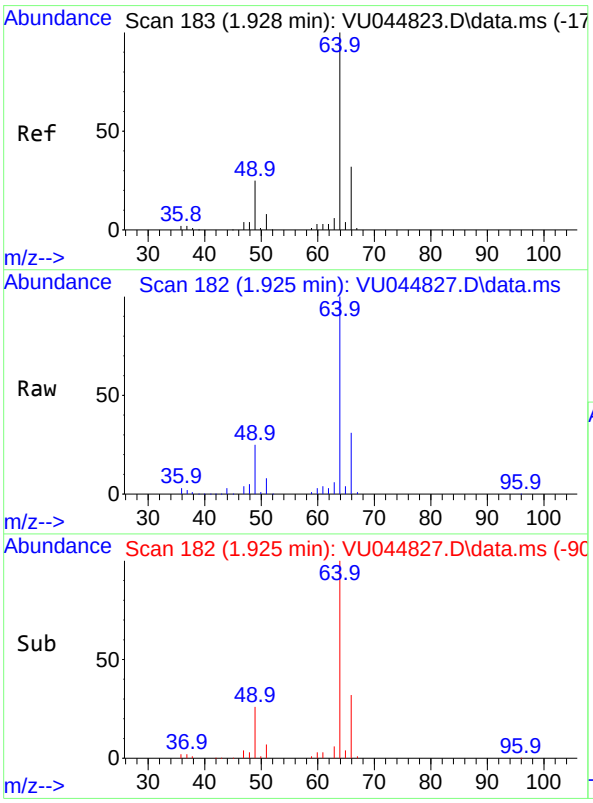


#5
Bromomethane
Concen: 55.023 ug/l
RT: 1.841 min Scan# 156
Delta R.T. -0.007 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 94 Resp: 72064

Ion	Ratio	Lower	Upper
94	100		
96	91.6	74.5	111.7

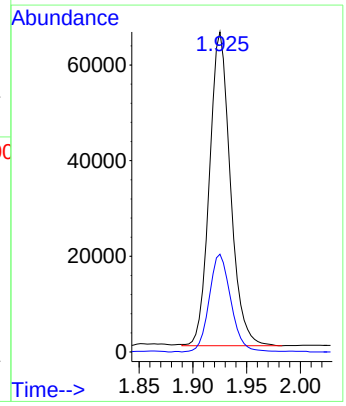




#6
Chloroethane
Concen: 48.701 ug/l
RT: 1.925 min Scan# 182
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 64 Resp: 88813

Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.8	38.8



Instrument :
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ClientSampleId :
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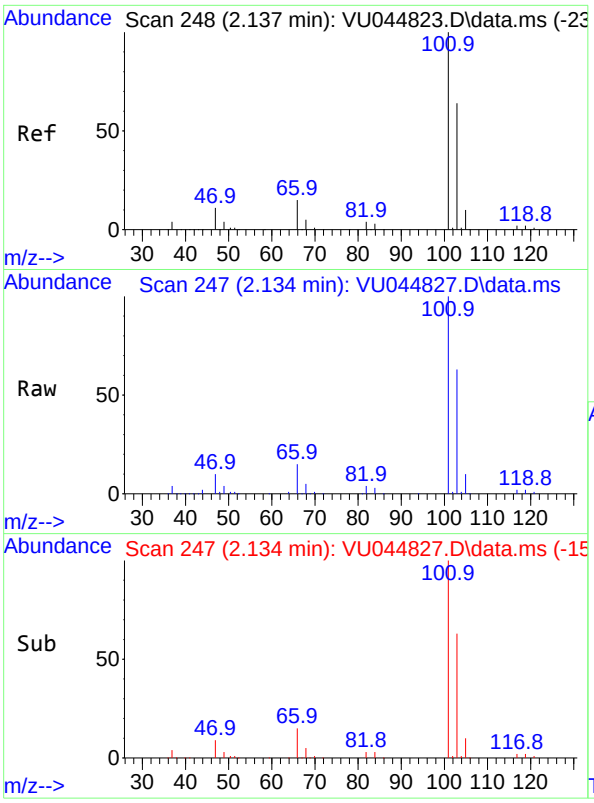
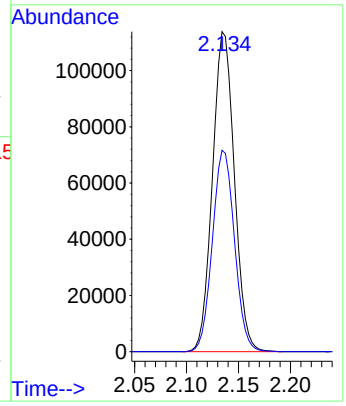
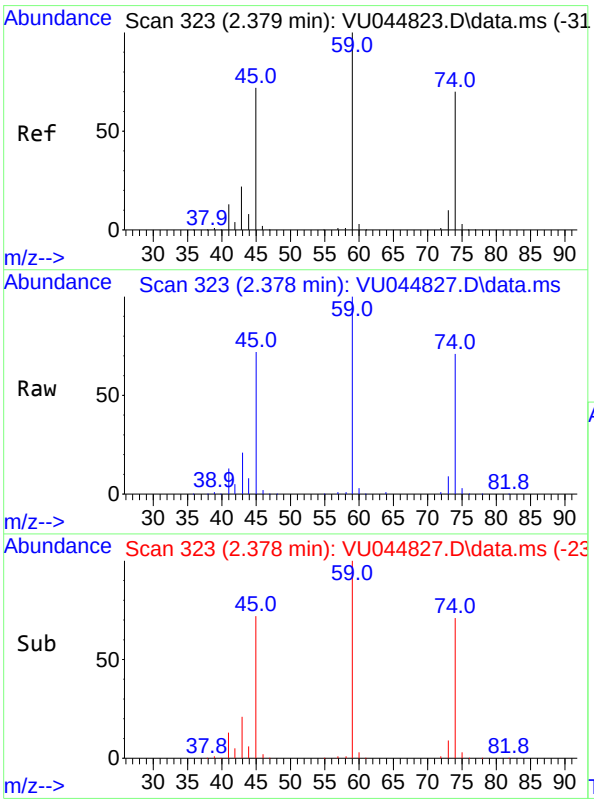


#7
Trichlorofluoromethane
Concen: 49.955 ug/l
RT: 2.134 min Scan# 247
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:101 Resp: 166687

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.2	76.8

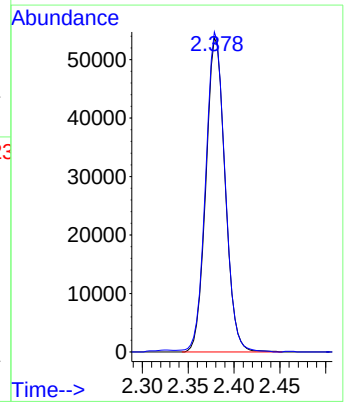




#8
Diethyl Ether
Concen: 51.129 ug/l
RT: 2.378 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 74 Resp: 78099

Ion	Ratio	Lower	Upper
74	100		
45	102.9	52.2	156.6



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ClientSampleId :
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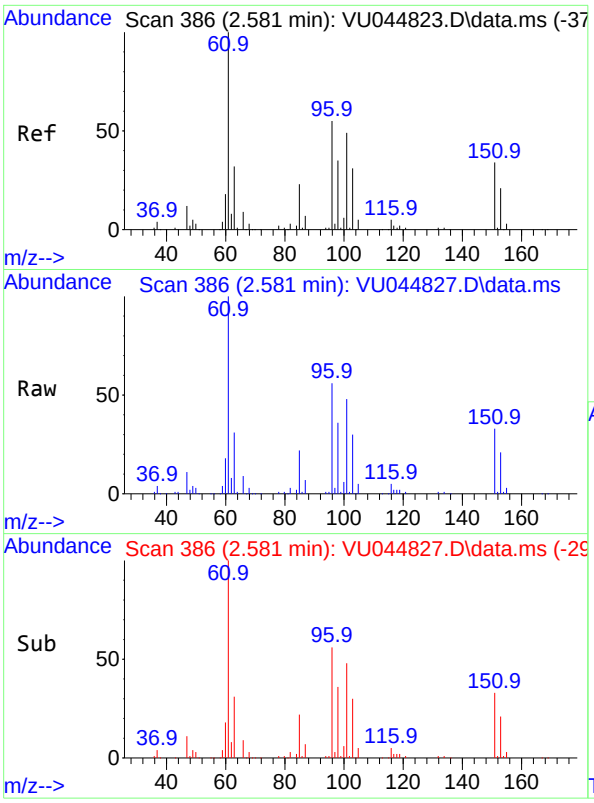
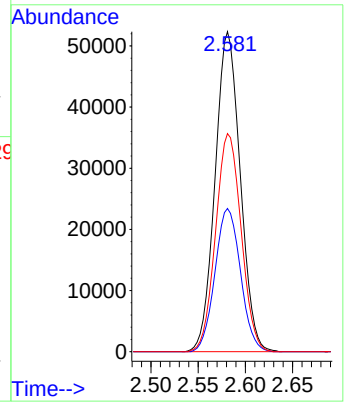
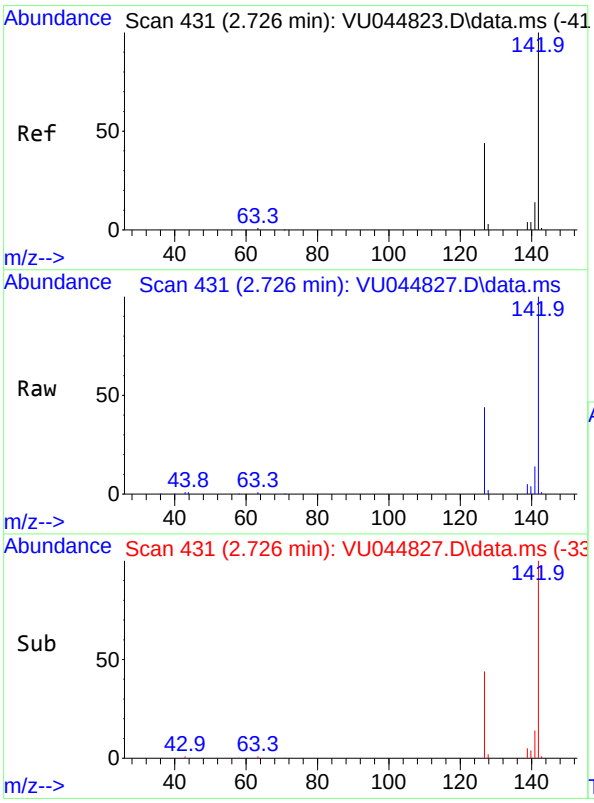


#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.674 ug/l
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:101 Resp: 96796

Ion	Ratio	Lower	Upper
101	100		
85	45.4	37.2	55.8
151	69.2	55.8	83.8

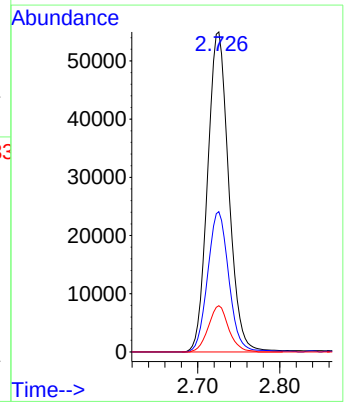




#10
Methyl Iodide
Concen: 46.445 ug/l
RT: 2.726 min Scan# 431
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:142 Resp: 98346

Ion	Ratio	Lower	Upper
142	100		
127	44.1	35.6	53.4
141	13.9	11.3	16.9



Instrument :
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ClientSampleId :
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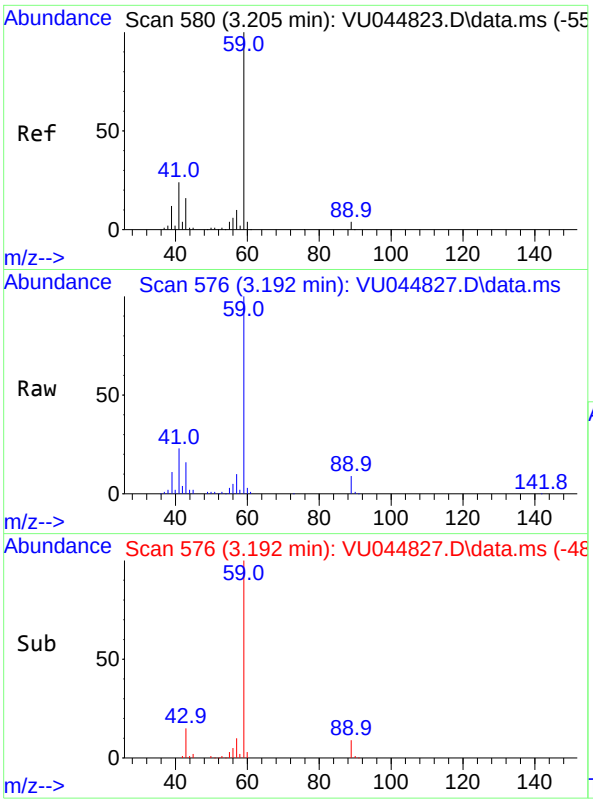
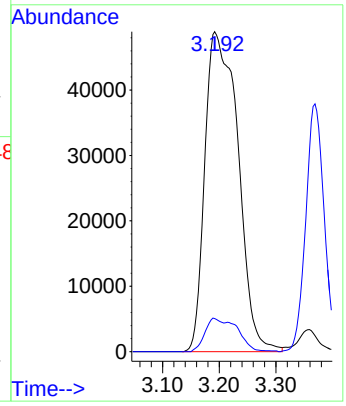
9/27/2021 11:02:52 AM

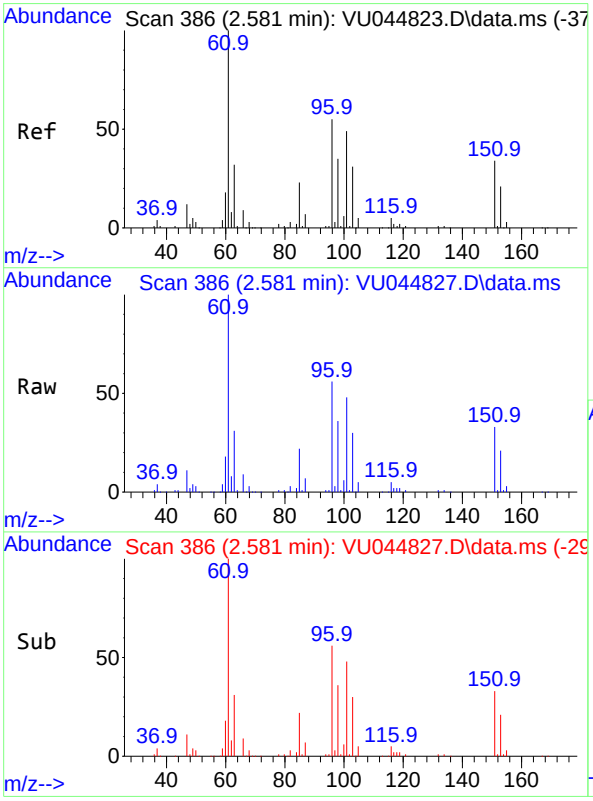


#11
Tert butyl alcohol
Concen: 242.592 ug/l
RT: 3.192 min Scan# 576
Delta R.T. -0.013 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 59 Resp: 197933

Ion	Ratio	Lower	Upper
59	100		
57	5.6	8.3	12.5#

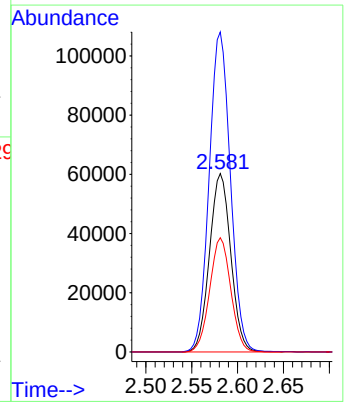




#12
1,1-Dichloroethene
Concen: 50.487 ug/l
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 96 Resp: 97364

Ion	Ratio	Lower	Upper
96	100		
61	179.4	145.4	218.0
98	64.0	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
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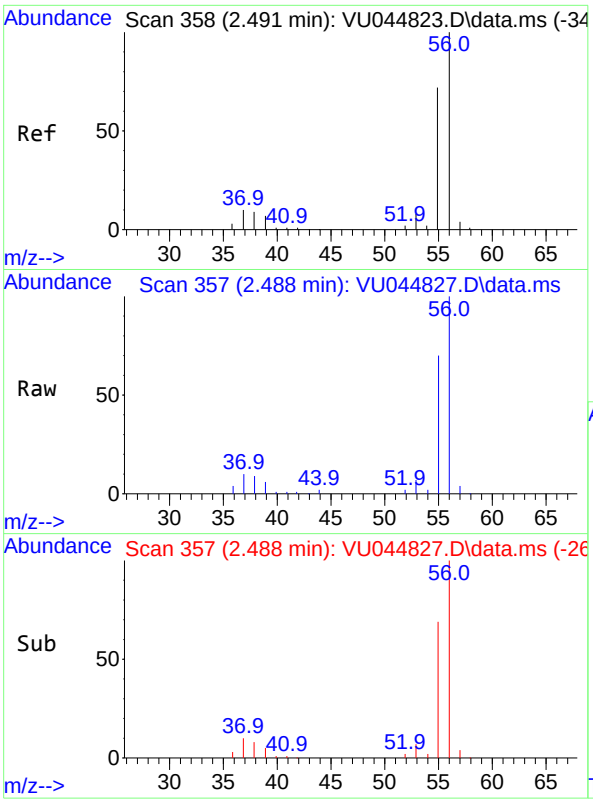
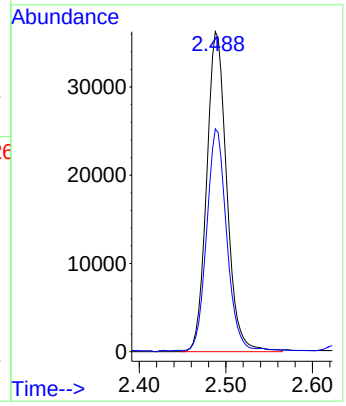
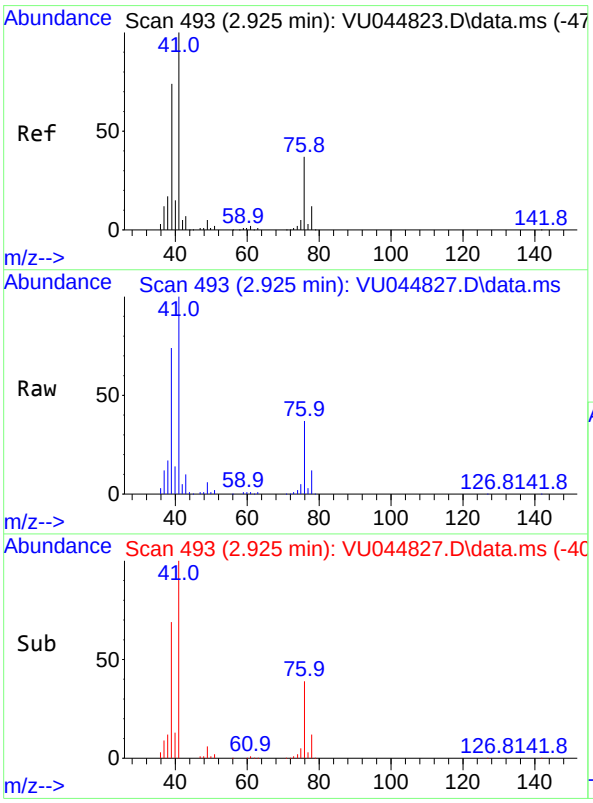


#13
Acrolein
Concen: 264.876 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 56 Resp: 58363

Ion	Ratio	Lower	Upper
56	100		
55	68.6	57.4	86.0

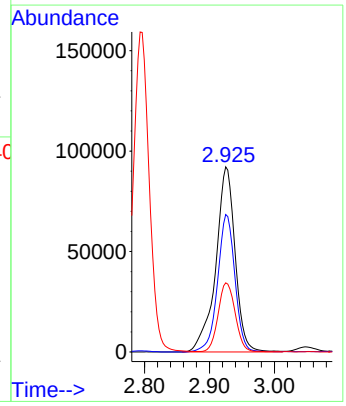




#14
Allyl chloride
Concen: 51.015 ug/l
RT: 2.925 min Scan# 493
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 41 Resp: 190961

Ion	Ratio	Lower	Upper
41	100		
39	66.3	53.0	79.6
76	32.7	25.7	38.5



Instrument :
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ClientSampleId :
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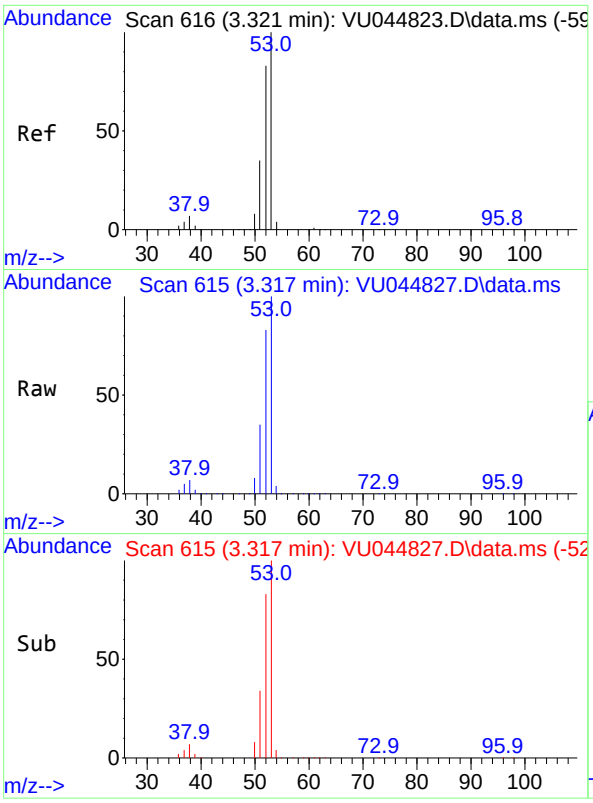
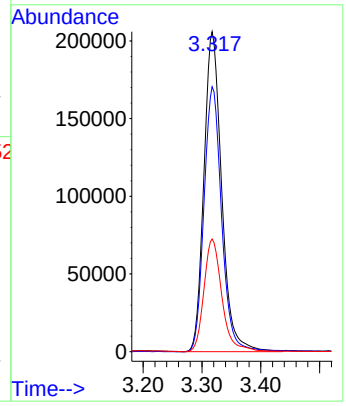
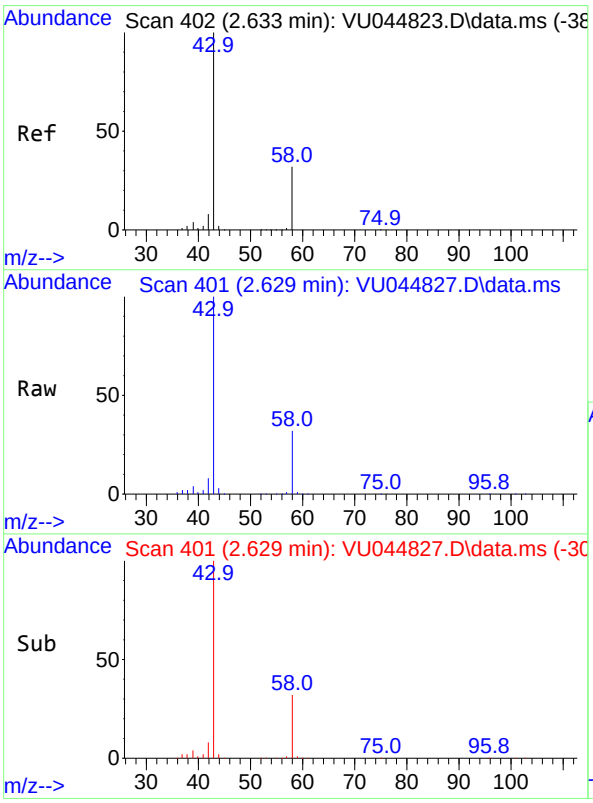


#15
Acrylonitrile
Concen: 253.320 ug/l
RT: 3.317 min Scan# 615
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 53 Resp: 431742

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.0	99.0
51	35.9	28.6	42.8

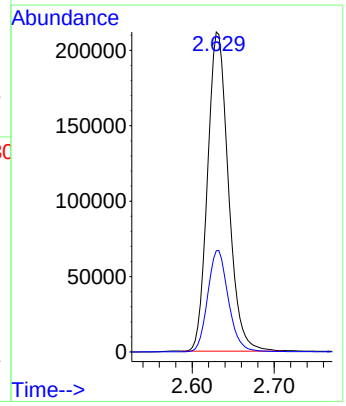




#16
Acetone
Concen: 236.578 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 373038

Ion	Ratio	Lower	Upper
43	100		
58	31.6	25.2	37.8



Instrument :
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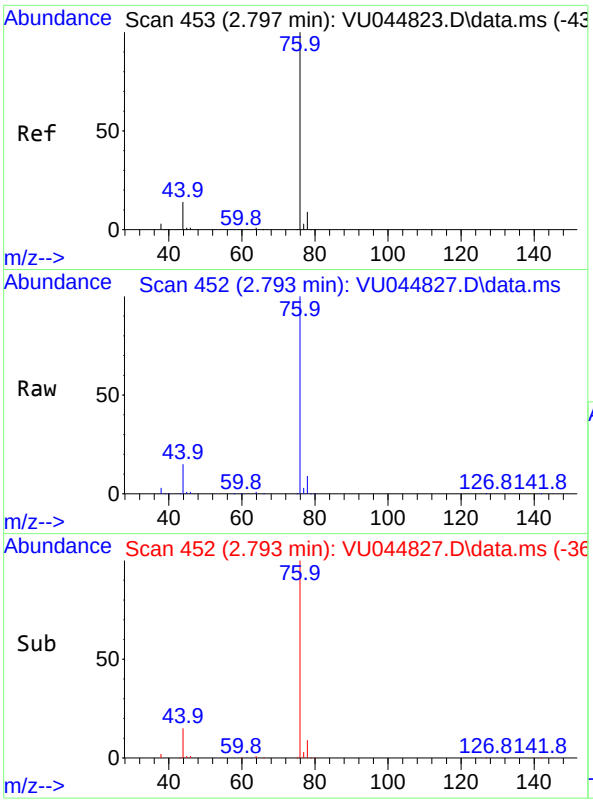
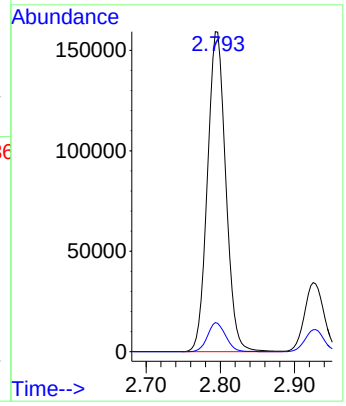
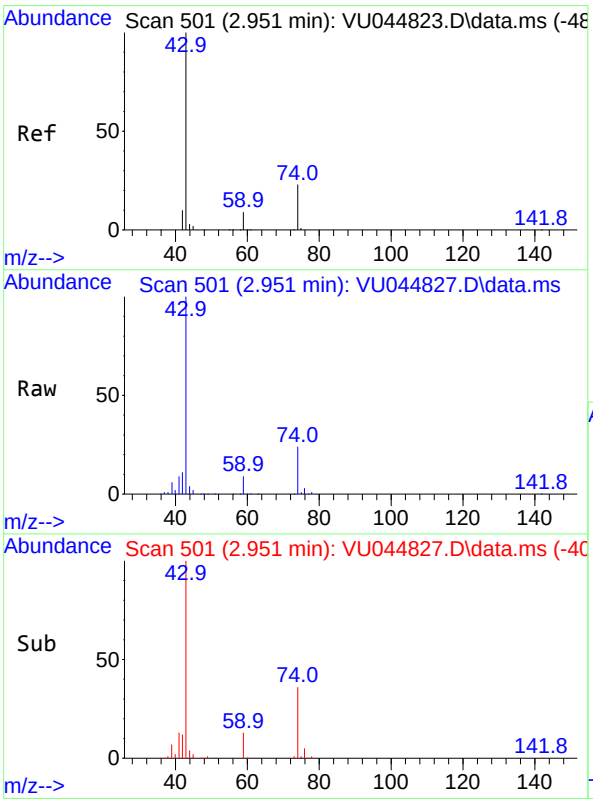


#17
Carbon Disulfide
Concen: 50.210 ug/l
RT: 2.793 min Scan# 452
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 76 Resp: 272402

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

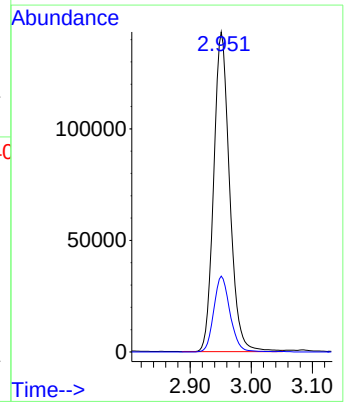




#18
Methyl Acetate
Concen: 49.262 ug/l
RT: 2.951 min Scan# 501
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 259509

Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.0	28.6



Instrument :
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ClientSampleId :
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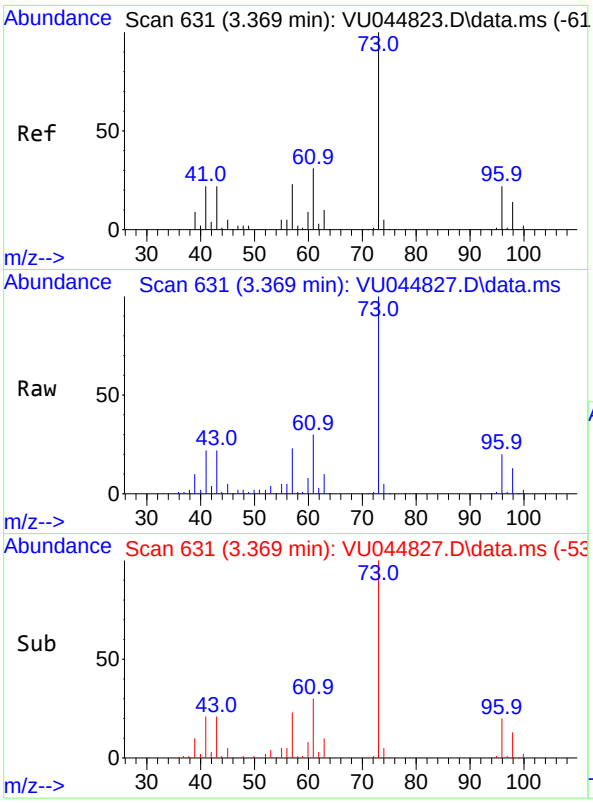
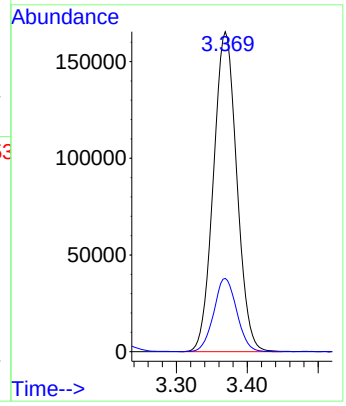
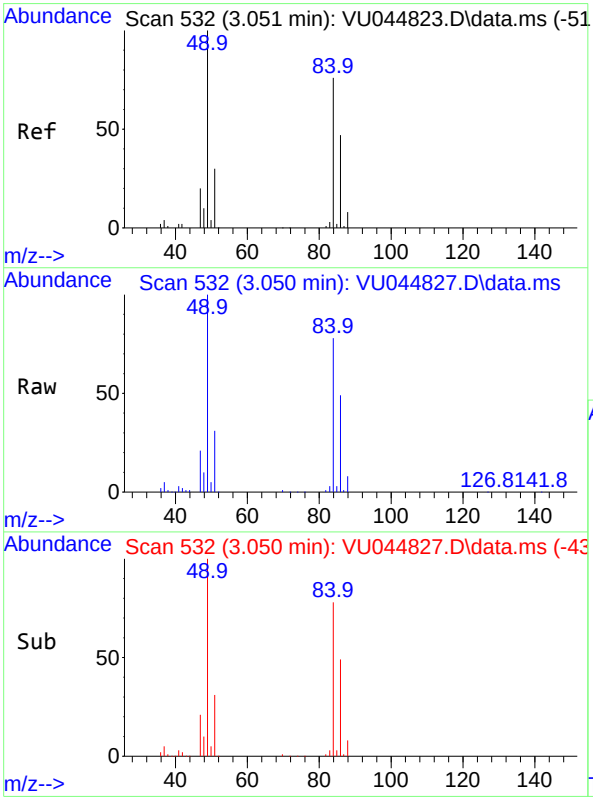


#19
Methyl tert-butyl Ether
Concen: 52.584 ug/l
RT: 3.369 min Scan# 631
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 73 Resp: 378679

Ion	Ratio	Lower	Upper
73	100		
57	22.9	18.2	27.2

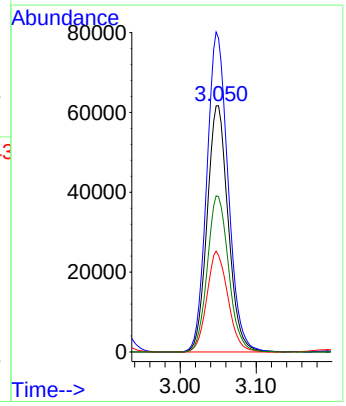




#20
Methylene Chloride
Concen: 46.490 ug/l
RT: 3.050 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 84 Resp: 118664

Ion	Ratio	Lower	Upper
84	100		
49	127.4	104.9	157.3
51	39.3	31.8	47.8
86	63.1	49.8	74.6



Instrument :
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ClientSampleId :
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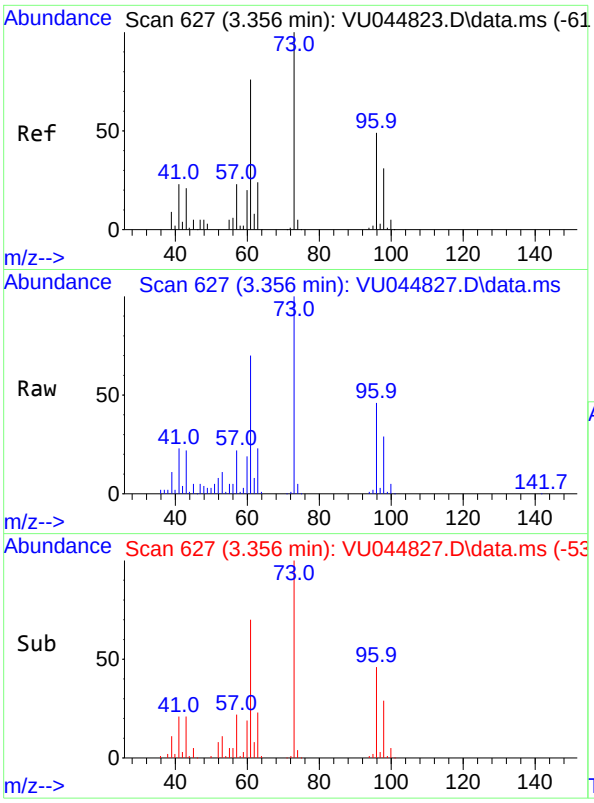
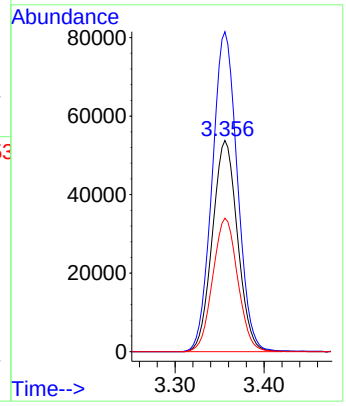
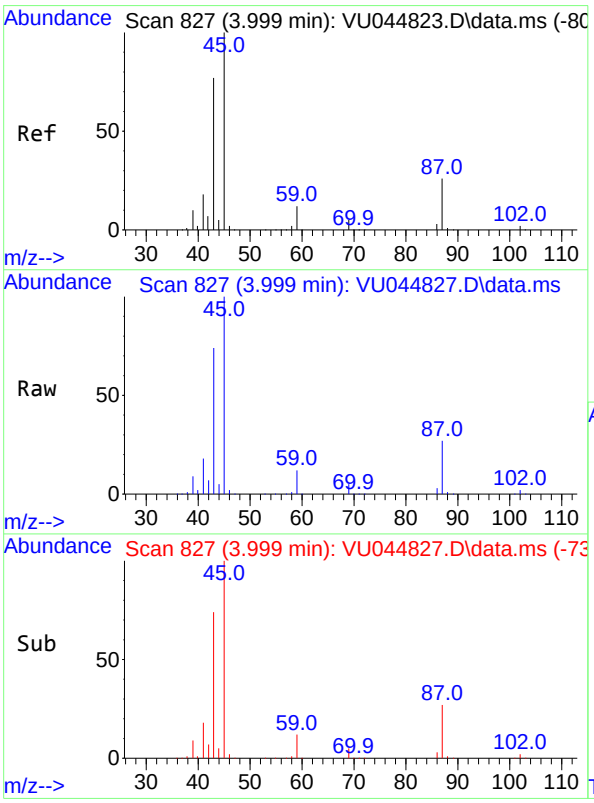


#21
trans-1,2-Dichloroethene
Concen: 51.052 ug/l
RT: 3.356 min Scan# 627
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 96 Resp: 105415

Ion	Ratio	Lower	Upper
96	100		
61	151.6	123.2	184.8
98	63.2	51.0	76.6

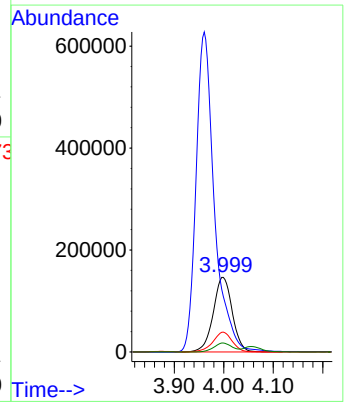




#22
Diisopropyl ether
Concen: 52.787 ug/l
RT: 3.999 min Scan# 827
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 45 Resp: 390407

Ion	Ratio	Lower	Upper
45	100		
43	73.8	62.3	93.5
87	26.6	21.0	31.4
59	12.0	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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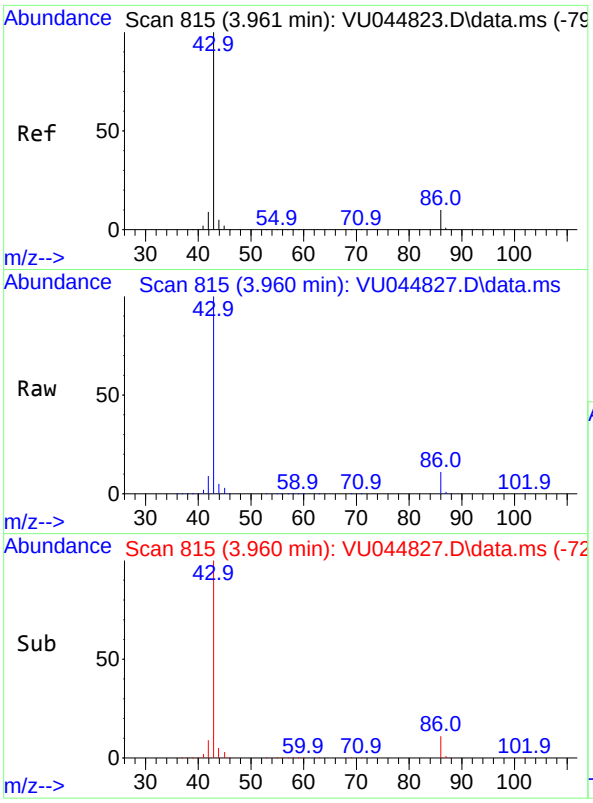
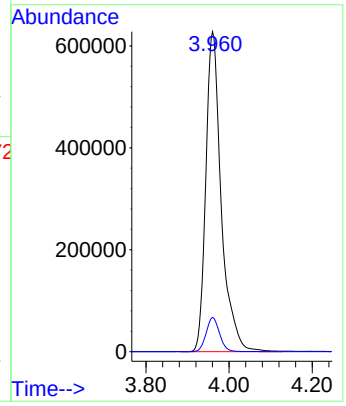
9/27/2021 11:02:52 AM

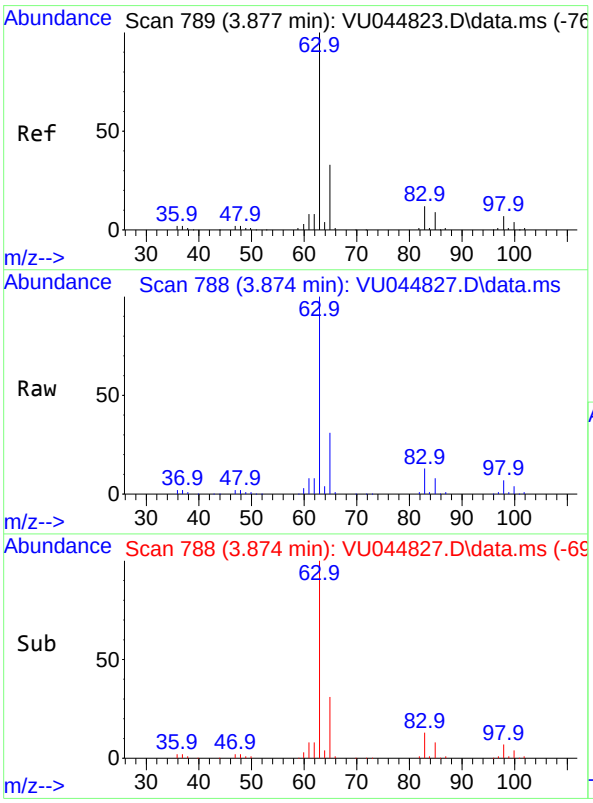


#23
Vinyl Acetate
Concen: 266.913 ug/l
RT: 3.960 min Scan# 815
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 1618844

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.4

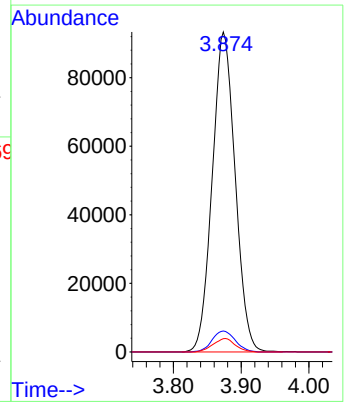




#24
1,1-Dichloroethane
Concen: 51.054 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 63 Resp: 219167

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.5	10.4
100	4.1	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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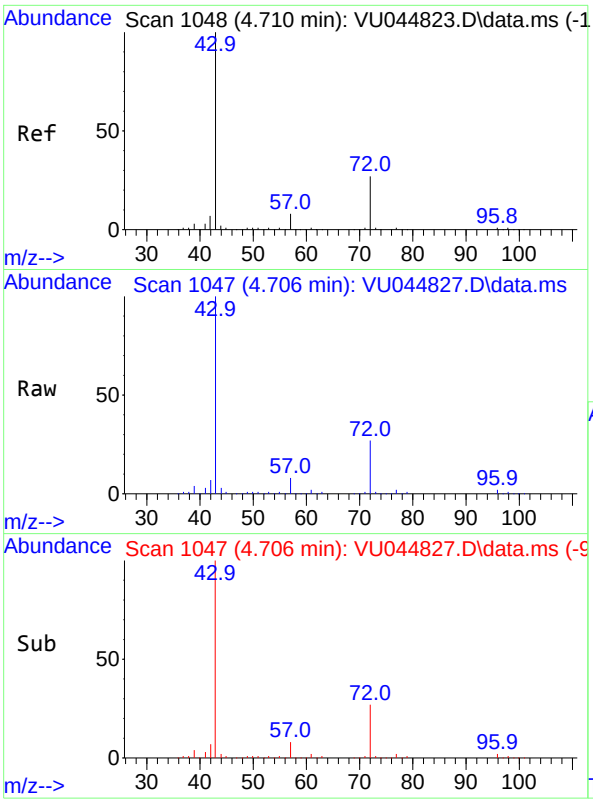
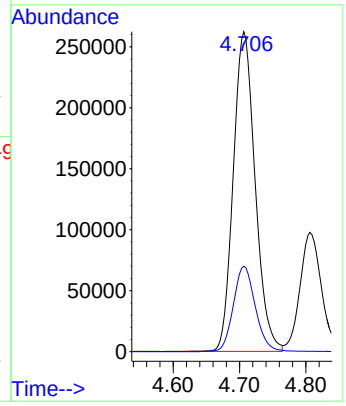
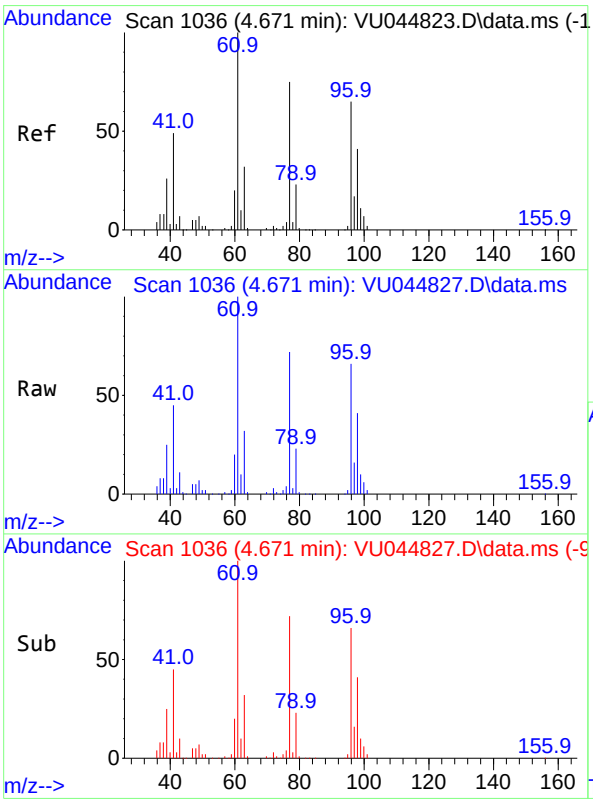


#25
2-Butanone
Concen: 250.939 ug/l
RT: 4.706 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 600373

Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.3	31.9

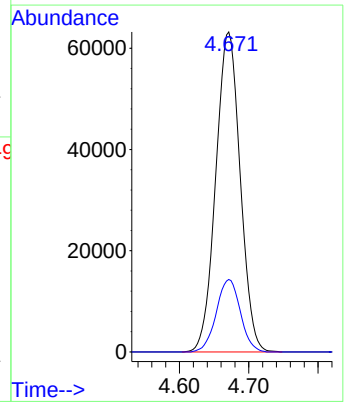




#26
2,2-Dichloropropane
Concen: 48.114 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 77 Resp: 154894

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.8	32.4



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ClientSampleId :
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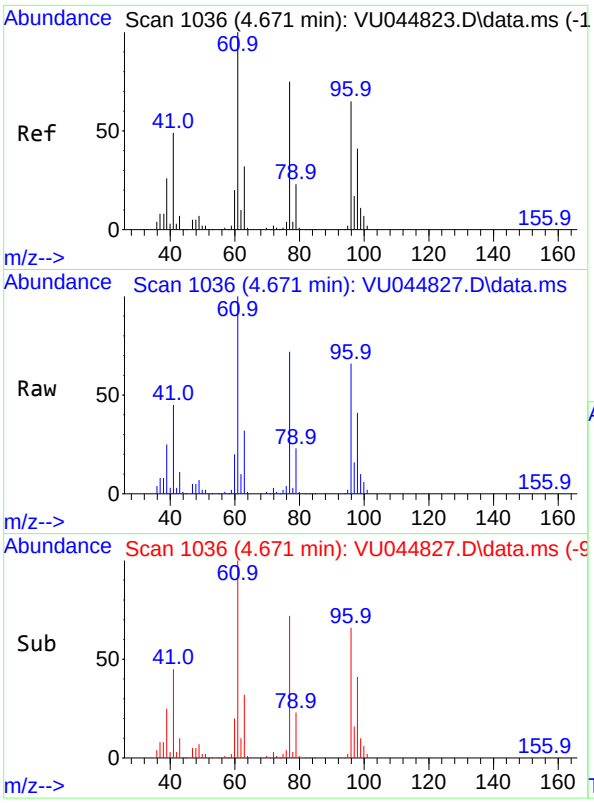
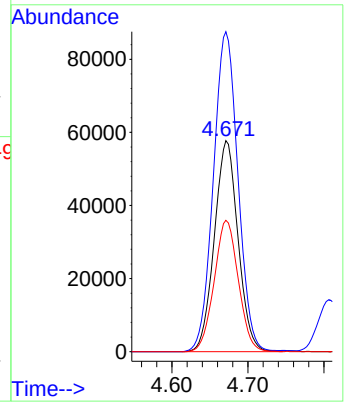
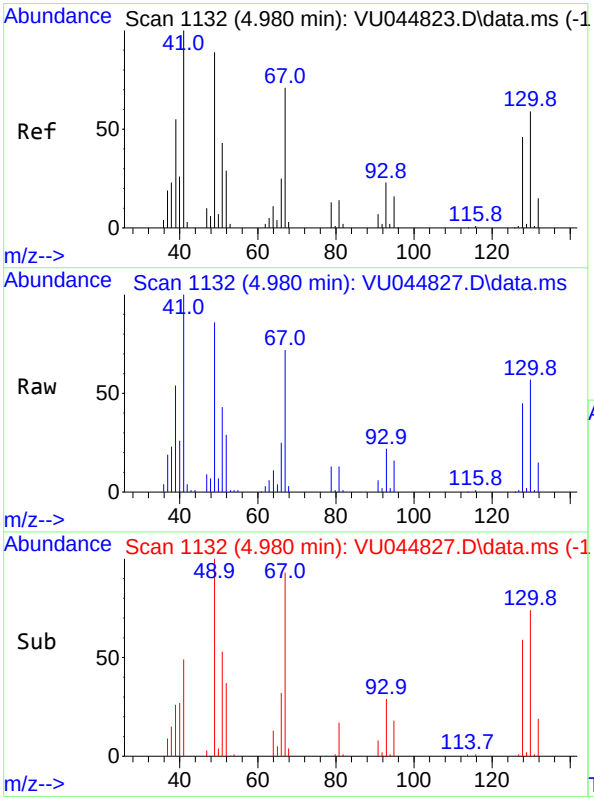


#27
cis-1,2-Dichloroethene
Concen: 49.732 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 96 Resp: 124893

Ion	Ratio	Lower	Upper
96	100		
61	157.3	0.0	313.4
98	63.5	0.0	127.0

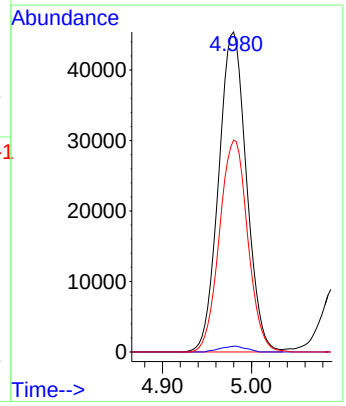




#28
Bromochloromethane
Concen: 48.237 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 49 Resp: 98402

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	67.3	53.4	80.2



Instrument :
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ClientSampleId :
ICVVU092521

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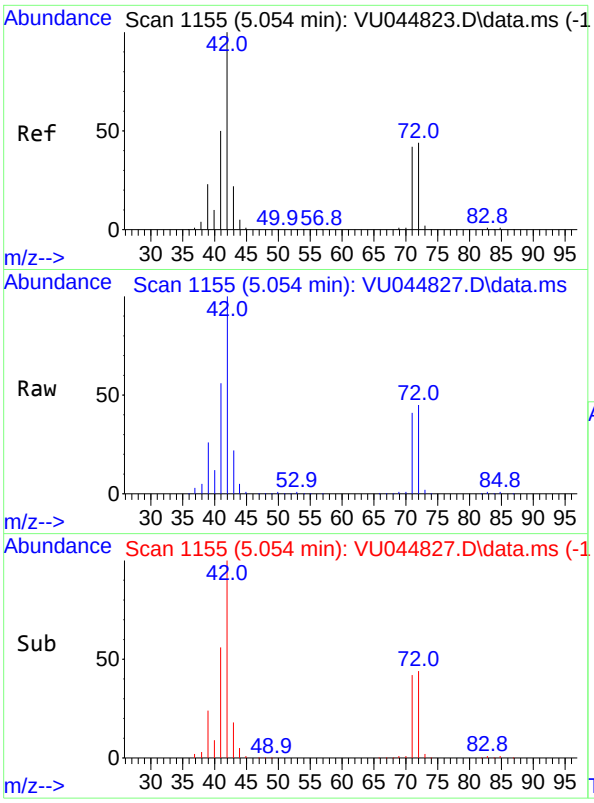
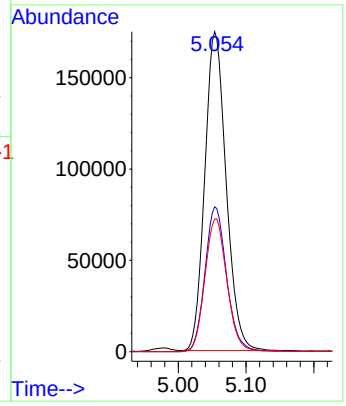
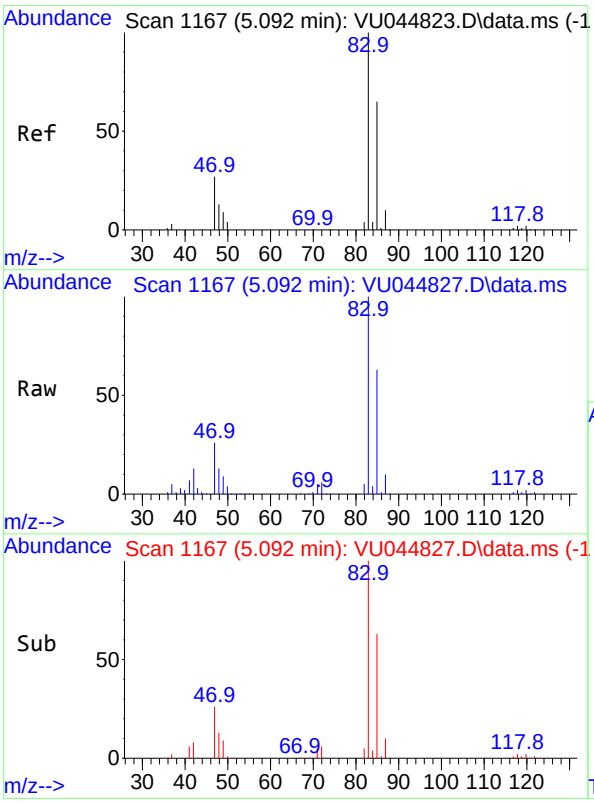


#29
Tetrahydrofuran
Concen: 253.943 ug/l
RT: 5.054 min Scan# 1155
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 42 Resp: 382228

Ion	Ratio	Lower	Upper
42	100		
72	46.1	36.2	54.4
71	42.7	34.1	51.1

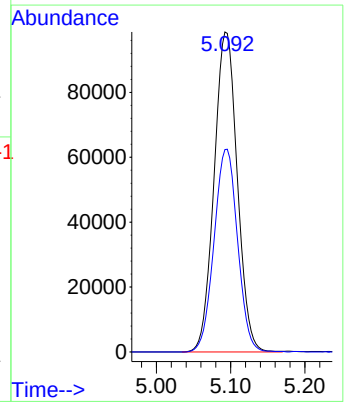




#30
Chloroform
Concen: 49.590 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 83 Resp: 214048

Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.1	78.1



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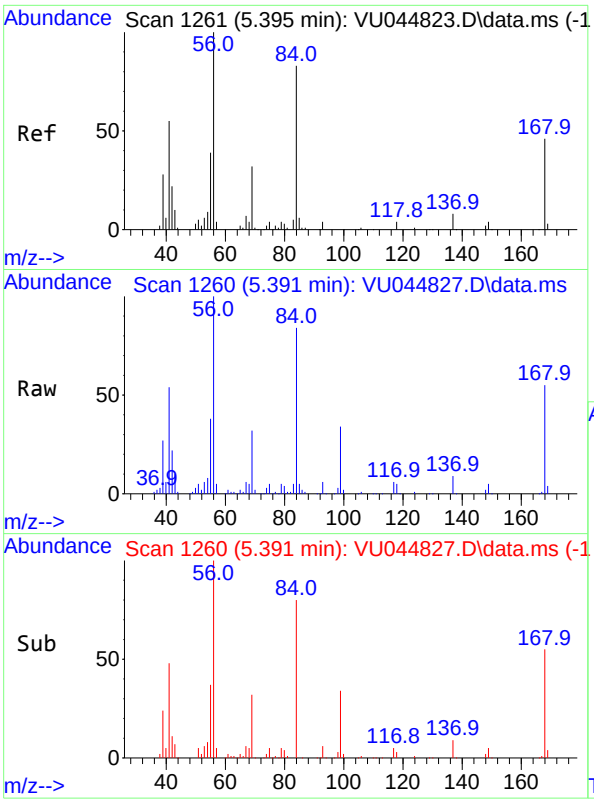
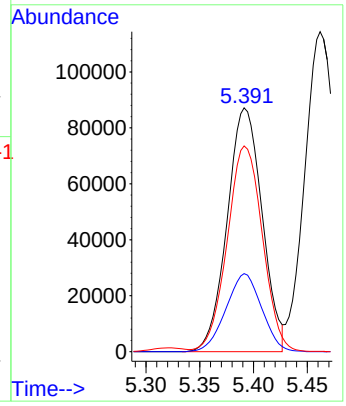
9/27/2021 11:02:52 AM

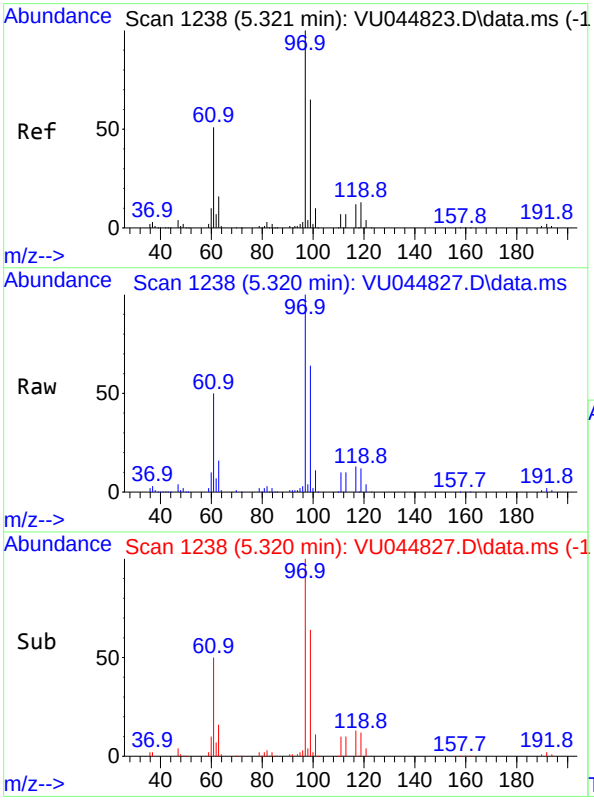


#31
Cyclohexane
Concen: 49.090 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 56 Resp: 197015

Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.2	37.8
84	83.2	66.4	99.6

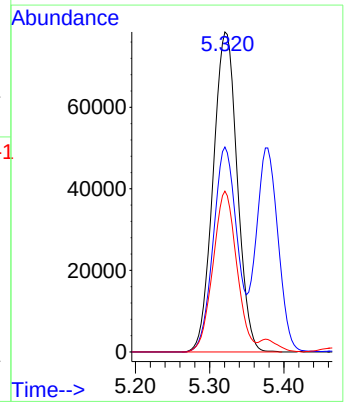




#32
1,1,1-Trichloroethane
Concen: 50.765 ug/l
RT: 5.320 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 97 Resp: 177047

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.9	76.3
61	49.6	40.7	61.1



Instrument :
MSVOA_U
ClientSampleId :
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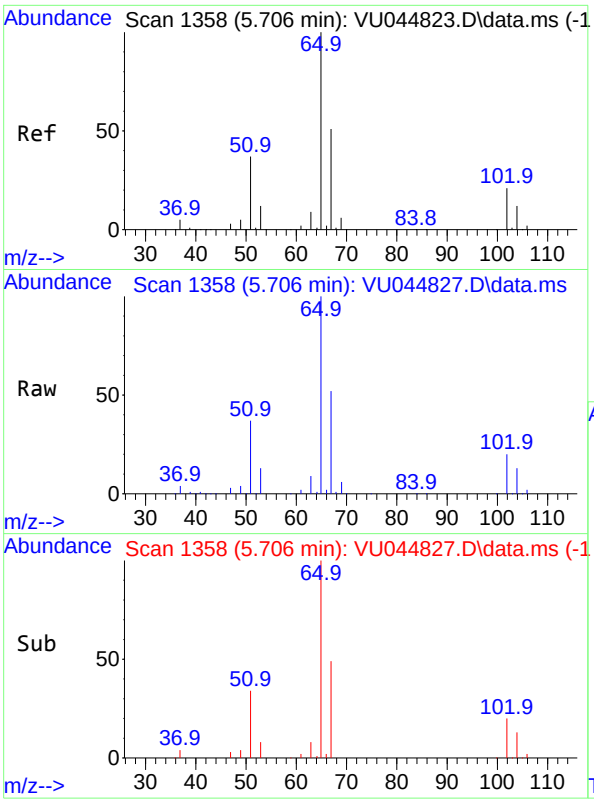
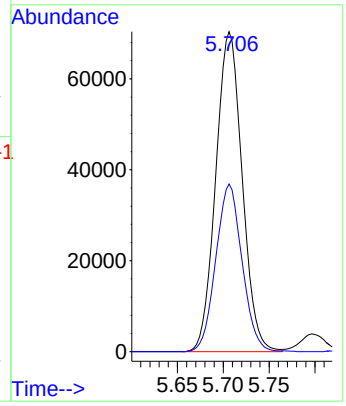
9/27/2021 11:02:52 AM

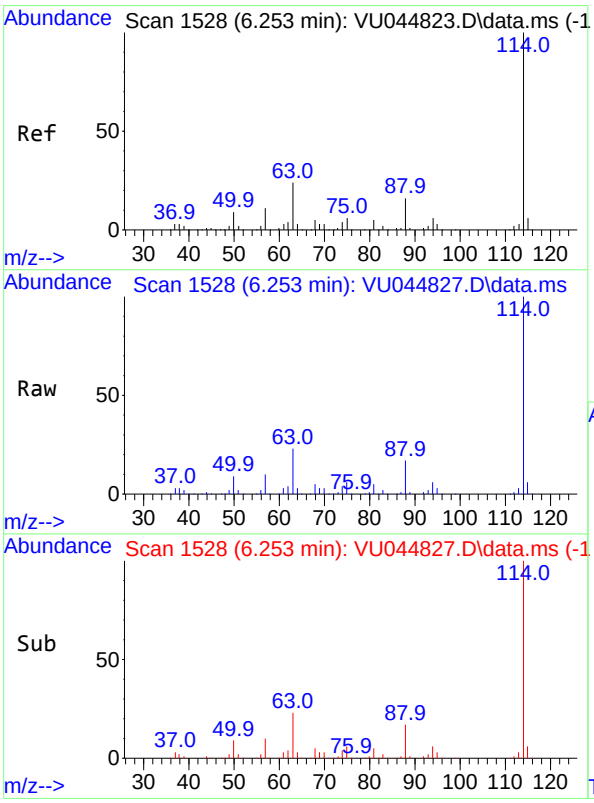


#33
1,2-Dichloroethane-d4
Concen: 50.420 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 65 Resp: 140945

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.8

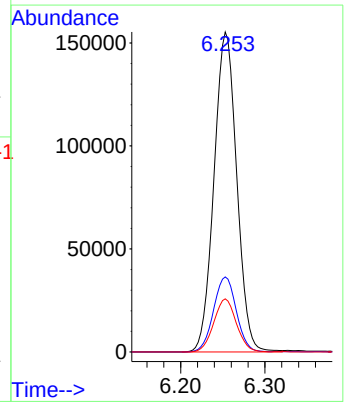




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:114 Resp: 290881

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	47.8
88	16.6	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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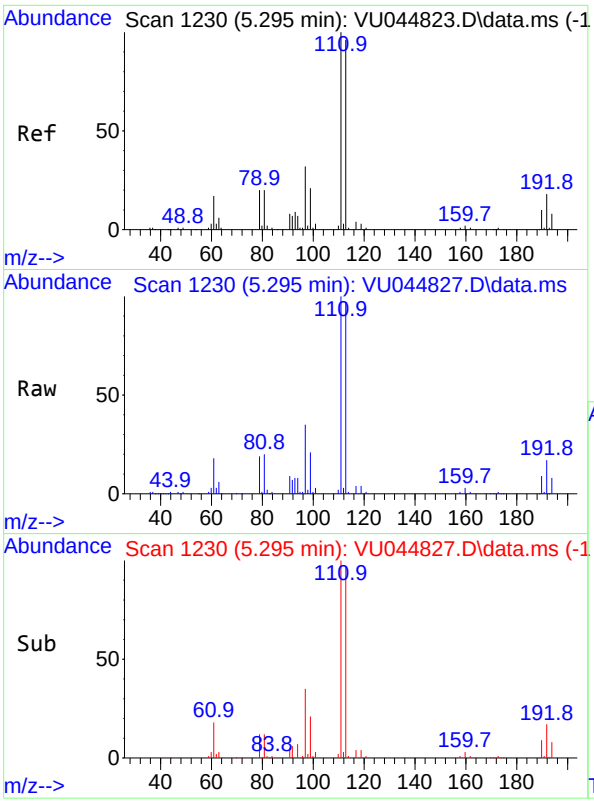
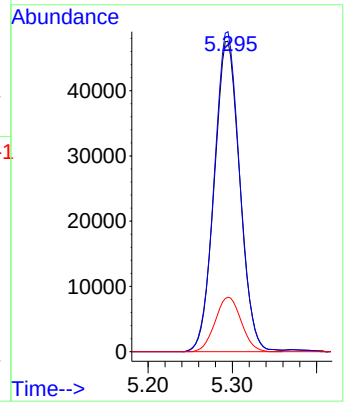
9/27/2021 11:02:52 AM

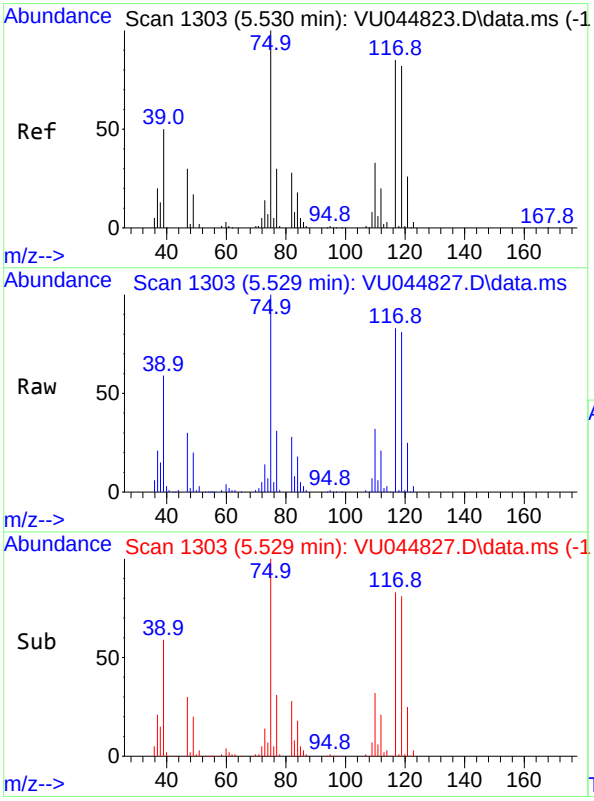


#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:113 Resp: 100132

Ion	Ratio	Lower	Upper
113	100		
111	102.2	84.1	126.1
192	17.9	14.8	22.2

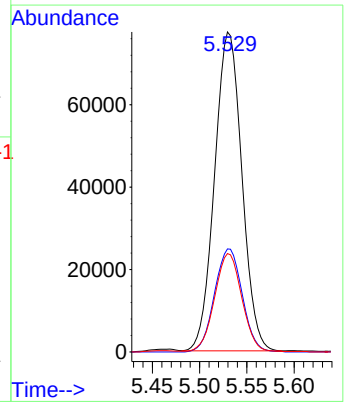




#36
1,1-Dichloropropene
Concen: 50.340 ug/l
RT: 5.529 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 75 Resp: 155364

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.3	48.9
77	30.5	25.0	37.4



Instrument :
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ClientSampleId :
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Manual Integrations APPROVED
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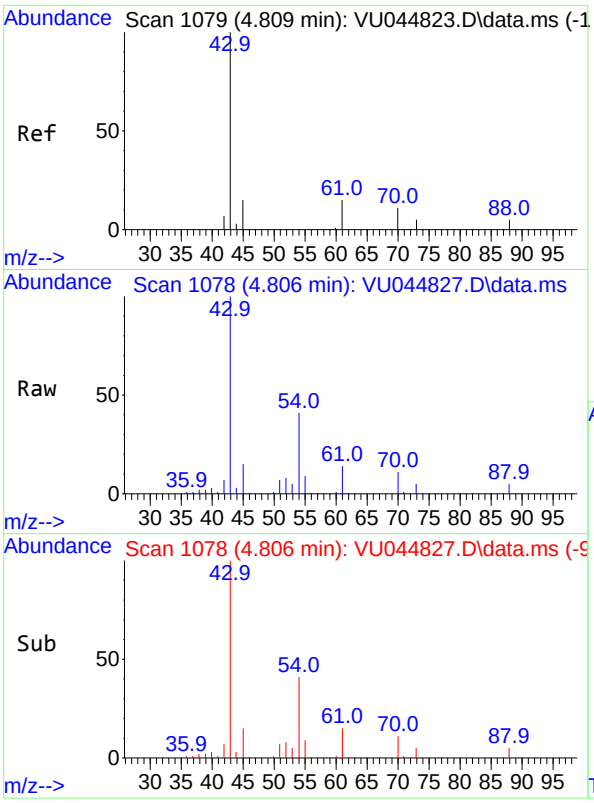
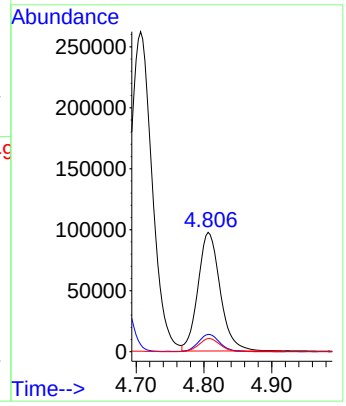
9/27/2021 11:02:52 AM

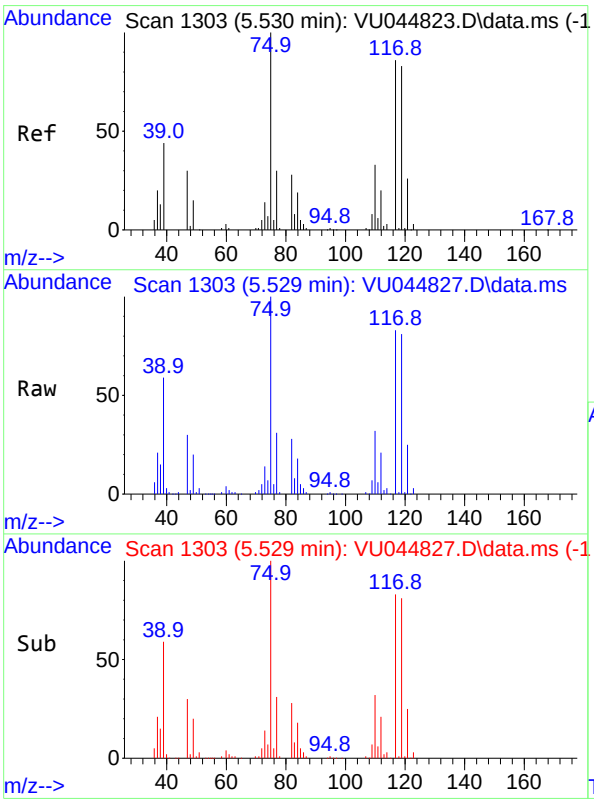


#37
Ethyl Acetate
Concen: 48.823 ug/l
RT: 4.806 min Scan# 1078
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 221096

Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.9	16.3
70	10.6	8.2	12.4

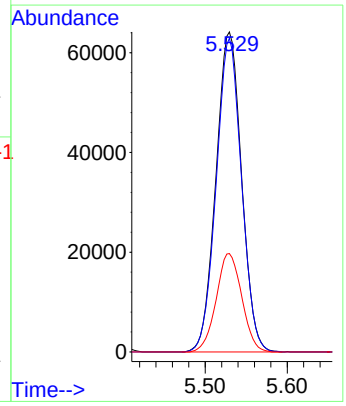




#38
Carbon Tetrachloride
Concen: 50.465 ug/l
RT: 5.529 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:117 Resp: 139241

Ion	Ratio	Lower	Upper
117	100		
119	98.0	77.4	116.2
121	30.7	24.5	36.7



Instrument :
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ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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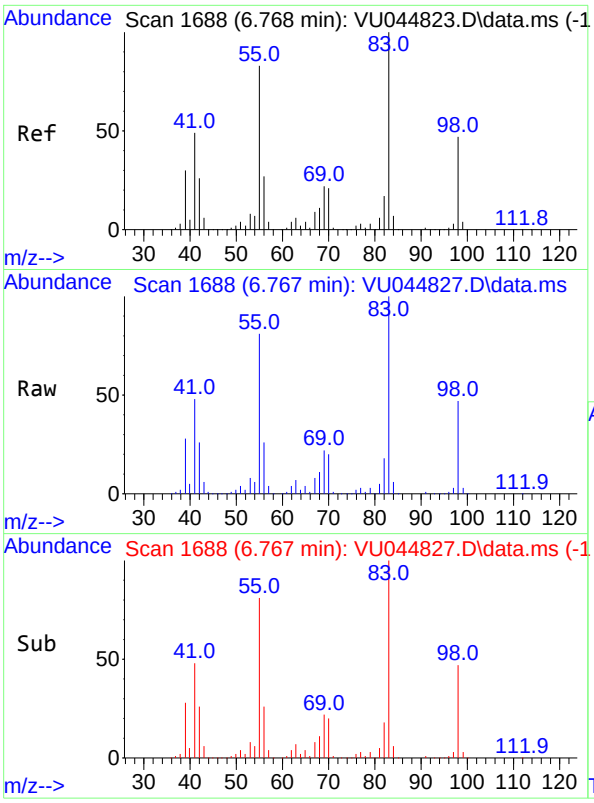
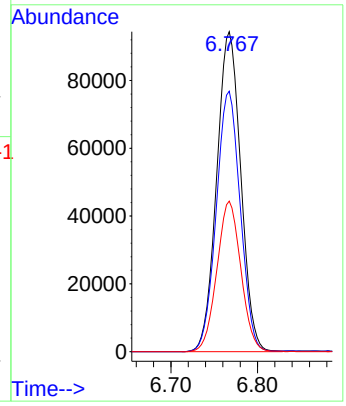
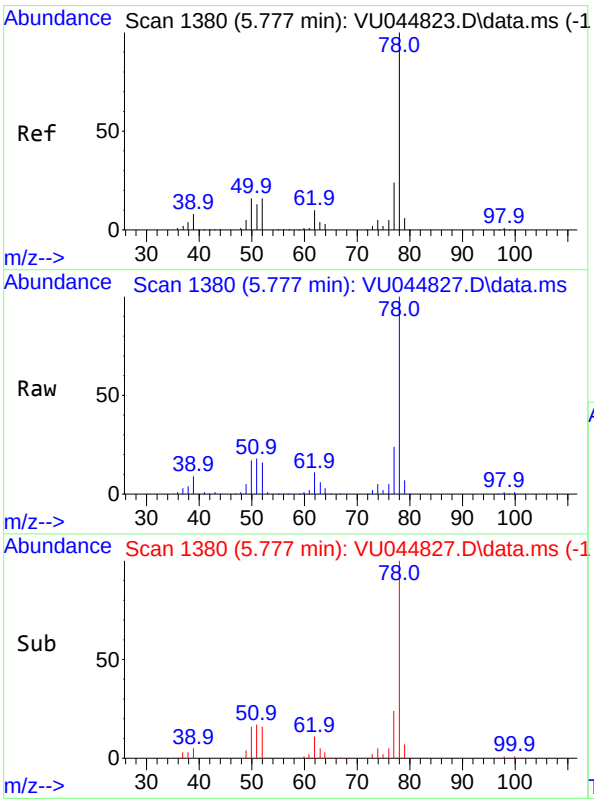


#39
Methylcyclohexane
Concen: 52.218 ug/l
RT: 6.767 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 83 Resp: 182274

Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.2	99.4
98	47.1	37.5	56.3

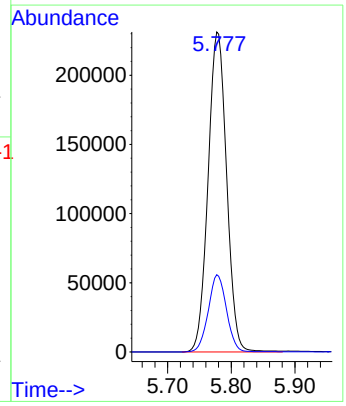




#40
Benzene
Concen: 49.765 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 78 Resp: 468272

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.1	28.7



Instrument :
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ClientSampleId :
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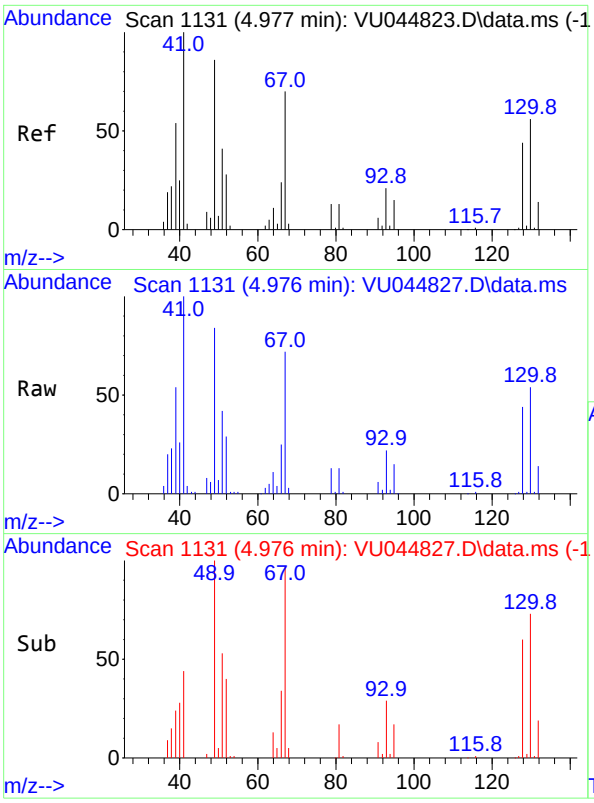
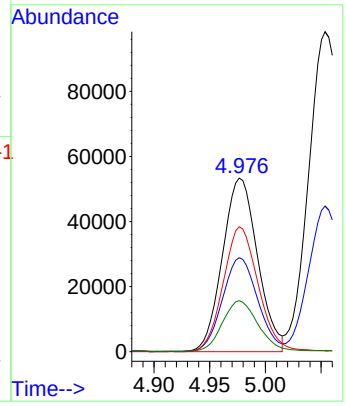
9/27/2021 11:02:52 AM

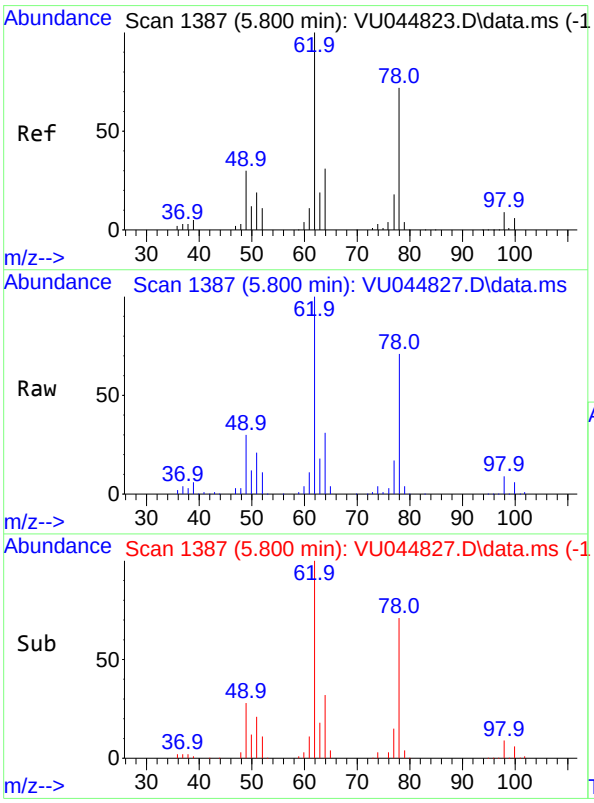


#41
Methacrylonitrile
Concen: 51.842 ug/l
RT: 4.976 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 41 Resp: 117185

Ion	Ratio	Lower	Upper
41	100		
39	54.8	44.4	66.6
67	72.3	58.1	87.1
52	29.9	23.8	35.8

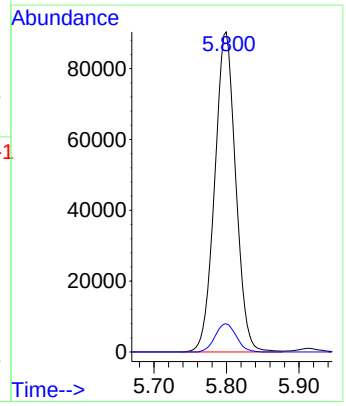




#42
1,2-Dichloroethane
Concen: 49.101 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 62 Resp: 181764

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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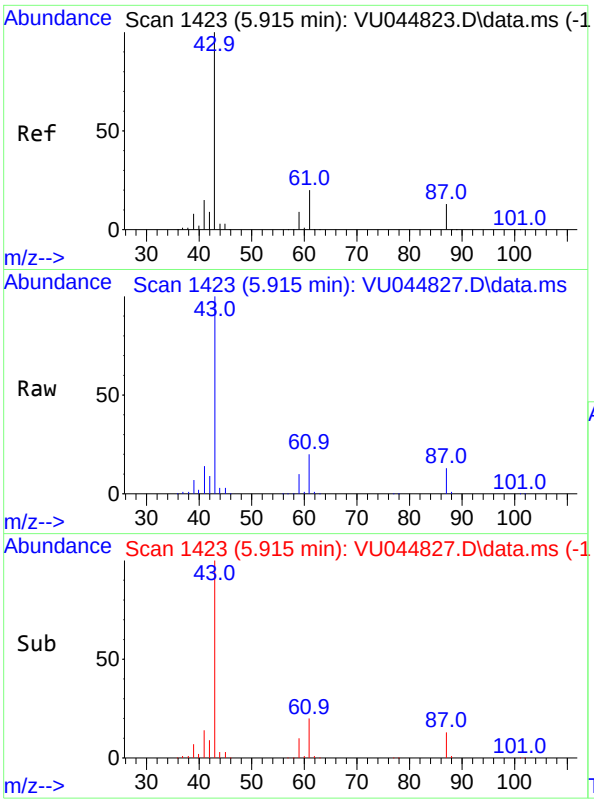
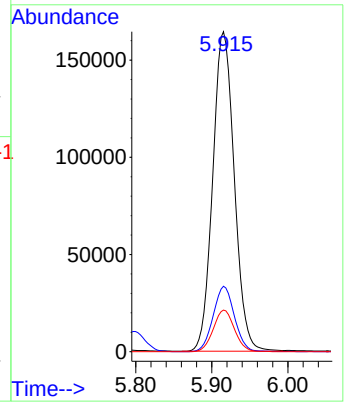
9/27/2021 11:02:52 AM

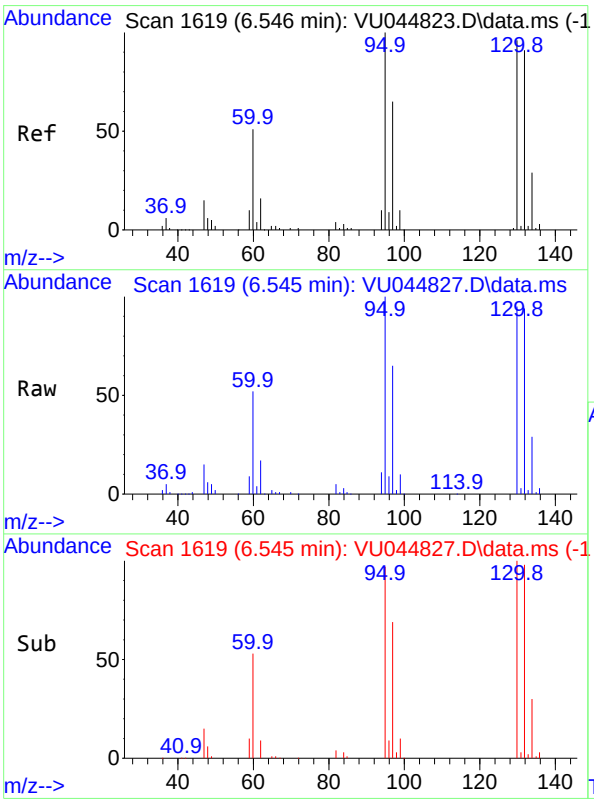


#43
Isopropyl Acetate
Concen: 51.076 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 323600

Ion	Ratio	Lower	Upper
43	100		
61	20.3	16.1	24.1
87	12.8	10.3	15.5

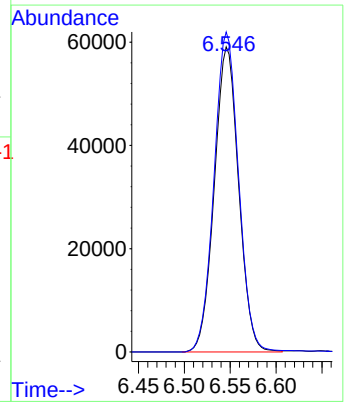




#44
Trichloroethene
Concen: 48.233 ug/l
RT: 6.545 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:130 Resp: 109077

Ion	Ratio	Lower	Upper
130	100		
95	104.9	0.0	209.0



Instrument :
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ClientSampleId :
ICVVU092521

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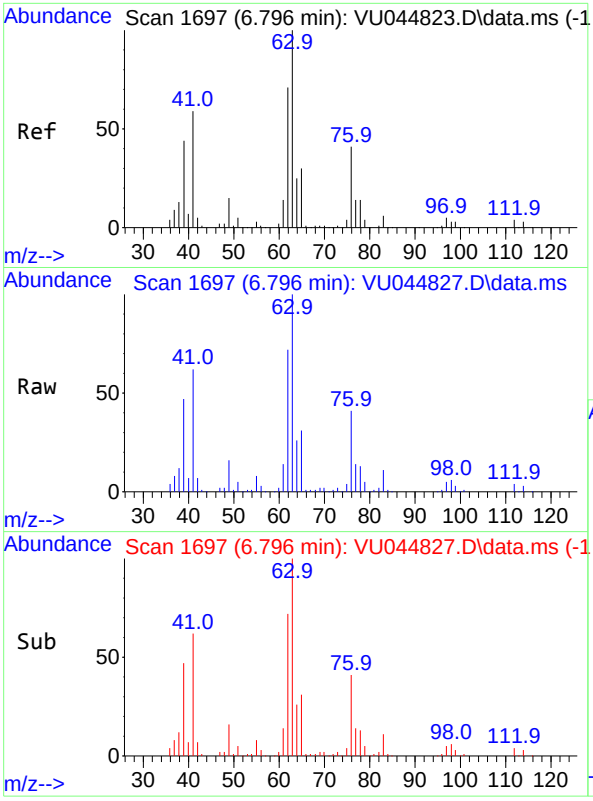
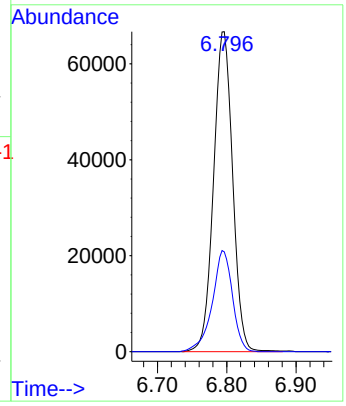
9/27/2021 11:02:52 AM

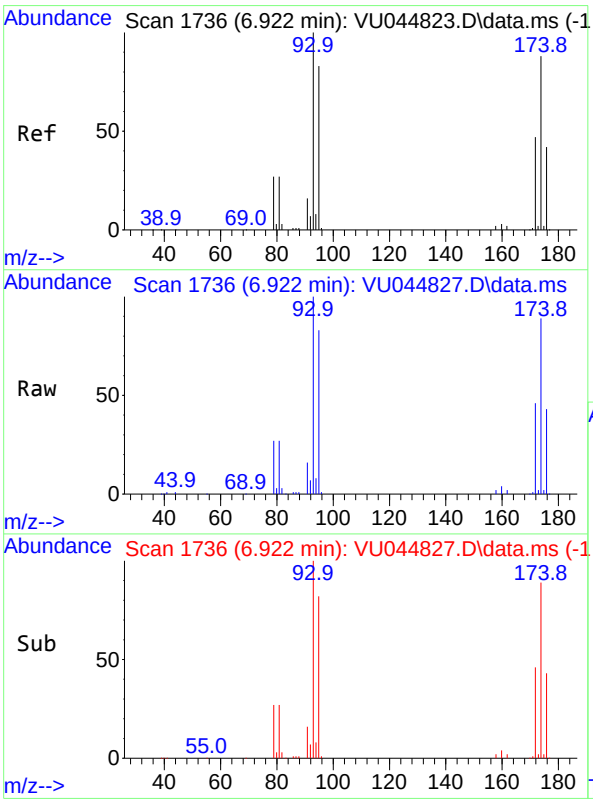


#45
1,2-Dichloropropane
Concen: 50.067 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 63 Resp: 127501

Ion	Ratio	Lower	Upper
63	100		
65	31.2	23.9	35.9

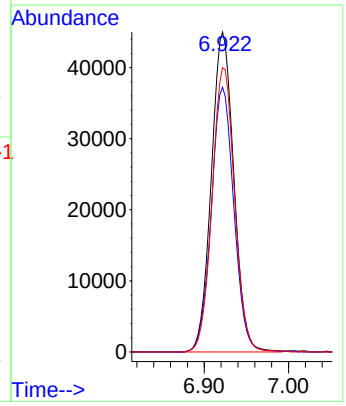




#46
Dibromomethane
Concen: 49.495 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 93 Resp: 83520

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.6	98.4
174	88.8	70.7	106.1



Instrument :
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ClientSampleId :
ICVVU092521

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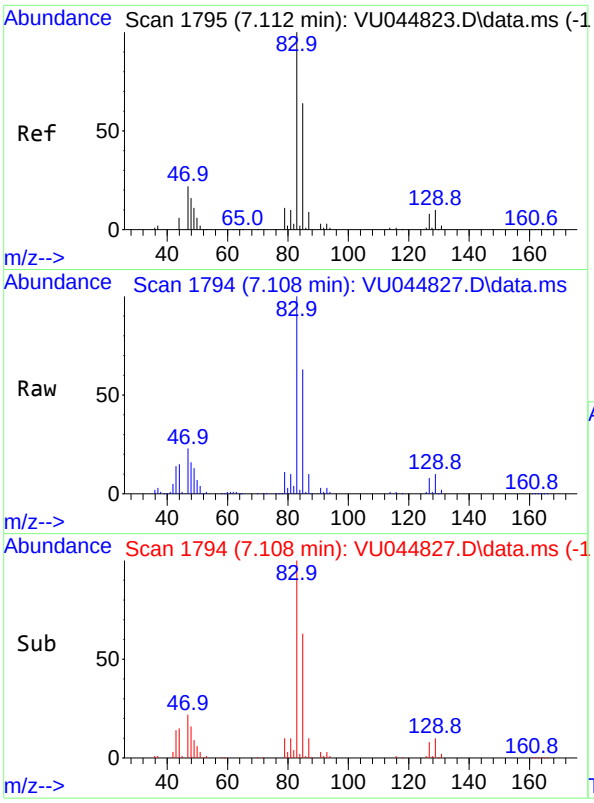
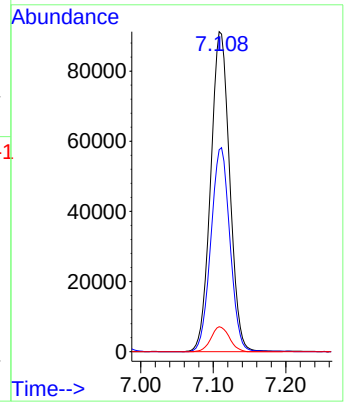
9/27/2021 11:02:52 AM

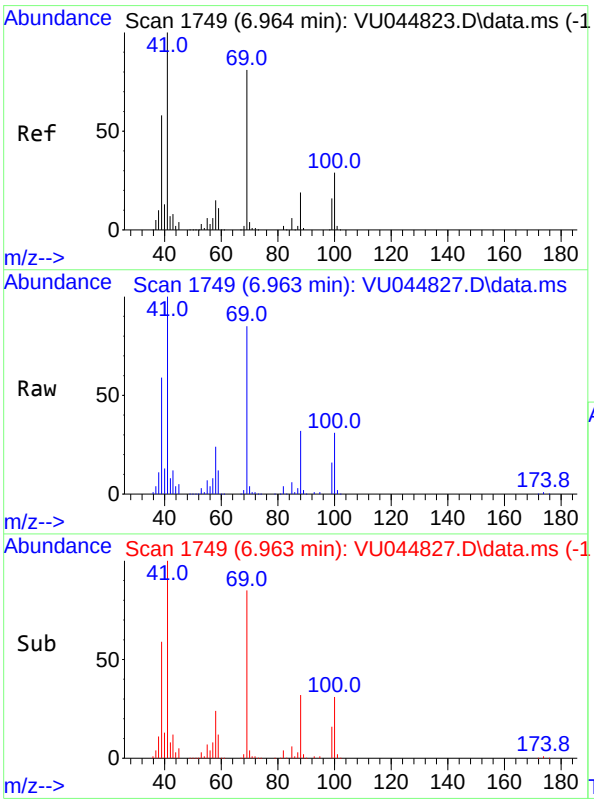


#47
Bromodichloromethane
Concen: 49.857 ug/l
RT: 7.108 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 83 Resp: 165951

Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.6	77.4
127	7.8	6.2	9.4

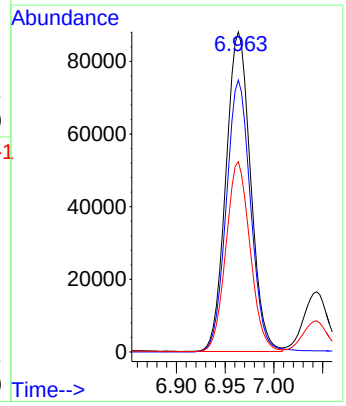




#48
Methyl methacrylate
Concen: 51.657 ug/l
RT: 6.963 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 41 Resp: 154473

Ion	Ratio	Lower	Upper
41	100		
69	85.0	65.6	98.4
39	58.4	46.2	69.4



Instrument :
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ClientSampleId :
ICVVU092521

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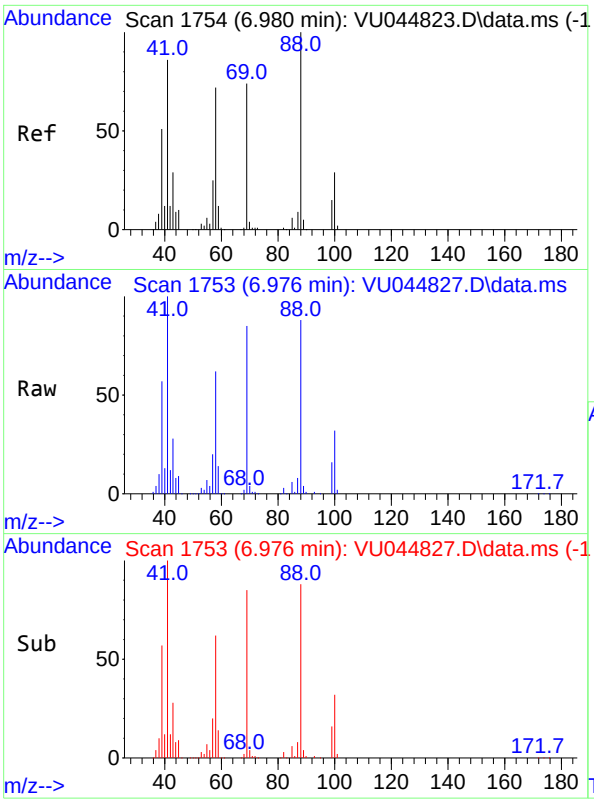
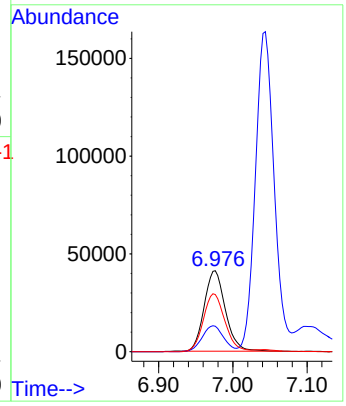
9/27/2021 11:02:52 AM

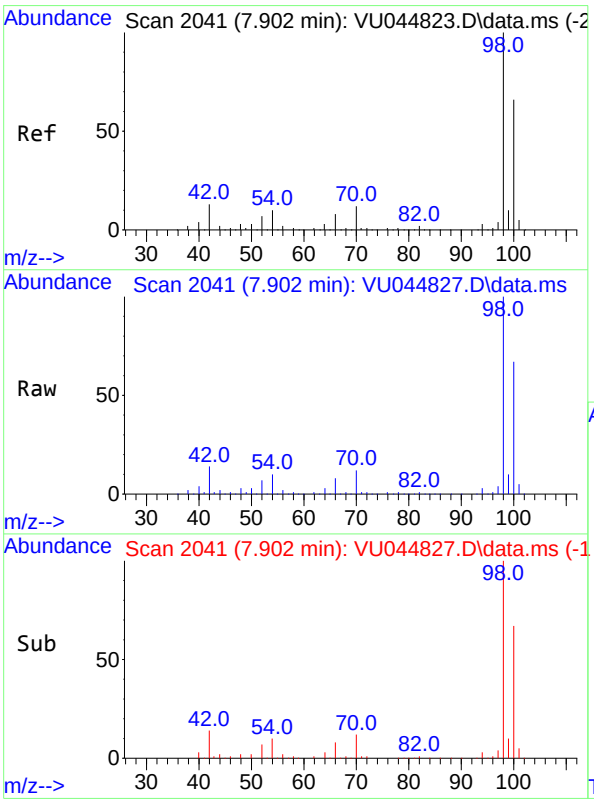


#49
1,4-Dioxane
Concen: 1066.363 ug/l
RT: 6.976 min Scan# 1753
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 88 Resp: 81498

Ion	Ratio	Lower	Upper
88	100		
43	32.9	25.8	38.6
58	73.4	61.3	91.9

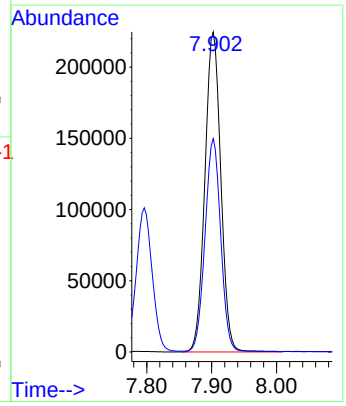




#50
Toluene-d8
Concen: 50.944 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 98 Resp: 383937

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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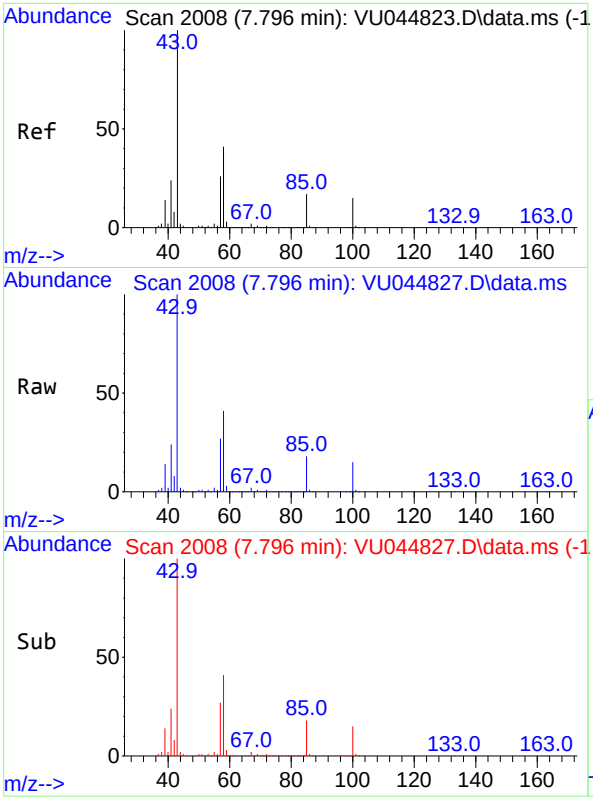
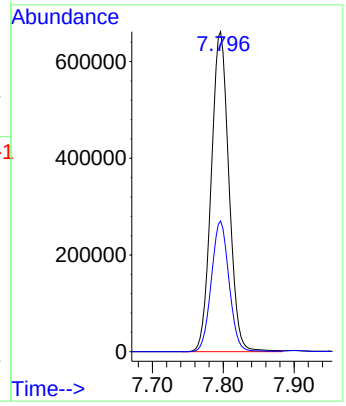
9/27/2021 11:02:52 AM

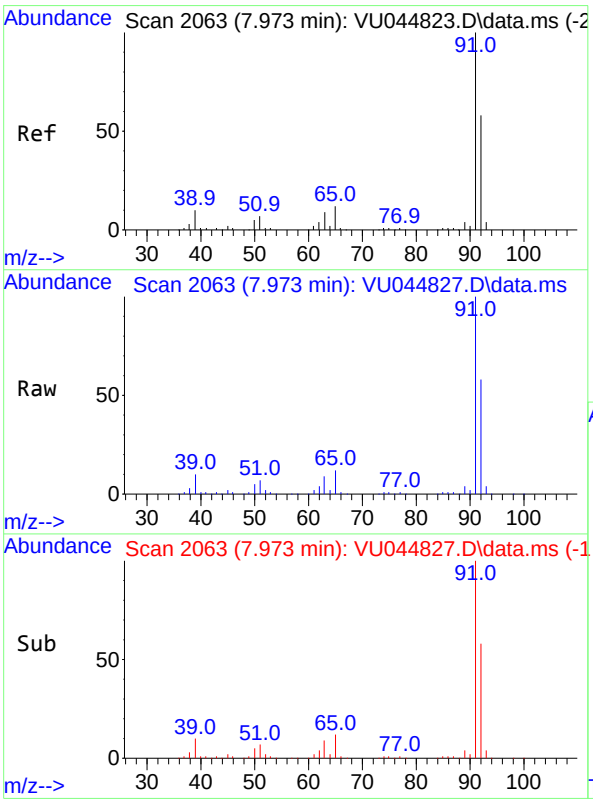


#51
4-Methyl-2-Pentanone
Concen: 253.653 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 1145337

Ion	Ratio	Lower	Upper
43	100		
58	40.9	32.4	48.6

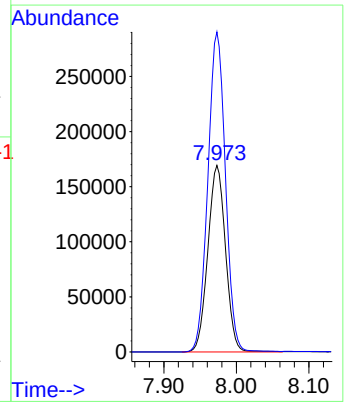




#52
Toluene
Concen: 51.017 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 92 Resp: 287006

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.9	205.3



Instrument :
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ClientSampleId :
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Manual Integrations APPROVED
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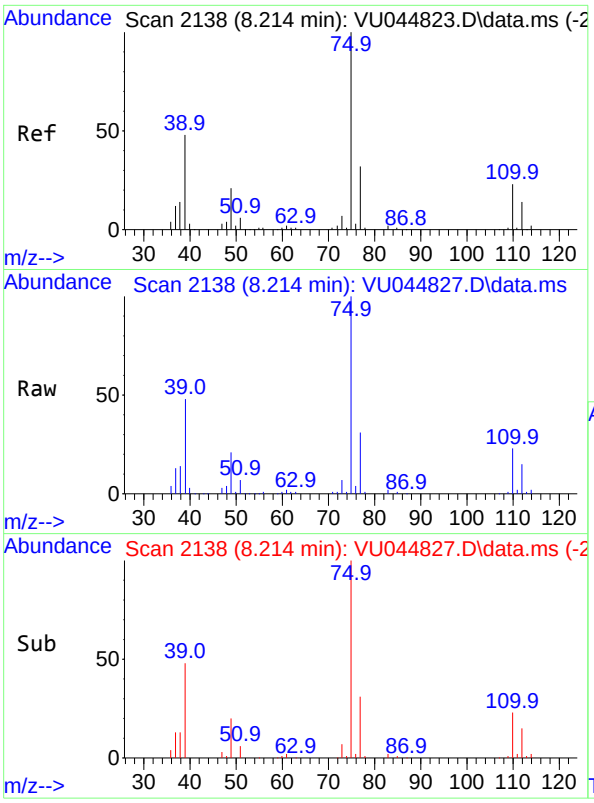
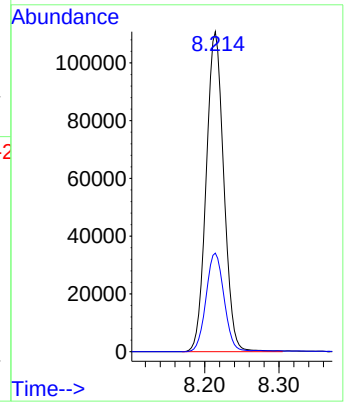
9/27/2021 11:02:52 AM

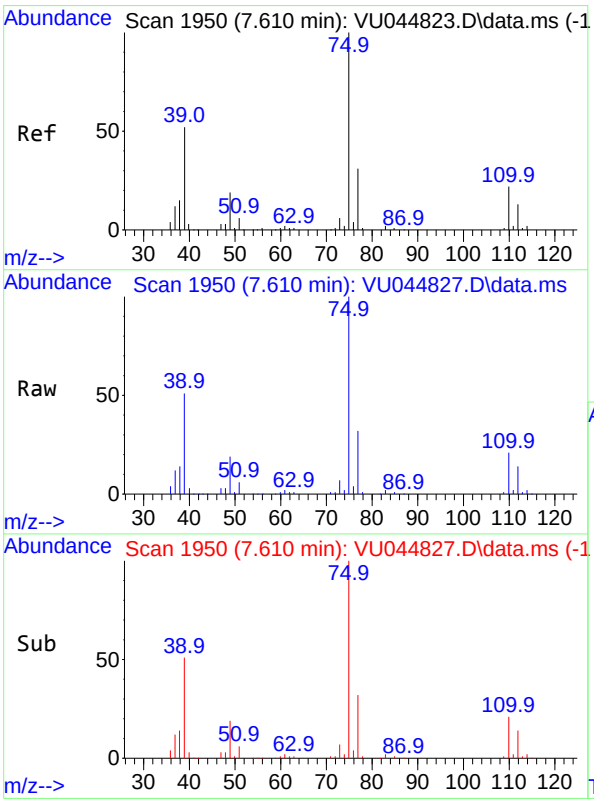


#53
t-1,3-Dichloropropene
Concen: 52.444 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 75 Resp: 181864

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.6	38.4

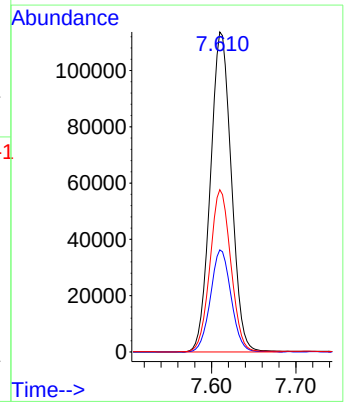




#54
cis-1,3-Dichloropropene
Concen: 52.219 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 75 Resp: 196109

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6
39	50.6	41.4	62.2



Instrument :
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ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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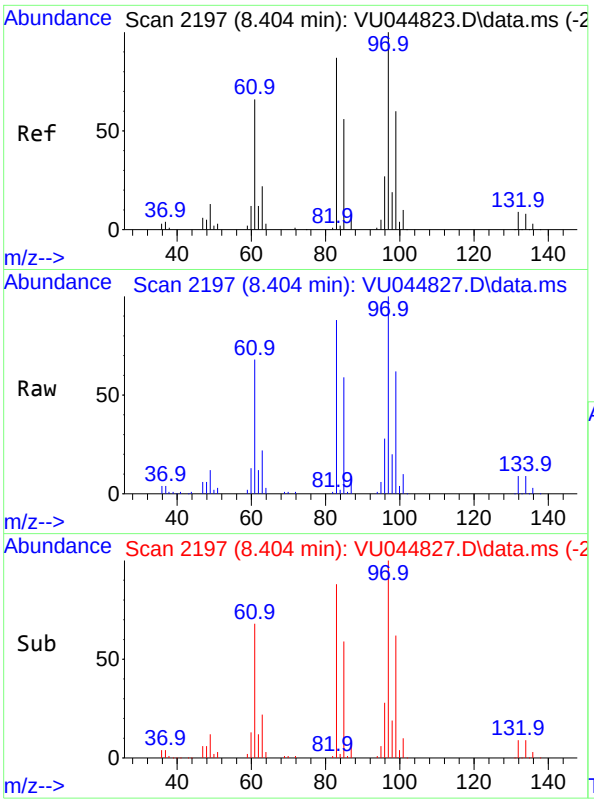
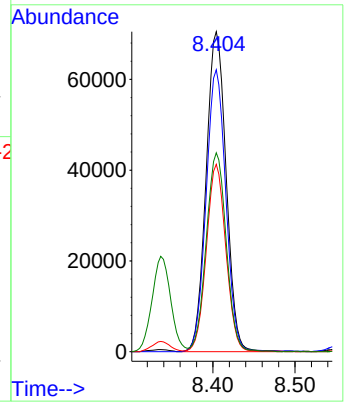
9/27/2021 11:02:52 AM

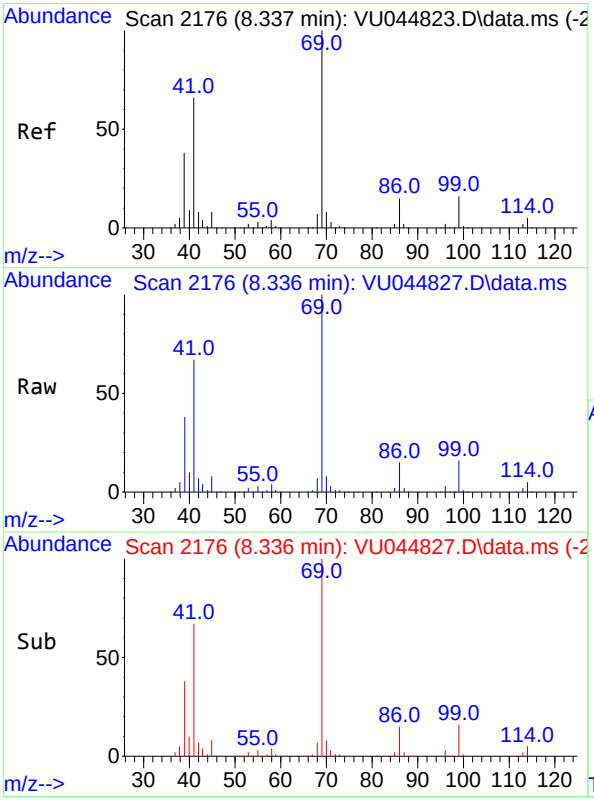


#55
1,1,2-Trichloroethane
Concen: 49.883 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 97 Resp: 119980

Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.7	104.5
85	58.4	44.8	67.2
99	62.2	49.3	73.9

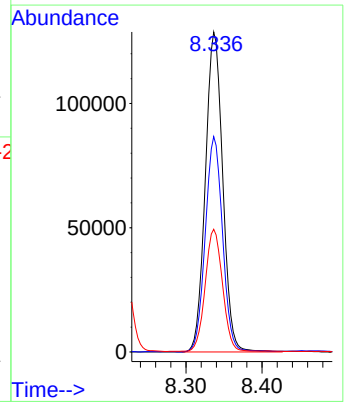




#56
Ethyl methacrylate
Concen: 47.810 ug/l
RT: 8.336 min Scan# 2176
Delta R.T. -0.001 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 69 Resp: 204469

Ion	Ratio	Lower	Upper
69	100		
41	67.3	53.5	80.3
39	38.0	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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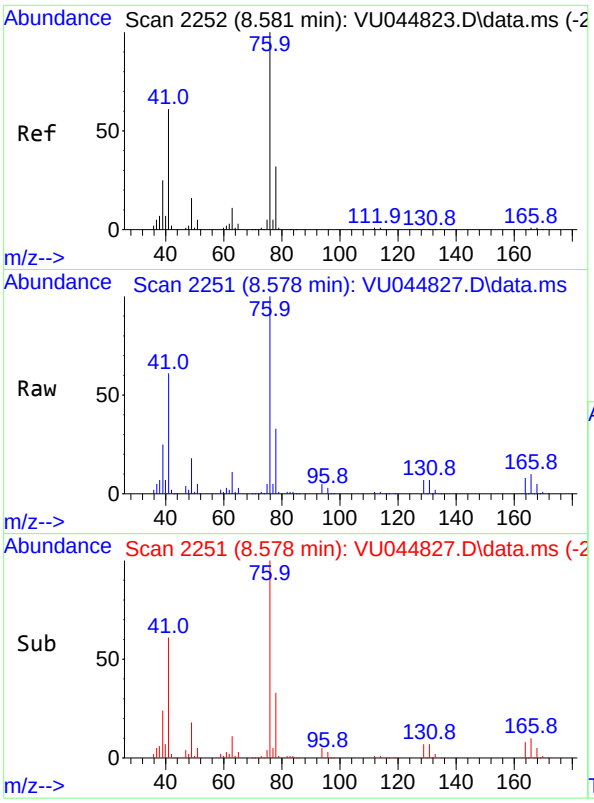
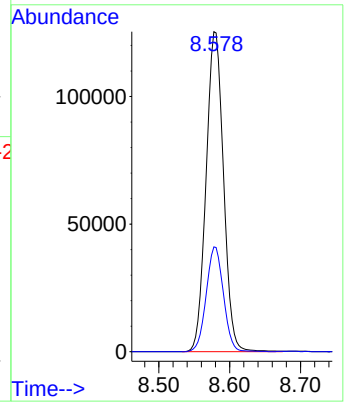
9/27/2021 11:02:52 AM

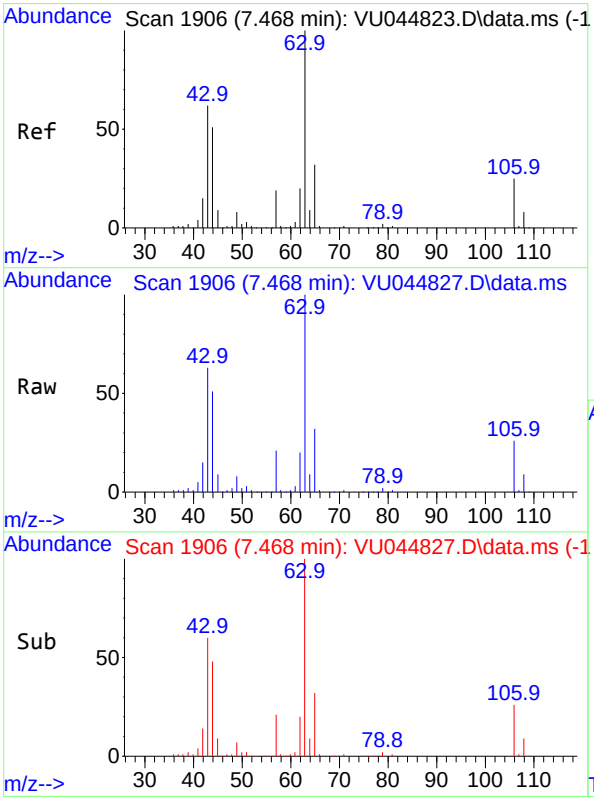


#57
1,3-Dichloropropane
Concen: 49.947 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 76 Resp: 213918

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.7	38.5

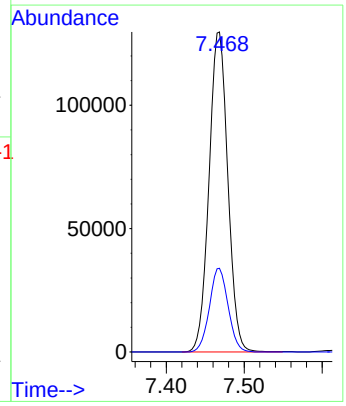




#58
2-Chloroethyl Vinyl ether
Concen: 214.122 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 63 Resp: 216897

Ion	Ratio	Lower	Upper
63	100		
106	26.0	20.5	30.7



Instrument :
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ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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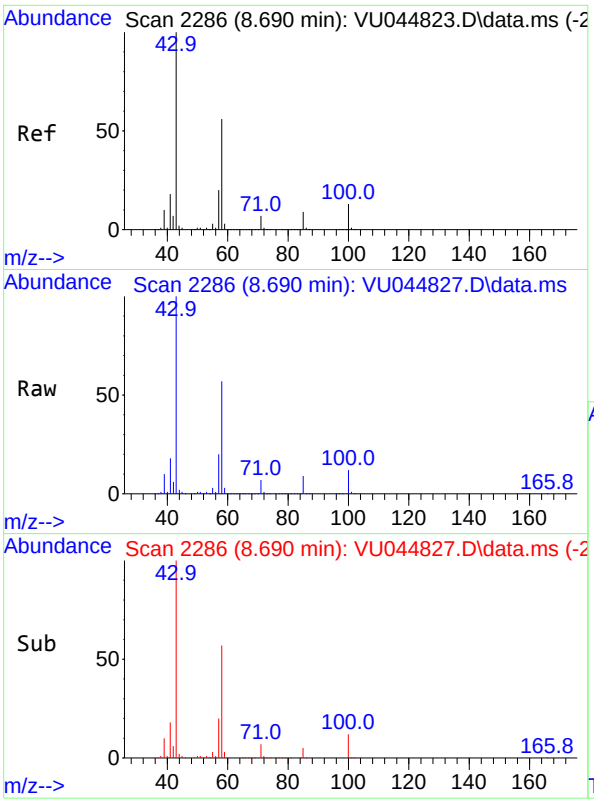
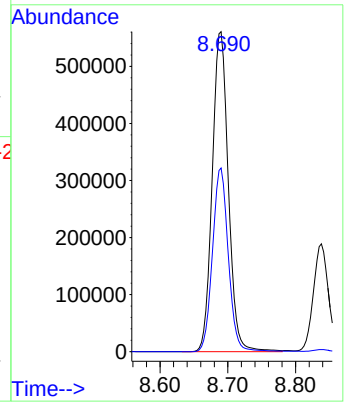
9/27/2021 11:02:52 AM

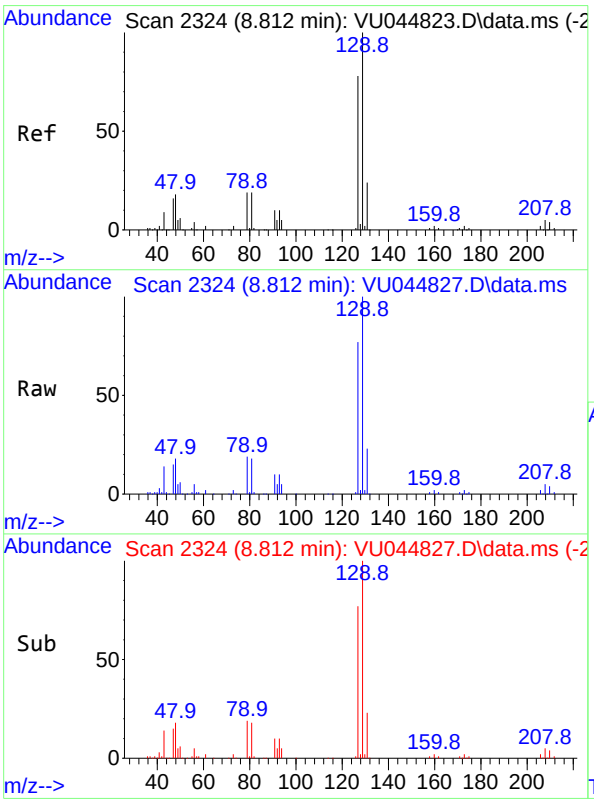


#59
2-Hexanone
Concen: 255.392 ug/l
RT: 8.690 min Scan# 2286
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 925649

Ion	Ratio	Lower	Upper
43	100		
58	56.6	28.0	84.0

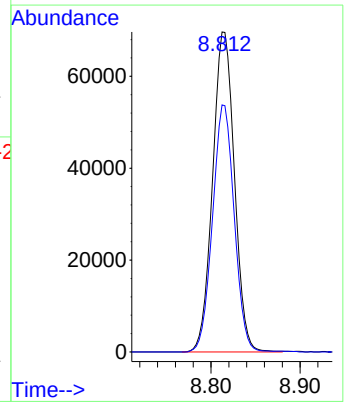




#60
Dibromochloromethane
Concen: 51.462 ug/l
RT: 8.812 min Scan# 2324
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:129 Resp: 118530

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	117.0



Instrument :
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ClientSampleId :
ICVVU092521

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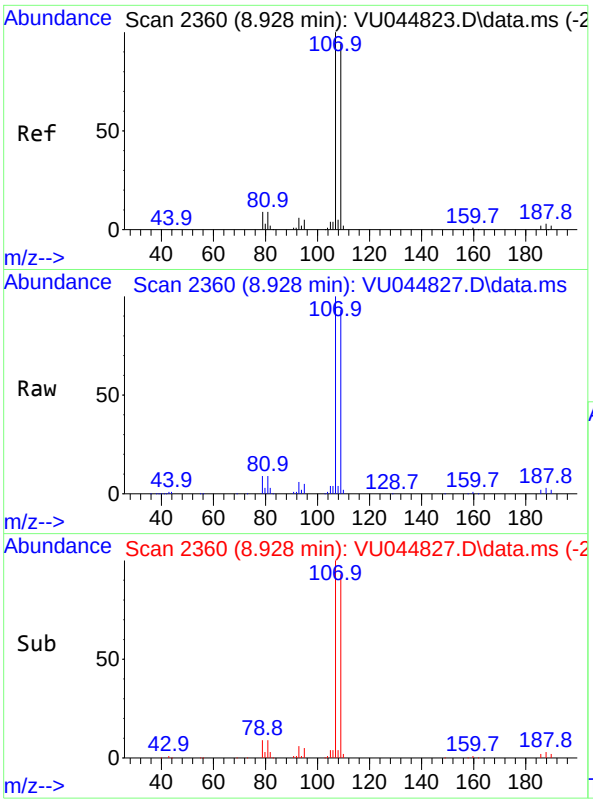
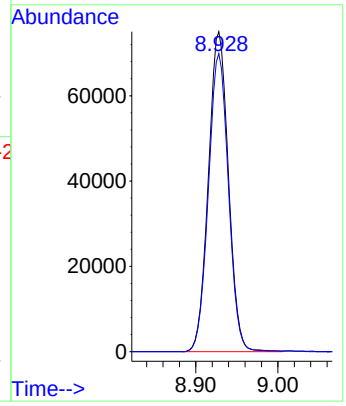
9/27/2021 11:02:52 AM

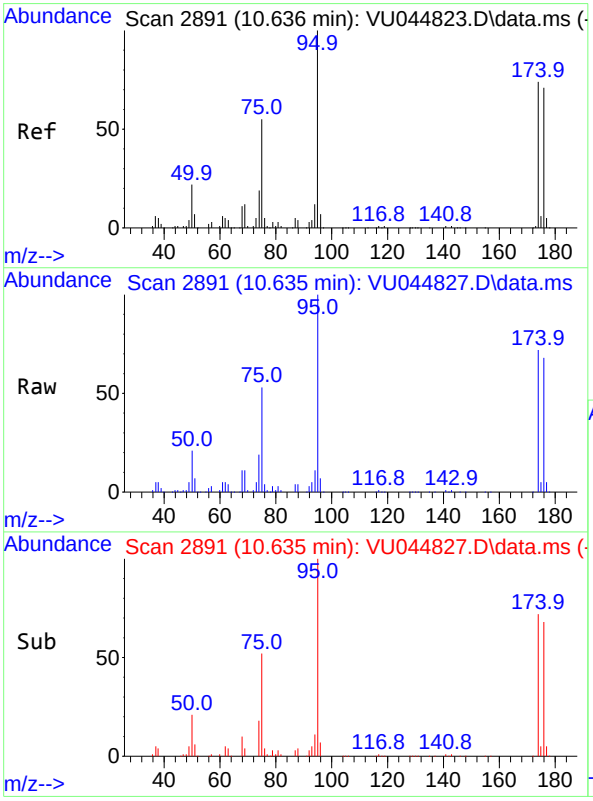


#61
1,2-Dibromoethane
Concen: 50.325 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:107 Resp: 127096

Ion	Ratio	Lower	Upper
107	100		
109	93.1	74.8	112.2

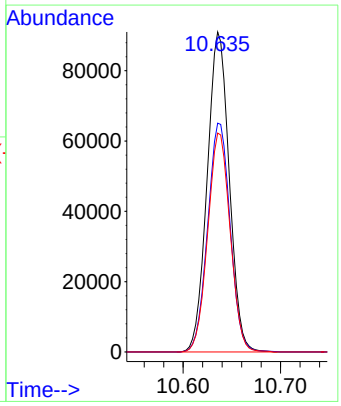




#62
4-Bromofluorobenzene
Concen: 51.084 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 95 Resp: 142996

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	146.6
176	69.4	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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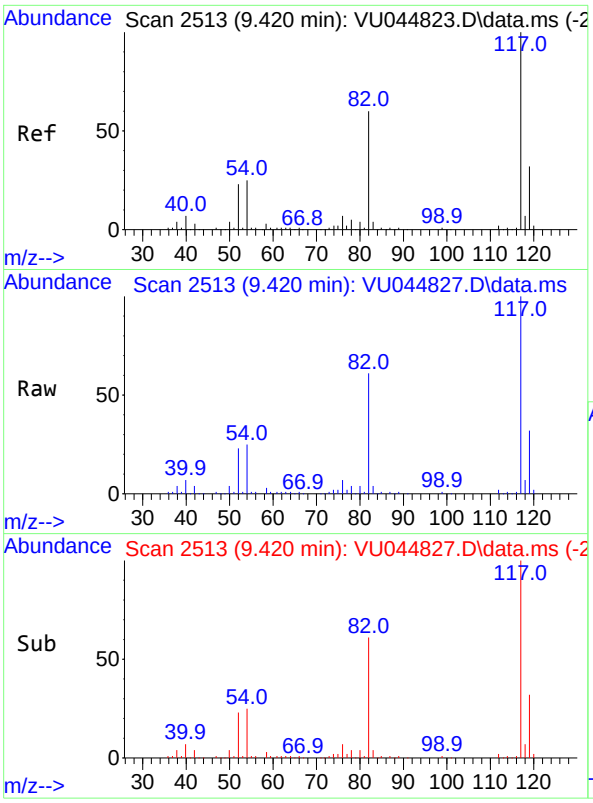
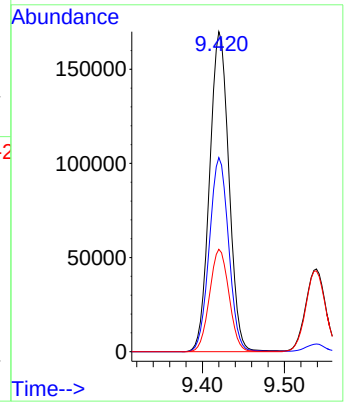
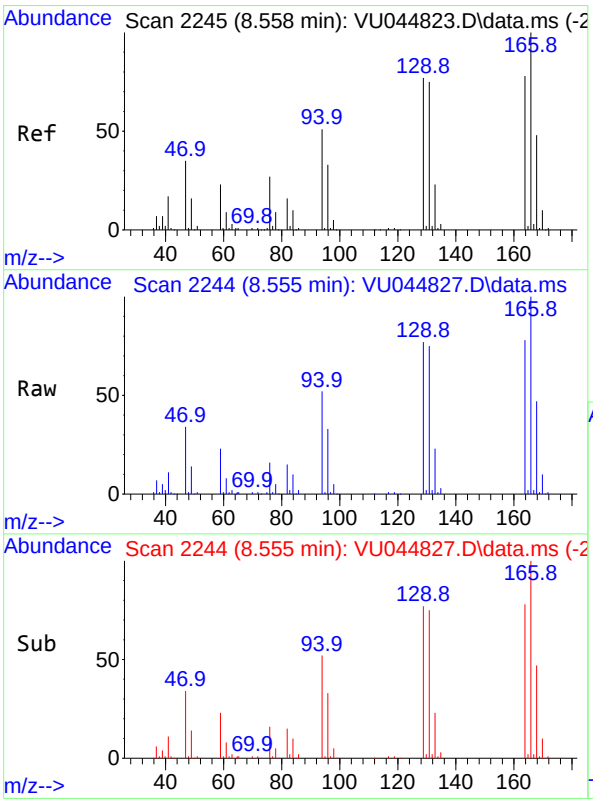


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:117 Resp: 278016

Ion	Ratio	Lower	Upper
117	100		
82	60.6	47.8	71.8
119	32.0	25.8	38.6

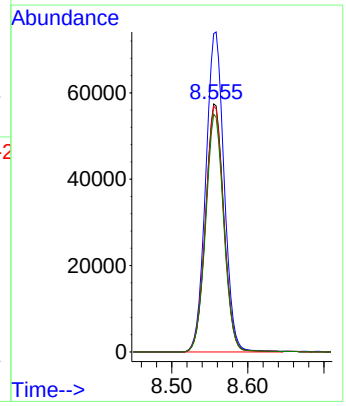




#64
Tetrachloroethene
Concen: 50.921 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:164 Resp: 95959

Ion	Ratio	Lower	Upper
164	100		
166	128.4	102.8	154.2
129	99.1	79.4	119.2
131	95.9	77.4	116.2



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ClientSampleId :
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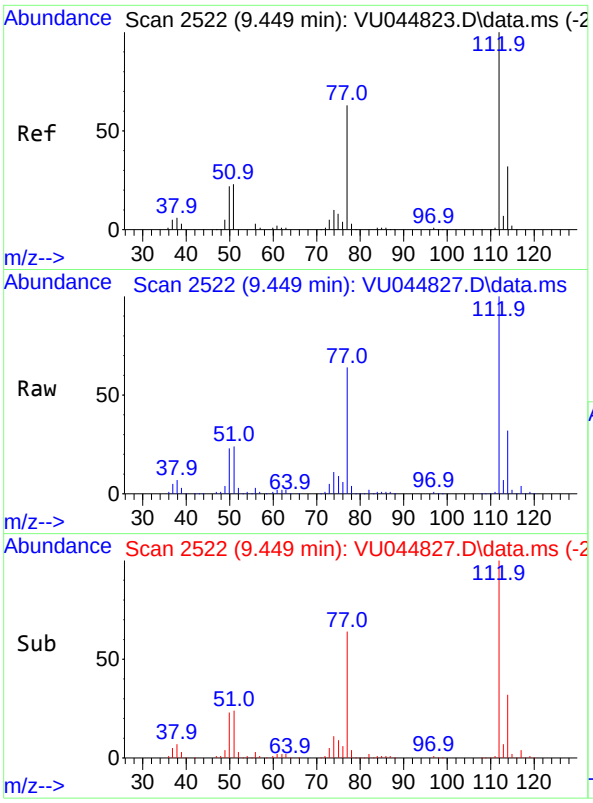
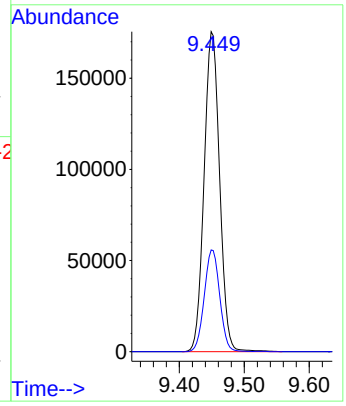
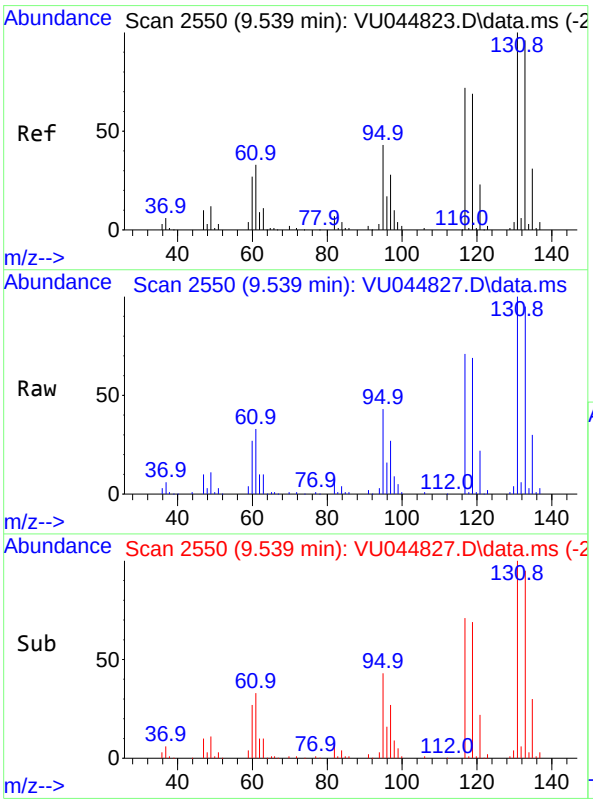


#65
Chlorobenzene
Concen: 50.586 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:112 Resp: 291956

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.9	38.9

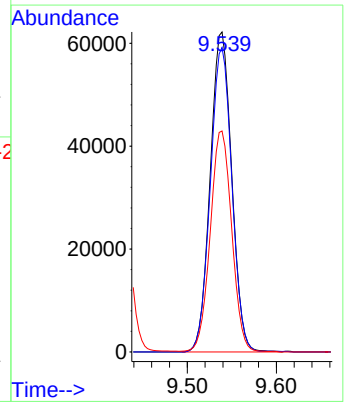




#66
1,1,1,2-Tetrachloroethane
Concen: 50.519 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:131 Resp: 103997

Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.1	144.3
119	68.8	34.1	102.3



Instrument :
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ClientSampleId :
ICVVU092521

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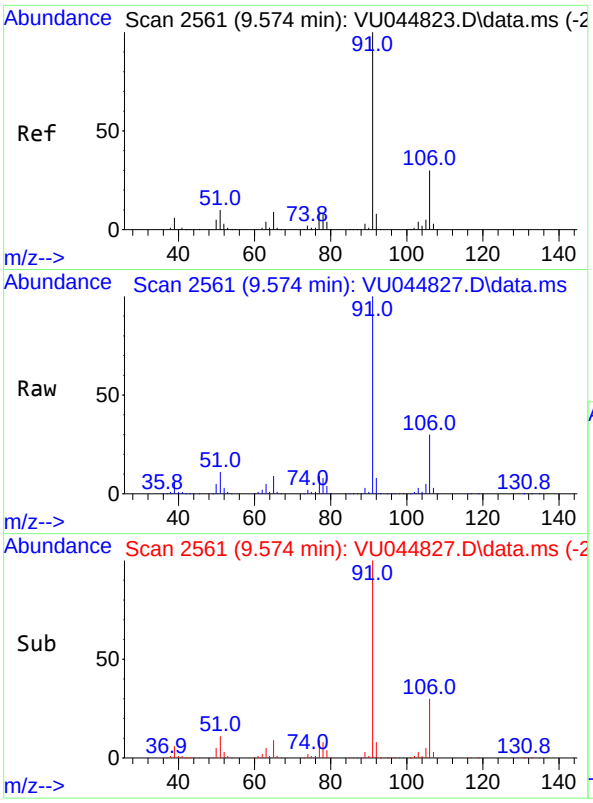
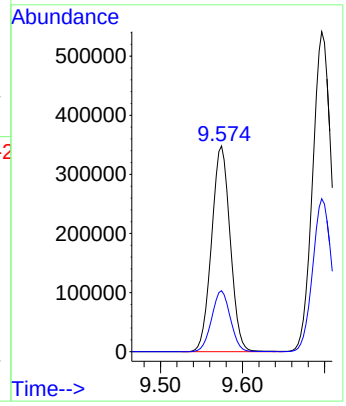
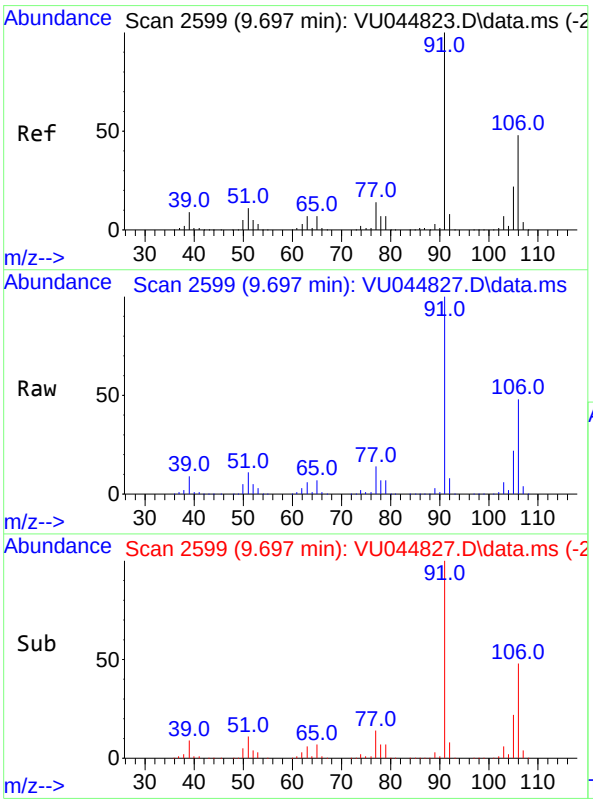


#67
Ethyl Benzene
Concen: 53.191 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 91 Resp: 547944

Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.3	36.5

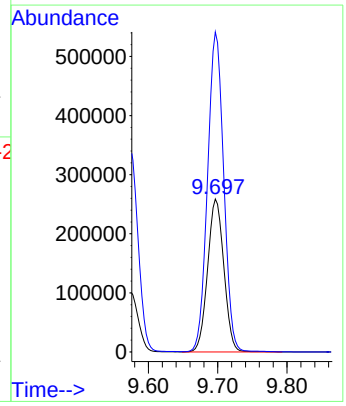




#68
m/p-Xylenes
Concen: 106.681 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:106 Resp: 420323

Ion	Ratio	Lower	Upper
106	100		
91	208.1	164.2	246.2



Instrument :
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ClientSampleId :
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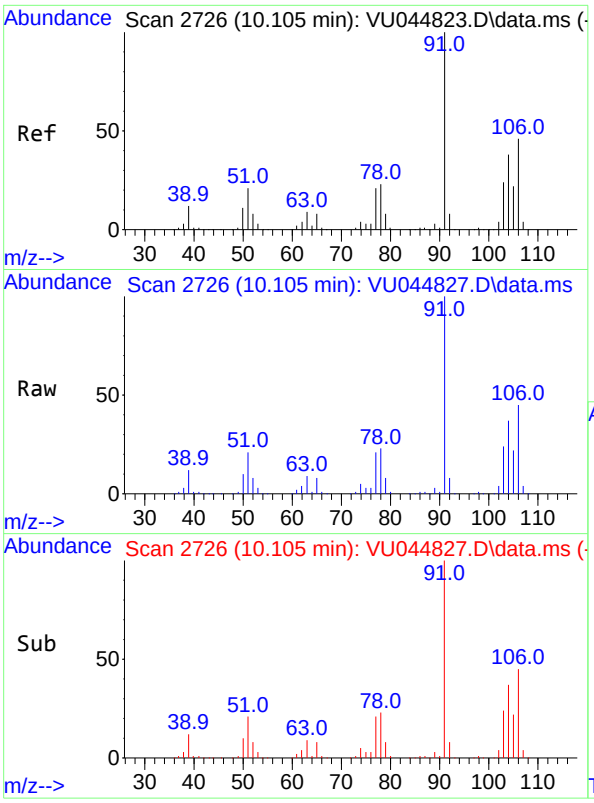
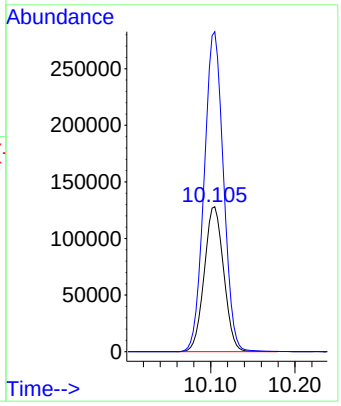
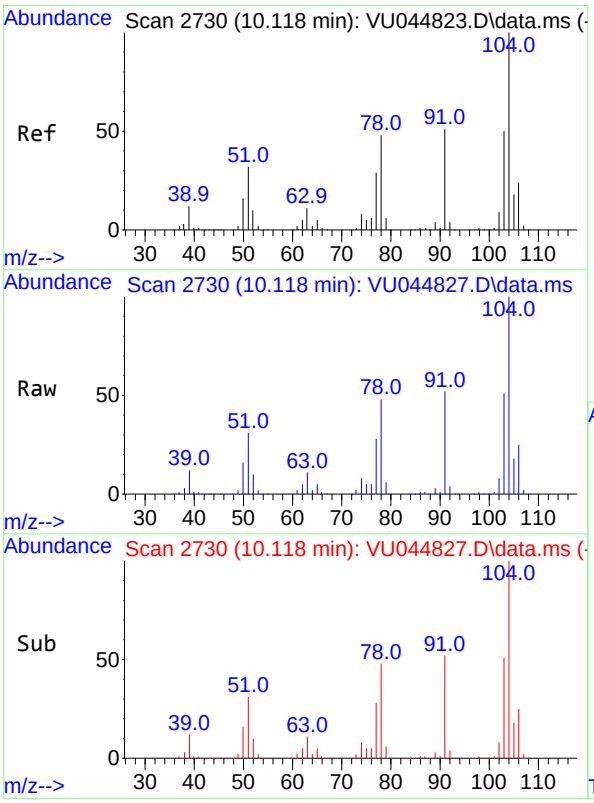


#69
o-Xylene
Concen: 54.081 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:106 Resp: 206039

Ion	Ratio	Lower	Upper
106	100		
91	218.8	108.9	326.7

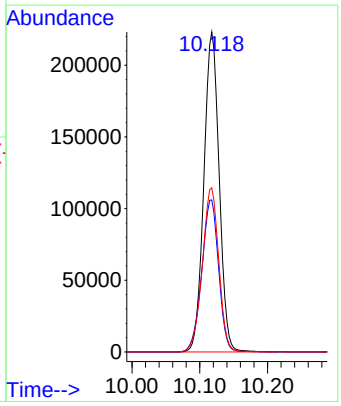




#70
Styrene
Concen: 49.253 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:104 Resp: 350610

Ion	Ratio	Lower	Upper
104	100		
78	52.2	41.4	62.0
103	55.1	43.5	65.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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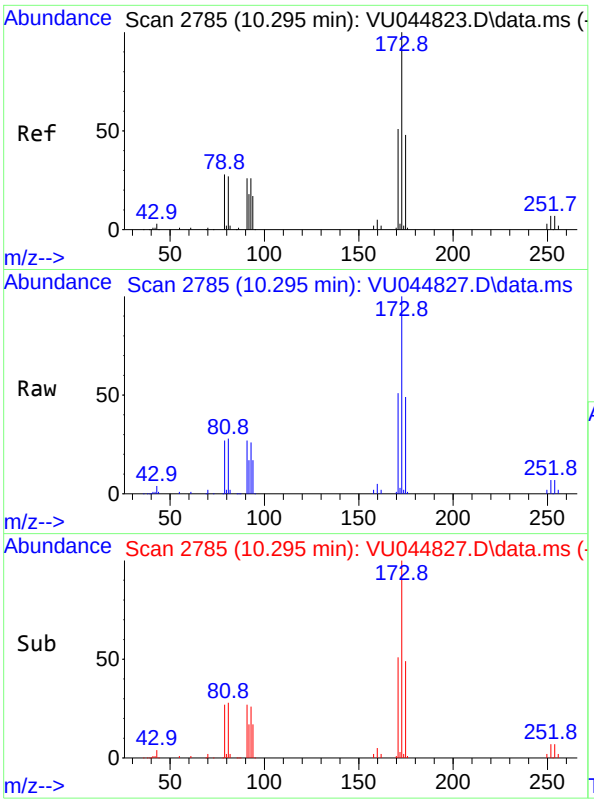
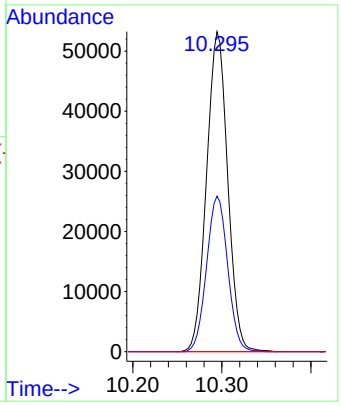
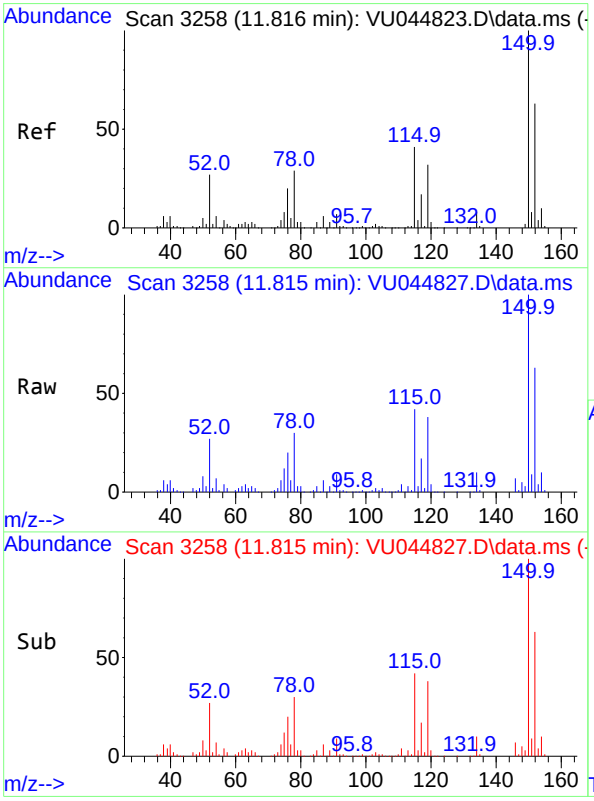


#71
Bromoform
Concen: 51.476 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:173 Resp: 87679

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	73.0
254	0.0	0.0	0.0

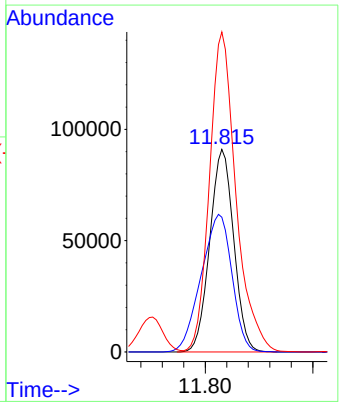




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:152 Resp: 140852

Ion	Ratio	Lower	Upper
152	100		
115	87.1	43.5	130.7
150	174.3	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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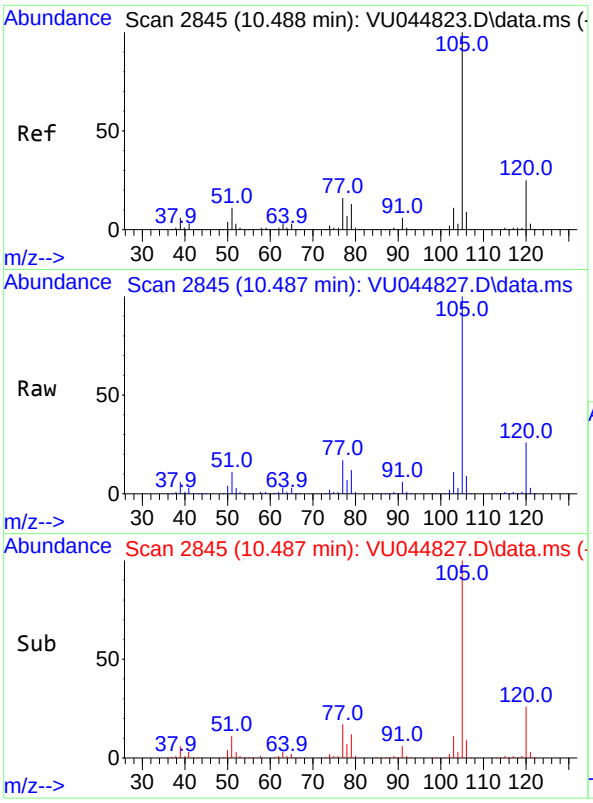
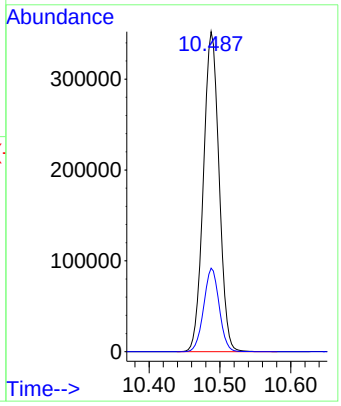
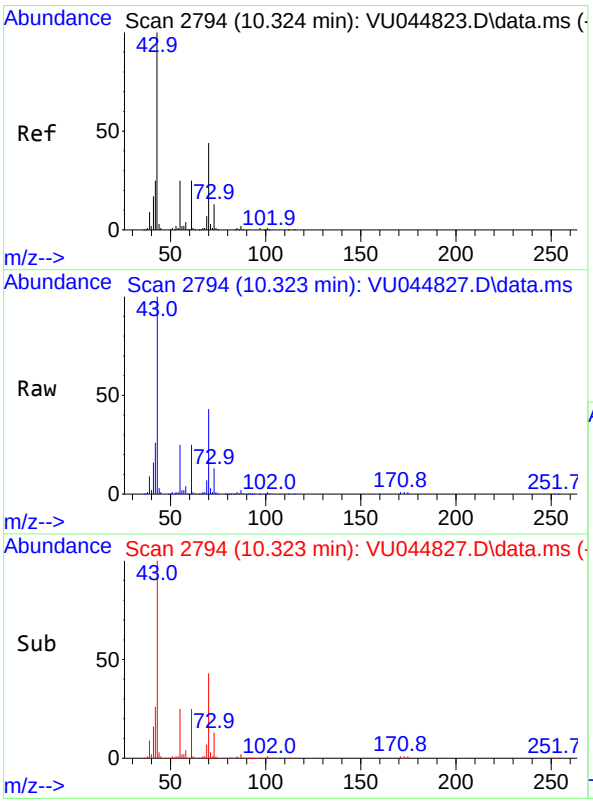


#73
Isopropylbenzene
Concen: 54.063 ug/l
RT: 10.487 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:105 Resp: 540469

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.3

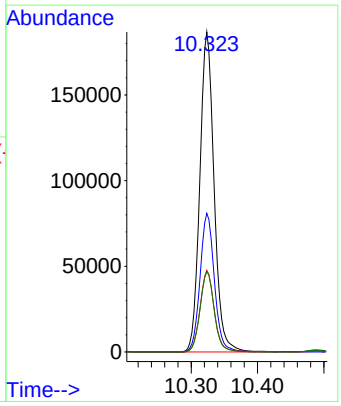




#74
N-amyl acetate
Concen: 54.844 ug/l
RT: 10.323 min Scan# 2794
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 43 Resp: 279453

Ion	Ratio	Lower	Upper
43	100		
70	43.5	35.1	52.7
55	25.4	20.5	30.7
61	24.8	19.6	29.4



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ClientSampleId :
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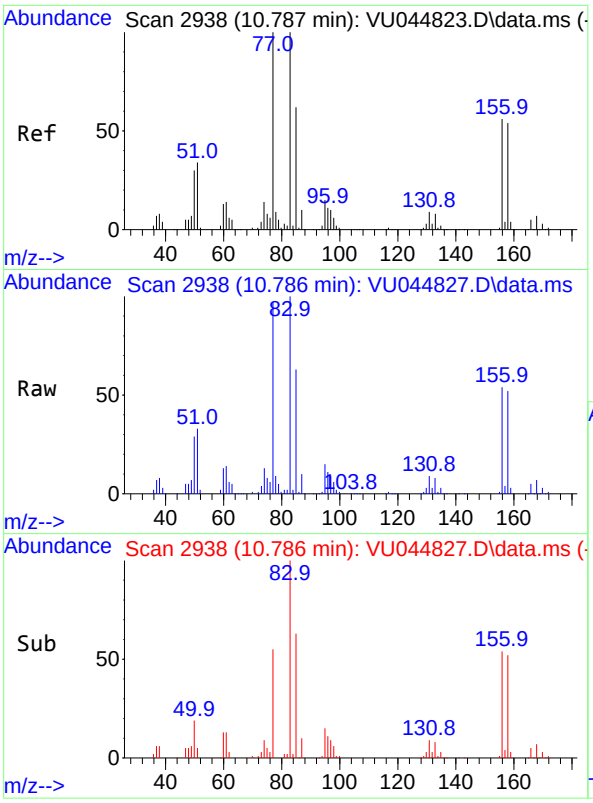
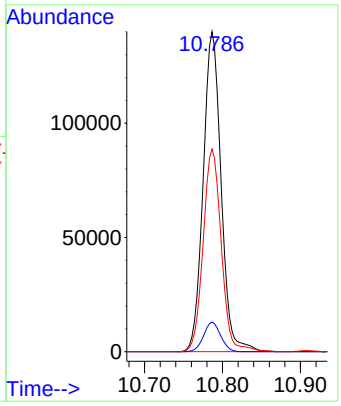
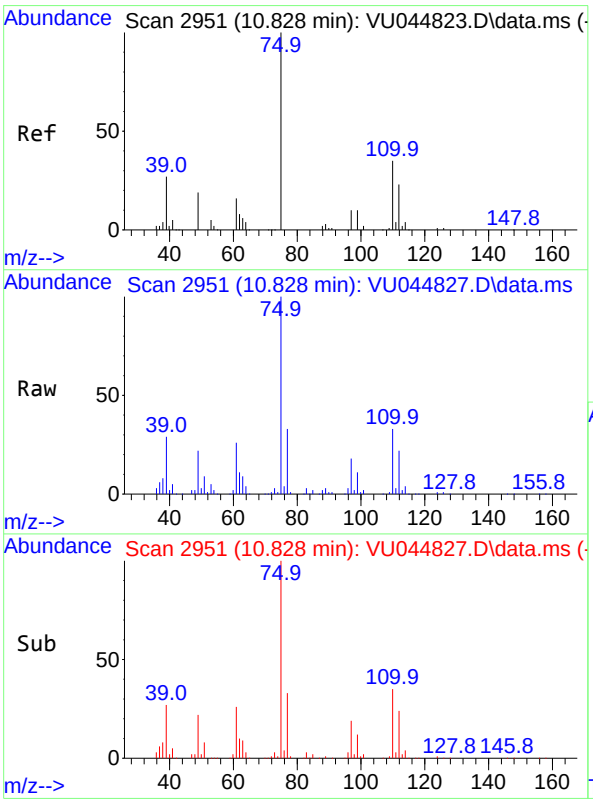


#75
1,1,2,2-Tetrachloroethane
Concen: 49.208 ug/l
RT: 10.786 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 83 Resp: 224114

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.3	13.1
85	63.9	31.9	95.5

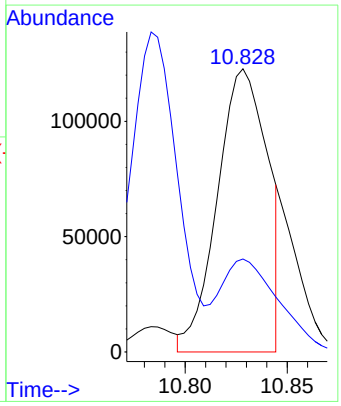




#76
1,2,3-Trichloropropane
Concen: 49.159 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 75 Resp: 209675

Ion	Ratio	Lower	Upper
75	100		
77	37.4	17.9	53.7



Instrument :
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ClientSampleId :
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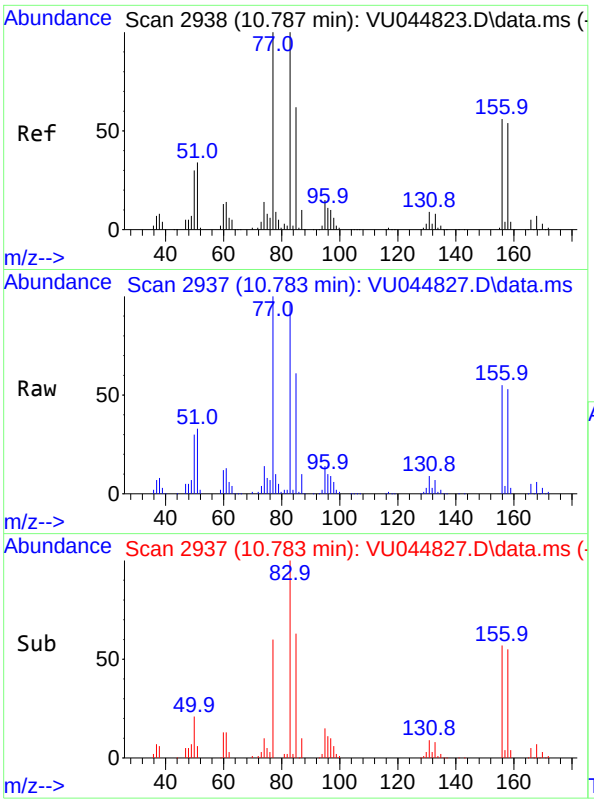
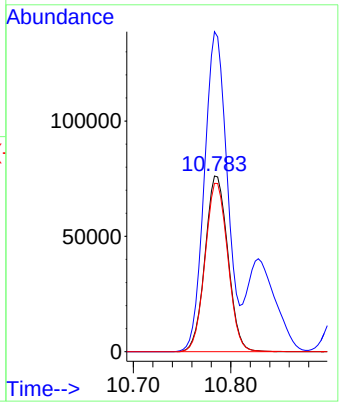
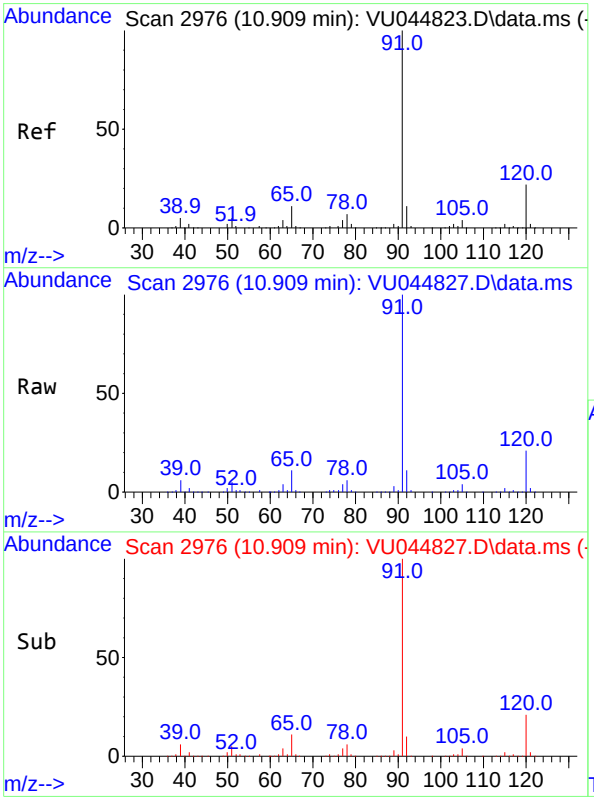


#77
Bromobenzene
Concen: 51.817 ug/l
RT: 10.783 min Scan# 2937
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:156 Resp: 123759

Ion	Ratio	Lower	Upper
156	100		
77	181.7	91.1	273.4
158	95.7	48.2	144.6

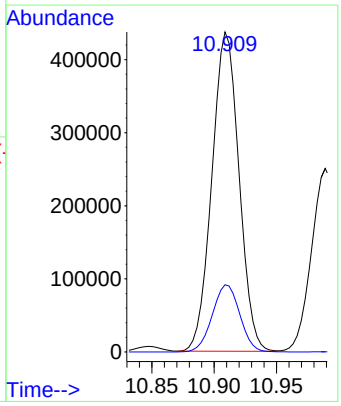




#78
n-propylbenzene
Concen: 54.594 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 91 Resp: 661327

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.8	32.4



Instrument :
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ClientSampleId :
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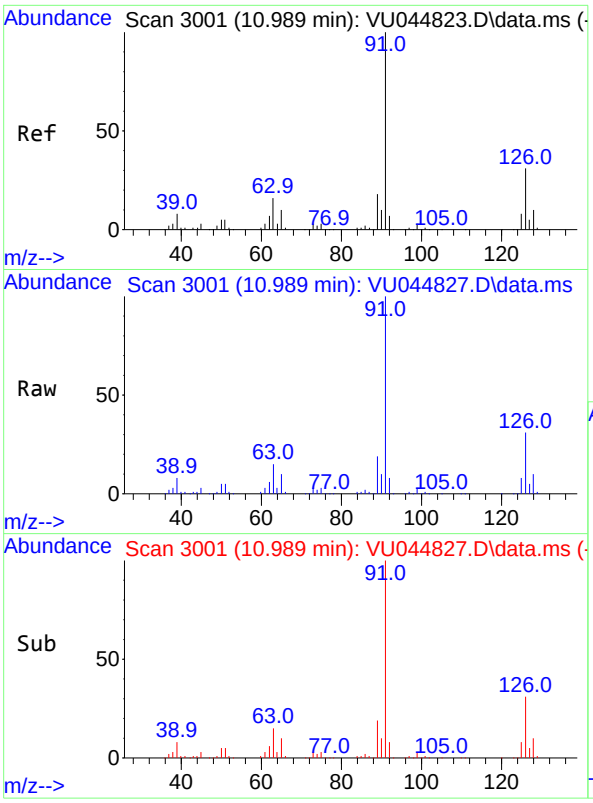
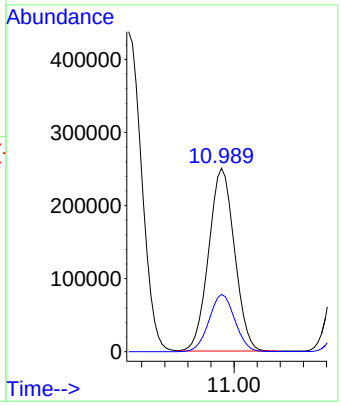
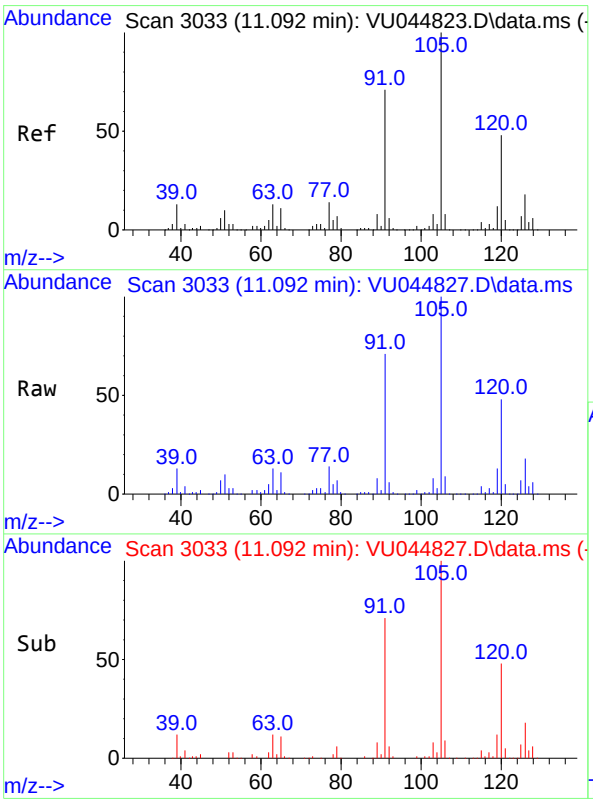


#79
2-Chlorotoluene
Concen: 52.597 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 91 Resp: 388304

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.7	47.0

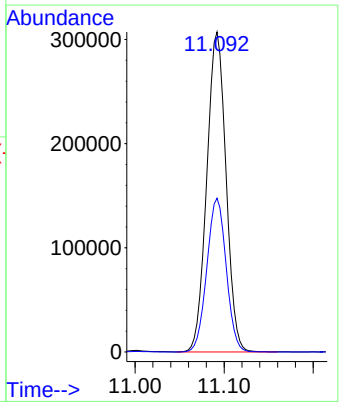




#80
1,3,5-Trimethylbenzene
Concen: 54.377 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:105 Resp: 460464

Ion	Ratio	Lower	Upper
105	100		
120	48.3	24.1	72.2



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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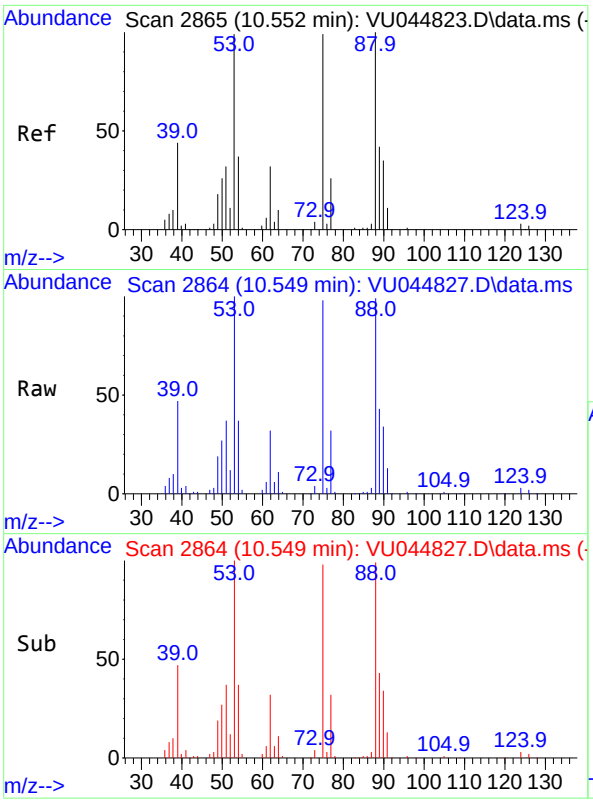
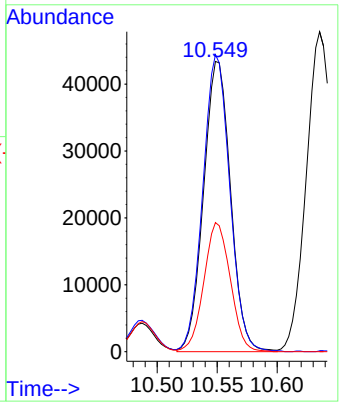
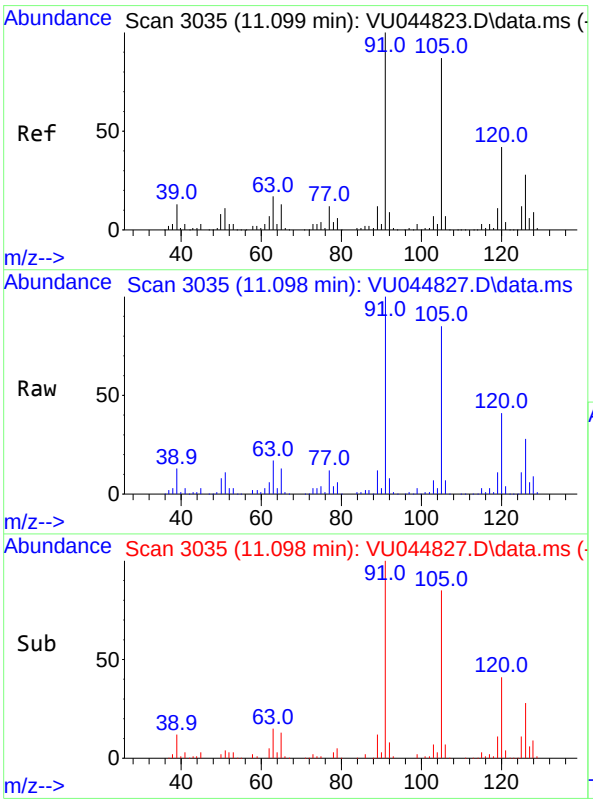


#81
trans-1,4-Dichloro-2-butene
Concen: 51.739 ug/l
RT: 10.549 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 75 Resp: 68122

Ion	Ratio	Lower	Upper
75	100		
53	102.0	82.0	123.0
89	43.5	34.2	51.4

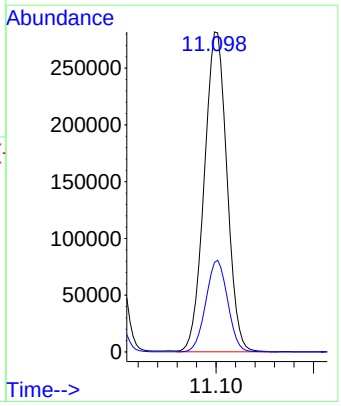




#82
4-Chlorotoluene
Concen: 53.967 ug/l
RT: 11.098 min Scan# 3035
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 91 Resp: 453596

Ion	Ratio	Lower	Upper
91	100		
126	27.6	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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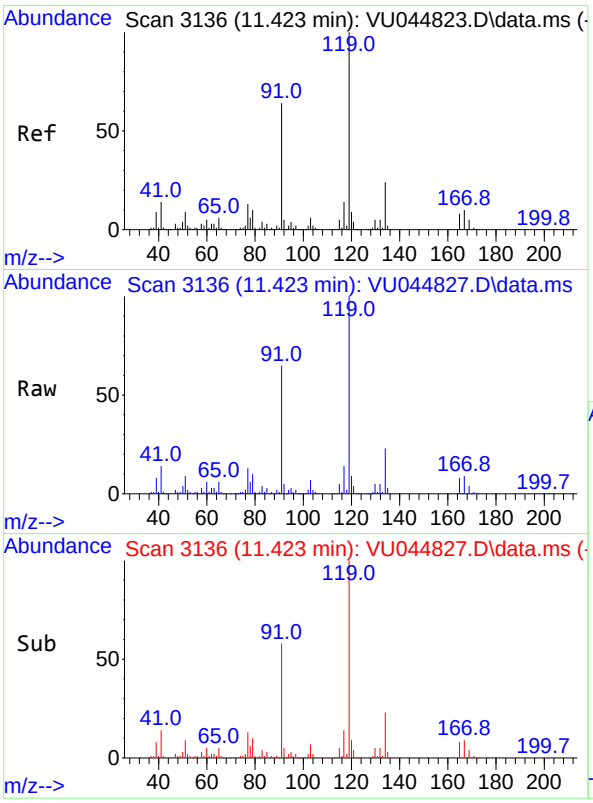
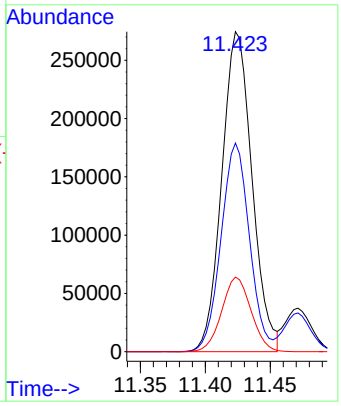
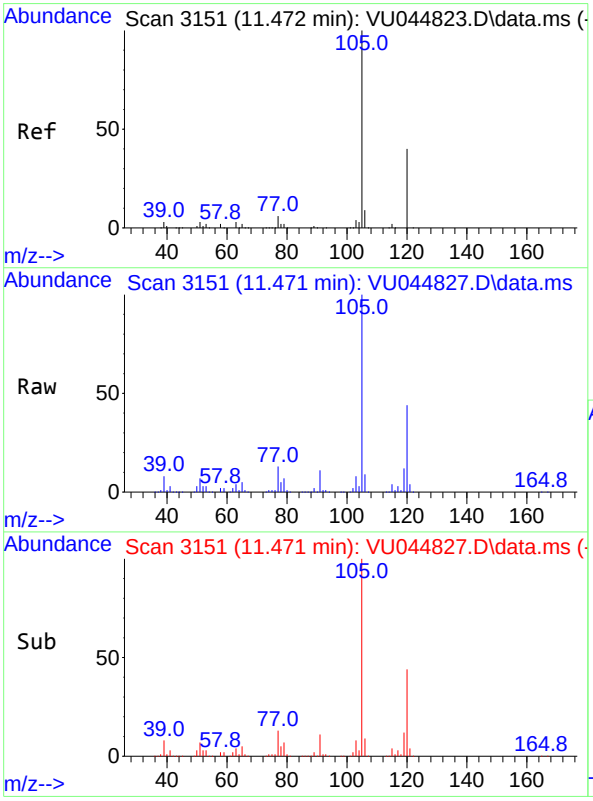


#83
tert-Butylbenzene
Concen: 54.439 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:119 Resp: 444707

Ion	Ratio	Lower	Upper
119	100		
91	61.4	30.4	91.2
134	22.6	11.5	34.5

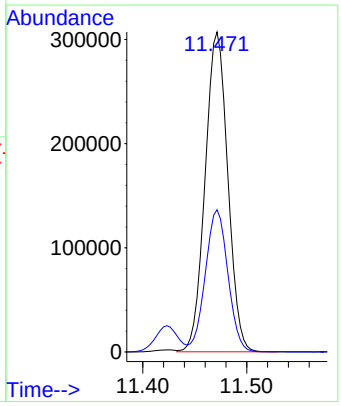




#84
1,2,4-Trimethylbenzene
Concen: 55.618 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:105 Resp: 464317

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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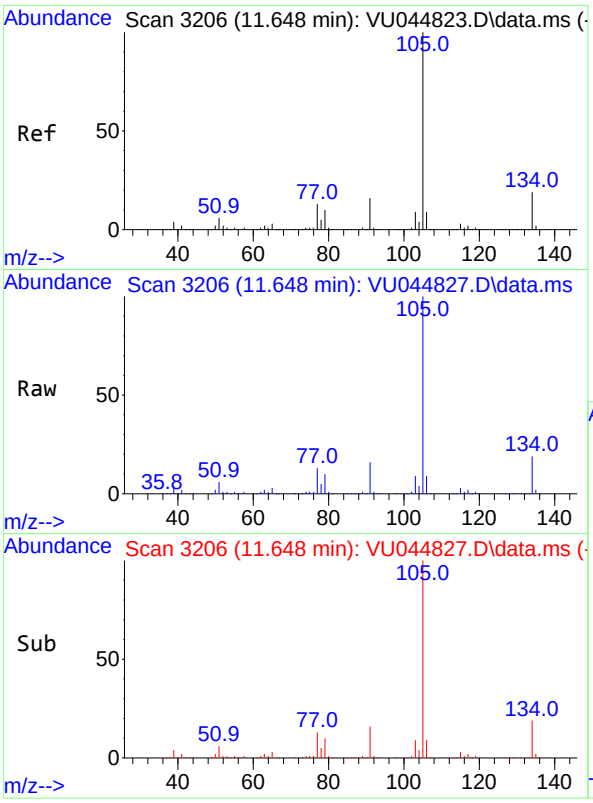
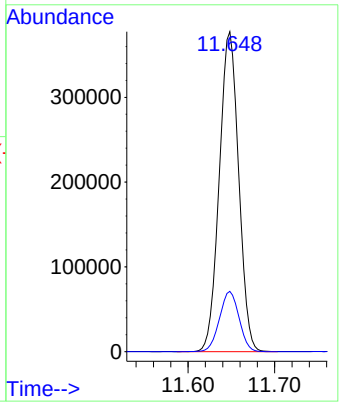
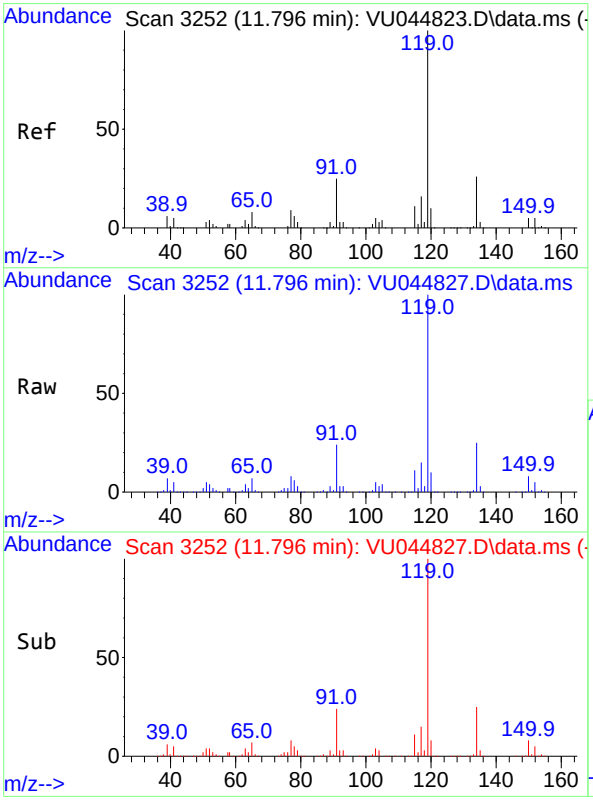


#85
sec-Butylbenzene
Concen: 55.529 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:105 Resp: 586570

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.3	28.0

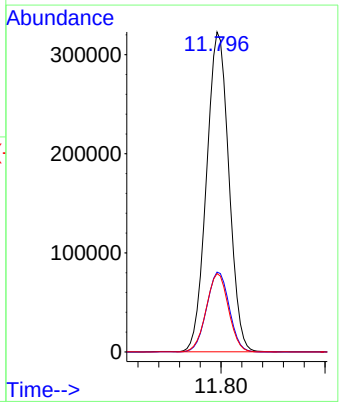




#86
p-Isopropyltoluene
Concen: 56.045 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:119 Resp: 481622

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.8	38.3
91	24.5	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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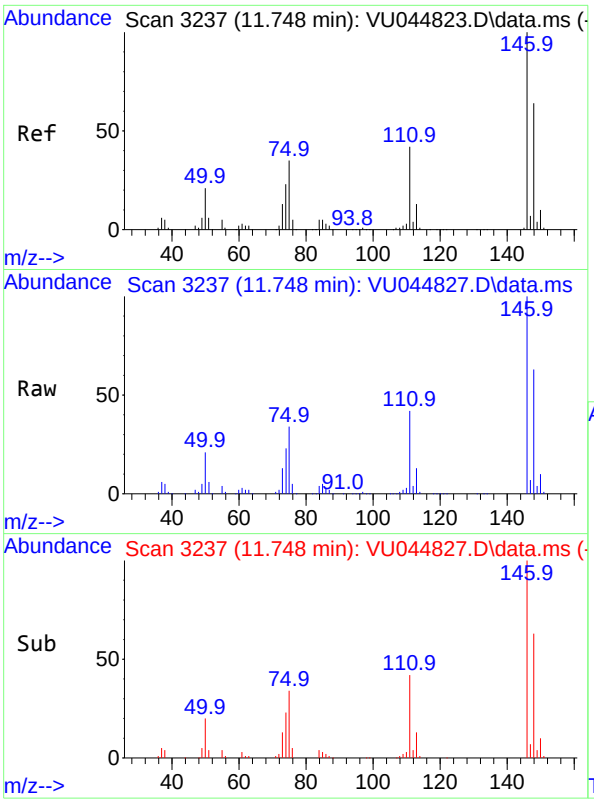
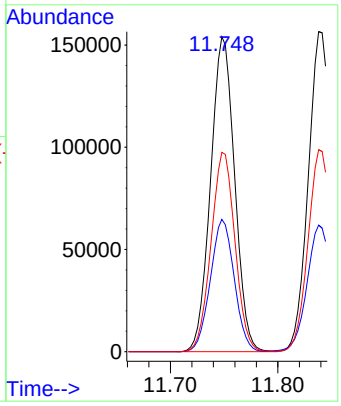
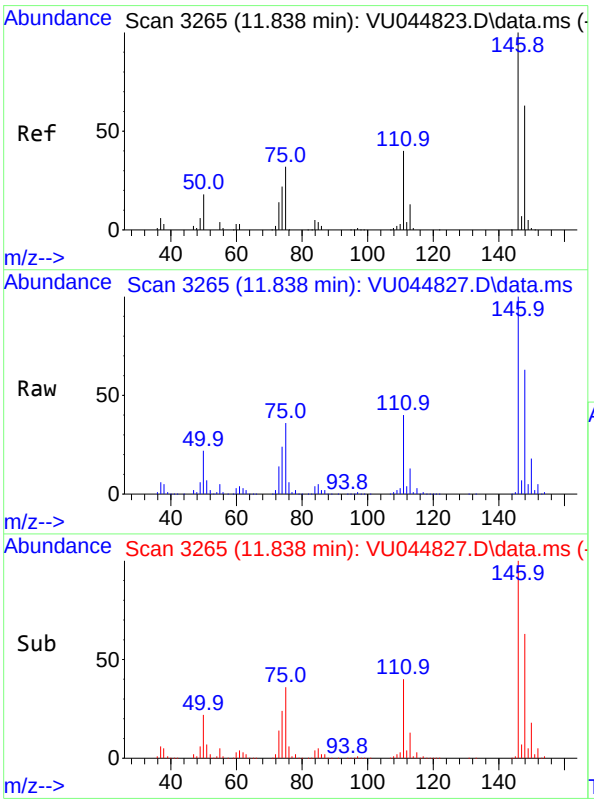


#87
1,3-Dichlorobenzene
Concen: 51.624 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:146 Resp: 239273

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.2	63.6
148	63.1	32.1	96.3

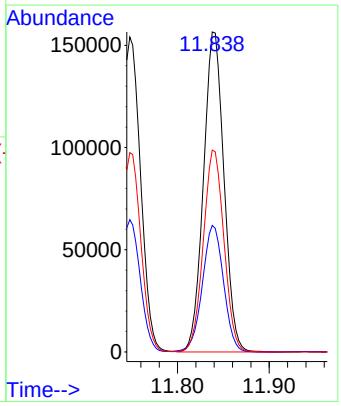




#88
1,4-Dichlorobenzene
Concen: 50.701 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:146 Resp: 243018

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.3	61.0
148	63.7	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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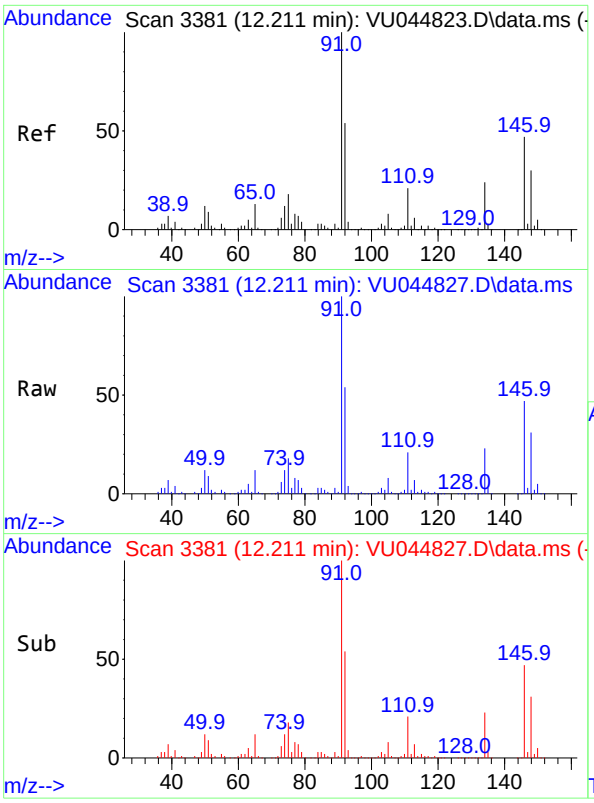
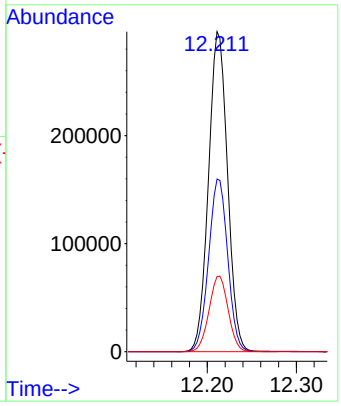
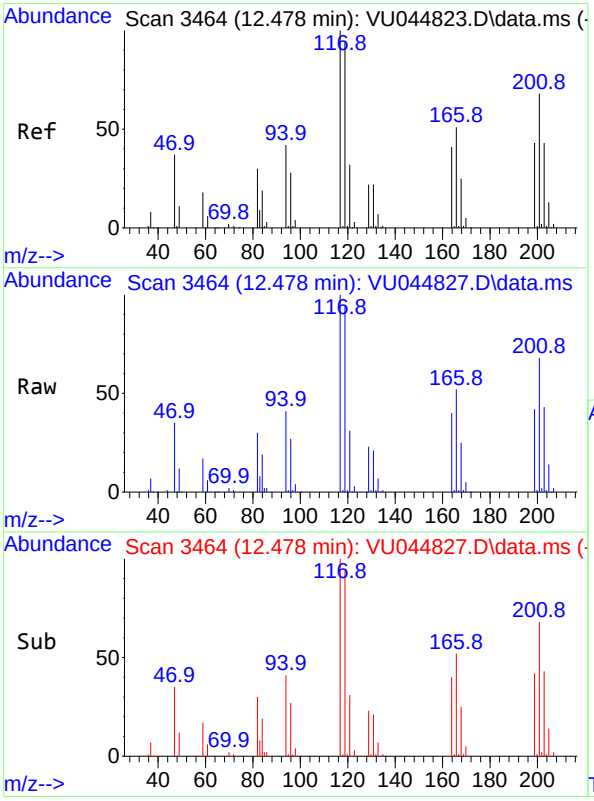


#89
n-Butylbenzene
Concen: 49.587 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 91 Resp: 438839

Ion	Ratio	Lower	Upper
91	100		
92	54.2	26.8	80.4
134	23.7	11.8	35.4

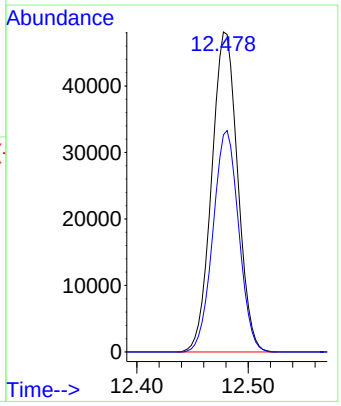




#90
Hexachloroethane
Concen: 50.349 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:117 Resp: 77965

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

Manual Integrations APPROVED
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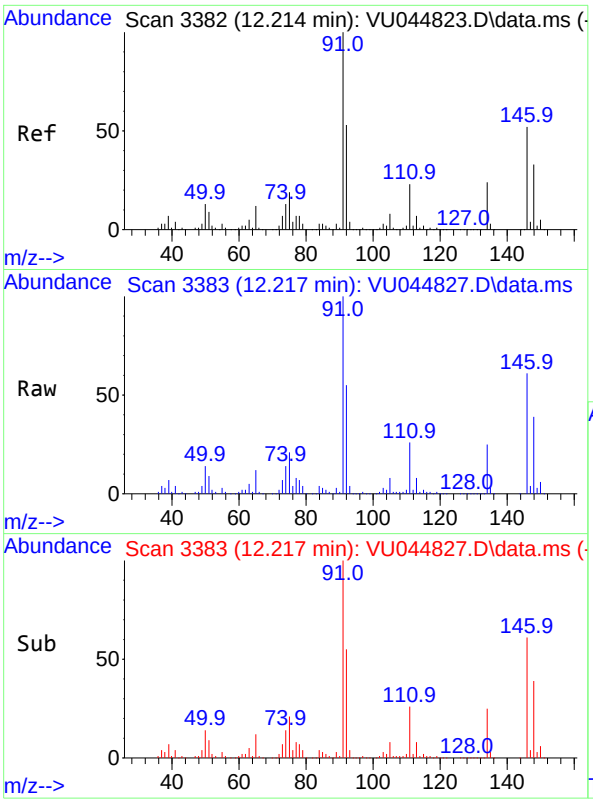
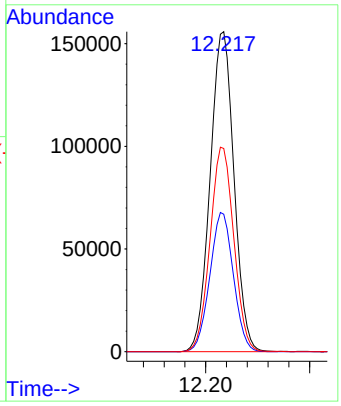
9/27/2021 11:02:52 AM

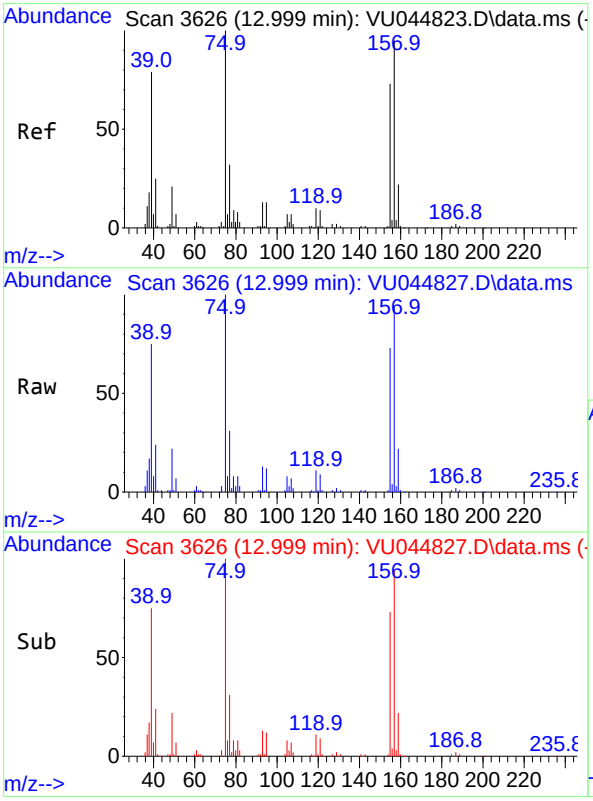


#91
1,2-Dichlorobenzene
Concen: 50.462 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:146 Resp: 247858

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.4	64.3
148	63.9	31.8	95.3

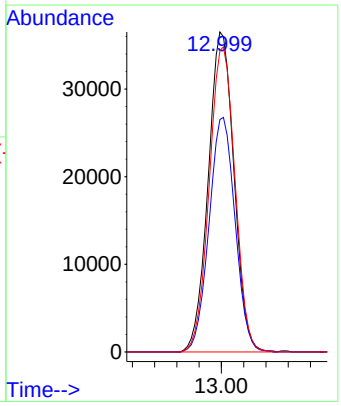




#92
1,2-Dibromo-3-Chloropropane
Concen: 53.067 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion: 75 Resp: 58605

Ion	Ratio	Lower	Upper
75	100		
155	74.0	36.9	110.6
157	95.4	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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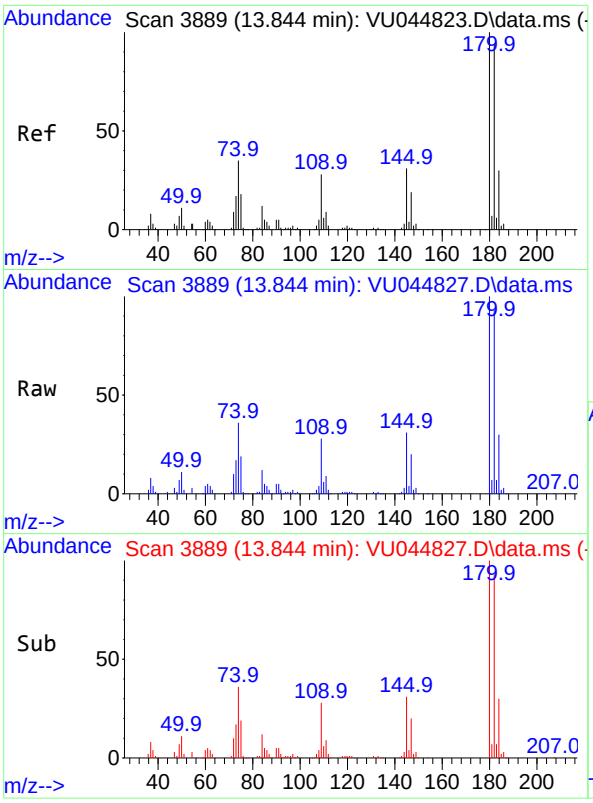
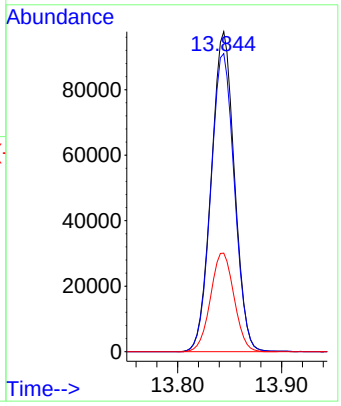
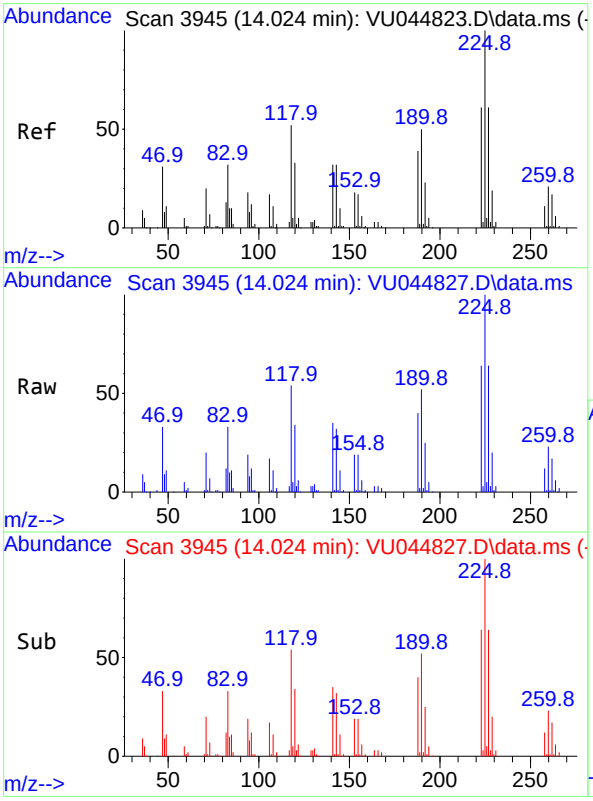


#93
1,2,4-Trichlorobenzene
Concen: 55.755 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:180 Resp: 151325

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.4	142.3
145	31.4	15.4	46.2

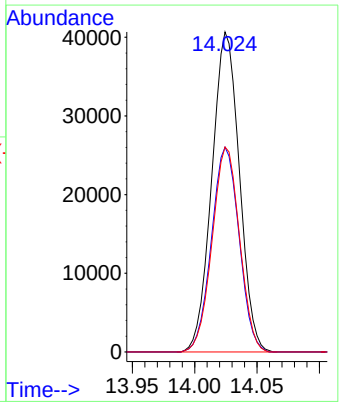




#94
Hexachlorobutadiene
Concen: 51.793 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:225 Resp: 62535

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.1	93.3
227	63.7	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

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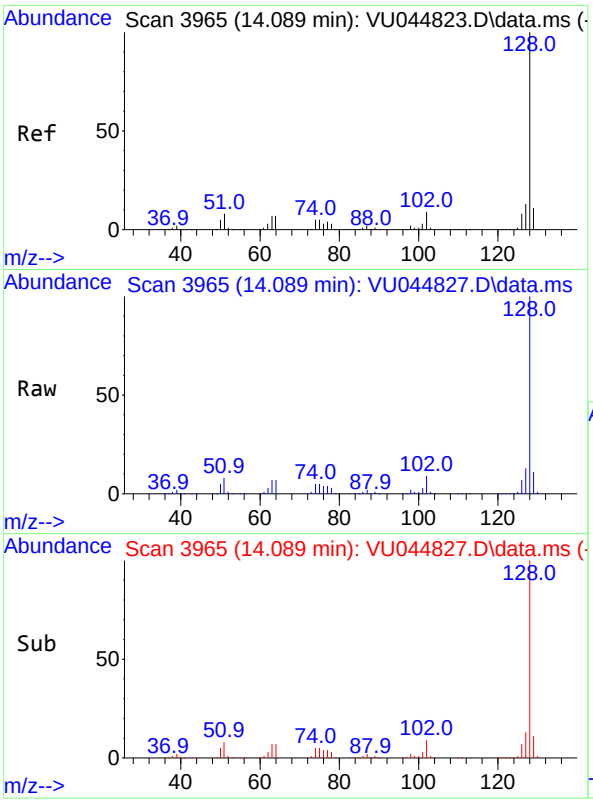
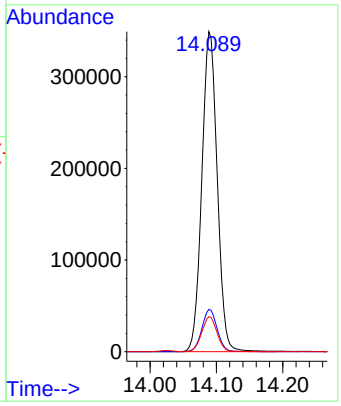
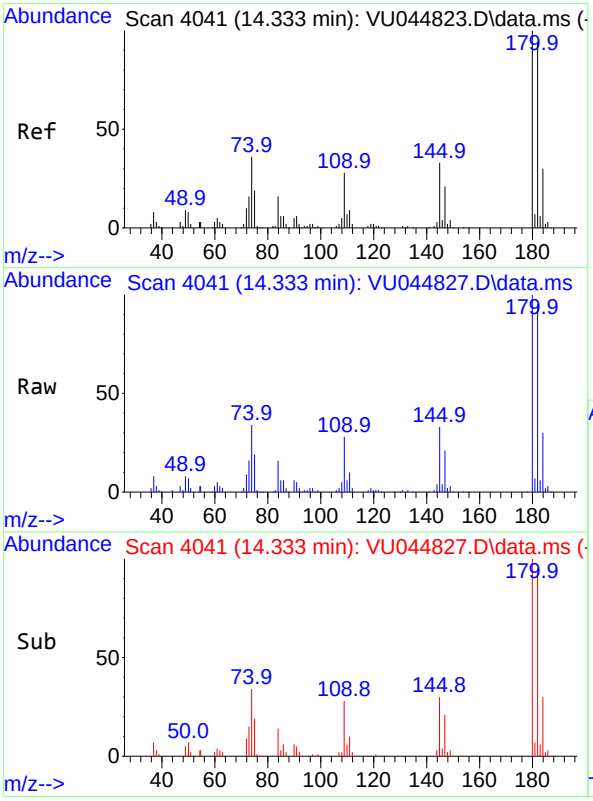


#95
Naphthalene
Concen: 51.931 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:128 Resp: 561437

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.9	8.6	13.0

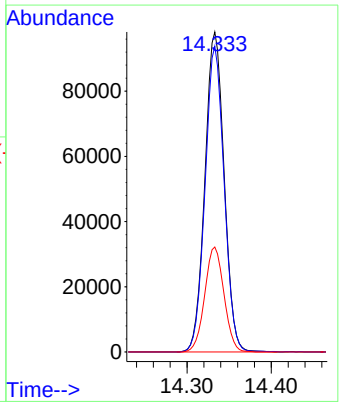




#96
1,2,3-Trichlorobenzene
Concen: 56.454 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044827.D
Acq: 24 Sep 2021 22:26

Tgt Ion:180 Resp: 155805

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.1	141.4
145	32.8	16.4	49.2



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ICVVU092521

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.599	0.619	-3.3	102	0.00
3	P	Chloromethane	0.909	0.867	4.6	102	0.00
4	C	Vinyl Chloride	0.848	0.863	-1.8#	104	0.00
5	T	Bromomethane	0.450	0.450	0.0	110	0.00
6	T	Chloroethane	0.659	0.554	15.9	101	0.00
7	T	Trichlorofluoromethane	1.042	1.041	0.1	101	0.00
8	T	Diethyl Ether	0.477	0.488	-2.3	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.608	0.604	0.7	100	0.00
10	T	Methyl Iodide	0.661	0.614	7.1	88	0.00
11	T	Tert butyl alcohol	0.255	0.247	3.1	102	-0.01
12	CM	1,1-Dichloroethene	0.602	0.608	-1.0#	102	0.00
13	T	Acrolein	0.072	0.073	-1.4	107	0.00
14	T	Allyl chloride	1.169	1.192	-2.0	102	0.00
15	T	Acrylonitrile	0.532	0.539	-1.3	100	0.00
16	T	Acetone	0.492	0.466	5.3	99	0.00
17	T	Carbon Disulfide	1.694	1.701	-0.4	103	0.00
18	T	Methyl Acetate	1.644	1.620	1.5	100	0.00
19	T	Methyl tert-butyl Ether	2.248	2.364	-5.2	103	0.00
20	T	Methylene Chloride	0.797	0.741	7.0	100	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.658	-2.0	102	0.00
22	T	Diisopropyl ether	2.309	2.437	-5.5	103	0.00
23	T	Vinyl Acetate	1.893	2.021	-6.8	102	0.00
24	P	1,1-Dichloroethane	1.340	1.368	-2.1	102	0.00
25	T	2-Butanone	0.747	0.750	-0.4	99	0.00
26	T	2,2-Dichloropropane	1.005	0.967	3.8	97	0.00
27	T	cis-1,2-Dichloroethene	0.784	0.780	0.5	101	0.00
28	T	Bromochloromethane	0.637	0.614	3.6	97	0.00
29	T	Tetrahydrofuran	0.470	0.477	-1.5	98	0.00
30	C	Chloroform	1.347	1.336	0.8#	102	0.00
31	T	Cyclohexane	1.253	1.230	1.8	102	0.00
32	T	1,1,1-Trichloroethane	1.089	1.105	-1.5	102	0.00
33	S	1,2-Dichloroethane-d4	0.873	0.880	-0.8	103	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35	S	Dibromofluoromethane	0.343	0.344	-0.3	104	0.00
36	T	1,1-Dichloropropene	0.531	0.534	-0.6	102	0.00
37	T	Ethyl Acetate	0.778	0.760	2.3	100	0.00
38	T	Carbon Tetrachloride	0.474	0.479	-1.1	100	0.00
39	T	Methylcyclohexane	0.600	0.627	-4.5	102	0.00
40	TM	Benzene	1.617	1.610	0.4	102	0.00
41	T	Methacrylonitrile	0.389	0.403	-3.6	101	0.00
42	TM	1,2-Dichloroethane	0.636	0.625	1.7	102	0.00
43	T	Isopropyl Acetate	1.089	1.112	-2.1	103	0.00
44	TM	Trichloroethene	0.389	0.375	3.6	102	0.00
45	C	1,2-Dichloropropane	0.438	0.438	0.0	99	0.00
46	T	Dibromomethane	0.290	0.287	1.0	100	0.00
47	T	Bromodichloromethane	0.572	0.571	0.2	100	0.00
48	T	Methyl methacrylate	0.514	0.531	-3.3	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ICVVU092521

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.013	0.014	-7.7	102	0.00
50	S	Toluene-d8	1.295	1.320	-1.9	104	0.00
51	T	4-Methyl-2-Pentanone	0.776	0.787	-1.4	101	0.00
52	CM	Toluene	0.967	0.987	-2.1#	102	0.00
53	T	t-1,3-Dichloropropene	0.596	0.625	-4.9	102	0.00
54	T	cis-1,3-Dichloropropene	0.646	0.674	-4.3	103	0.00
55	T	1,1,2-Trichloroethane	0.413	0.412	0.2	102	0.00
56	T	Ethyl methacrylate	0.652	0.703	-7.8	104	0.00
57	T	1,3-Dichloropropane	0.736	0.735	0.1	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.149	-2.8	101	0.00
59	T	2-Hexanone	0.623	0.636	-2.1	102	0.00
60	T	Dibromochloromethane	0.396	0.407	-2.8	103	0.00
61	T	1,2-Dibromoethane	0.434	0.437	-0.7	102	0.00
62	S	4-Bromofluorobenzene	0.481	0.492	-2.3	107	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64	T	Tetrachloroethene	0.339	0.345	-1.8	101	0.00
65	PM	Chlorobenzene	1.038	1.050	-1.2	103	0.00
66	T	1,1,1,2-Tetrachloroethane	0.370	0.374	-1.1	102	0.00
67	C	Ethyl Benzene	1.853	1.971	-6.4#	103	0.00
68	T	m/p-Xylenes	0.709	0.756	-6.6	102	0.00
69	T	o-Xylene	0.685	0.741	-8.2	104	0.00
70	T	Styrene	1.150	1.261	-9.7	103	0.00
71	P	Bromoform	0.306	0.315	-2.9	105	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.549	3.837	-8.1	105	0.00
74	T	N-amyl acetate	1.809	1.984	-9.7	106	0.00
75	P	1,1,2,2-Tetrachloroethane	1.617	1.591	1.6	105	0.00
76	T	1,2,3-Trichloropropane	1.514	1.489	1.7	103	0.00
77	T	Bromobenzene	0.848	0.879	-3.7	104	0.00
78	T	n-propylbenzene	4.300	4.695	-9.2	105	0.00
79	T	2-Chlorotoluene	2.621	2.757	-5.2	104	0.00
80	T	1,3,5-Trimethylbenzene	3.006	3.269	-8.7	103	0.00
81	T	trans-1,4-Dichloro-2-butene	0.467	0.484	-3.6	104	0.00
82	T	4-Chlorotoluene	2.984	3.220	-7.9	105	0.00
83	T	tert-Butylbenzene	2.900	3.157	-8.9	106	0.00
84	T	1,2,4-Trimethylbenzene	2.964	3.296	-11.2	104	0.00
85	T	sec-Butylbenzene	3.750	4.164	-11.0	104	0.00
86	T	p-Isopropyltoluene	3.051	3.419	-12.1	104	0.00
87	T	1,3-Dichlorobenzene	1.645	1.699	-3.3	105	0.00
88	T	1,4-Dichlorobenzene	1.701	1.725	-1.4	105	0.00
89	T	n-Butylbenzene	2.805	3.116	-11.1	103	0.00
90	T	Hexachloroethane	0.550	0.554	-0.7	103	0.00
91	T	1,2-Dichlorobenzene	1.744	1.760	-0.9	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.392	0.416	-6.1	105	0.00
93	T	1,2,4-Trichlorobenzene	0.963	1.074	-11.5	106	0.00
94	T	Hexachlorobutadiene	0.429	0.444	-3.5	103	0.00
95	T	Naphthalene	3.360	3.986	-18.6	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ICVVU092521

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.980	1.106	-12.9	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ICVVU092521

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	50.000	51.689	-3.4	102	0.00
3	P	Chloromethane	50.000	47.712	4.6	102	0.00
4	C	Vinyl Chloride	50.000	50.877	-1.8#	104	0.00
5	T	Bromomethane	50.000	55.023	-10.0	110	0.00
6	T	Chloroethane	50.000	48.701	2.6	101	0.00
7	T	Trichlorofluoromethane	50.000	49.955	0.1	101	0.00
8	T	Diethyl Ether	50.000	51.129	-2.3	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.674	0.7	100	0.00
10	T	Methyl Iodide	50.000	46.445	7.1	88	0.00
11	T	Tert butyl alcohol	250.000	242.592	3.0	102	-0.01
12	CM	1,1-Dichloroethene	50.000	50.487	-1.0#	102	0.00
13	T	Acrolein	250.000	264.876	-6.0	107	0.00
14	T	Allyl chloride	50.000	51.015	-2.0	102	0.00
15	T	Acrylonitrile	250.000	253.320	-1.3	100	0.00
16	T	Acetone	250.000	236.578	5.4	99	0.00
17	T	Carbon Disulfide	50.000	50.210	-0.4	103	0.00
18	T	Methyl Acetate	50.000	49.262	1.5	100	0.00
19	T	Methyl tert-butyl Ether	50.000	52.584	-5.2	103	0.00
20	T	Methylene Chloride	50.000	46.490	7.0	100	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.052	-2.1	102	0.00
22	T	Diisopropyl ether	50.000	52.787	-5.6	103	0.00
23	T	Vinyl Acetate	250.000	266.913	-6.8	102	0.00
24	P	1,1-Dichloroethane	50.000	51.054	-2.1	102	0.00
25	T	2-Butanone	250.000	250.939	-0.4	99	0.00
26	T	2,2-Dichloropropane	50.000	48.114	3.8	97	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.732	0.5	101	0.00
28	T	Bromochloromethane	50.000	48.237	3.5	97	0.00
29	T	Tetrahydrofuran	250.000	253.943	-1.6	98	0.00
30	C	Chloroform	50.000	49.590	0.8#	102	0.00
31	T	Cyclohexane	50.000	49.090	1.8	102	0.00
32	T	1,1,1-Trichloroethane	50.000	50.765	-1.5	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.420	-0.8	103	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35	S	Dibromofluoromethane	50.000	50.179	-0.4	104	0.00
36	T	1,1-Dichloropropene	50.000	50.340	-0.7	102	0.00
37	T	Ethyl Acetate	50.000	48.823	2.4	100	0.00
38	T	Carbon Tetrachloride	50.000	50.465	-0.9	100	0.00
39	T	Methylcyclohexane	50.000	52.218	-4.4	102	0.00
40	TM	Benzene	50.000	49.765	0.5	102	0.00
41	T	Methacrylonitrile	50.000	51.842	-3.7	101	0.00
42	TM	1,2-Dichloroethane	50.000	49.101	1.8	102	0.00
43	T	Isopropyl Acetate	50.000	51.076	-2.2	103	0.00
44	TM	Trichloroethene	50.000	48.233	3.5	102	0.00
45	C	1,2-Dichloropropane	50.000	50.067	-0.1#	99	0.00
46	T	Dibromomethane	50.000	49.495	1.0	100	0.00
47	T	Bromodichloromethane	50.000	49.857	0.3	100	0.00
48	T	Methyl methacrylate	50.000	51.657	-3.3	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ICVVU092521

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1066.363	-6.6	102	0.00
50	S	Toluene-d8	50.000	50.944	-1.9	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	253.653	-1.5	101	0.00
52	CM	Toluene	50.000	51.017	-2.0#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	52.444	-4.9	102	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.219	-4.4	103	0.00
55	T	1,1,2-Trichloroethane	50.000	49.883	0.2	102	0.00
56	T	Ethyl methacrylate	50.000	47.810	4.4	104	0.00
57	T	1,3-Dichloropropane	50.000	49.947	0.1	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	214.122	14.4	101	0.00
59	T	2-Hexanone	250.000	255.392	-2.2	102	0.00
60	T	Dibromochloromethane	50.000	51.462	-2.9	103	0.00
61	T	1,2-Dibromoethane	50.000	50.325	-0.7	102	0.00
62	S	4-Bromofluorobenzene	50.000	51.084	-2.2	107	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64	T	Tetrachloroethene	50.000	50.921	-1.8	101	0.00
65	PM	Chlorobenzene	50.000	50.586	-1.2	103	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.519	-1.0	102	0.00
67	C	Ethyl Benzene	50.000	53.191	-6.4#	103	0.00
68	T	m/p-Xylenes	100.000	106.681	-6.7	102	0.00
69	T	o-Xylene	50.000	54.081	-8.2	104	0.00
70	T	Styrene	50.000	49.253	1.5	103	0.00
71	P	Bromoform	50.000	51.476	-3.0	105	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	54.063	-8.1	105	0.00
74	T	N-amyl acetate	50.000	54.844	-9.7	106	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.208	1.6	105	0.00
76	T	1,2,3-Trichloropropane	50.000	49.159	1.7	103	0.00
77	T	Bromobenzene	50.000	51.817	-3.6	104	0.00
78	T	n-propylbenzene	50.000	54.594	-9.2	105	0.00
79	T	2-Chlorotoluene	50.000	52.597	-5.2	104	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.377	-8.8	103	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.739	-3.5	104	0.00
82	T	4-Chlorotoluene	50.000	53.967	-7.9	105	0.00
83	T	tert-Butylbenzene	50.000	54.439	-8.9	106	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.618	-11.2	104	0.00
85	T	sec-Butylbenzene	50.000	55.529	-11.1	104	0.00
86	T	p-Isopropyltoluene	50.000	56.045	-12.1	104	0.00
87	T	1,3-Dichlorobenzene	50.000	51.624	-3.2	105	0.00
88	T	1,4-Dichlorobenzene	50.000	50.701	-1.4	105	0.00
89	T	n-Butylbenzene	50.000	49.587	0.8	103	0.00
90	T	Hexachloroethane	50.000	50.349	-0.7	103	0.00
91	T	1,2-Dichlorobenzene	50.000	50.462	-0.9	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.067	-6.1	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	55.755	-11.5	106	0.00
94	T	Hexachlorobutadiene	50.000	51.793	-3.6	103	0.00
95	T	Naphthalene	50.000	51.931	-3.9	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044827.D
Acq On : 24 Sep 2021 22:26
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU092521

Quant Time: Sep 27 01:23:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	56.454	-12.9	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/25/2021 12:12

Lab File ID: VU044829.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.599	0.583		-2.67	20
Chloromethane	0.909	0.790	0.1	-13.09	20
Vinyl Chloride	0.848	0.791		-6.72	20
Bromomethane	0.450	0.455		1.11	20
Chloroethane	0.659	0.561		-14.87	20
Trichlorofluoromethane	1.042	1.035		-0.67	20
1,1,2-Trichlorotrifluoroethane	0.608	0.604		-0.66	20
1,1-Dichloroethene	0.602	0.566		-5.98	20
Acetone	0.492	0.456		-7.32	20
Carbon Disulfide	1.694	1.526		-9.92	20
Methyl tert-butyl Ether	2.248	2.192		-2.49	20
Methyl Acetate	1.644	1.485		-9.67	20
Methylene Chloride	0.797	0.712		-10.66	20
trans-1,2-Dichloroethene	0.645	0.619		-4.03	20
1,1-Dichloroethane	1.340	1.300	0.1	-2.98	20
Cyclohexane	1.253	1.134		-9.5	20
2-Butanone	0.747	0.690		-7.63	20
Carbon Tetrachloride	0.474	0.457		-3.59	20
cis-1,2-Dichloroethene	0.784	0.738		-5.87	20
Bromochloromethane	0.637	0.619		-2.83	20
Chloroform	1.347	1.267		-5.94	20
1,1,1-Trichloroethane	1.089	1.032		-5.23	20
Methylcyclohexane	0.600	0.616		2.67	20
Benzene	1.617	1.551		-4.08	20
1,2-Dichloroethane	0.636	0.613		-3.62	20
Trichloroethene	0.389	0.362		-6.94	20
1,2-Dichloropropane	0.438	0.422		-3.65	20
Bromodichloromethane	0.572	0.556		-2.8	20
4-Methyl-2-Pentanone	0.776	0.735		-5.28	20
Toluene	0.967	0.959		-0.83	20
t-1,3-Dichloropropene	0.596	0.606		1.68	20
cis-1,3-Dichloropropene	0.646	0.650		0.62	20
1,1,2-Trichloroethane	0.413	0.400		-3.15	20
2-Hexanone	0.623	0.582		-6.58	20
Dibromochloromethane	0.396	0.383		-3.28	20
1,2-Dibromoethane	0.434	0.422		-2.77	20
Tetrachloroethene	0.339	0.337		-0.59	20
Chlorobenzene	1.038	1.014	0.3	-2.31	20
Ethyl Benzene	1.853	1.918		3.51	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/25/2021 12:12

Lab File ID: VU044829.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.709	0.746		5.22	20
o-Xylene	0.685	0.717		4.67	20
Styrene	1.150	1.227		6.7	20
Bromoform	0.306	0.284	0.1	-7.19	20
Isopropylbenzene	3.549	3.689		3.94	20
1,1,2,2-Tetrachloroethane	1.617	1.501	0.3	-7.17	20
1,3-Dichlorobenzene	1.645	1.608		-2.25	20
1,4-Dichlorobenzene	1.701	1.630		-4.17	20
1,2-Dichlorobenzene	1.744	1.634		-6.31	20
1,2-Dibromo-3-Chloropropane	0.392	0.374		-4.59	20
1,2,4-Trichlorobenzene	0.963	0.966		0.31	20
1,2,3-Trichlorobenzene	0.980	0.989		0.92	20
1,2-Dichloroethane-d4	0.873	0.852		-2.4	20
Dibromofluoromethane	0.343	0.336		-2.04	20
Toluene-d8	1.295	1.305		0.77	20
4-Bromofluorobenzene	0.481	0.488		1.46	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTDCCC050

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	159253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	282895	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	269865	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	137105	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	135740	48.838	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.680%			
35) Dibromofluoromethane	5.295	113	95182	49.045	ug/l	0.00
Spiked Amount 50.000			Recovery = 98.080%			
50) Toluene-d8	7.903	98	369293	50.384	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.760%			
62) 4-Bromofluorobenzene	10.636	95	138016	50.697	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	92888	48.702	ug/l	98
3) Chloromethane	1.520	50	125882	43.490	ug/l	100
4) Vinyl Chloride	1.607	62	125967	46.629	ug/l	99
5) Bromomethane	1.851	94	72462	55.704	ug/l	99
6) Chloroethane	1.928	64	89409	49.315	ug/l	99
7) Trichlorofluoromethane	2.137	101	164871	49.695	ug/l	98
8) Diethyl Ether	2.382	74	74578	49.106	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.584	101	96142	49.623	ug/l	98
10) Methyl Iodide	2.726	142	97029	46.088	ug/l	99
11) Tert butyl alcohol	3.221	59	164815	203.166	ug/l #	84
12) 1,1-Dichloroethene	2.584	96	90079	46.978	ug/l	96
13) Acrolein	2.491	56	60939	278.174	ug/l	97
14) Allyl chloride	2.928	41	172702	46.403	ug/l	98
15) Acrylonitrile	3.321	53	394691	232.916	ug/l	99
16) Acetone	2.636	43	363239	231.691	ug/l	99
17) Carbon Disulfide	2.797	76	243010	45.051	ug/l	100
18) Methyl Acetate	2.954	43	236449	45.144	ug/l	99
19) Methyl tert-butyl Ether	3.369	73	349120	48.759	ug/l	99
20) Methylene Chloride	3.051	84	113416	44.690	ug/l	97
21) trans-1,2-Dichloroethene	3.356	96	98527	47.991	ug/l	98
22) Diisopropyl ether	3.999	45	353874	48.123	ug/l	94
23) Vinyl Acetate	3.964	43	1472661	244.210	ug/l	99
24) 1,1-Dichloroethane	3.877	63	207014	48.501	ug/l	100
25) 2-Butanone	4.710	43	549175	230.863	ug/l	99
26) 2,2-Dichloropropane	4.671	77	157974	49.354	ug/l	99
27) cis-1,2-Dichloroethene	4.671	96	117575	47.088	ug/l	99
28) Bromochloromethane	4.980	49	98637	48.630	ug/l	99
29) Tetrahydrofuran	5.057	42	341027	227.876	ug/l	97
30) Chloroform	5.096	83	201717	47.002	ug/l	100
31) Cyclohexane	5.395	56	180632	45.267	ug/l	100
32) 1,1,1-Trichloroethane	5.321	97	164320	47.388	ug/l	99
36) 1,1-Dichloropropene	5.533	75	146483	48.802	ug/l	100
37) Ethyl Acetate	4.809	43	204404	46.411	ug/l	99
38) Carbon Tetrachloride	5.530	117	129378	48.214	ug/l	98
39) Methylcyclohexane	6.768	83	174293	51.341	ug/l	98
40) Benzene	5.780	78	438827	47.953	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.980	41	105942	48.192	ug/l		98
42) 1,2-Dichloroethane	5.800	62	173516	48.196	ug/l		99
43) Isopropyl Acetate	5.919	43	295051	47.885	ug/l		100
44) Trichloroethene	6.546	130	102402	46.559	ug/l		98
45) 1,2-Dichloropropane	6.796	63	119257	48.152	ug/l		98
46) Dibromomethane	6.922	93	79877	48.673	ug/l		100
47) Bromodichloromethane	7.112	83	157426	48.631	ug/l		99
48) Methyl methacrylate	6.964	41	140903	48.449	ug/l		97
49) 1,4-Dioxane	6.989	88	70062	942.607	ug/l		97
51) 4-Methyl-2-Pentanone	7.796	43	1039300	236.667	ug/l		99
52) Toluene	7.973	92	271386	49.602	ug/l		100
53) t-1,3-Dichloropropene	8.214	75	171522	50.858	ug/l		98
54) cis-1,3-Dichloropropene	7.610	75	183870	50.342	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	113137	48.366	ug/l		99
56) Ethyl methacrylate	8.337	69	188830	45.495	ug/l		99
57) 1,3-Dichloropropane	8.581	76	201934	48.480	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.468	63	201256	205.359	ug/l		99
59) 2-Hexanone	8.690	43	822781	233.419	ug/l		99
60) Dibromochloromethane	8.816	129	108450	48.414	ug/l		99
61) 1,2-Dibromoethane	8.928	107	119417	48.619	ug/l		99
64) Tetrachloroethene	8.558	164	91037	49.769	ug/l		98
65) Chlorobenzene	9.449	112	273583	48.834	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	97389	48.738	ug/l		98
67) Ethyl Benzene	9.574	91	517470	51.750	ug/l		99
68) m/p-Xylenes	9.697	106	402823	105.327	ug/l		100
69) o-Xylene	10.105	106	193624	52.357	ug/l		99
70) Styrene	10.118	104	331147	47.952	ug/l		99
71) Bromoform	10.295	173	76719	46.401	ug/l	#	100
73) Isopropylbenzene	10.488	105	505715	51.969	ug/l		100
74) N-amyl acetate	10.324	43	244068	49.209	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.787	83	205734	46.407	ug/l		100
76) 1,2,3-Trichloropropane	10.828	75	203608m	49.041	ug/l		
77) Bromobenzene	10.787	156	113841	48.967	ug/l		98
78) n-propylbenzene	10.909	91	626226	53.110	ug/l		100
79) 2-Chlorotoluene	10.989	91	366566	51.009	ug/l		99
80) 1,3,5-Trimethylbenzene	11.092	105	441021	53.504	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.552	75	64952	50.679	ug/l		99
82) 4-Chlorotoluene	11.099	91	427923	52.304	ug/l		99
83) tert-Butylbenzene	11.423	119	409128	51.452	ug/l		99
84) 1,2,4-Trimethylbenzene	11.472	105	434663	53.489	ug/l		100
85) sec-Butylbenzene	11.648	105	551536	53.639	ug/l		99
86) p-Isopropyltoluene	11.796	119	453566	54.223	ug/l		99
87) 1,3-Dichlorobenzene	11.748	146	220474	48.868	ug/l		100
88) 1,4-Dichlorobenzene	11.838	146	223419	47.886	ug/l		99
89) n-Butylbenzene	12.211	91	427789	49.658	ug/l		99
90) Hexachloroethane	12.481	117	74133	49.183	ug/l		97
91) 1,2-Dichlorobenzene	12.217	146	223987	46.849	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.999	75	51338	47.757	ug/l		97
93) 1,2,4-Trichlorobenzene	13.844	180	132451	50.135	ug/l		100
94) Hexachlorobutadiene	14.024	225	55858	47.527	ug/l		99
95) Naphthalene	14.089	128	482980	46.005	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	135647	50.493	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
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Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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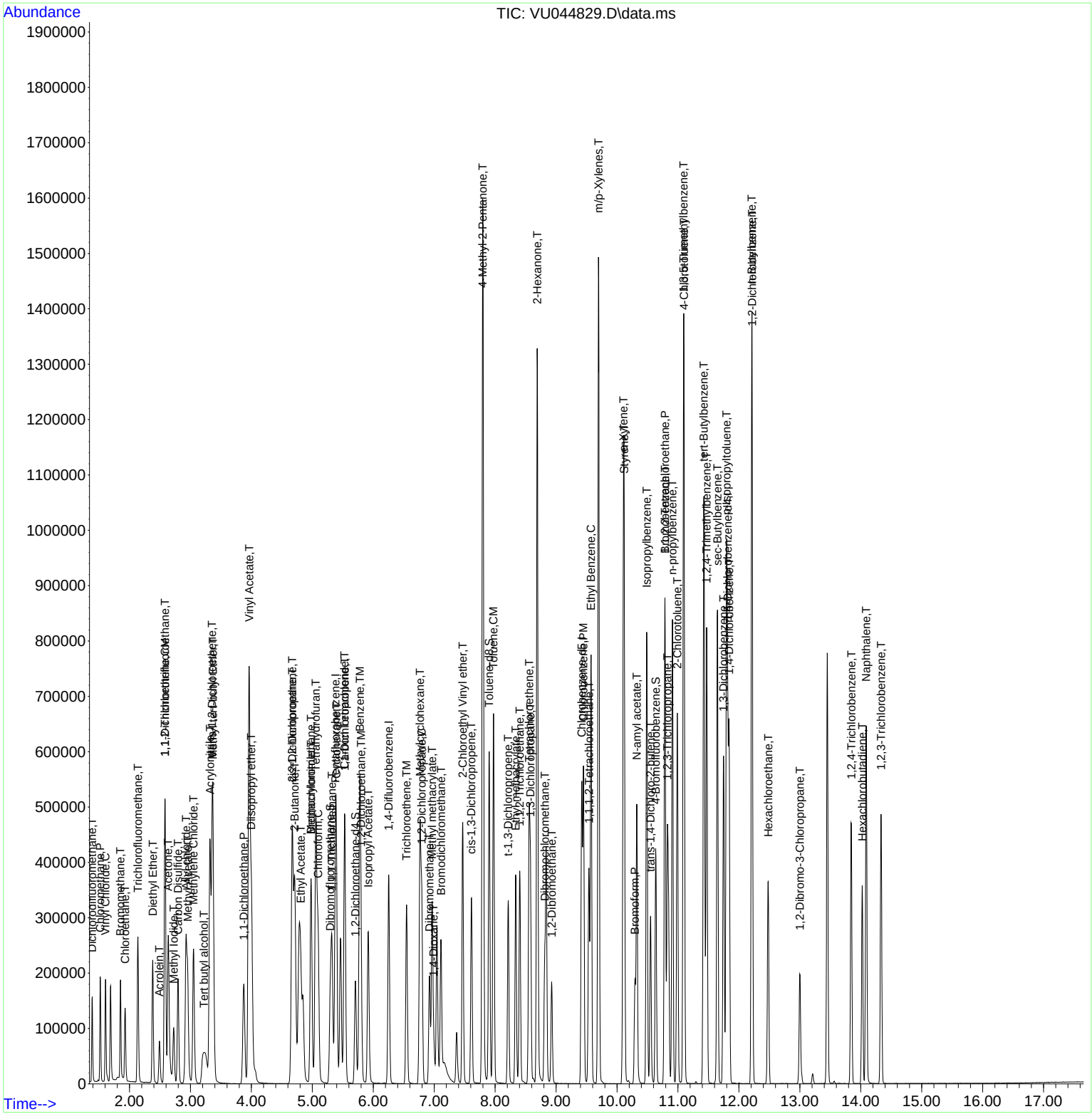
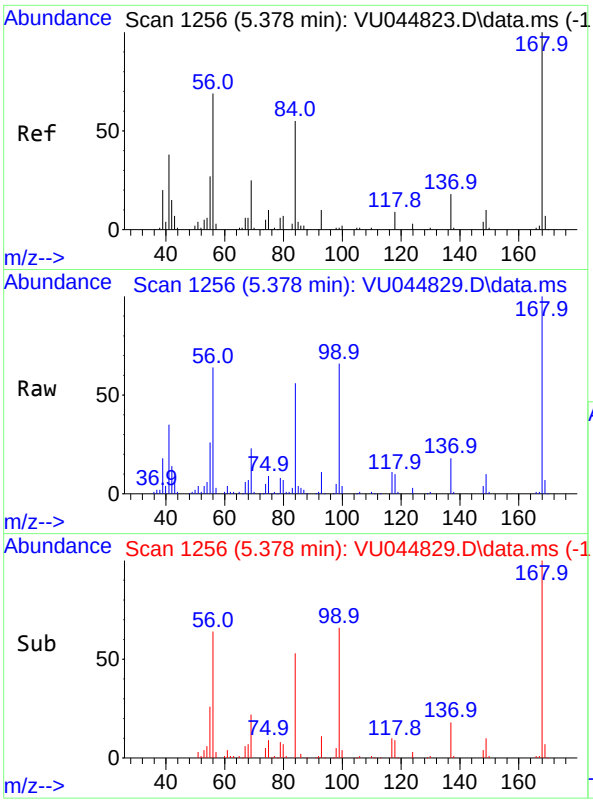
9/27/2021 11:02:55 AM



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

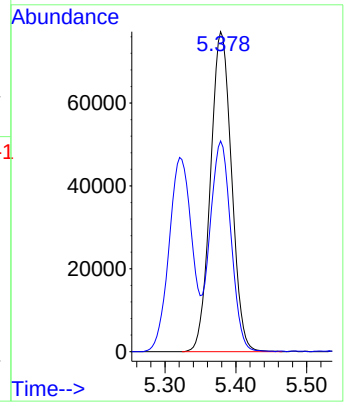
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

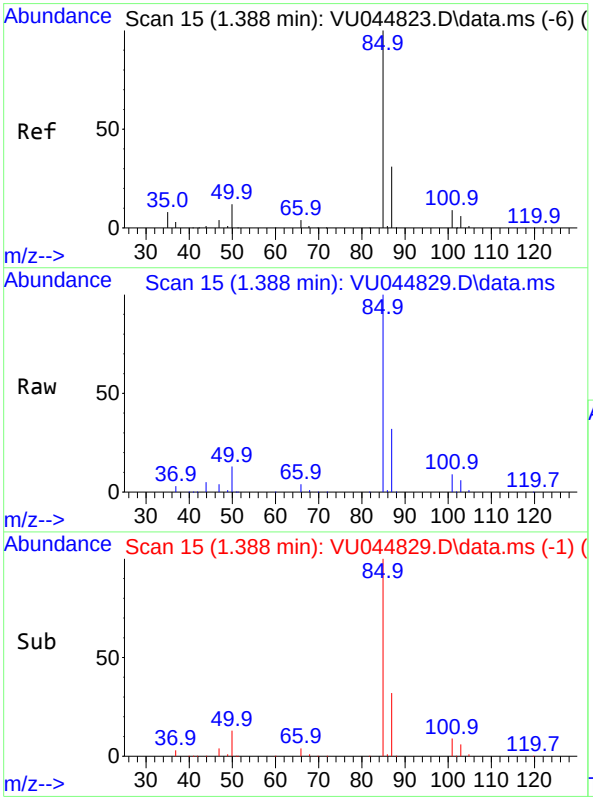


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:168 Resp: 159253

Ion	Ratio	Lower	Upper
168	100		
99	65.7	51.4	77.0

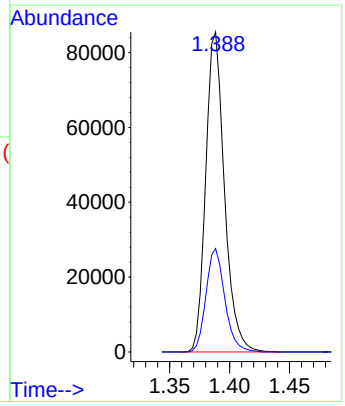




#2
Dichlorodifluoromethane
Concen: 48.702 ug/l
RT: 1.388 min Scan# 15
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 85 Resp: 92888

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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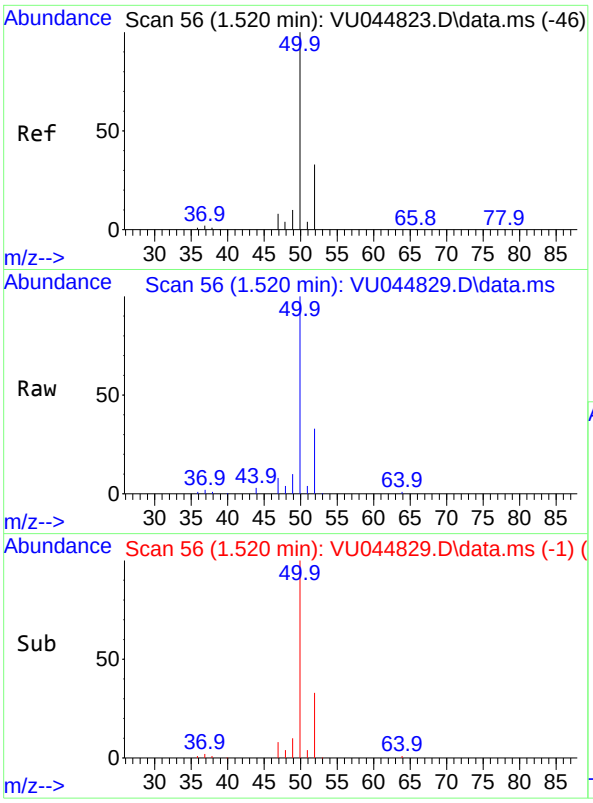
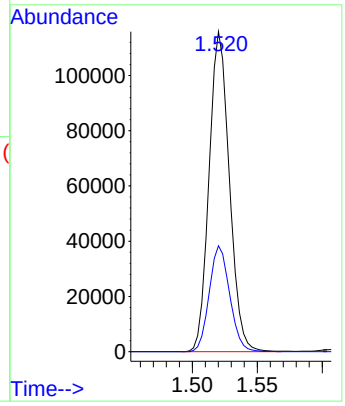
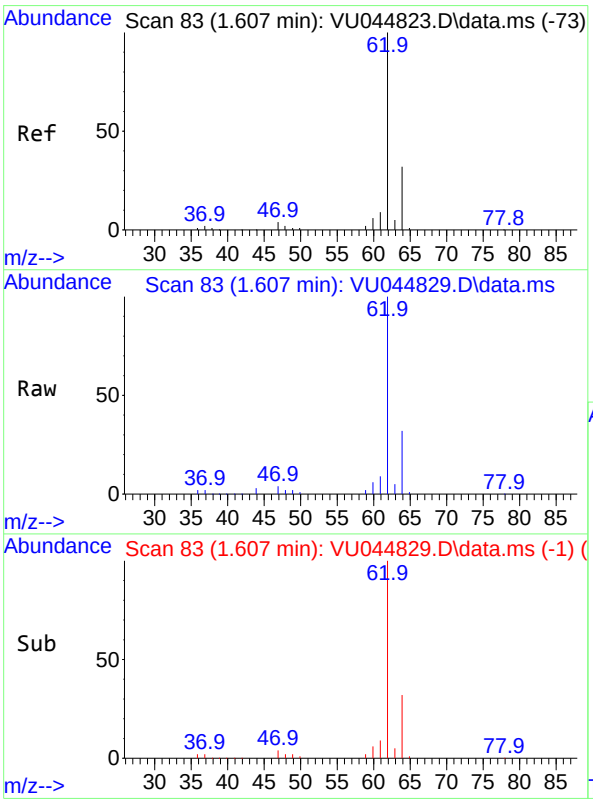


#3
Chloromethane
Concen: 43.490 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 50 Resp: 125882

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.3	39.5

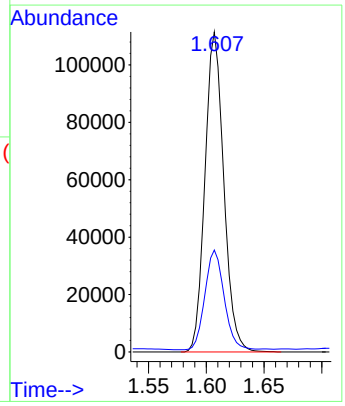




#4
Vinyl Chloride
Concen: 46.629 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

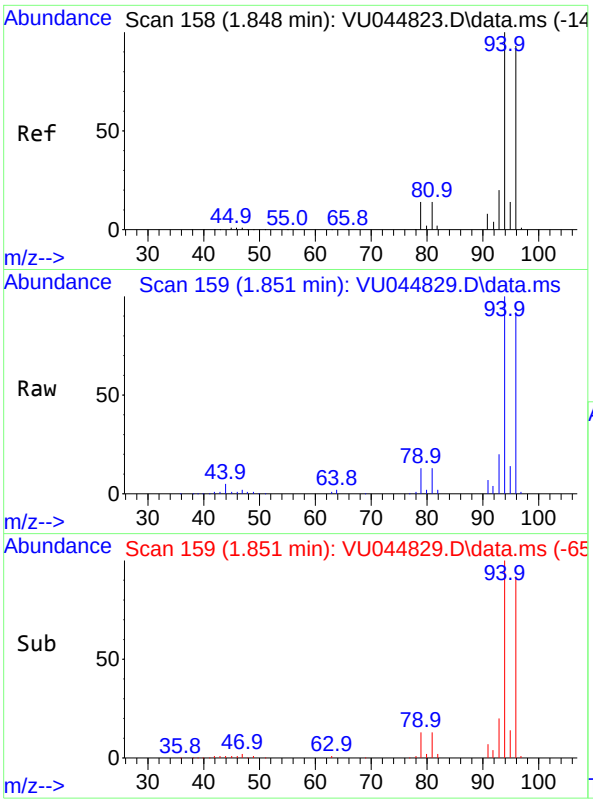
Tgt Ion: 62 Resp: 125967

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

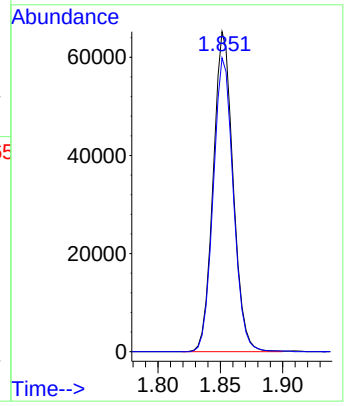
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

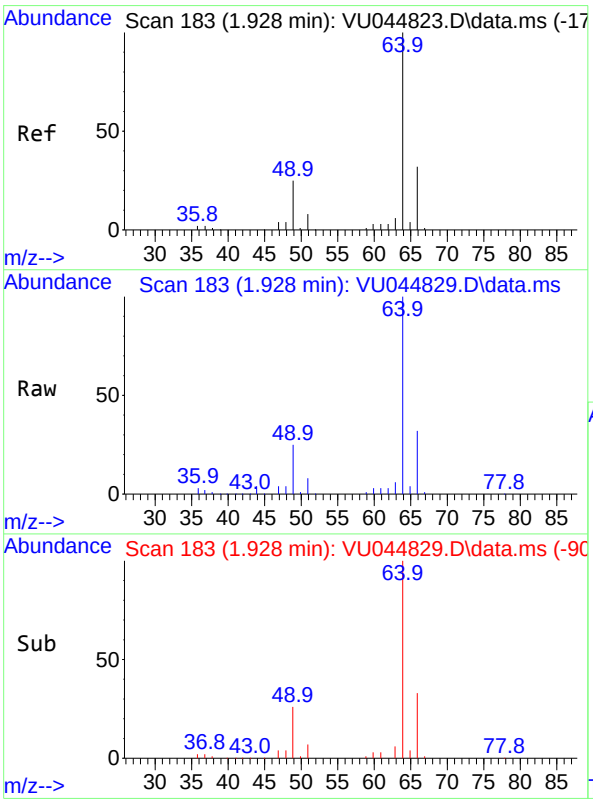


#5
Bromomethane
Concen: 55.704 ug/l
RT: 1.851 min Scan# 159
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 94 Resp: 72462

Ion	Ratio	Lower	Upper
94	100		
96	91.8	74.5	111.7

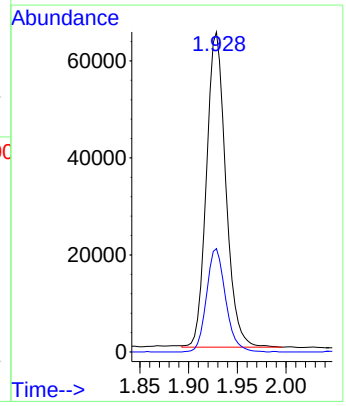




#6
Chloroethane
Concen: 49.315 ug/l
RT: 1.928 min Scan# 183
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

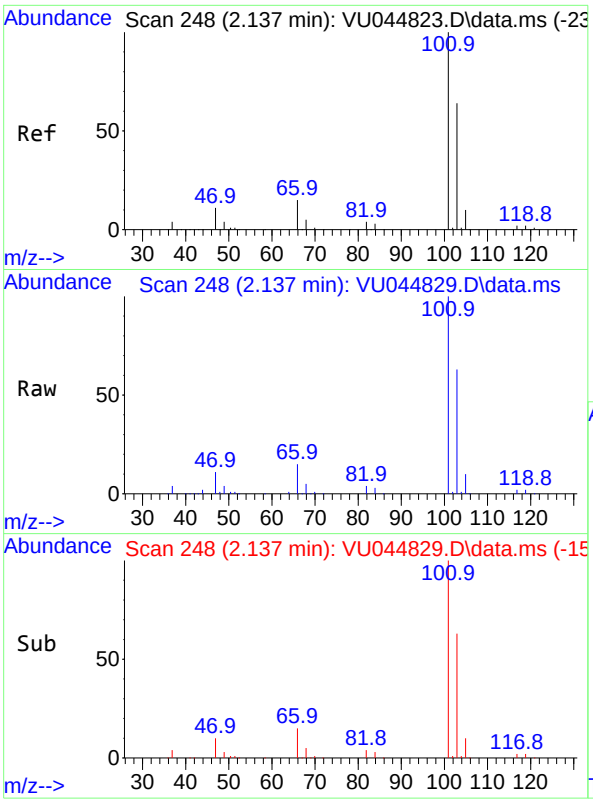
Tgt Ion: 64 Resp: 89409

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

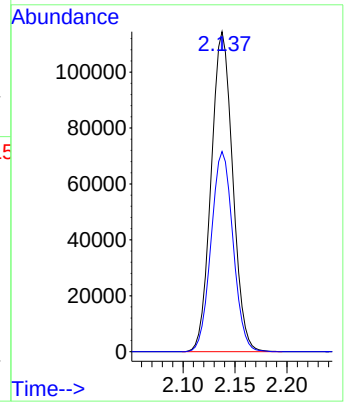
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

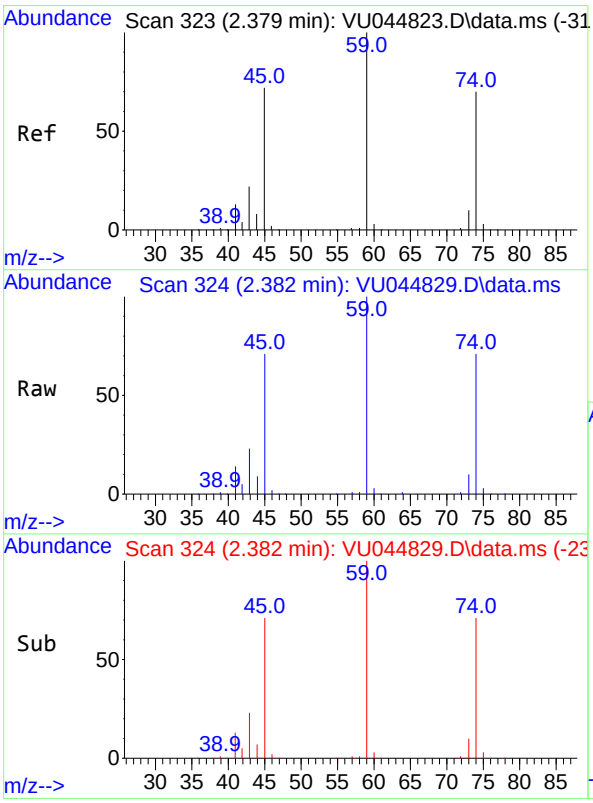


#7
Trichlorofluoromethane
Concen: 49.695 ug/l
RT: 2.137 min Scan# 248
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:101 Resp: 164871

Ion	Ratio	Lower	Upper
101	100		
103	62.6	51.2	76.8

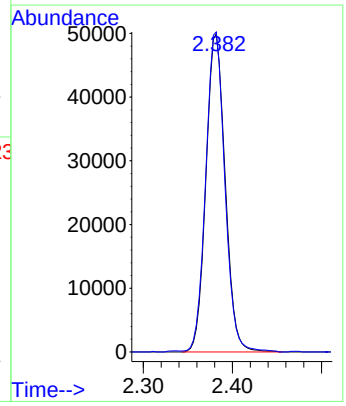




#8
Diethyl Ether
Concen: 49.106 ug/l
RT: 2.382 min Scan# 324
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 74 Resp: 74578

Ion	Ratio	Lower	Upper
74	100		
45	100.5	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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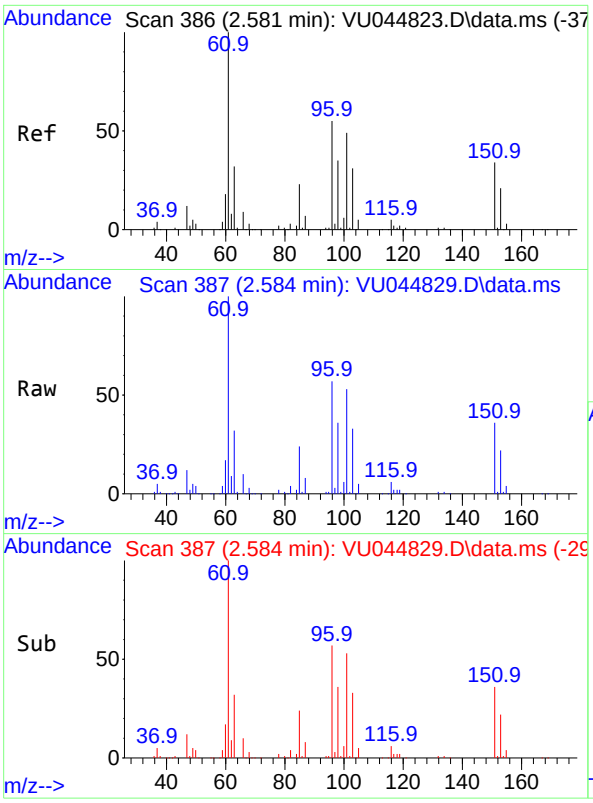
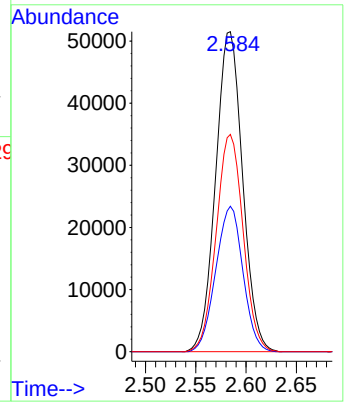
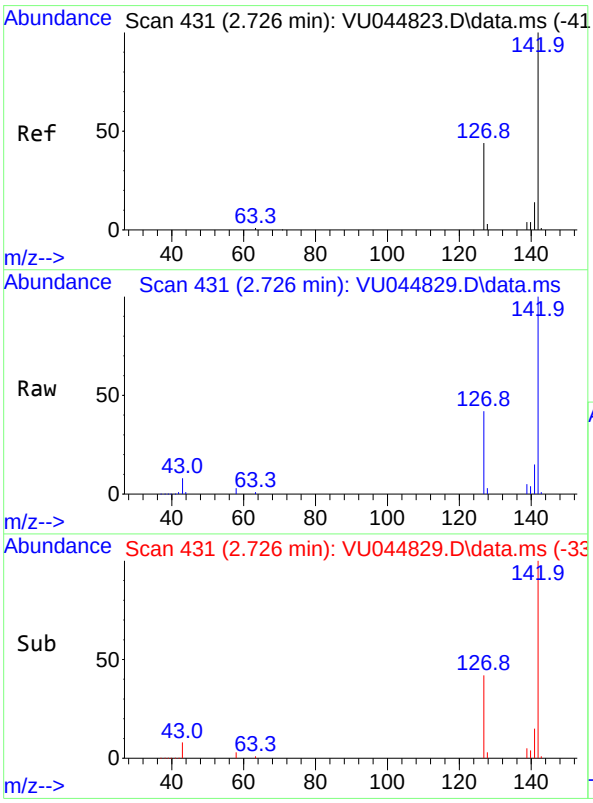


#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.623 ug/l
RT: 2.584 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:101 Resp: 96142

Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.2	55.8
151	67.9	55.8	83.8

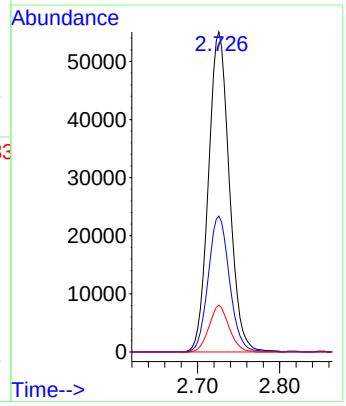




#10
Methyl Iodide
Concen: 46.088 ug/l
RT: 2.726 min Scan# 431
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:142 Resp: 97029

Ion	Ratio	Lower	Upper
142	100		
127	43.3	35.6	53.4
141	14.0	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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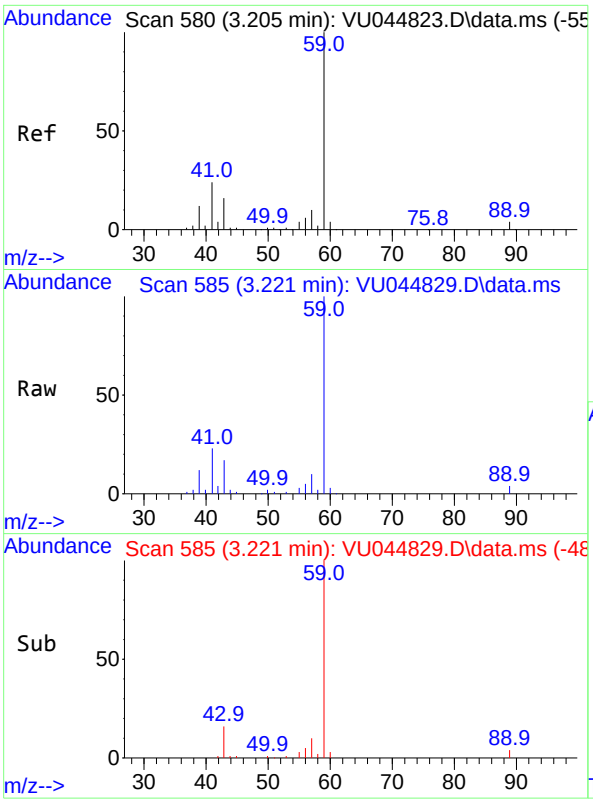
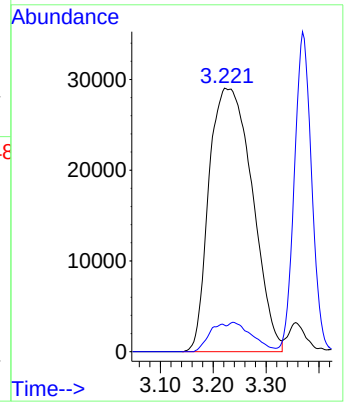
9/27/2021 11:02:55 AM

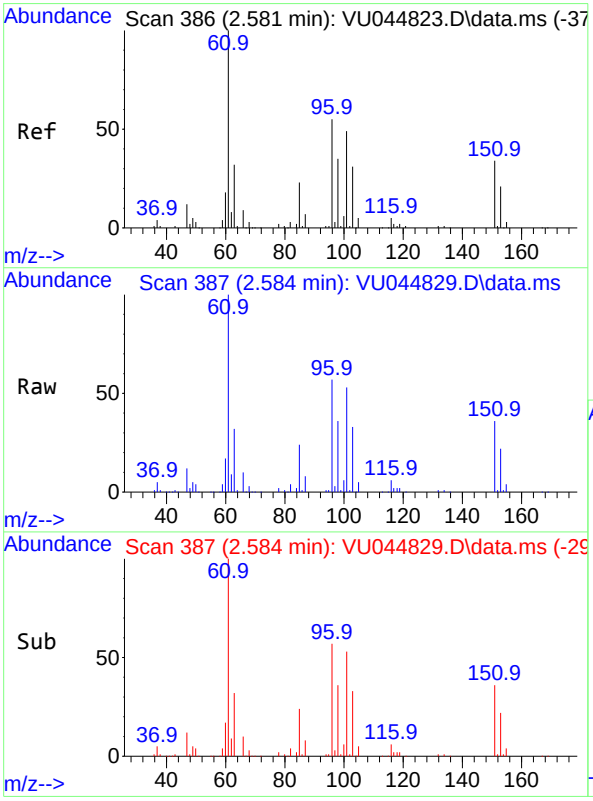


#11
Tert butyl alcohol
Concen: 203.166 ug/l
RT: 3.221 min Scan# 585
Delta R.T. 0.016 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 59 Resp: 164815

Ion	Ratio	Lower	Upper
59	100		
57	4.2	8.3	12.5#

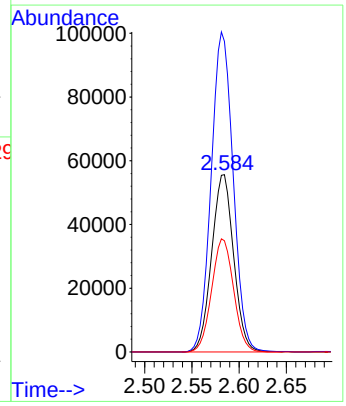




#12
1,1-Dichloroethene
Concen: 46.978 ug/l
RT: 2.584 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 96 Resp: 90079

Ion	Ratio	Lower	Upper
96	100		
61	175.2	145.4	218.0
98	62.8	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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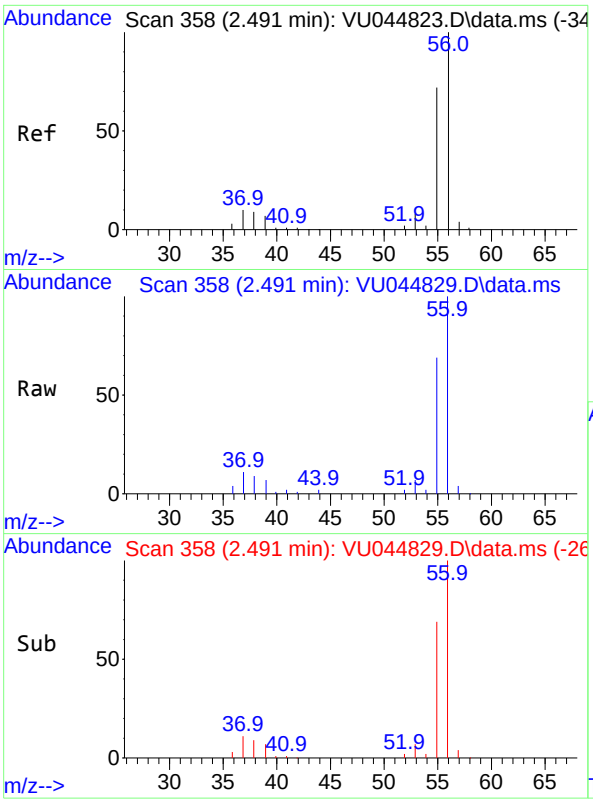
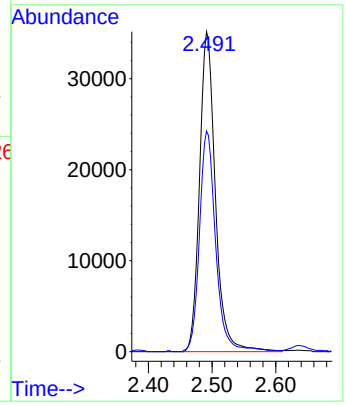
9/27/2021 11:02:55 AM

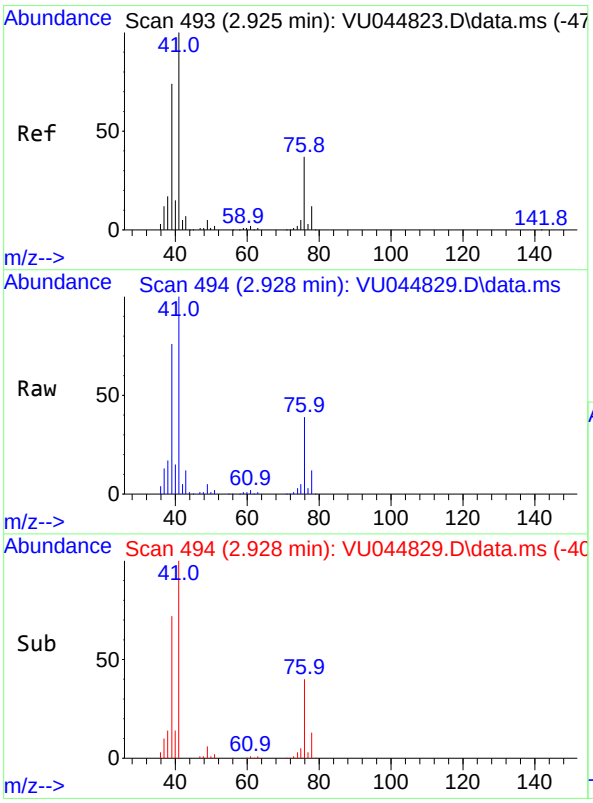


#13
Acrolein
Concen: 278.174 ug/l
RT: 2.491 min Scan# 358
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 56 Resp: 60939

Ion	Ratio	Lower	Upper
56	100		
55	69.5	57.4	86.0

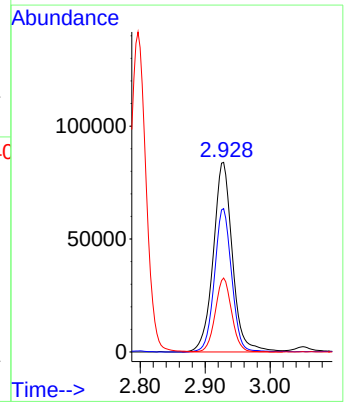




#14
Allyl chloride
Concen: 46.403 ug/l
RT: 2.928 min Scan# 494
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 41 Resp: 172702

Ion	Ratio	Lower	Upper
41	100		
39	67.5	53.0	79.6
76	33.2	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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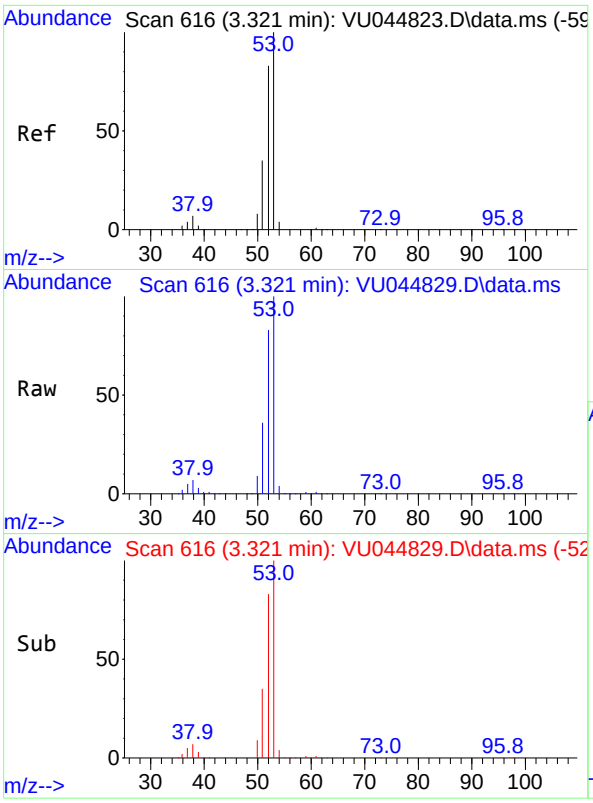
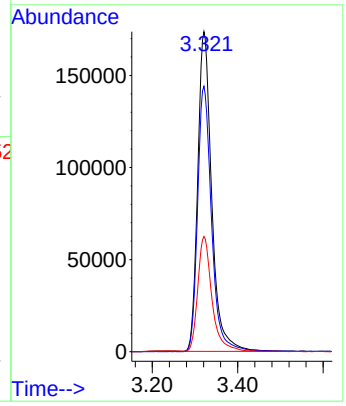
9/27/2021 11:02:55 AM

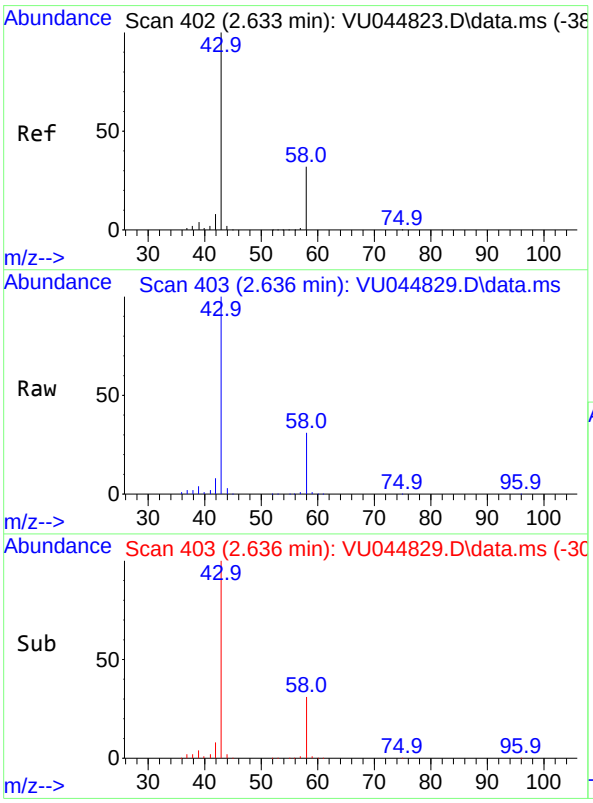


#15
Acrylonitrile
Concen: 232.916 ug/l
RT: 3.321 min Scan# 616
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 53 Resp: 394691

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.0	99.0
51	36.2	28.6	42.8

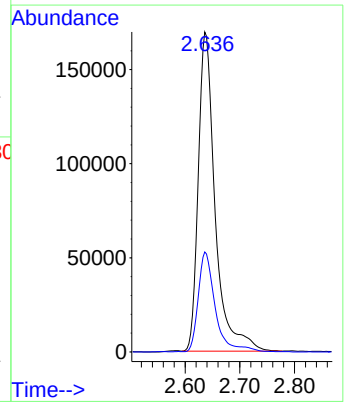




#16
Acetone
Concen: 231.691 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 363239

Ion	Ratio	Lower	Upper
43	100		
58	31.2	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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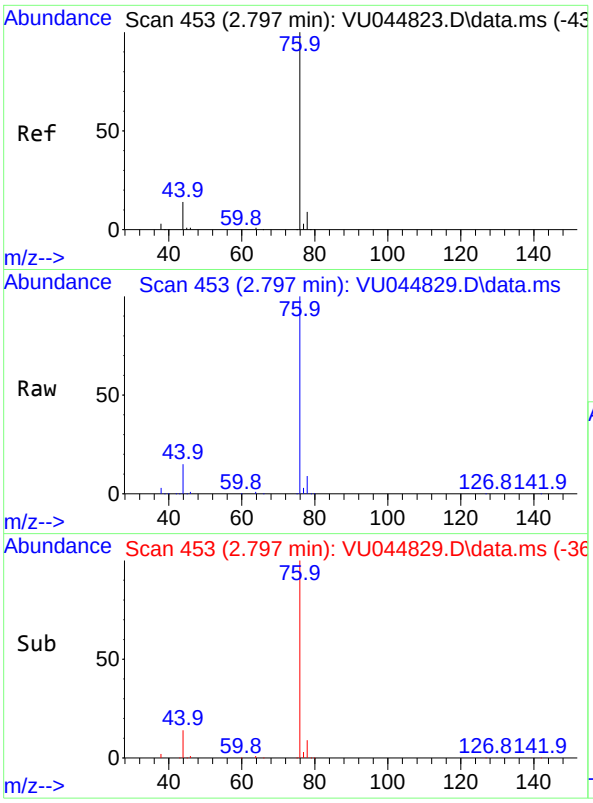
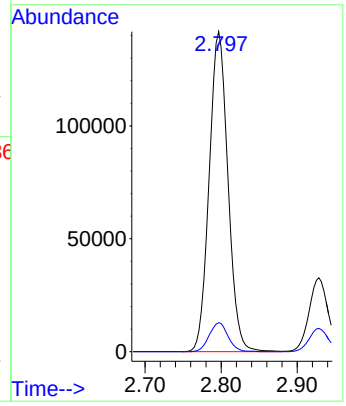
9/27/2021 11:02:55 AM

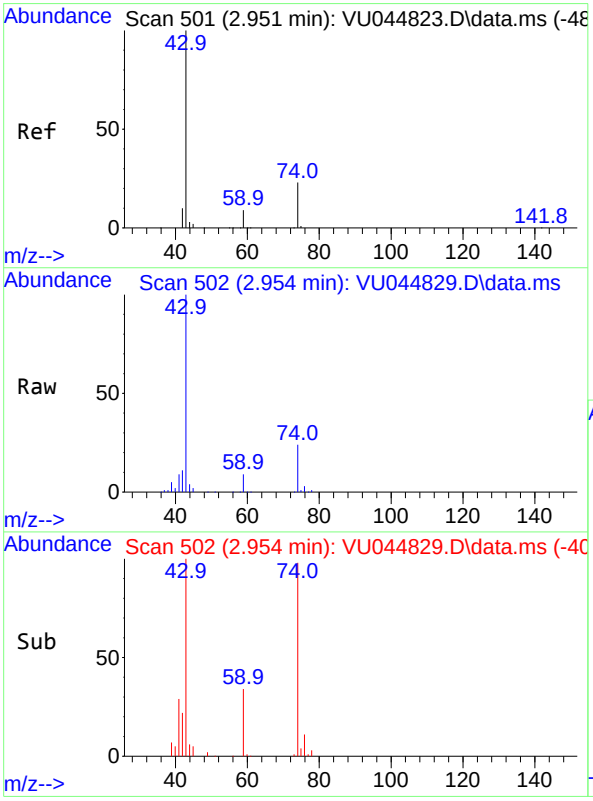


#17
Carbon Disulfide
Concen: 45.051 ug/l
RT: 2.797 min Scan# 453
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 76 Resp: 243010

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

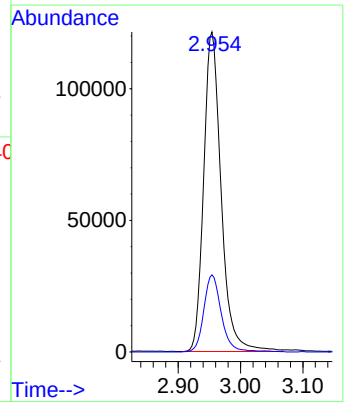




#18
Methyl Acetate
Concen: 45.144 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 236449

Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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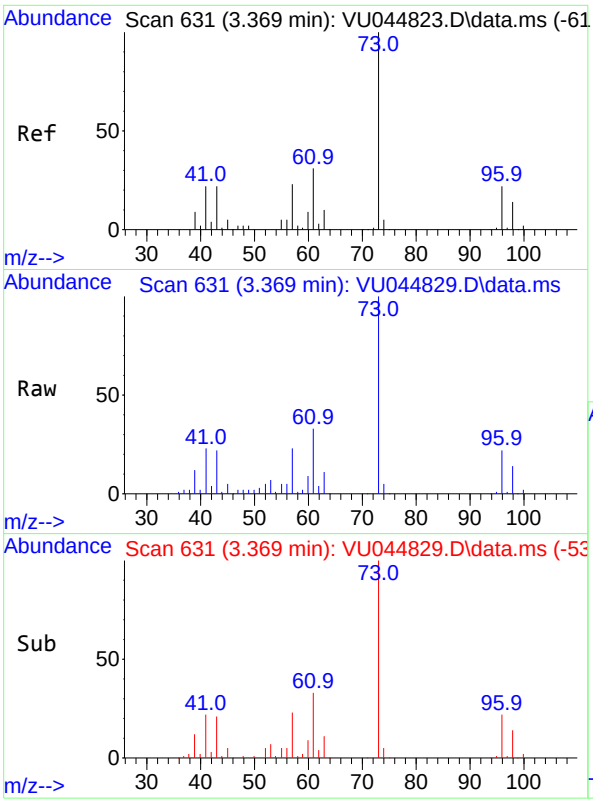
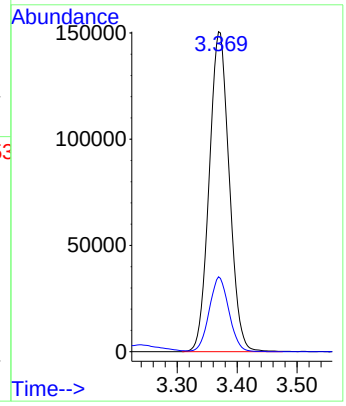
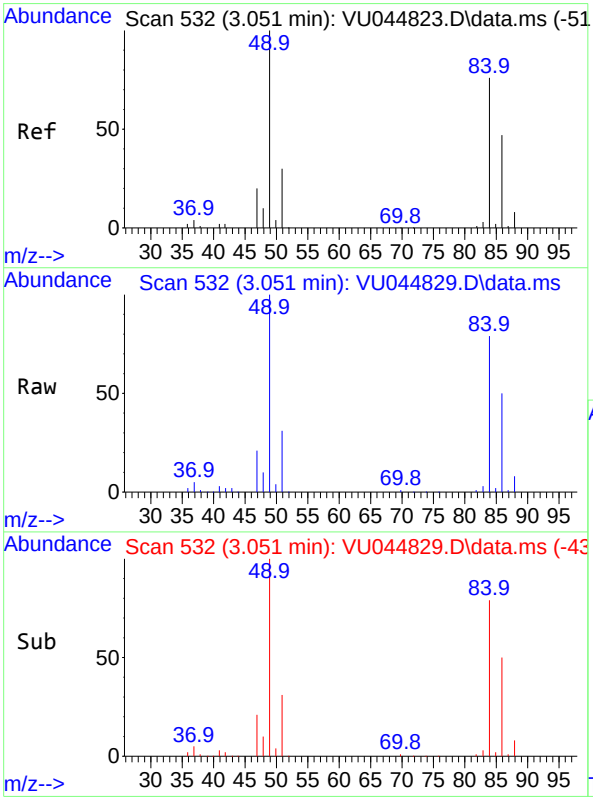


#19
Methyl tert-butyl Ether
Concen: 48.759 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 73 Resp: 349120

Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.2	27.2

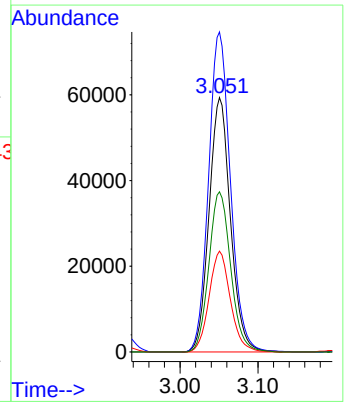




#20
Methylene Chloride
Concen: 44.690 ug/l
RT: 3.051 min Scan# 532
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 84 Resp: 113416

Ion	Ratio	Lower	Upper
84	100		
49	125.8	104.9	157.3
51	39.6	31.8	47.8
86	63.0	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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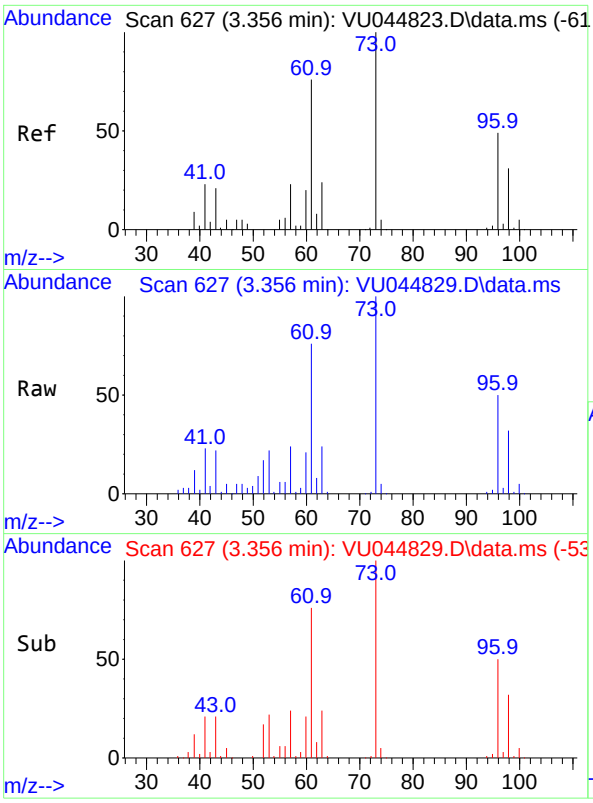
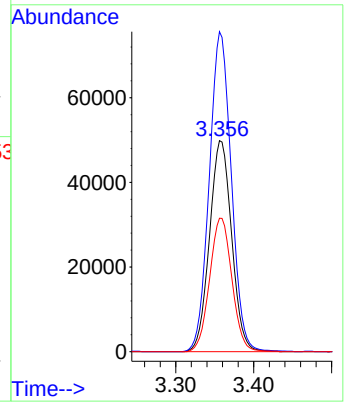
9/27/2021 11:02:55 AM

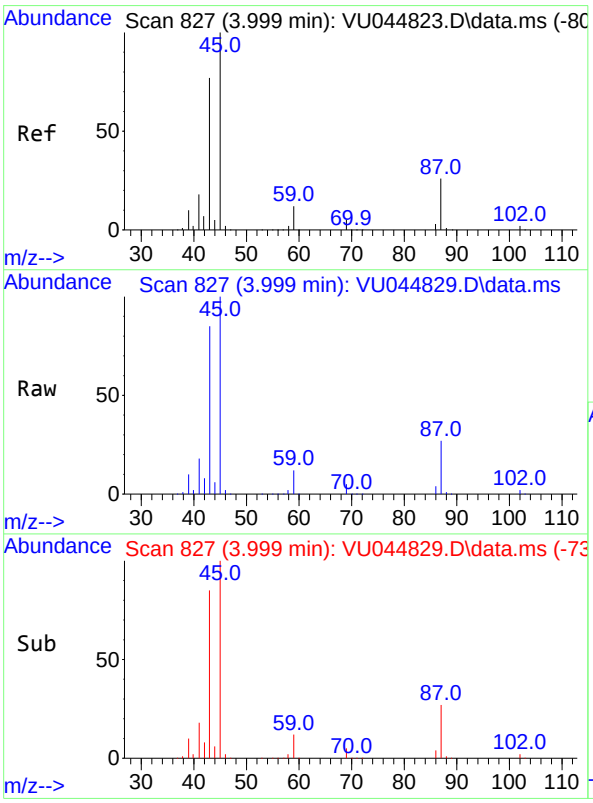


#21
trans-1,2-Dichloroethene
Concen: 47.991 ug/l
RT: 3.356 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 96 Resp: 98527

Ion	Ratio	Lower	Upper
96	100		
61	151.6	123.2	184.8
98	63.2	51.0	76.6

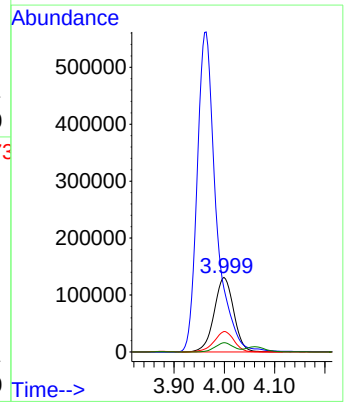




#22
Diisopropyl ether
Concen: 48.123 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 45 Resp: 353874

Ion	Ratio	Lower	Upper
45	100		
43	84.3	62.3	93.5
87	27.4	21.0	31.4
59	12.5	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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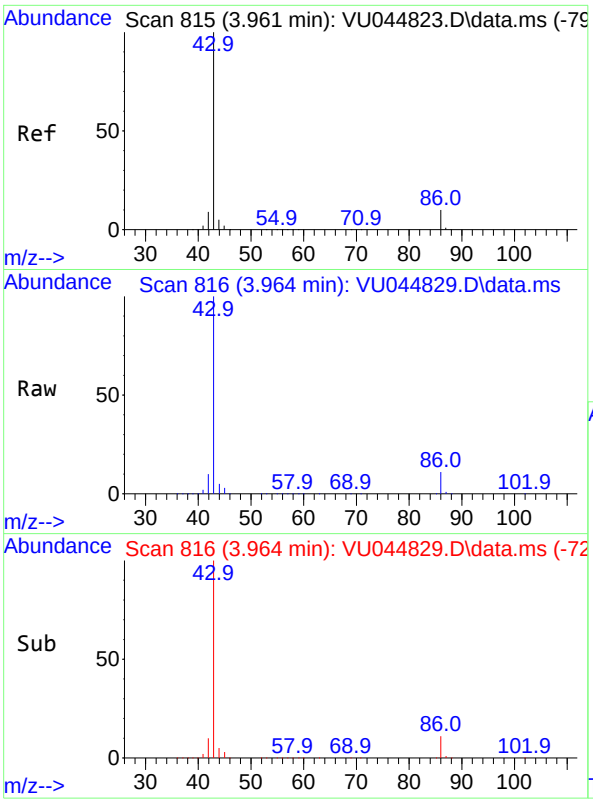
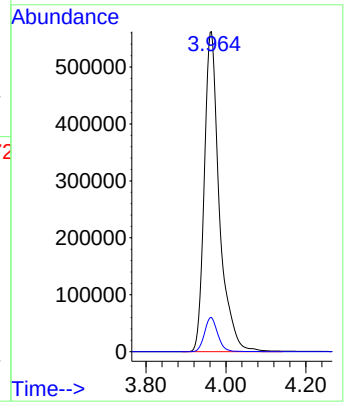
9/27/2021 11:02:55 AM

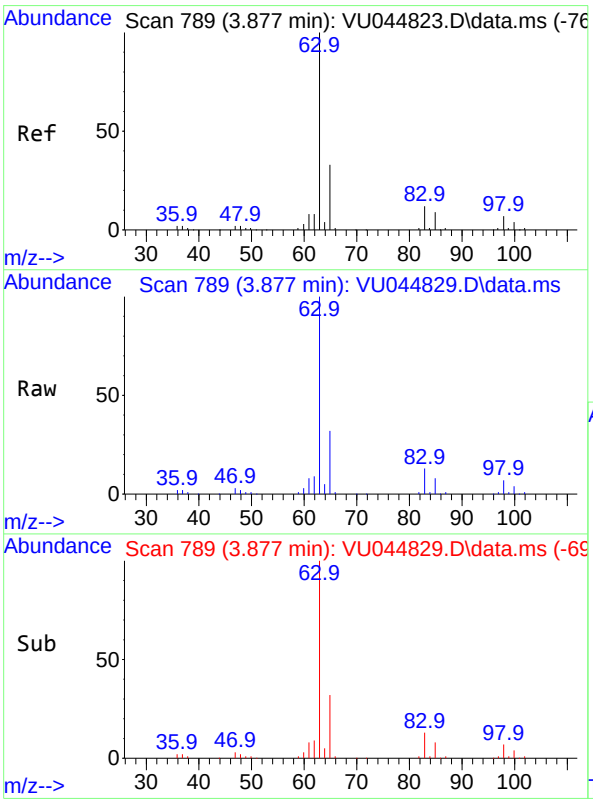


#23
Vinyl Acetate
Concen: 244.210 ug/l
RT: 3.964 min Scan# 816
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 1472661

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.4

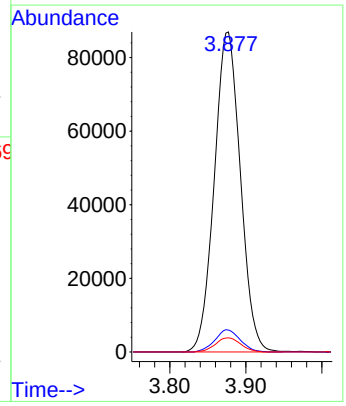




#24
1,1-Dichloroethane
Concen: 48.501 ug/l
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 63 Resp: 207014

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.4
100	4.4	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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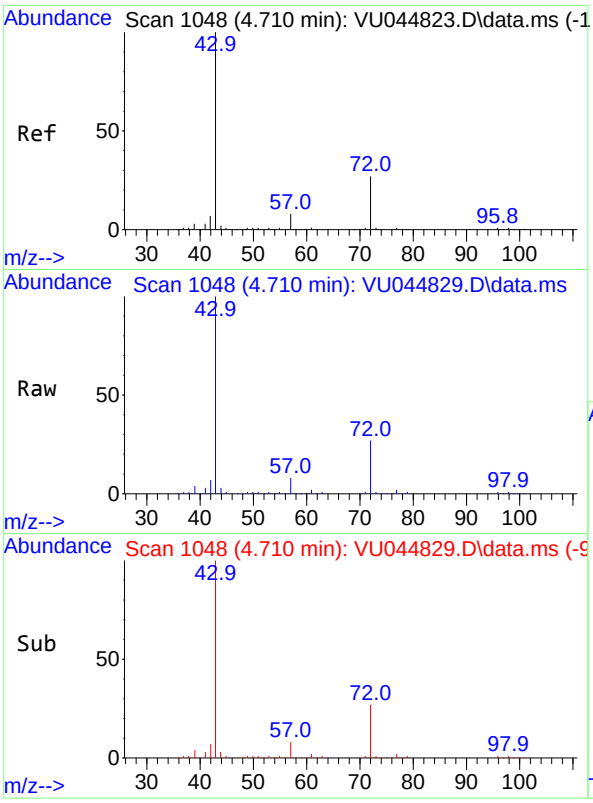
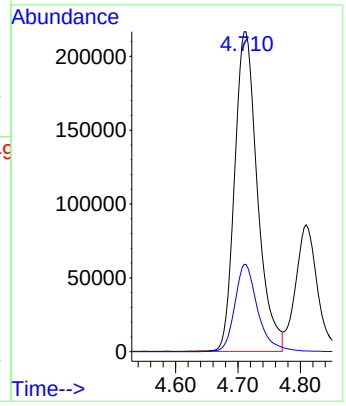
9/27/2021 11:02:55 AM

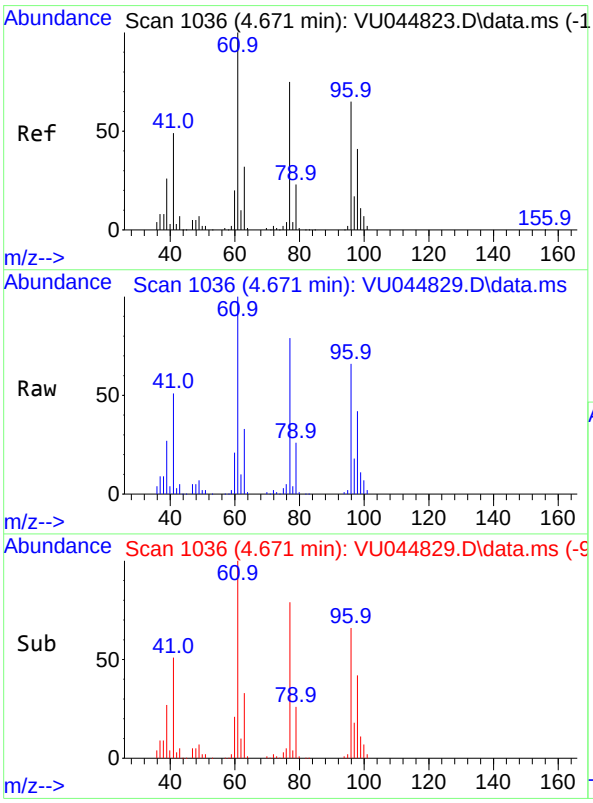


#25
2-Butanone
Concen: 230.863 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 549175

Ion	Ratio	Lower	Upper
43	100		
72	27.3	21.3	31.9

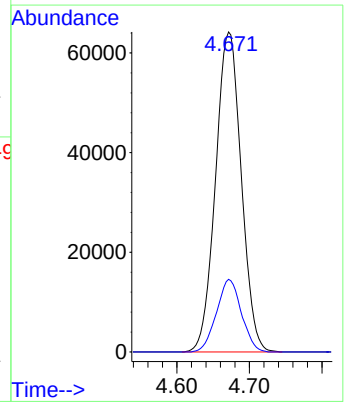




#26
2,2-Dichloropropane
Concen: 49.354 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 77 Resp: 157974

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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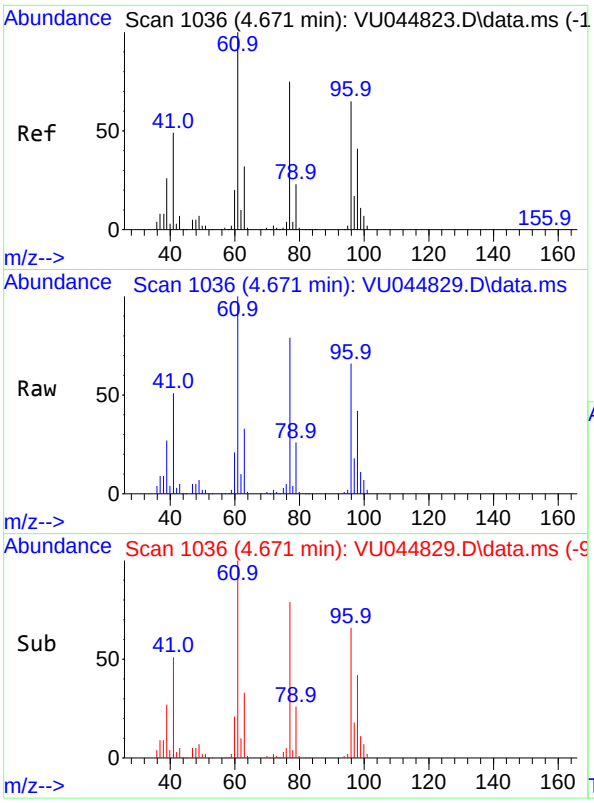
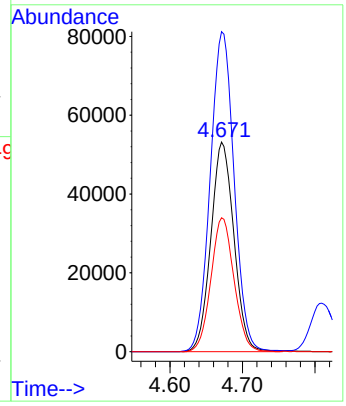
9/27/2021 11:02:55 AM

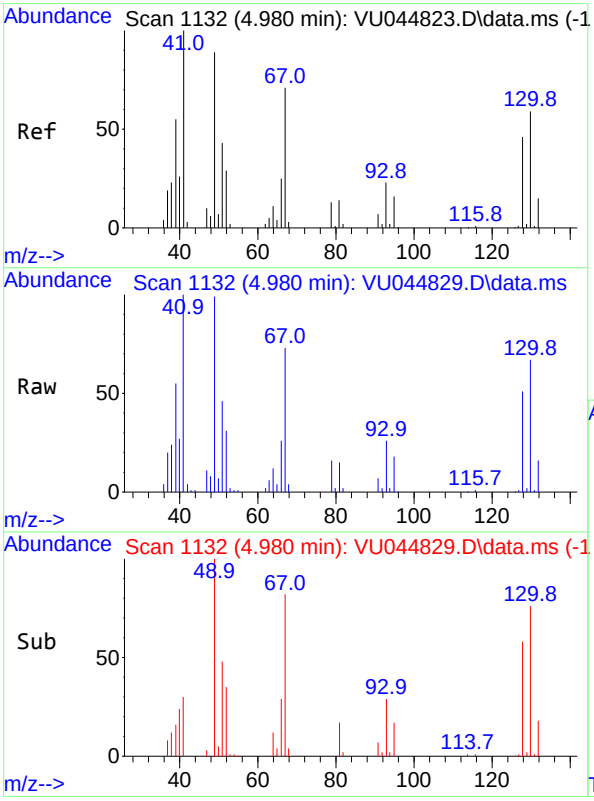


#27
cis-1,2-Dichloroethene
Concen: 47.088 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 96 Resp: 117575

Ion	Ratio	Lower	Upper
96	100		
61	158.0	0.0	313.4
98	64.0	0.0	127.0

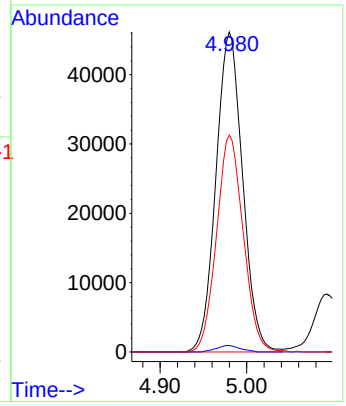




#28
Bromochloromethane
Concen: 48.630 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 49 Resp: 98637

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	67.8	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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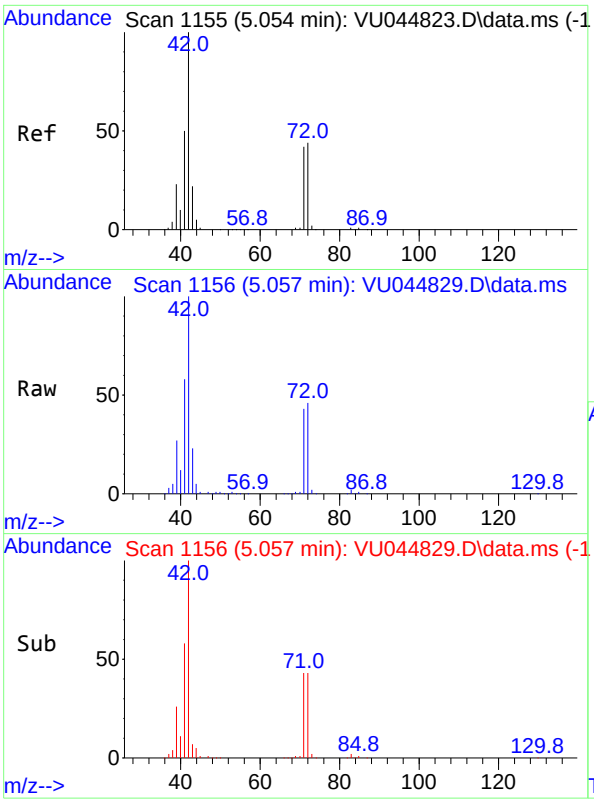
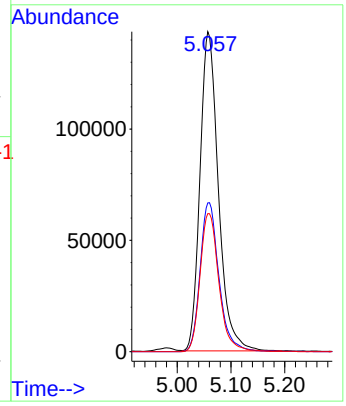
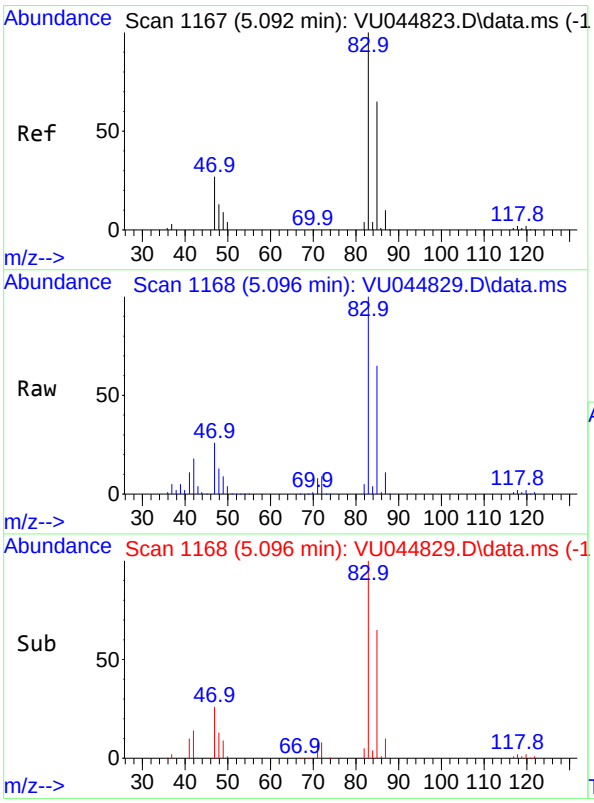


#29
Tetrahydrofuran
Concen: 227.876 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 42 Resp: 341027

Ion	Ratio	Lower	Upper
42	100		
72	47.8	36.2	54.4
71	44.3	34.1	51.1

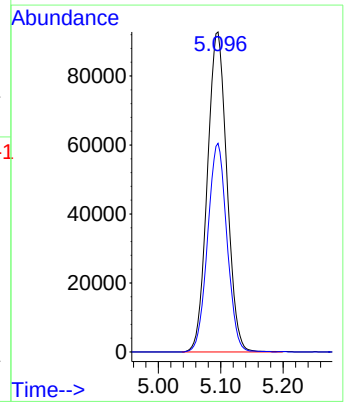




#30
Chloroform
Concen: 47.002 ug/l
RT: 5.096 min Scan# 1168
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 83 Resp: 201717

Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.1	78.1



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ClientSampleId :
VSTDCCC050

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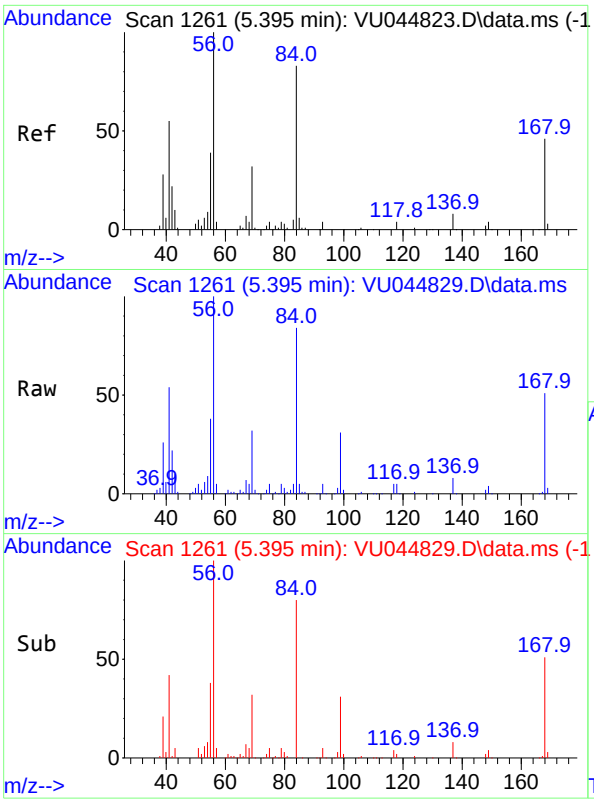
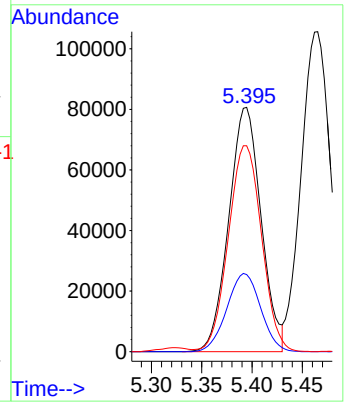
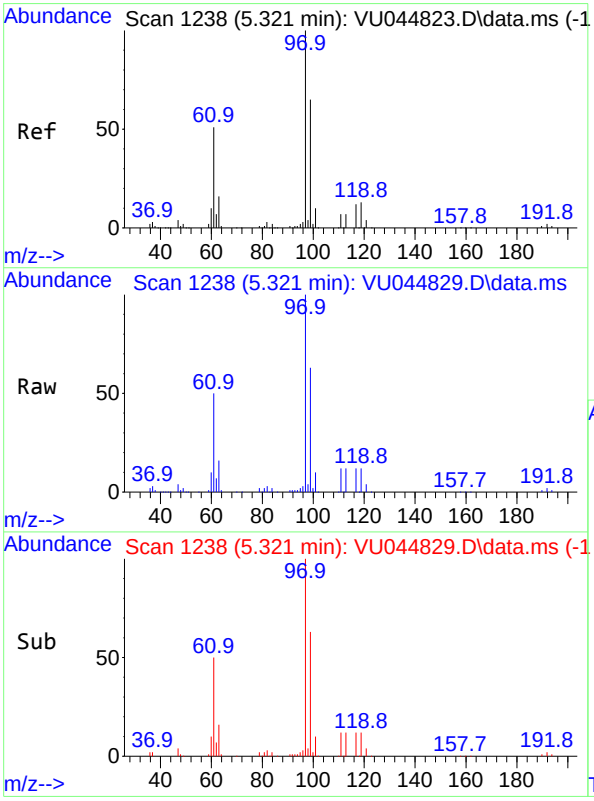


#31
Cyclohexane
Concen: 45.267 ug/l
RT: 5.395 min Scan# 1261
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 56 Resp: 180632

Ion	Ratio	Lower	Upper
56	100		
69	31.6	25.2	37.8
84	82.9	66.4	99.6

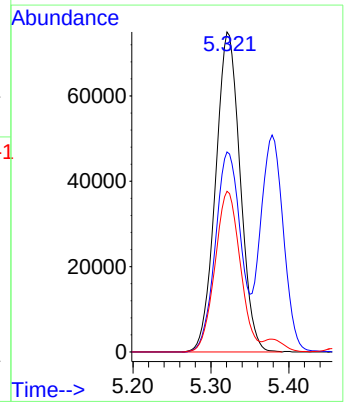




#32
1,1,1-Trichloroethane
Concen: 47.388 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 97 Resp: 164320

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.9	76.3
61	52.0	40.7	61.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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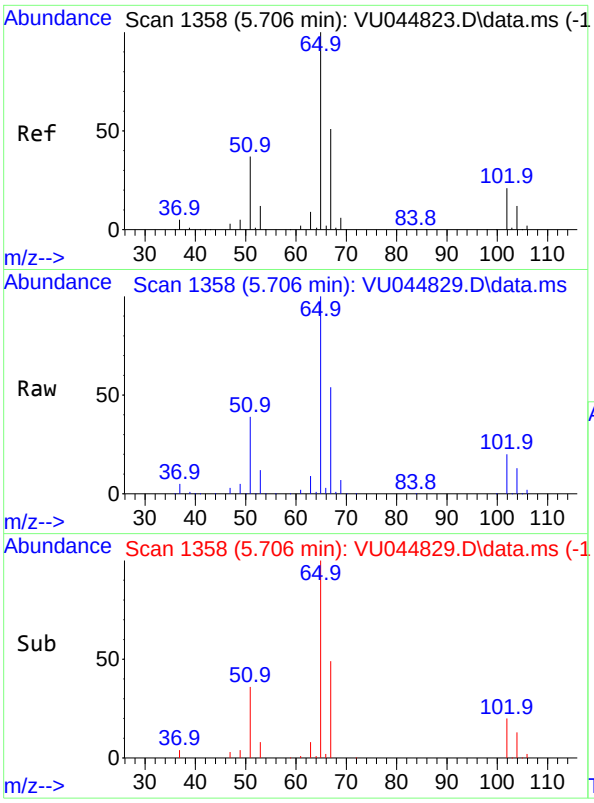
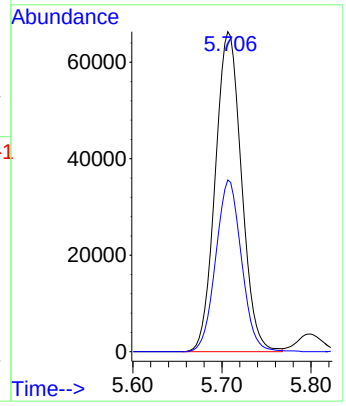
9/27/2021 11:02:55 AM

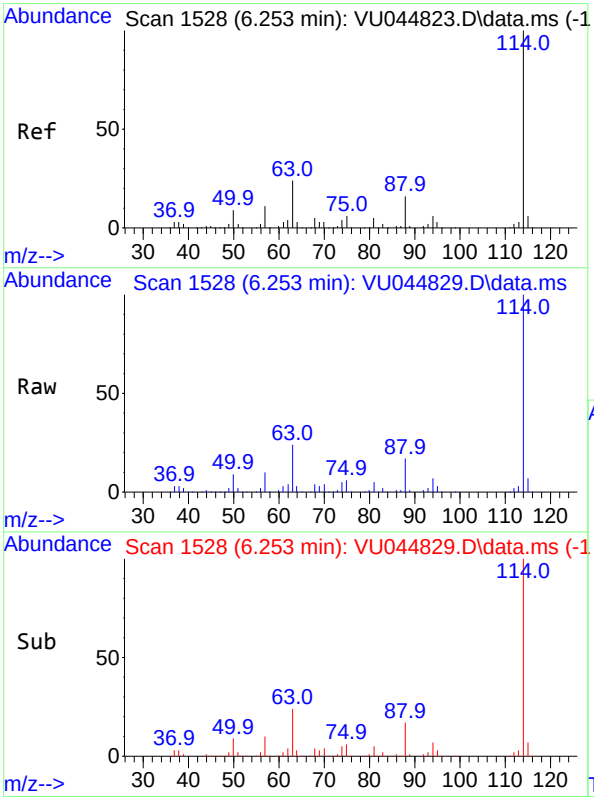


#33
1,2-Dichloroethane-d4
Concen: 48.838 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 65 Resp: 135740

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	104.8

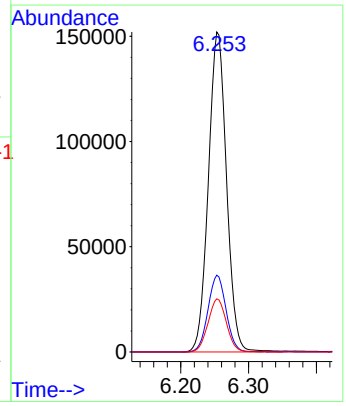




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:114 Resp: 282895

Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	47.8
88	16.6	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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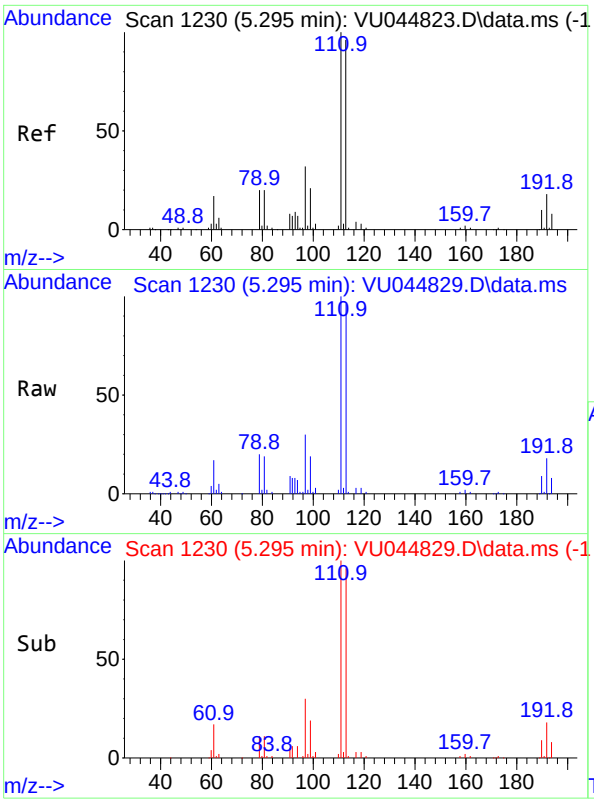
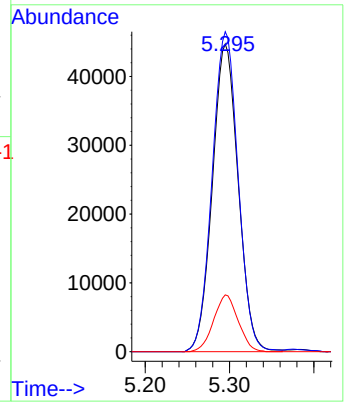
9/27/2021 11:02:55 AM

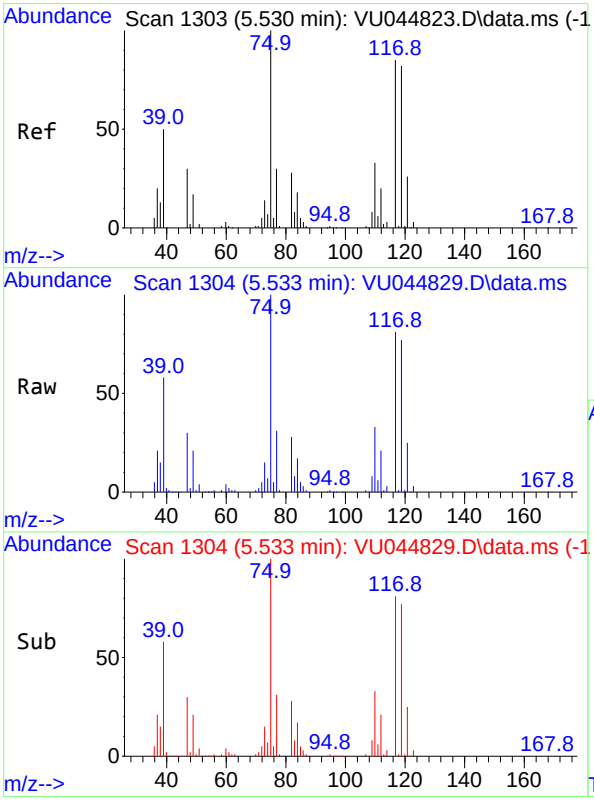


#35
Dibromofluoromethane
Concen: 49.045 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:113 Resp: 95182

Ion	Ratio	Lower	Upper
113	100		
111	104.3	84.1	126.1
192	17.5	14.8	22.2

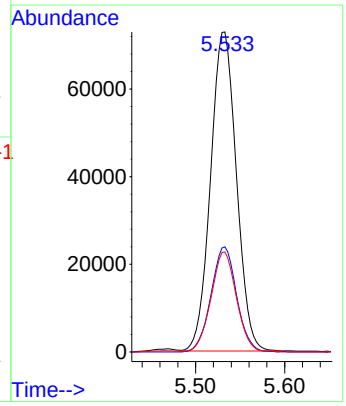




#36
1,1-Dichloropropene
Concen: 48.802 ug/l
RT: 5.533 min Scan# 1304
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 75 Resp: 146483

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.3	48.9
77	31.0	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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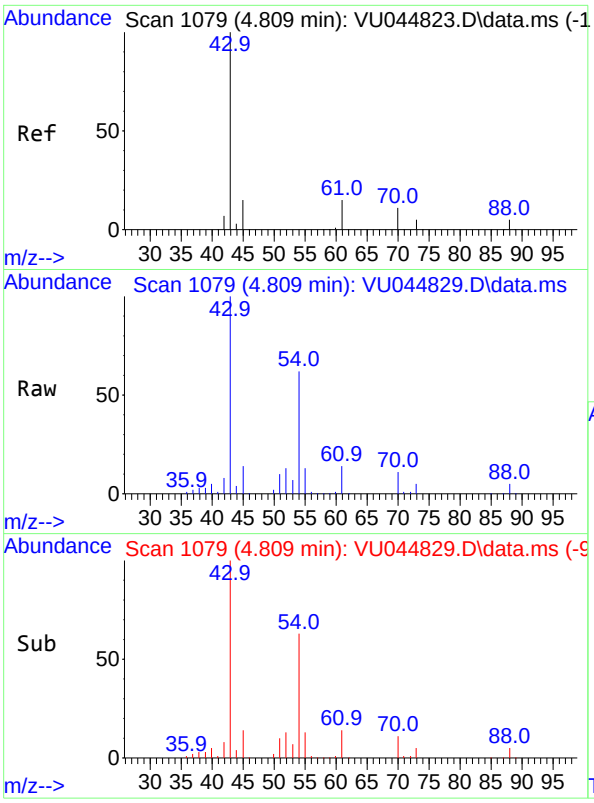
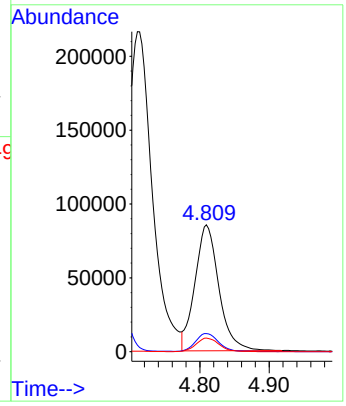
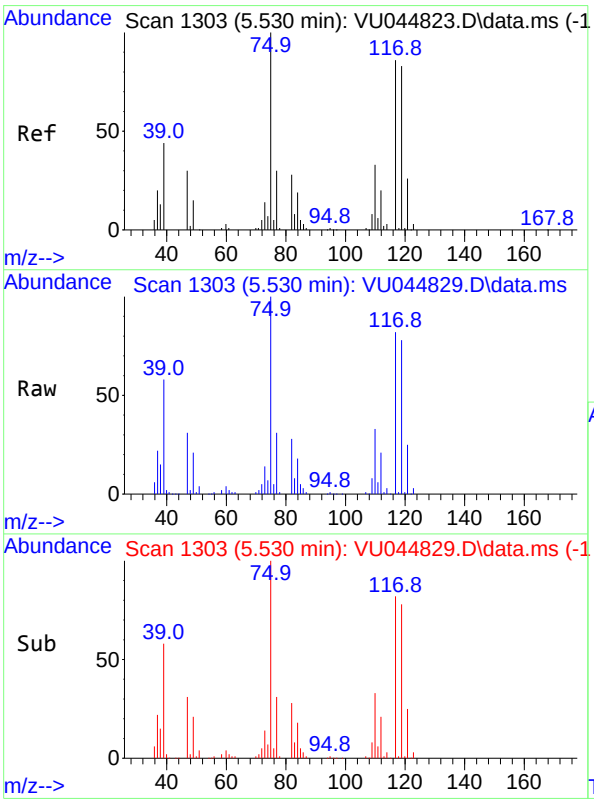


#37
Ethyl Acetate
Concen: 46.411 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 204404

Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.9	16.3
70	10.5	8.2	12.4

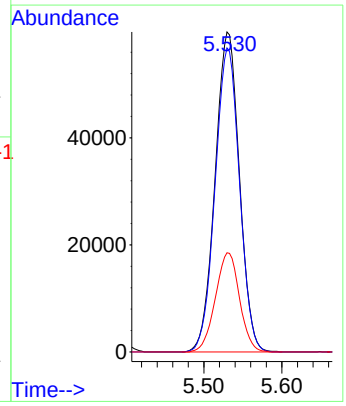




#38
Carbon Tetrachloride
Concen: 48.214 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:117 Resp: 129378

Ion	Ratio	Lower	Upper
117	100		
119	95.0	77.4	116.2
121	31.0	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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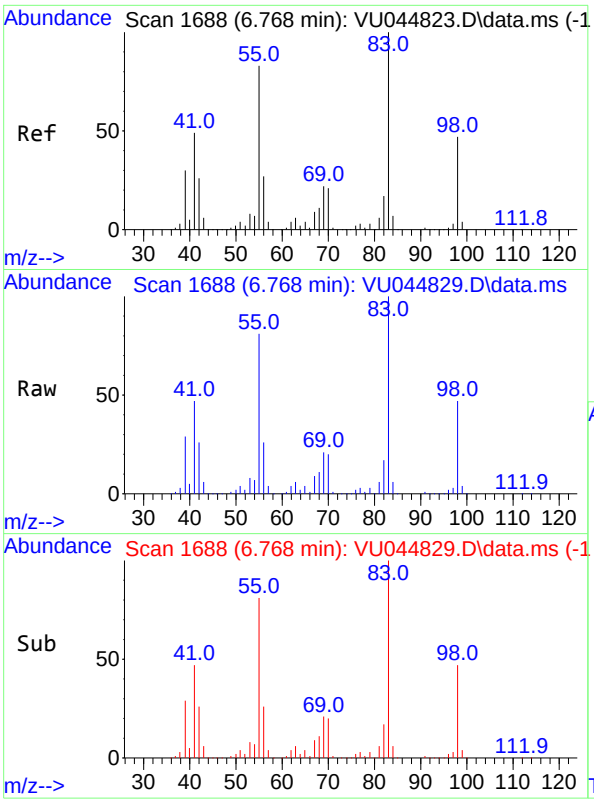
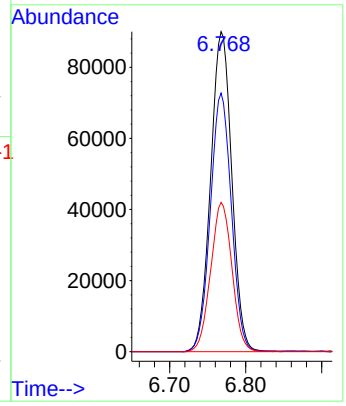
9/27/2021 11:02:55 AM

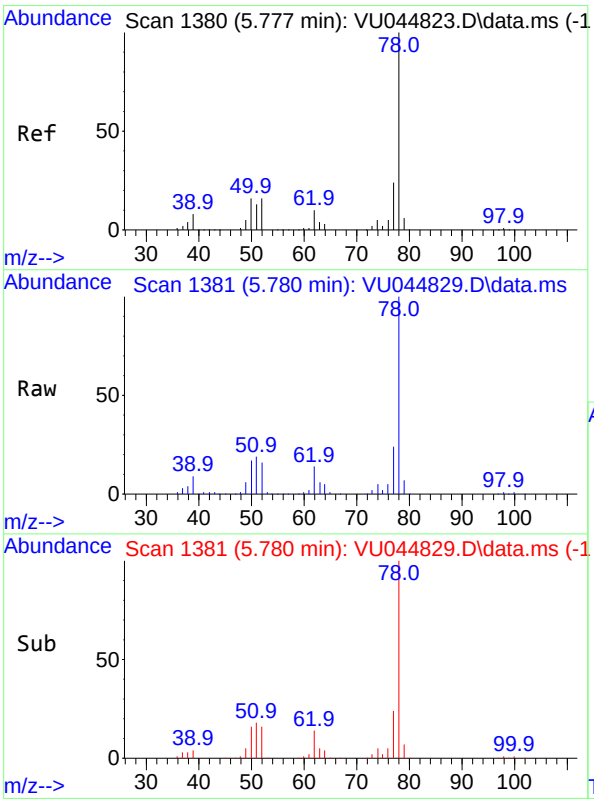


#39
Methylcyclohexane
Concen: 51.341 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 83 Resp: 174293

Ion	Ratio	Lower	Upper
83	100		
55	80.8	66.2	99.4
98	46.6	37.5	56.3

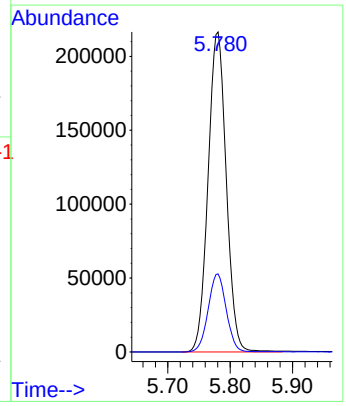




#40
Benzene
Concen: 47.953 ug/l
RT: 5.780 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 78 Resp: 438827

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.1	28.7



Instrument :
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ClientSampleId :
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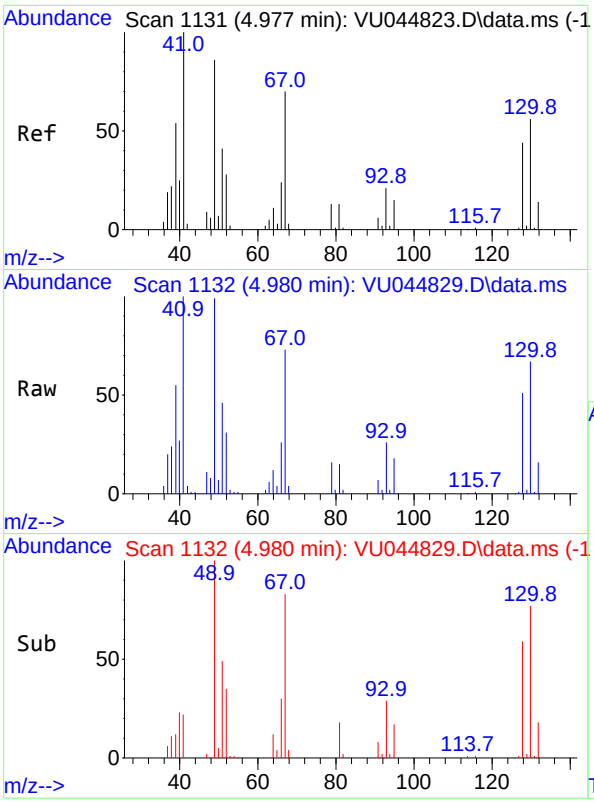
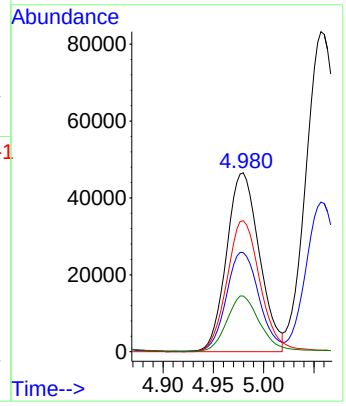
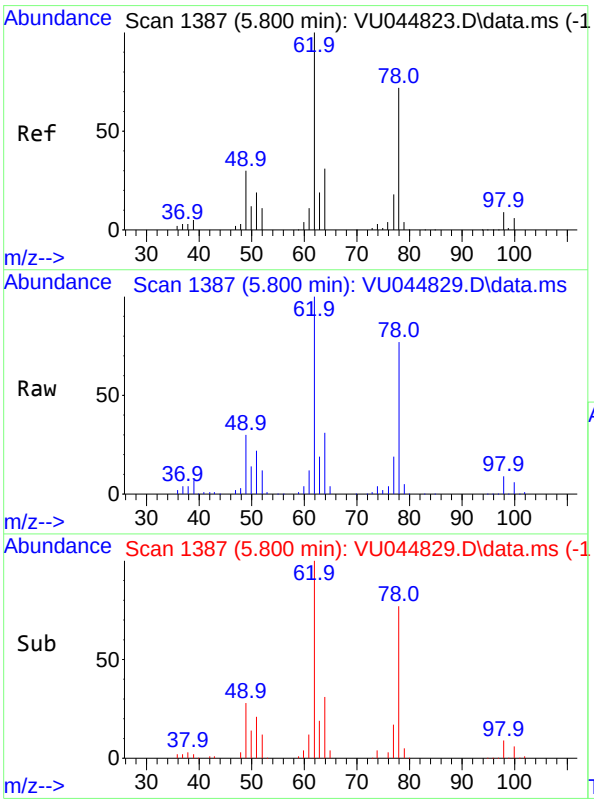


#41
Methacrylonitrile
Concen: 48.192 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 41 Resp: 105942

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.4	66.6
67	74.7	58.1	87.1
52	31.2	23.8	35.8

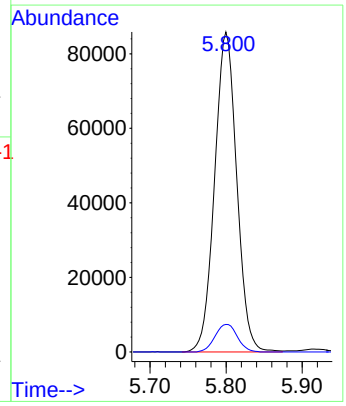




#42
1,2-Dichloroethane
Concen: 48.196 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 62 Resp: 173516

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.8



Instrument :
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ClientSampleId :
VSTDCCC050

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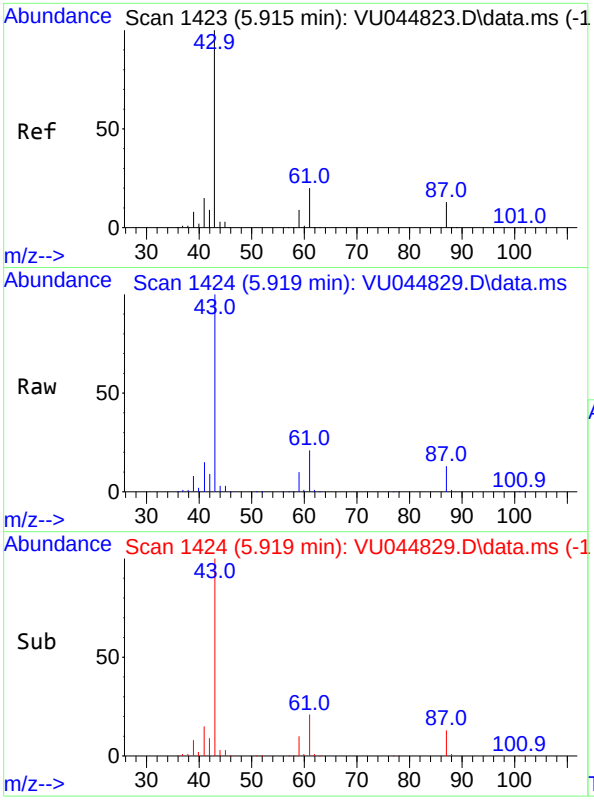
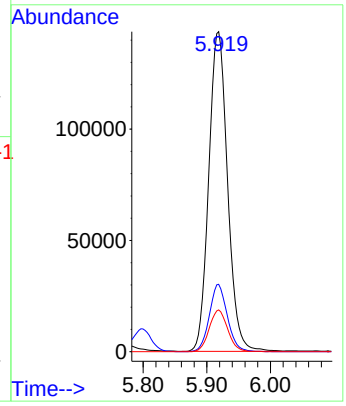
9/27/2021 11:02:55 AM

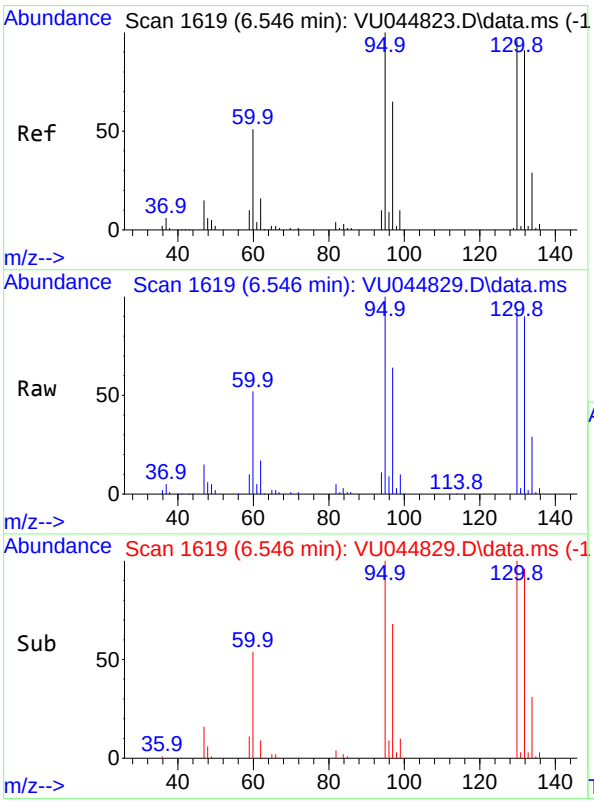


#43
Isopropyl Acetate
Concen: 47.885 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 295051

Ion	Ratio	Lower	Upper
43	100		
61	20.1	16.1	24.1
87	12.8	10.3	15.5

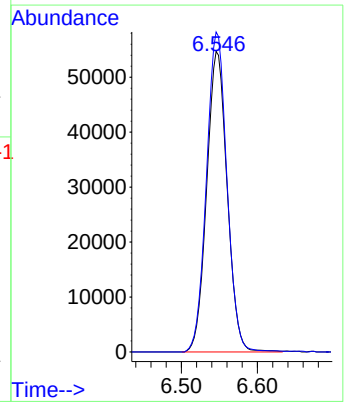




#44
Trichloroethene
Concen: 46.559 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:130 Resp: 102402

Ion	Ratio	Lower	Upper
130	100		
95	106.5	0.0	209.0



Instrument :
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ClientSampleId :
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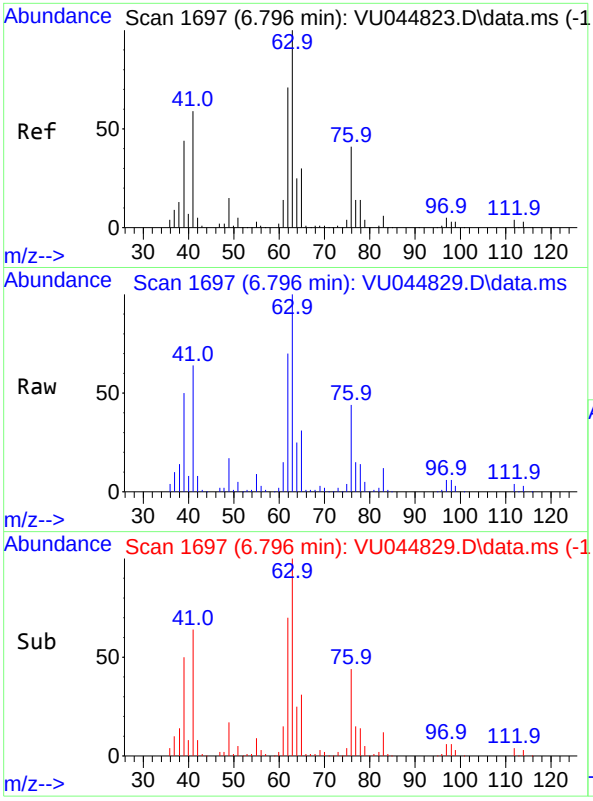
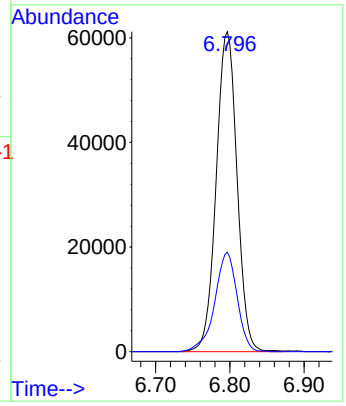
9/27/2021 11:02:55 AM

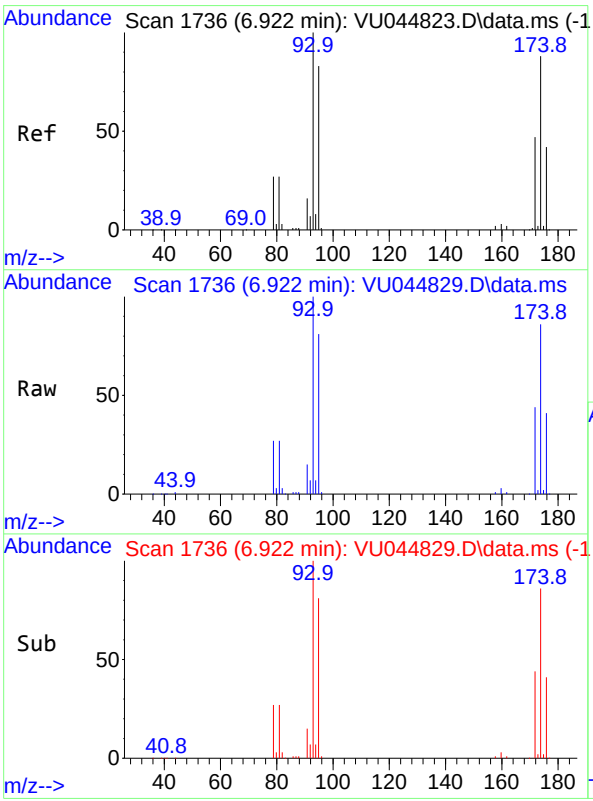


#45
1,2-Dichloropropane
Concen: 48.152 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 63 Resp: 119257

Ion	Ratio	Lower	Upper
63	100		
65	31.1	23.9	35.9

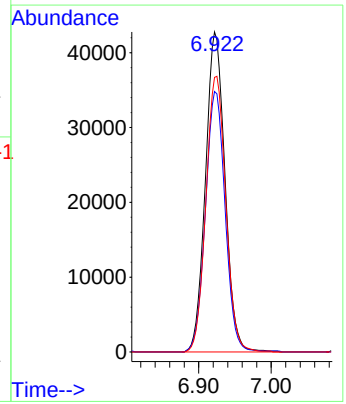




#46
Dibromomethane
Concen: 48.673 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 93 Resp: 79877

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.6	98.4
174	87.7	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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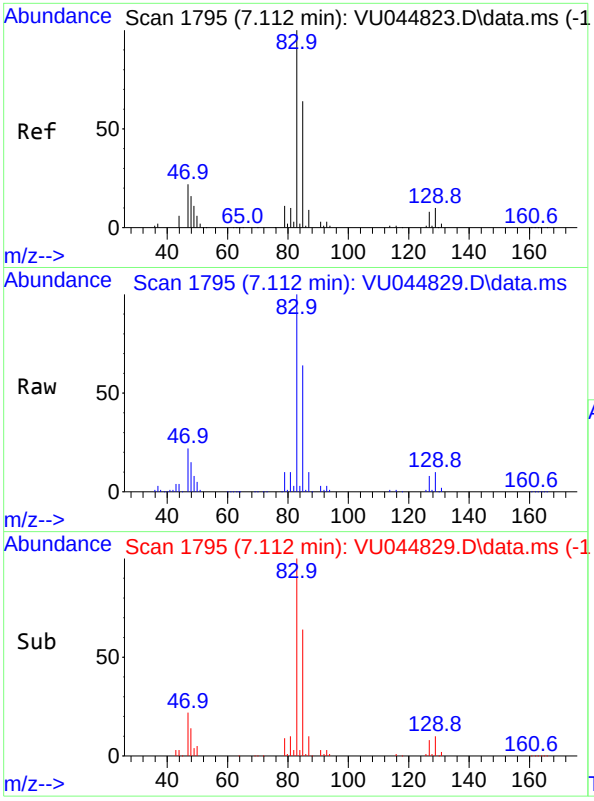
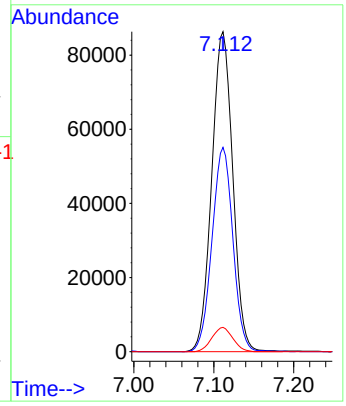
9/27/2021 11:02:55 AM

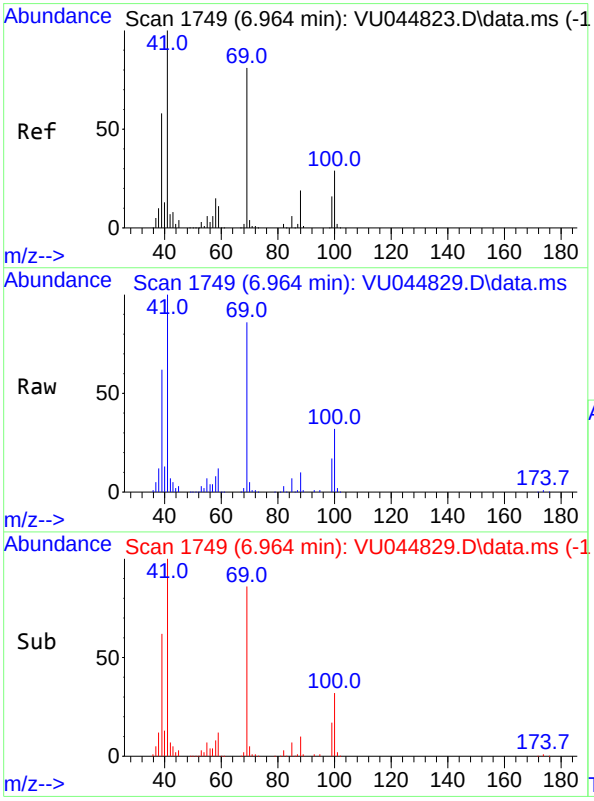


#47
Bromodichloromethane
Concen: 48.631 ug/l
RT: 7.112 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 83 Resp: 157426

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.6	77.4
127	7.6	6.2	9.4

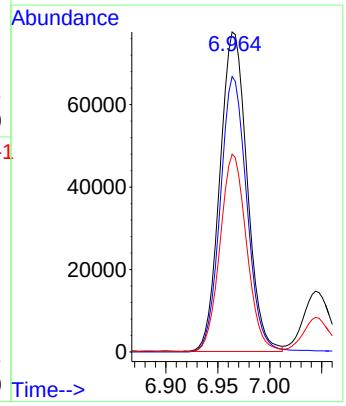




#48
Methyl methacrylate
Concen: 48.449 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 41 Resp: 140903

Ion	Ratio	Lower	Upper
41	100		
69	84.9	65.6	98.4
39	60.3	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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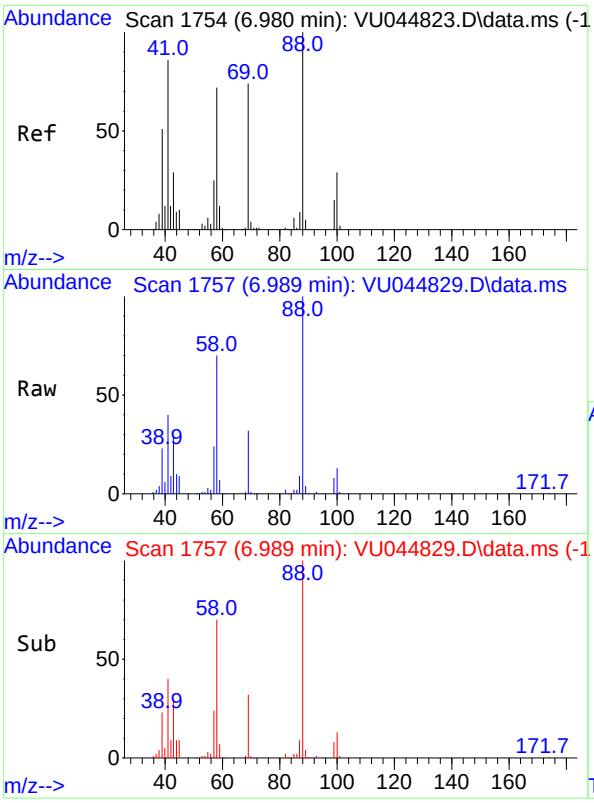
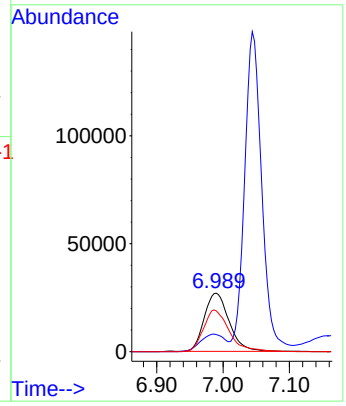
9/27/2021 11:02:55 AM

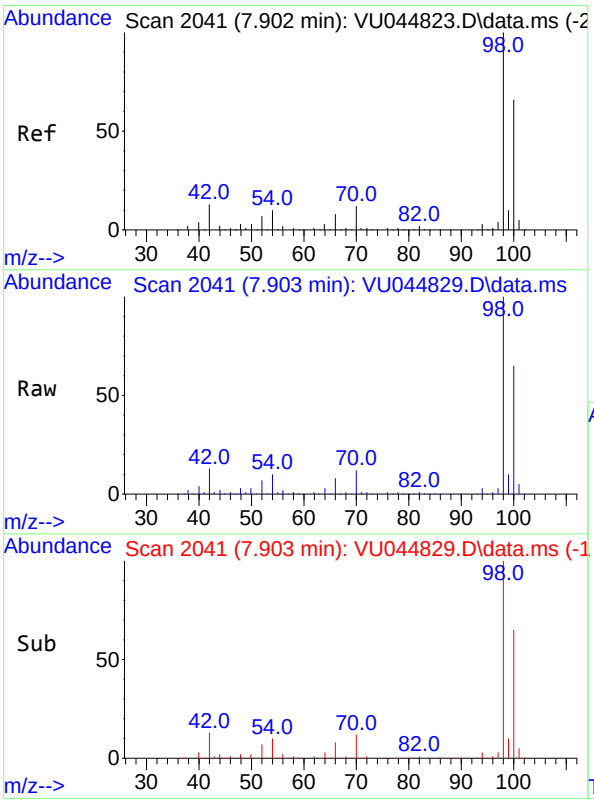


#49
1,4-Dioxane
Concen: 942.607 ug/l
RT: 6.989 min Scan# 1757
Delta R.T. 0.010 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 88 Resp: 70062

Ion	Ratio	Lower	Upper
88	100		
43	29.6	25.8	38.6
58	74.7	61.3	91.9

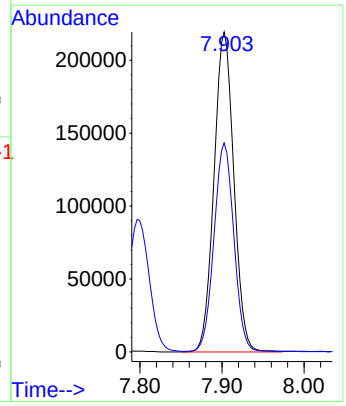




#50
Toluene-d8
Concen: 50.384 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 98 Resp: 369293

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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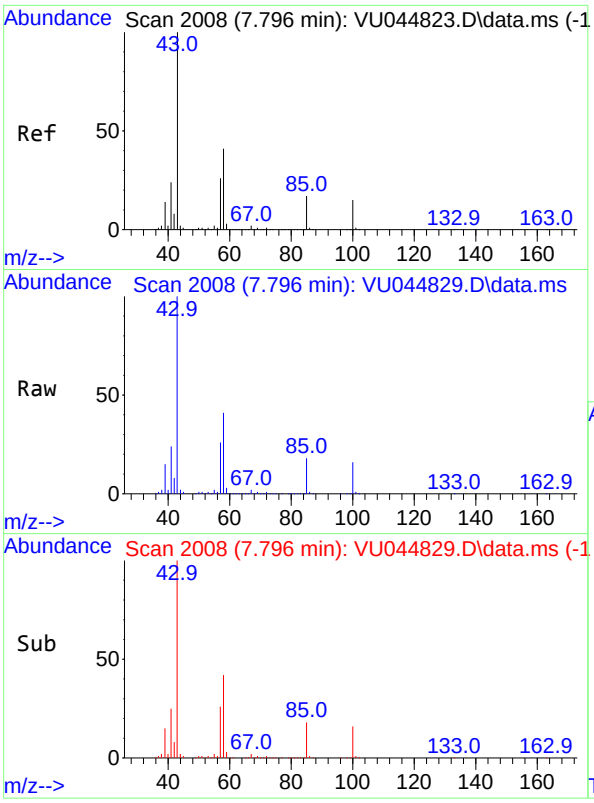
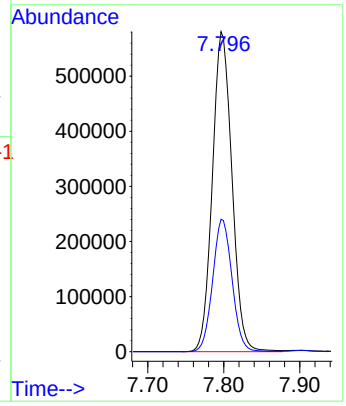
9/27/2021 11:02:55 AM

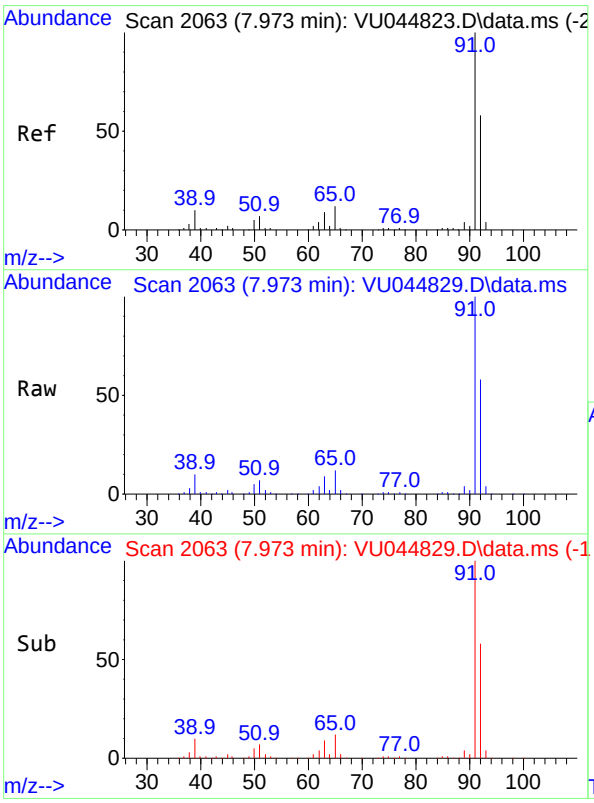


#51
4-Methyl-2-Pentanone
Concen: 236.667 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 1039300

Ion	Ratio	Lower	Upper
43	100		
58	40.9	32.4	48.6

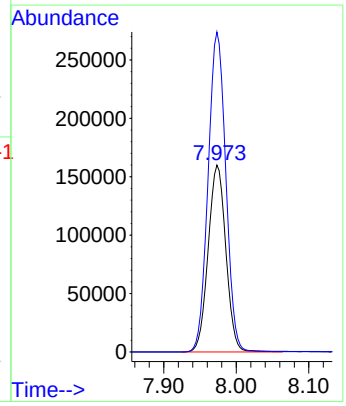




#52
Toluene
Concen: 49.602 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 92 Resp: 271386

Ion	Ratio	Lower	Upper
92	100		
91	171.4	136.9	205.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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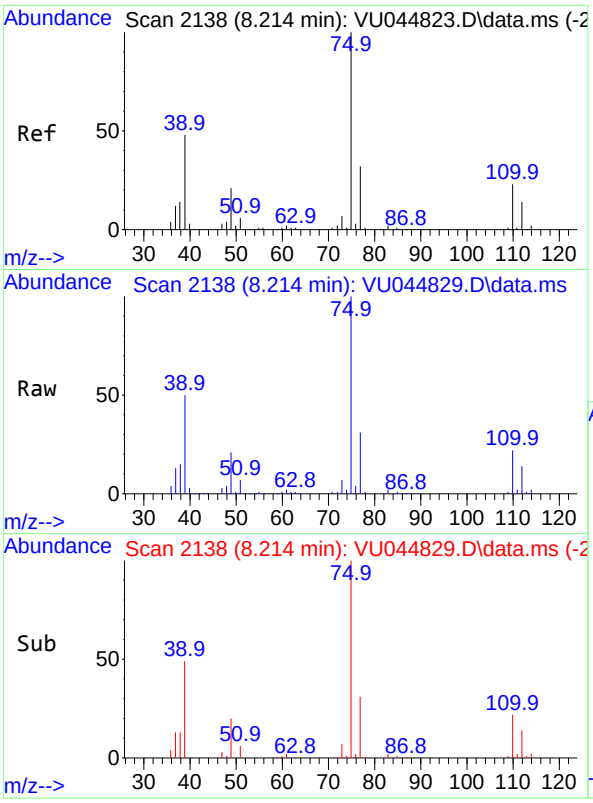
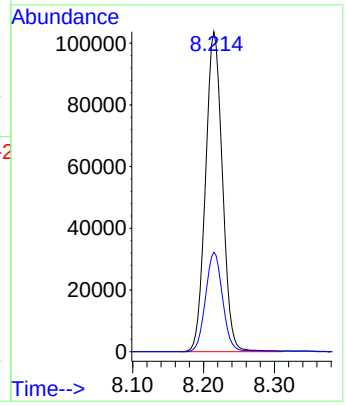
9/27/2021 11:02:55 AM

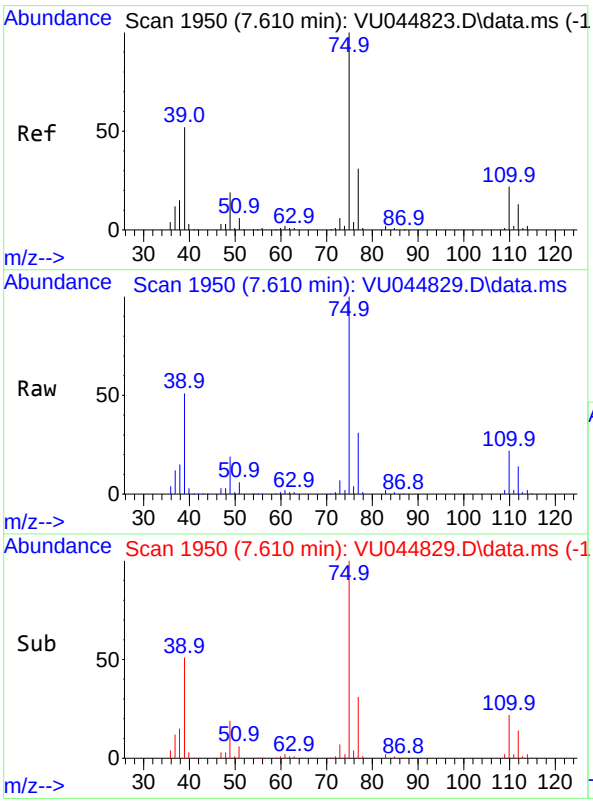


#53
t-1,3-Dichloropropene
Concen: 50.858 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 75 Resp: 171522

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.6	38.4

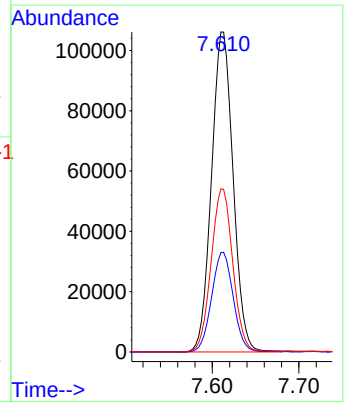




#54
cis-1,3-Dichloropropene
Concen: 50.342 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 75 Resp: 183870

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6
39	51.0	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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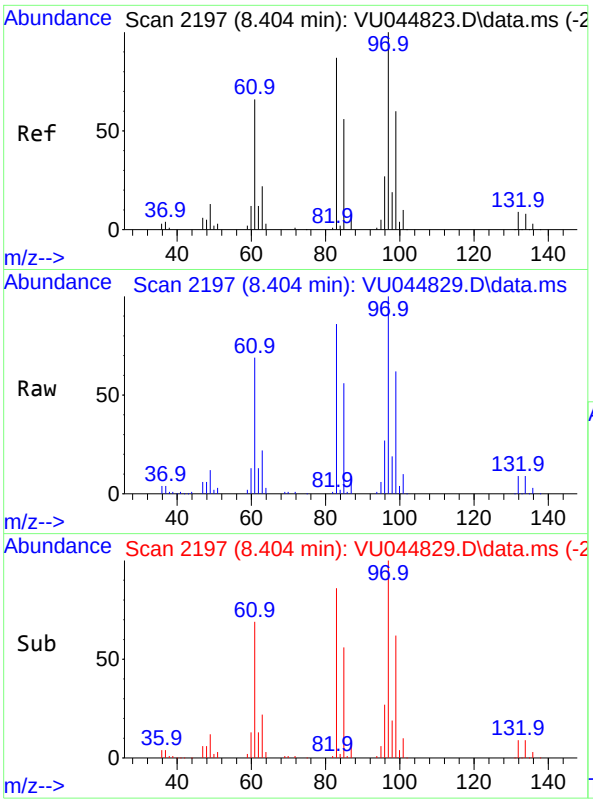
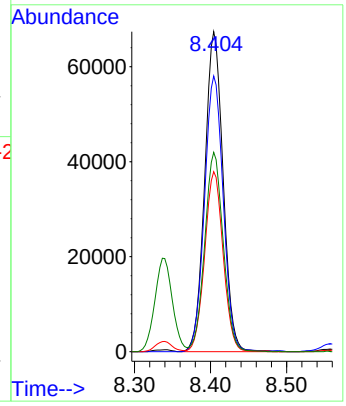
9/27/2021 11:02:55 AM

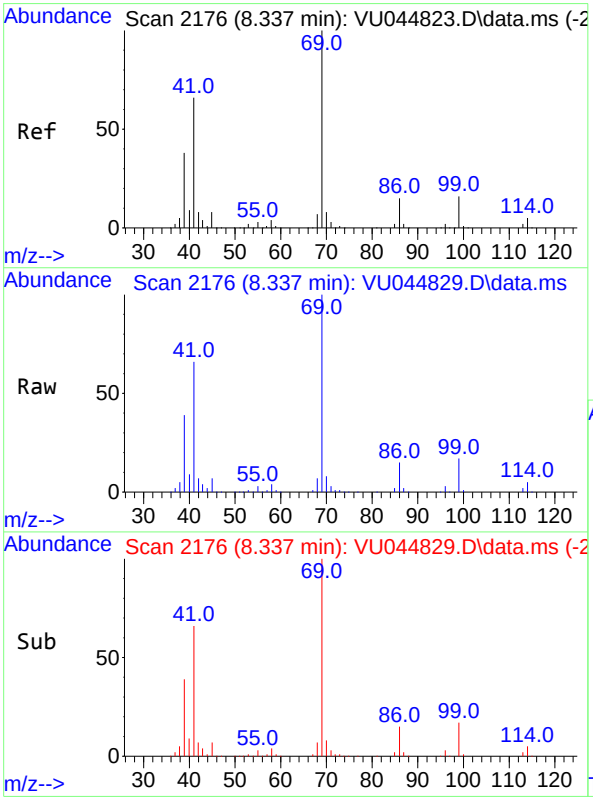


#55
1,1,2-Trichloroethane
Concen: 48.366 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 97 Resp: 113137

Ion	Ratio	Lower	Upper
97	100		
83	86.2	69.7	104.5
85	56.2	44.8	67.2
99	62.3	49.3	73.9

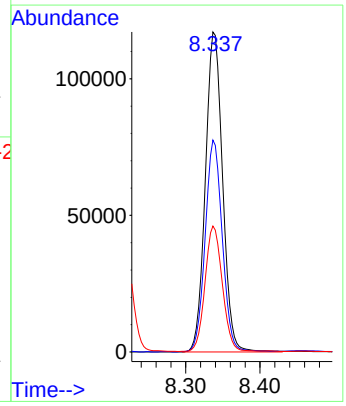




#56
Ethyl methacrylate
Concen: 45.495 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. -0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 69 Resp: 188830

Ion	Ratio	Lower	Upper
69	100		
41	66.1	53.5	80.3
39	39.1	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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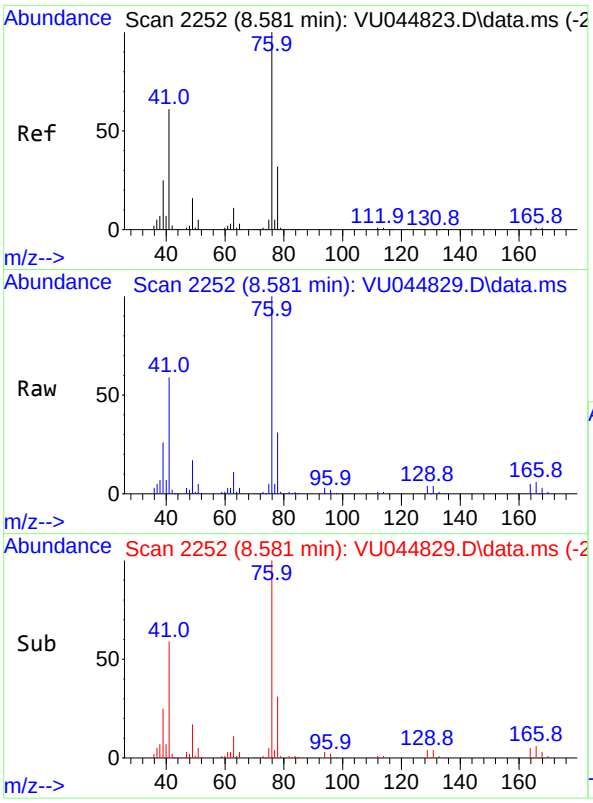
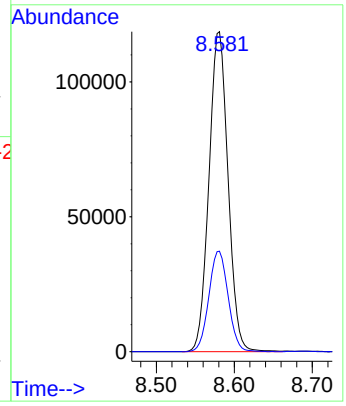
9/27/2021 11:02:55 AM

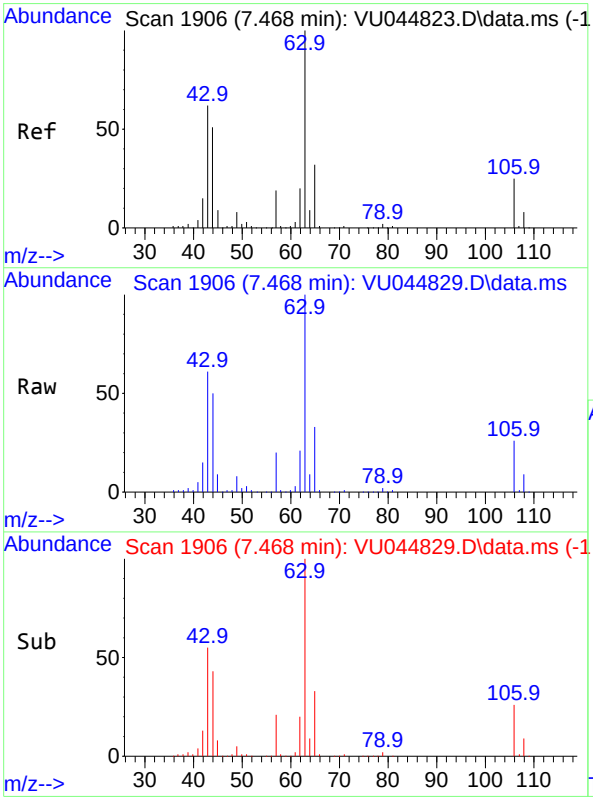


#57
1,3-Dichloropropane
Concen: 48.480 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 76 Resp: 201934

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.7	38.5

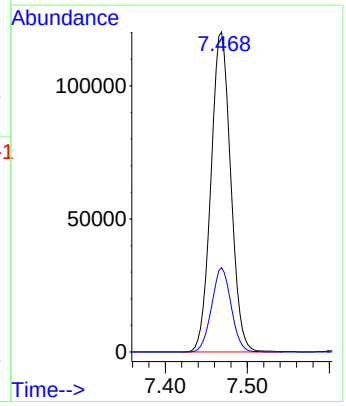




#58
2-Chloroethyl Vinyl ether
Concen: 205.359 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 63 Resp: 201256

Ion	Ratio	Lower	Upper
63	100		
106	25.9	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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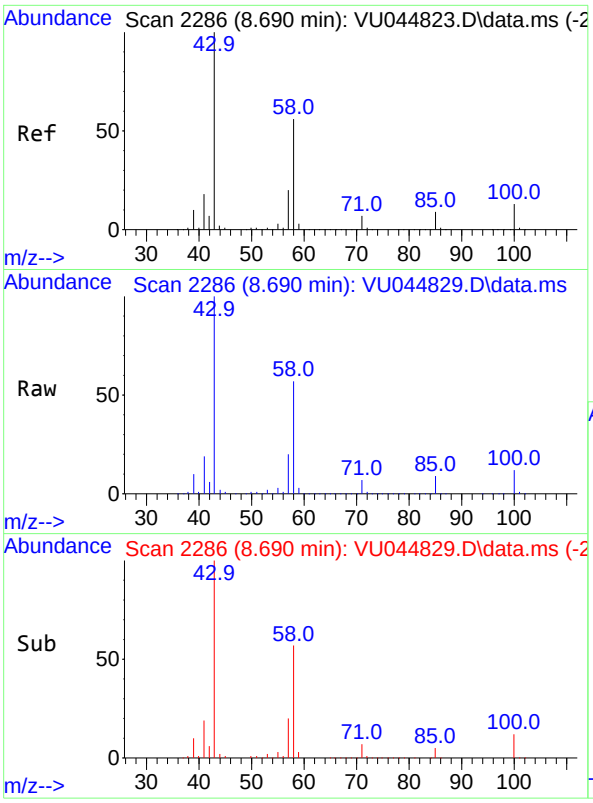
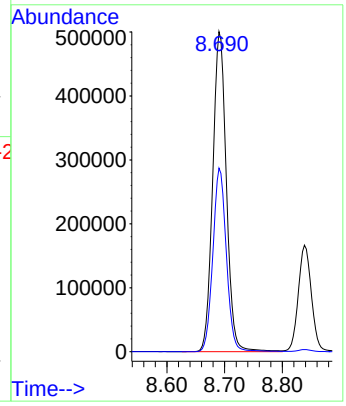
9/27/2021 11:02:55 AM

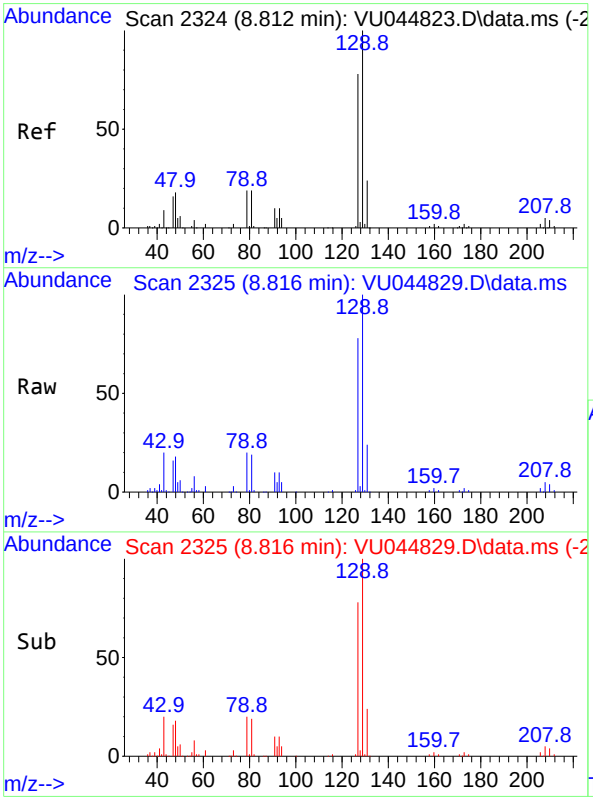


#59
2-Hexanone
Concen: 233.419 ug/l
RT: 8.690 min Scan# 2286
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 822781

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.0	84.0

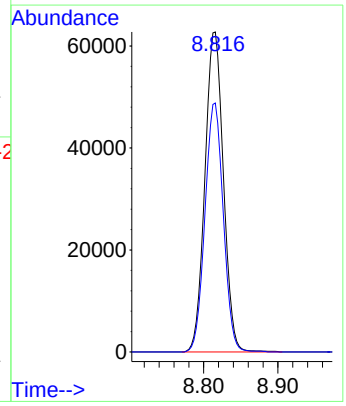




#60
Dibromochloromethane
Concen: 48.414 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:129 Resp: 108450

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.0	117.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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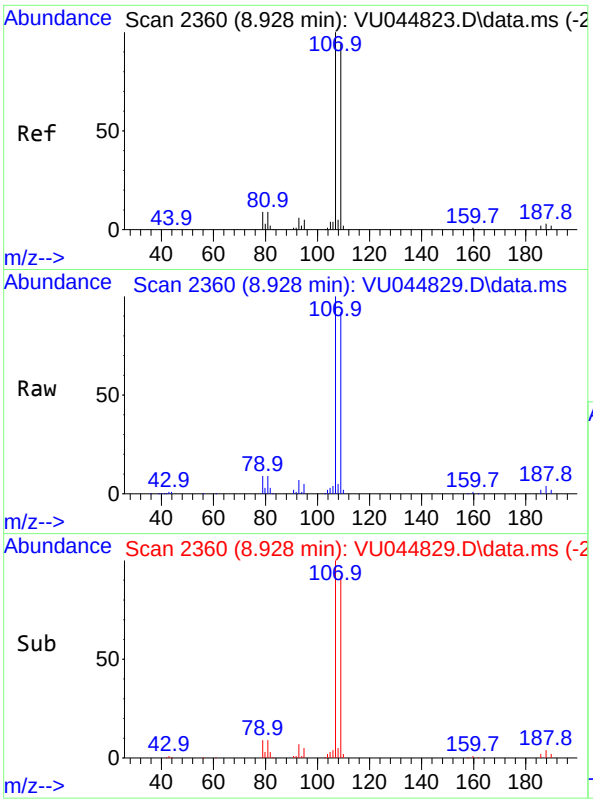
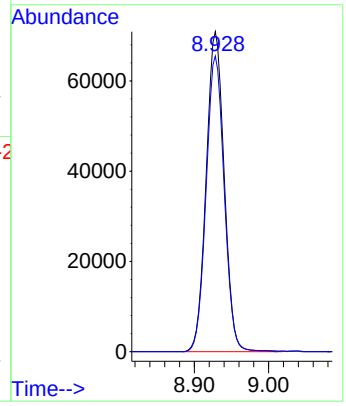
9/27/2021 11:02:55 AM

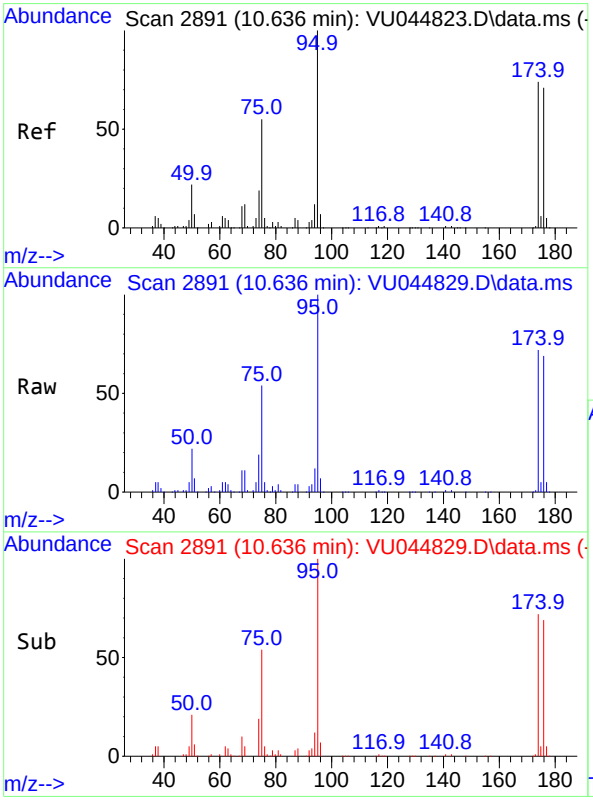


#61
1,2-Dibromoethane
Concen: 48.619 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:107 Resp: 119417

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.8	112.2

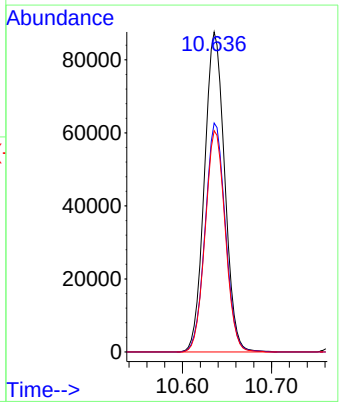




#62
4-Bromofluorobenzene
Concen: 50.697 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 95 Resp: 138016

Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	146.6
176	68.7	0.0	141.2



Instrument :
MSVOA_U
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VSTDCCC050

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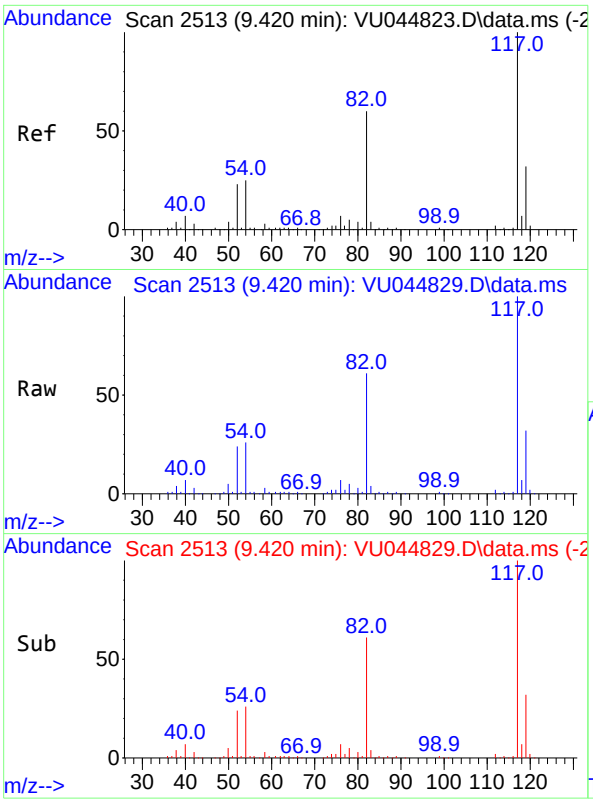
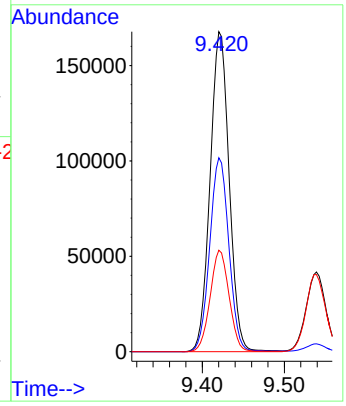
9/27/2021 11:02:55 AM

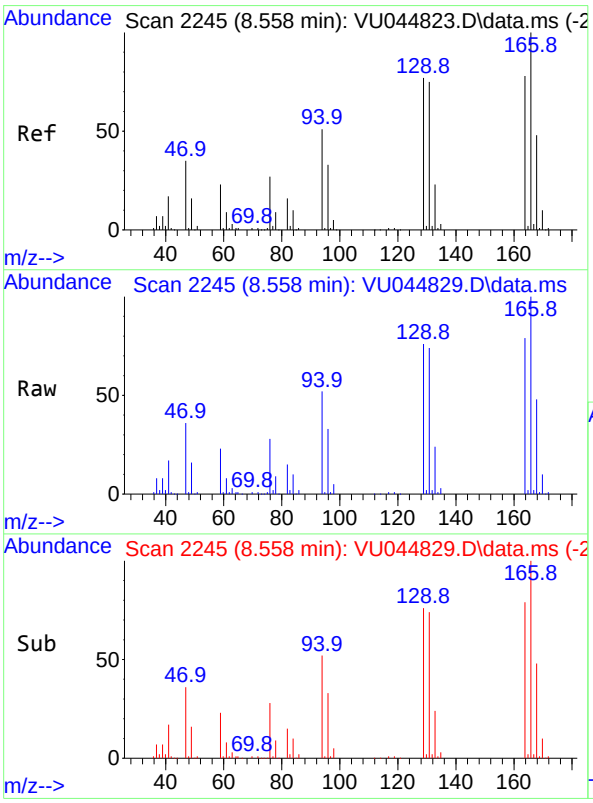


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:117 Resp: 269865

Ion	Ratio	Lower	Upper
117	100		
82	60.6	47.8	71.8
119	31.7	25.8	38.6

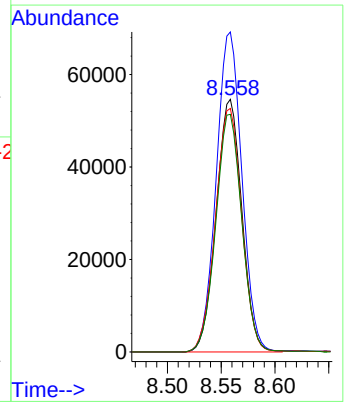




#64
Tetrachloroethene
Concen: 49.769 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

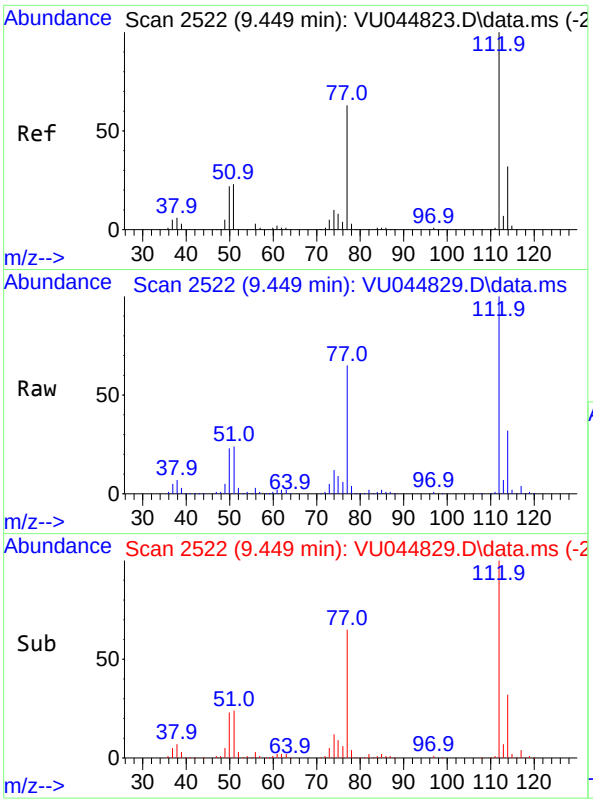
Tgt Ion:164 Resp: 91037

Ion	Ratio	Lower	Upper
164	100		
166	126.7	102.8	154.2
129	96.4	79.4	119.2
131	94.1	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

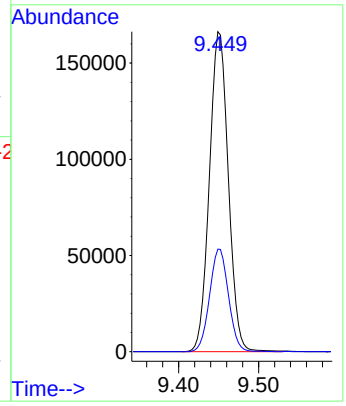
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

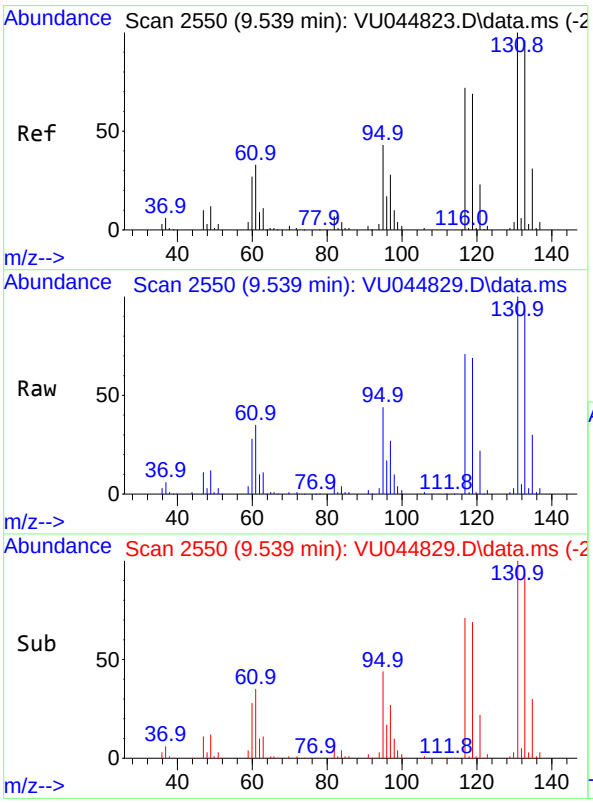


#65
Chlorobenzene
Concen: 48.834 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:112 Resp: 273583

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.9	38.9

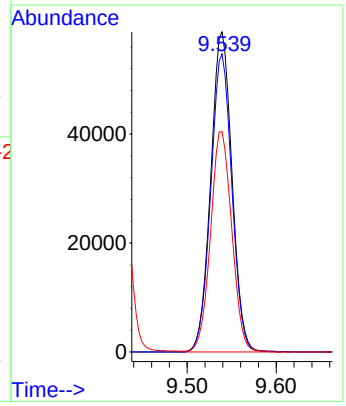




#66
1,1,1,2-Tetrachloroethane
Concen: 48.738 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:131 Resp: 97389

Ion	Ratio	Lower	Upper
131	100		
133	92.7	48.1	144.3
119	68.9	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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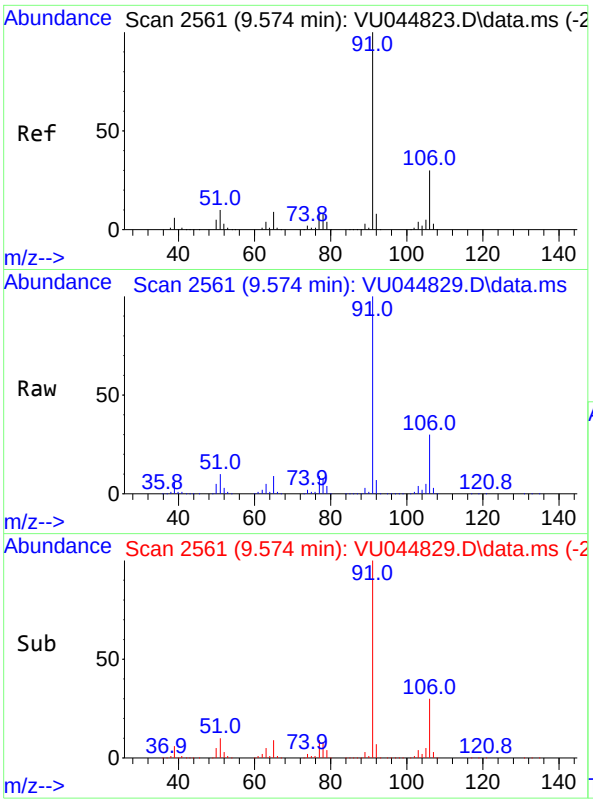
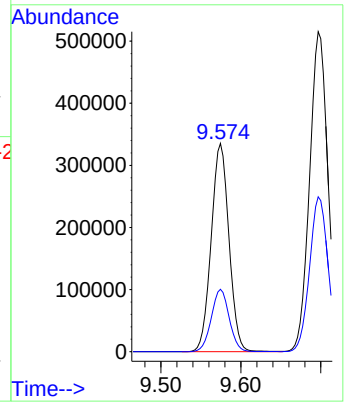
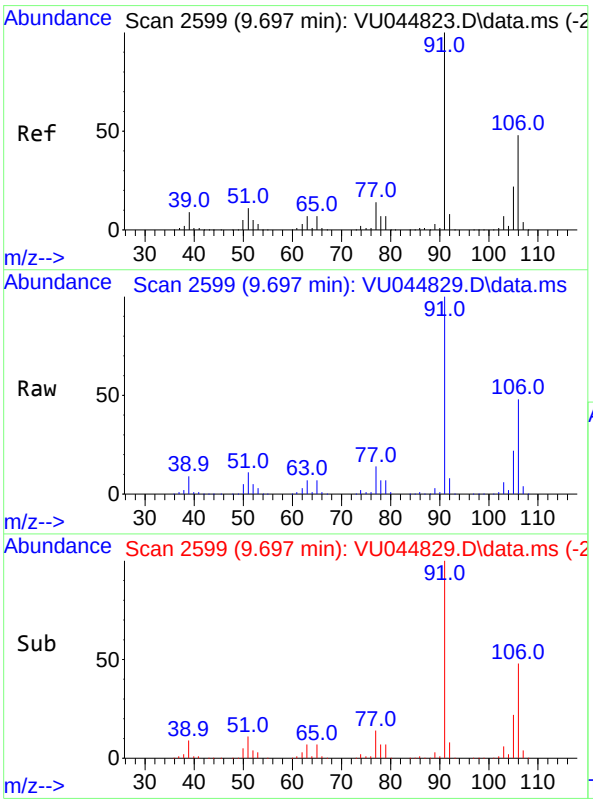


#67
Ethyl Benzene
Concen: 51.750 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 91 Resp: 517470

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.3	36.5

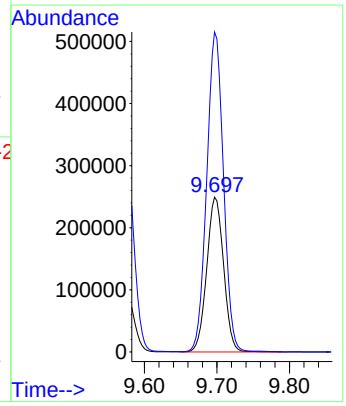




#68
m/p-Xylenes
Concen: 105.327 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:106 Resp: 402823

Ion	Ratio	Lower	Upper
106	100		
91	205.0	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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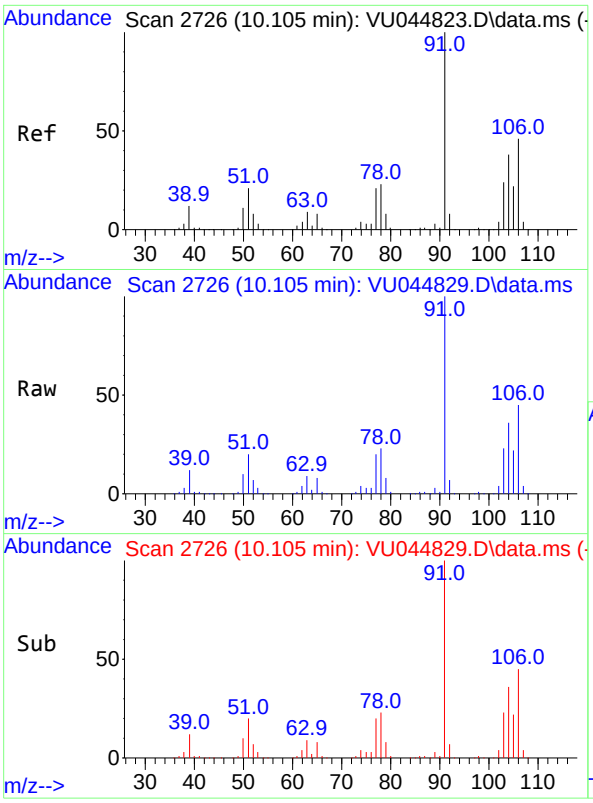
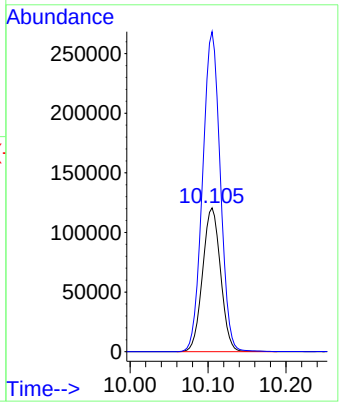
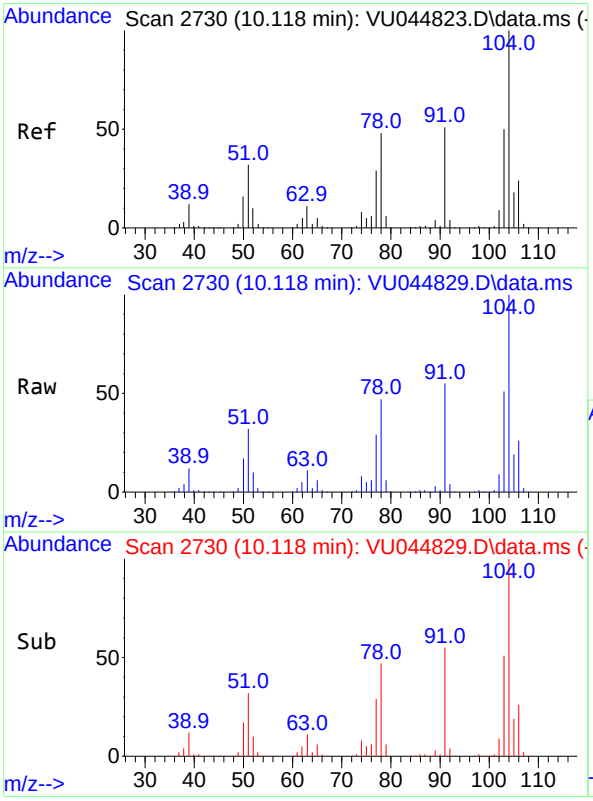


#69
o-Xylene
Concen: 52.357 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:106 Resp: 193624

Ion	Ratio	Lower	Upper
106	100		
91	218.9	108.9	326.7

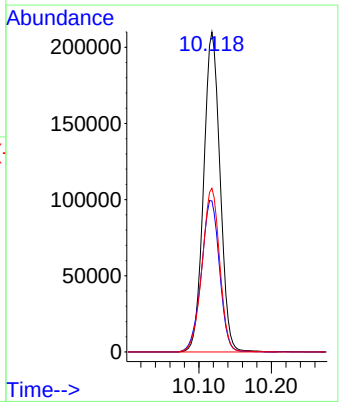




#70
Styrene
Concen: 47.952 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:104 Resp: 331147

Ion	Ratio	Lower	Upper
104	100		
78	52.3	41.4	62.0
103	54.9	43.5	65.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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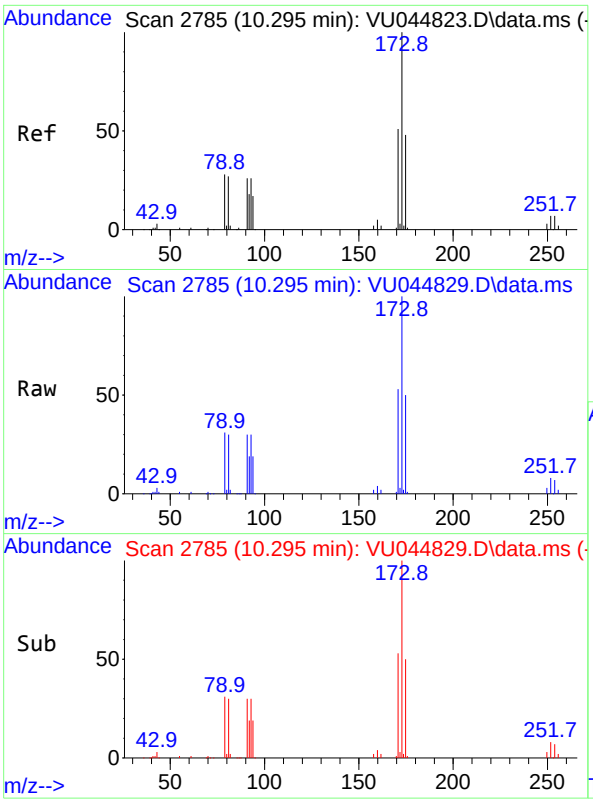
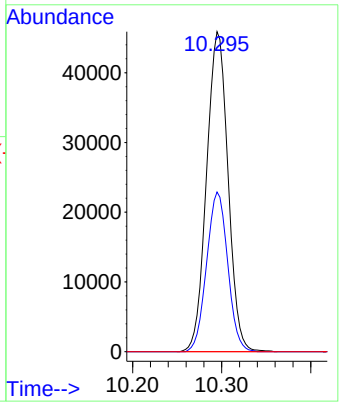
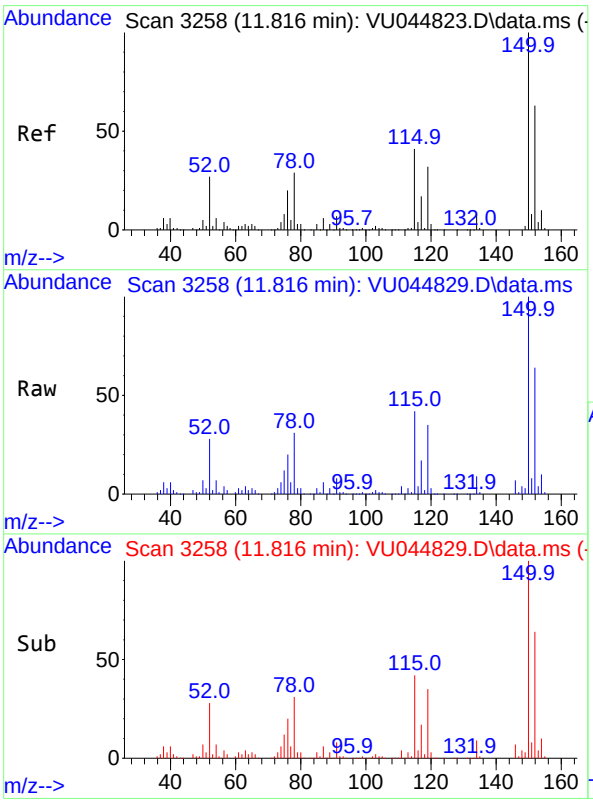


#71
Bromoform
Concen: 46.401 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:173 Resp: 76719

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	73.0
254	0.0	0.0	0.0

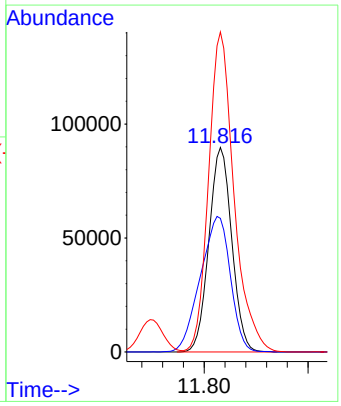




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:152 Resp: 137105

Ion	Ratio	Lower	Upper
152	100		
115	86.9	43.5	130.7
150	173.7	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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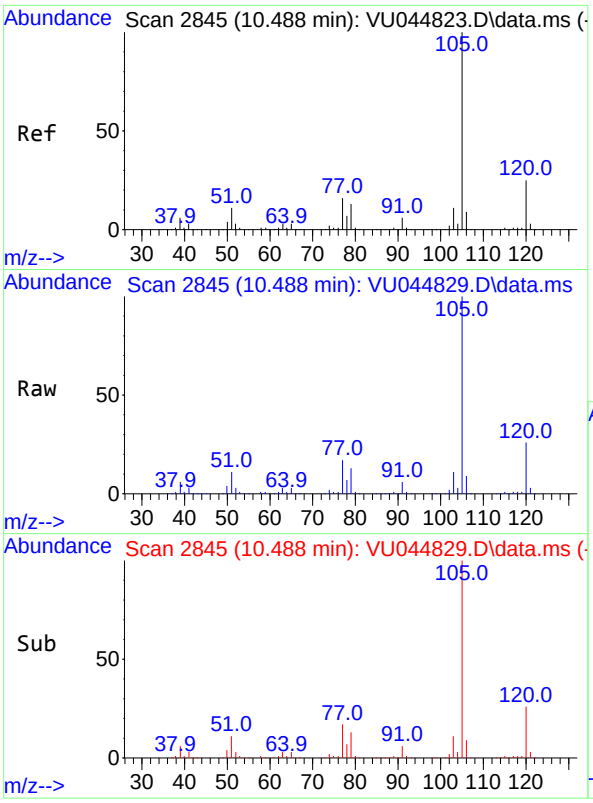
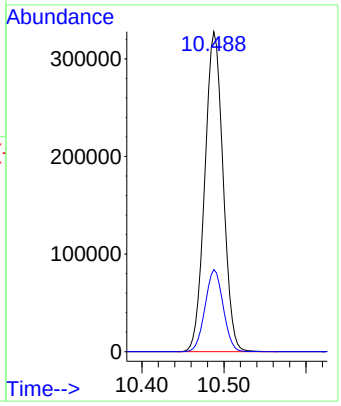
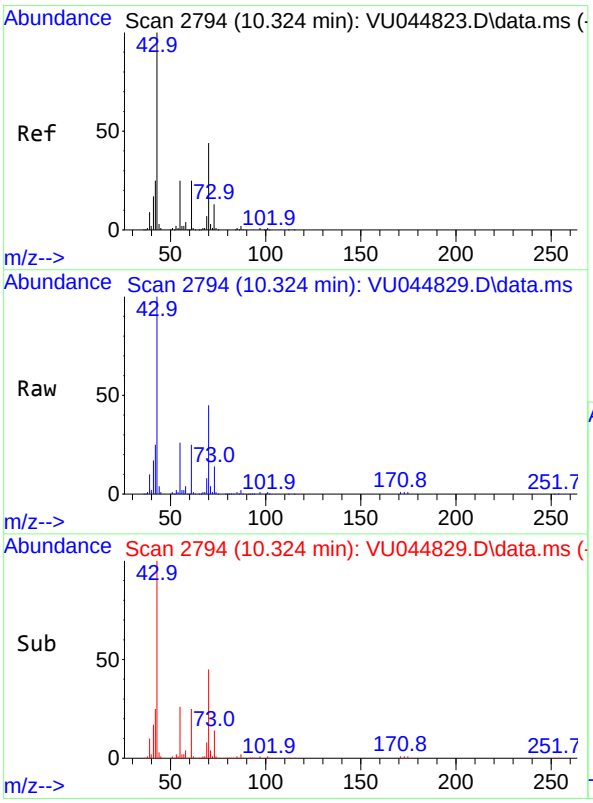


#73
Isopropylbenzene
Concen: 51.969 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:105 Resp: 505715

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.8	38.3

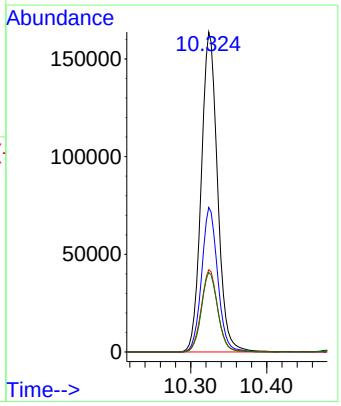




#74
N-amyl acetate
Concen: 49.209 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 43 Resp: 244068

Ion	Ratio	Lower	Upper
43	100		
70	44.6	35.1	52.7
55	26.0	20.5	30.7
61	24.9	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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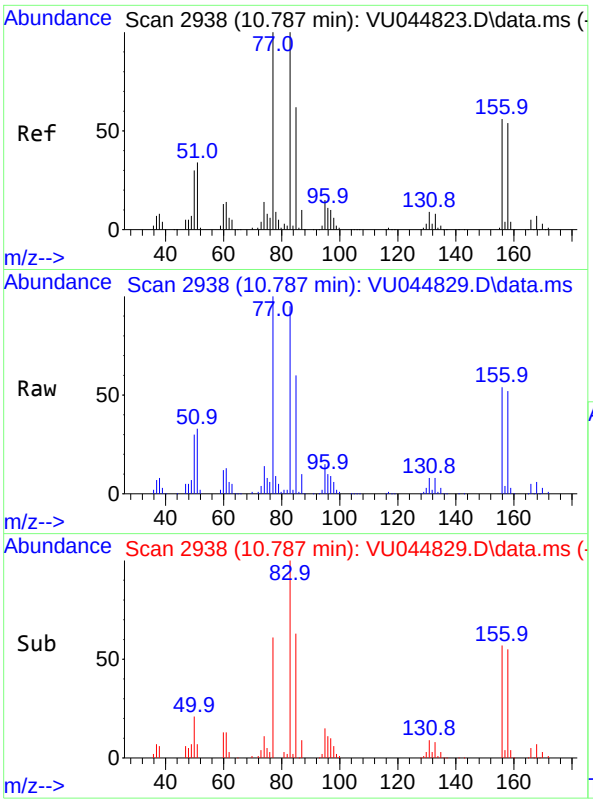
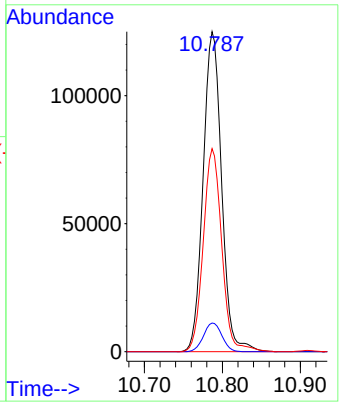
9/27/2021 11:02:55 AM

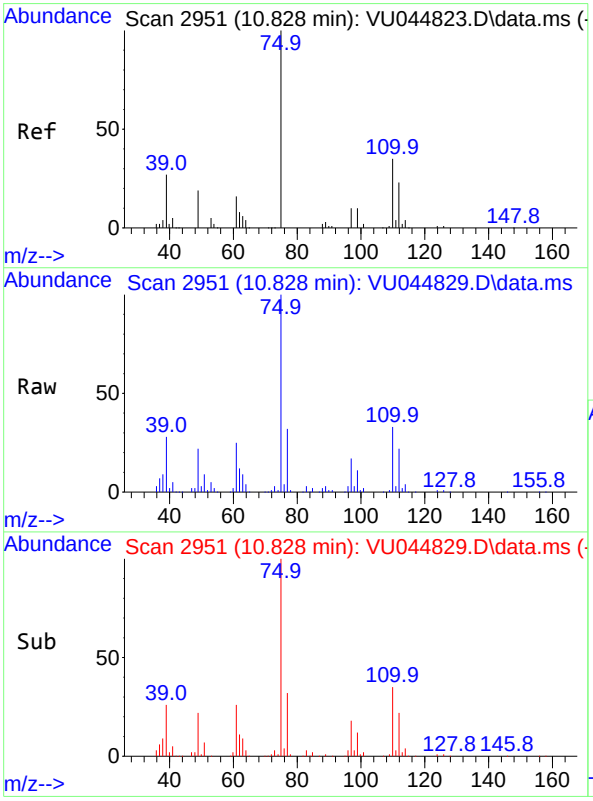


#75
1,1,2,2-Tetrachloroethane
Concen: 46.407 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 83 Resp: 205734

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.3	13.1
85	63.5	31.9	95.5

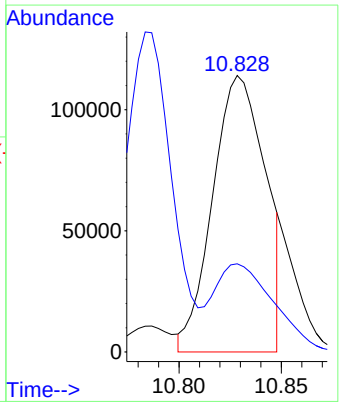




#76
1,2,3-Trichloropropane
Concen: 49.041 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 75 Resp: 203608

Ion	Ratio	Lower	Upper
75	100		
77	35.6	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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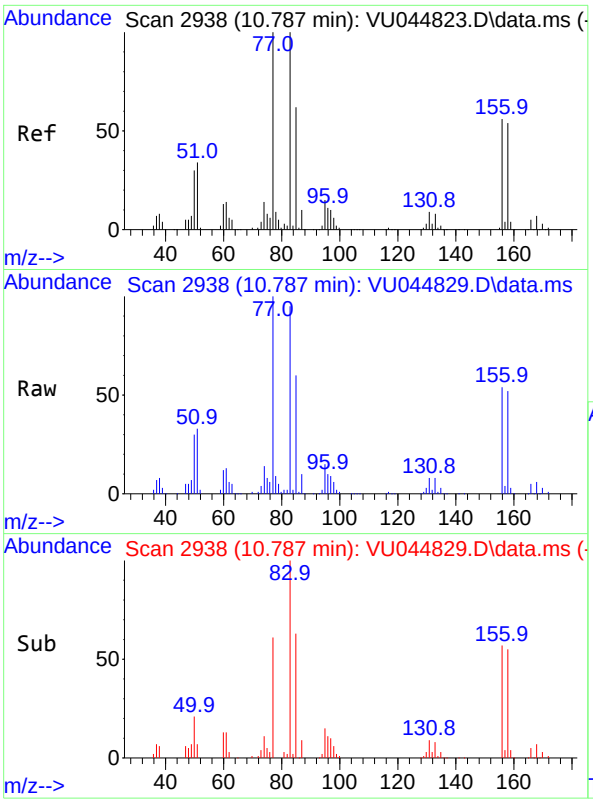
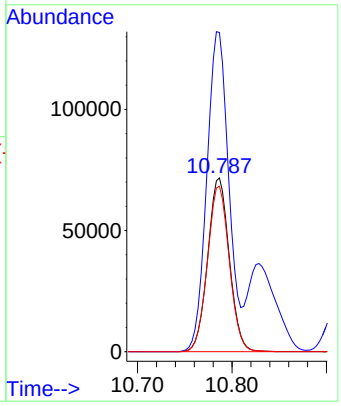
9/27/2021 11:02:55 AM

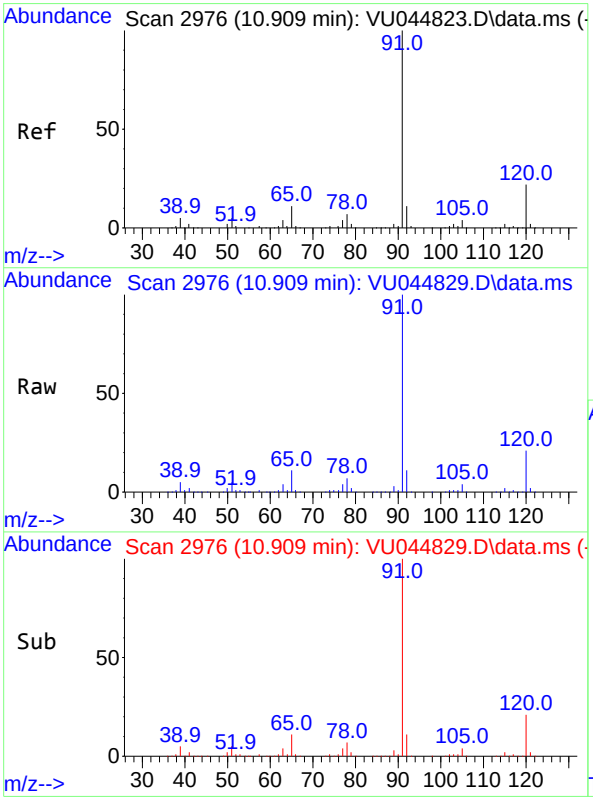


#77
Bromobenzene
Concen: 48.967 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:156 Resp: 113841

Ion	Ratio	Lower	Upper
156	100		
77	186.0	91.1	273.4
158	96.2	48.2	144.6

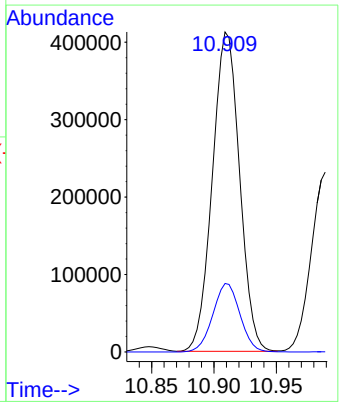




#78
n-propylbenzene
Concen: 53.110 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 91 Resp: 626226

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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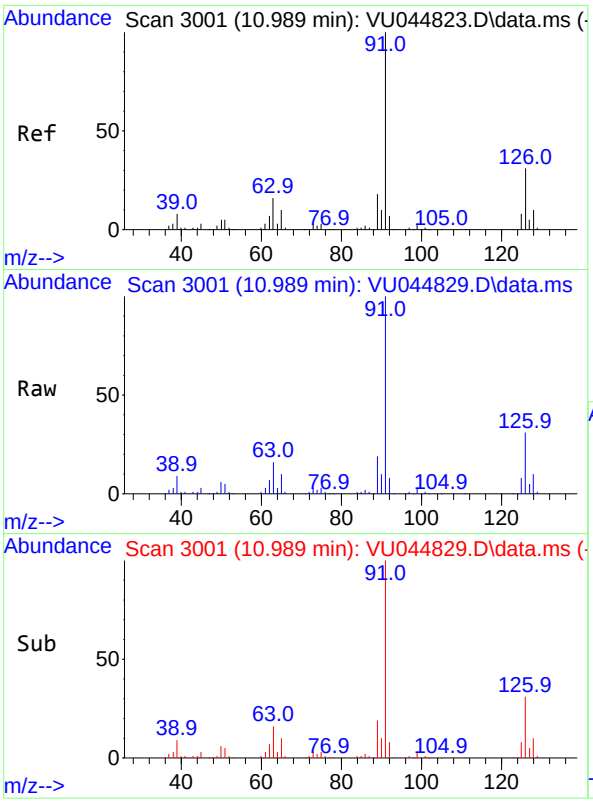
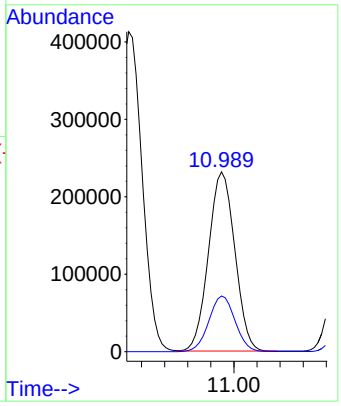
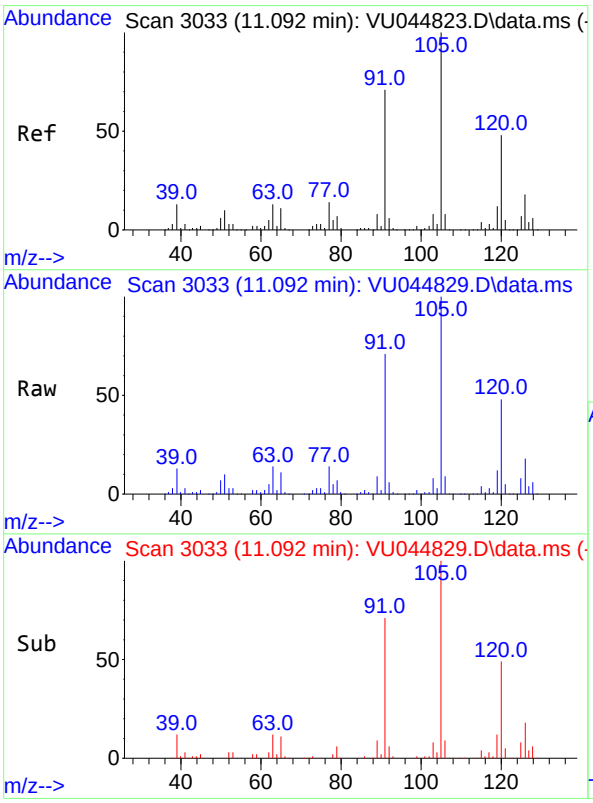


#79
2-Chlorotoluene
Concen: 51.009 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 91 Resp: 366566

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.7	47.0

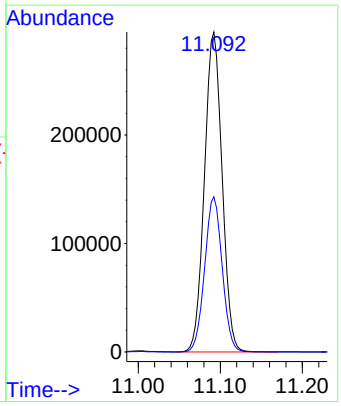




#80
1,3,5-Trimethylbenzene
Concen: 53.504 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:105 Resp: 441021

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.1	72.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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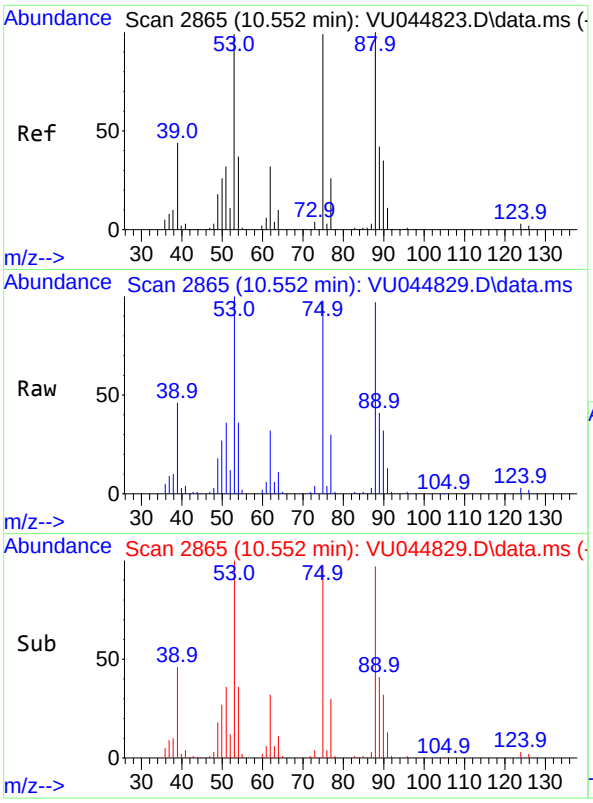
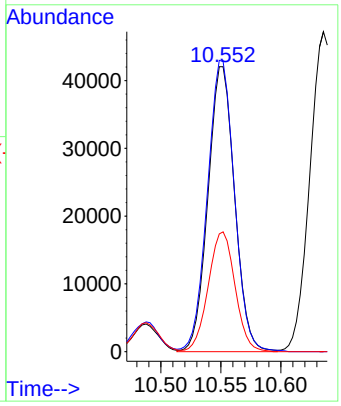
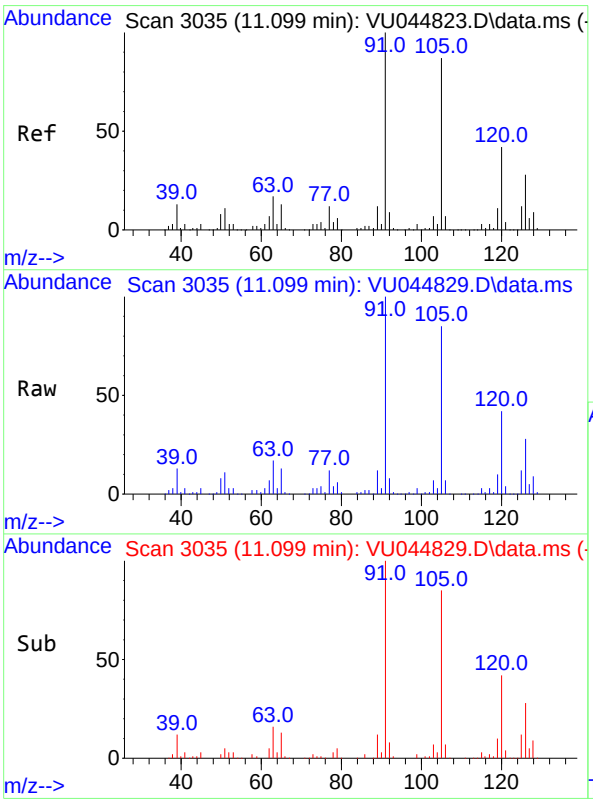


#81
trans-1,4-Dichloro-2-butene
Concen: 50.679 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 75 Resp: 64952

Ion	Ratio	Lower	Upper
75	100		
53	103.5	82.0	123.0
89	42.3	34.2	51.4

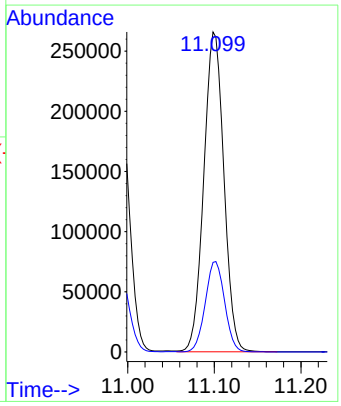




#82
4-Chlorotoluene
Concen: 52.304 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 91 Resp: 427923

Ion	Ratio	Lower	Upper
91	100		
126	27.3	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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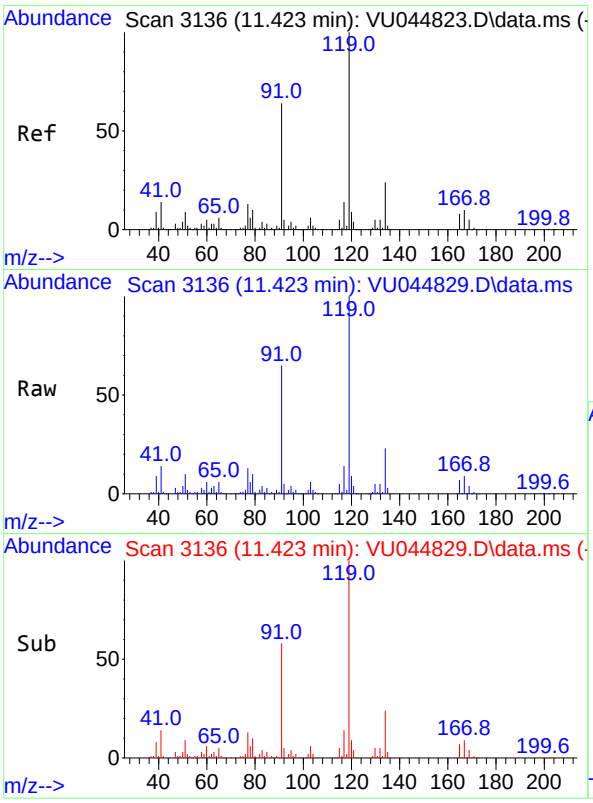
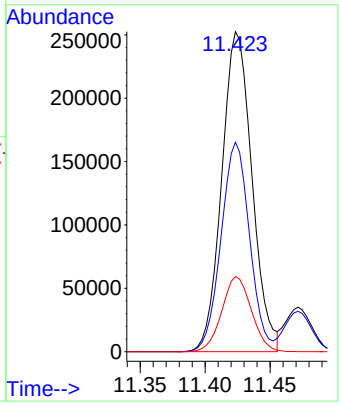
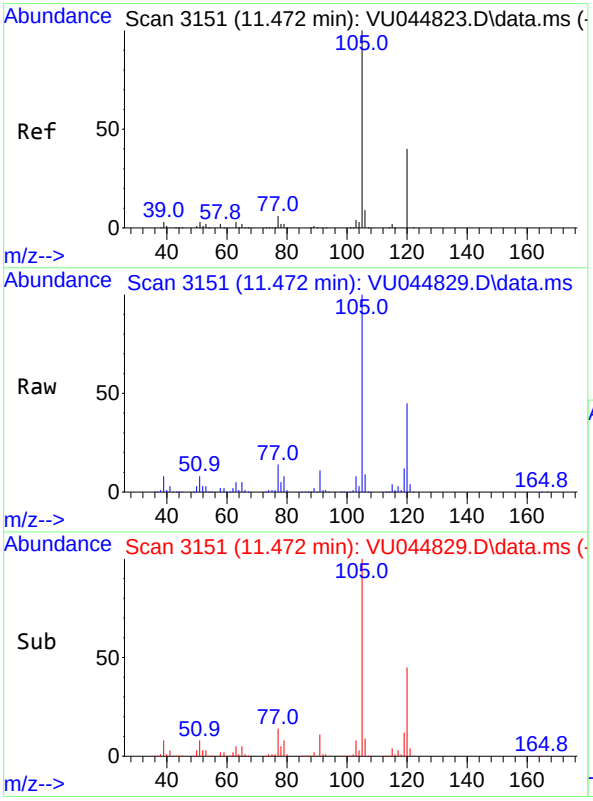


#83
tert-Butylbenzene
Concen: 51.452 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:119 Resp: 409128

Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.4	91.2
134	22.9	11.5	34.5

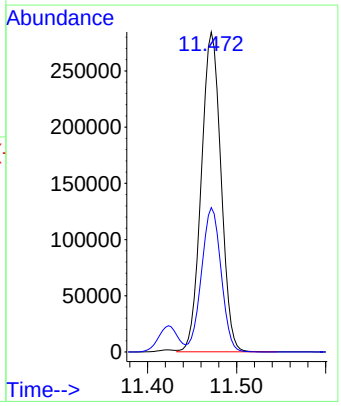




#84
1,2,4-Trimethylbenzene
Concen: 53.489 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

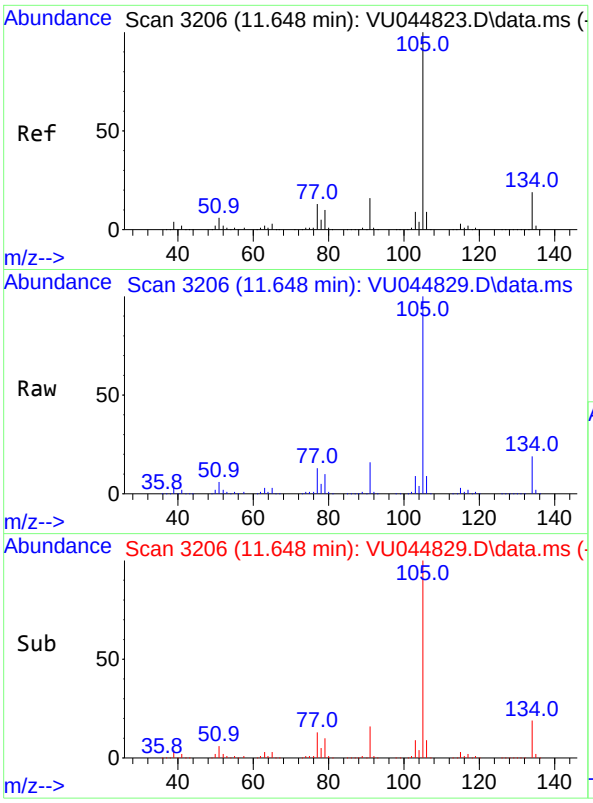
Tgt Ion:105 Resp: 434663

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

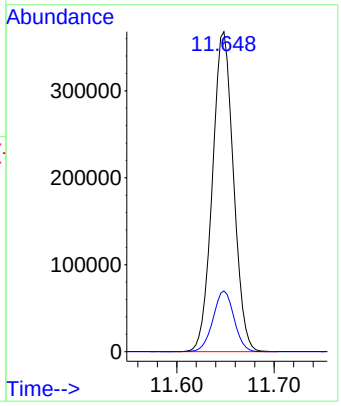
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

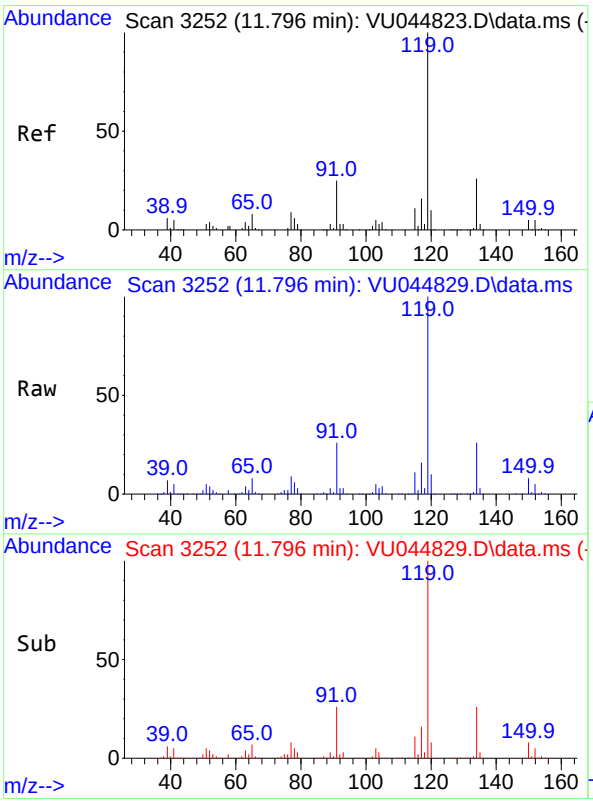


#85
sec-Butylbenzene
Concen: 53.639 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:105 Resp: 551536

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.3	28.0

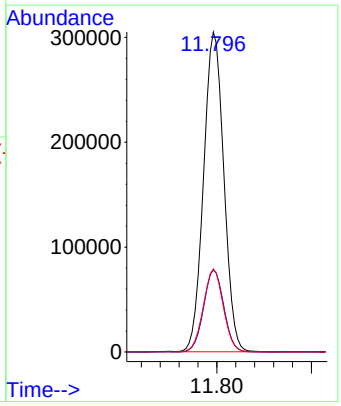




#86
p-Isopropyltoluene
Concen: 54.223 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

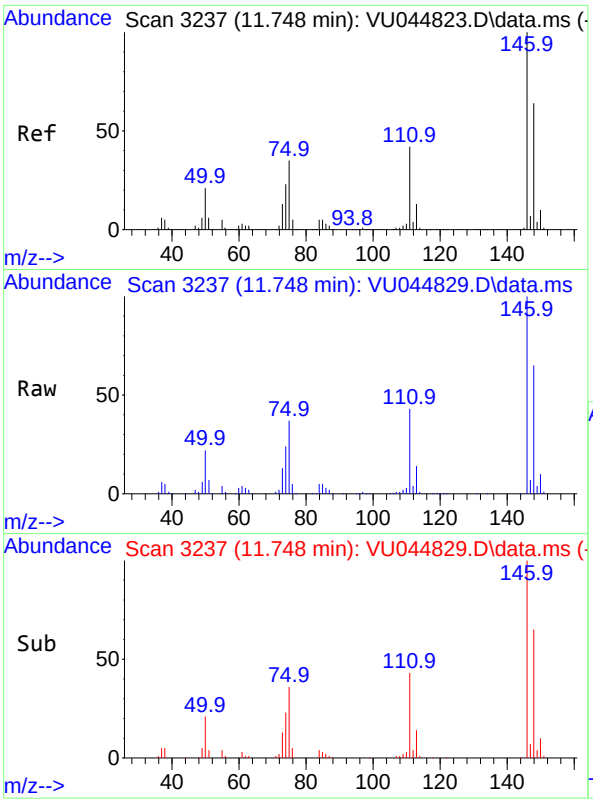
Tgt Ion:119 Resp: 453566

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.3
91	25.7	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

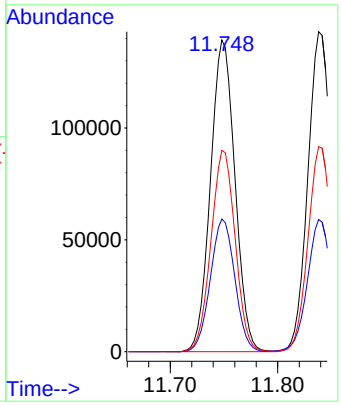
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

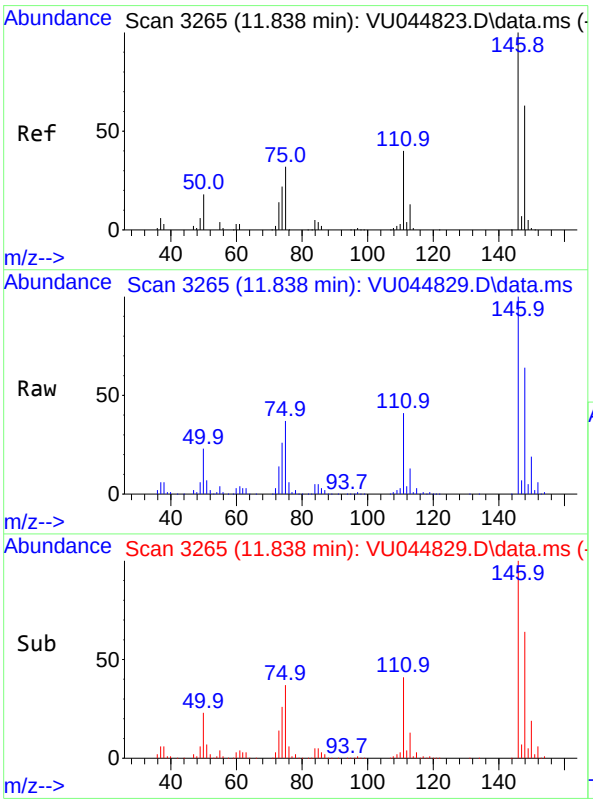


#87
1,3-Dichlorobenzene
Concen: 48.868 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:146 Resp: 220474

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	64.0	32.1	96.3

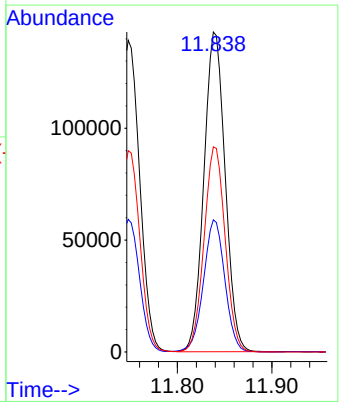




#88
1,4-Dichlorobenzene
Concen: 47.886 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

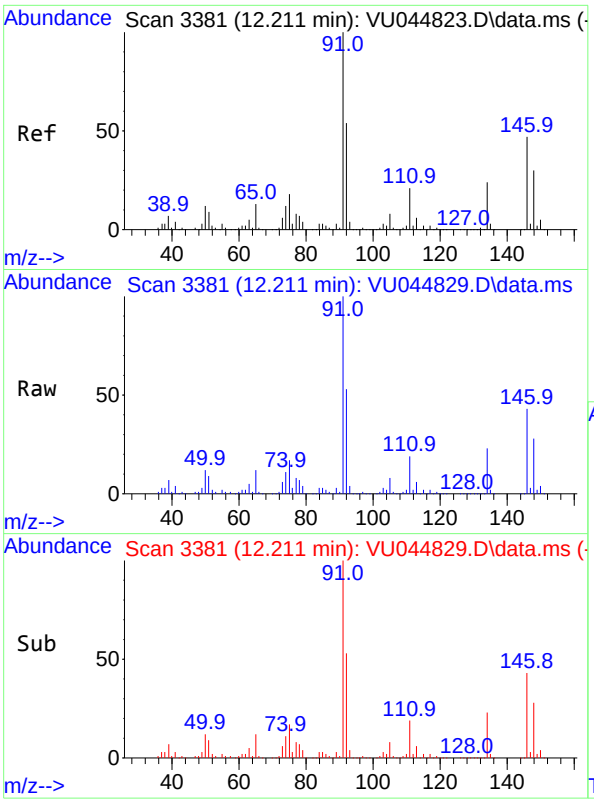
Tgt Ion:146 Resp: 223419

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.3	61.0
148	63.9	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

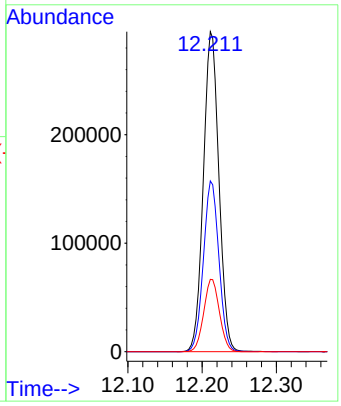
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

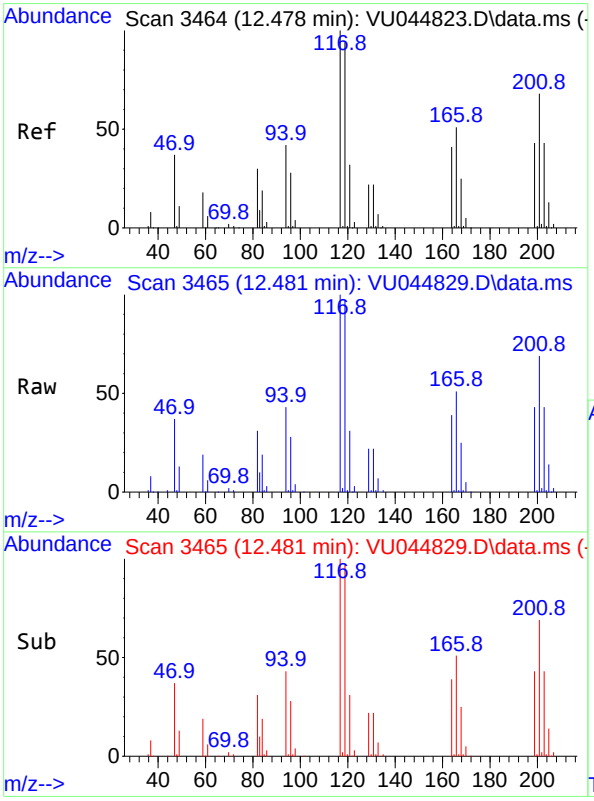


#89
n-Butylbenzene
Concen: 49.658 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion: 91 Resp: 427789

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.8	80.4
134	22.8	11.8	35.4

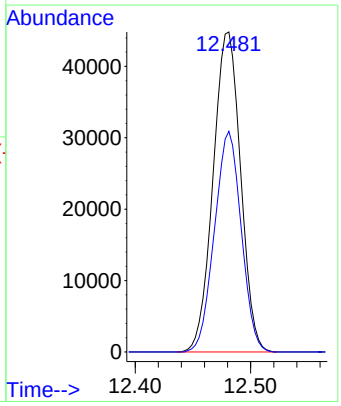




#90
Hexachloroethane
Concen: 49.183 ug/l
RT: 12.481 min Scan# 3465
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

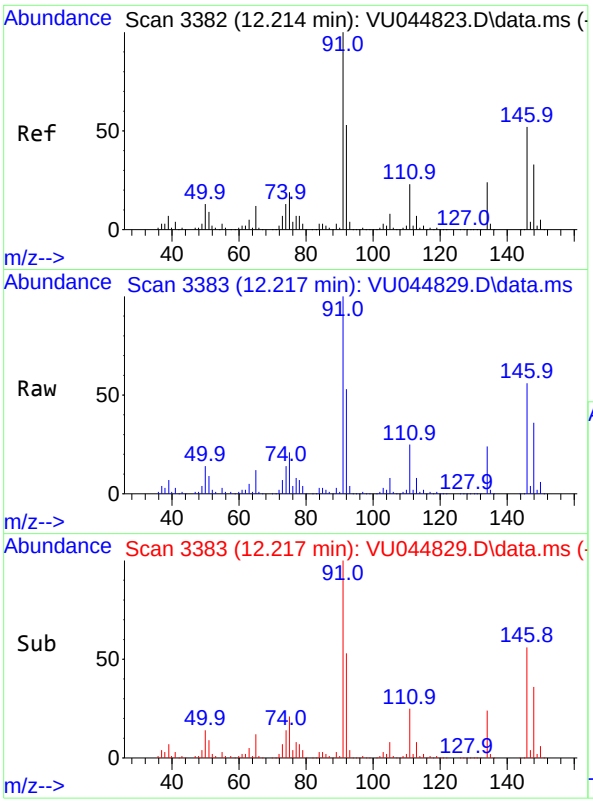
Tgt Ion:117 Resp: 74133

Ion	Ratio	Lower	Upper
117	100		
201	67.1	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

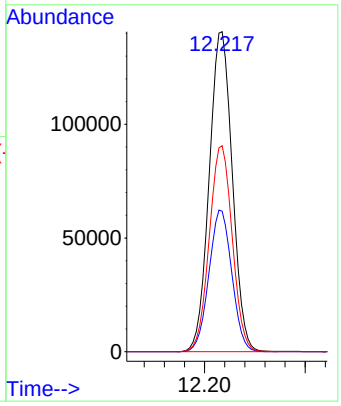
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

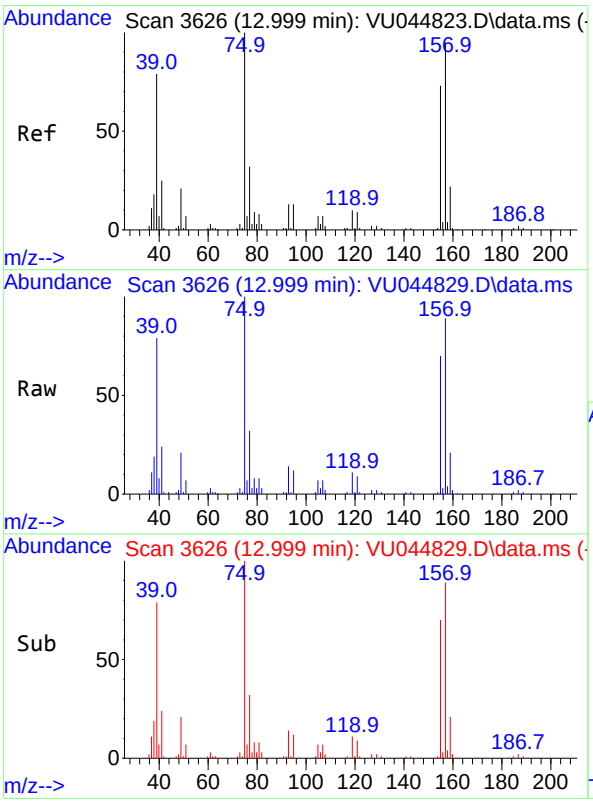


#91
1,2-Dichlorobenzene
Concen: 46.849 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:146 Resp: 223987

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.4	64.3
148	64.2	31.8	95.3

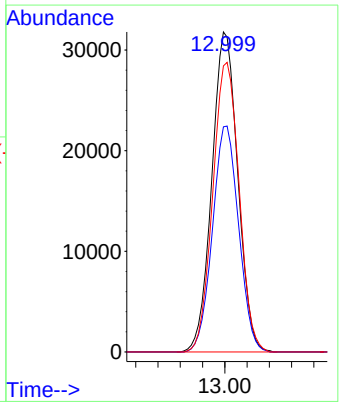




#92
1,2-Dibromo-3-Chloropropane
Concen: 47.757 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

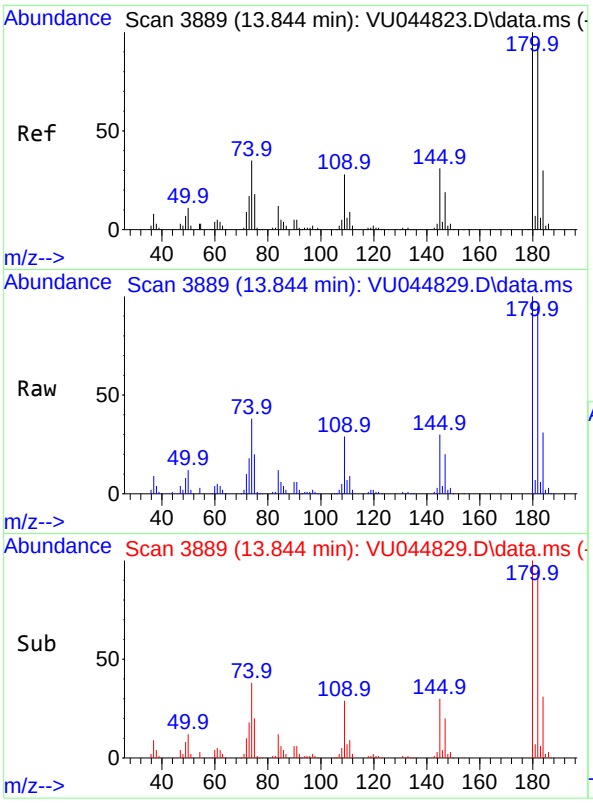
Tgt Ion: 75 Resp: 51338

Ion	Ratio	Lower	Upper
75	100		
155	71.4	36.9	110.6
157	91.9	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

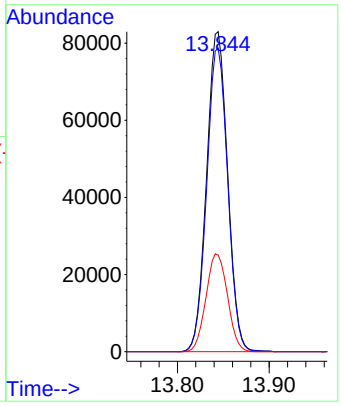
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

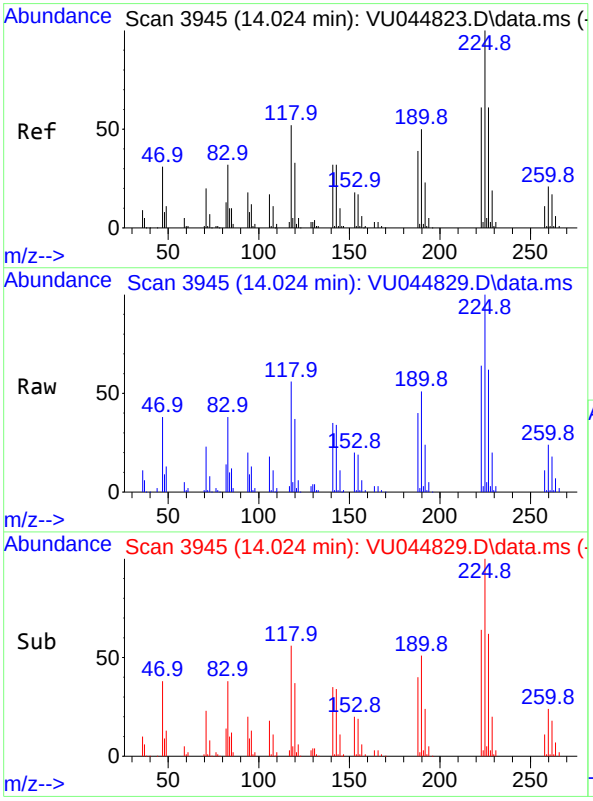


#93
1,2,4-Trichlorobenzene
Concen: 50.135 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:180 Resp: 132451

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.4	142.3
145	31.2	15.4	46.2

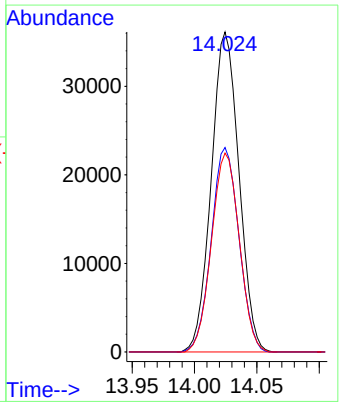




#94
Hexachlorobutadiene
Concen: 47.527 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

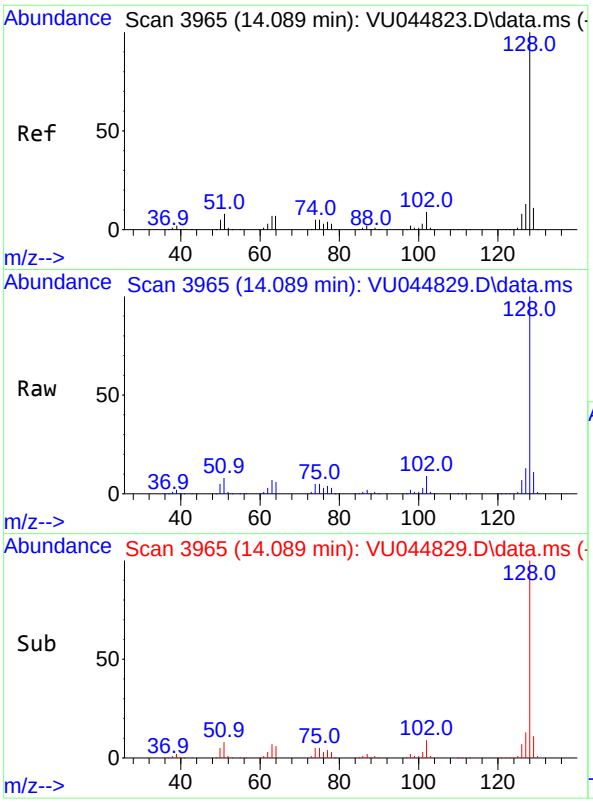
Tgt Ion:225 Resp: 55858

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.1	93.3
227	62.4	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

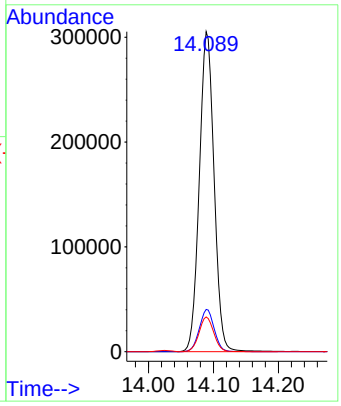
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:02:55 AM

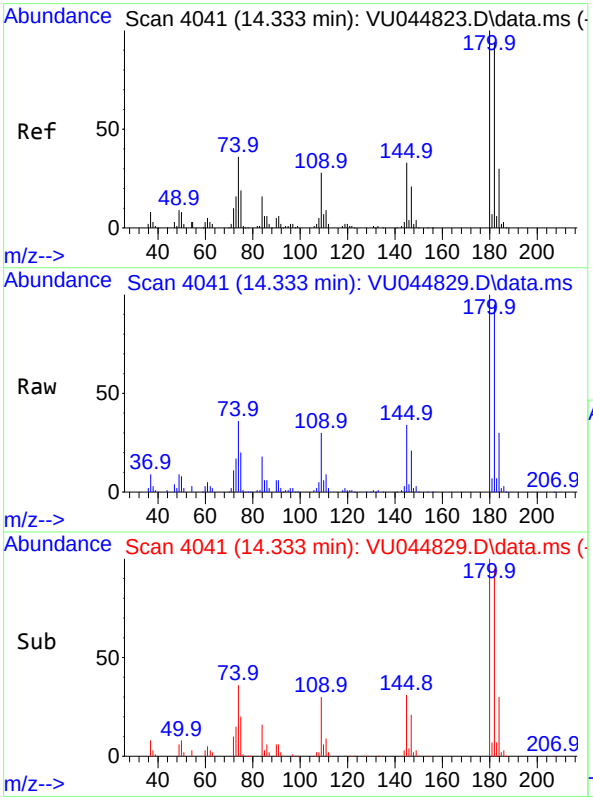


#95
Naphthalene
Concen: 46.005 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:128 Resp: 482980

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.9	8.6	13.0

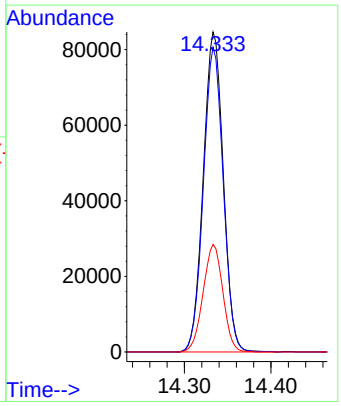




#96
1,2,3-Trichlorobenzene
Concen: 50.493 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU044829.D
Acq: 25 Sep 2021 12:12

Tgt Ion:180 Resp: 135647

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.1	141.4
145	33.3	16.4	49.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_U
LabSampleId : VSTDCCC050

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.599	0.583	2.7	95	0.00
3	P	Chloromethane	0.909	0.790	13.1	92	0.00
4	C	Vinyl Chloride	0.848	0.791	6.7#	94	0.00
5	T	Bromomethane	0.450	0.455	-1.1	111	0.00
6	T	Chloroethane	0.659	0.561	14.9	101	0.00
7	T	Trichlorofluoromethane	1.042	1.035	0.7	100	0.00
8	T	Diethyl Ether	0.477	0.468	1.9	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.608	0.604	0.7	99	0.00
10	T	Methyl Iodide	0.661	0.609	7.9	87	0.00
11	T	Tert butyl alcohol	0.255	0.207	18.8	85	0.02
12	CM	1,1-Dichloroethene	0.602	0.566	6.0#	95	0.00
13	T	Acrolein	0.072	0.077	-6.9	112	0.00
14	T	Allyl chloride	1.169	1.084	7.3	92	0.00
15	T	Acrylonitrile	0.532	0.496	6.8	91	0.00
16	T	Acetone	0.492	0.456	7.3	96	0.00
17	T	Carbon Disulfide	1.694	1.526	9.9	92	0.00
18	T	Methyl Acetate	1.644	1.485	9.7	91	0.00
19	T	Methyl tert-butyl Ether	2.248	2.192	2.5	95	0.00
20	T	Methylene Chloride	0.797	0.712	10.7	95	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.619	4.0	95	0.00
22	T	Diisopropyl ether	2.309	2.222	3.8	93	0.00
23	T	Vinyl Acetate	1.893	1.849	2.3	93	0.00
24	P	1,1-Dichloroethane	1.340	1.300	3.0	96	0.00
25	T	2-Butanone	0.747	0.690	7.6	90	0.00
26	T	2,2-Dichloropropane	1.005	0.992	1.3	99	0.00
27	T	cis-1,2-Dichloroethene	0.784	0.738	5.9	95	0.00
28	T	Bromochloromethane	0.637	0.619	2.8	97	0.00
29	T	Tetrahydrofuran	0.470	0.428	8.9	88	0.00
30	C	Chloroform	1.347	1.267	5.9#	96	0.00
31	T	Cyclohexane	1.253	1.134	9.5	94	0.00
32	T	1,1,1-Trichloroethane	1.089	1.032	5.2	95	0.00
33	S	1,2-Dichloroethane-d4	0.873	0.852	2.4	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.343	0.336	2.0	99	0.00
36	T	1,1-Dichloropropene	0.531	0.518	2.4	96	0.00
37	T	Ethyl Acetate	0.778	0.723	7.1	92	0.00
38	T	Carbon Tetrachloride	0.474	0.457	3.6	93	0.00
39	T	Methylcyclohexane	0.600	0.616	-2.7	97	0.00
40	TM	Benzene	1.617	1.551	4.1	95	0.00
41	T	Methacrylonitrile	0.389	0.374	3.9	91	0.00
42	TM	1,2-Dichloroethane	0.636	0.613	3.6	97	0.00
43	T	Isopropyl Acetate	1.089	1.043	4.2	94	0.00
44	TM	Trichloroethene	0.389	0.362	6.9	96	0.00
45	C	1,2-Dichloropropane	0.438	0.422	3.7#	92	0.00
46	T	Dibromomethane	0.290	0.282	2.8	96	0.00
47	T	Bromodichloromethane	0.572	0.556	2.8	95	0.00
48	T	Methyl methacrylate	0.514	0.498	3.1	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_U
LabSampleId : VSTDCCC050

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.013	0.012	7.7	87	0.00
50	S	Toluene-d8	1.295	1.305	-0.8	100	0.00
51	T	4-Methyl-2-Pentanone	0.776	0.735	5.3	92	0.00
52	CM	Toluene	0.967	0.959	0.8#	96	0.00
53	T	t-1,3-Dichloropropene	0.596	0.606	-1.7	96	0.00
54	T	cis-1,3-Dichloropropene	0.646	0.650	-0.6	96	0.00
55	T	1,1,2-Trichloroethane	0.413	0.400	3.1	96	0.00
56	T	Ethyl methacrylate	0.652	0.667	-2.3	96	0.00
57	T	1,3-Dichloropropane	0.736	0.714	3.0	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.142	2.1	93	0.00
59	T	2-Hexanone	0.623	0.582	6.6	91	0.00
60	T	Dibromochloromethane	0.396	0.383	3.3	94	0.00
61	T	1,2-Dibromoethane	0.434	0.422	2.8	96	0.00
62	S	4-Bromofluorobenzene	0.481	0.488	-1.5	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	T	Tetrachloroethene	0.339	0.337	0.6	96	0.00
65	PM	Chlorobenzene	1.038	1.014	2.3	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.370	0.361	2.4	96	0.00
67	C	Ethyl Benzene	1.853	1.918	-3.5#	98	0.00
68	T	m/p-Xylenes	0.709	0.746	-5.2	98	0.00
69	T	o-Xylene	0.685	0.717	-4.7	98	0.00
70	T	Styrene	1.150	1.227	-6.7	98	0.00
71	P	Bromoform	0.306	0.284	7.2	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.549	3.689	-3.9	98	0.00
74	T	N-amyl acetate	1.809	1.780	1.6	93	0.00
75	P	1,1,2,2-Tetrachloroethane	1.617	1.501	7.2	96	0.00
76	T	1,2,3-Trichloropropane	1.514	1.485	1.9	100	0.00
77	T	Bromobenzene	0.848	0.830	2.1	96	0.00
78	T	n-propylbenzene	4.300	4.567	-6.2	99	0.00
79	T	2-Chlorotoluene	2.621	2.674	-2.0	98	0.00
80	T	1,3,5-Trimethylbenzene	3.006	3.217	-7.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.467	0.474	-1.5	99	0.00
82	T	4-Chlorotoluene	2.984	3.121	-4.6	99	0.00
83	T	tert-Butylbenzene	2.900	2.984	-2.9	97	0.00
84	T	1,2,4-Trimethylbenzene	2.964	3.170	-7.0	97	0.00
85	T	sec-Butylbenzene	3.750	4.023	-7.3	98	0.00
86	T	p-Isopropyltoluene	3.051	3.308	-8.4	98	0.00
87	T	1,3-Dichlorobenzene	1.645	1.608	2.2	97	0.00
88	T	1,4-Dichlorobenzene	1.701	1.630	4.2	97	0.00
89	T	n-Butylbenzene	2.805	3.120	-11.2	101	0.00
90	T	Hexachloroethane	0.550	0.541	1.6	98	0.00
91	T	1,2-Dichlorobenzene	1.744	1.634	6.3	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.392	0.374	4.6	92	0.00
93	T	1,2,4-Trichlorobenzene	0.963	0.966	-0.3	93	0.00
94	T	Hexachlorobutadiene	0.429	0.407	5.1	92	0.00
95	T	Naphthalene	3.360	3.523	-4.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.980	0.989	-0.9	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_U
LabSampleId : VSTDCCC050

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	48.702	2.6	95	0.00
3	P	Chloromethane	50.000	43.490	13.0	92	0.00
4	C	Vinyl Chloride	50.000	46.629	6.7#	94	0.00
5	T	Bromomethane	50.000	55.704	-11.4	111	0.00
6	T	Chloroethane	50.000	49.315	1.4	101	0.00
7	T	Trichlorofluoromethane	50.000	49.695	0.6	100	0.00
8	T	Diethyl Ether	50.000	49.106	1.8	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.623	0.8	99	0.00
10	T	Methyl Iodide	50.000	46.088	7.8	87	0.00
11	T	Tert butyl alcohol	250.000	203.166	18.7	85	0.02
12	CM	1,1-Dichloroethene	50.000	46.978	6.0#	95	0.00
13	T	Acrolein	250.000	278.174	-11.3	112	0.00
14	T	Allyl chloride	50.000	46.403	7.2	92	0.00
15	T	Acrylonitrile	250.000	232.916	6.8	91	0.00
16	T	Acetone	250.000	231.691	7.3	96	0.00
17	T	Carbon Disulfide	50.000	45.051	9.9	92	0.00
18	T	Methyl Acetate	50.000	45.144	9.7	91	0.00
19	T	Methyl tert-butyl Ether	50.000	48.759	2.5	95	0.00
20	T	Methylene Chloride	50.000	44.690	10.6	95	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.991	4.0	95	0.00
22	T	Diisopropyl ether	50.000	48.123	3.8	93	0.00
23	T	Vinyl Acetate	250.000	244.210	2.3	93	0.00
24	P	1,1-Dichloroethane	50.000	48.501	3.0	96	0.00
25	T	2-Butanone	250.000	230.863	7.7	90	0.00
26	T	2,2-Dichloropropane	50.000	49.354	1.3	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.088	5.8	95	0.00
28	T	Bromochloromethane	50.000	48.630	2.7	97	0.00
29	T	Tetrahydrofuran	250.000	227.876	8.8	88	0.00
30	C	Chloroform	50.000	47.002	6.0#	96	0.00
31	T	Cyclohexane	50.000	45.267	9.5	94	0.00
32	T	1,1,1-Trichloroethane	50.000	47.388	5.2	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.838	2.3	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	49.045	1.9	99	0.00
36	T	1,1-Dichloropropene	50.000	48.802	2.4	96	0.00
37	T	Ethyl Acetate	50.000	46.411	7.2	92	0.00
38	T	Carbon Tetrachloride	50.000	48.214	3.6	93	0.00
39	T	Methylcyclohexane	50.000	51.341	-2.7	97	0.00
40	TM	Benzene	50.000	47.953	4.1	95	0.00
41	T	Methacrylonitrile	50.000	48.192	3.6	91	0.00
42	TM	1,2-Dichloroethane	50.000	48.196	3.6	97	0.00
43	T	Isopropyl Acetate	50.000	47.885	4.2	94	0.00
44	TM	Trichloroethene	50.000	46.559	6.9	96	0.00
45	C	1,2-Dichloropropane	50.000	48.152	3.7#	92	0.00
46	T	Dibromomethane	50.000	48.673	2.7	96	0.00
47	T	Bromodichloromethane	50.000	48.631	2.7	95	0.00
48	T	Methyl methacrylate	50.000	48.449	3.1	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_U
LabSampleId : VSTDCCC050

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	942.607	5.7	87	0.00
50	S	Toluene-d8	50.000	50.384	-0.8	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	236.667	5.3	92	0.00
52	CM	Toluene	50.000	49.602	0.8#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	50.858	-1.7	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.342	-0.7	96	0.00
55	T	1,1,2-Trichloroethane	50.000	48.366	3.3	96	0.00
56	T	Ethyl methacrylate	50.000	45.495	9.0	96	0.00
57	T	1,3-Dichloropropane	50.000	48.480	3.0	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	205.359	17.9	93	0.00
59	T	2-Hexanone	250.000	233.419	6.6	91	0.00
60	T	Dibromochloromethane	50.000	48.414	3.2	94	0.00
61	T	1,2-Dibromoethane	50.000	48.619	2.8	96	0.00
62	S	4-Bromofluorobenzene	50.000	50.697	-1.4	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64	T	Tetrachloroethene	50.000	49.769	0.5	96	0.00
65	PM	Chlorobenzene	50.000	48.834	2.3	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.738	2.5	96	0.00
67	C	Ethyl Benzene	50.000	51.750	-3.5#	98	0.00
68	T	m/p-Xylenes	100.000	105.327	-5.3	98	0.00
69	T	o-Xylene	50.000	52.357	-4.7	98	0.00
70	T	Styrene	50.000	47.952	4.1	98	0.00
71	P	Bromoform	50.000	46.401	7.2	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	51.969	-3.9	98	0.00
74	T	N-amyl acetate	50.000	49.209	1.6	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.407	7.2	96	0.00
76	T	1,2,3-Trichloropropane	50.000	49.041	1.9	100	0.00
77	T	Bromobenzene	50.000	48.967	2.1	96	0.00
78	T	n-propylbenzene	50.000	53.110	-6.2	99	0.00
79	T	2-Chlorotoluene	50.000	51.009	-2.0	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.504	-7.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.679	-1.4	99	0.00
82	T	4-Chlorotoluene	50.000	52.304	-4.6	99	0.00
83	T	tert-Butylbenzene	50.000	51.452	-2.9	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.489	-7.0	97	0.00
85	T	sec-Butylbenzene	50.000	53.639	-7.3	98	0.00
86	T	p-Isopropyltoluene	50.000	54.223	-8.4	98	0.00
87	T	1,3-Dichlorobenzene	50.000	48.868	2.3	97	0.00
88	T	1,4-Dichlorobenzene	50.000	47.886	4.2	97	0.00
89	T	n-Butylbenzene	50.000	49.658	0.7	101	0.00
90	T	Hexachloroethane	50.000	49.183	1.6	98	0.00
91	T	1,2-Dichlorobenzene	50.000	46.849	6.3	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.757	4.5	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.135	-0.3	93	0.00
94	T	Hexachlorobutadiene	50.000	47.527	4.9	92	0.00
95	T	Naphthalene	50.000	46.005	8.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044829.D
Acq On : 25 Sep 2021 12:12
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 01:28:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.493	-1.0	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/25/2021 23:35

Lab File ID: VU044857.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.599	0.571		-4.67	20
Chloromethane	0.909	0.779	0.1	-14.3	20
Vinyl Chloride	0.848	0.809		-4.6	20
Bromomethane	0.450	0.438		-2.67	20
Chloroethane	0.659	0.545		-17.3	20
Trichlorofluoromethane	1.042	1.031		-1.06	20
1,1,2-Trichlorotrifluoroethane	0.608	0.589		-3.13	20
1,1-Dichloroethene	0.602	0.589		-2.16	20
Acetone	0.492	0.476		-3.25	20
Carbon Disulfide	1.694	1.516		-10.51	20
Methyl tert-butyl Ether	2.248	2.374		5.61	20
Methyl Acetate	1.644	1.615		-1.76	20
Methylene Chloride	0.797	0.746		-6.4	20
trans-1,2-Dichloroethene	0.645	0.636		-1.39	20
1,1-Dichloroethane	1.340	1.341	0.1	0.08	20
Cyclohexane	1.253	1.143		-8.78	20
2-Butanone	0.747	0.741		-0.8	20
Carbon Tetrachloride	0.474	0.441		-6.96	20
cis-1,2-Dichloroethene	0.784	0.766		-2.3	20
Bromochloromethane	0.637	0.606		-4.87	20
Chloroform	1.347	1.318		-2.15	20
1,1,1-Trichloroethane	1.089	1.086		-0.28	20
Methylcyclohexane	0.600	0.569		-5.17	20
Benzene	1.617	1.519		-6.06	20
1,2-Dichloroethane	0.636	0.609		-4.24	20
Trichloroethene	0.389	0.351		-9.77	20
1,2-Dichloropropane	0.438	0.419		-4.34	20
Bromodichloromethane	0.572	0.543		-5.07	20
4-Methyl-2-Pentanone	0.776	0.747		-3.74	20
Toluene	0.967	0.931		-3.72	20
t-1,3-Dichloropropene	0.596	0.583		-2.18	20
cis-1,3-Dichloropropene	0.646	0.626		-3.1	20
1,1,2-Trichloroethane	0.413	0.391		-5.33	20
2-Hexanone	0.623	0.601		-3.53	20
Dibromochloromethane	0.396	0.376		-5.05	20
1,2-Dibromoethane	0.434	0.414		-4.61	20
Tetrachloroethene	0.339	0.321		-5.31	20
Chlorobenzene	1.038	1.005	0.3	-3.18	20
Ethyl Benzene	1.853	1.891		2.05	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/25/2021 23:35

Lab File ID: VU044857.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.709	0.713		0.56	20
o-Xylene	0.685	0.710		3.65	20
Styrene	1.150	1.200		4.35	20
Bromoform	0.306	0.288	0.1	-5.88	20
Isopropylbenzene	3.549	3.759		5.92	20
1,1,2,2-Tetrachloroethane	1.617	1.591	0.3	-1.61	20
1,3-Dichlorobenzene	1.645	1.623		-1.34	20
1,4-Dichlorobenzene	1.701	1.626		-4.41	20
1,2-Dichlorobenzene	1.744	1.686		-3.33	20
1,2-Dibromo-3-Chloropropane	0.392	0.424		8.16	20
1,2,4-Trichlorobenzene	0.963	0.981		1.87	20
1,2,3-Trichlorobenzene	0.980	1.036		5.71	20
1,2-Dichloroethane-d4	0.873	0.893		2.29	20
Dibromofluoromethane	0.343	0.330		-3.79	20
Toluene-d8	1.295	1.256		-3.01	20
4-Bromofluorobenzene	0.481	0.461		-4.16	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:13 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	150134	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	282366	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	264988	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	127814	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	134006	51.143	ug/l	0.00
Spiked Amount 50.000			Recovery = 102.280%			
35) Dibromofluoromethane	5.295	113	93265	48.147	ug/l	0.00
Spiked Amount 50.000			Recovery = 96.300%			
50) Toluene-d8	7.903	98	354649	48.476	ug/l	0.00
Spiked Amount 50.000			Recovery = 96.960%			
62) 4-Bromofluorobenzene	10.636	95	130177	47.907	ug/l	0.00
Spiked Amount 50.000			Recovery = 95.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	85692	47.658	ug/l	99
3) Chloromethane	1.520	50	116952	42.859	ug/l	99
4) Vinyl Chloride	1.607	62	121519	47.715	ug/l	100
5) Bromomethane	1.851	94	65811	53.476	ug/l	99
6) Chloroethane	1.929	64	81888	47.899	ug/l	99
7) Trichlorofluoromethane	2.138	101	154749	49.478	ug/l	99
8) Diethyl Ether	2.379	74	73461	51.308	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.581	101	88480	48.442	ug/l	97
10) Methyl Iodide	2.726	142	84079	42.362	ug/l	97
11) Tert butyl alcohol	3.208	59	180829	236.446	ug/l #	88
12) 1,1-Dichloroethene	2.581	96	88458	48.935	ug/l	97
13) Acrolein	2.491	56	69238	335.305	ug/l	98
14) Allyl chloride	2.929	41	167546	47.752	ug/l	98
15) Acrylonitrile	3.321	53	400727	250.841	ug/l	99
16) Acetone	2.636	43	357274	241.728	ug/l	100
17) Carbon Disulfide	2.797	76	227653	44.767	ug/l	100
18) Methyl Acetate	2.951	43	242405	49.092	ug/l	99
19) Methyl tert-butyl Ether	3.369	73	356432	52.803	ug/l	100
20) Methylene Chloride	3.051	84	112012	46.817	ug/l	98
21) trans-1,2-Dichloroethene	3.356	96	95450	49.316	ug/l	95
22) Diisopropyl ether	3.999	45	353420	50.981	ug/l	98
23) Vinyl Acetate	3.961	43	1475537	259.549	ug/l	99
24) 1,1-Dichloroethane	3.877	63	201309	50.029	ug/l	99
25) 2-Butanone	4.710	43	556069	247.960	ug/l	99
26) 2,2-Dichloropropane	4.671	77	130533	43.257	ug/l	98
27) cis-1,2-Dichloroethene	4.671	96	115061	48.880	ug/l	98
28) Bromochloromethane	4.980	49	90987	47.584	ug/l	97
29) Tetrahydrofuran	5.057	42	357029	253.059	ug/l	98
30) Chloroform	5.092	83	197880	48.909	ug/l	99
31) Cyclohexane	5.391	56	171586	45.612	ug/l	99
32) 1,1,1-Trichloroethane	5.321	97	163009	49.865	ug/l	100
36) 1,1-Dichloropropene	5.530	75	139299	46.496	ug/l	99
37) Ethyl Acetate	4.810	43	208357	47.398	ug/l	100
38) Carbon Tetrachloride	5.530	117	124664	46.544	ug/l	99
39) Methylcyclohexane	6.768	83	160599	47.396	ug/l	98
40) Benzene	5.777	78	428970	46.963	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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9/27/2021 11:03:13 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.977	41	107866	49.159	ug/l		98
42) 1,2-Dichloroethane	5.800	62	171878	47.830	ug/l		99
43) Isopropyl Acetate	5.916	43	299174	48.645	ug/l		99
44) Trichloroethene	6.546	130	99214	45.194	ug/l		99
45) 1,2-Dichloropropane	6.793	63	118381	47.888	ug/l		99
46) Dibromomethane	6.922	93	78990	48.222	ug/l		99
47) Bromodichloromethane	7.108	83	153237	47.425	ug/l		99
48) Methyl methacrylate	6.964	41	142416	49.061	ug/l		98
49) 1,4-Dioxane	6.983	88	73491	990.593	ug/l		98
51) 4-Methyl-2-Pentanone	7.797	43	1054054	240.476	ug/l		99
52) Toluene	7.973	92	262940	48.149	ug/l		99
53) t-1,3-Dichloropropene	8.215	75	164574	48.889	ug/l		99
54) cis-1,3-Dichloropropene	7.610	75	176754	48.485	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	110411	47.289	ug/l		98
56) Ethyl methacrylate	8.337	69	188614	45.527	ug/l		99
57) 1,3-Dichloropropane	8.578	76	198794	47.816	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.465	63	361390	350.842	ug/l		100
59) 2-Hexanone	8.690	43	849129	241.345	ug/l		100
60) Dibromochloromethane	8.813	129	106229	47.512	ug/l		100
61) 1,2-Dibromoethane	8.928	107	116778	47.634	ug/l		99
64) Tetrachloroethene	8.555	164	85162	47.414	ug/l		99
65) Chlorobenzene	9.449	112	266185	48.388	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.536	131	94614	48.221	ug/l		99
67) Ethyl Benzene	9.575	91	501168	51.042	ug/l		98
68) m/p-Xylenes	9.697	106	377743	100.588	ug/l		97
69) o-Xylene	10.102	106	188100	51.800	ug/l		99
70) Styrene	10.118	104	317880	46.900	ug/l		99
71) Bromoform	10.295	173	76243	46.962	ug/l	#	100
73) Isopropylbenzene	10.488	105	480429	52.959	ug/l		99
74) N-amyl acetate	10.324	43	251362	54.364	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.787	83	203335	49.199	ug/l		100
76) 1,2,3-Trichloropropane	10.829	75	195000m	50.382	ug/l		
77) Bromobenzene	10.784	156	110456	50.965	ug/l		98
78) n-propylbenzene	10.909	91	585204	53.238	ug/l		100
79) 2-Chlorotoluene	10.989	91	346580	51.734	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	411807	53.592	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.549	75	59634	49.912	ug/l		100
82) 4-Chlorotoluene	11.099	91	404246	53.002	ug/l		99
83) tert-Butylbenzene	11.423	119	392467	52.945	ug/l		98
84) 1,2,4-Trimethylbenzene	11.472	105	416875	55.029	ug/l		99
85) sec-Butylbenzene	11.645	105	526513	54.928	ug/l		100
86) p-Isopropyltoluene	11.796	119	422603	54.194	ug/l		99
87) 1,3-Dichlorobenzene	11.748	146	207421	49.317	ug/l		100
88) 1,4-Dichlorobenzene	11.838	146	207800	47.776	ug/l		98
89) n-Butylbenzene	12.211	91	384970	47.980	ug/l		99
90) Hexachloroethane	12.478	117	73320	52.179	ug/l		94
91) 1,2-Dichlorobenzene	12.214	146	215509	48.352	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.999	75	54154	54.038	ug/l		96
93) 1,2,4-Trichlorobenzene	13.841	180	125354	50.898	ug/l		100
94) Hexachlorobutadiene	14.025	225	50375	45.978	ug/l		99
95) Naphthalene	14.089	128	513622	52.347	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	132364	52.853	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
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Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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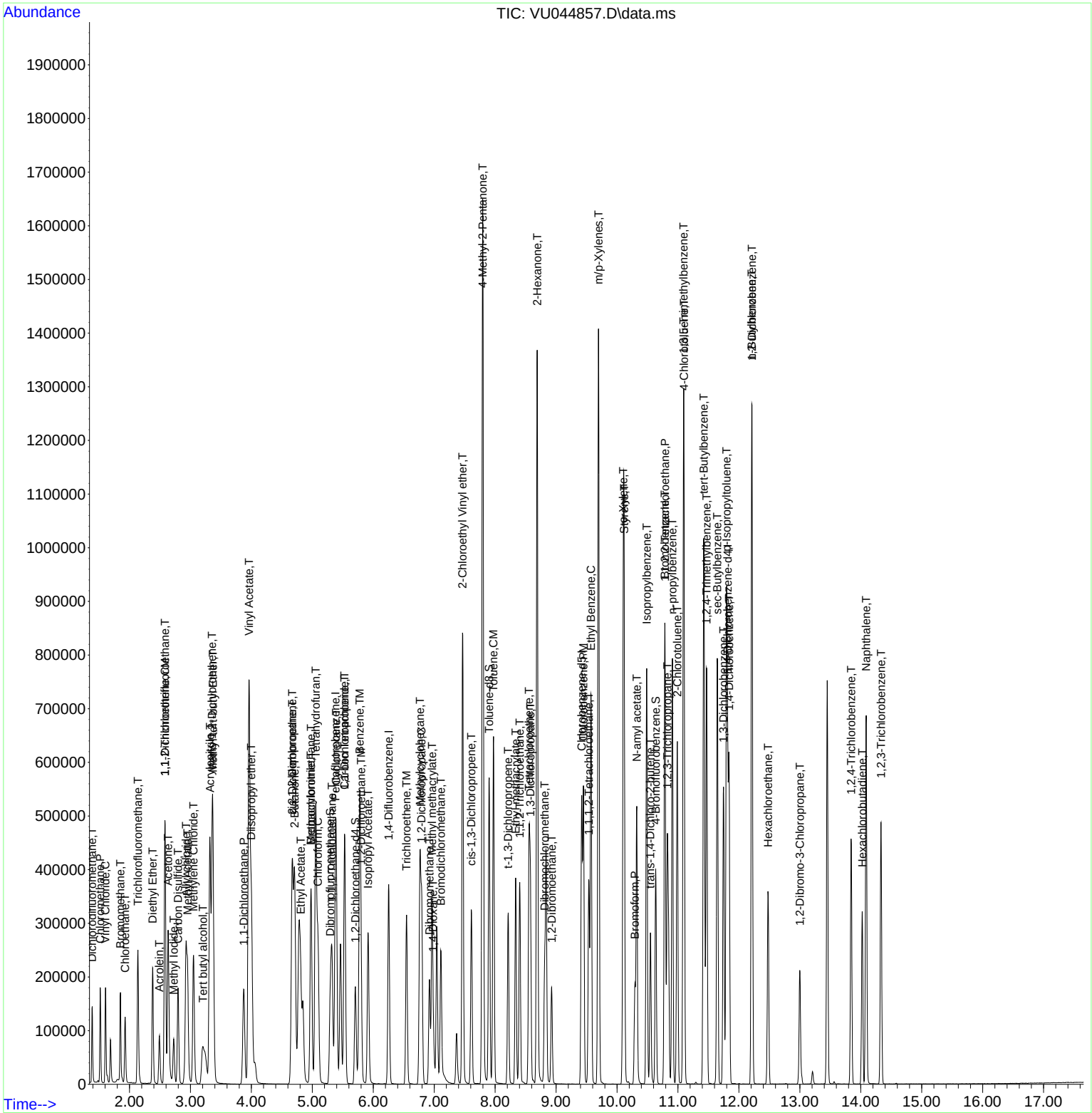

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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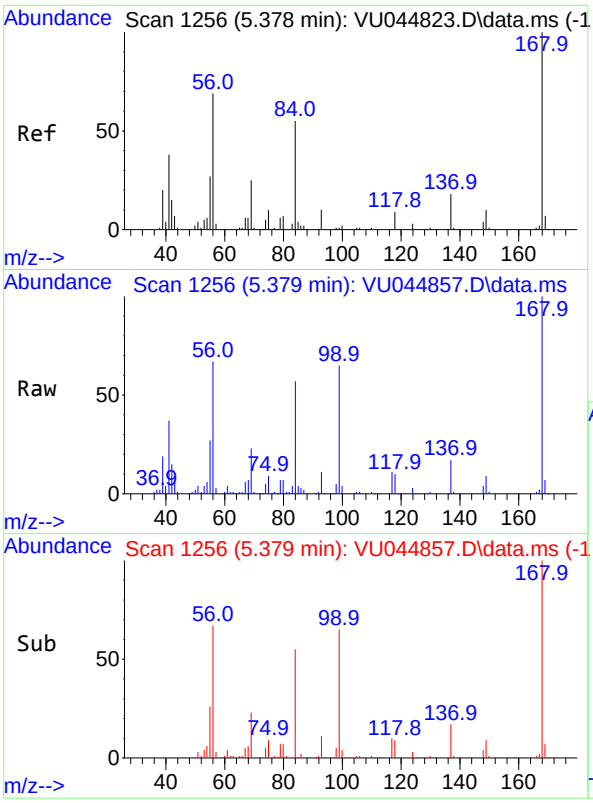
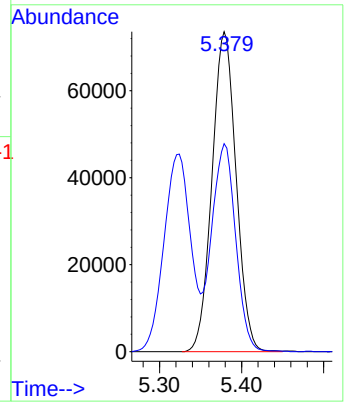
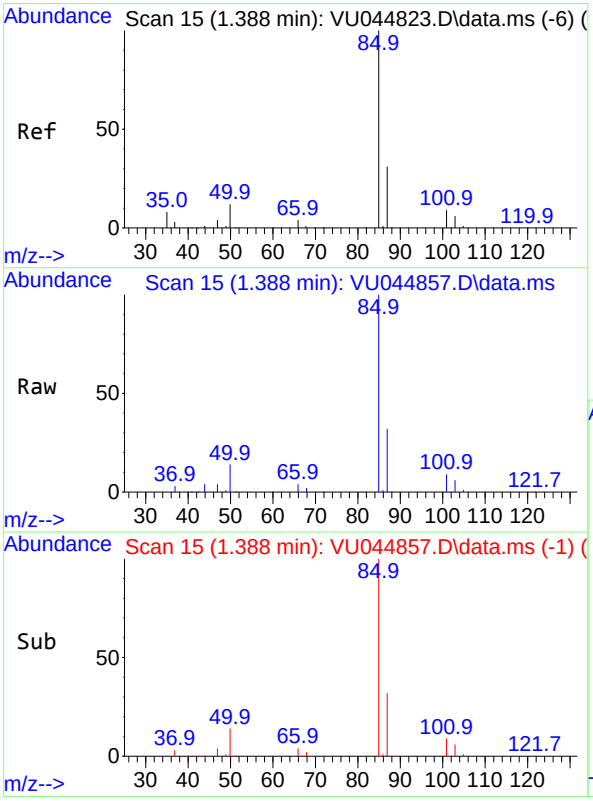


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:168 Resp: 150134

Ion	Ratio	Lower	Upper
168	100		
99	64.8	51.4	77.0

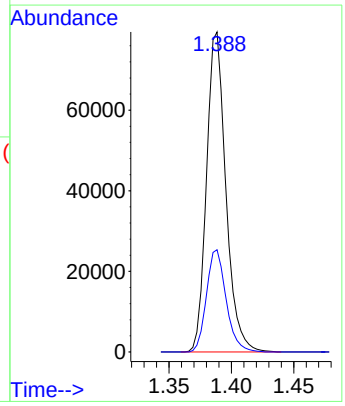




#2
Dichlorodifluoromethane
Concen: 47.658 ug/l
RT: 1.388 min Scan# 15
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 85 Resp: 85692

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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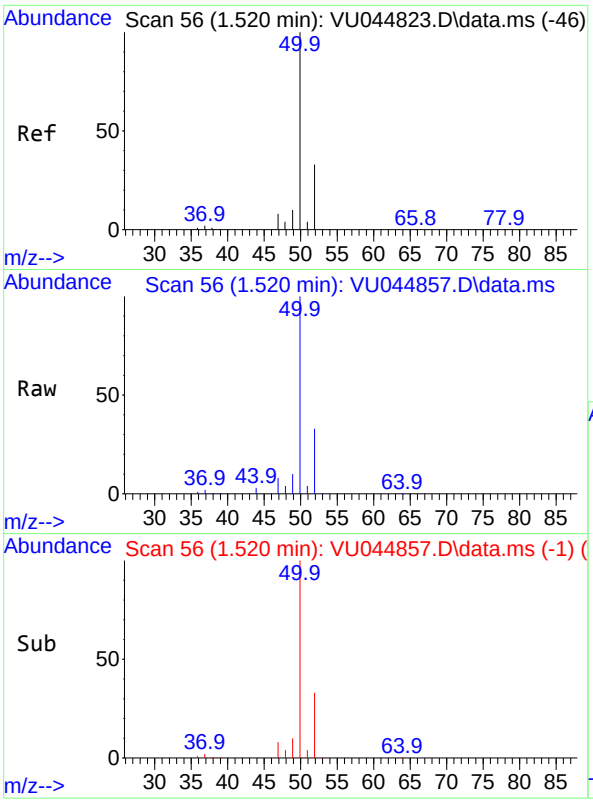
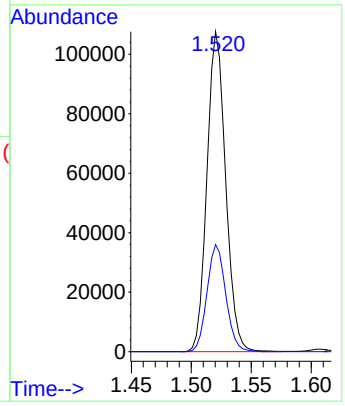
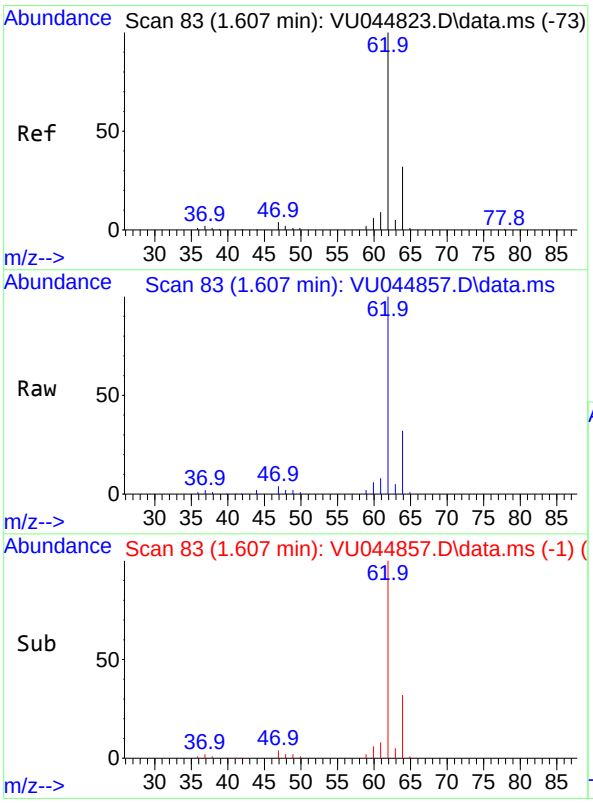


#3
Chloromethane
Concen: 42.859 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 50 Resp: 116952

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.3	39.5

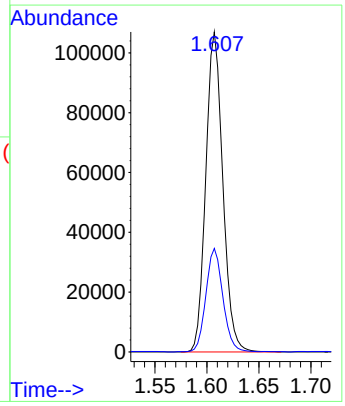




#4
Vinyl Chloride
Concen: 47.715 ug/l
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 62 Resp: 121519

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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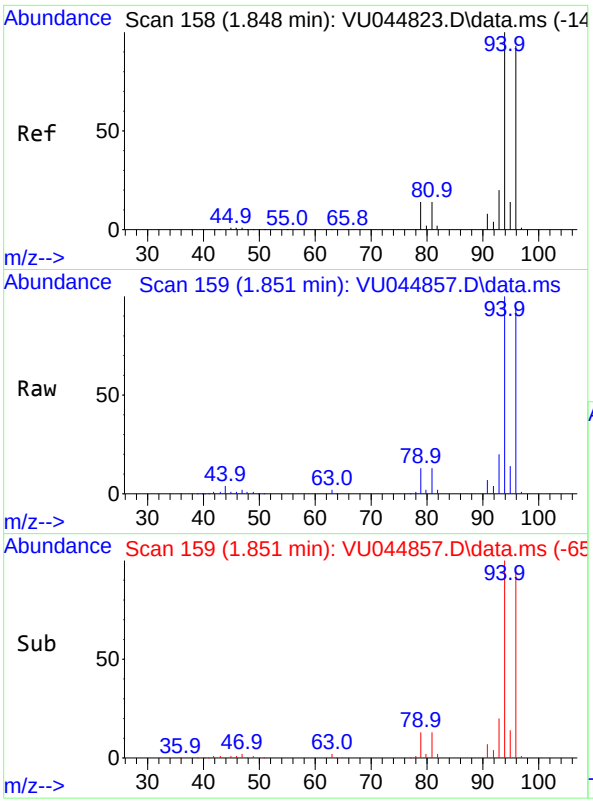
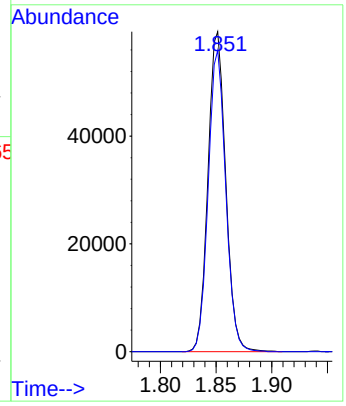
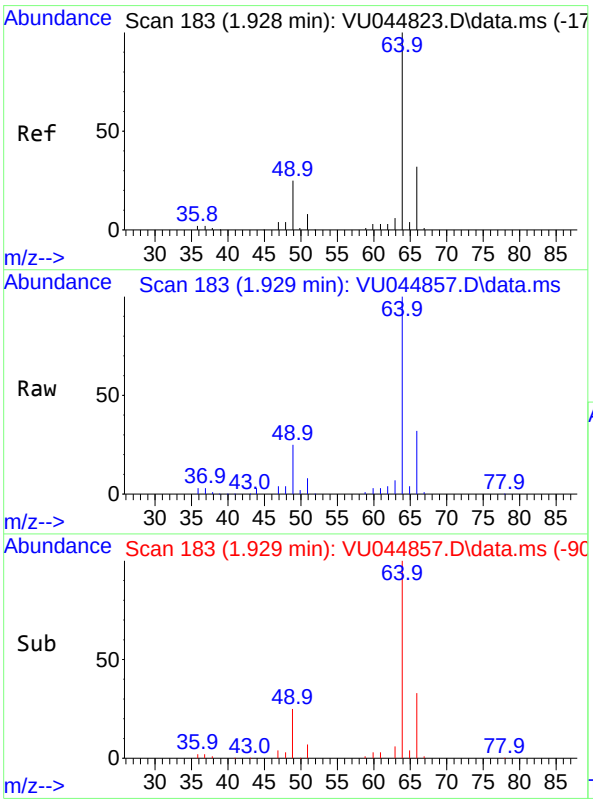


#5
Bromomethane
Concen: 53.476 ug/l
RT: 1.851 min Scan# 159
Delta R.T. 0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 94 Resp: 65811

Ion	Ratio	Lower	Upper
94	100		
96	94.2	74.5	111.7

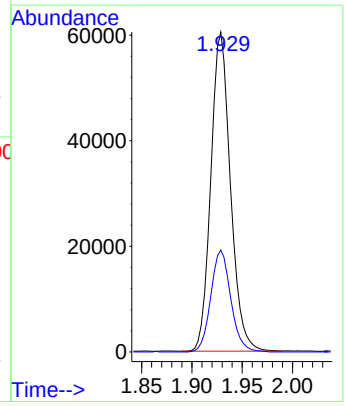




#6
Chloroethane
Concen: 47.899 ug/l
RT: 1.929 min Scan# 183
Delta R.T. 0.001 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 64 Resp: 81888

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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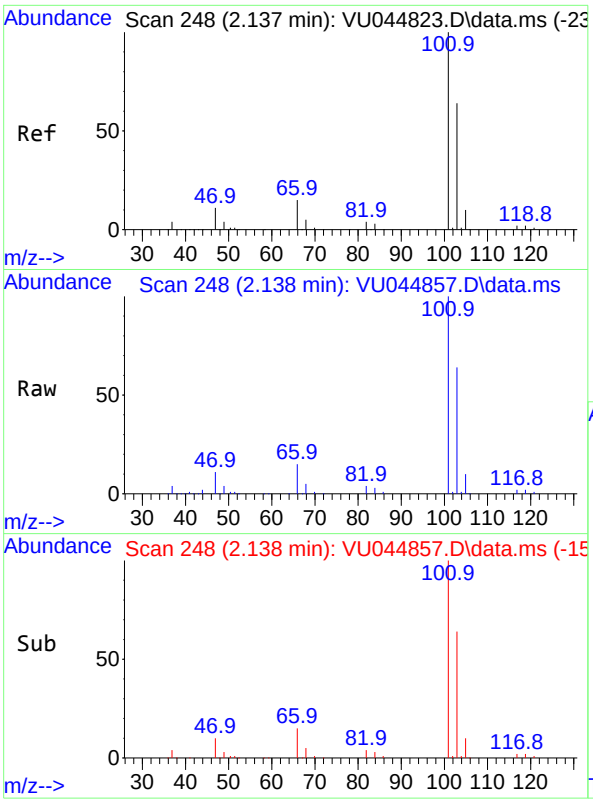
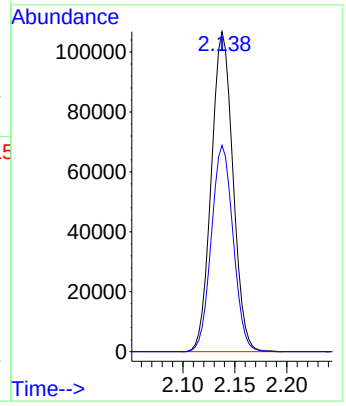
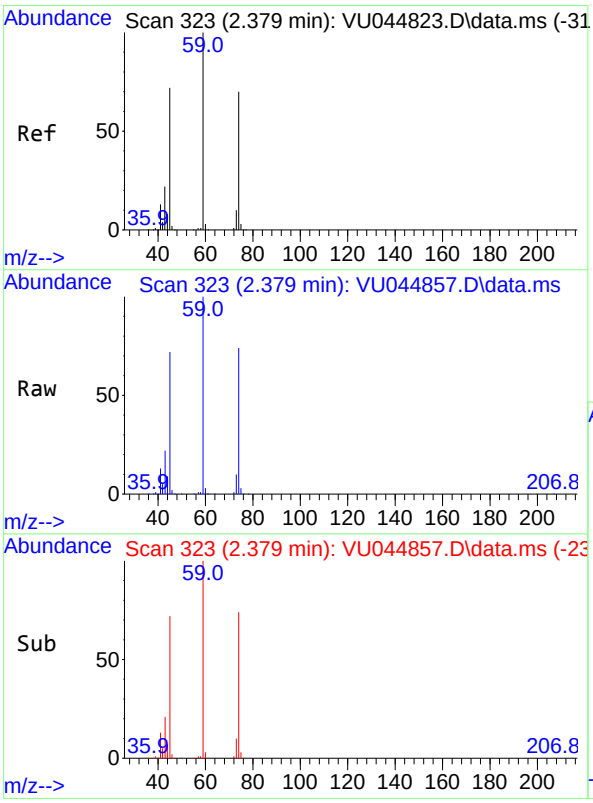


#7
Trichlorofluoromethane
Concen: 49.478 ug/l
RT: 2.138 min Scan# 248
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:101 Resp: 154749

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.2	76.8

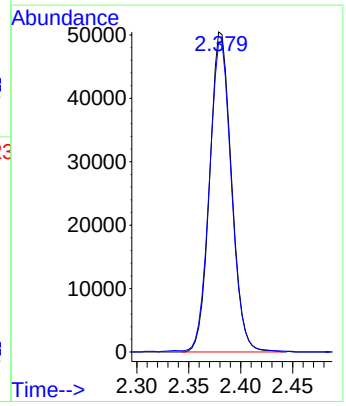




#8
Diethyl Ether
Concen: 51.308 ug/l
RT: 2.379 min Scan# 323
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 74 Resp: 73461

Ion	Ratio	Lower	Upper
74	100		
45	98.9	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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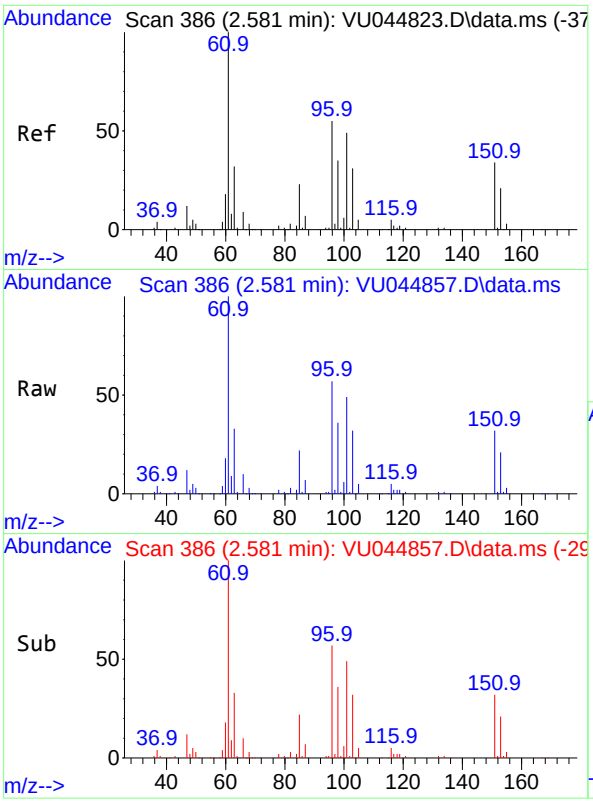
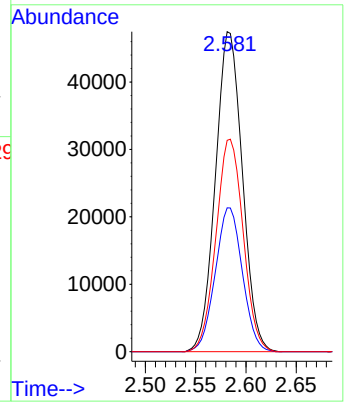
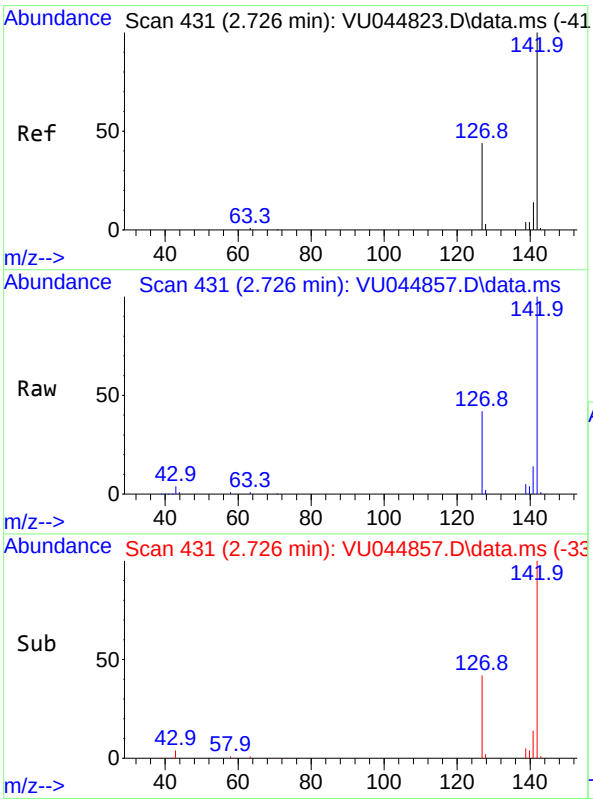


#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.442 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:101 Resp: 88480

Ion	Ratio	Lower	Upper
101	100		
85	45.4	37.2	55.8
151	67.1	55.8	83.8

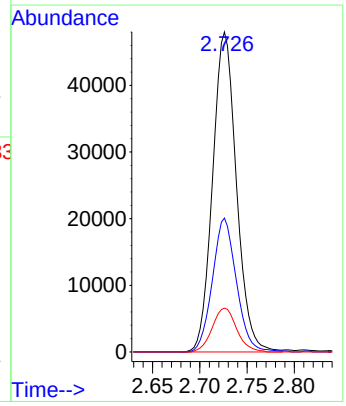




#10
Methyl Iodide
Concen: 42.362 ug/l
RT: 2.726 min Scan# 431
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:142 Resp: 84079

Ion	Ratio	Lower	Upper
142	100		
127	42.2	35.6	53.4
141	14.1	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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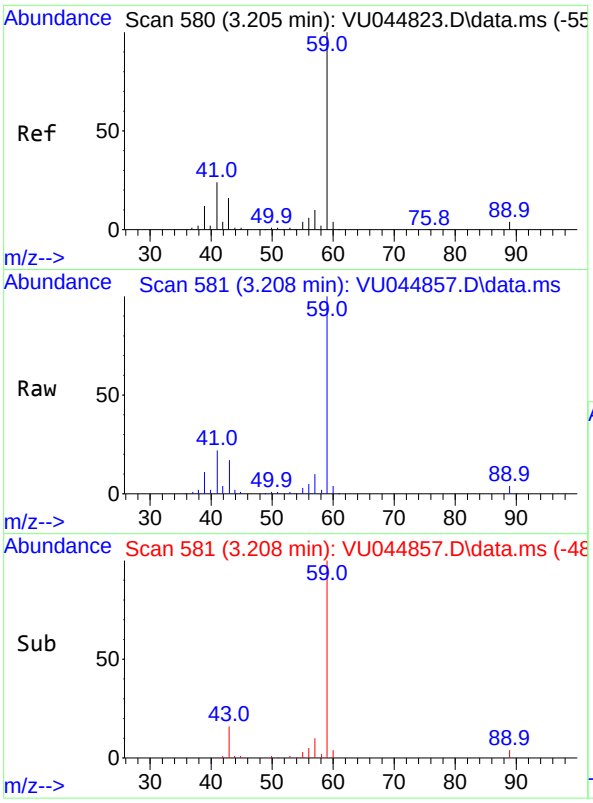
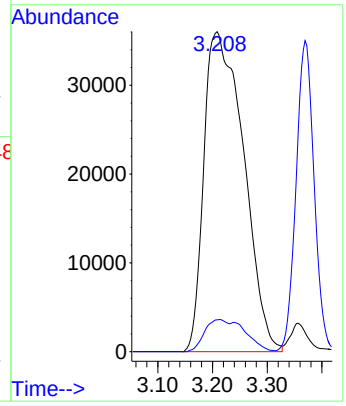
9/27/2021 11:03:13 AM

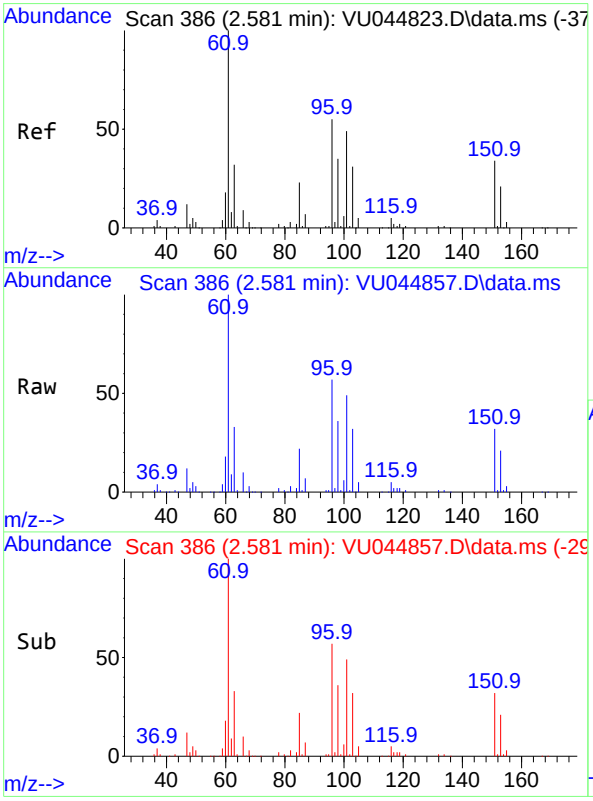


#11
Tert butyl alcohol
Concen: 236.446 ug/l
RT: 3.208 min Scan# 581
Delta R.T. 0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 59 Resp: 180829

Ion	Ratio	Lower	Upper
59	100		
57	5.9	8.3	12.5#

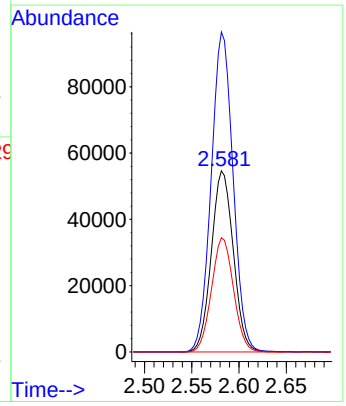




#12
1,1-Dichloroethene
Concen: 48.935 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 96 Resp: 88458

Ion	Ratio	Lower	Upper
96	100		
61	176.6	145.4	218.0
98	63.0	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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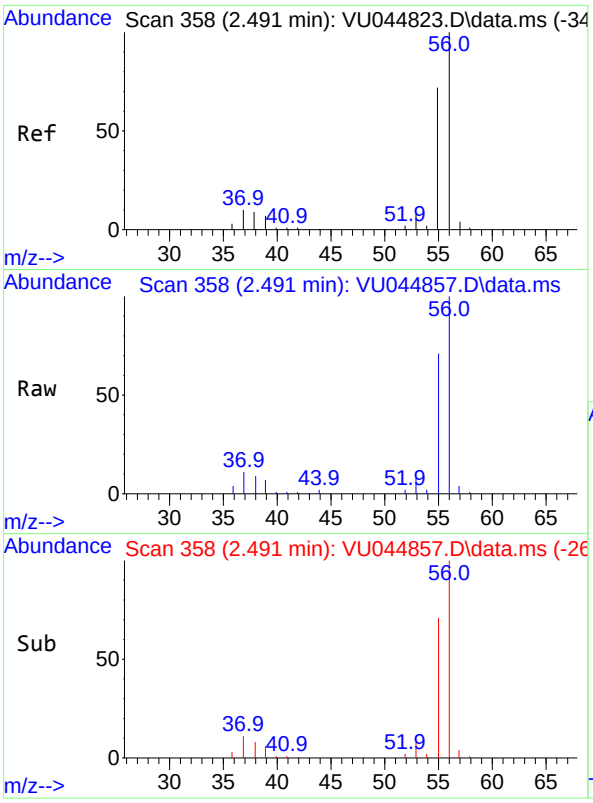
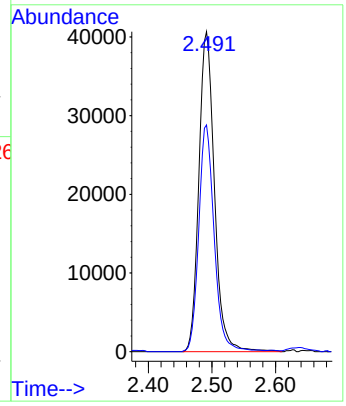
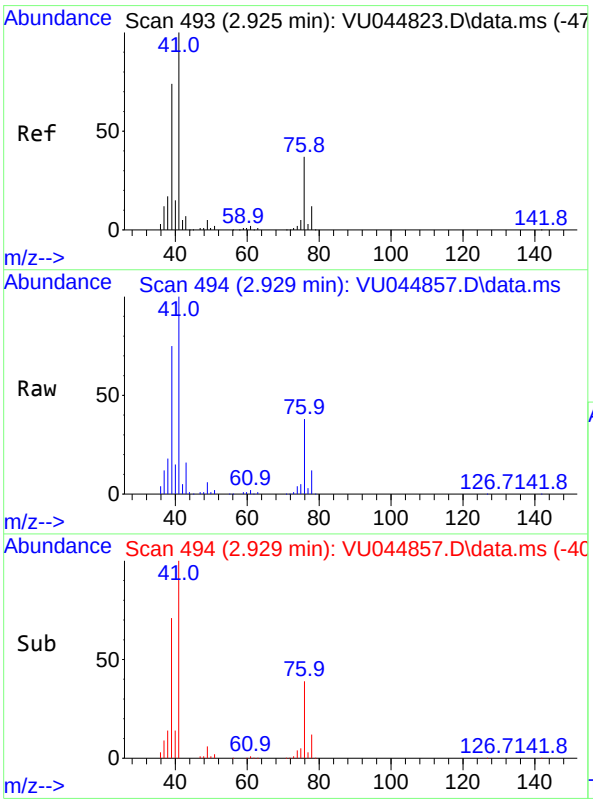


#13
Acrolein
Concen: 335.305 ug/l
RT: 2.491 min Scan# 358
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 56 Resp: 69238

Ion	Ratio	Lower	Upper
56	100		
55	70.1	57.4	86.0

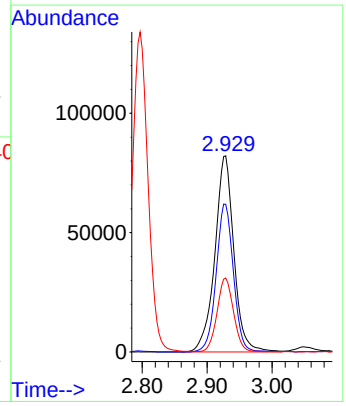




#14
Allyl chloride
Concen: 47.752 ug/l
RT: 2.929 min Scan# 494
Delta R.T. 0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 41 Resp: 167546

Ion	Ratio	Lower	Upper
41	100		
39	68.2	53.0	79.6
76	32.2	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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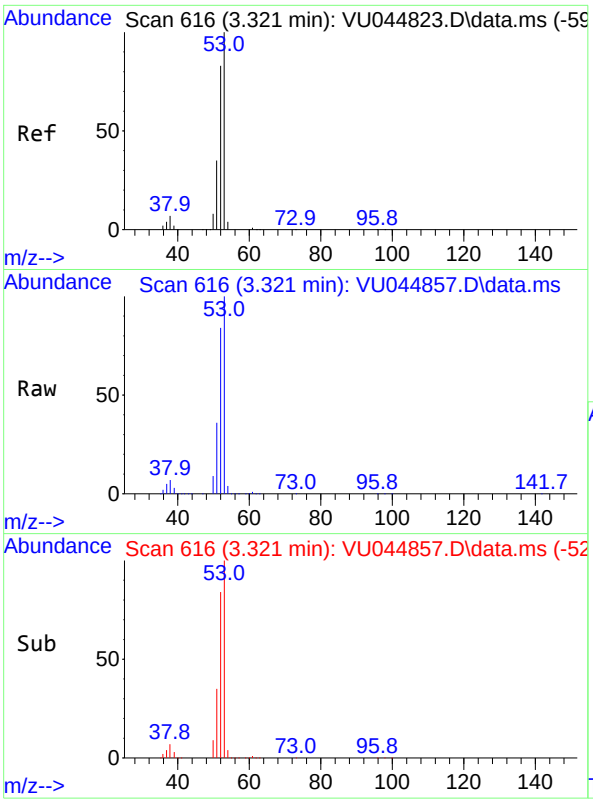
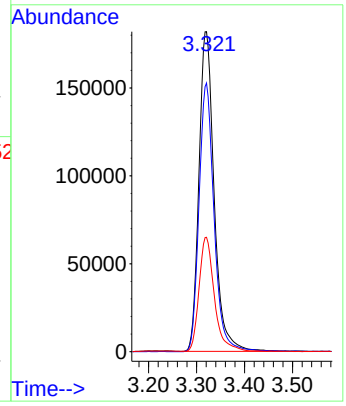
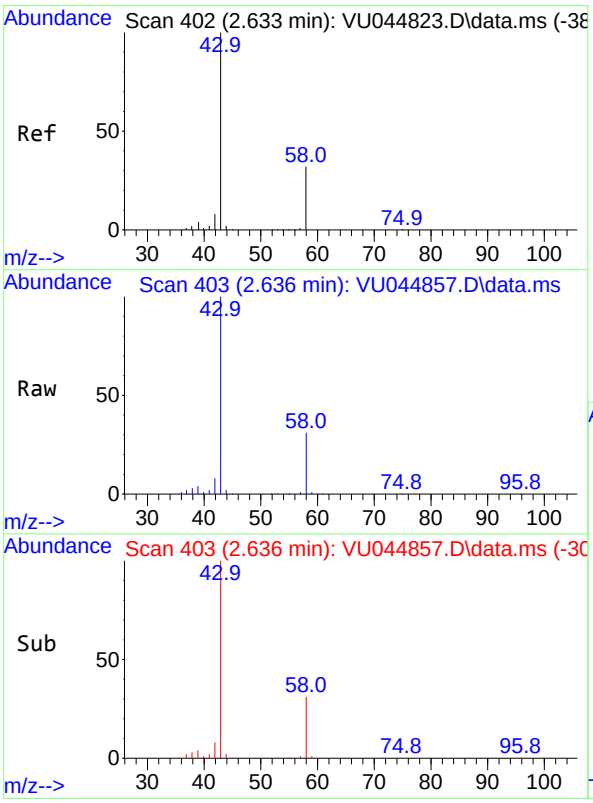


#15
Acrylonitrile
Concen: 250.841 ug/l
RT: 3.321 min Scan# 616
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 53 Resp: 400727

Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.0	99.0
51	36.0	28.6	42.8

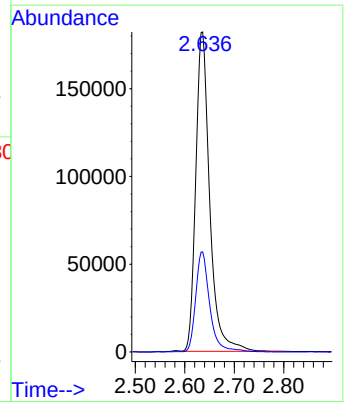




#16
Acetone
Concen: 241.728 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 357274

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.2	37.8



Instrument :
MSVOA_U
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VSTDCCC050

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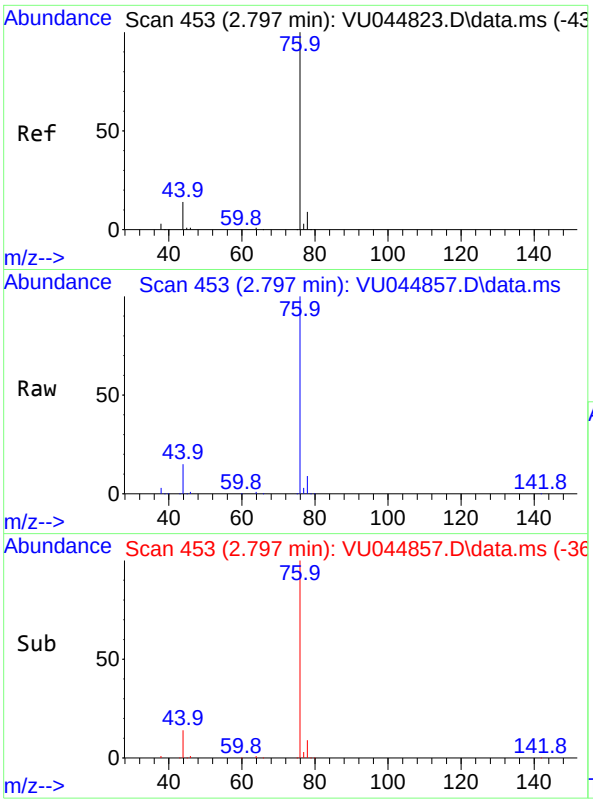
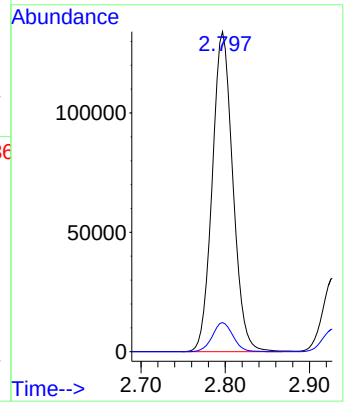
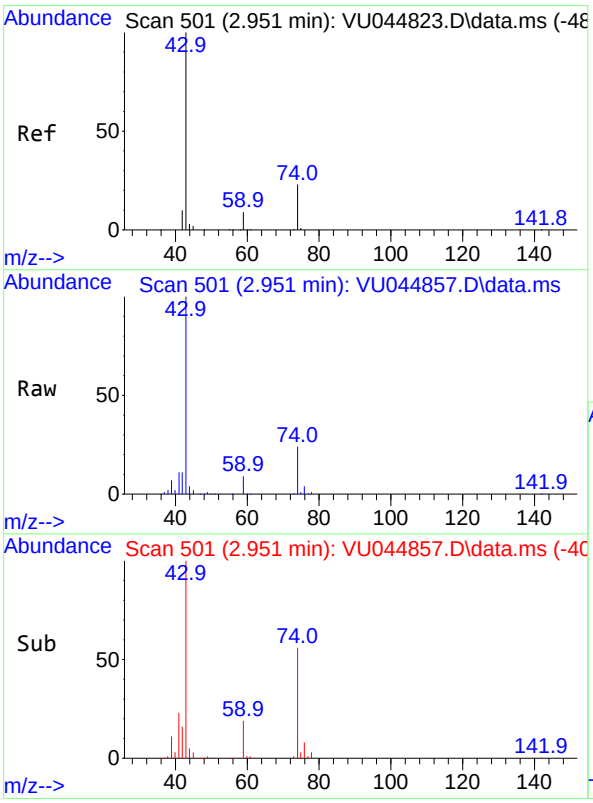


#17
Carbon Disulfide
Concen: 44.767 ug/l
RT: 2.797 min Scan# 453
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 76 Resp: 227653

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

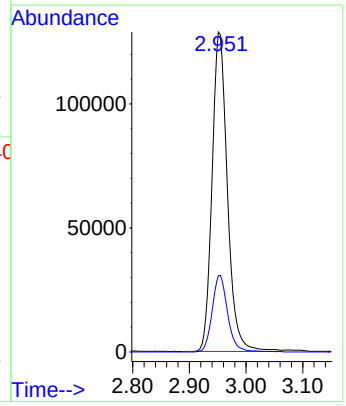




#18
Methyl Acetate
Concen: 49.092 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 242405

Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.0	28.6



Instrument :
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ClientSampleId :
VSTDCCC050

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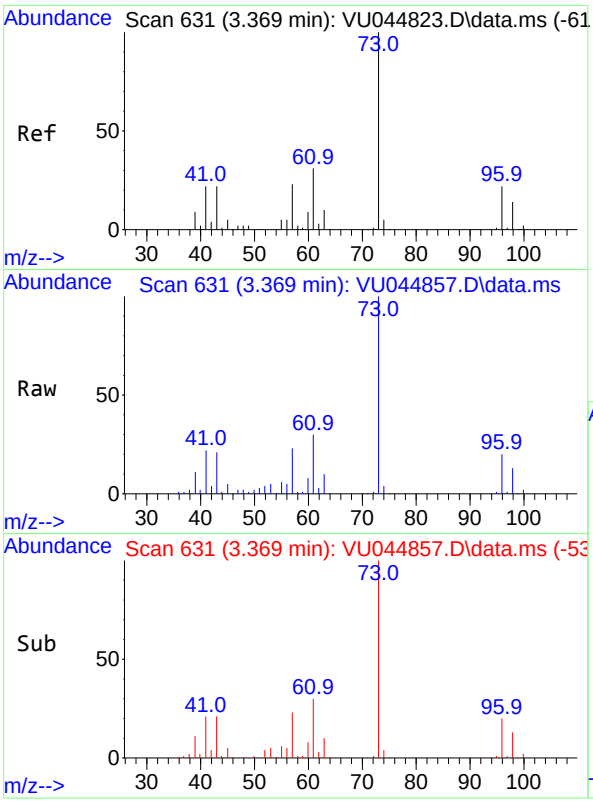
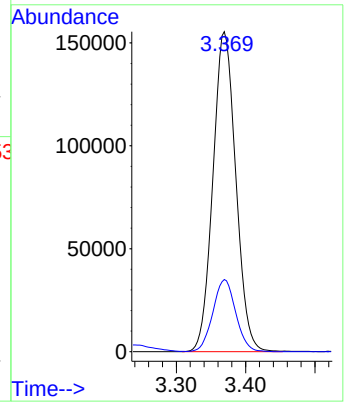
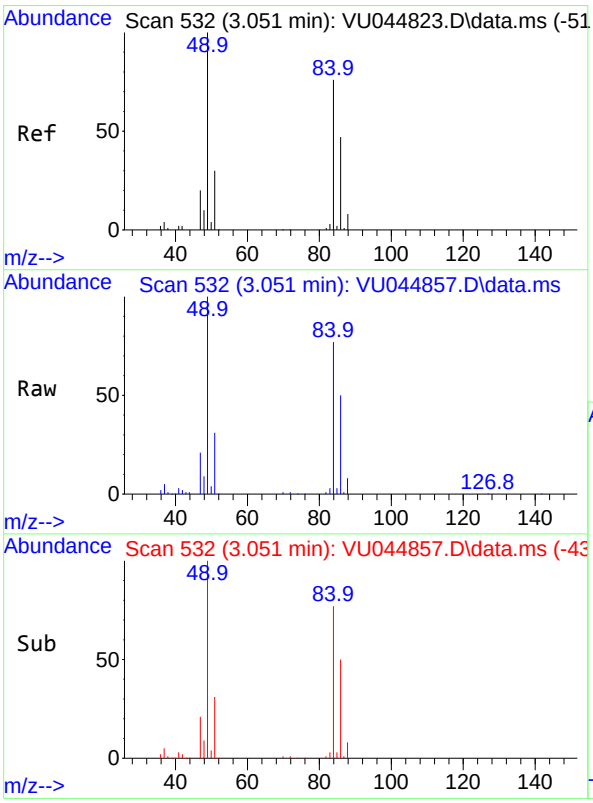


#19
Methyl tert-butyl Ether
Concen: 52.803 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 73 Resp: 356432

Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.2	27.2

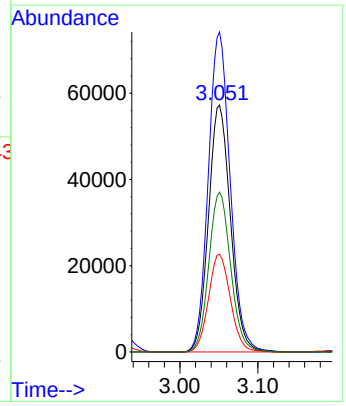




#20
Methylene Chloride
Concen: 46.817 ug/l
RT: 3.051 min Scan# 532
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 84 Resp: 112012

Ion	Ratio	Lower	Upper
84	100		
49	129.6	104.9	157.3
51	39.6	31.8	47.8
86	64.7	49.8	74.6



Instrument :
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ClientSampleId :
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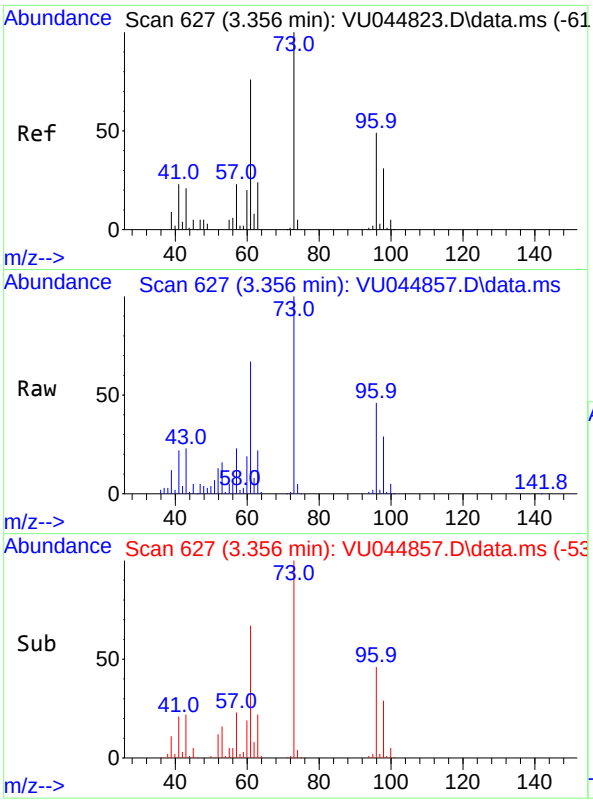
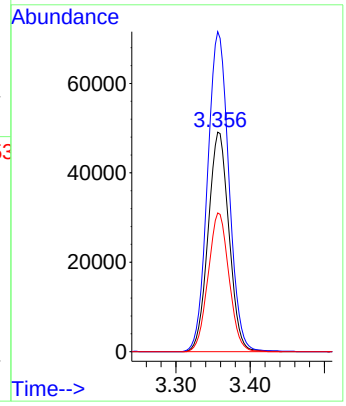
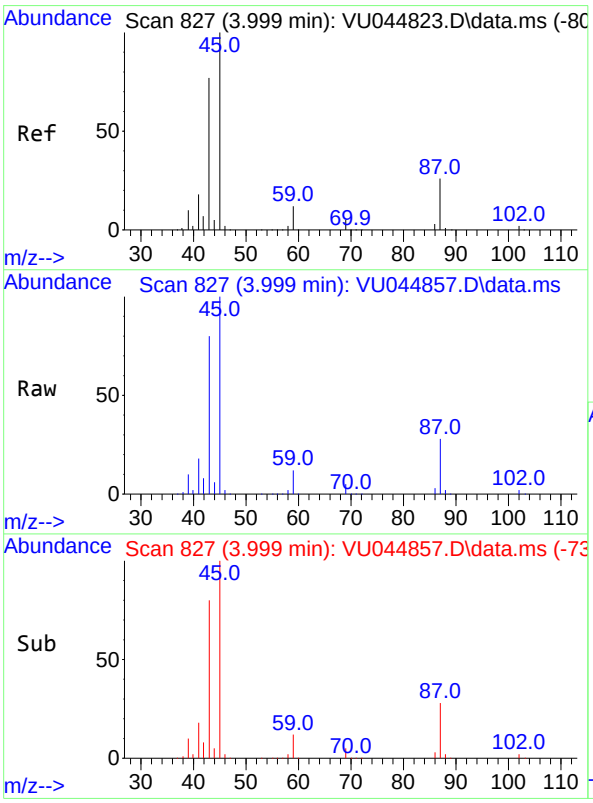


#21
trans-1,2-Dichloroethene
Concen: 49.316 ug/l
RT: 3.356 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 96 Resp: 95450

Ion	Ratio	Lower	Upper
96	100		
61	145.8	123.2	184.8
98	63.2	51.0	76.6

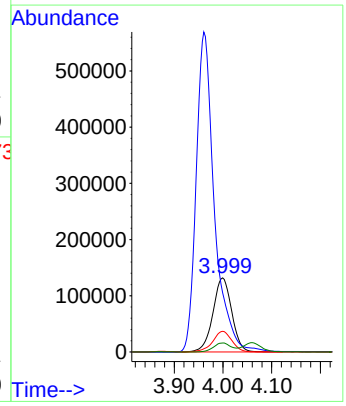




#22
Diisopropyl ether
Concen: 50.981 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 45 Resp: 353420

Ion	Ratio	Lower	Upper
45	100		
43	78.9	62.3	93.5
87	27.8	21.0	31.4
59	12.1	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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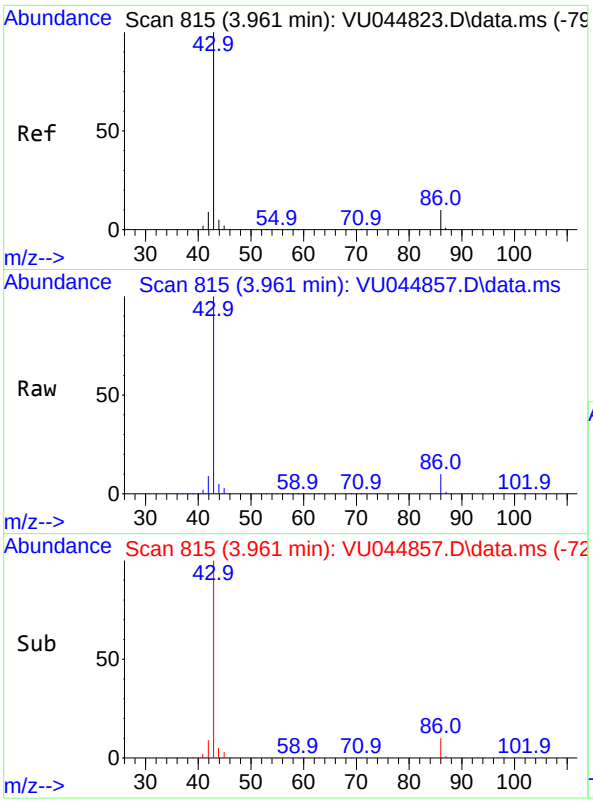
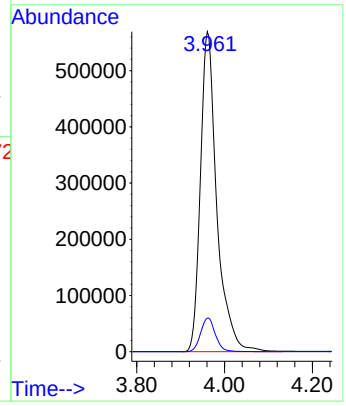
9/27/2021 11:03:13 AM

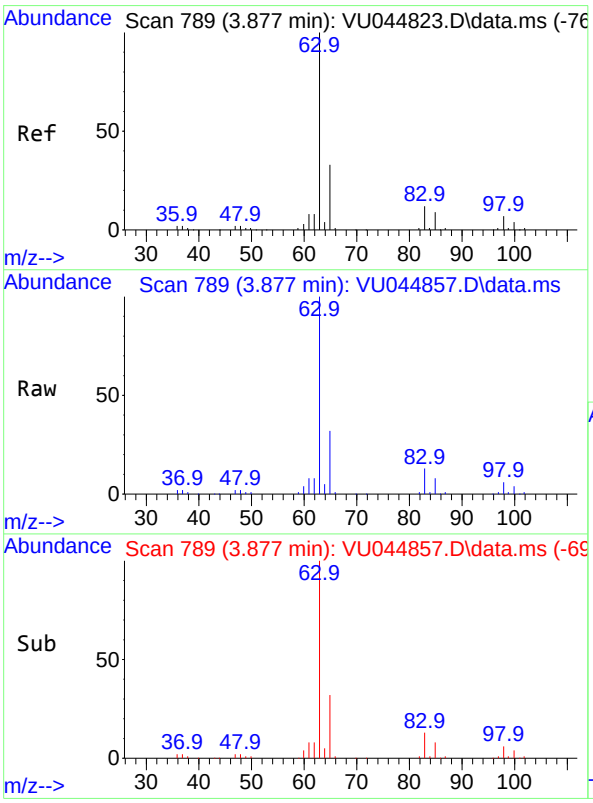


#23
Vinyl Acetate
Concen: 259.549 ug/l
RT: 3.961 min Scan# 815
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 1475537

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.4

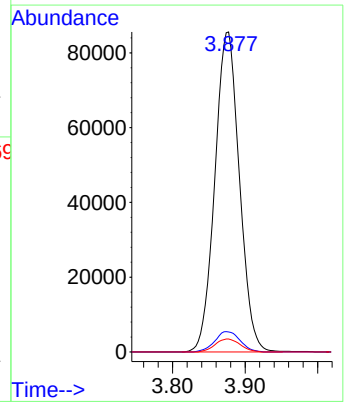




#24
1,1-Dichloroethane
Concen: 50.029 ug/l
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 63 Resp: 201309

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.5	10.4
100	4.1	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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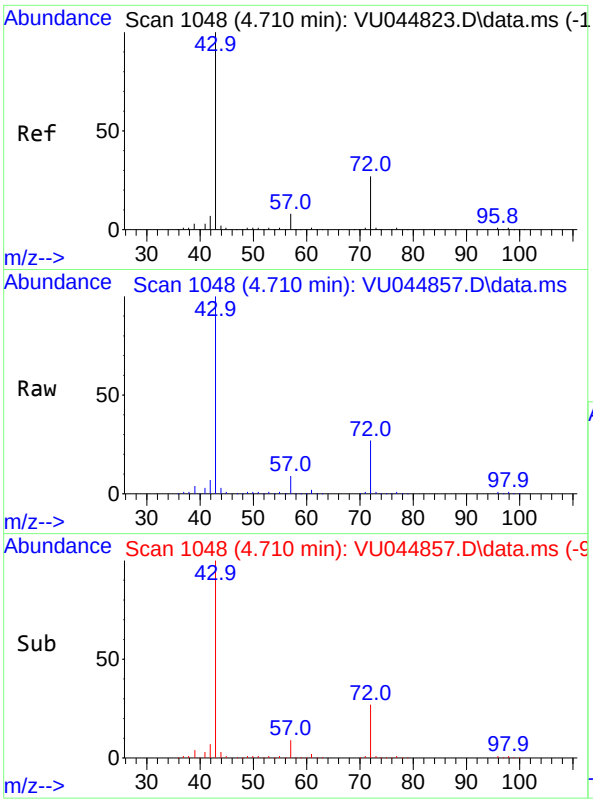
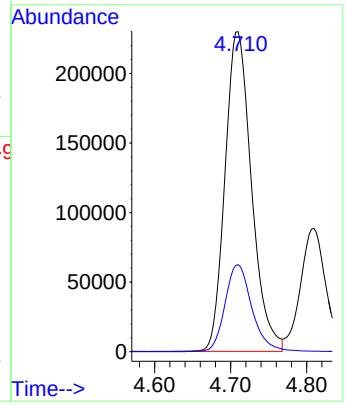
9/27/2021 11:03:13 AM

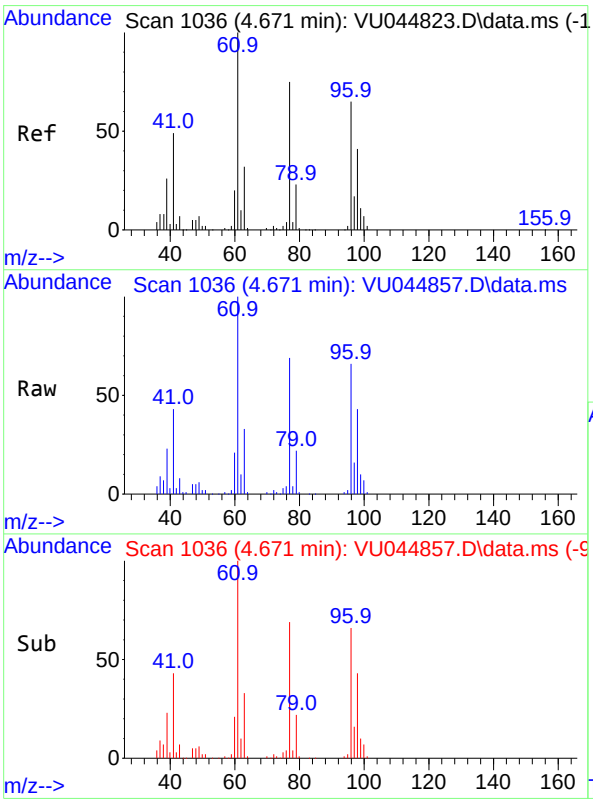


#25
2-Butanone
Concen: 247.960 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 556069

Ion	Ratio	Lower	Upper
43	100		
72	27.2	21.3	31.9

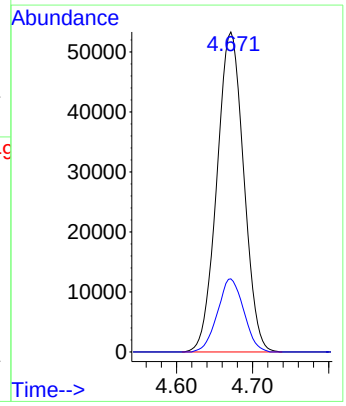




#26
2,2-Dichloropropane
Concen: 43.257 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 77 Resp: 130533

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.8	32.4



Instrument :
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ClientSampleId :
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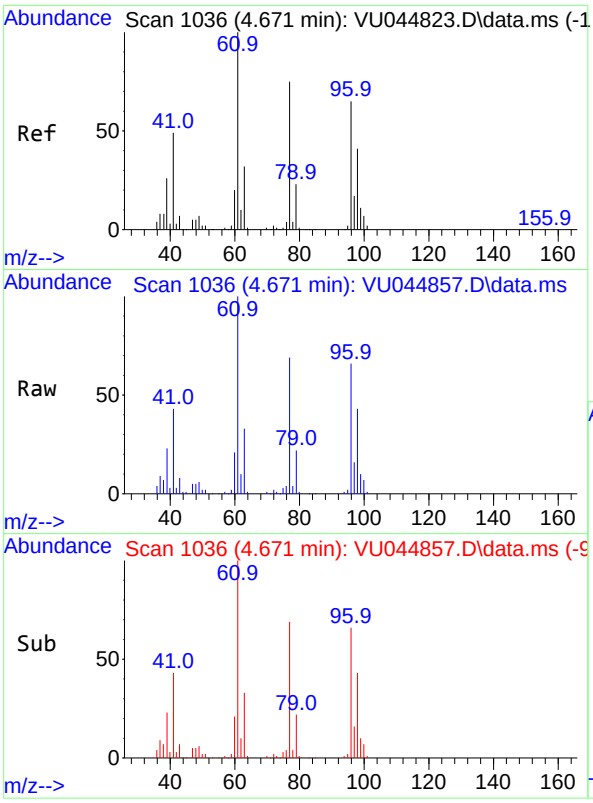
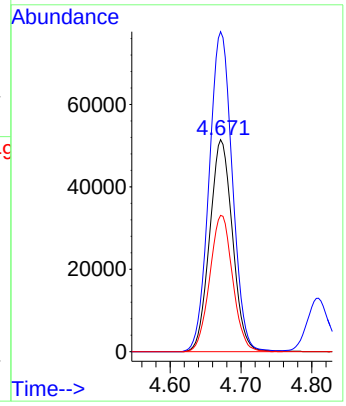
9/27/2021 11:03:13 AM

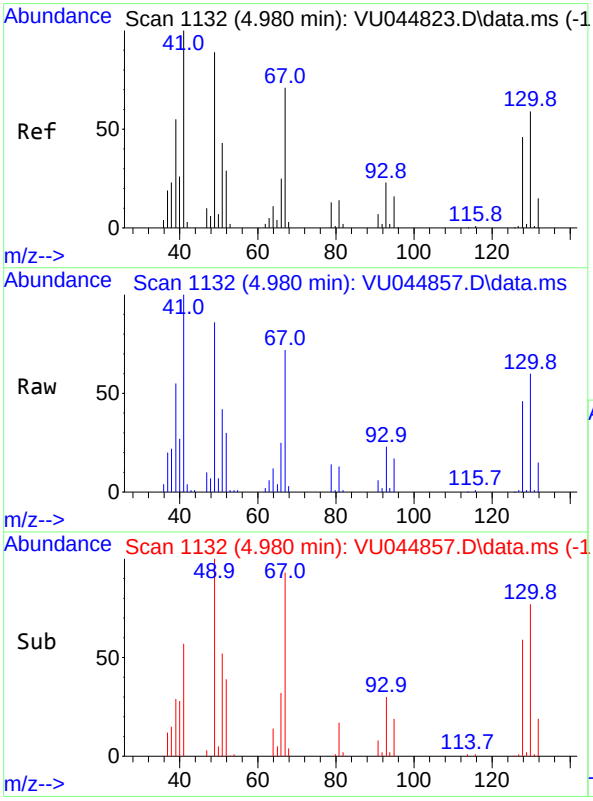


#27
cis-1,2-Dichloroethene
Concen: 48.880 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 96 Resp: 115061

Ion	Ratio	Lower	Upper
96	100		
61	153.6	0.0	313.4
98	64.6	0.0	127.0

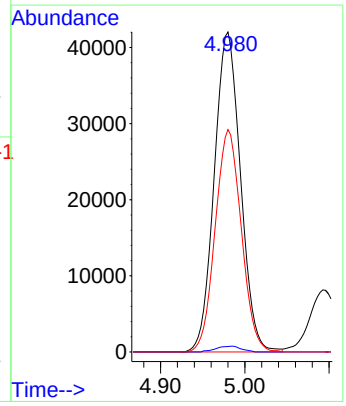




#28
Bromochloromethane
Concen: 47.584 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 49 Resp: 90987

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	69.1	53.4	80.2



Instrument :
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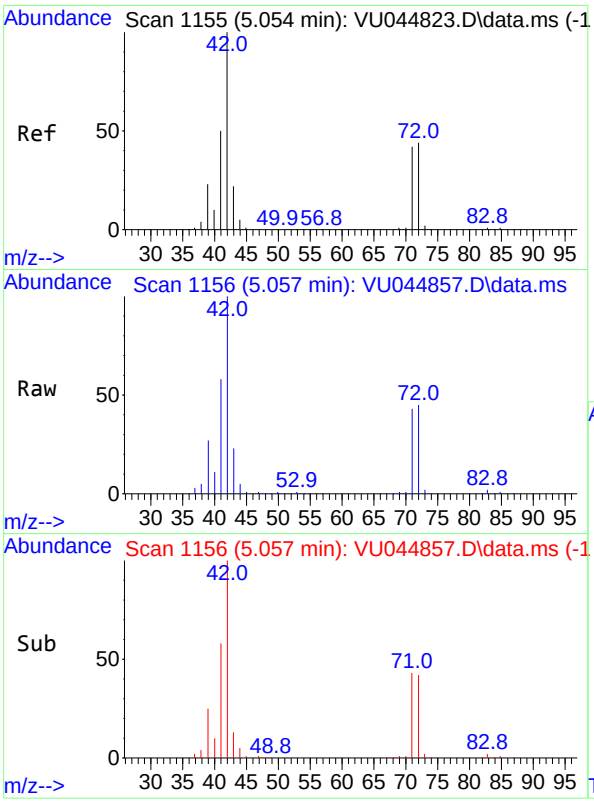
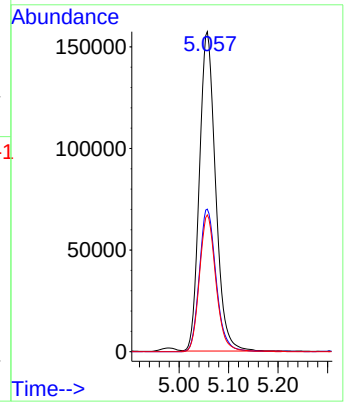
9/27/2021 11:03:13 AM

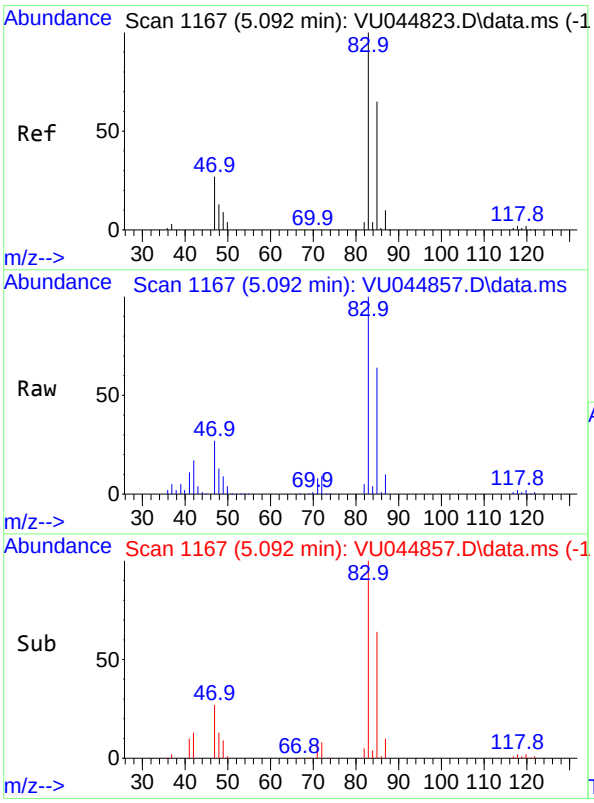


#29
Tetrahydrofuran
Concen: 253.059 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 42 Resp: 357029

Ion	Ratio	Lower	Upper
42	100		
72	46.4	36.2	54.4
71	43.5	34.1	51.1

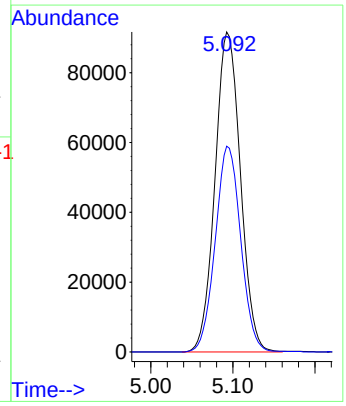




#30
Chloroform
Concen: 48.909 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 83 Resp: 197880

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1



Instrument :
MSVOA_U
ClientSampleId :
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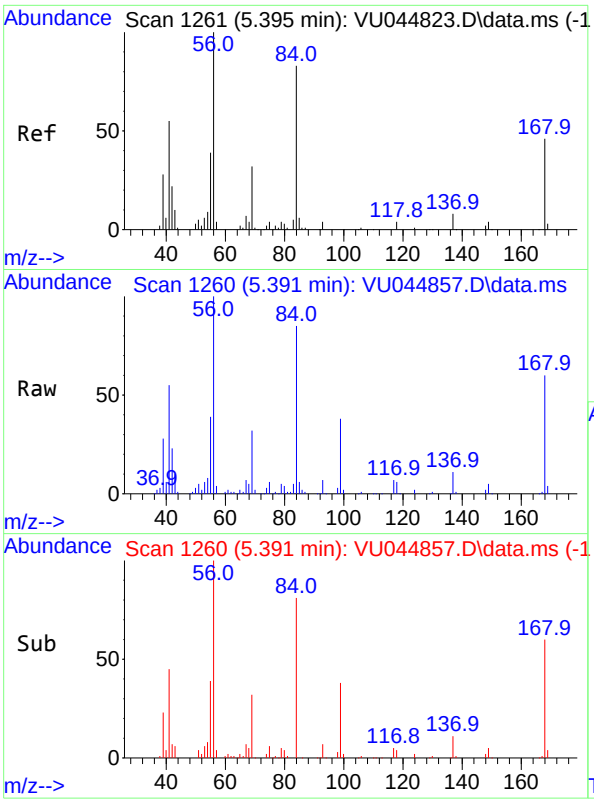
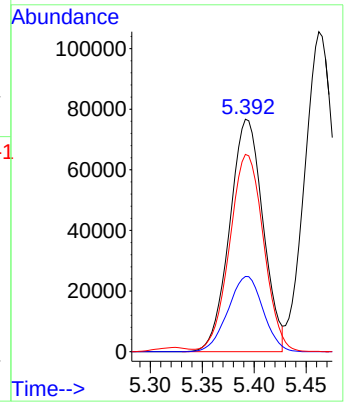
9/27/2021 11:03:13 AM

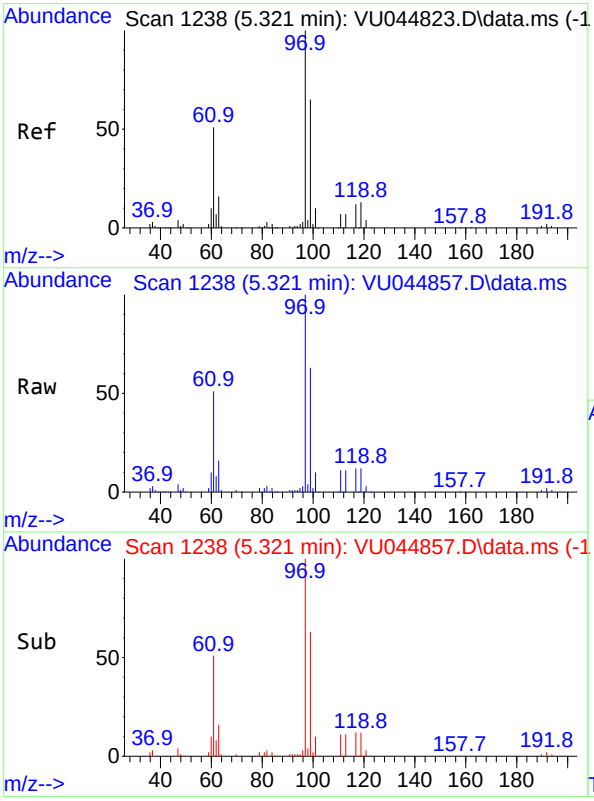


#31
Cyclohexane
Concen: 45.612 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 56 Resp: 171586

Ion	Ratio	Lower	Upper
56	100		
69	32.3	25.2	37.8
84	83.3	66.4	99.6

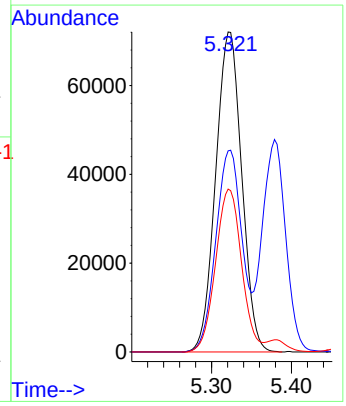




#32
1,1,1-Trichloroethane
Concen: 49.865 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 97 Resp: 163009

Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.9	76.3
61	51.1	40.7	61.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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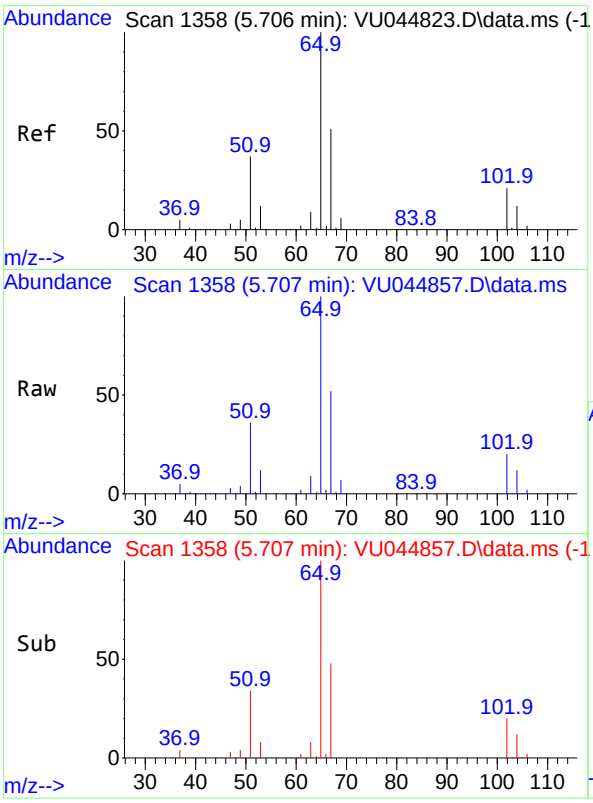
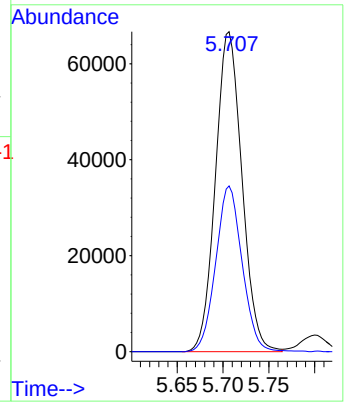
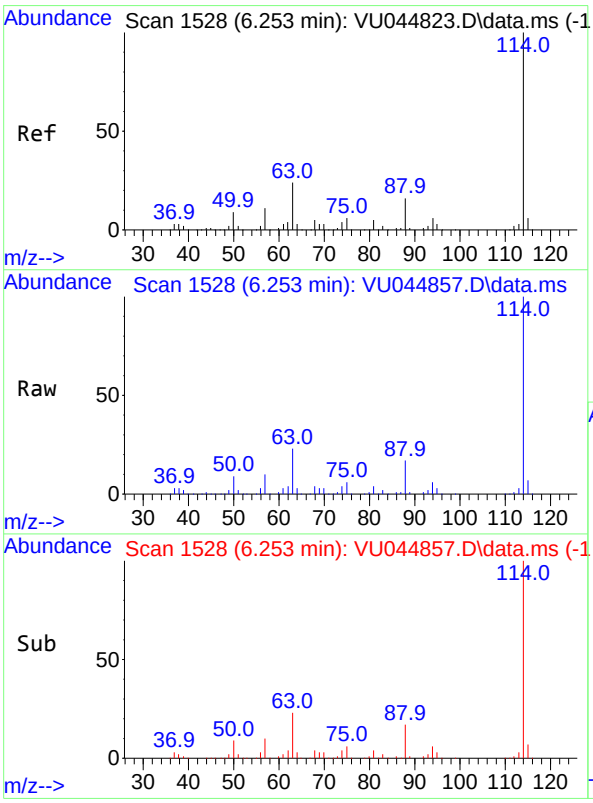


#33
1,2-Dichloroethane-d4
Concen: 51.143 ug/l
RT: 5.707 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 65 Resp: 134006

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	104.8

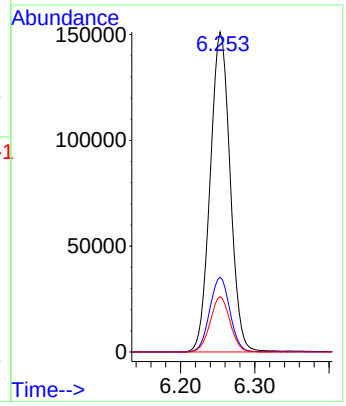




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:114 Resp: 282366

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	47.8
88	17.3	0.0	32.8



Instrument :
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ClientSampleId :
VSTDCCC050

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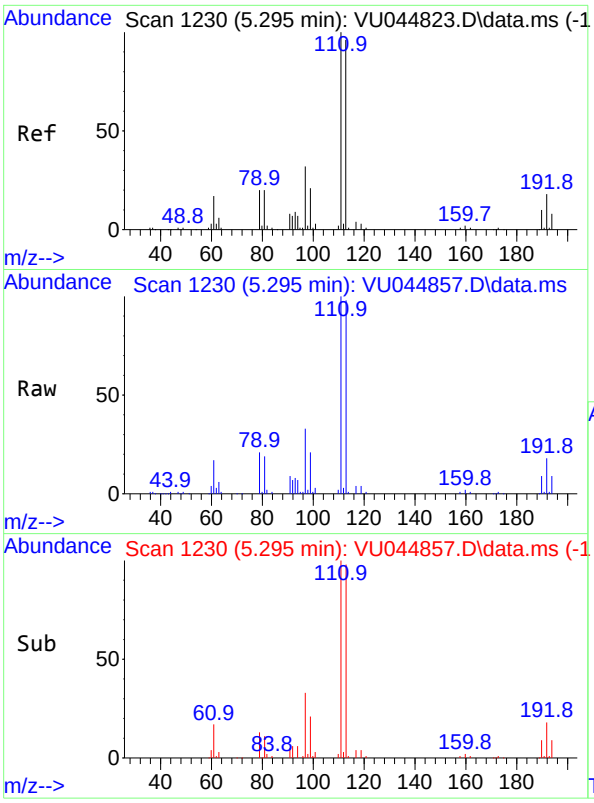
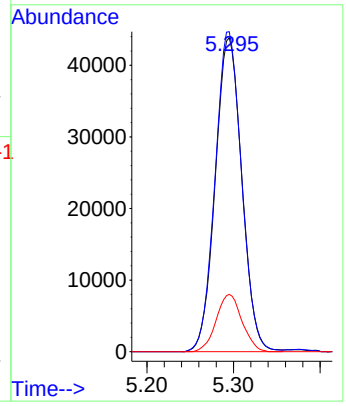
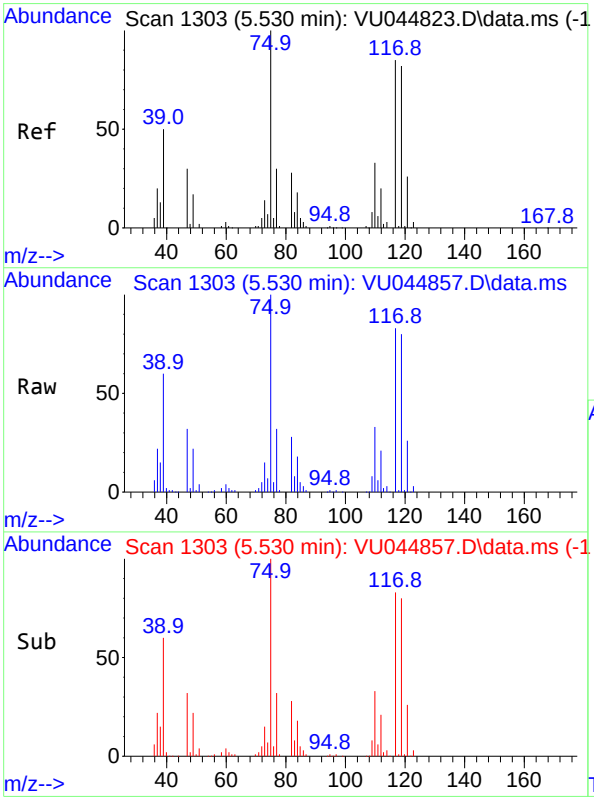


#35
Dibromofluoromethane
Concen: 48.147 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:113 Resp: 93265

Ion	Ratio	Lower	Upper
113	100		
111	101.6	84.1	126.1
192	17.7	14.8	22.2

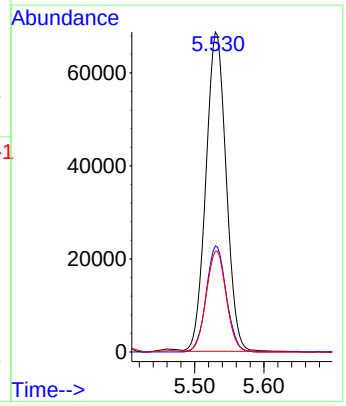




#36
1,1-Dichloropropene
Concen: 46.496 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 75 Resp: 139299

Ion	Ratio	Lower	Upper
75	100		
110	33.0	16.3	48.9
77	31.5	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
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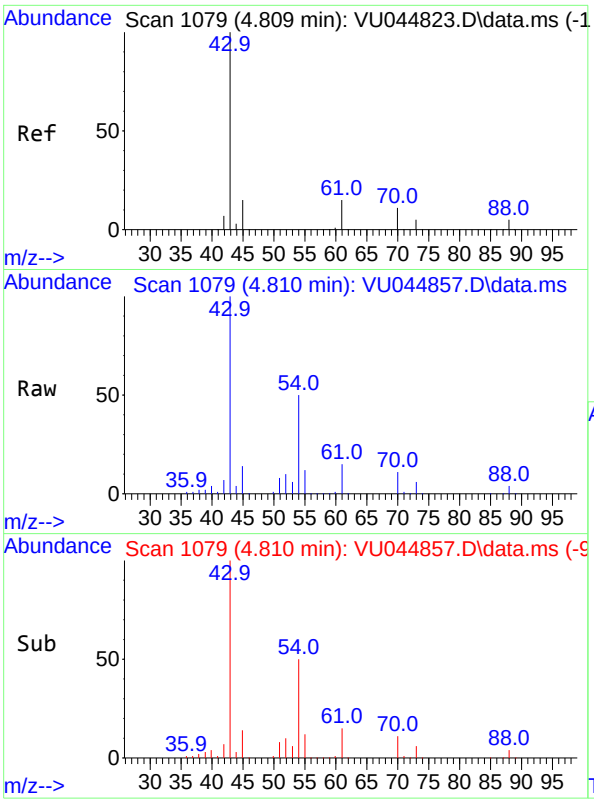
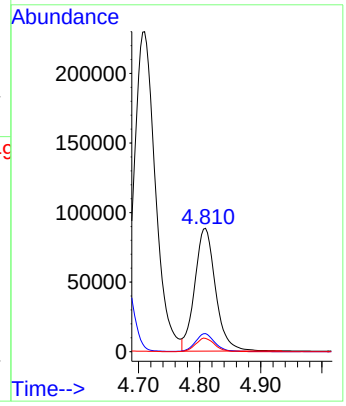
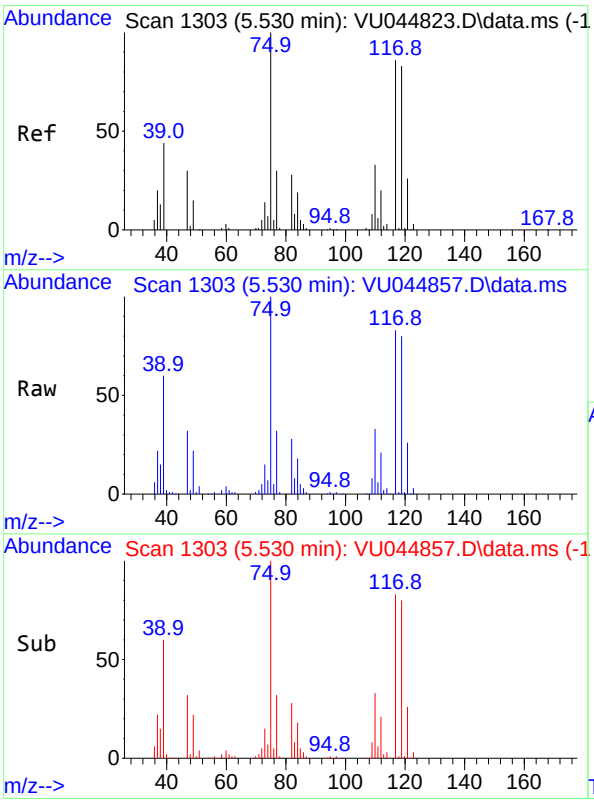


#37
Ethyl Acetate
Concen: 47.398 ug/l
RT: 4.810 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 208357

Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.9	16.3
70	10.3	8.2	12.4

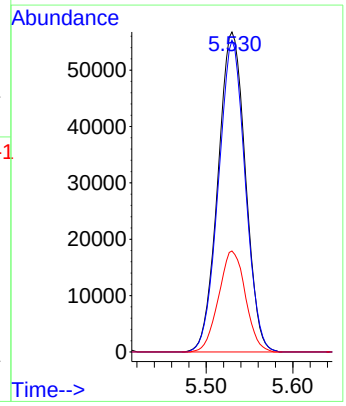




#38
Carbon Tetrachloride
Concen: 46.544 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:117 Resp: 124664

Ion	Ratio	Lower	Upper
117	100		
119	97.4	77.4	116.2
121	31.5	24.5	36.7



Instrument :
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ClientSampleId :
VSTDCCC050

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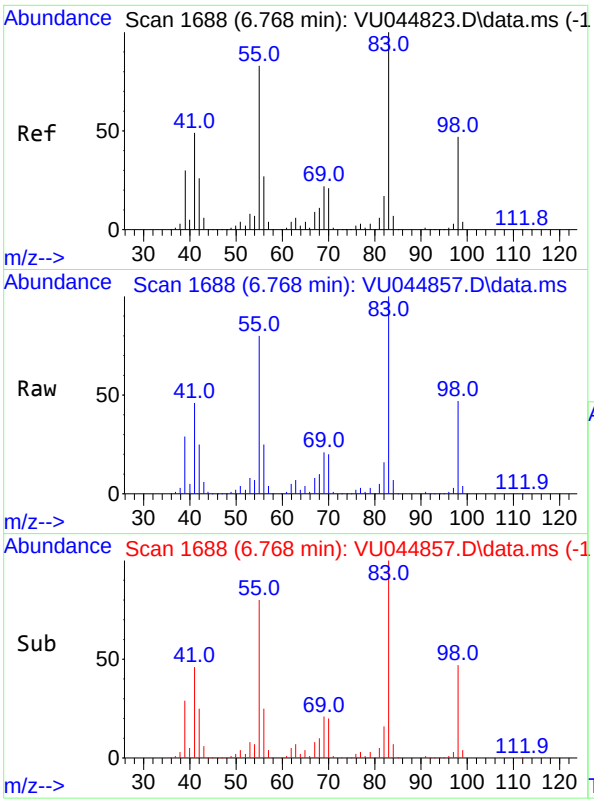
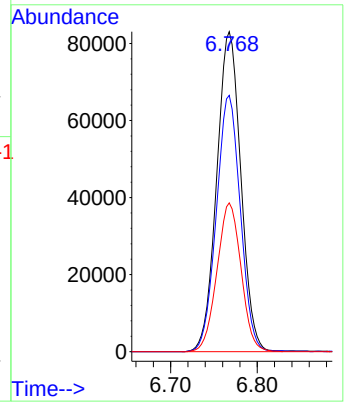
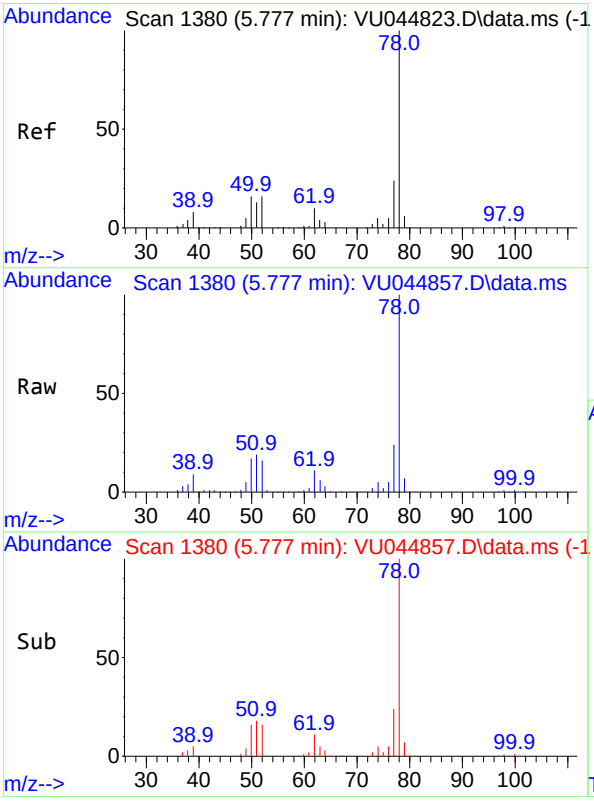


#39
Methylcyclohexane
Concen: 47.396 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 83 Resp: 160599

Ion	Ratio	Lower	Upper
83	100		
55	80.1	66.2	99.4
98	46.5	37.5	56.3

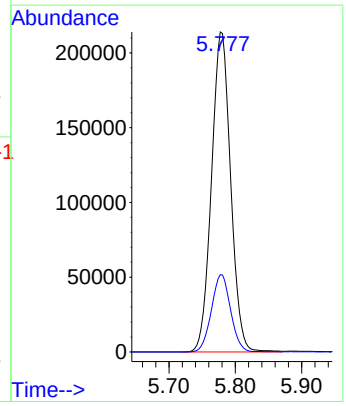




#40
Benzene
Concen: 46.963 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 78 Resp: 428970

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.1	28.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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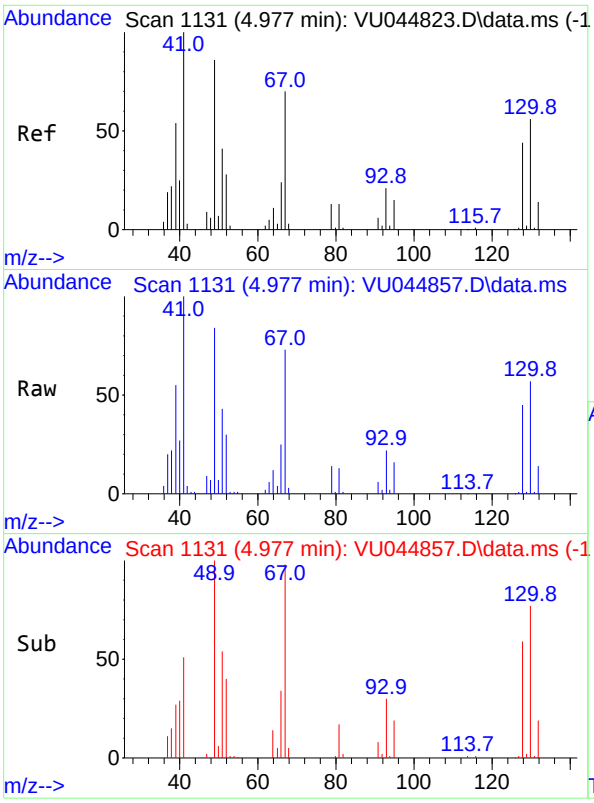
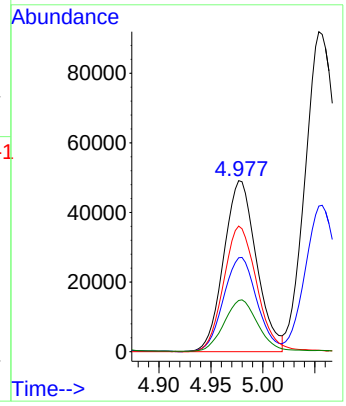
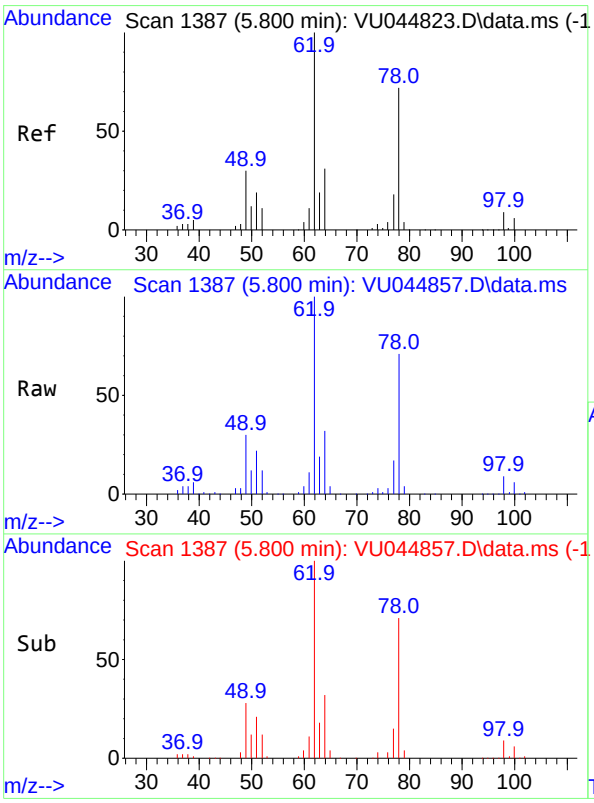


#41
Methacrylonitrile
Concen: 49.159 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 41 Resp: 107866

Ion	Ratio	Lower	Upper
41	100		
39	56.5	44.4	66.6
67	74.7	58.1	87.1
52	30.7	23.8	35.8

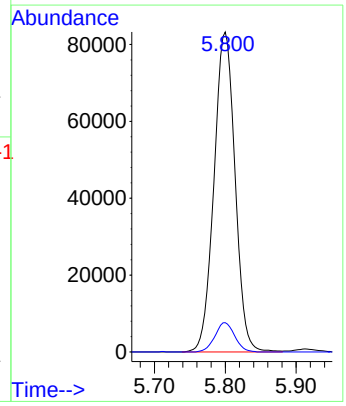




#42
1,2-Dichloroethane
Concen: 47.830 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 62 Resp: 171878

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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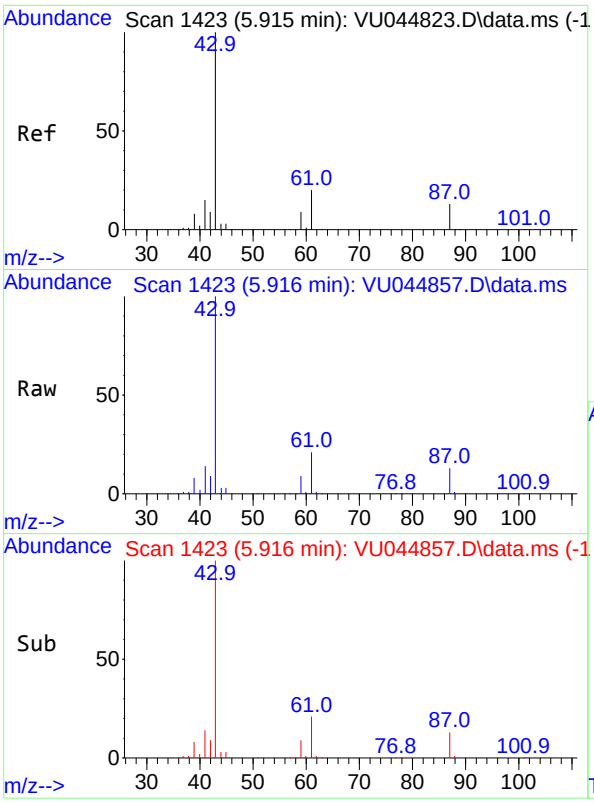
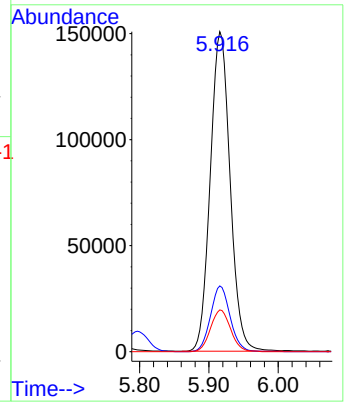
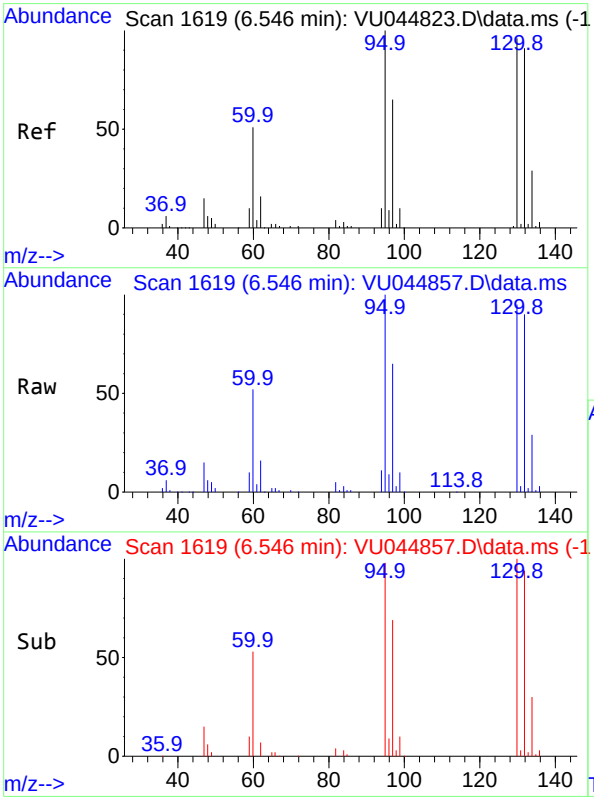


#43
Isopropyl Acetate
Concen: 48.645 ug/l
RT: 5.916 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 299174

Ion	Ratio	Lower	Upper
43	100		
61	20.4	16.1	24.1
87	13.2	10.3	15.5

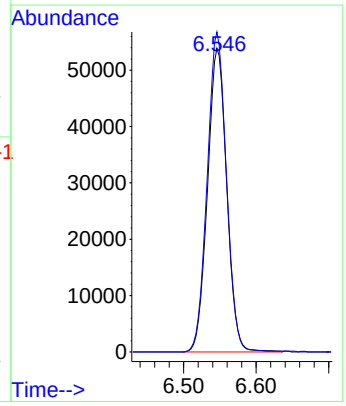




#44
Trichloroethene
Concen: 45.194 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:130 Resp: 99214

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	209.0



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ClientSampleId :
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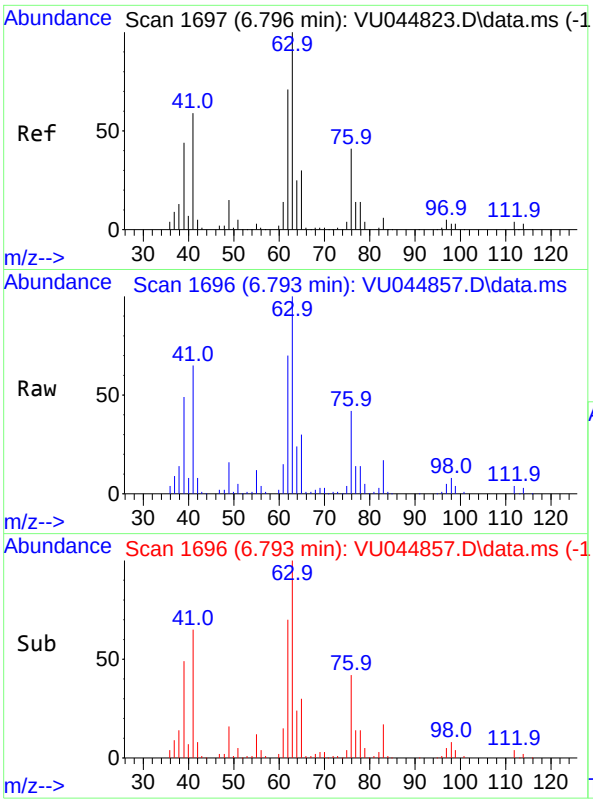
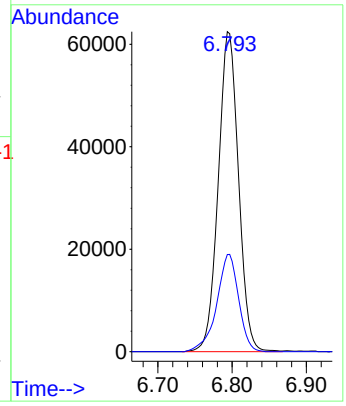
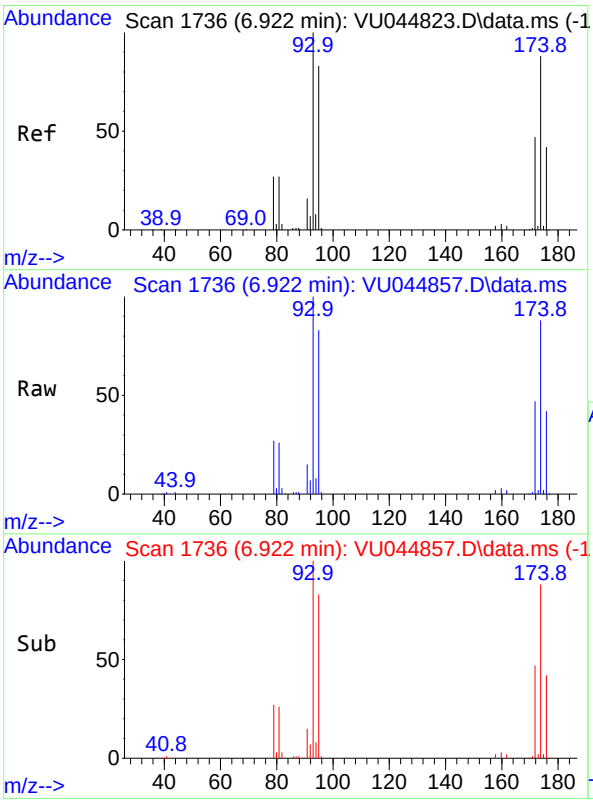


#45
1,2-Dichloropropane
Concen: 47.888 ug/l
RT: 6.793 min Scan# 1696
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 63 Resp: 118381

Ion	Ratio	Lower	Upper
63	100		
65	30.4	23.9	35.9

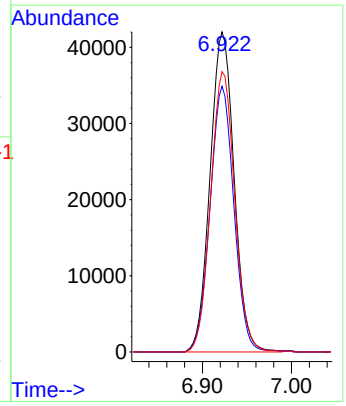




#46
Dibromomethane
Concen: 48.222 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 93 Resp: 78990

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.6	98.4
174	87.7	70.7	106.1



Instrument :
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ClientSampleId :
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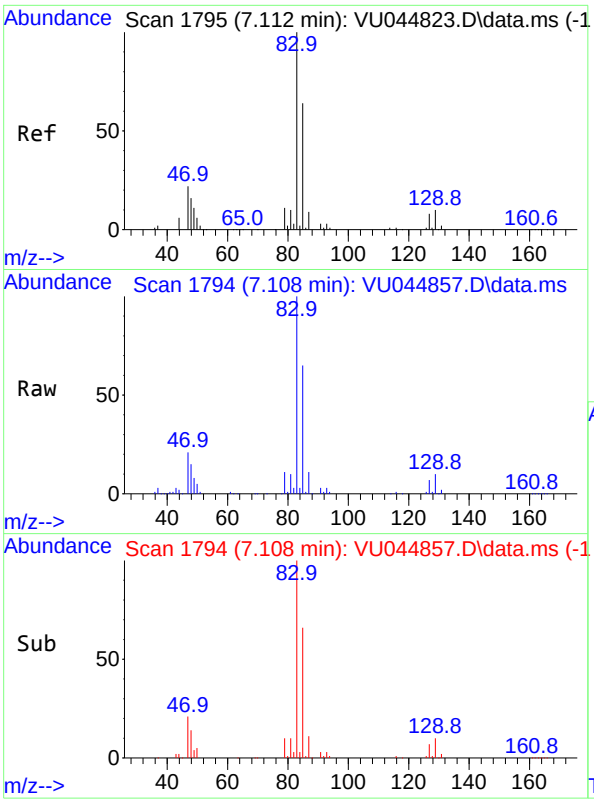
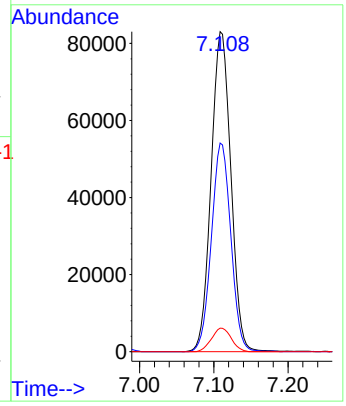
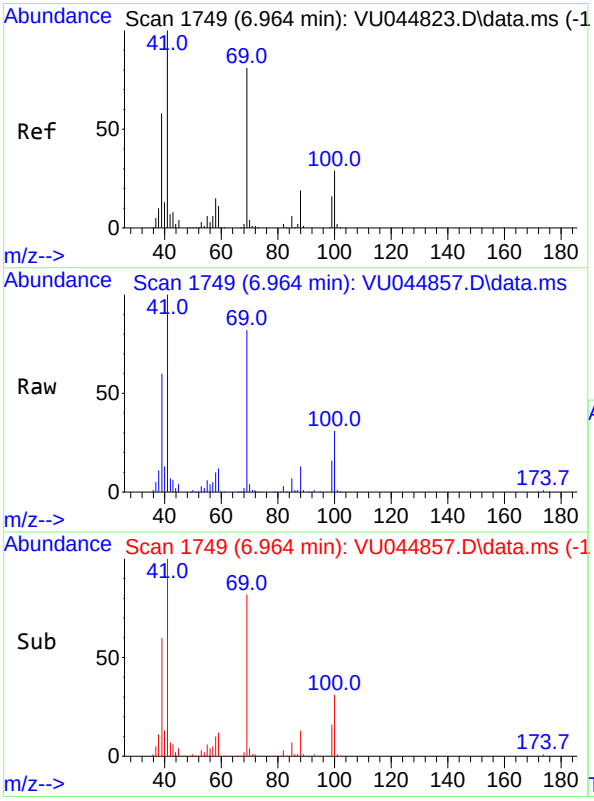


#47
Bromodichloromethane
Concen: 47.425 ug/l
RT: 7.108 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 83 Resp: 153237

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.6	77.4
127	7.3	6.2	9.4

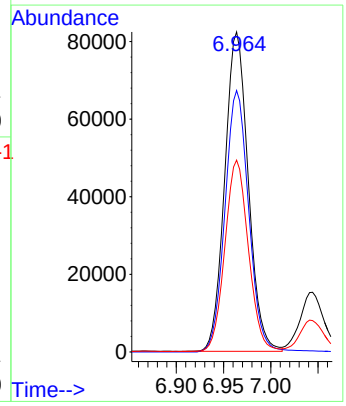




#48
Methyl methacrylate
Concen: 49.061 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 41 Resp: 142416

Ion	Ratio	Lower	Upper
41	100		
69	83.1	65.6	98.4
39	60.1	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
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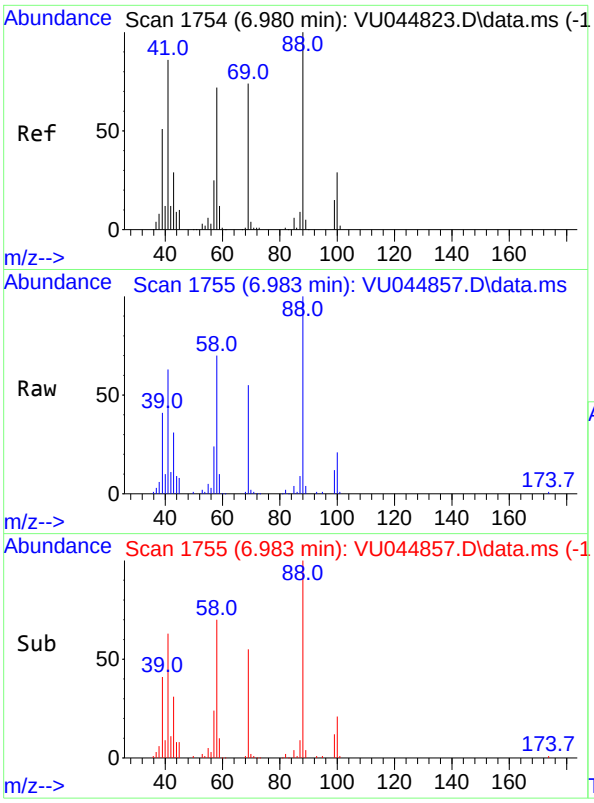
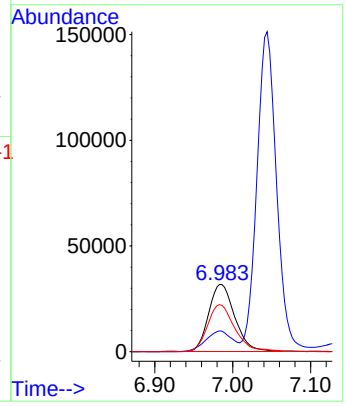
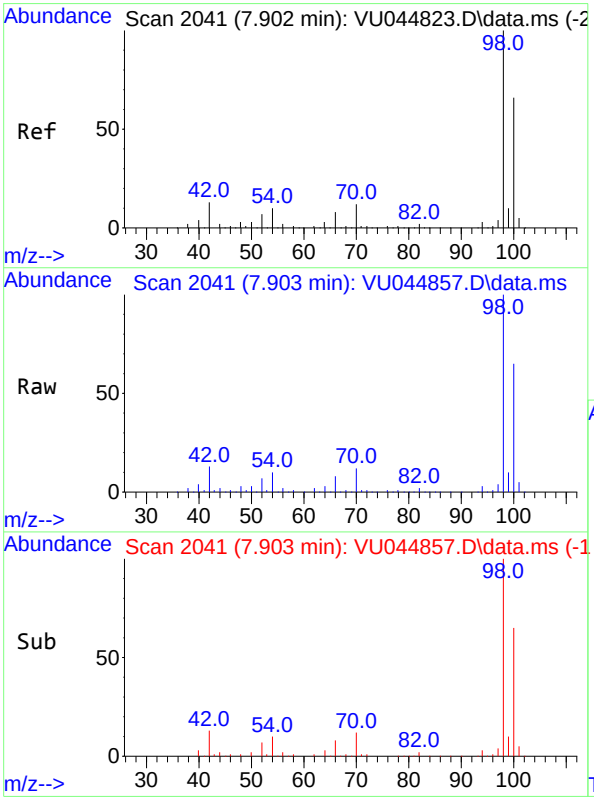


#49
1,4-Dioxane
Concen: 990.593 ug/l
RT: 6.983 min Scan# 1755
Delta R.T. 0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 88 Resp: 73491

Ion	Ratio	Lower	Upper
88	100		
43	31.7	25.8	38.6
58	74.3	61.3	91.9

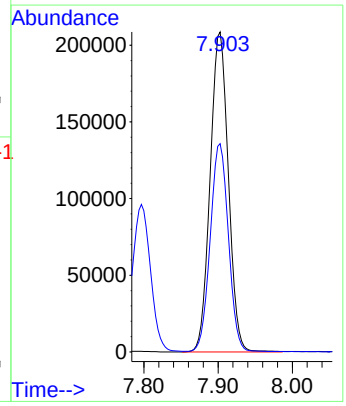




#50
Toluene-d8
Concen: 48.476 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 98 Resp: 354649

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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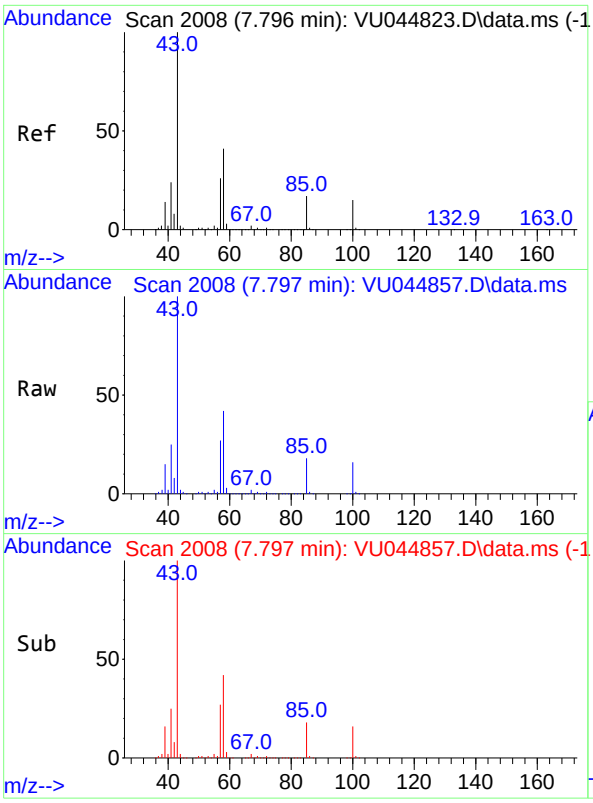
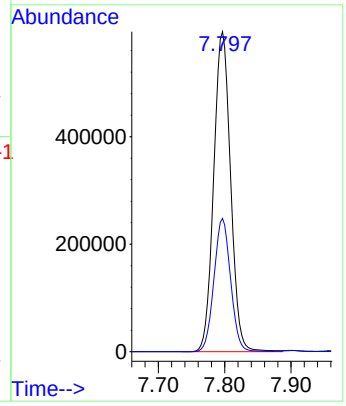
9/27/2021 11:03:13 AM

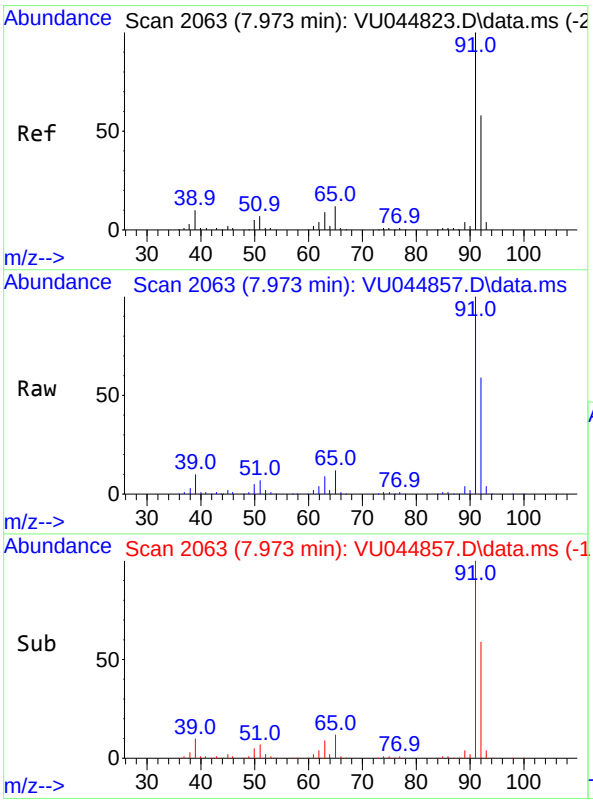


#51
4-Methyl-2-Pentanone
Concen: 240.476 ug/l
RT: 7.797 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 1054054

Ion	Ratio	Lower	Upper
43	100		
58	41.0	32.4	48.6

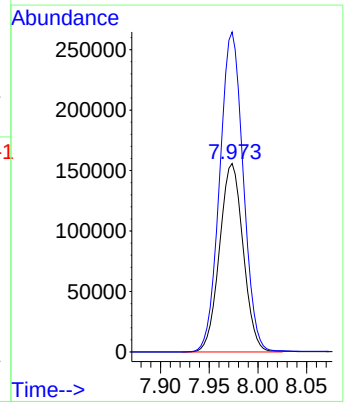




#52
Toluene
Concen: 48.149 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 92 Resp: 262940

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.9	205.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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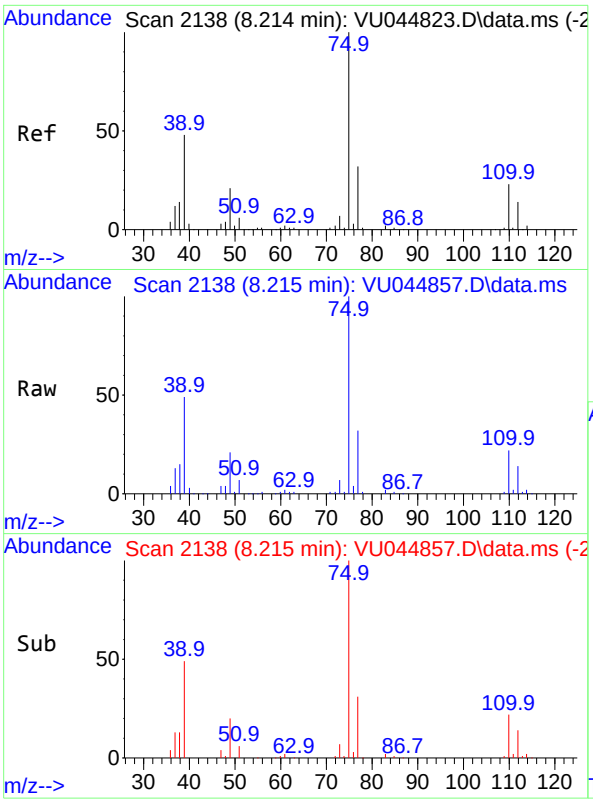
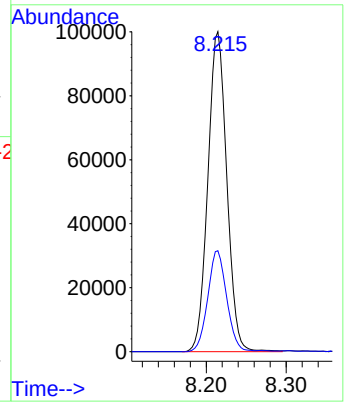
9/27/2021 11:03:13 AM

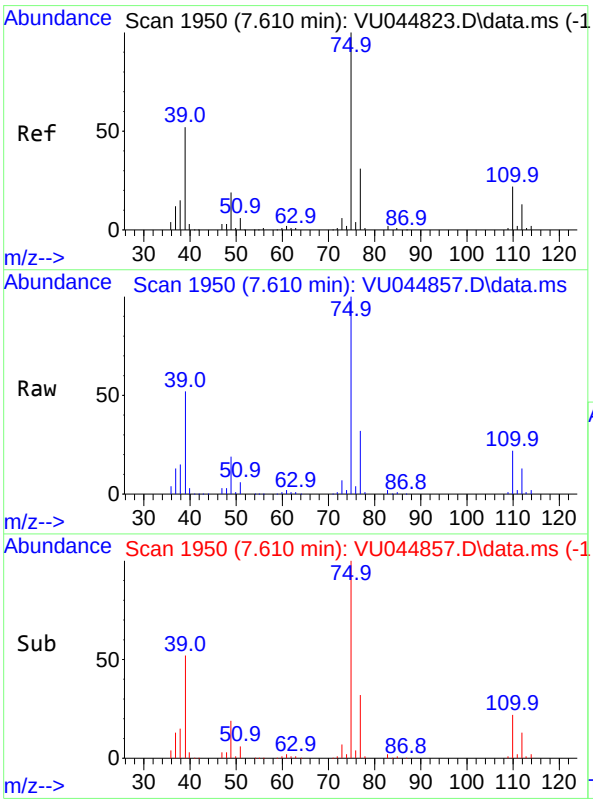


#53
t-1,3-Dichloropropene
Concen: 48.889 ug/l
RT: 8.215 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 75 Resp: 164574

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4

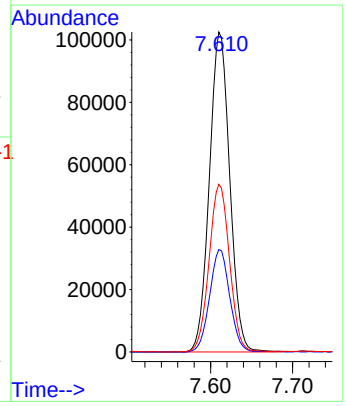




#54
cis-1,3-Dichloropropene
Concen: 48.485 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 75 Resp: 176754

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.0	37.6
39	52.3	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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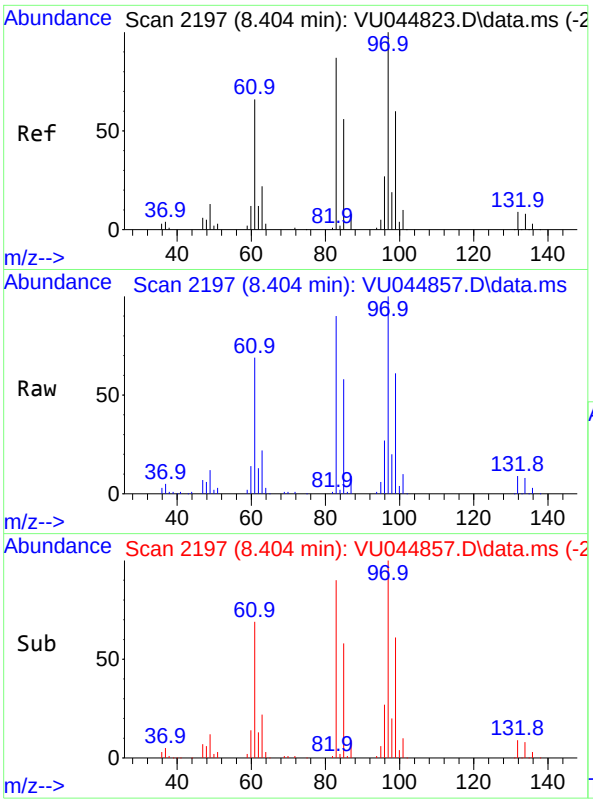
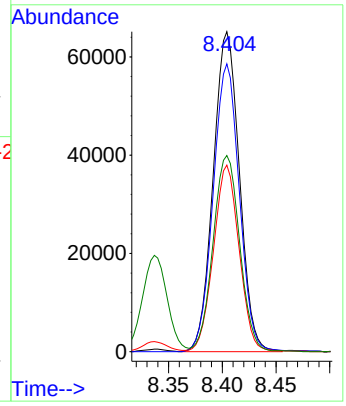
9/27/2021 11:03:13 AM

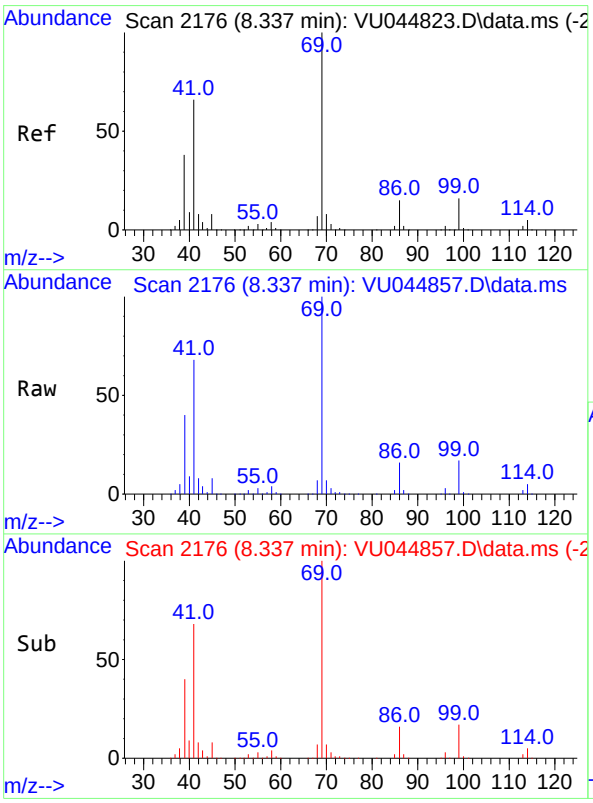


#55
1,1,2-Trichloroethane
Concen: 47.289 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 97 Resp: 110411

Ion	Ratio	Lower	Upper
97	100		
83	89.9	69.7	104.5
85	58.0	44.8	67.2
99	61.0	49.3	73.9

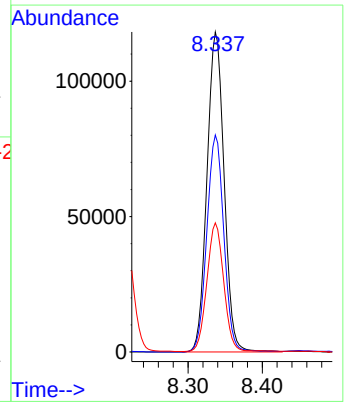




#56
Ethyl methacrylate
Concen: 45.527 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. -0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 69 Resp: 188614

Ion	Ratio	Lower	Upper
69	100		
41	67.6	53.5	80.3
39	39.4	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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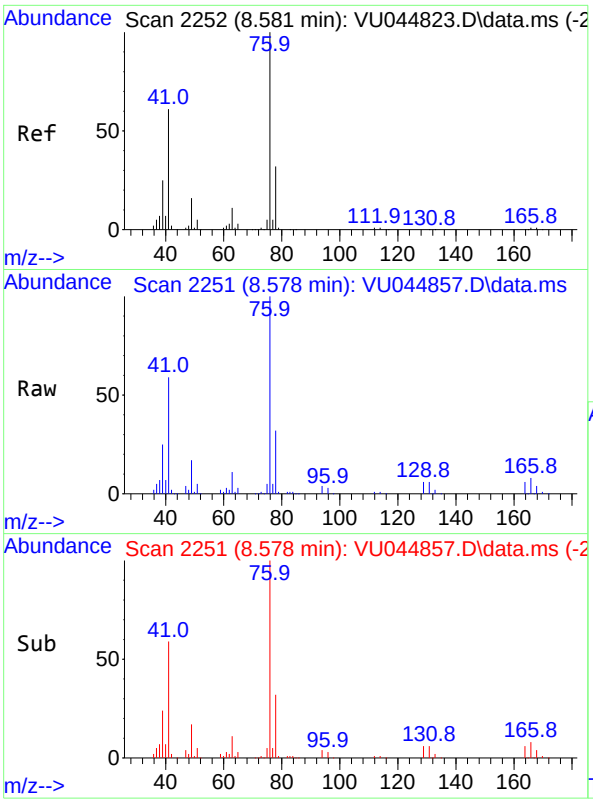
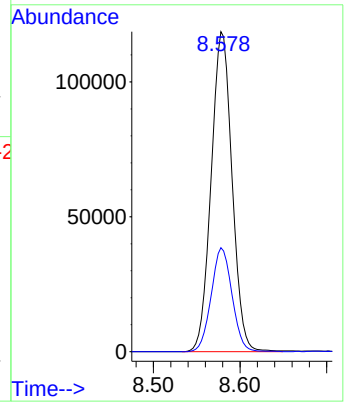
9/27/2021 11:03:13 AM

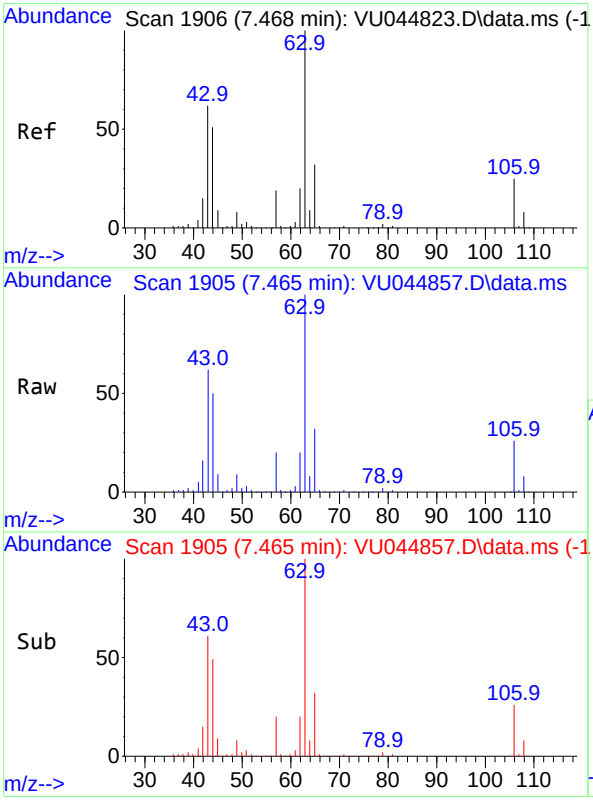


#57
1,3-Dichloropropane
Concen: 47.816 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 76 Resp: 198794

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.7	38.5

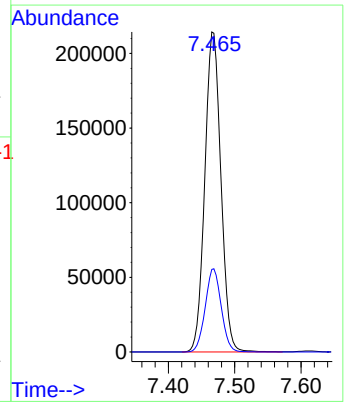




#58
2-Chloroethyl Vinyl ether
Concen: 350.842 ug/l
RT: 7.465 min Scan# 1905
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 63 Resp: 361390

Ion	Ratio	Lower	Upper
63	100		
106	25.8	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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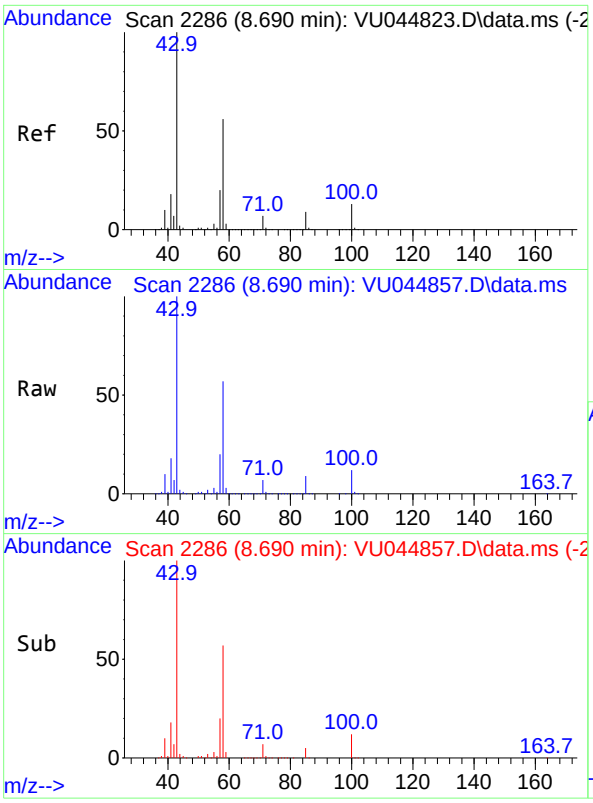
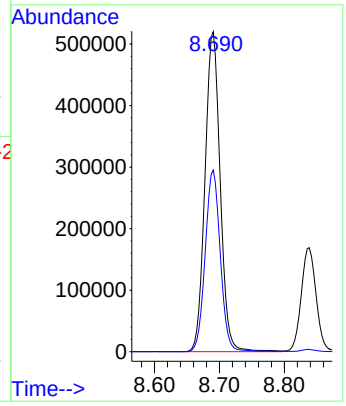
9/27/2021 11:03:13 AM

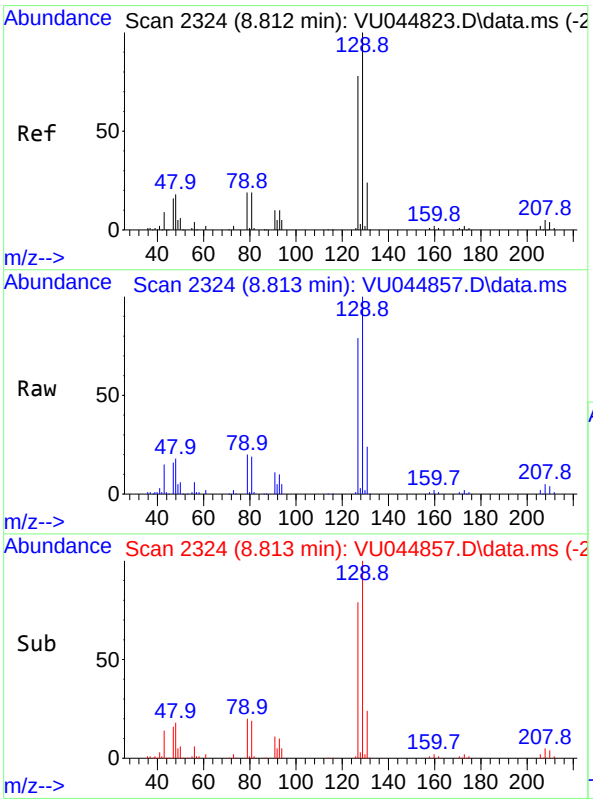


#59
2-Hexanone
Concen: 241.345 ug/l
RT: 8.690 min Scan# 2286
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 849129

Ion	Ratio	Lower	Upper
43	100		
58	56.2	28.0	84.0

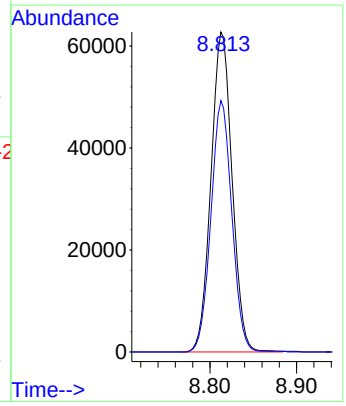




#60
Dibromochloromethane
Concen: 47.512 ug/l
RT: 8.813 min Scan# 2324
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

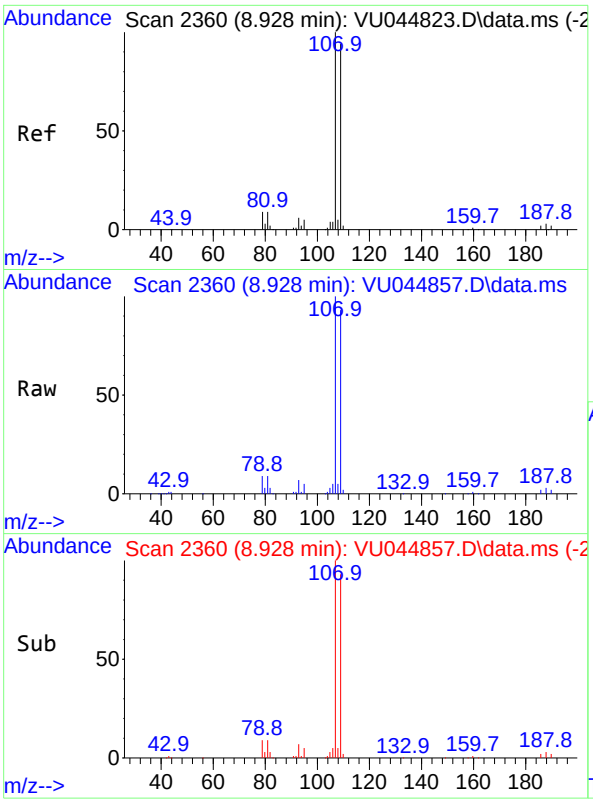
Tgt Ion:129 Resp: 106229

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.0	117.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

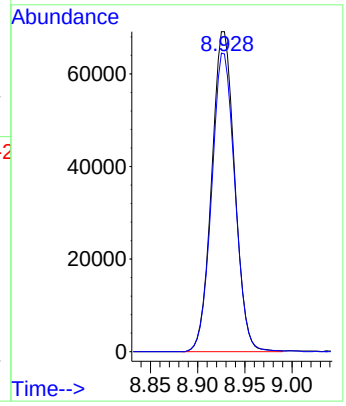
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:13 AM

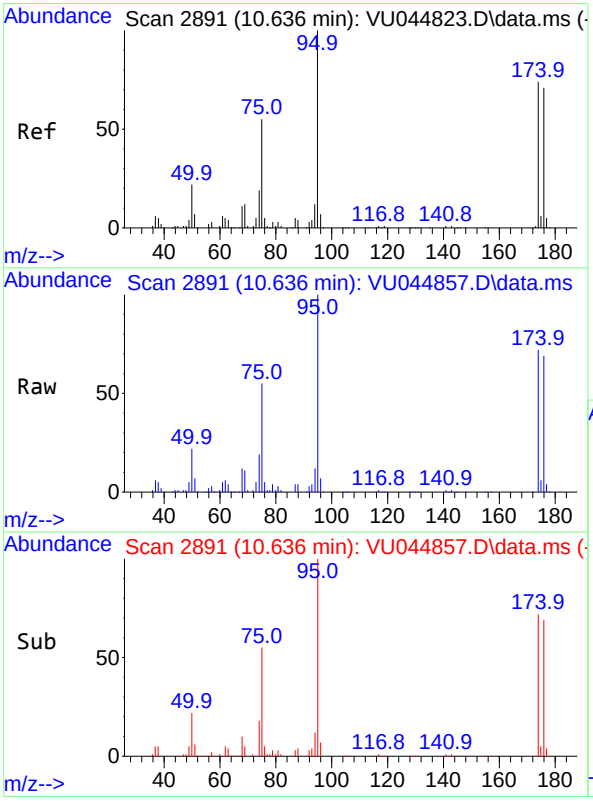


#61
1,2-Dibromoethane
Concen: 47.634 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:107 Resp: 116778

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.8	112.2

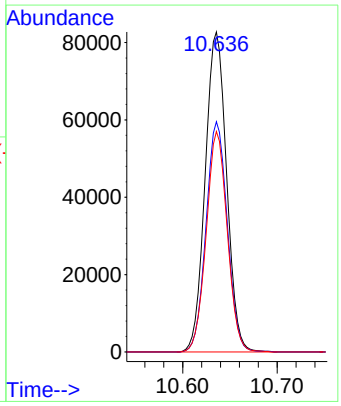




#62
4-Bromofluorobenzene
Concen: 47.907 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 95 Resp: 130177

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	146.6
176	67.7	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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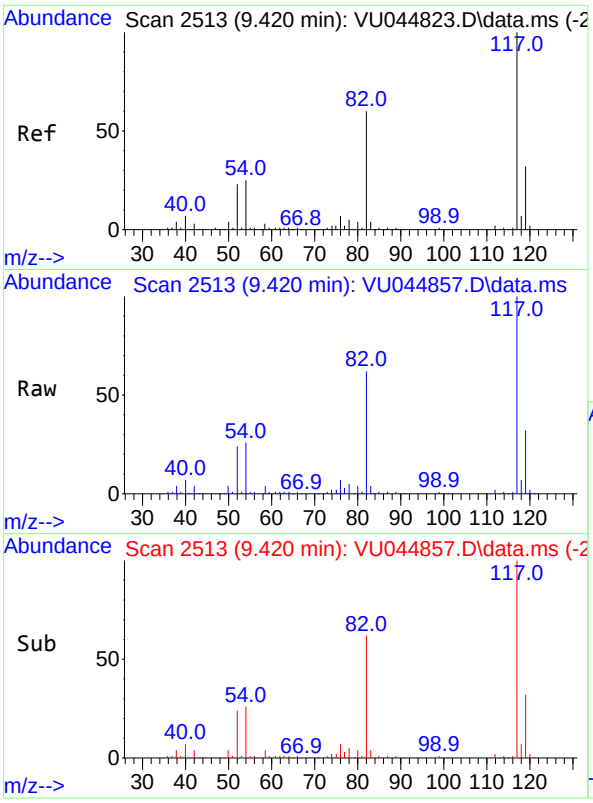
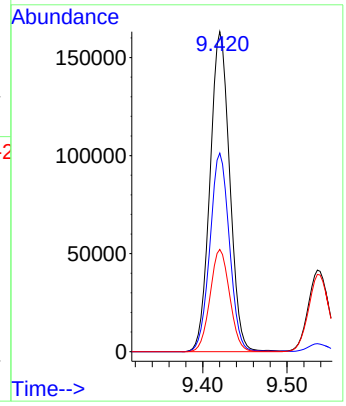
9/27/2021 11:03:13 AM

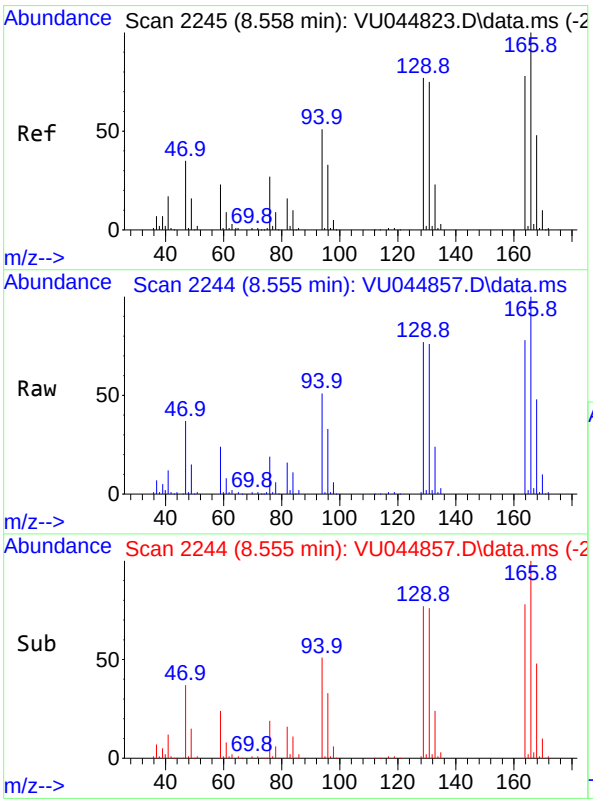


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:117 Resp: 264988

Ion	Ratio	Lower	Upper
117	100		
82	62.0	47.8	71.8
119	32.0	25.8	38.6

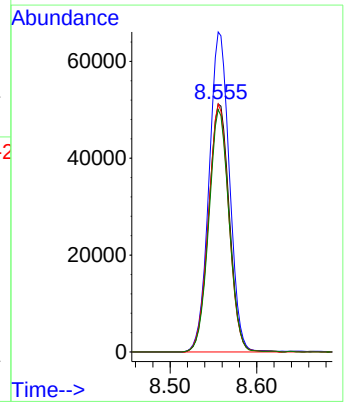




#64
Tetrachloroethene
Concen: 47.414 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:164 Resp: 85162

Ion	Ratio	Lower	Upper
164	100		
166	129.0	102.8	154.2
129	99.9	79.4	119.2
131	97.8	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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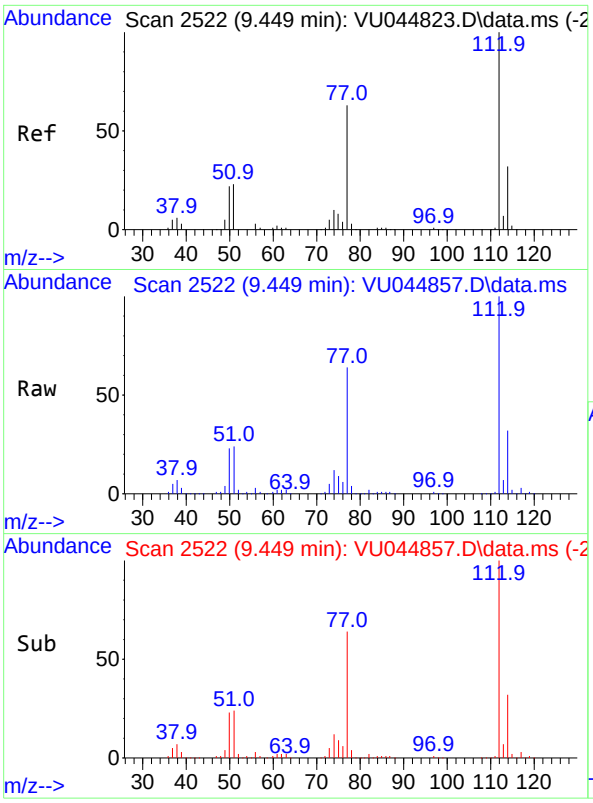
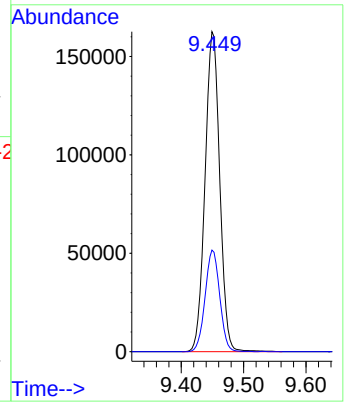
9/27/2021 11:03:13 AM

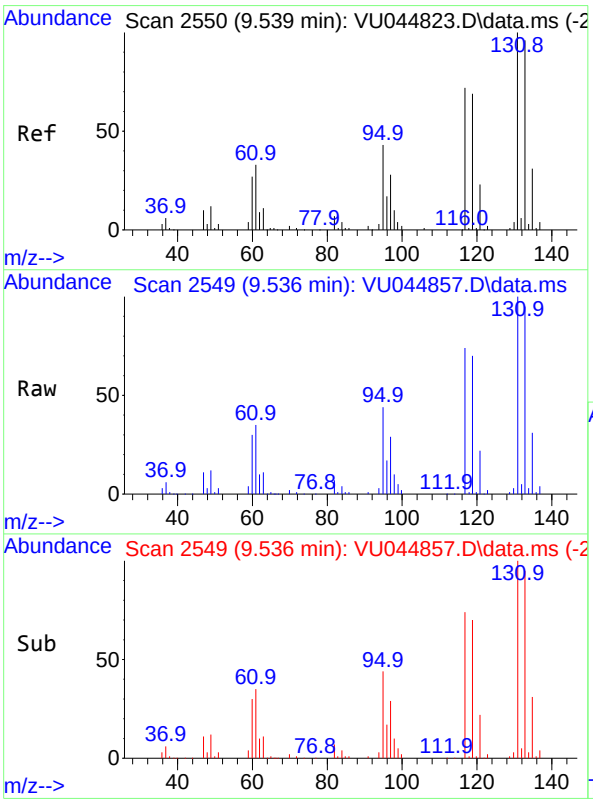


#65
Chlorobenzene
Concen: 48.388 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:112 Resp: 266185

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.9	38.9

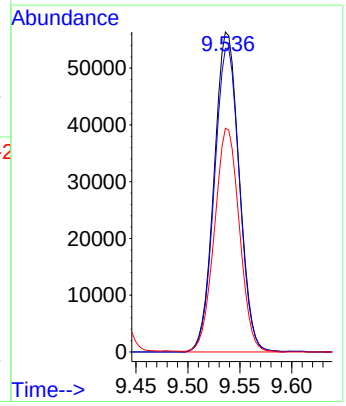




#66
1,1,1,2-Tetrachloroethane
Concen: 48.221 ug/l
RT: 9.536 min Scan# 2549
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

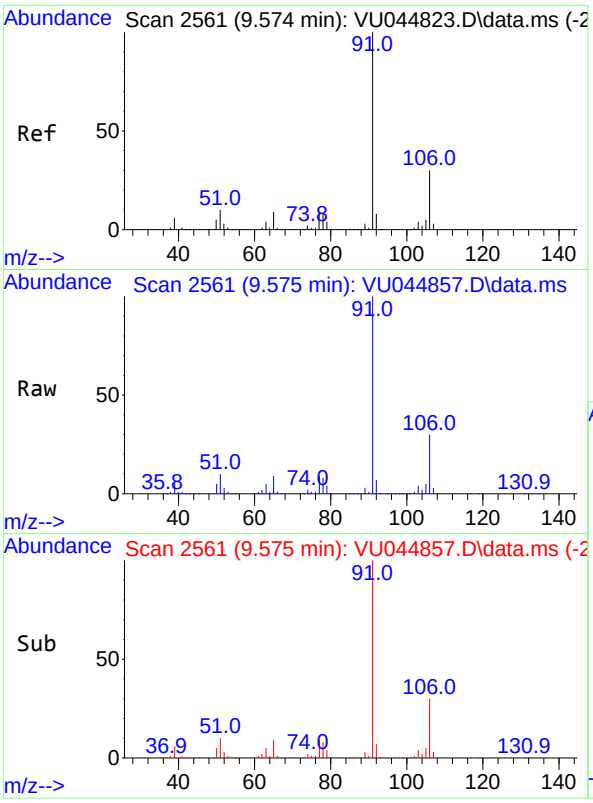
Tgt Ion:131 Resp: 94614

Ion	Ratio	Lower	Upper
131	100		
133	95.1	48.1	144.3
119	69.8	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

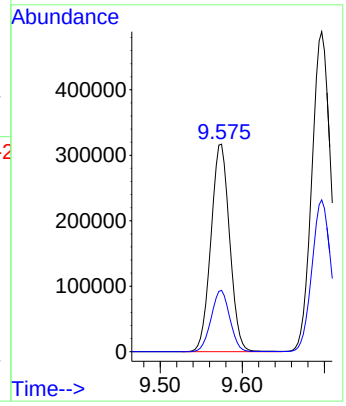
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:13 AM

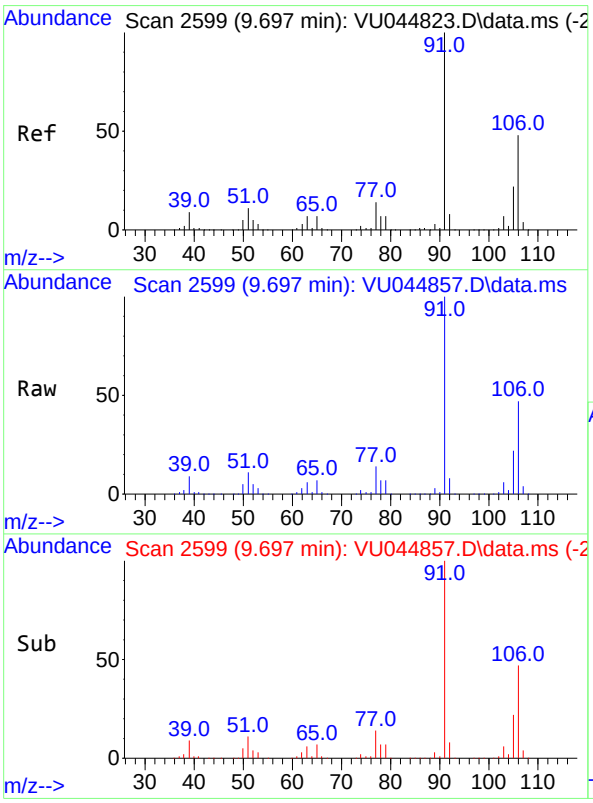


#67
Ethyl Benzene
Concen: 51.042 ug/l
RT: 9.575 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 91 Resp: 501168

Ion	Ratio	Lower	Upper
91	100		
106	29.5	24.3	36.5

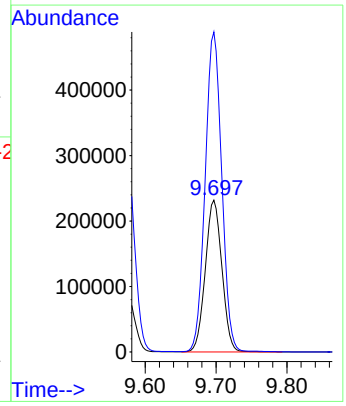




#68
m/p-Xylenes
Concen: 100.588 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:106 Resp: 377743

Ion	Ratio	Lower	Upper
106	100		
91	209.4	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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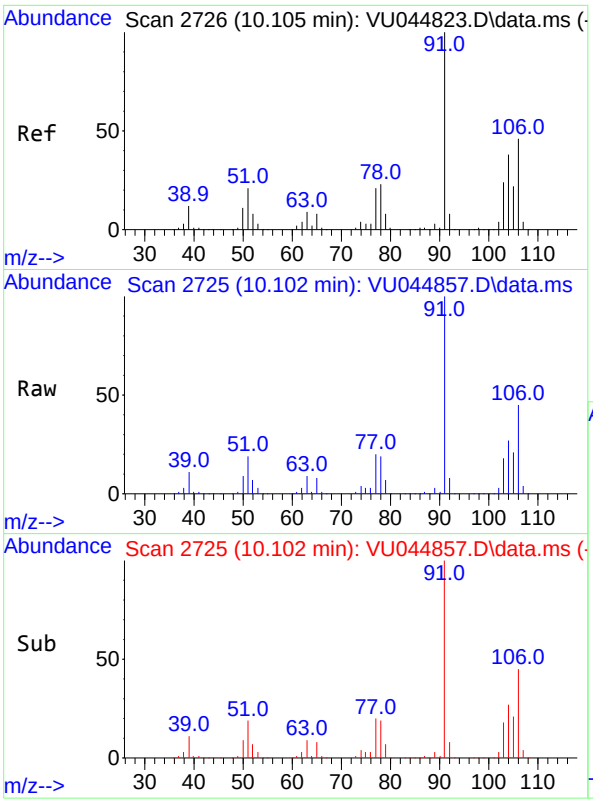
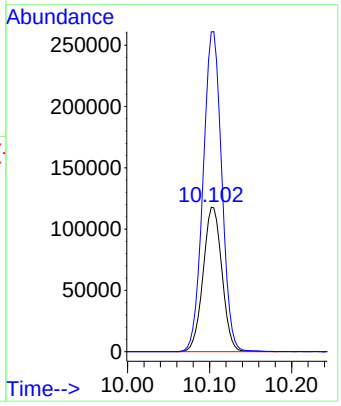
MMDadoda
9/27/2021 11:03:13 AM

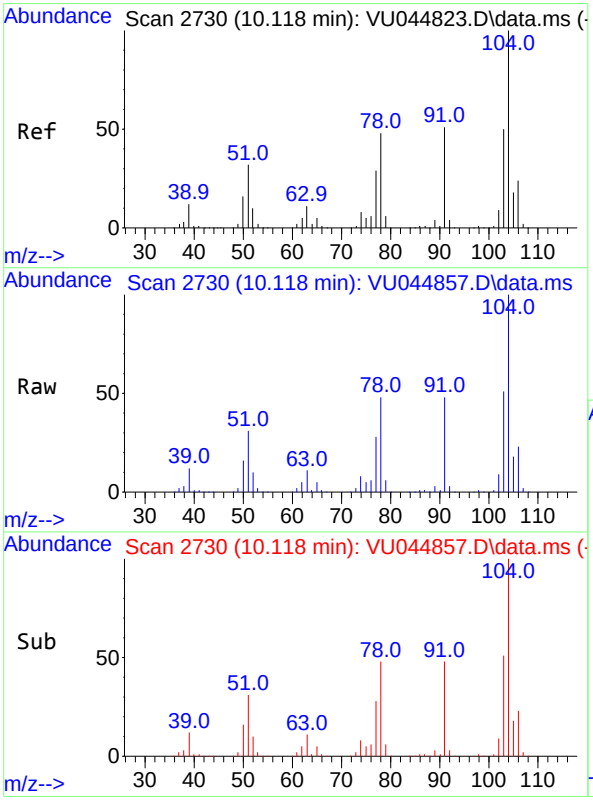


#69
o-Xylene
Concen: 51.800 ug/l
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:106 Resp: 188100

Ion	Ratio	Lower	Upper
106	100		
91	219.6	108.9	326.7

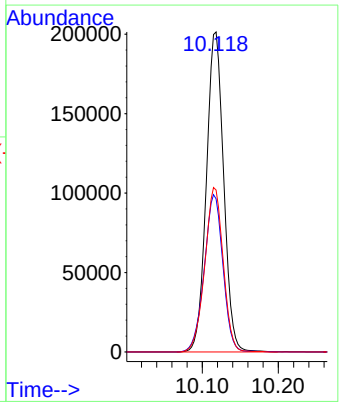




#70
Styrene
Concen: 46.900 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:104 Resp: 317880

Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.4	62.0
103	54.8	43.5	65.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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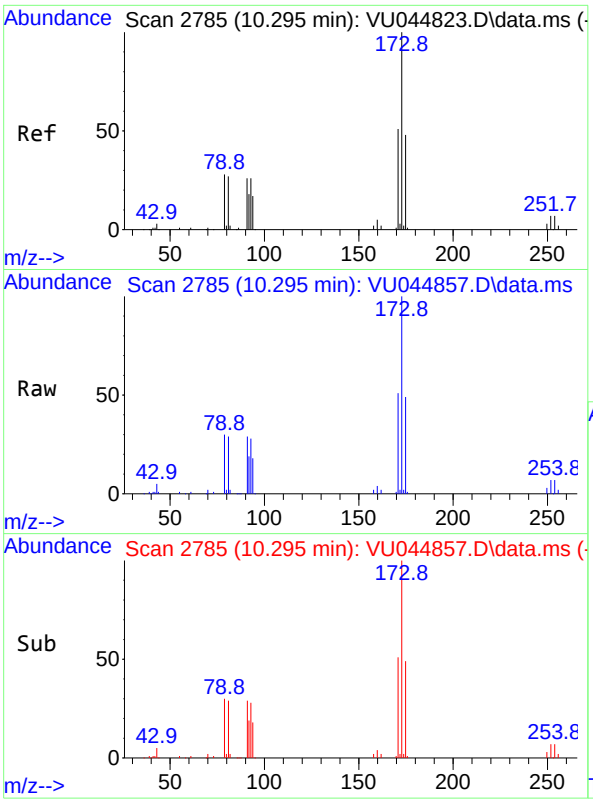
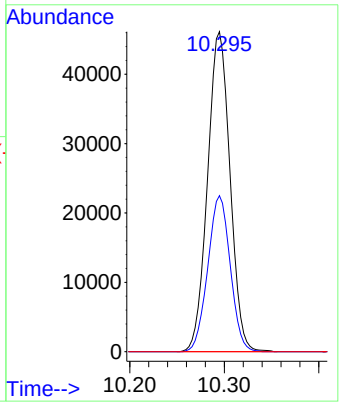
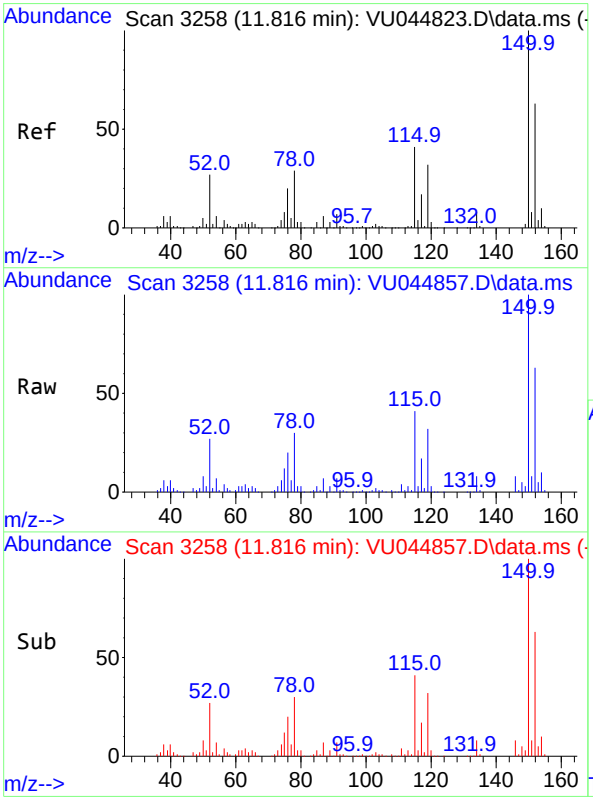


#71
Bromoform
Concen: 46.962 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:173 Resp: 76243

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	73.0
254	0.0	0.0	0.0

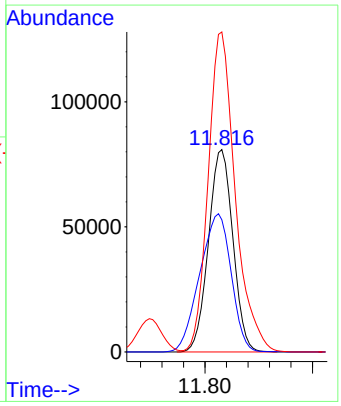




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:152 Resp: 127814

Ion	Ratio	Lower	Upper
152	100		
115	87.7	43.5	130.7
150	175.0	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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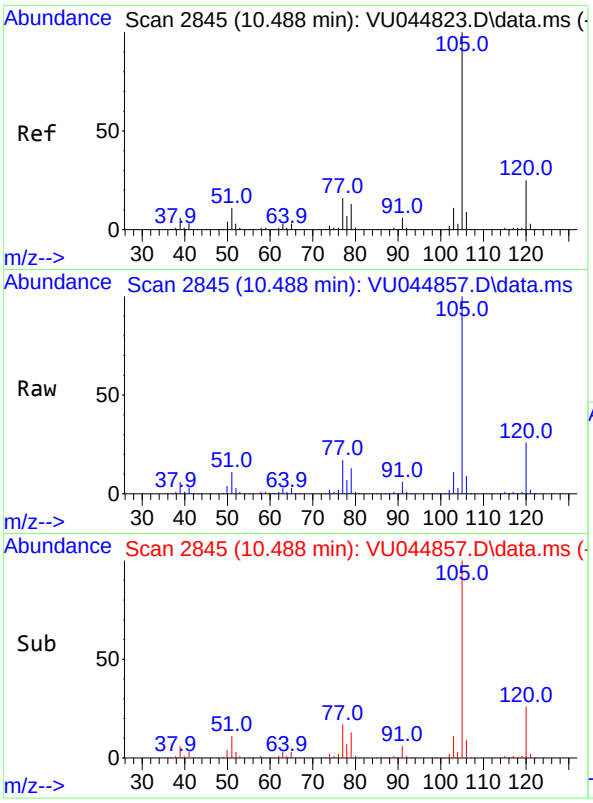
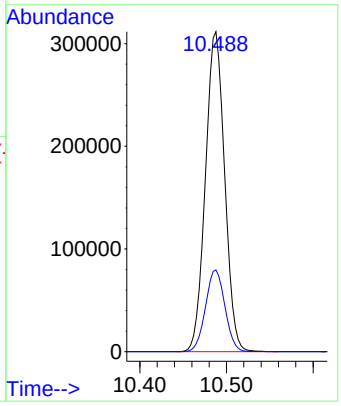
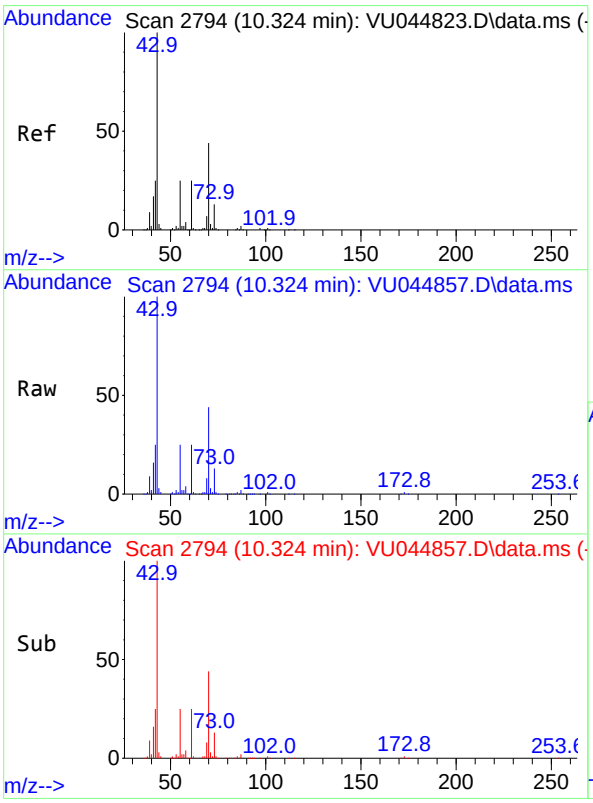


#73
Isopropylbenzene
Concen: 52.959 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:105 Resp: 480429

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.3

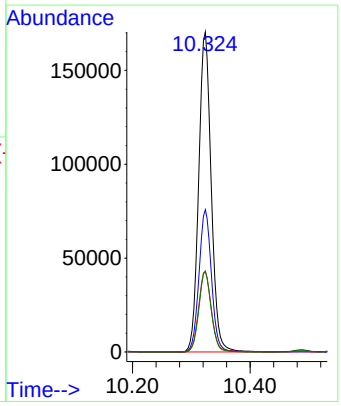




#74
N-amyl acetate
Concen: 54.364 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 43 Resp: 251362

Ion	Ratio	Lower	Upper
43	100		
70	44.4	35.1	52.7
55	25.9	20.5	30.7
61	24.7	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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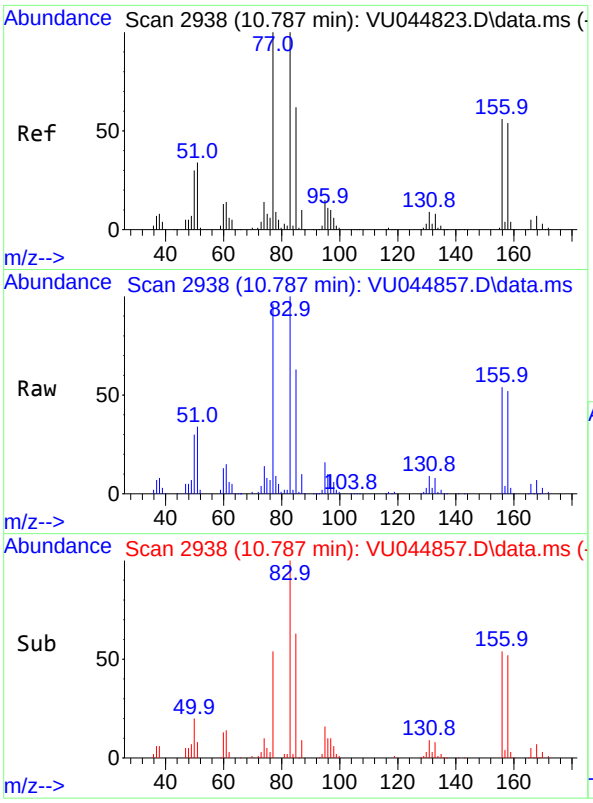
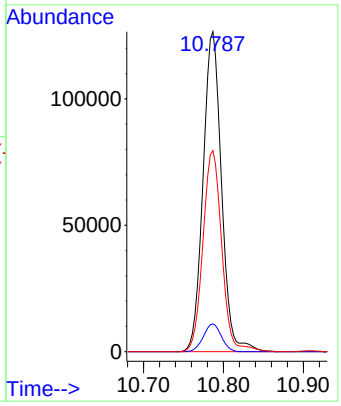
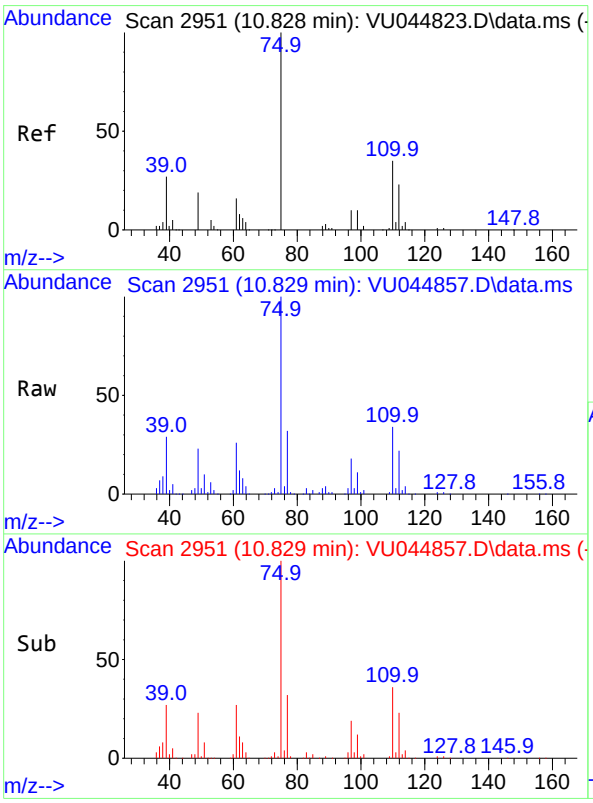


#75
1,1,2,2-Tetrachloroethane
Concen: 49.199 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 83 Resp: 203335

Ion	Ratio	Lower	Upper
83	100		
131	8.5	4.3	13.1
85	64.0	31.9	95.5

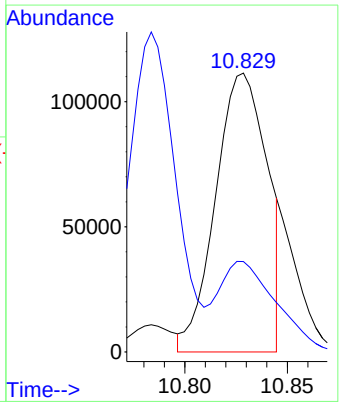




#76
1,2,3-Trichloropropane
Concen: 50.382 ug/l m
RT: 10.829 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 75 Resp: 195000

Ion	Ratio	Lower	Upper
75	100		
77	36.7	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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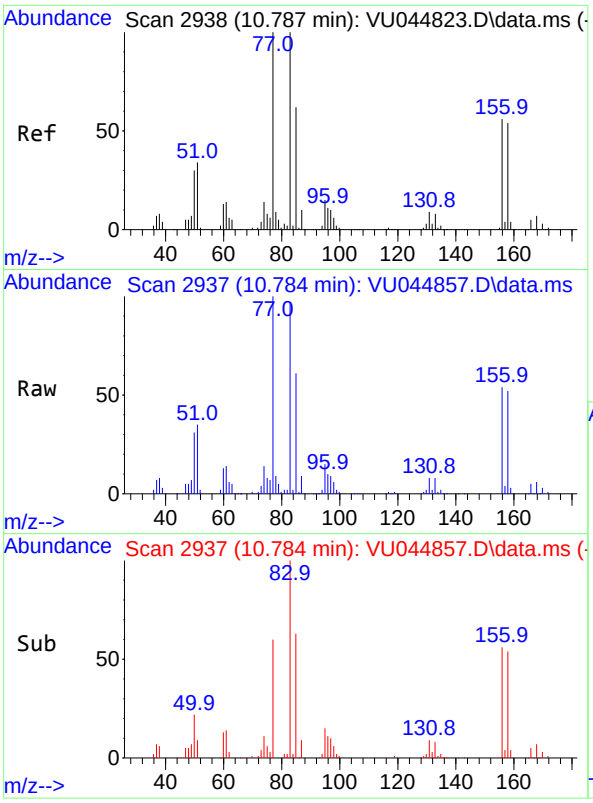
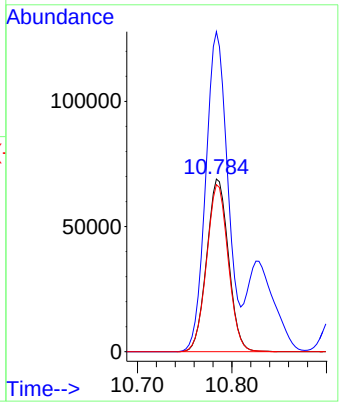
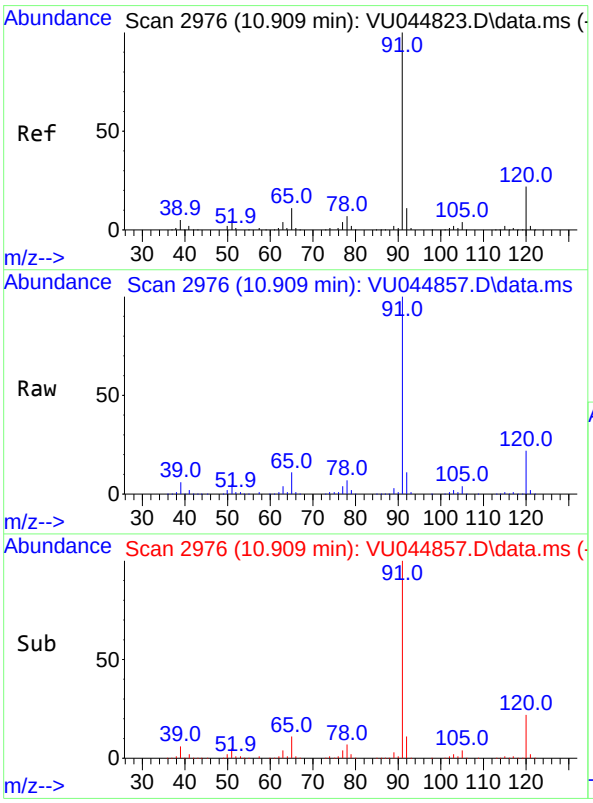


#77
Bromobenzene
Concen: 50.965 ug/l
RT: 10.784 min Scan# 2937
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:156 Resp: 110456

Ion	Ratio	Lower	Upper
156	100		
77	186.3	91.1	273.4
158	96.2	48.2	144.6

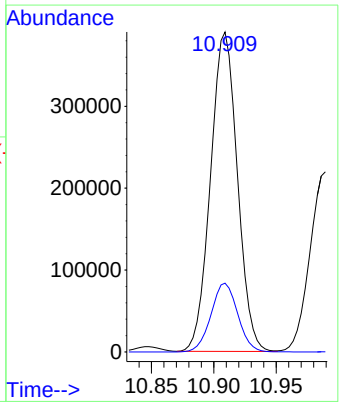




#78
n-propylbenzene
Concen: 53.238 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 91 Resp: 585204

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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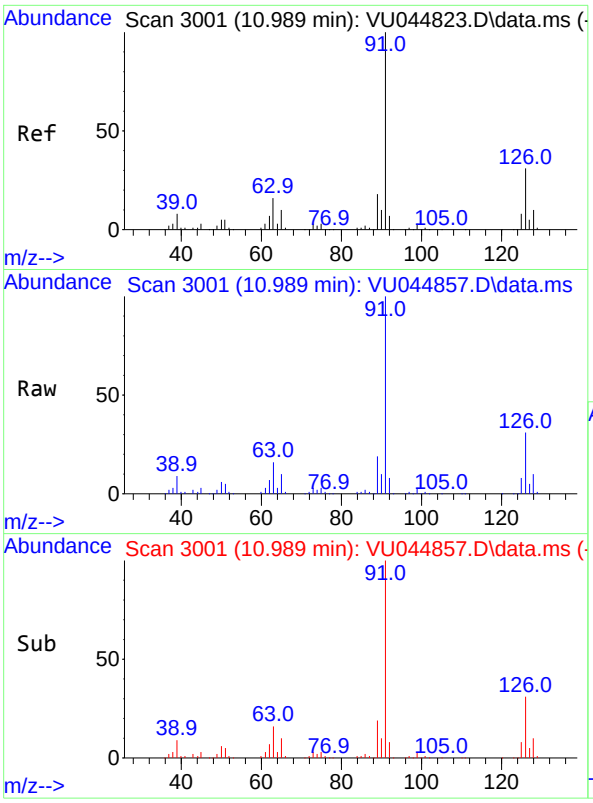
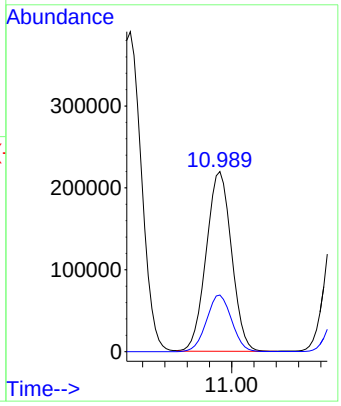
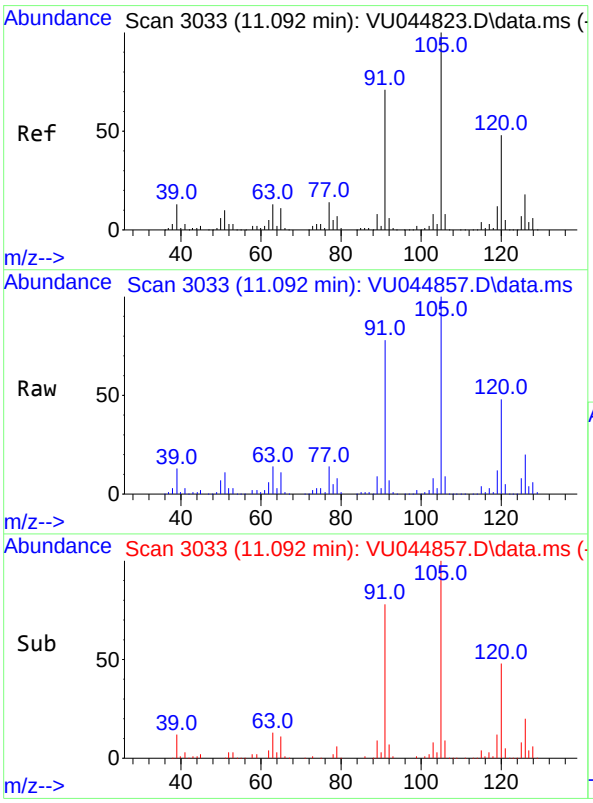


#79
2-Chlorotoluene
Concen: 51.734 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 91 Resp: 346580

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.7	47.0

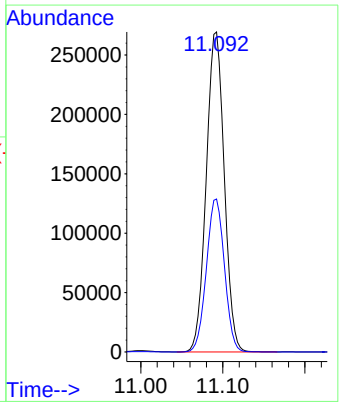




#80
1,3,5-Trimethylbenzene
Concen: 53.592 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:105 Resp: 411807

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.1	72.2



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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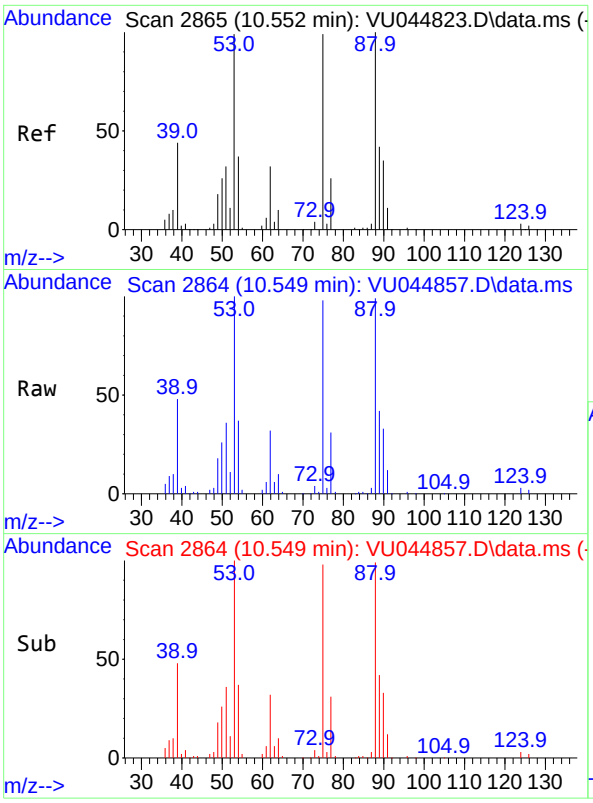
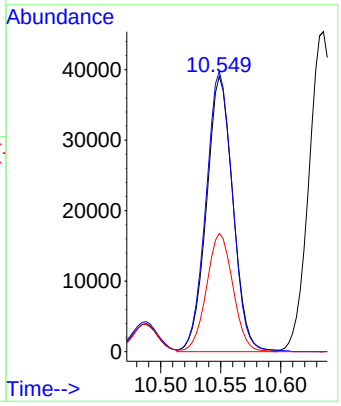
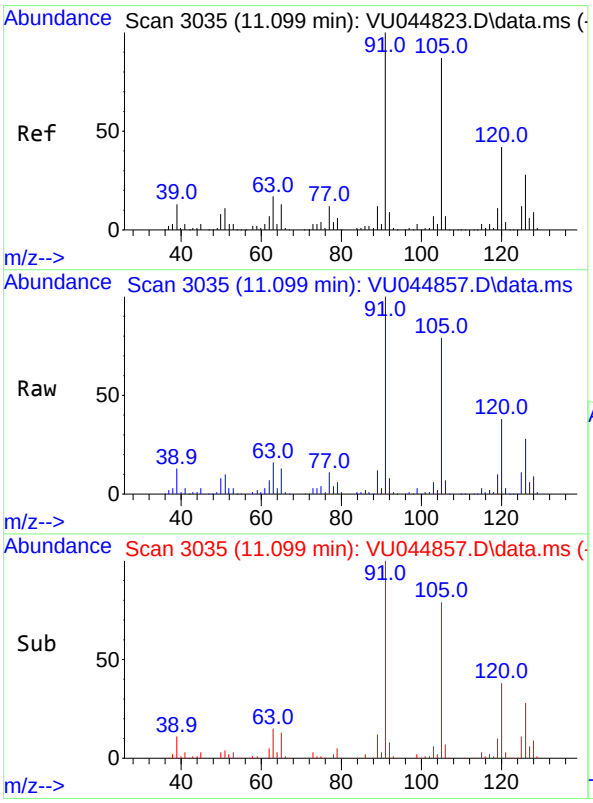


#81
trans-1,4-Dichloro-2-butene
Concen: 49.912 ug/l
RT: 10.549 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 75 Resp: 59634

Ion	Ratio	Lower	Upper
75	100		
53	102.9	82.0	123.0
89	43.0	34.2	51.4

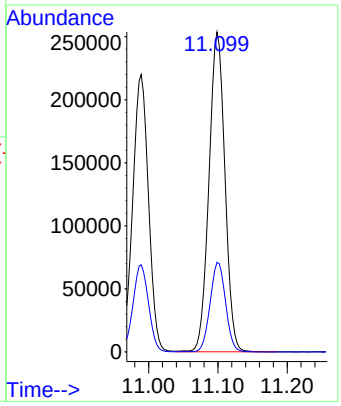




#82
4-Chlorotoluene
Concen: 53.002 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 91 Resp: 404246

Ion	Ratio	Lower	Upper
91	100		
126	27.2	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
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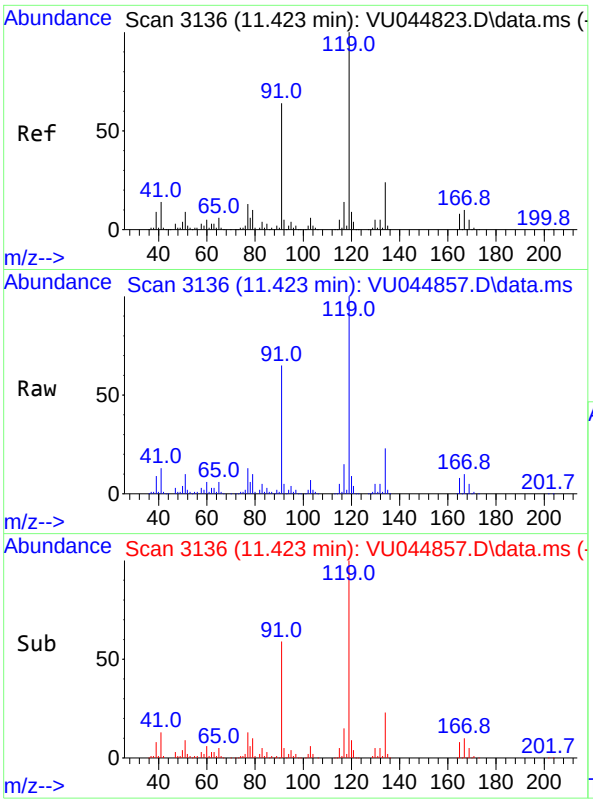
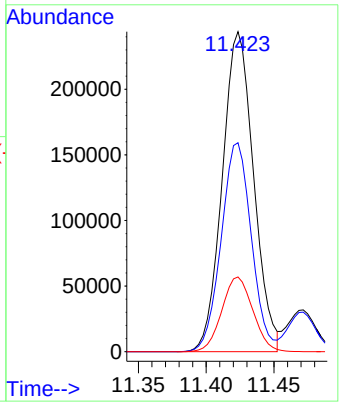
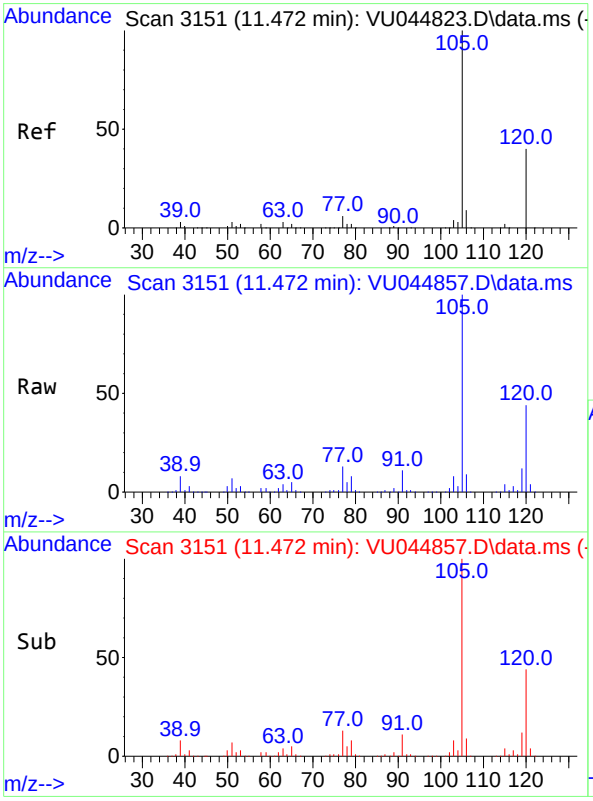


#83
tert-Butylbenzene
Concen: 52.945 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:119 Resp: 392467

Ion	Ratio	Lower	Upper
119	100		
91	63.0	30.4	91.2
134	23.1	11.5	34.5

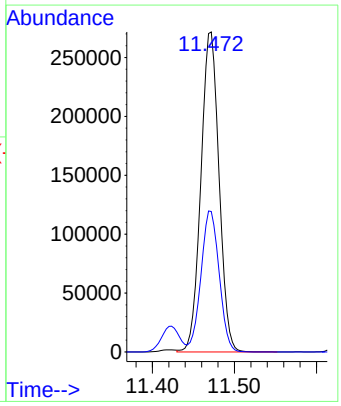




#84
1,2,4-Trimethylbenzene
Concen: 55.029 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:105 Resp: 416875

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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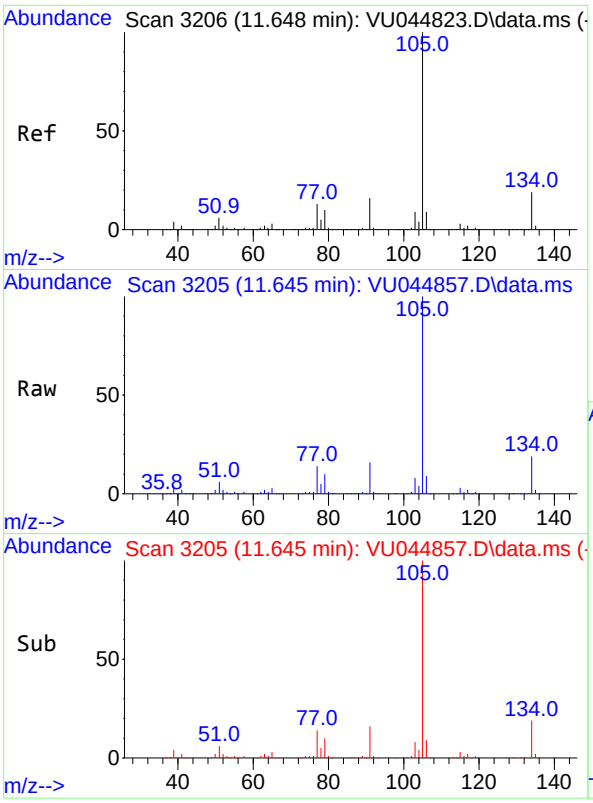
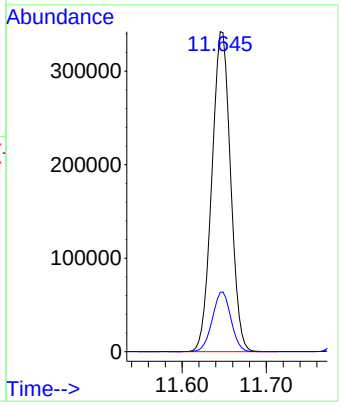
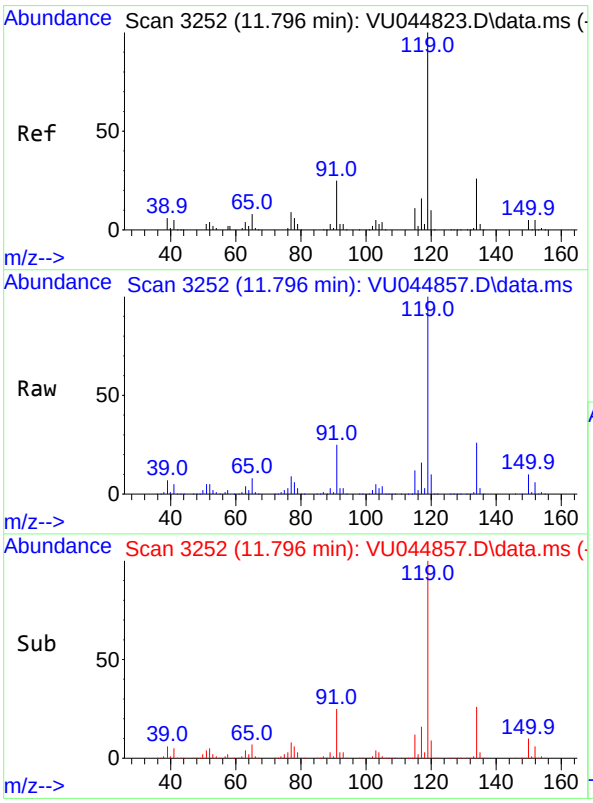


#85
sec-Butylbenzene
Concen: 54.928 ug/l
RT: 11.645 min Scan# 3205
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:105 Resp: 526513

Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.3	28.0

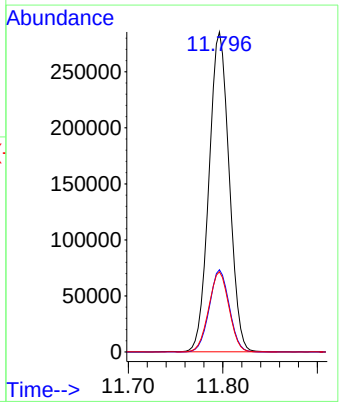




#86
p-Isopropyltoluene
Concen: 54.194 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:119 Resp: 422603

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.3
91	25.2	12.2	36.6



Instrument :
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ClientSampleId :
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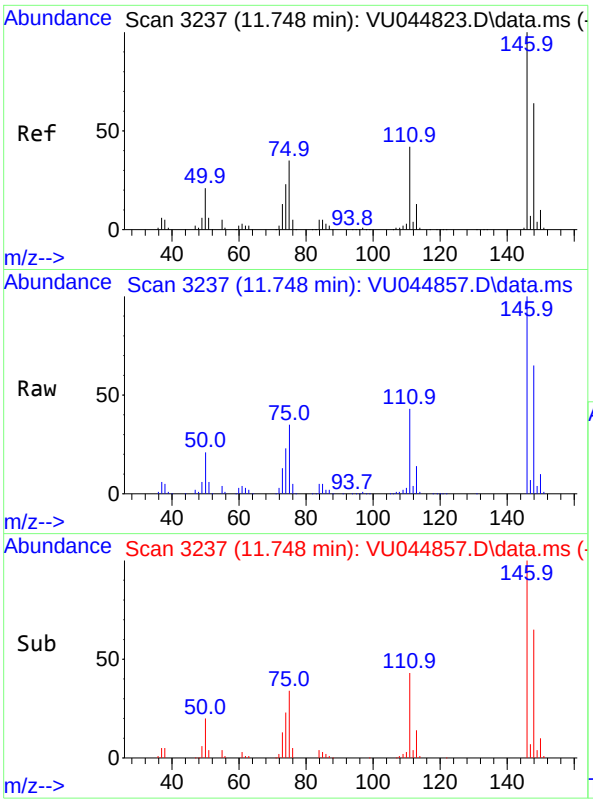
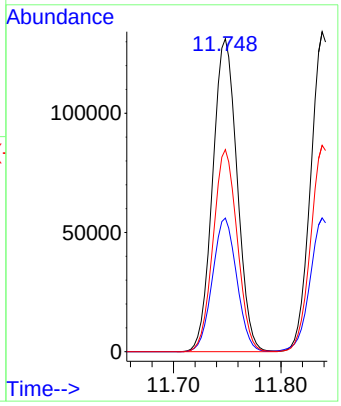
9/27/2021 11:03:13 AM

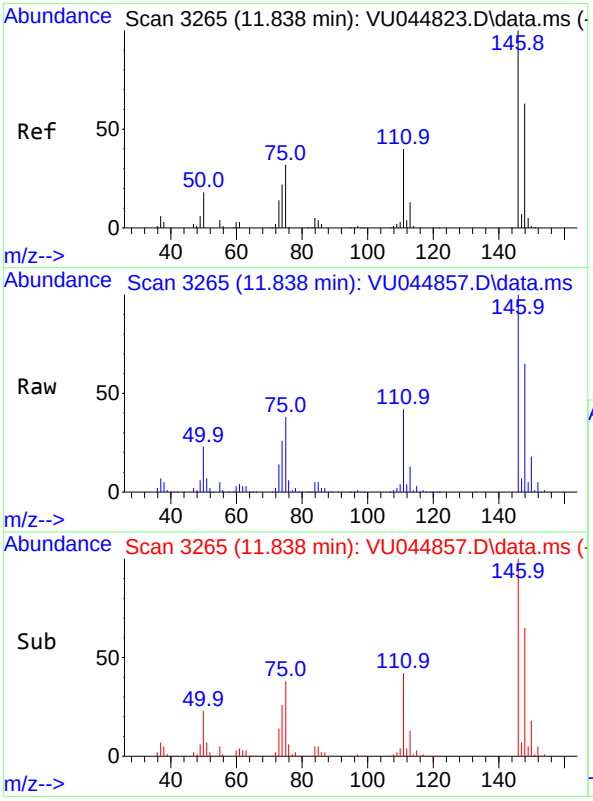


#87
1,3-Dichlorobenzene
Concen: 49.317 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:146 Resp: 207421

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	63.7	32.1	96.3

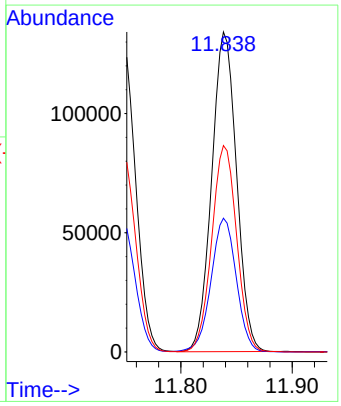




#88
1,4-Dichlorobenzene
Concen: 47.776 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

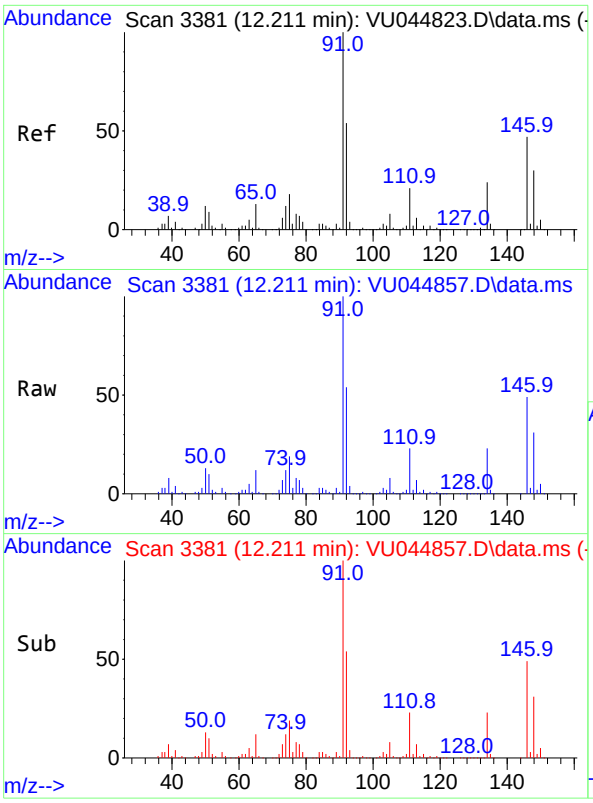
Tgt Ion:146 Resp: 207800

Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.3	61.0
148	65.1	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

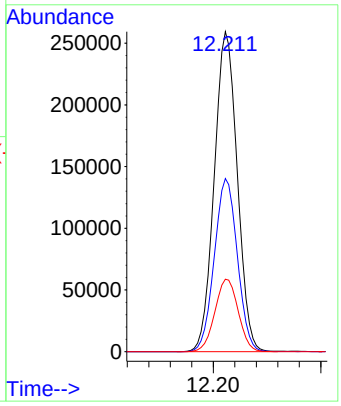
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:13 AM

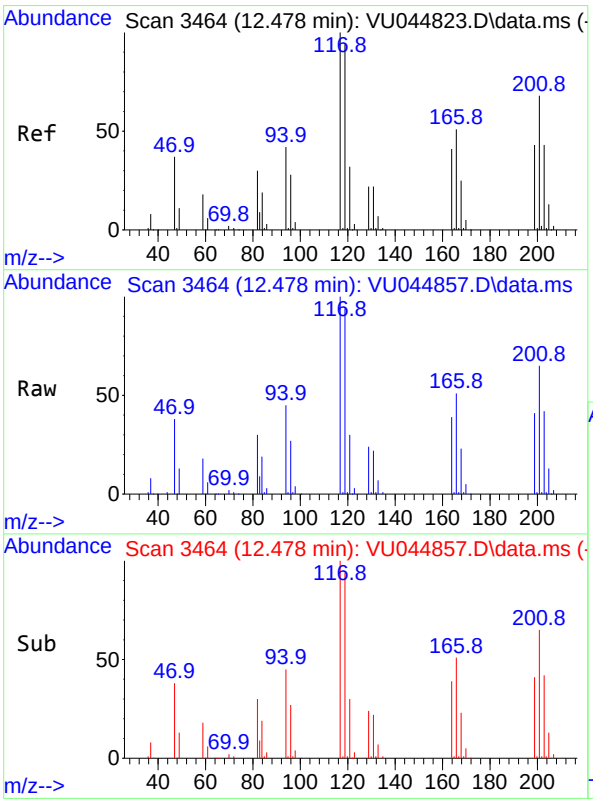


#89
n-Butylbenzene
Concen: 47.980 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion: 91 Resp: 384970

Ion	Ratio	Lower	Upper
91	100		
92	54.2	26.8	80.4
134	23.0	11.8	35.4

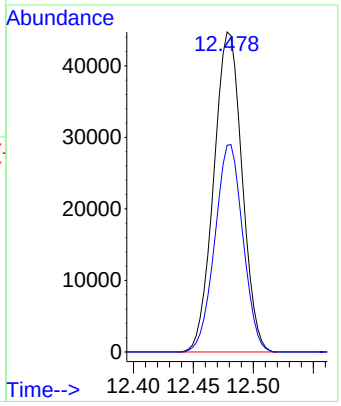




#90
Hexachloroethane
Concen: 52.179 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

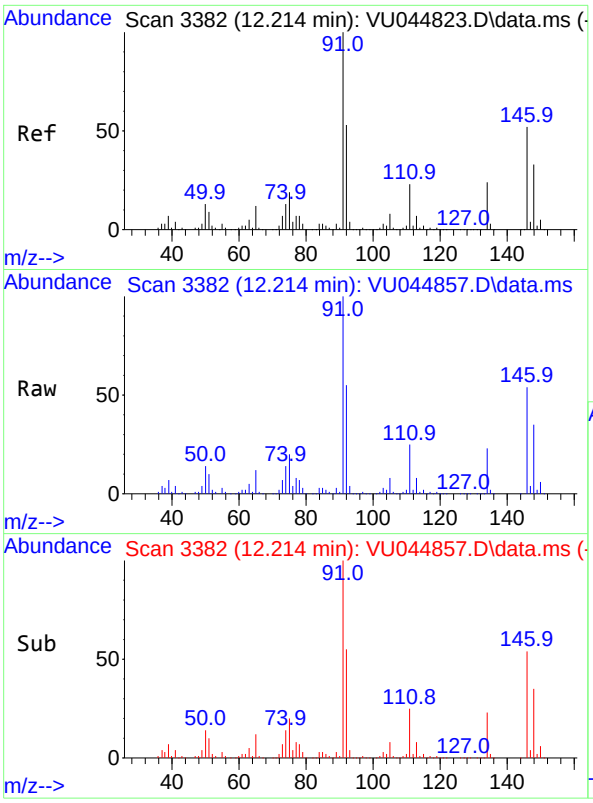
Tgt Ion:117 Resp: 73320

Ion	Ratio	Lower	Upper
117	100		
201	64.4	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

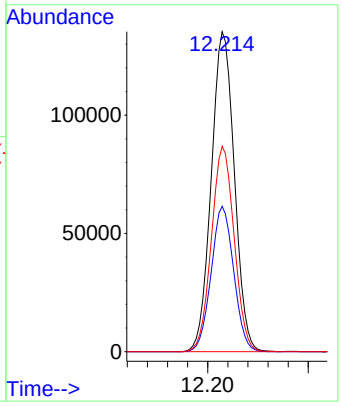
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:13 AM

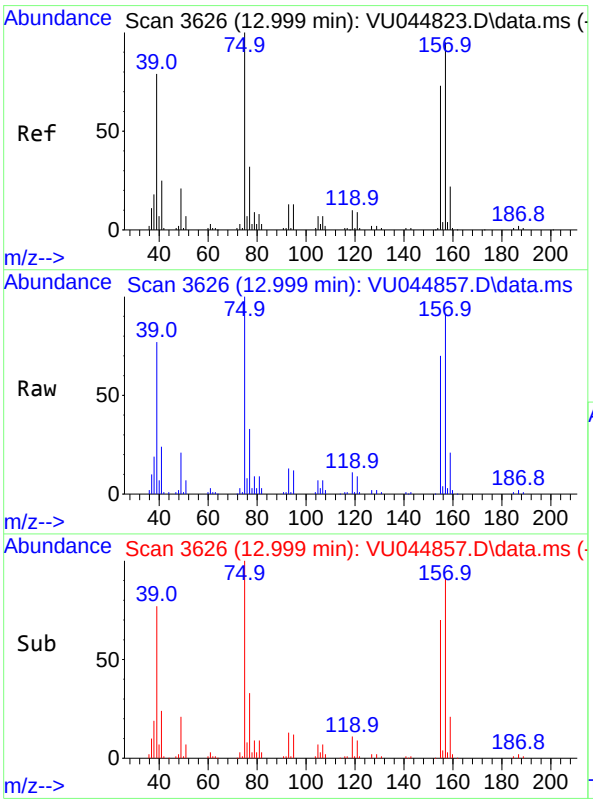


#91
1,2-Dichlorobenzene
Concen: 48.352 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:146 Resp: 215509

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.3
148	63.4	31.8	95.3

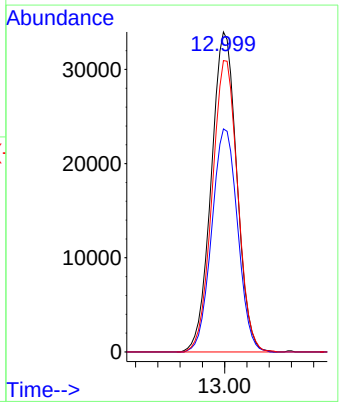




#92
1,2-Dibromo-3-Chloropropane
Concen: 54.038 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

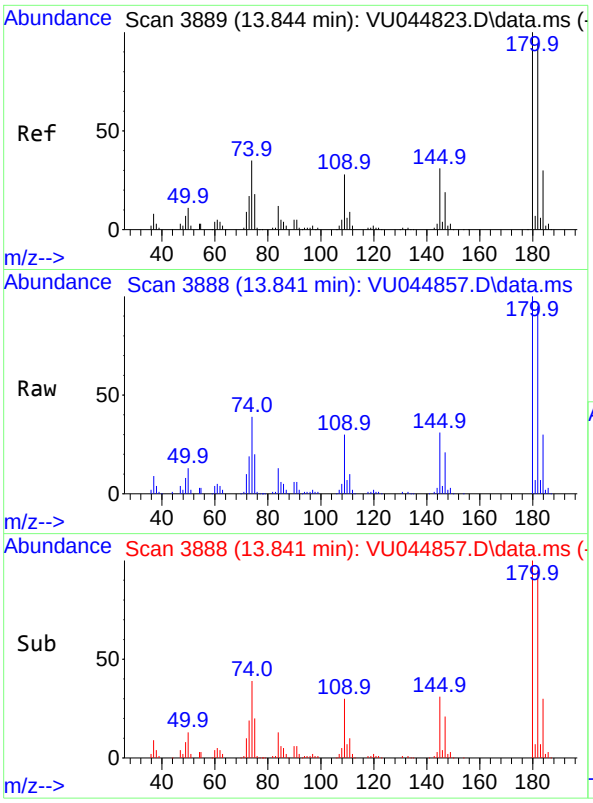
Tgt Ion: 75 Resp: 54154

Ion	Ratio	Lower	Upper
75	100		
155	70.6	36.9	110.6
157	90.9	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

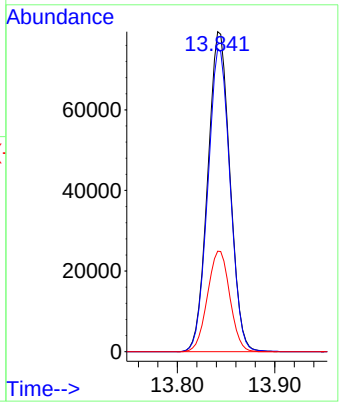
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:13 AM

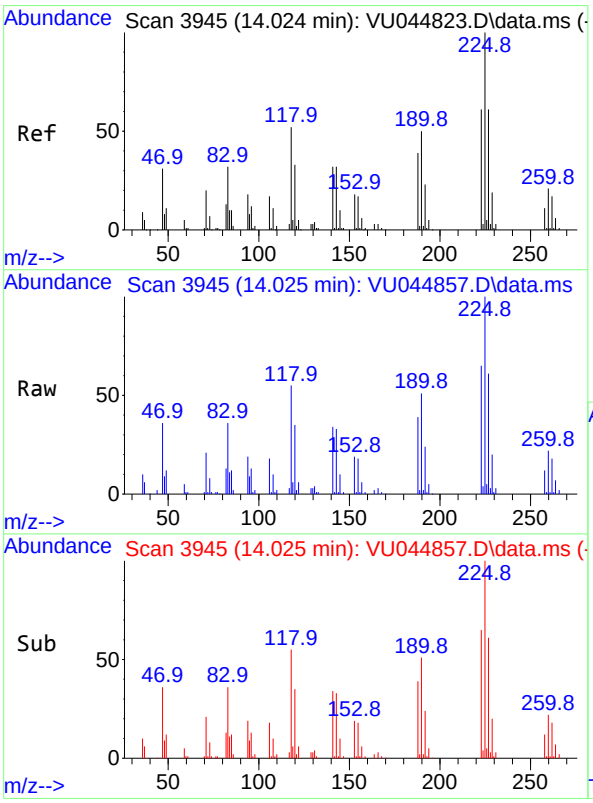


#93
1,2,4-Trichlorobenzene
Concen: 50.898 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. -0.003 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:180 Resp: 125354

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.4	142.3
145	31.7	15.4	46.2

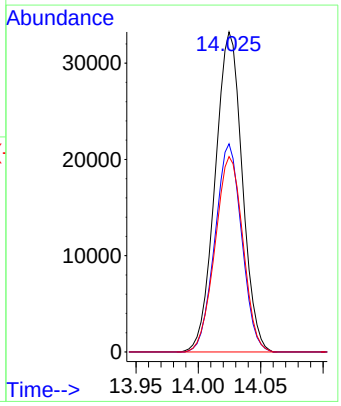




#94
Hexachlorobutadiene
Concen: 45.978 ug/l
RT: 14.025 min Scan# 3945
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

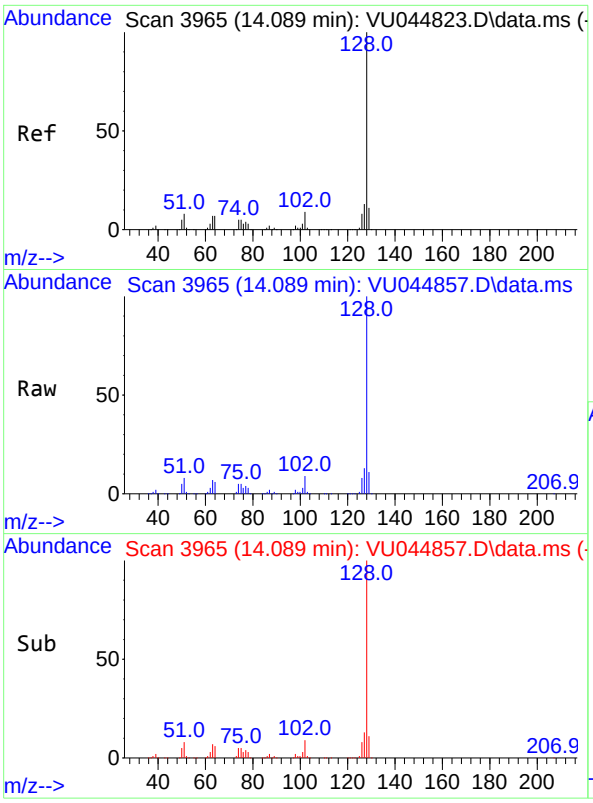
Tgt Ion:225 Resp: 50375

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.1	93.3
227	62.7	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

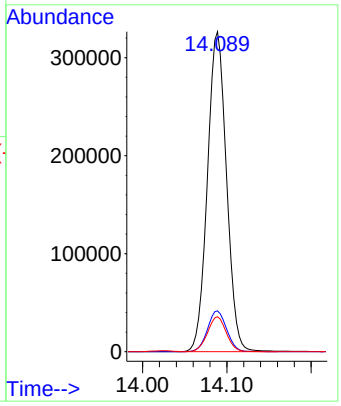
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:13 AM

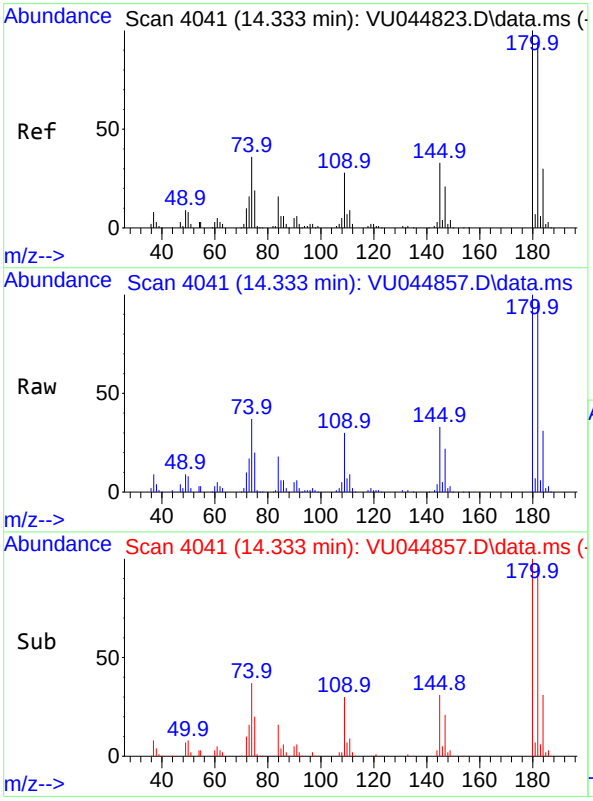


#95
Naphthalene
Concen: 52.347 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:128 Resp: 513622

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.8	8.6	13.0

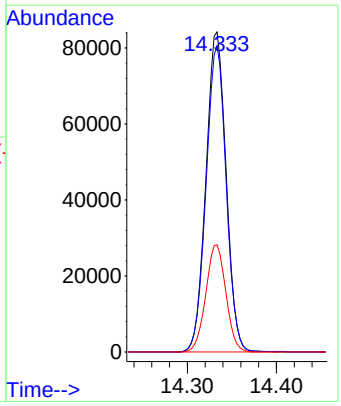




#96
1,2,3-Trichlorobenzene
Concen: 52.853 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU044857.D
Acq: 25 Sep 2021 23:35

Tgt Ion:180 Resp: 132364

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.1	141.4
145	33.3	16.4	49.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	0.599	0.571	4.7	88	0.00
3	P	Chloromethane	0.909	0.779	14.3	86	0.00
4	C	Vinyl Chloride	0.848	0.809	4.6#	91	0.00
5	T	Bromomethane	0.450	0.438	2.7	100	0.00
6	T	Chloroethane	0.659	0.545	17.3	93	0.00
7	T	Trichlorofluoromethane	1.042	1.031	1.1	94	0.00
8	T	Diethyl Ether	0.477	0.489	-2.5	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.608	0.589	3.1	91	0.00
10	T	Methyl Iodide	0.661	0.560	15.3	75	0.00
11	T	Tert butyl alcohol	0.255	0.241	5.5	93	0.00
12	CM	1,1-Dichloroethene	0.602	0.589	2.2#	93	0.00
13	T	Acrolein	0.072	0.092	-27.8#	127	0.00
14	T	Allyl chloride	1.169	1.116	4.5	89	0.00
15	T	Acrylonitrile	0.532	0.534	-0.4	93	0.00
16	T	Acetone	0.492	0.476	3.3	95	0.00
17	T	Carbon Disulfide	1.694	1.516	10.5	86	0.00
18	T	Methyl Acetate	1.644	1.615	1.8	94	0.00
19	T	Methyl tert-butyl Ether	2.248	2.374	-5.6	97	0.00
20	T	Methylene Chloride	0.797	0.746	6.4	94	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.636	1.4	92	0.00
22	T	Diisopropyl ether	2.309	2.354	-1.9	93	0.00
23	T	Vinyl Acetate	1.893	1.966	-3.9	93	0.00
24	P	1,1-Dichloroethane	1.340	1.341	-0.1	93	0.00
25	T	2-Butanone	0.747	0.741	0.8	91	0.00
26	T	2,2-Dichloropropane	1.005	0.869	13.5	82	0.00
27	T	cis-1,2-Dichloroethene	0.784	0.766	2.3	93	0.00
28	T	Bromochloromethane	0.637	0.606	4.9	90	0.00
29	T	Tetrahydrofuran	0.470	0.476	-1.3	92	0.00
30	C	Chloroform	1.347	1.318	2.2#	94	0.00
31	T	Cyclohexane	1.253	1.143	8.8	89	0.00
32	T	1,1,1-Trichloroethane	1.089	1.086	0.3	94	0.00
33	S	1,2-Dichloroethane-d4	0.873	0.893	-2.3	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.343	0.330	3.8	97	0.00
36	T	1,1-Dichloropropene	0.531	0.493	7.2	91	0.00
37	T	Ethyl Acetate	0.778	0.738	5.1	94	0.00
38	T	Carbon Tetrachloride	0.474	0.441	7.0	89	0.00
39	T	Methylcyclohexane	0.600	0.569	5.2	90	0.00
40	TM	Benzene	1.617	1.519	6.1	93	0.00
41	T	Methacrylonitrile	0.389	0.382	1.8	93	0.00
42	TM	1,2-Dichloroethane	0.636	0.609	4.2	96	0.00
43	T	Isopropyl Acetate	1.089	1.060	2.7	96	0.00
44	TM	Trichloroethene	0.389	0.351	9.8	93	0.00
45	C	1,2-Dichloropropane	0.438	0.419	4.3#	92	0.00
46	T	Dibromomethane	0.290	0.280	3.4	95	0.00
47	T	Bromodichloromethane	0.572	0.543	5.1	93	0.00
48	T	Methyl methacrylate	0.514	0.504	1.9	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.013	0.013	0.0	92	0.00
50	S	Toluene-d8	1.295	1.256	3.0	96	0.00
51	T	4-Methyl-2-Pentanone	0.776	0.747	3.7	93	0.00
52	CM	Toluene	0.967	0.931	3.7#	93	0.00
53	T	t-1,3-Dichloropropene	0.596	0.583	2.2	93	0.00
54	T	cis-1,3-Dichloropropene	0.646	0.626	3.1	92	0.00
55	T	1,1,2-Trichloroethane	0.413	0.391	5.3	94	0.00
56	T	Ethyl methacrylate	0.652	0.668	-2.5	96	0.00
57	T	1,3-Dichloropropane	0.736	0.704	4.3	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.256	-76.6#	168#	0.00
59	T	2-Hexanone	0.623	0.601	3.5	93	0.00
60	T	Dibromochloromethane	0.396	0.376	5.1	92	0.00
61	T	1,2-Dibromoethane	0.434	0.414	4.6	94	0.00
62	S	4-Bromofluorobenzene	0.481	0.461	4.2	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64	T	Tetrachloroethene	0.339	0.321	5.3	90	0.00
65	PM	Chlorobenzene	1.038	1.005	3.2	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.370	0.357	3.5	93	0.00
67	C	Ethyl Benzene	1.853	1.891	-2.1#	95	0.00
68	T	m/p-Xylenes	0.709	0.713	-0.6	92	0.00
69	T	o-Xylene	0.685	0.710	-3.6	95	0.00
70	T	Styrene	1.150	1.200	-4.3	94	0.00
71	P	Bromoform	0.306	0.288	5.9	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73	T	Isopropylbenzene	3.549	3.759	-5.9	93	0.00
74	T	N-amyl acetate	1.809	1.967	-8.7	95	0.00
75	P	1,1,2,2-Tetrachloroethane	1.617	1.591	1.6	95	0.00
76	T	1,2,3-Trichloropropane	1.514	1.526	-0.8	96	0.00
77	T	Bromobenzene	0.848	0.864	-1.9	93	0.00
78	T	n-propylbenzene	4.300	4.579	-6.5	93	0.00
79	T	2-Chlorotoluene	2.621	2.712	-3.5	93	0.00
80	T	1,3,5-Trimethylbenzene	3.006	3.222	-7.2	92	0.00
81	T	trans-1,4-Dichloro-2-butene	0.467	0.467	0.0	91	0.00
82	T	4-Chlorotoluene	2.984	3.163	-6.0	93	0.00
83	T	tert-Butylbenzene	2.900	3.071	-5.9	93	0.00
84	T	1,2,4-Trimethylbenzene	2.964	3.262	-10.1	93	0.00
85	T	sec-Butylbenzene	3.750	4.119	-9.8	94	0.00
86	T	p-Isopropyltoluene	3.051	3.306	-8.4	91	0.00
87	T	1,3-Dichlorobenzene	1.645	1.623	1.3	91	0.00
88	T	1,4-Dichlorobenzene	1.701	1.626	4.4	90	0.00
89	T	n-Butylbenzene	2.805	3.012	-7.4	91	0.00
90	T	Hexachloroethane	0.550	0.574	-4.4	97	0.00
91	T	1,2-Dichlorobenzene	1.744	1.686	3.3	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.392	0.424	-8.2	97	0.00
93	T	1,2,4-Trichlorobenzene	0.963	0.981	-1.9	88	0.00
94	T	Hexachlorobutadiene	0.429	0.394	8.2	83	0.00
95	T	Naphthalene	3.360	4.019	-19.6	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.980	1.036	-5.7	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.000	47.658	4.7	88	0.00
3	P	Chloromethane	50.000	42.859	14.3	86	0.00
4	C	Vinyl Chloride	50.000	47.715	4.6#	91	0.00
5	T	Bromomethane	50.000	53.476	-7.0	100	0.00
6	T	Chloroethane	50.000	47.899	4.2	93	0.00
7	T	Trichlorofluoromethane	50.000	49.478	1.0	94	0.00
8	T	Diethyl Ether	50.000	51.308	-2.6	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.442	3.1	91	0.00
10	T	Methyl Iodide	50.000	42.362	15.3	75	0.00
11	T	Tert butyl alcohol	250.000	236.446	5.4	93	0.00
12	CM	1,1-Dichloroethene	50.000	48.935	2.1#	93	0.00
13	T	Acrolein	250.000	335.305	-34.1#	127	0.00
14	T	Allyl chloride	50.000	47.752	4.5	89	0.00
15	T	Acrylonitrile	250.000	250.841	-0.3	93	0.00
16	T	Acetone	250.000	241.728	3.3	95	0.00
17	T	Carbon Disulfide	50.000	44.767	10.5	86	0.00
18	T	Methyl Acetate	50.000	49.092	1.8	94	0.00
19	T	Methyl tert-butyl Ether	50.000	52.803	-5.6	97	0.00
20	T	Methylene Chloride	50.000	46.817	6.4	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.316	1.4	92	0.00
22	T	Diisopropyl ether	50.000	50.981	-2.0	93	0.00
23	T	Vinyl Acetate	250.000	259.549	-3.8	93	0.00
24	P	1,1-Dichloroethane	50.000	50.029	-0.1	93	0.00
25	T	2-Butanone	250.000	247.960	0.8	91	0.00
26	T	2,2-Dichloropropane	50.000	43.257	13.5	82	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.880	2.2	93	0.00
28	T	Bromochloromethane	50.000	47.584	4.8	90	0.00
29	T	Tetrahydrofuran	250.000	253.059	-1.2	92	0.00
30	C	Chloroform	50.000	48.909	2.2#	94	0.00
31	T	Cyclohexane	50.000	45.612	8.8	89	0.00
32	T	1,1,1-Trichloroethane	50.000	49.865	0.3	94	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.143	-2.3	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	48.147	3.7	97	0.00
36	T	1,1-Dichloropropene	50.000	46.496	7.0	91	0.00
37	T	Ethyl Acetate	50.000	47.398	5.2	94	0.00
38	T	Carbon Tetrachloride	50.000	46.544	6.9	89	0.00
39	T	Methylcyclohexane	50.000	47.396	5.2	90	0.00
40	TM	Benzene	50.000	46.963	6.1	93	0.00
41	T	Methacrylonitrile	50.000	49.159	1.7	93	0.00
42	TM	1,2-Dichloroethane	50.000	47.830	4.3	96	0.00
43	T	Isopropyl Acetate	50.000	48.645	2.7	96	0.00
44	TM	Trichloroethene	50.000	45.194	9.6	93	0.00
45	C	1,2-Dichloropropane	50.000	47.888	4.2#	92	0.00
46	T	Dibromomethane	50.000	48.222	3.6	95	0.00
47	T	Bromodichloromethane	50.000	47.425	5.2	93	0.00
48	T	Methyl methacrylate	50.000	49.061	1.9	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
LabSampleId : VSTDCCC050

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	990.593	0.9	92	0.00
50	S	Toluene-d8	50.000	48.476	3.0	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	240.476	3.8	93	0.00
52	CM	Toluene	50.000	48.149	3.7#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	48.889	2.2	93	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.485	3.0	92	0.00
55	T	1,1,2-Trichloroethane	50.000	47.289	5.4	94	0.00
56	T	Ethyl methacrylate	50.000	45.527	8.9	96	0.00
57	T	1,3-Dichloropropane	50.000	47.816	4.4	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	350.842	-40.3#	168	0.00
59	T	2-Hexanone	250.000	241.345	3.5	93	0.00
60	T	Dibromochloromethane	50.000	47.512	5.0	92	0.00
61	T	1,2-Dibromoethane	50.000	47.634	4.7	94	0.00
62	S	4-Bromofluorobenzene	50.000	47.907	4.2	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64	T	Tetrachloroethene	50.000	47.414	5.2	90	0.00
65	PM	Chlorobenzene	50.000	48.388	3.2	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.221	3.6	93	0.00
67	C	Ethyl Benzene	50.000	51.042	-2.1#	95	0.00
68	T	m/p-Xylenes	100.000	100.588	-0.6	92	0.00
69	T	o-Xylene	50.000	51.800	-3.6	95	0.00
70	T	Styrene	50.000	46.900	6.2	94	0.00
71	P	Bromoform	50.000	46.962	6.1	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73	T	Isopropylbenzene	50.000	52.959	-5.9	93	0.00
74	T	N-amyl acetate	50.000	54.364	-8.7	95	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.199	1.6	95	0.00
76	T	1,2,3-Trichloropropane	50.000	50.382	-0.8	96	0.00
77	T	Bromobenzene	50.000	50.965	-1.9	93	0.00
78	T	n-propylbenzene	50.000	53.238	-6.5	93	0.00
79	T	2-Chlorotoluene	50.000	51.734	-3.5	93	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.592	-7.2	92	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.912	0.2	91	0.00
82	T	4-Chlorotoluene	50.000	53.002	-6.0	93	0.00
83	T	tert-Butylbenzene	50.000	52.945	-5.9	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.029	-10.1	93	0.00
85	T	sec-Butylbenzene	50.000	54.928	-9.9	94	0.00
86	T	p-Isopropyltoluene	50.000	54.194	-8.4	91	0.00
87	T	1,3-Dichlorobenzene	50.000	49.317	1.4	91	0.00
88	T	1,4-Dichlorobenzene	50.000	47.776	4.4	90	0.00
89	T	n-Butylbenzene	50.000	47.980	4.0	91	0.00
90	T	Hexachloroethane	50.000	52.179	-4.4	97	0.00
91	T	1,2-Dichlorobenzene	50.000	48.352	3.3	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.038	-8.1	97	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.898	-1.8	88	0.00
94	T	Hexachlorobutadiene	50.000	45.978	8.0	83	0.00
95	T	Naphthalene	50.000	52.347	-4.7	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044857.D
Acq On : 25 Sep 2021 23:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:52:16 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.853	-5.7	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/27/2021 12:20

Lab File ID: VU044885.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.599	0.677		13.02	20
Chloromethane	0.909	0.806	0.1	-11.33	20
Vinyl Chloride	0.848	0.860		1.41	20
Bromomethane	0.450	0.380		-15.56	20
Chloroethane	0.659	0.575		-12.75	20
Trichlorofluoromethane	1.042	1.116		7.1	20
1,1,2-Trichlorotrifluoroethane	0.608	0.642		5.59	20
1,1-Dichloroethene	0.602	0.641		6.48	20
Acetone	0.492	0.733		48.98	20
Carbon Disulfide	1.694	1.862		9.92	20
Methyl tert-butyl Ether	2.248	2.440		8.54	20
Methyl Acetate	1.644	1.467		-10.77	20
Methylene Chloride	0.797	0.755		-5.27	20
trans-1,2-Dichloroethene	0.645	0.686		6.36	20
1,1-Dichloroethane	1.340	1.371	0.1	2.31	20
Cyclohexane	1.253	1.276		1.84	20
2-Butanone	0.747	0.838		12.18	20
Carbon Tetrachloride	0.474	0.505		6.54	20
cis-1,2-Dichloroethene	0.784	0.812		3.57	20
Bromochloromethane	0.637	0.503		-21.04	20
Chloroform	1.347	1.350		0.22	20
1,1,1-Trichloroethane	1.089	1.122		3.03	20
Methylcyclohexane	0.600	0.732		22	20
Benzene	1.617	1.703		5.32	20
1,2-Dichloroethane	0.636	0.672		5.66	20
Trichloroethene	0.389	0.403		3.6	20
1,2-Dichloropropane	0.438	0.450		2.74	20
Bromodichloromethane	0.572	0.597		4.37	20
4-Methyl-2-Pentanone	0.776	0.781		0.64	20
Toluene	0.967	1.068		10.44	20
t-1,3-Dichloropropene	0.596	0.698		17.11	20
cis-1,3-Dichloropropene	0.646	0.744		15.17	20
1,1,2-Trichloroethane	0.413	0.430		4.12	20
2-Hexanone	0.623	0.694		11.4	20
Dibromochloromethane	0.396	0.426		7.58	20
1,2-Dibromoethane	0.434	0.467		7.6	20
Tetrachloroethene	0.339	0.365		7.67	20
Chlorobenzene	1.038	1.132	0.3	9.06	20
Ethyl Benzene	1.853	2.145		15.76	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/27/2021 12:20

Lab File ID: VU044885.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.709	0.821		15.8	20
o-Xylene	0.685	0.804		17.37	20
Styrene	1.150	1.370		19.13	20
Bromoform	0.306	0.340	0.1	11.11	20
Isopropylbenzene	3.549	4.058		14.34	20
1,1,2,2-Tetrachloroethane	1.617	1.678	0.3	3.77	20
1,3-Dichlorobenzene	1.645	1.837		11.67	20
1,4-Dichlorobenzene	1.701	1.868		9.82	20
1,2-Dichlorobenzene	1.744	1.881		7.86	20
1,2-Dibromo-3-Chloropropane	0.392	0.428		9.18	20
1,2,4-Trichlorobenzene	0.963	1.167		21.18	20
1,2,3-Trichlorobenzene	0.980	1.158		18.16	20
1,2-Dichloroethane-d4	0.873	0.756		-13.4	20
Dibromofluoromethane	0.343	0.307		-10.5	20
Toluene-d8	1.295	1.190		-8.11	20
4-Bromofluorobenzene	0.481	0.470		-2.29	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
MMDadoda
9/28/2021 7:04:46 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	157227	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	277592	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.423	117	264605	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.819	152	137410	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	118880	43.323	ug/l	0.00
Spiked Amount 50.000			Recovery =	86.640%		
35) Dibromofluoromethane	5.295	113	85246	44.764	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.520%		
50) Toluene-d8	7.902	98	330414	45.941	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.880%		
62) 4-Bromofluorobenzene	10.636	95	130550	48.871	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.740%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	106482	56.549	ug/l	100
3) Chloromethane	1.520	50	126691	44.333	ug/l	99
4) Vinyl Chloride	1.607	62	135219	50.699	ug/l	100
5) Bromomethane	1.845	94	59695	45.630	ug/l	98
6) Chloroethane	1.919	64	90438	50.534	ug/l	99
7) Trichlorofluoromethane	2.131	101	175503	53.582	ug/l	99
8) Diethyl Ether	2.379	74	80343	53.583	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.578	101	100913	52.757	ug/l	99
10) Methyl Iodide	2.723	142	107255	51.601	ug/l	97
11) Tert butyl alcohol	3.266	59	176426m	220.282	ug/l	
12) 1,1-Dichloroethene	2.578	96	100839	53.268	ug/l	95
13) Acrolein	2.491	56	57406	265.412	ug/l	99
14) Allyl chloride	2.925	41	186145	50.660	ug/l	97
15) Acrylonitrile	3.321	53	390903	233.653	ug/l	100
16) Acetone	2.636	43	576425	372.409	ug/l	100
17) Carbon Disulfide	2.793	76	292683	54.959	ug/l	100
18) Methyl Acetate	2.951	43	230591	44.593	ug/l	97
19) Methyl tert-butyl Ether	3.369	73	383700	54.279	ug/l	100
20) Methylene Chloride	3.047	84	118702	47.375	ug/l	97
21) trans-1,2-Dichloroethene	3.356	96	107893	53.231	ug/l	97
22) Diisopropyl ether	3.999	45	374154	51.537	ug/l	99
23) Vinyl Acetate	3.961	43	1561398	262.262	ug/l	97
24) 1,1-Dichloroethane	3.874	63	215541	51.150	ug/l	100
25) 2-Butanone	4.710	43	658511	280.393	ug/l	97
26) 2,2-Dichloropropane	4.671	77	183863	58.182	ug/l	98
27) cis-1,2-Dichloroethene	4.671	96	127726	51.813	ug/l	100
28) Bromochloromethane	4.980	49	79134	39.518	ug/l	95
29) Tetrahydrofuran	5.057	42	341857	231.374	ug/l	97
30) Chloroform	5.092	83	212180	50.077	ug/l	99
31) Cyclohexane	5.391	56	200581	50.914	ug/l	96
32) 1,1,1-Trichloroethane	5.321	97	176383	51.522	ug/l	100
36) 1,1-Dichloropropene	5.530	75	161219	54.738	ug/l	99
37) Ethyl Acetate	4.809	43	206233	47.721	ug/l	98
38) Carbon Tetrachloride	5.530	117	140117	53.213	ug/l	99
39) Methylcyclohexane	6.768	83	203301	61.030	ug/l	97
40) Benzene	5.777	78	472611	52.631	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
MMDadoda
9/28/2021 7:04:46 PM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.980	41	108391	50.247	ug/l		98
42) 1,2-Dichloroethane	5.800	62	186406	52.765	ug/l		99
43) Isopropyl Acetate	5.919	43	313539	51.858	ug/l		99
44) Trichloroethene	6.546	130	111735	51.773	ug/l		99
45) 1,2-Dichloropropane	6.796	63	125052	51.456	ug/l		98
46) Dibromomethane	6.922	93	84051	52.194	ug/l		99
47) Bromodichloromethane	7.112	83	165626	52.141	ug/l		100
48) Methyl methacrylate	6.967	41	150527	52.747	ug/l		96
49) 1,4-Dioxane	6.989	88	72953	1000.252	ug/l		97
51) 4-Methyl-2-Pentanone	7.800	43	1084414	251.658	ug/l		98
52) Toluene	7.973	92	296481	55.224	ug/l		100
53) t-1,3-Dichloropropene	8.214	75	193778	58.554	ug/l		100
54) cis-1,3-Dichloropropene	7.613	75	206502	57.619	ug/l		97
55) 1,1,2-Trichloroethane	8.404	97	119487	52.056	ug/l		98
56) Ethyl methacrylate	8.340	69	213084	52.036	ug/l		99
57) 1,3-Dichloropropane	8.581	76	213318	52.191	ug/l		100
58) 2-Chloroethyl Vinyl ether	7.468	63	303310	302.927	ug/l		98
59) 2-Hexanone	8.693	43	963671	278.611	ug/l		98
60) Dibromochloromethane	8.816	129	118147	53.751	ug/l		99
61) 1,2-Dibromoethane	8.928	107	129508	53.735	ug/l		99
64) Tetrachloroethene	8.558	164	96661	53.894	ug/l		99
65) Chlorobenzene	9.452	112	299488	54.521	ug/l		100
66) 1,1,1,2-Tetrachloroethane	9.539	131	104892	53.536	ug/l		99
67) Ethyl Benzene	9.574	91	567578	57.889	ug/l		100
68) m/p-Xylenes	9.697	106	434367	115.833	ug/l		98
69) o-Xylene	10.105	106	212629	58.639	ug/l		97
70) Styrene	10.118	104	362402	53.403	ug/l		99
71) Bromoform	10.298	173	90024	55.531	ug/l	#	99
73) Isopropylbenzene	10.488	105	557589	57.173	ug/l		100
74) N-amyl acetate	10.327	43	291368	58.615	ug/l		98
75) 1,1,2,2-Tetrachloroethane	10.790	83	230529	51.884	ug/l		99
76) 1,2,3-Trichloropropane	10.832	75	222097m	53.376	ug/l		
77) Bromobenzene	10.787	156	128474	55.139	ug/l		100
78) n-propylbenzene	10.909	91	695045	58.815	ug/l		100
79) 2-Chlorotoluene	10.989	91	405120	56.249	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	491314	59.473	ug/l		99
81) trans-1,4-Dichloro-2-b...	10.552	75	78365	61.009	ug/l		97
82) 4-Chlorotoluene	11.102	91	475562	57.998	ug/l		100
83) tert-Butylbenzene	11.423	119	462398	58.022	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	488856	60.024	ug/l		100
85) sec-Butylbenzene	11.648	105	621137	60.274	ug/l		100
86) p-Isopropyltoluene	11.796	119	511835	61.053	ug/l		99
87) 1,3-Dichlorobenzene	11.751	146	252434	55.828	ug/l		99
88) 1,4-Dichlorobenzene	11.841	146	256744	54.907	ug/l		99
89) n-Butylbenzene	12.214	91	492000	56.797	ug/l		99
90) Hexachloroethane	12.481	117	85527	56.616	ug/l		97
91) 1,2-Dichlorobenzene	12.217	146	258513	53.950	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	13.002	75	58834	54.608	ug/l		97
93) 1,2,4-Trichlorobenzene	13.844	180	160379	60.572	ug/l		99
94) Hexachlorobutadiene	14.028	225	65187	55.342	ug/l		99
95) Naphthalene	14.089	128	591791	56.034	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	159089	59.088	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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9/28/2021 7:04:46 PM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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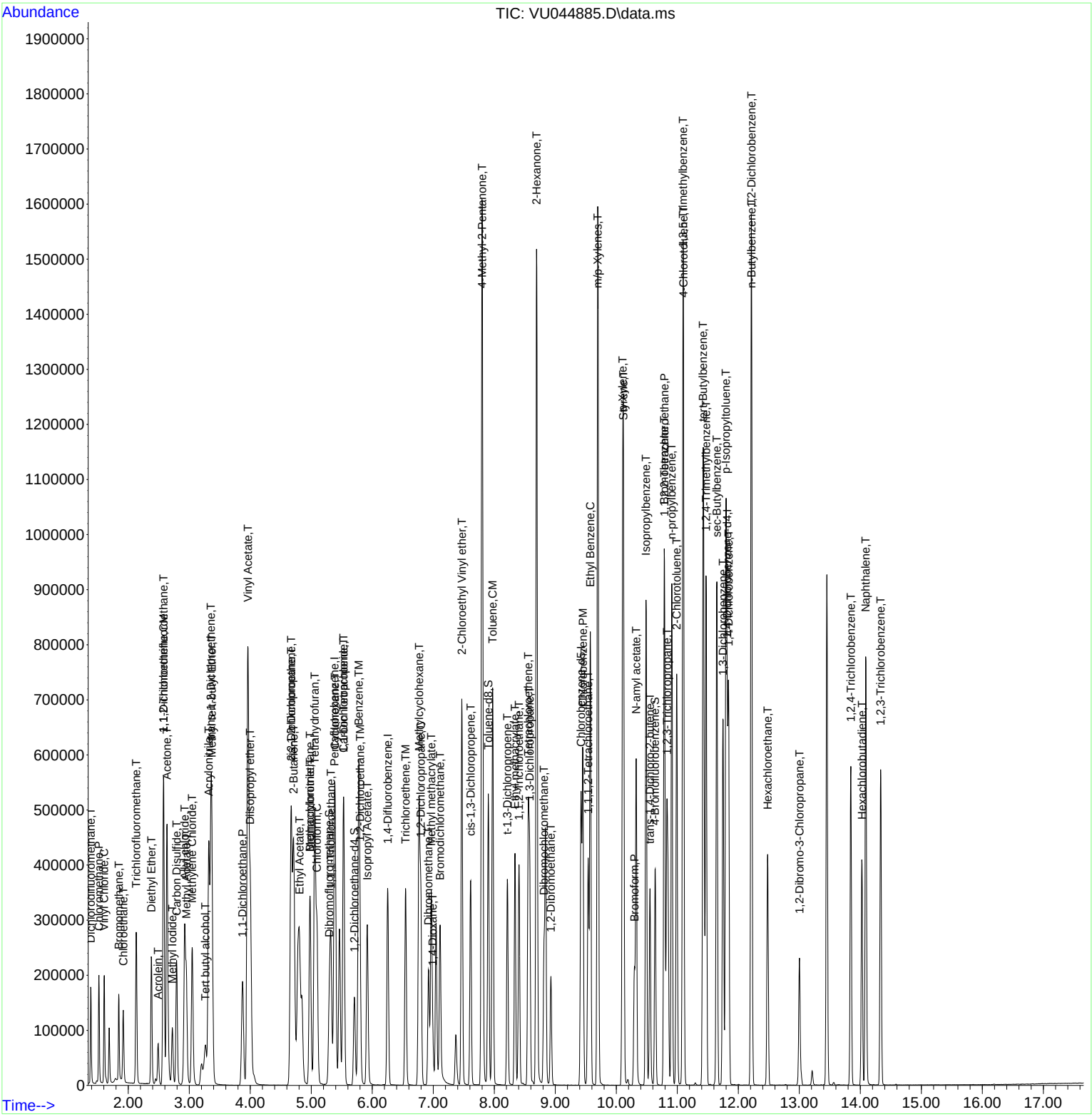

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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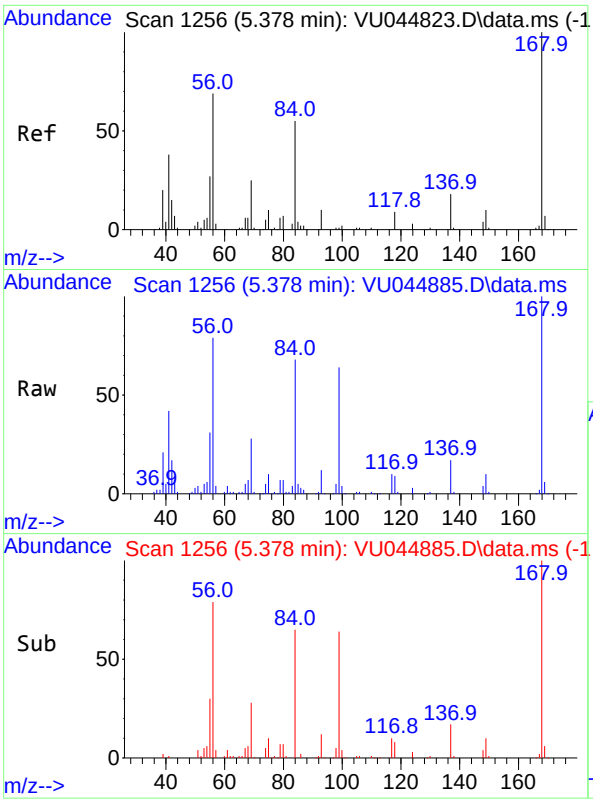
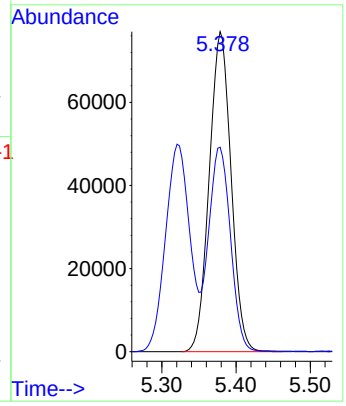
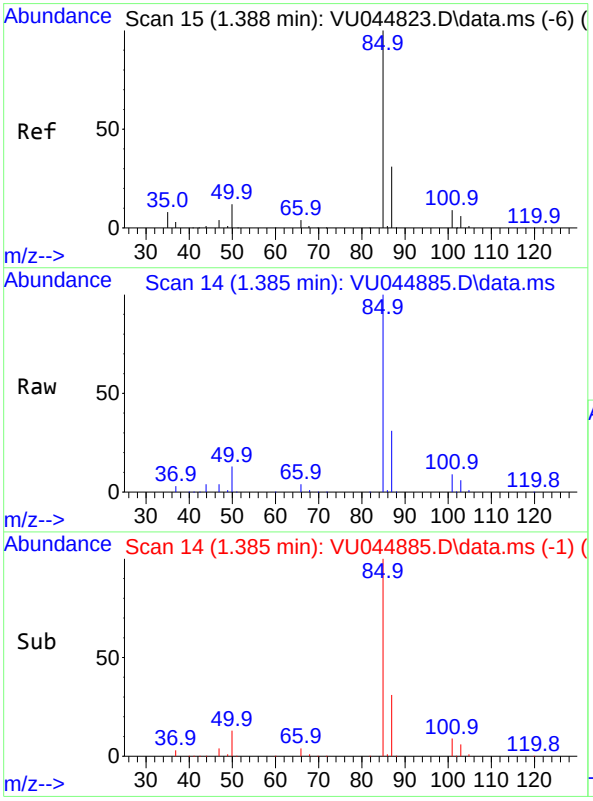


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:168 Resp: 157227

Ion	Ratio	Lower	Upper
168	100		
99	63.9	51.4	77.0

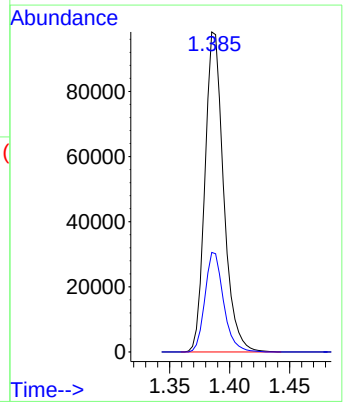




#2
Dichlorodifluoromethane
Concen: 56.549 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 85 Resp: 106482

Ion	Ratio	Lower	Upper
85	100		
87	31.1	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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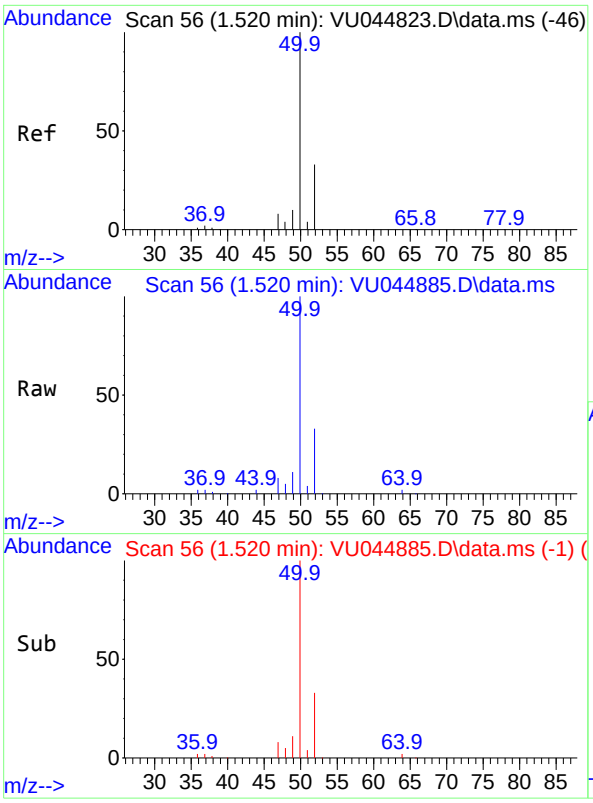
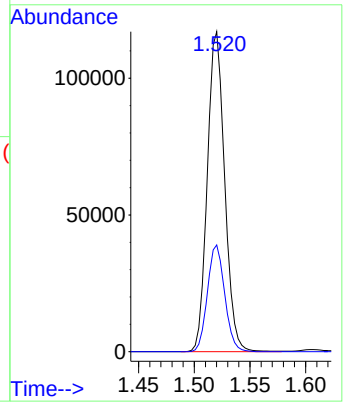
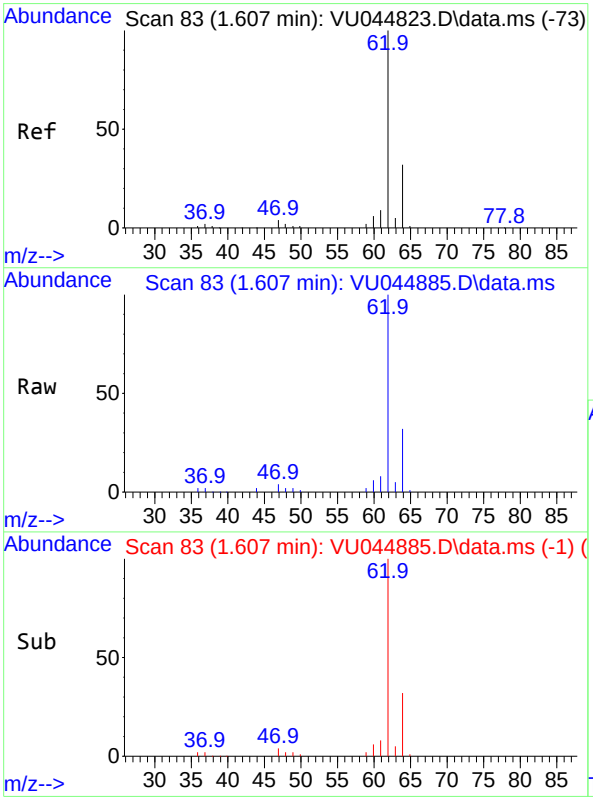


#3
Chloromethane
Concen: 44.333 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 50 Resp: 126691

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.3	39.5

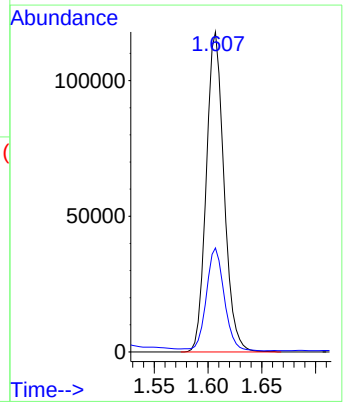




#4
Vinyl Chloride
Concen: 50.699 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 62 Resp: 135219

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.6	38.4



Instrument :
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ClientSampleId :
VSTDCCC050

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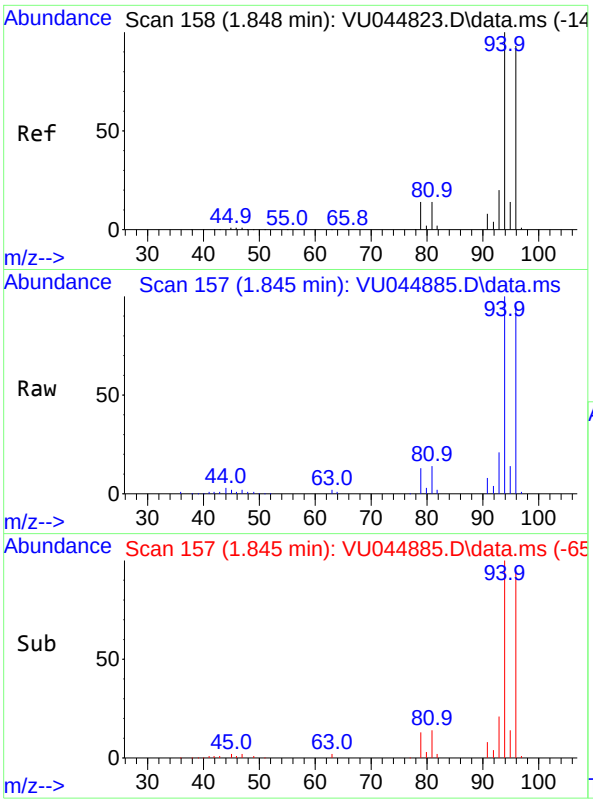
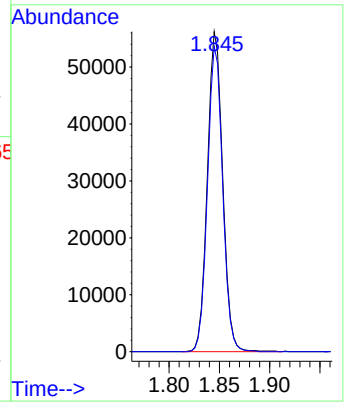
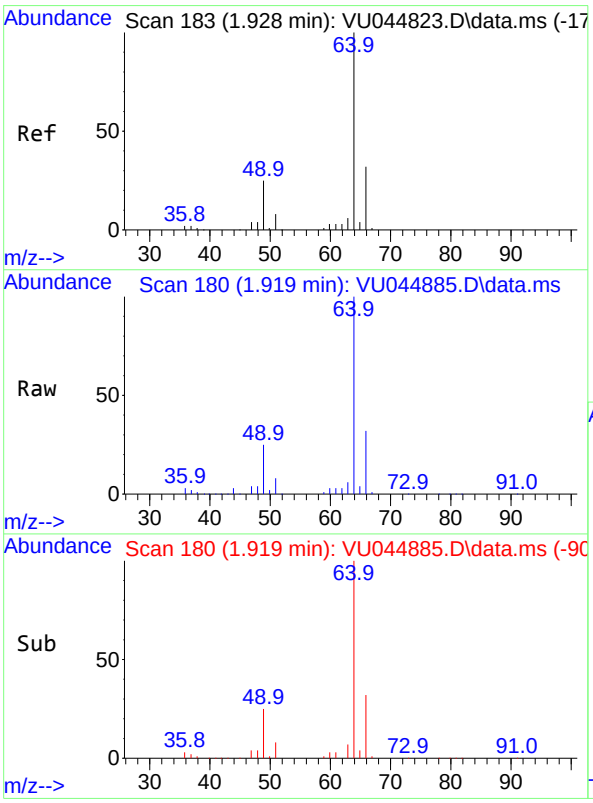


#5
Bromomethane
Concen: 45.630 ug/l
RT: 1.845 min Scan# 157
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 94 Resp: 59695

Ion	Ratio	Lower	Upper
94	100		
96	95.4	74.5	111.7

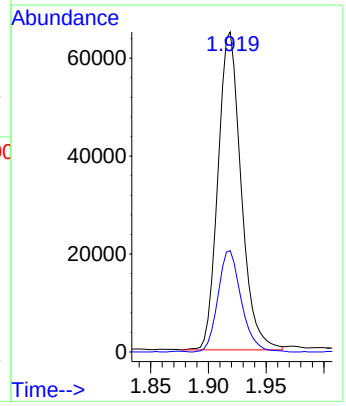




#6
Chloroethane
Concen: 50.534 ug/l
RT: 1.919 min Scan# 180
Delta R.T. -0.009 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 64 Resp: 90438

Ion	Ratio	Lower	Upper
64	100		
66	31.6	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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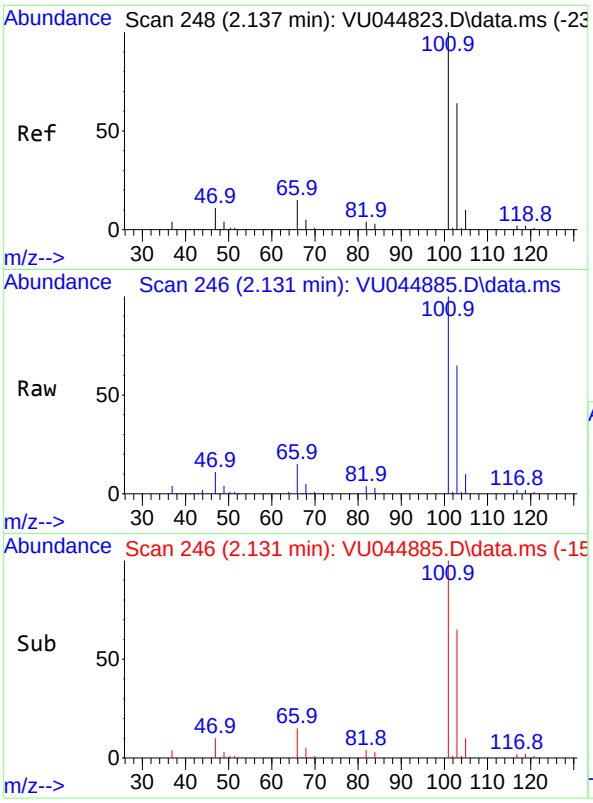
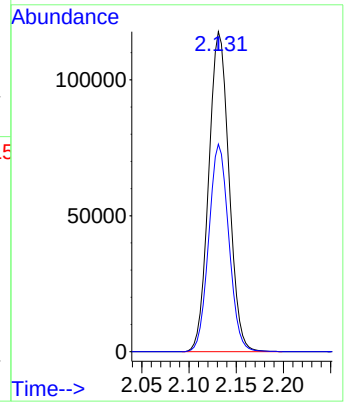
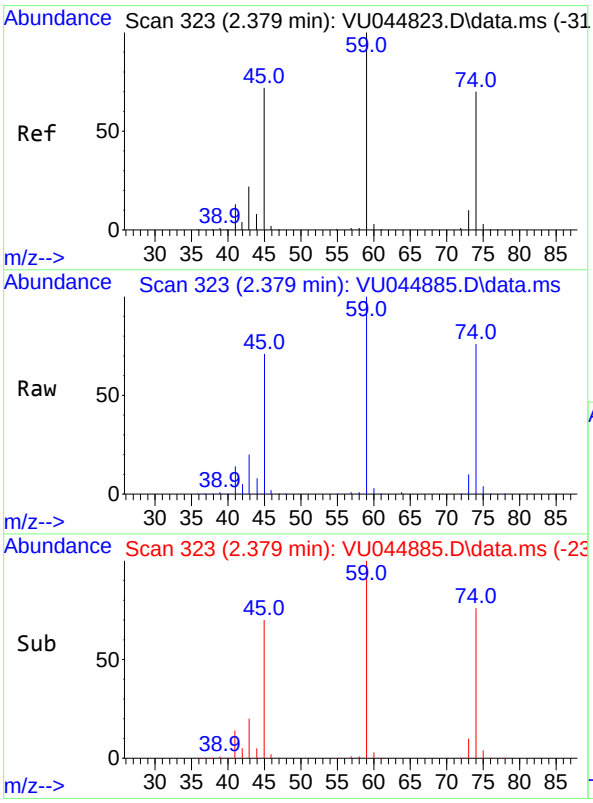


#7
Trichlorofluoromethane
Concen: 53.582 ug/l
RT: 2.131 min Scan# 246
Delta R.T. -0.006 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:101 Resp: 175503

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.2	76.8

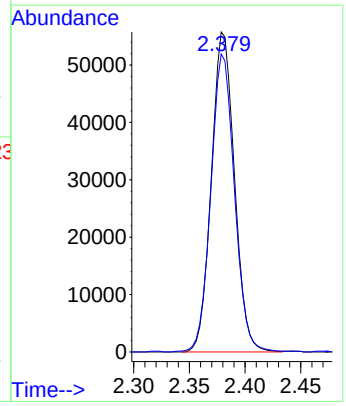




#8
Diethyl Ether
Concen: 53.583 ug/l
RT: 2.379 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 74 Resp: 80343

Ion	Ratio	Lower	Upper
74	100		
45	95.1	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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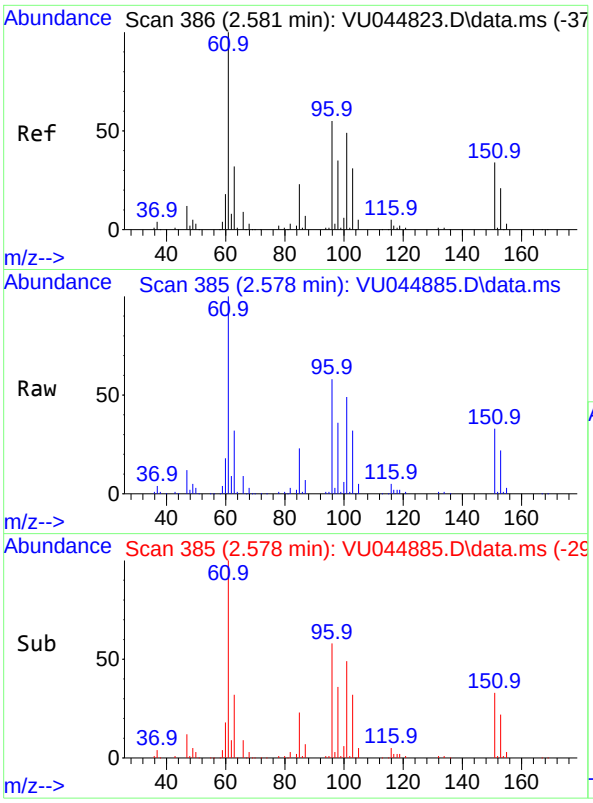
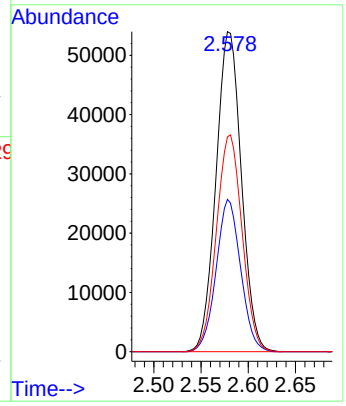
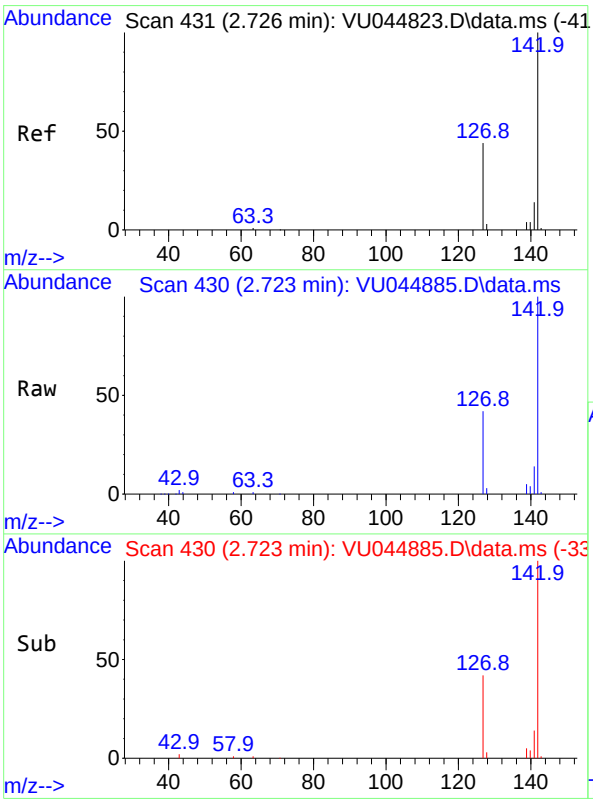


#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.757 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:101 Resp: 100913

Ion	Ratio	Lower	Upper
101	100		
85	46.0	37.2	55.8
151	68.6	55.8	83.8

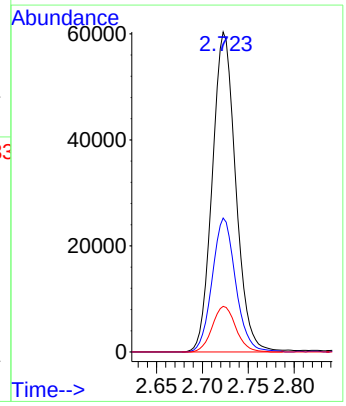




#10
Methyl Iodide
Concen: 51.601 ug/l
RT: 2.723 min Scan# 430
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:142 Resp: 107255

Ion	Ratio	Lower	Upper
142	100		
127	42.0	35.6	53.4
141	14.4	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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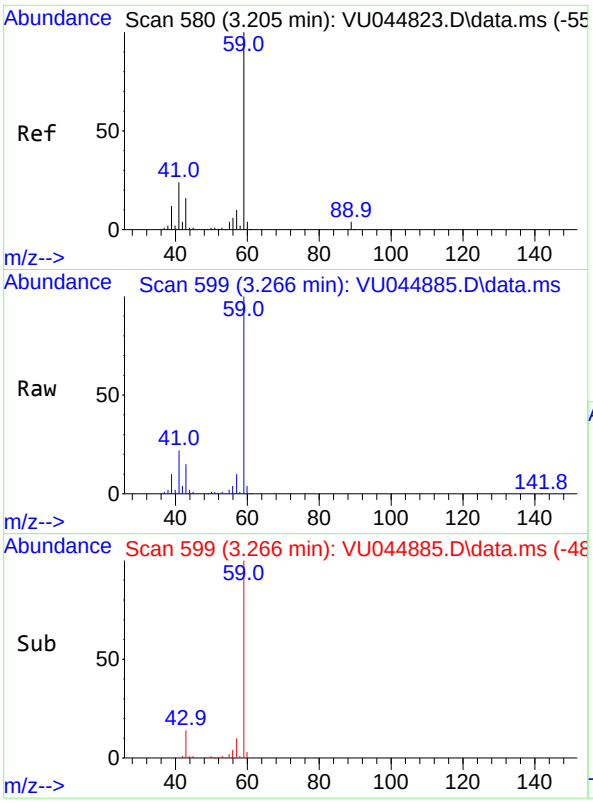
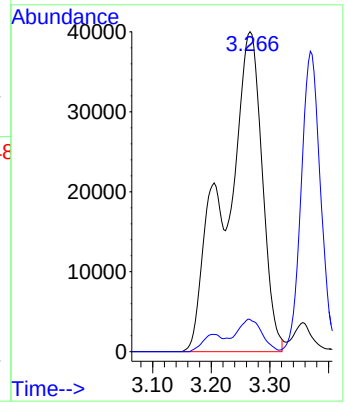
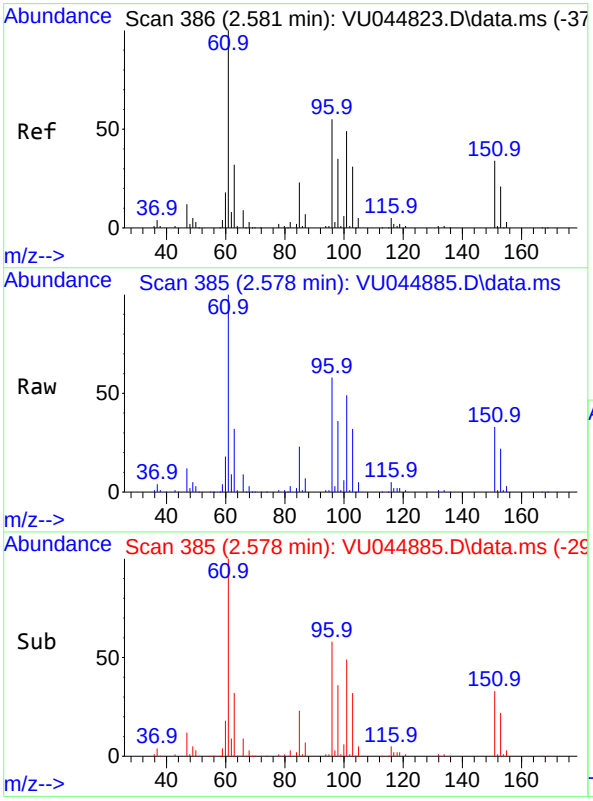


#11
Tert butyl alcohol
Concen: 220.282 ug/l m
RT: 3.266 min Scan# 599
Delta R.T. 0.061 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 59 Resp: 176426

Ion	Ratio	Lower	Upper
59	100		
57	2.8	8.3	12.5#

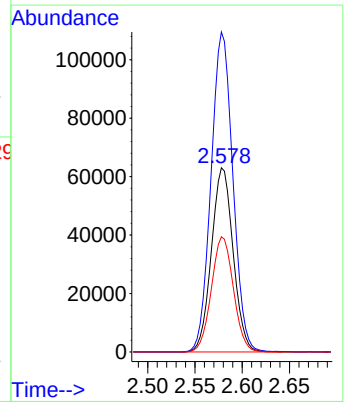




#12
1,1-Dichloroethene
Concen: 53.268 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 96 Resp: 100839

Ion	Ratio	Lower	Upper
96	100		
61	173.7	145.4	218.0
98	62.5	50.9	76.3



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ClientSampleId :
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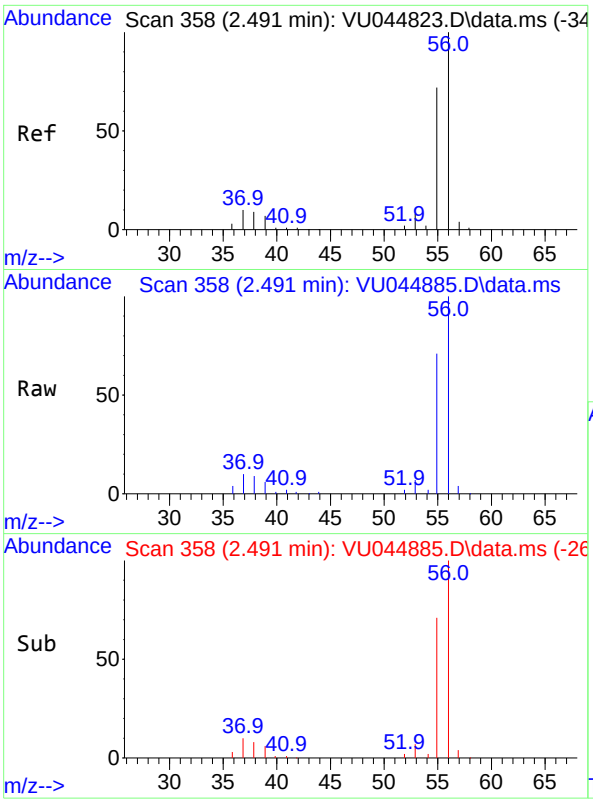
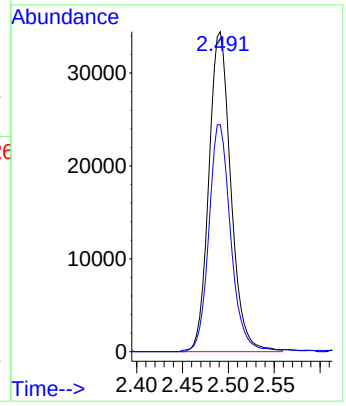
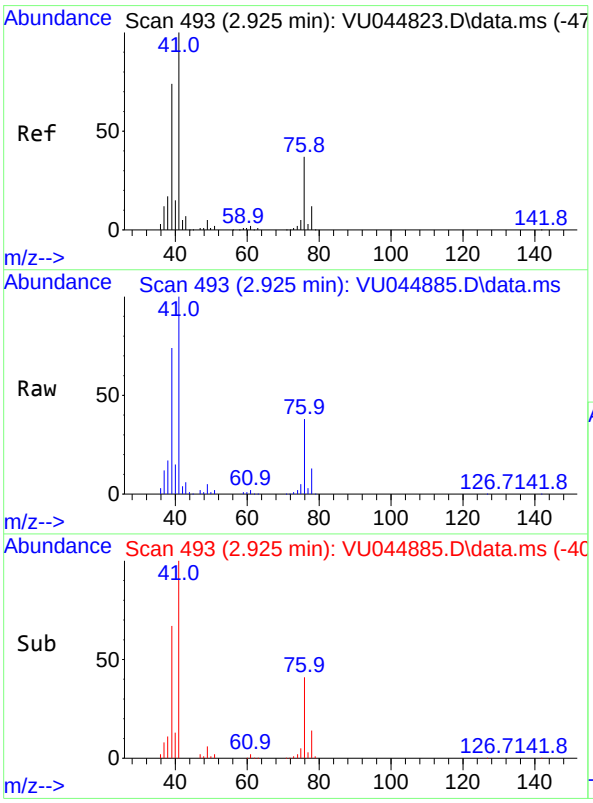


#13
Acrolein
Concen: 265.412 ug/l
RT: 2.491 min Scan# 358
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 56 Resp: 57406

Ion	Ratio	Lower	Upper
56	100		
55	70.5	57.4	86.0

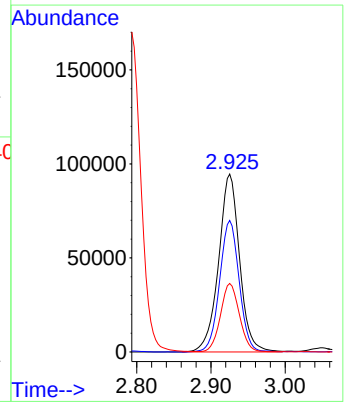




#14
Allyl chloride
Concen: 50.660 ug/l
RT: 2.925 min Scan# 493
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 41 Resp: 186145

Ion	Ratio	Lower	Upper
41	100		
39	68.8	53.0	79.6
76	34.3	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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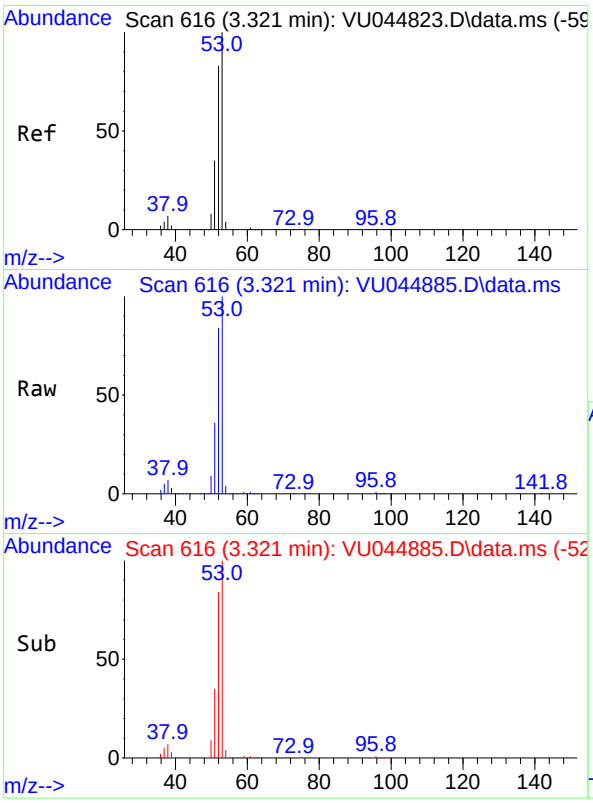
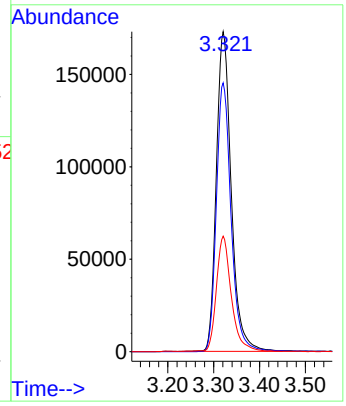
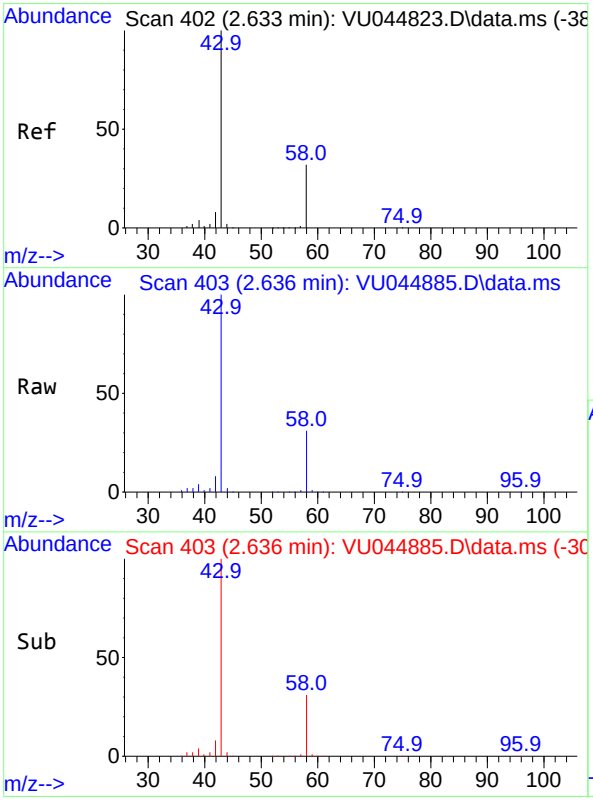


#15
Acrylonitrile
Concen: 233.653 ug/l
RT: 3.321 min Scan# 616
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 53 Resp: 390903

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.0	99.0
51	35.7	28.6	42.8

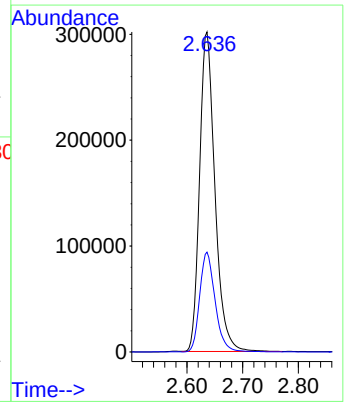




#16
Acetone
Concen: 372.409 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 576425

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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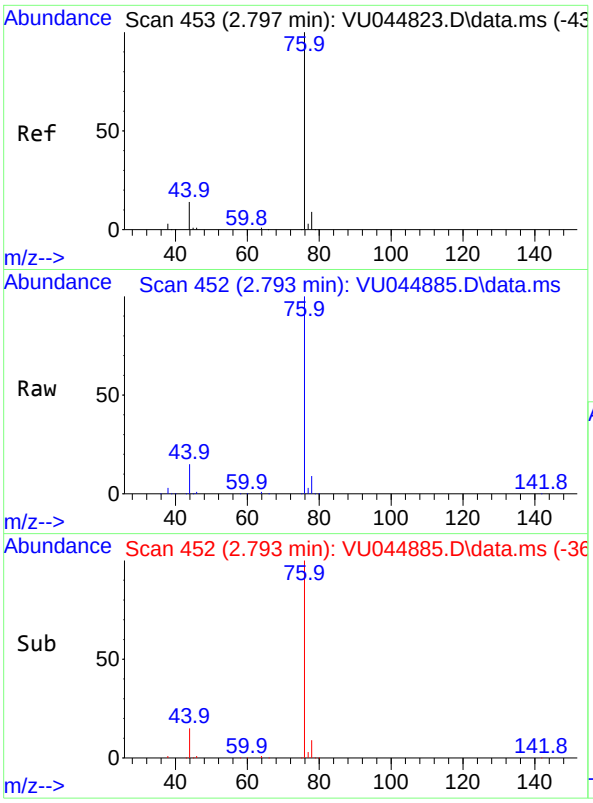
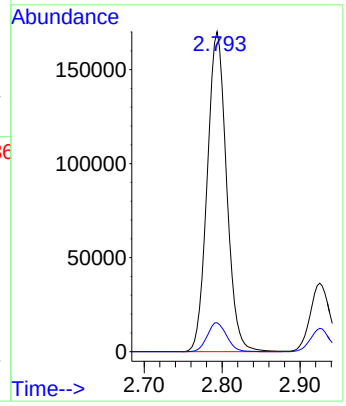
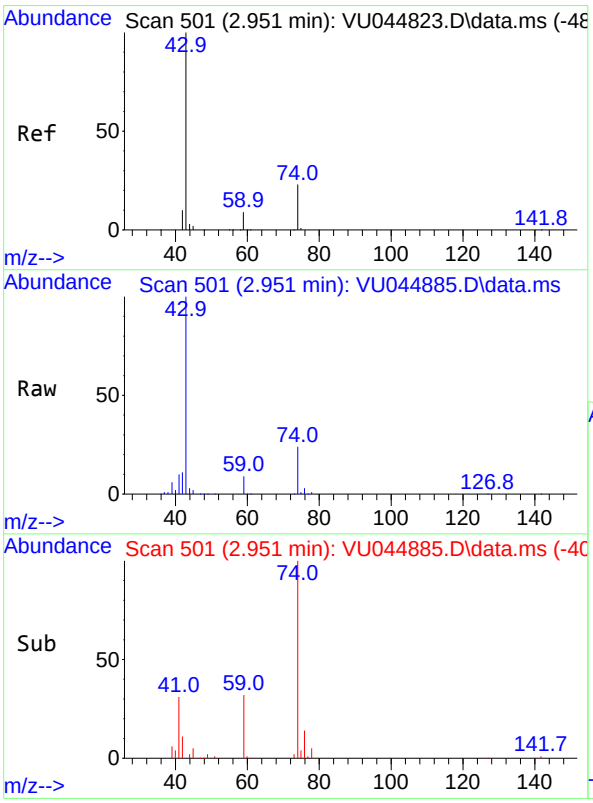


#17
Carbon Disulfide
Concen: 54.959 ug/l
RT: 2.793 min Scan# 452
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 76 Resp: 292683

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

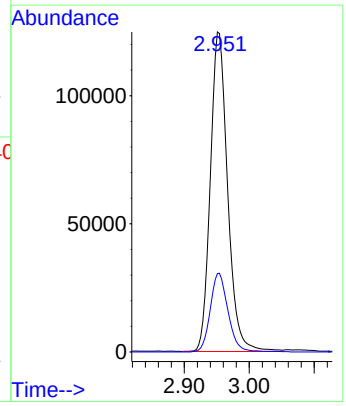




#18
Methyl Acetate
Concen: 44.593 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 230591

Ion	Ratio	Lower	Upper
43	100		
74	25.3	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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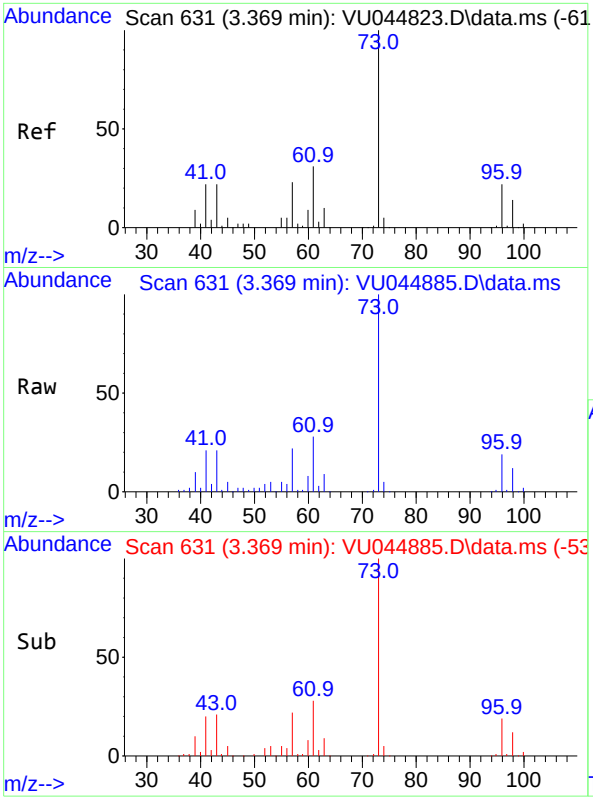
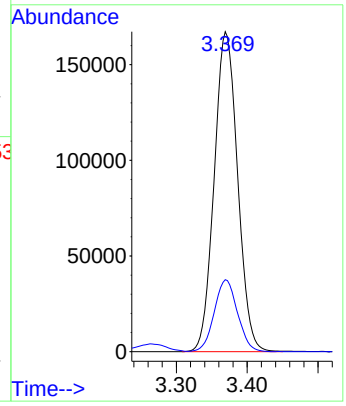
9/28/2021 7:04:46 PM

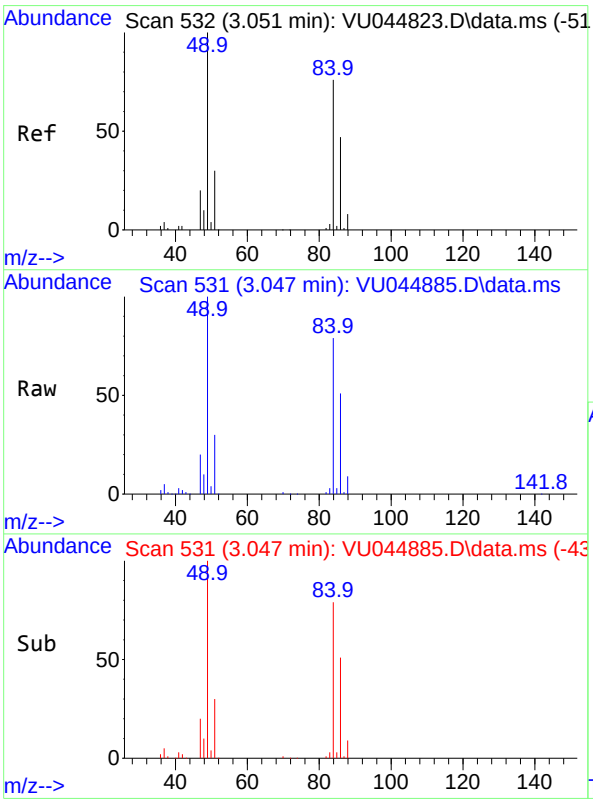


#19
Methyl tert-butyl Ether
Concen: 54.279 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 73 Resp: 383700

Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.2	27.2

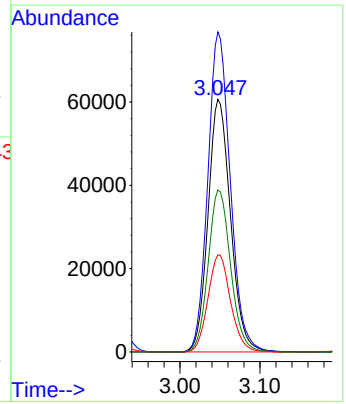




#20
Methylene Chloride
Concen: 47.375 ug/l
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 84 Resp: 118702

Ion	Ratio	Lower	Upper
84	100		
49	126.7	104.9	157.3
51	38.4	31.8	47.8
86	64.1	49.8	74.6



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MSVOA_U
ClientSampleId :
VSTDCCC050

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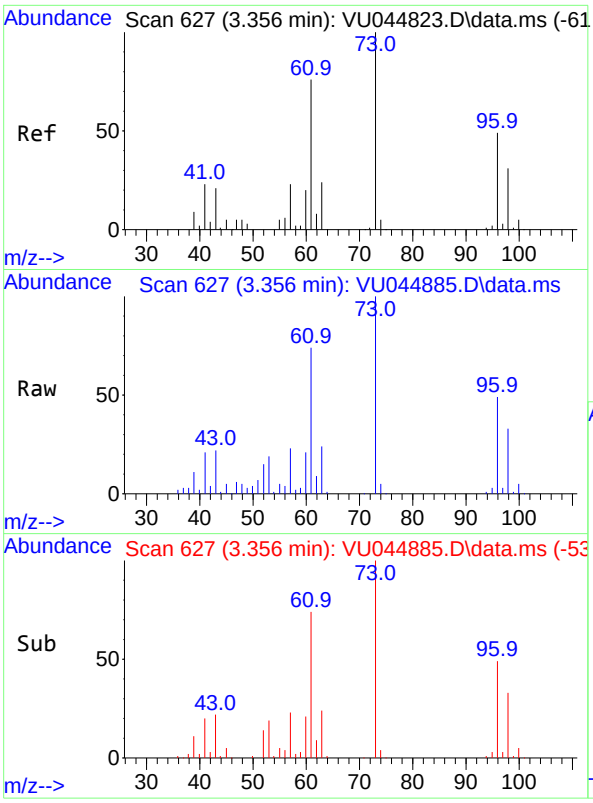
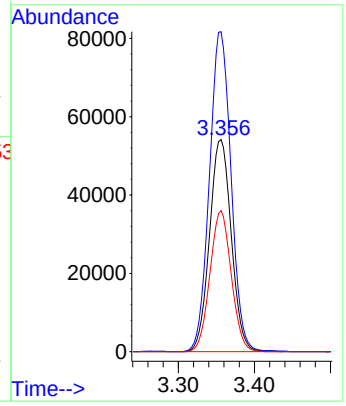
9/28/2021 7:04:46 PM

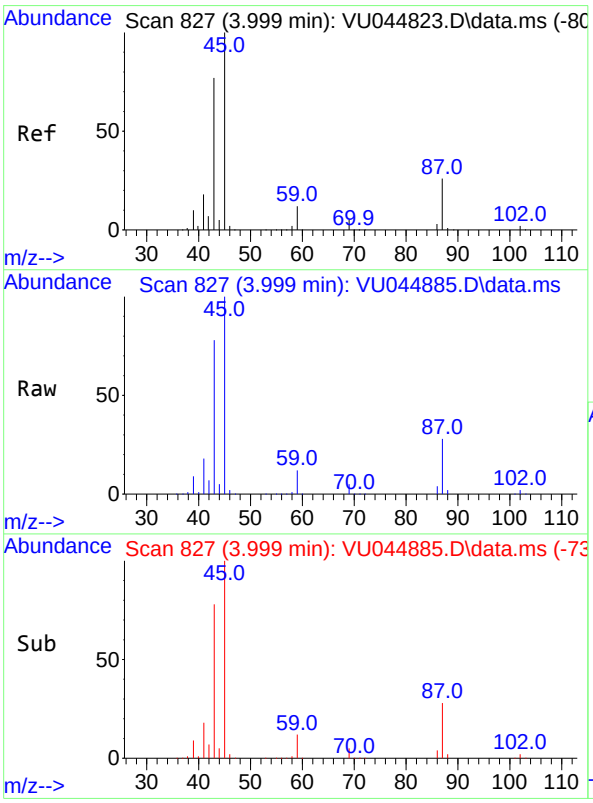


#21
trans-1,2-Dichloroethene
Concen: 53.231 ug/l
RT: 3.356 min Scan# 627
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 96 Resp: 107893

Ion	Ratio	Lower	Upper
96	100		
61	150.8	123.2	184.8
98	66.5	51.0	76.6

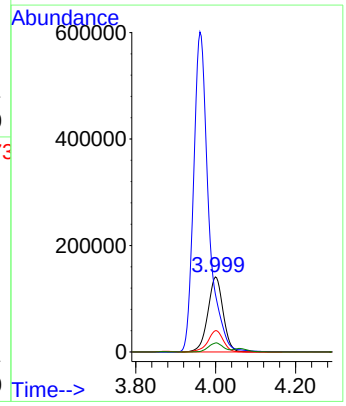




#22
Diisopropyl ether
Concen: 51.537 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 45 Resp: 374154

Ion	Ratio	Lower	Upper
45	100		
43	77.3	62.3	93.5
87	28.5	21.0	31.4
59	11.9	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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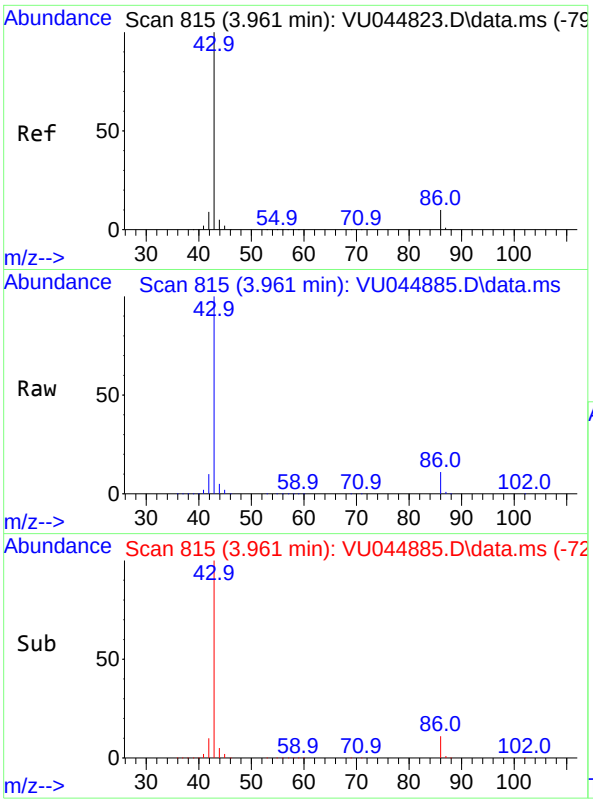
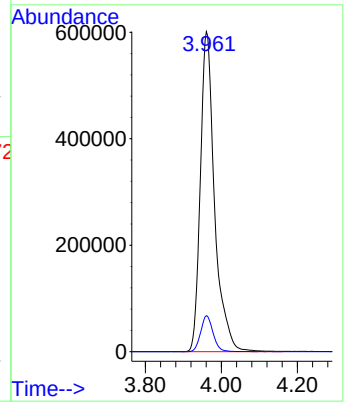
9/28/2021 7:04:46 PM

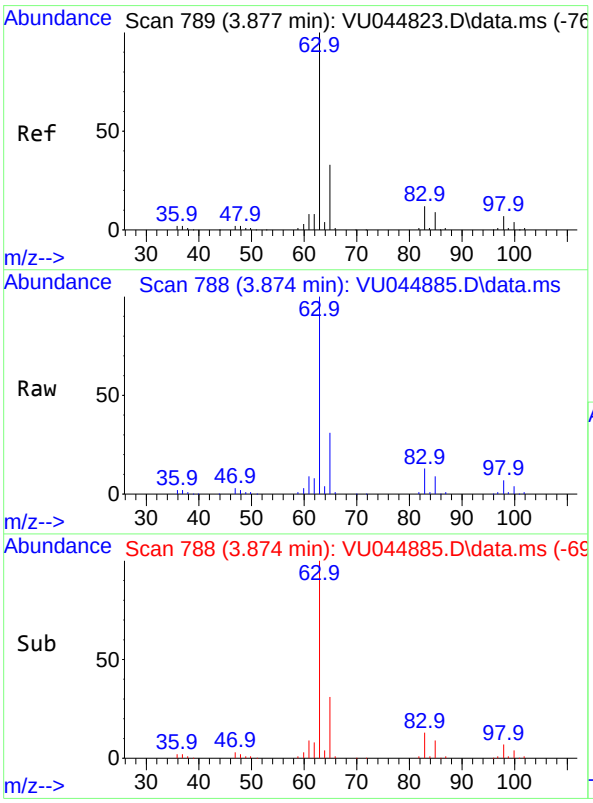


#23
Vinyl Acetate
Concen: 262.262 ug/l
RT: 3.961 min Scan# 815
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 1561398

Ion	Ratio	Lower	Upper
43	100		
86	11.3	8.2	12.4

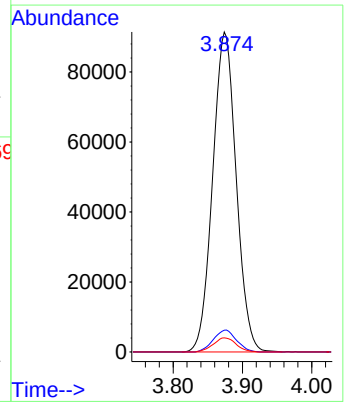




#24
1,1-Dichloroethane
Concen: 51.150 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 63 Resp: 215541

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.4
100	4.4	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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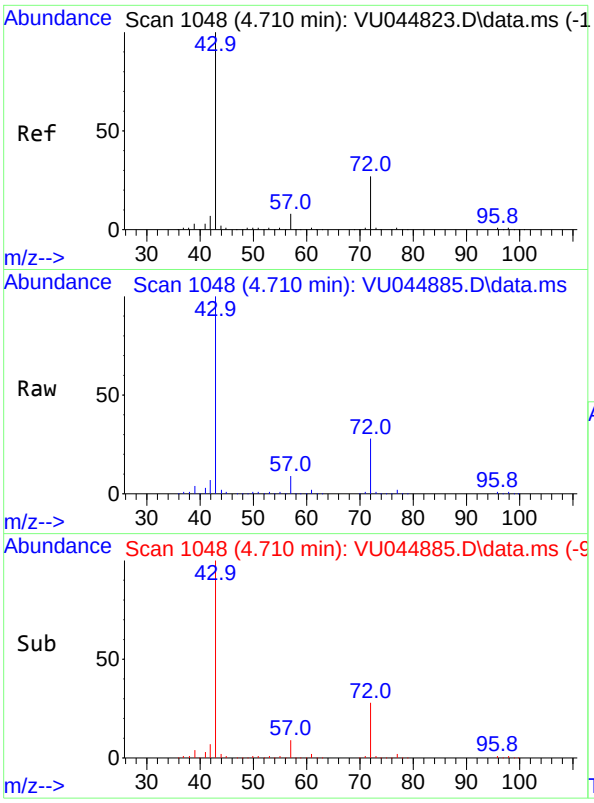
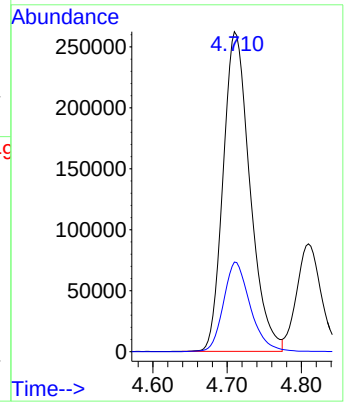
9/28/2021 7:04:46 PM

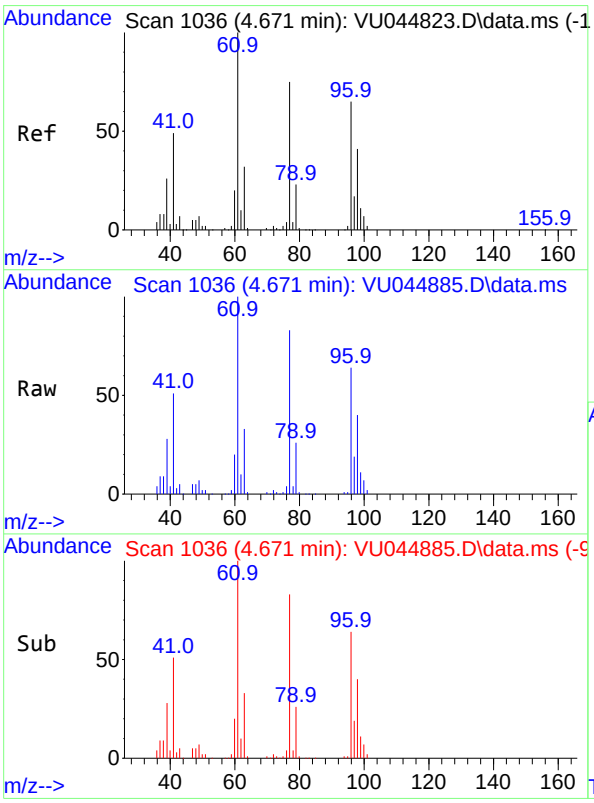


#25
2-Butanone
Concen: 280.393 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 658511

Ion	Ratio	Lower	Upper
43	100		
72	28.0	21.3	31.9

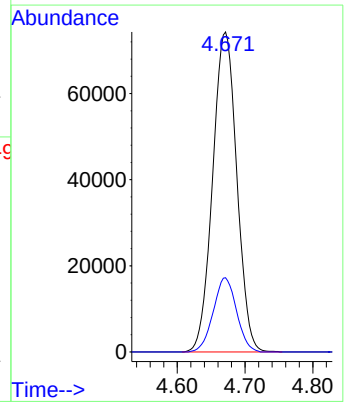




#26
2,2-Dichloropropane
Concen: 58.182 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 77 Resp: 183863

Ion	Ratio	Lower	Upper
77	100		
97	22.4	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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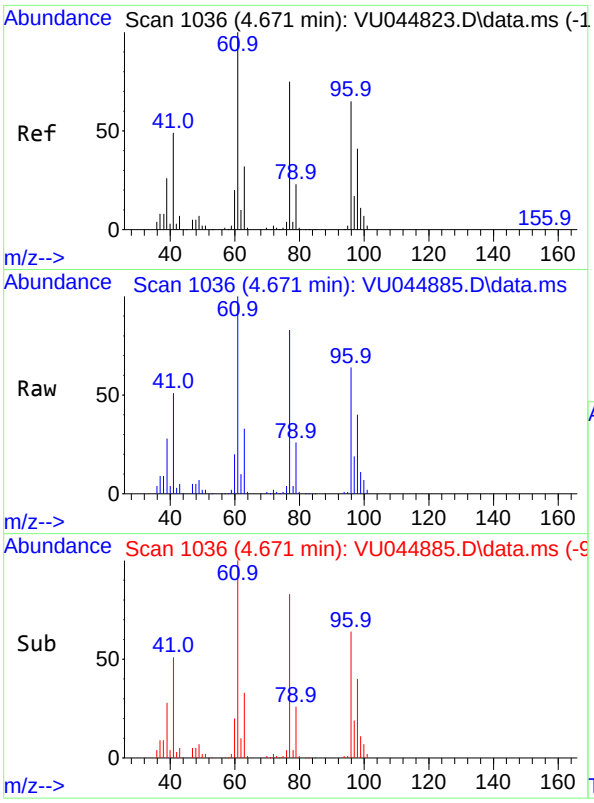
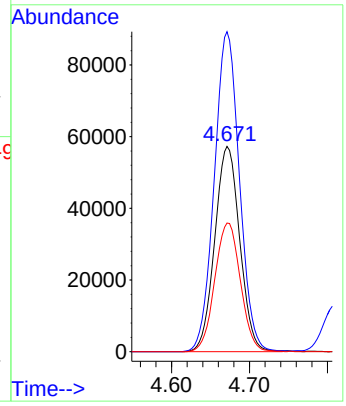
9/28/2021 7:04:46 PM

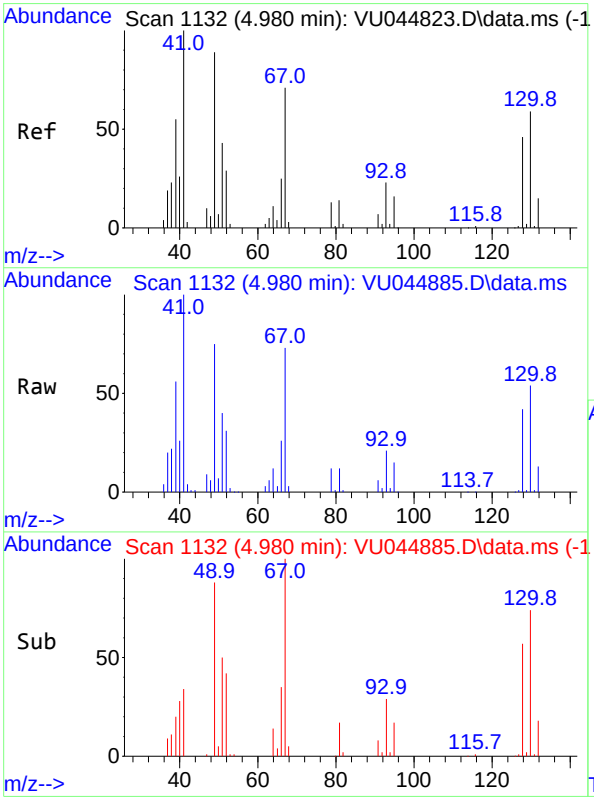


#27
cis-1,2-Dichloroethene
Concen: 51.813 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 96 Resp: 127726

Ion	Ratio	Lower	Upper
96	100		
61	156.8	0.0	313.4
98	64.3	0.0	127.0

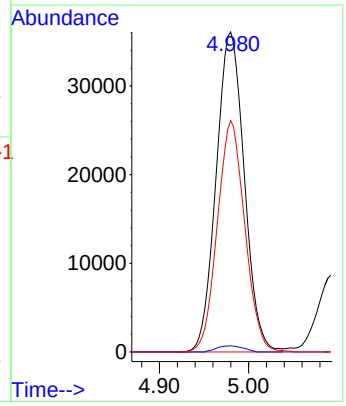




#28
Bromochloromethane
Concen: 39.518 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 49 Resp: 79134

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	70.6	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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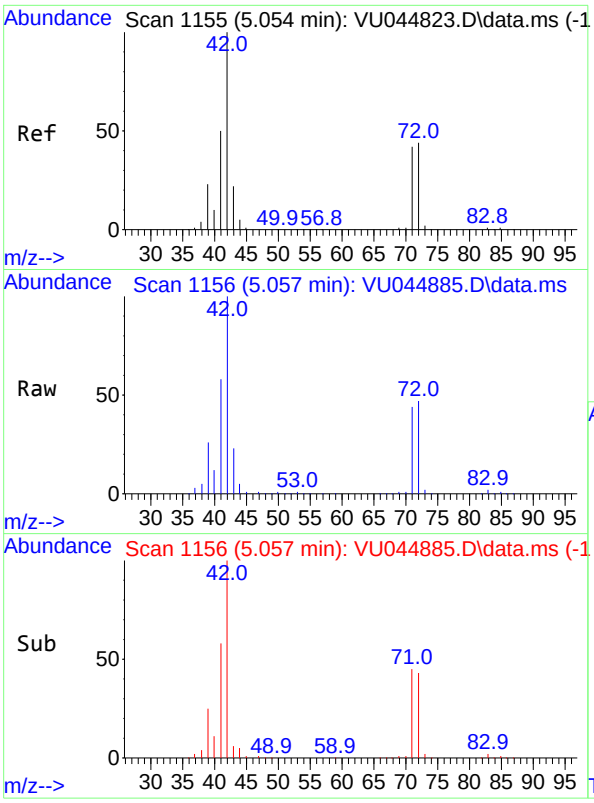
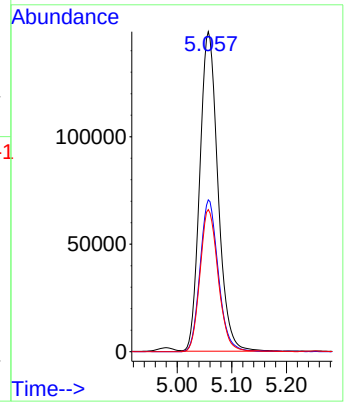
9/28/2021 7:04:46 PM

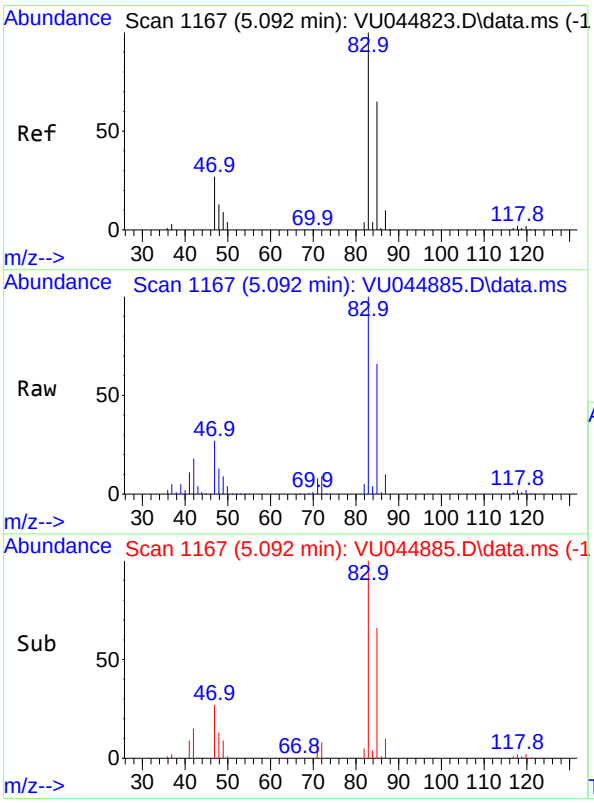


#29
Tetrahydrofuran
Concen: 231.374 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 42 Resp: 341857

Ion	Ratio	Lower	Upper
42	100		
72	47.9	36.2	54.4
71	44.4	34.1	51.1

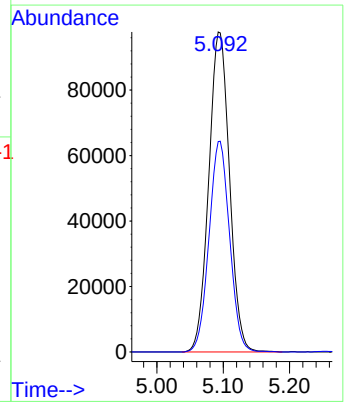




#30
Chloroform
Concen: 50.077 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 83 Resp: 212180

Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.1	78.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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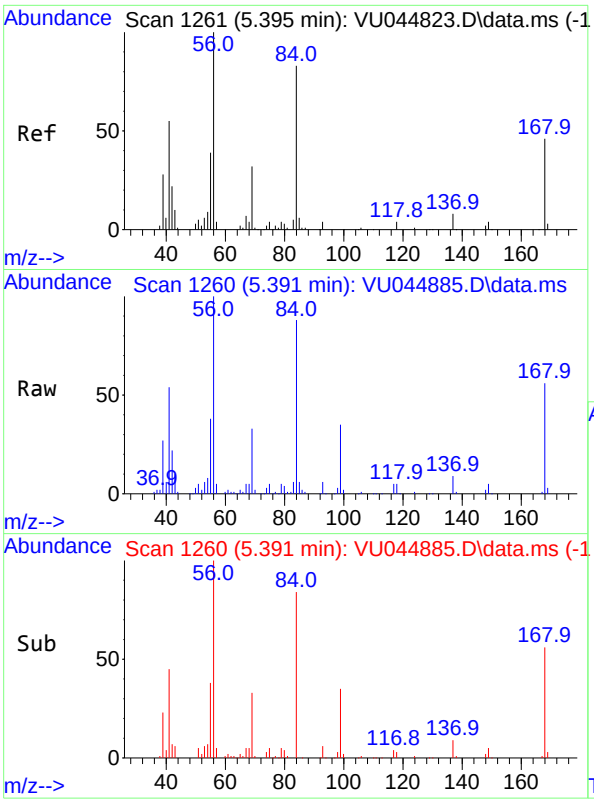
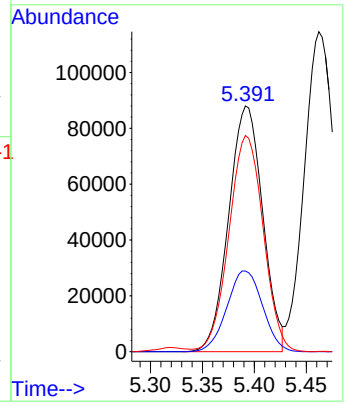
9/28/2021 7:04:46 PM

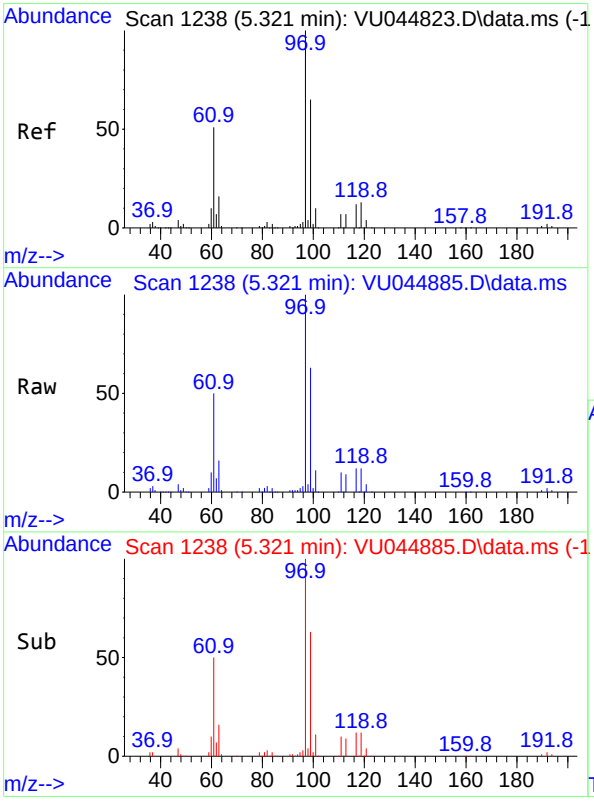


#31
Cyclohexane
Concen: 50.914 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 56 Resp: 200581

Ion	Ratio	Lower	Upper
56	100		
69	32.8	25.2	37.8
84	86.7	66.4	99.6

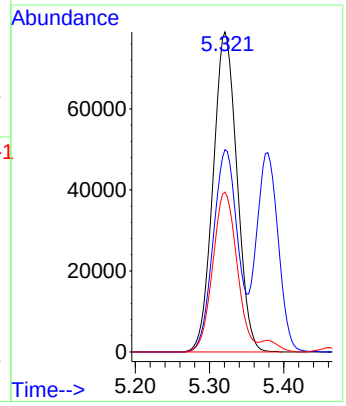




#32
1,1,1-Trichloroethane
Concen: 51.522 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 97 Resp: 176383

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.9	76.3
61	51.0	40.7	61.1



Instrument :
MSVOA_U
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VSTDCCC050

Manual Integrations APPROVED
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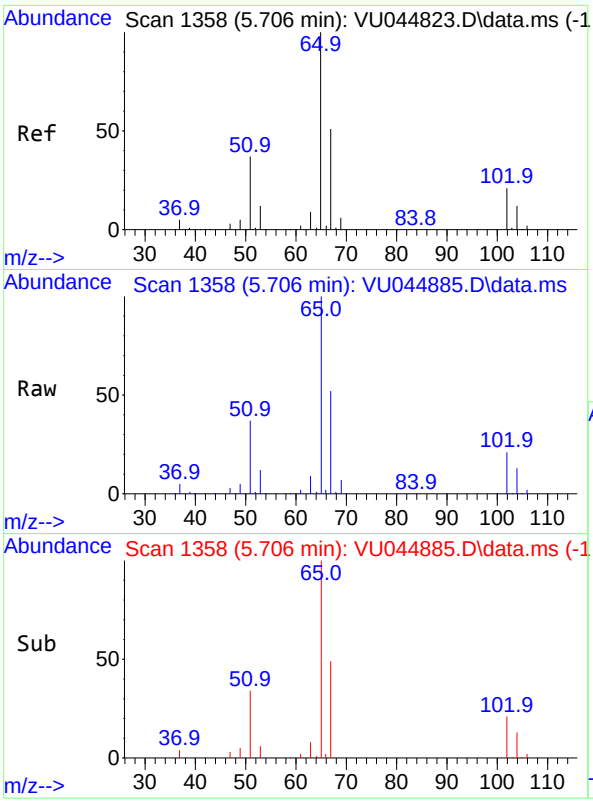
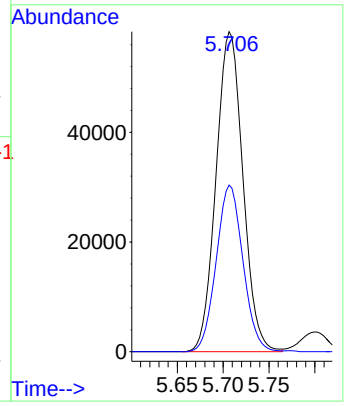
9/28/2021 7:04:46 PM

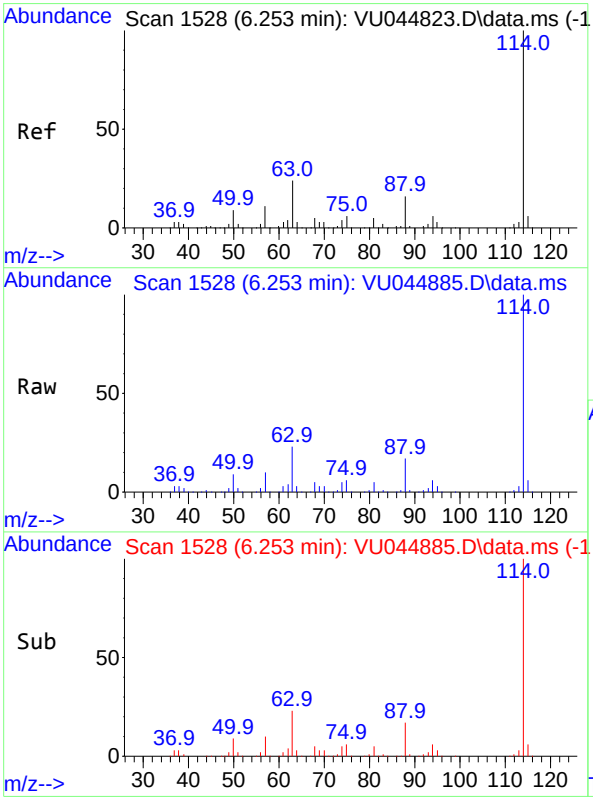


#33
1,2-Dichloroethane-d4
Concen: 43.323 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 65 Resp: 118880

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.8

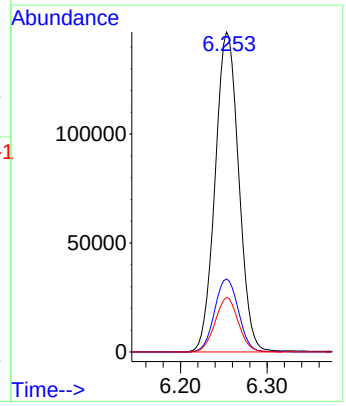




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:114 Resp: 277592

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	47.8
88	17.0	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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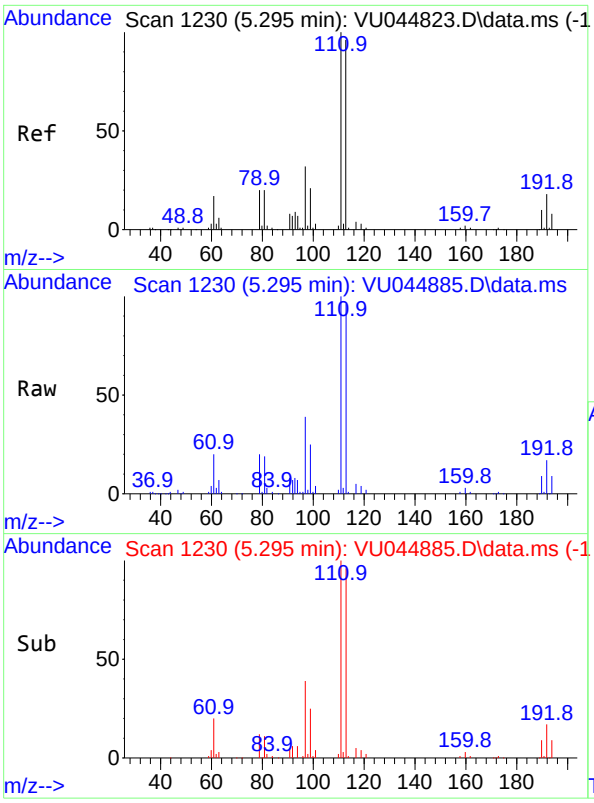
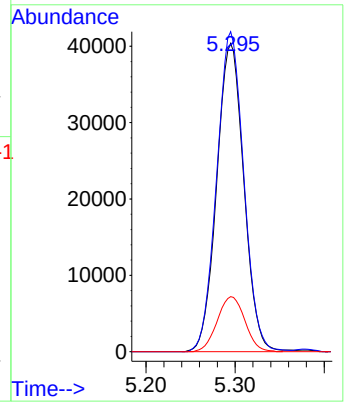
9/28/2021 7:04:46 PM

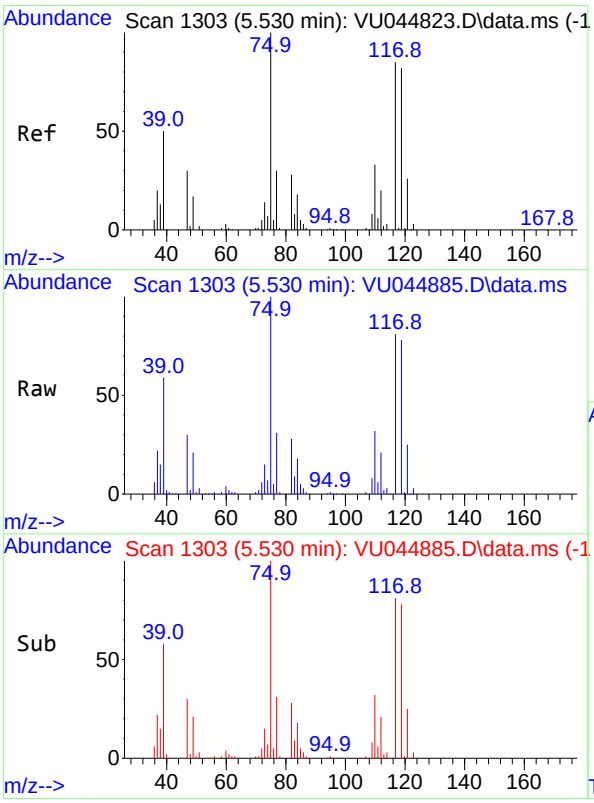


#35
Dibromofluoromethane
Concen: 44.764 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:113 Resp: 85246

Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.1	126.1
192	18.2	14.8	22.2

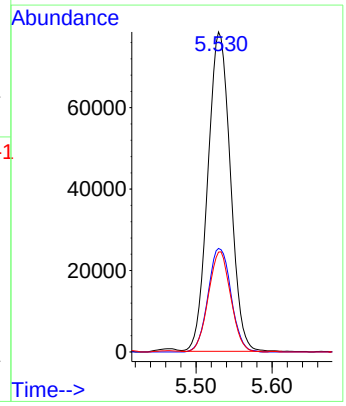




#36
1,1-Dichloropropene
Concen: 54.738 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 75 Resp: 161219

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.3	48.9
77	31.2	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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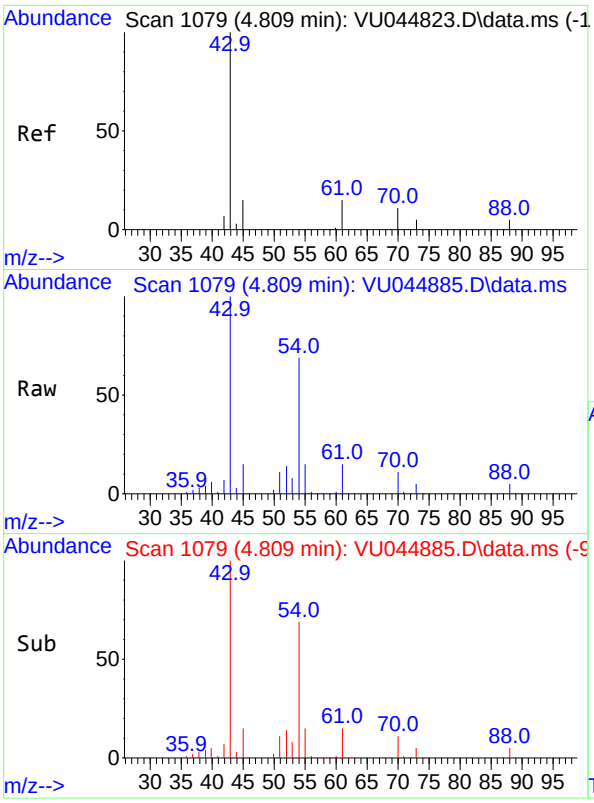
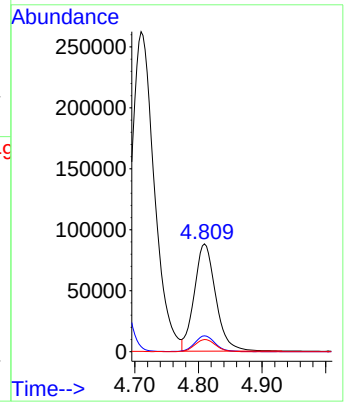
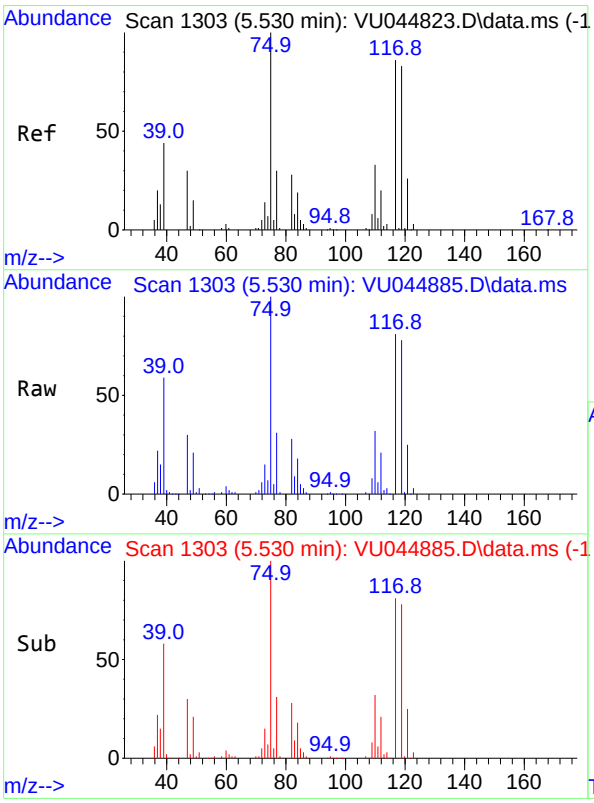


#37
Ethyl Acetate
Concen: 47.721 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 206233

Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.9	16.3
70	11.0	8.2	12.4

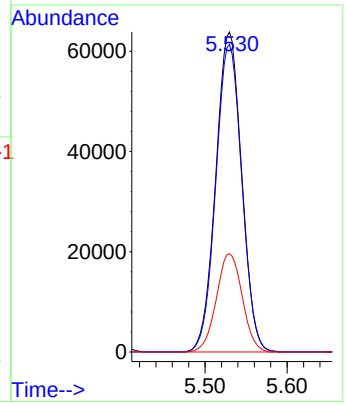




#38
Carbon Tetrachloride
Concen: 53.213 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:117 Resp: 140117

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.4	116.2
121	30.7	24.5	36.7



Instrument :
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ClientSampleId :
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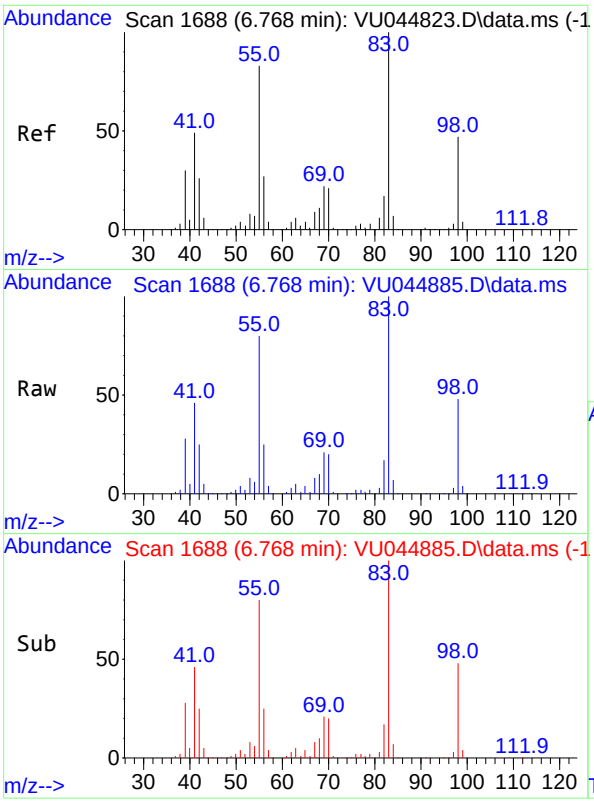
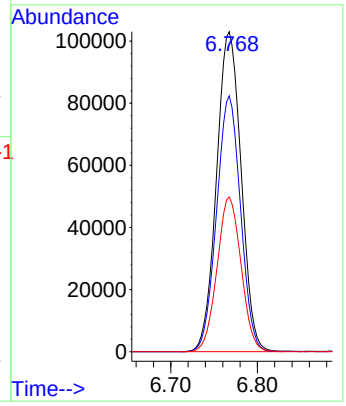
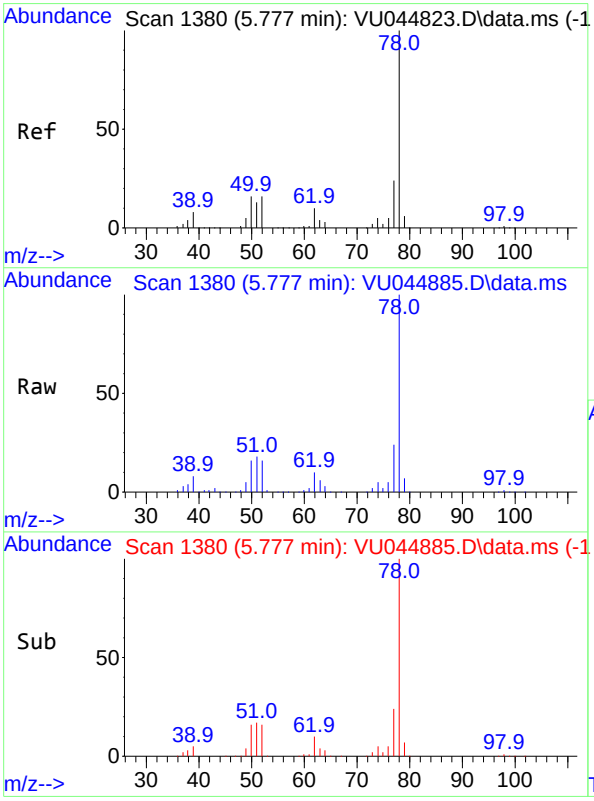


#39
Methylcyclohexane
Concen: 61.030 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 83 Resp: 203301

Ion	Ratio	Lower	Upper
83	100		
55	80.0	66.2	99.4
98	48.4	37.5	56.3

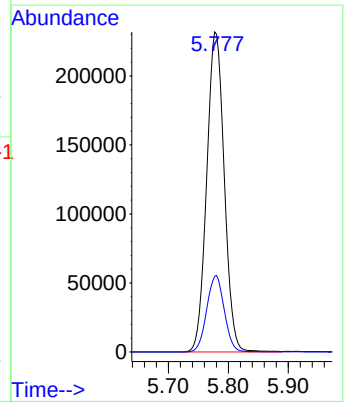




#40
Benzene
Concen: 52.631 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 78 Resp: 472611

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.1	28.7



Instrument :
MSVOA_U
ClientSampleId :
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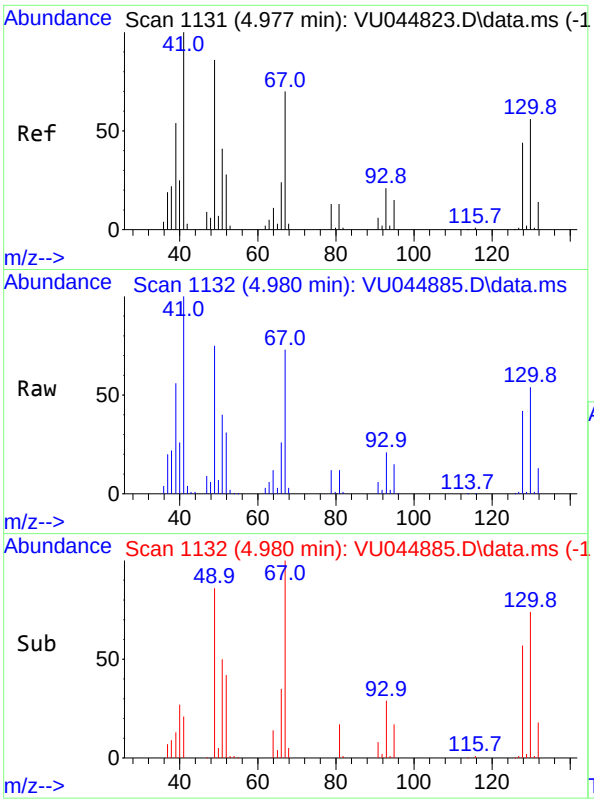
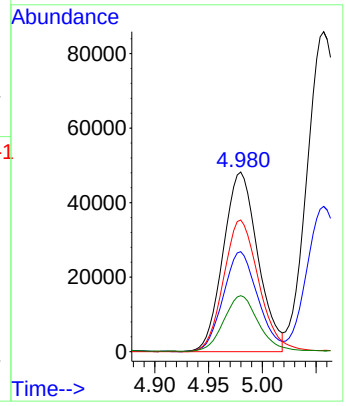
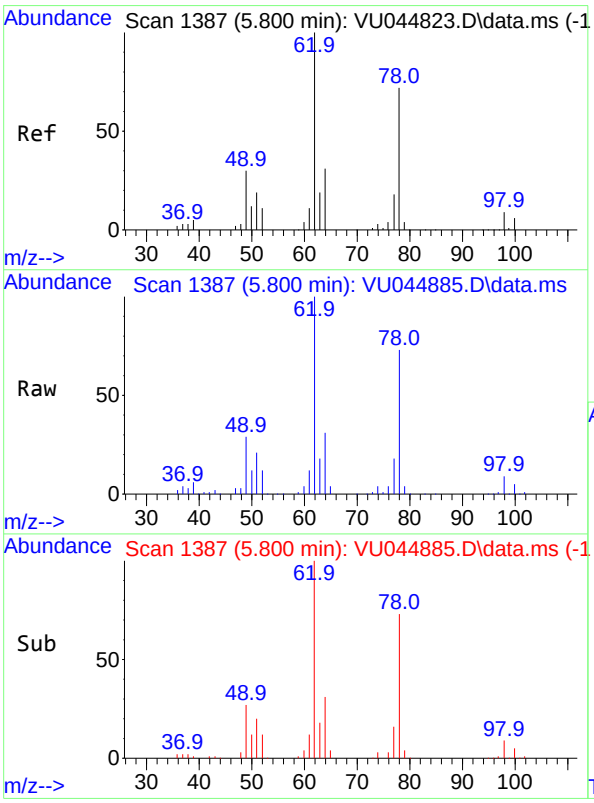


#41
Methacrylonitrile
Concen: 50.247 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 41 Resp: 108391

Ion	Ratio	Lower	Upper
41	100		
39	55.7	44.4	66.6
67	74.7	58.1	87.1
52	30.8	23.8	35.8

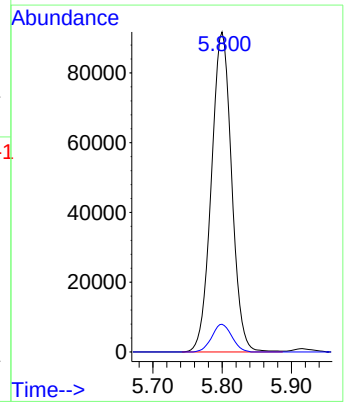




#42
1,2-Dichloroethane
Concen: 52.765 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 62 Resp: 186406

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
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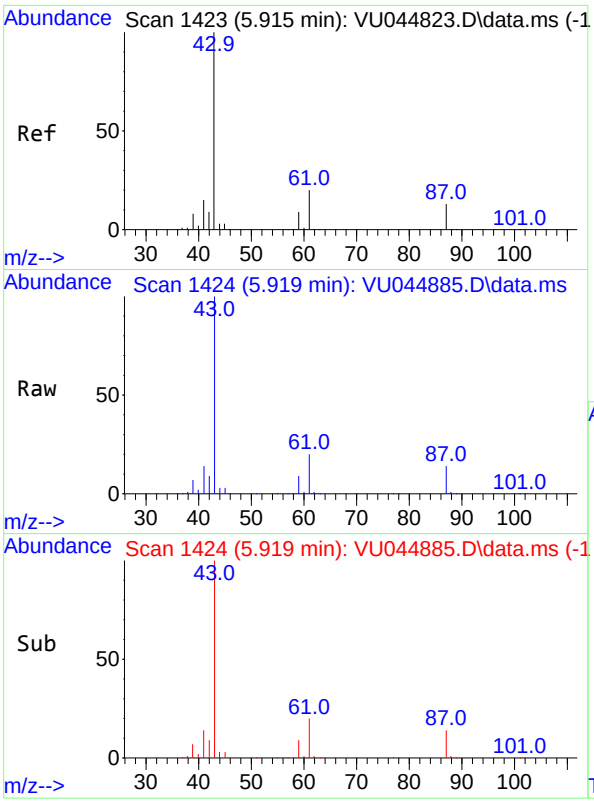
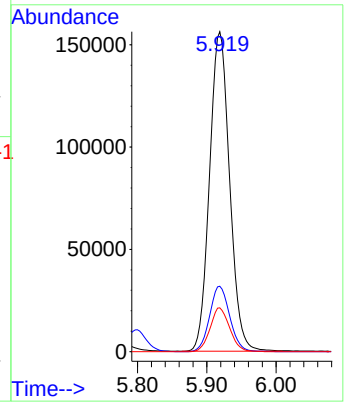
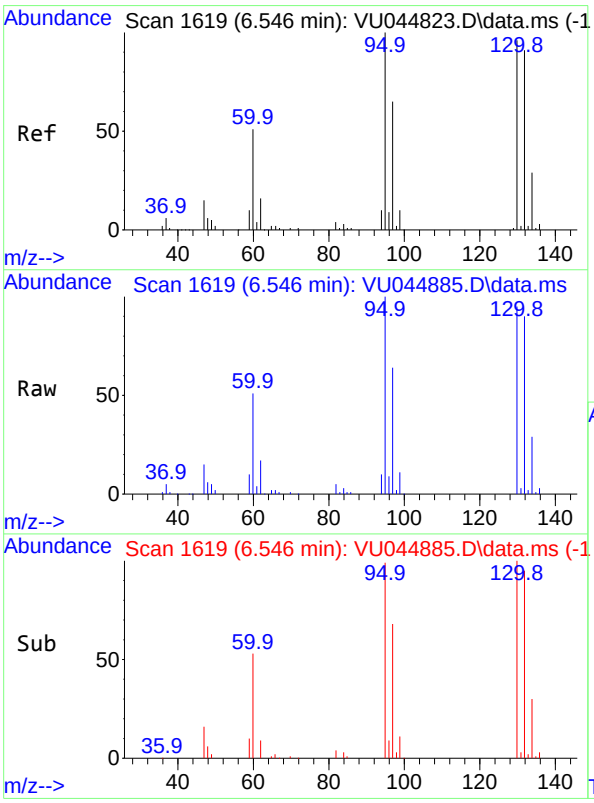


#43
Isopropyl Acetate
Concen: 51.858 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 313539

Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.1	24.1
87	13.4	10.3	15.5

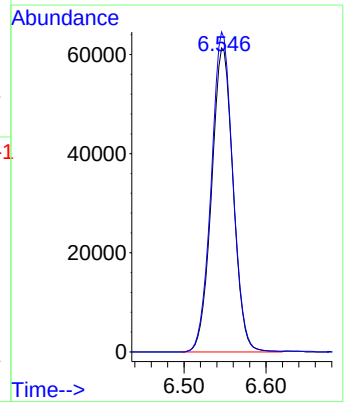




#44
Trichloroethene
Concen: 51.773 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:130 Resp: 111735

Ion	Ratio	Lower	Upper
130	100		
95	105.3	0.0	209.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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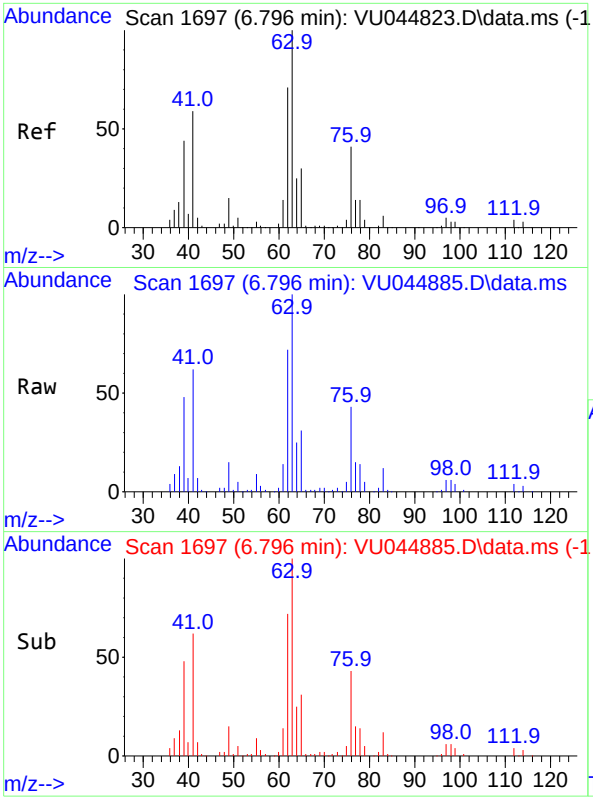
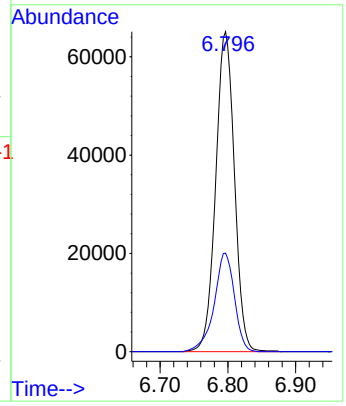
9/28/2021 7:04:46 PM

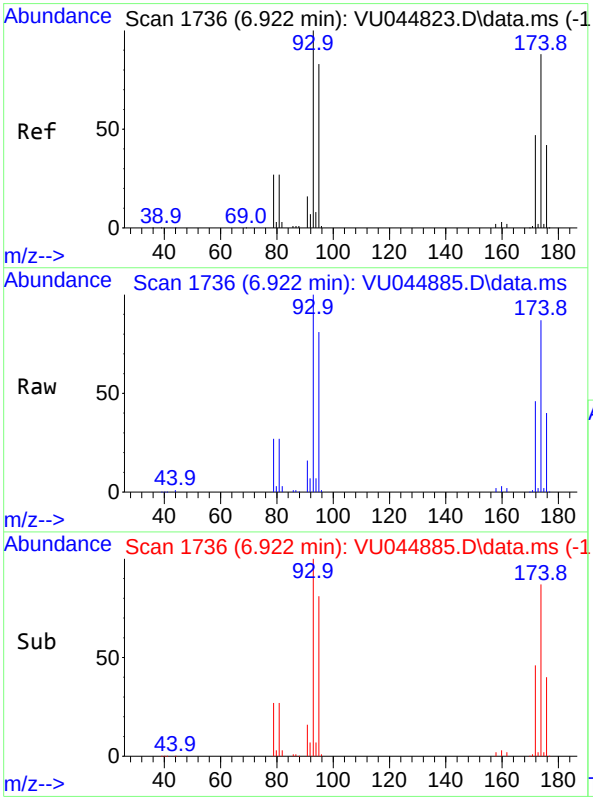


#45
1,2-Dichloropropane
Concen: 51.456 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 63 Resp: 125052

Ion	Ratio	Lower	Upper
63	100		
65	30.8	23.9	35.9

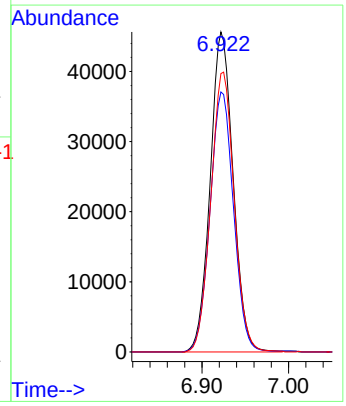




#46
Dibromomethane
Concen: 52.194 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 93 Resp: 84051

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.6	98.4
174	89.1	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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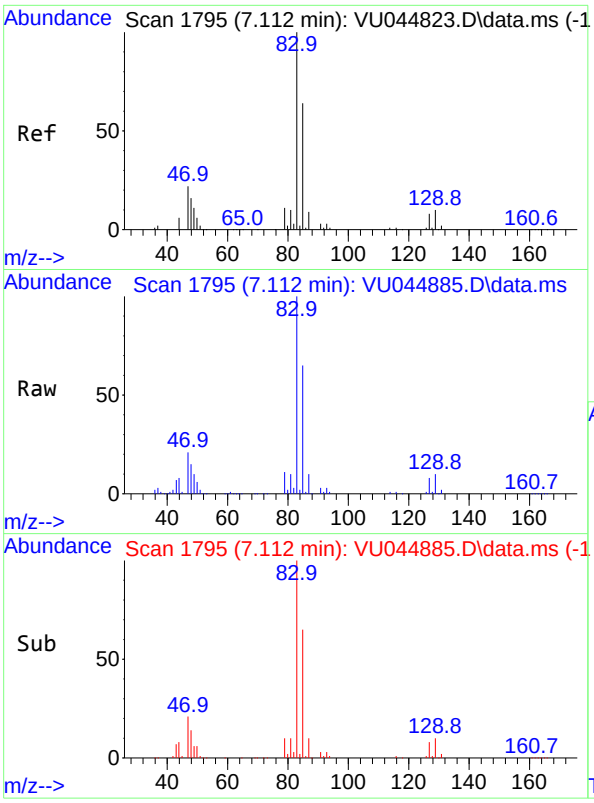
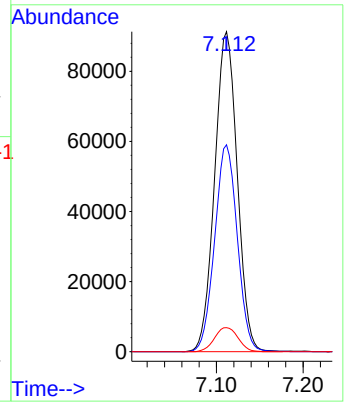
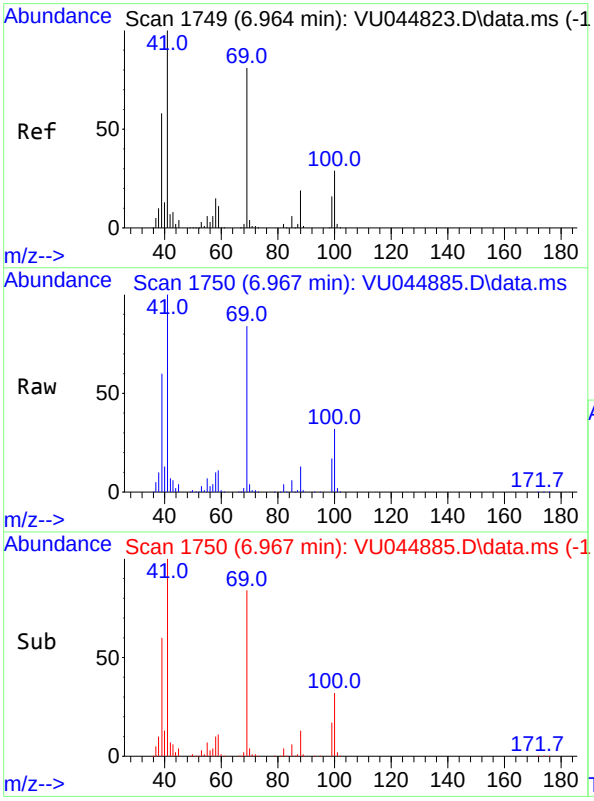


#47
Bromodichloromethane
Concen: 52.141 ug/l
RT: 7.112 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 83 Resp: 165626

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.6	77.4
127	7.5	6.2	9.4

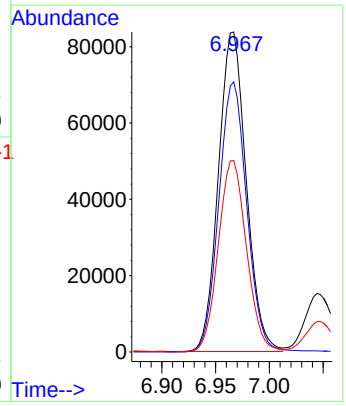




#48
Methyl methacrylate
Concen: 52.747 ug/l
RT: 6.967 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 41 Resp: 150527

Ion	Ratio	Lower	Upper
41	100		
69	85.6	65.6	98.4
39	61.0	46.2	69.4



Instrument :
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ClientSampleId :
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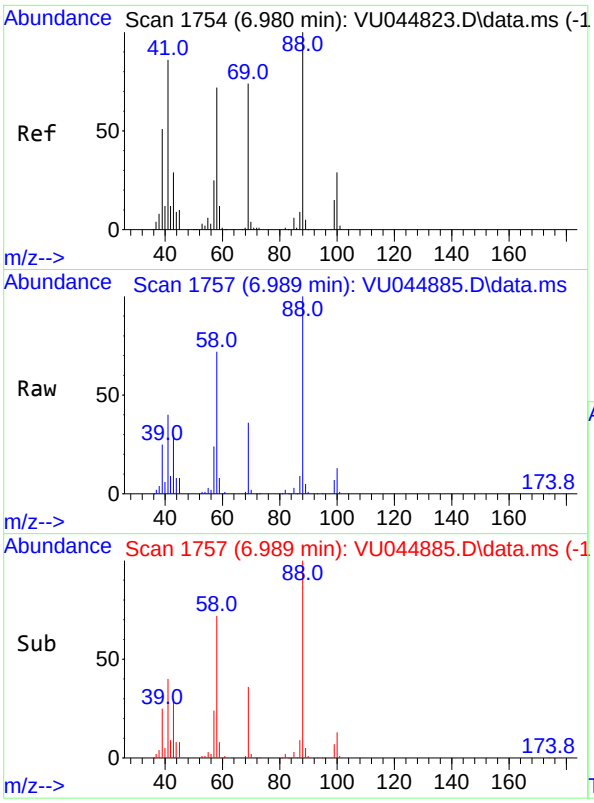
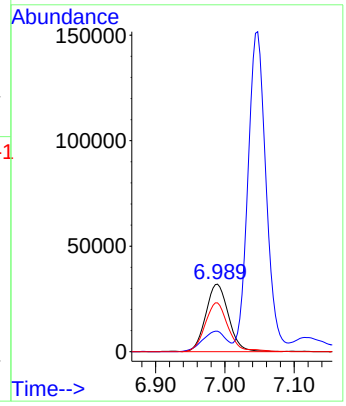
9/28/2021 7:04:46 PM

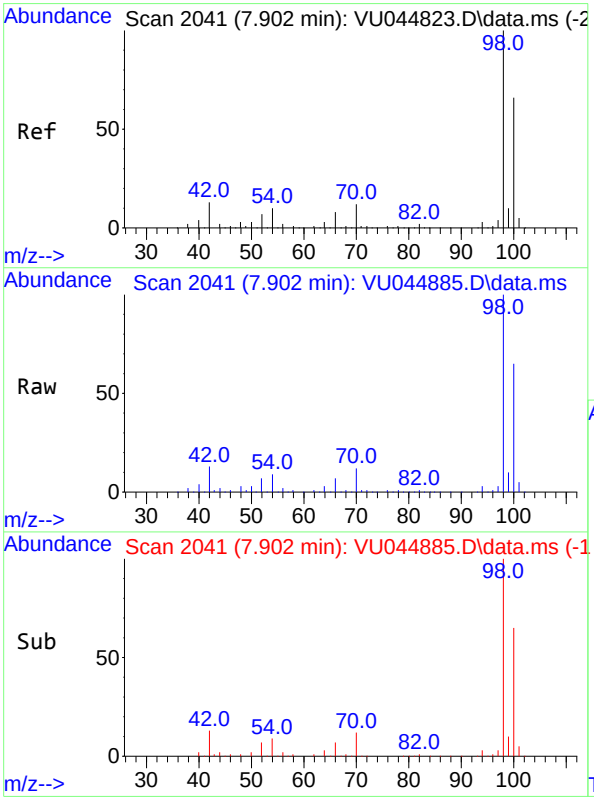


#49
1,4-Dioxane
Concen: 1000.252 ug/l
RT: 6.989 min Scan# 1757
Delta R.T. 0.010 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 88 Resp: 72953

Ion	Ratio	Lower	Upper
88	100		
43	31.2	25.8	38.6
58	74.0	61.3	91.9

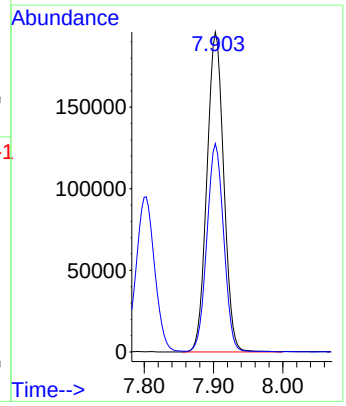




#50
Toluene-d8
Concen: 45.941 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 98 Resp: 330414

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.5	78.7



Instrument :
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ClientSampleId :
VSTDCCC050

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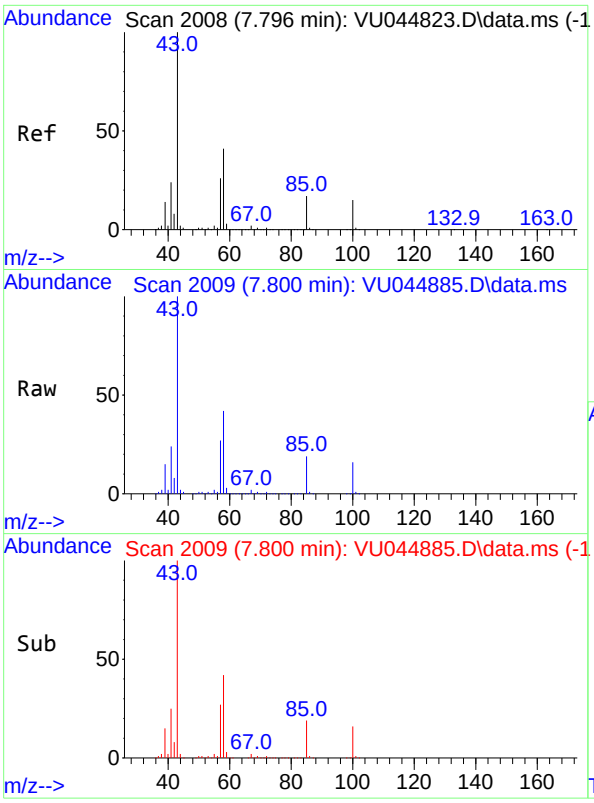
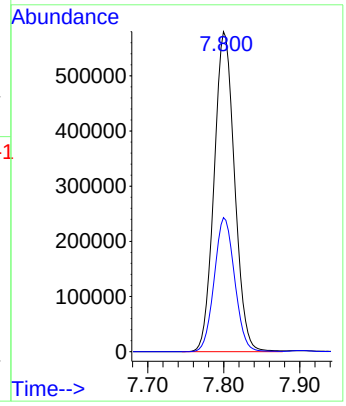
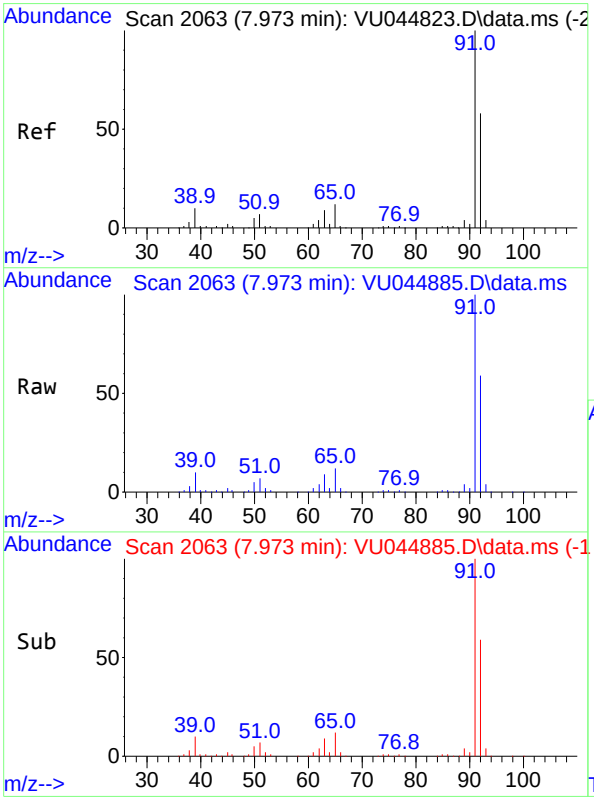


#51
4-Methyl-2-Pentanone
Concen: 251.658 ug/l
RT: 7.800 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 1084414

Ion	Ratio	Lower	Upper
43	100		
58	41.8	32.4	48.6

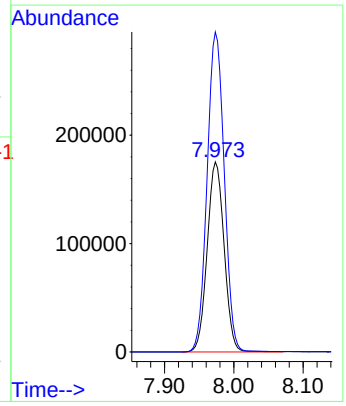




#52
Toluene
Concen: 55.224 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 92 Resp: 296481

Ion	Ratio	Lower	Upper
92	100		
91	170.7	136.9	205.3



Instrument :
MSVOA_U
ClientSampleId :
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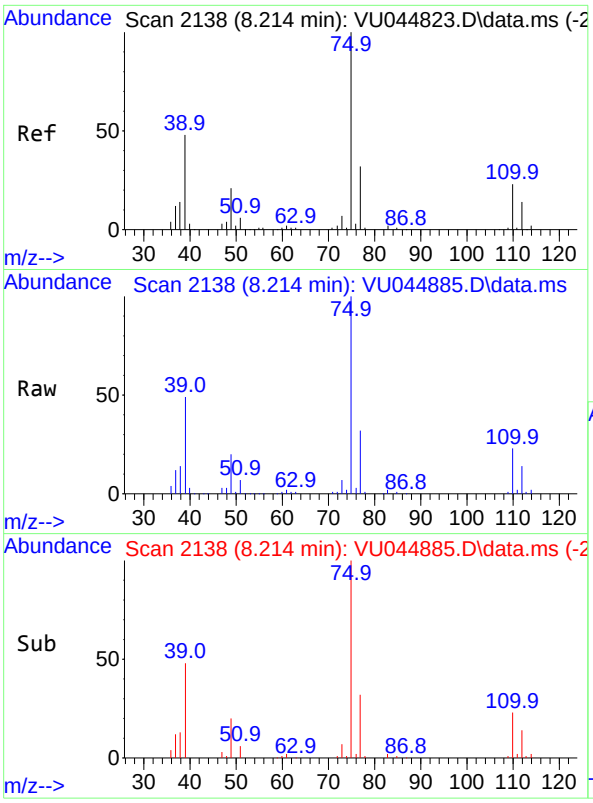
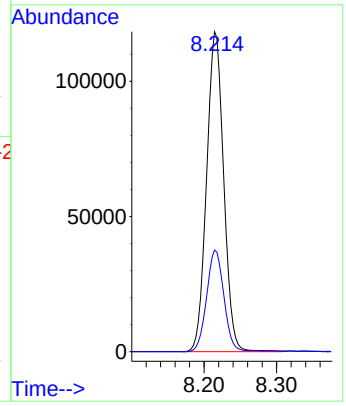
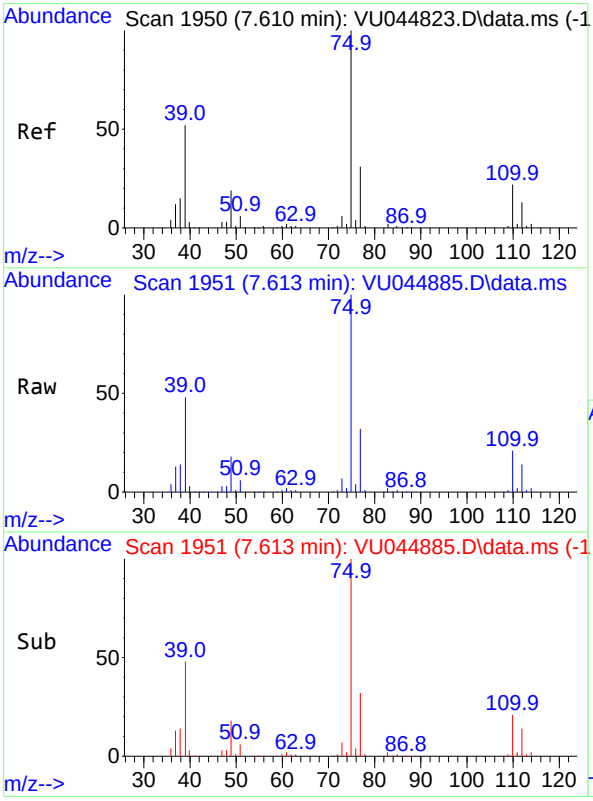


#53
t-1,3-Dichloropropene
Concen: 58.554 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 75 Resp: 193778

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4

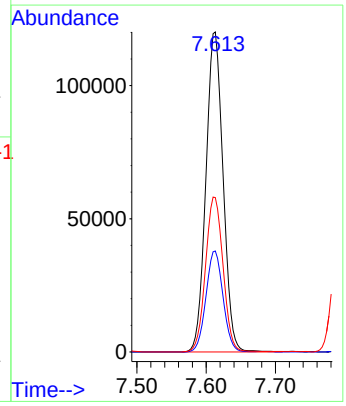




#54
cis-1,3-Dichloropropene
Concen: 57.619 ug/l
RT: 7.613 min Scan# 1951
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 75 Resp: 206502

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.0	37.6
39	48.2	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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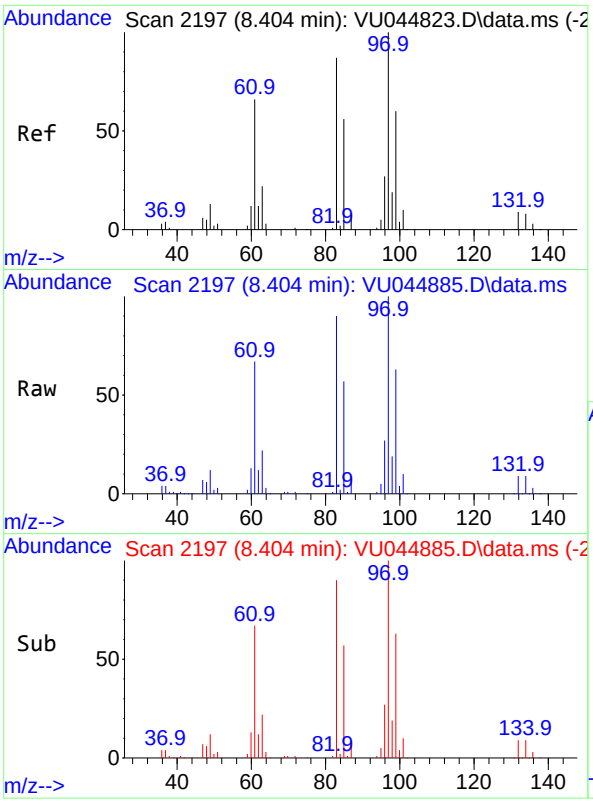
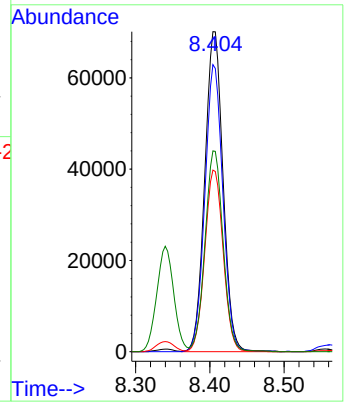
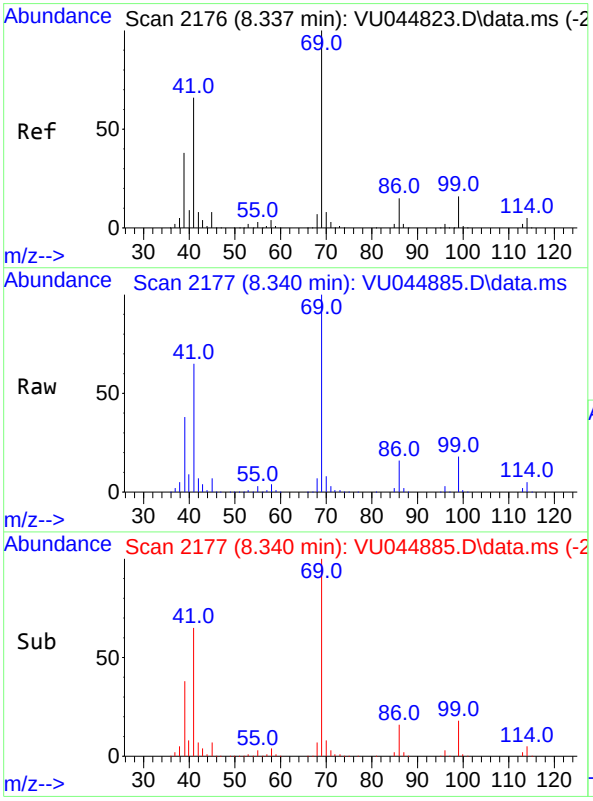


#55
1,1,2-Trichloroethane
Concen: 52.056 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 97 Resp: 119487

Ion	Ratio	Lower	Upper
97	100		
83	89.7	69.7	104.5
85	56.7	44.8	67.2
99	62.7	49.3	73.9

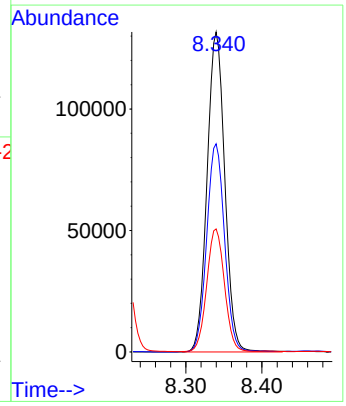




#56
Ethyl methacrylate
Concen: 52.036 ug/l
RT: 8.340 min Scan# 2177
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 69 Resp: 213084

Ion	Ratio	Lower	Upper
69	100		
41	66.0	53.5	80.3
39	38.4	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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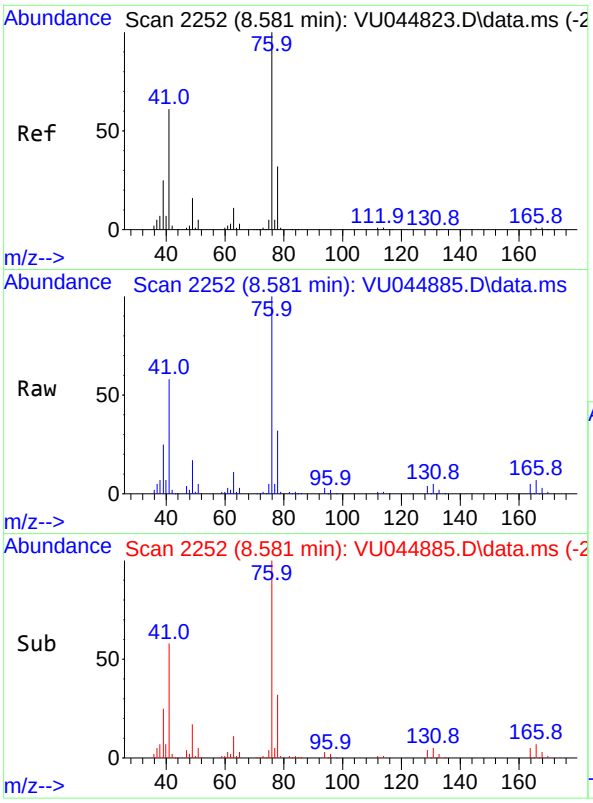
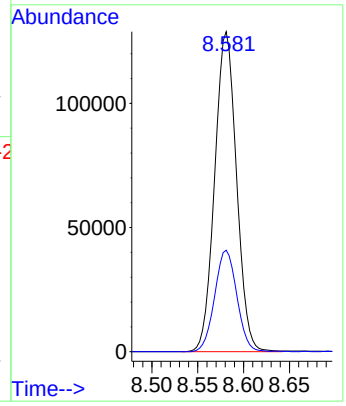
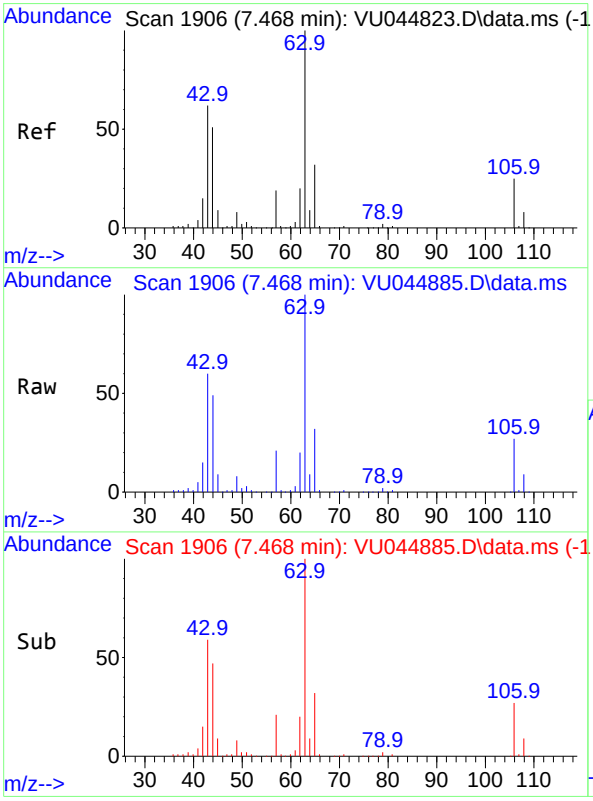


#57
1,3-Dichloropropane
Concen: 52.191 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 76 Resp: 213318

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.7	38.5

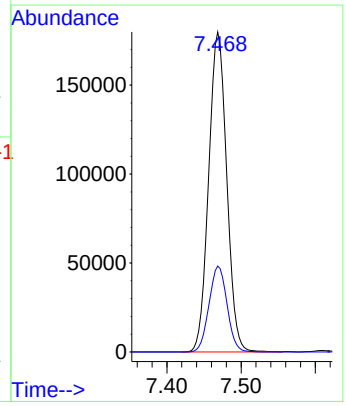




#58
2-Chloroethyl Vinyl ether
Concen: 302.927 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 63 Resp: 303310

Ion	Ratio	Lower	Upper
63	100		
106	26.8	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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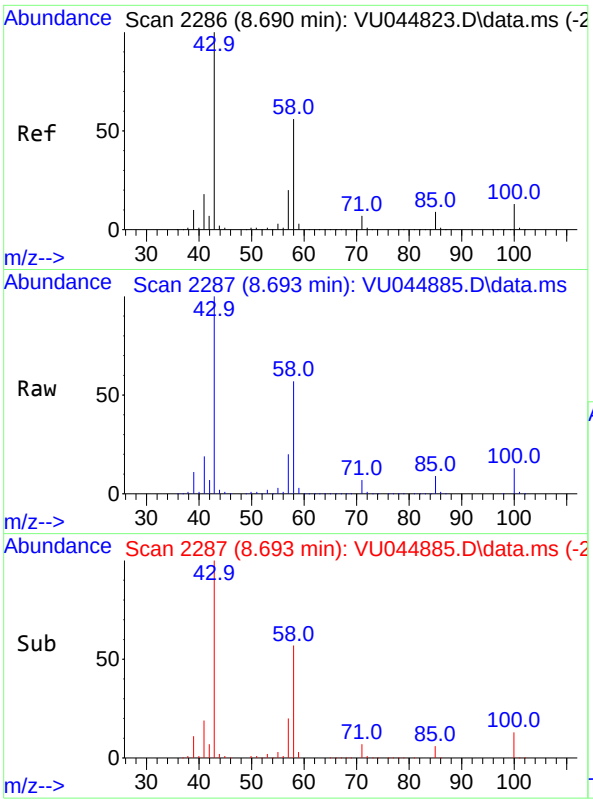
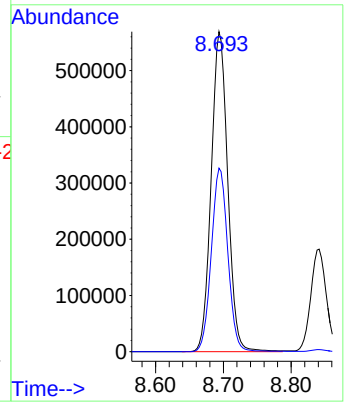
9/28/2021 7:04:46 PM

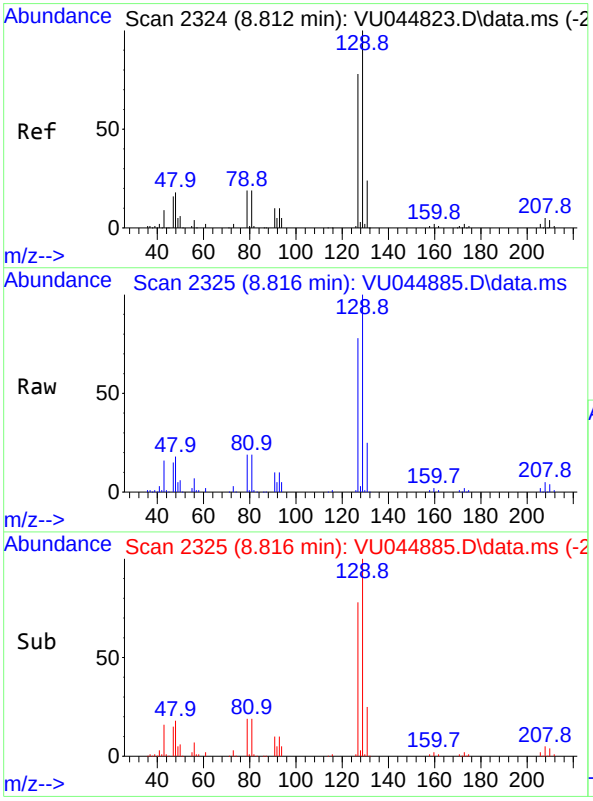


#59
2-Hexanone
Concen: 278.611 ug/l
RT: 8.693 min Scan# 2287
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 963671

Ion	Ratio	Lower	Upper
43	100		
58	57.4	28.0	84.0

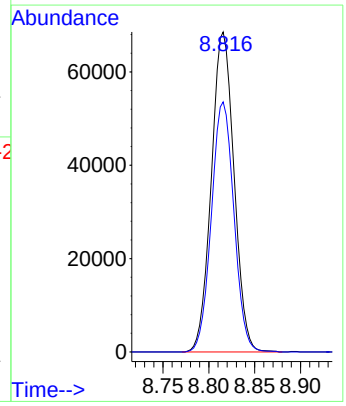




#60
Dibromochloromethane
Concen: 53.751 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:129 Resp: 118147

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.0	117.0



Instrument :
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ClientSampleId :
VSTDCCC050

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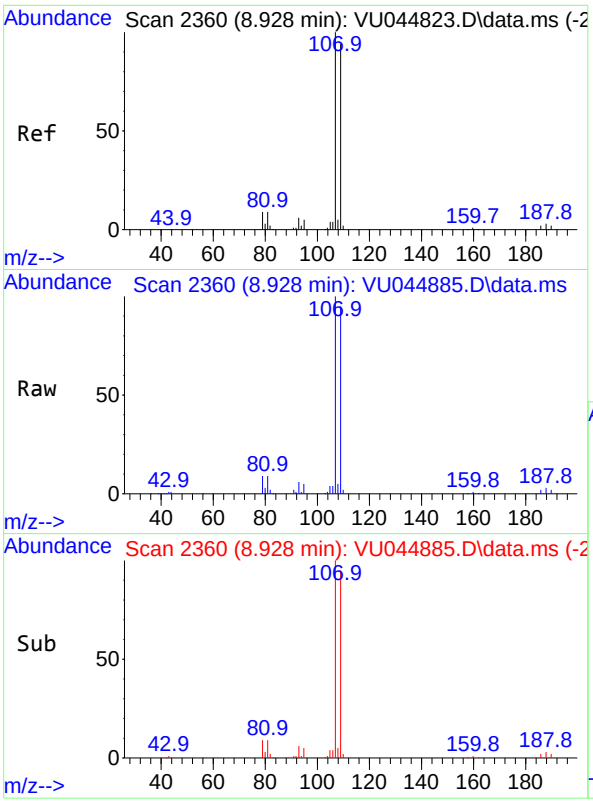
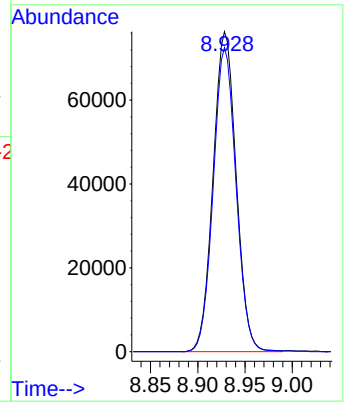
9/28/2021 7:04:46 PM

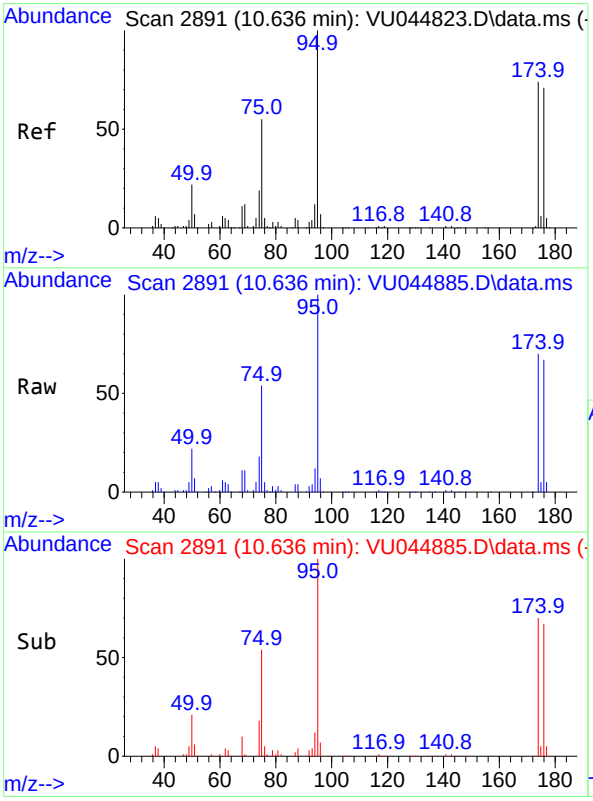


#61
1,2-Dibromoethane
Concen: 53.735 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:107 Resp: 129508

Ion	Ratio	Lower	Upper
107	100		
109	94.1	74.8	112.2

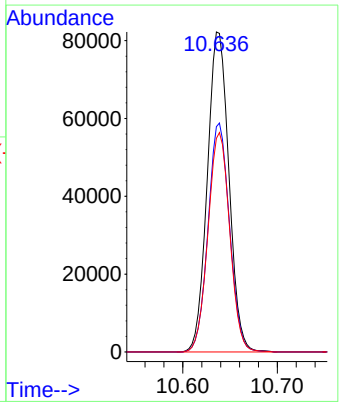




#62
4-Bromofluorobenzene
Concen: 48.871 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 95 Resp: 130550

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	146.6
176	68.8	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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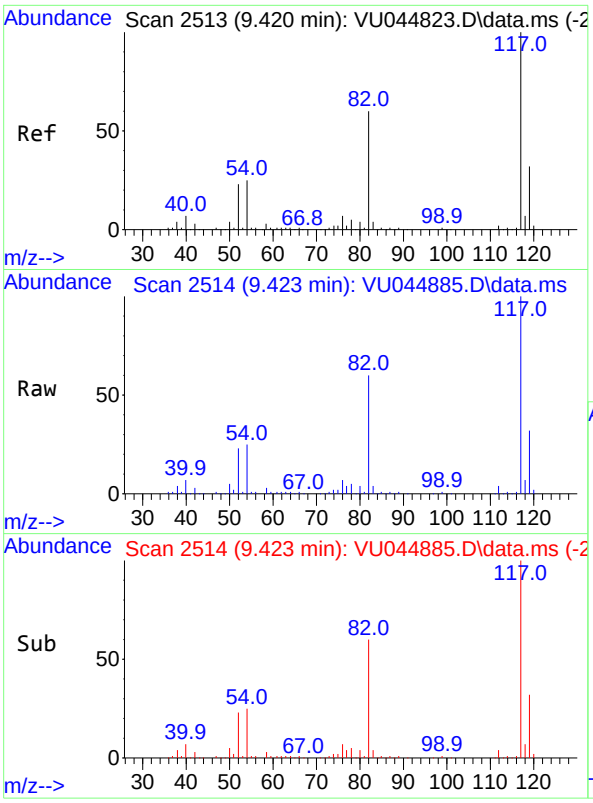
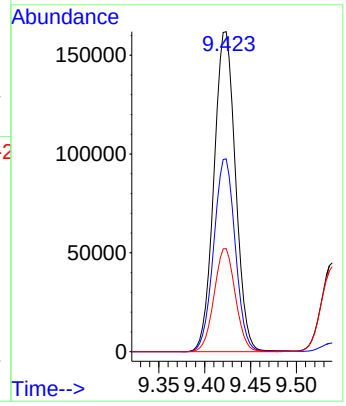
9/28/2021 7:04:46 PM

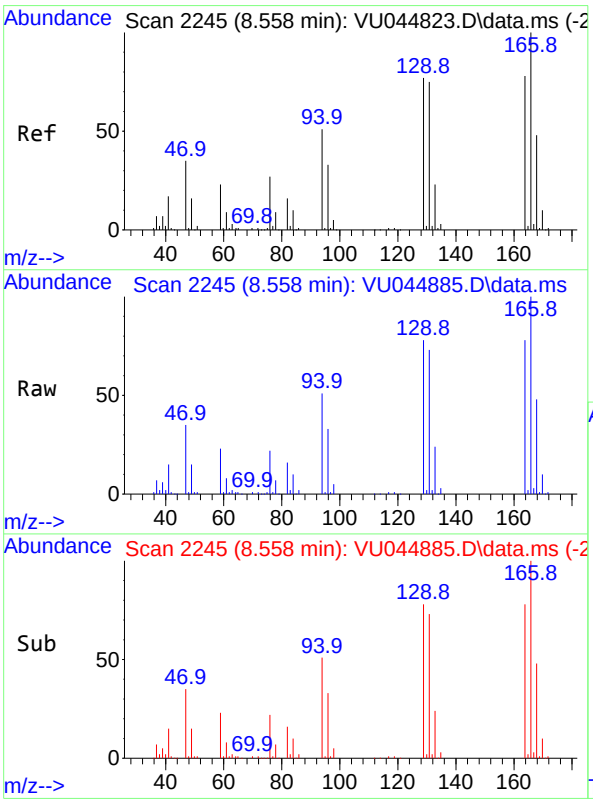


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.423 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:117 Resp: 264605

Ion	Ratio	Lower	Upper
117	100		
82	60.3	47.8	71.8
119	32.2	25.8	38.6

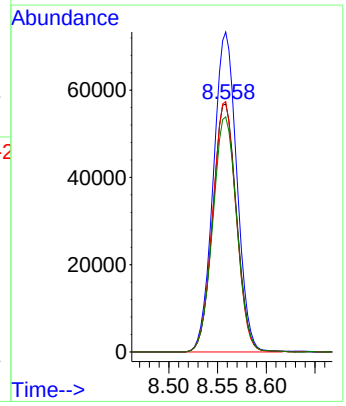




#64
Tetrachloroethene
Concen: 53.894 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:164 Resp: 96661

Ion	Ratio	Lower	Upper
164	100		
166	129.0	102.8	154.2
129	100.9	79.4	119.2
131	94.7	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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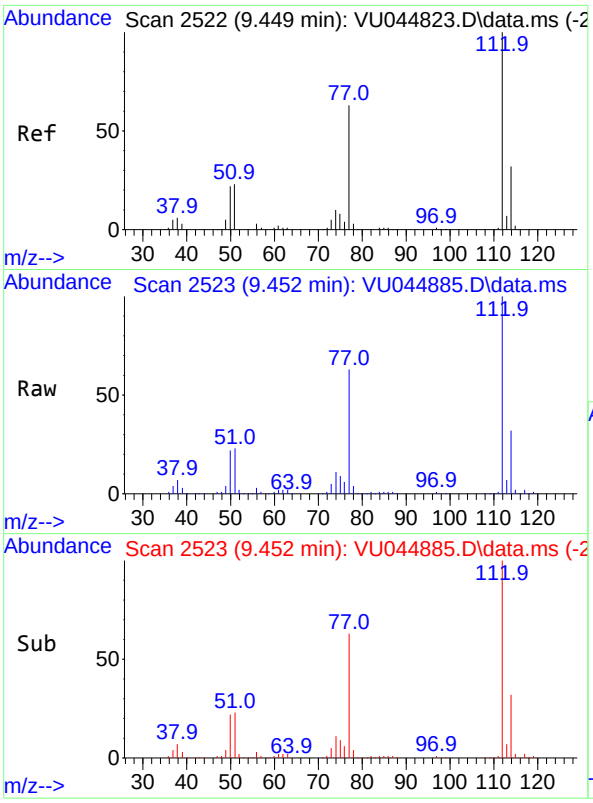
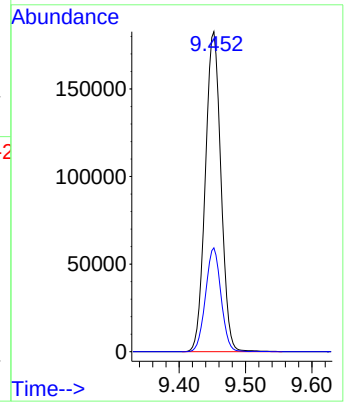
9/28/2021 7:04:46 PM

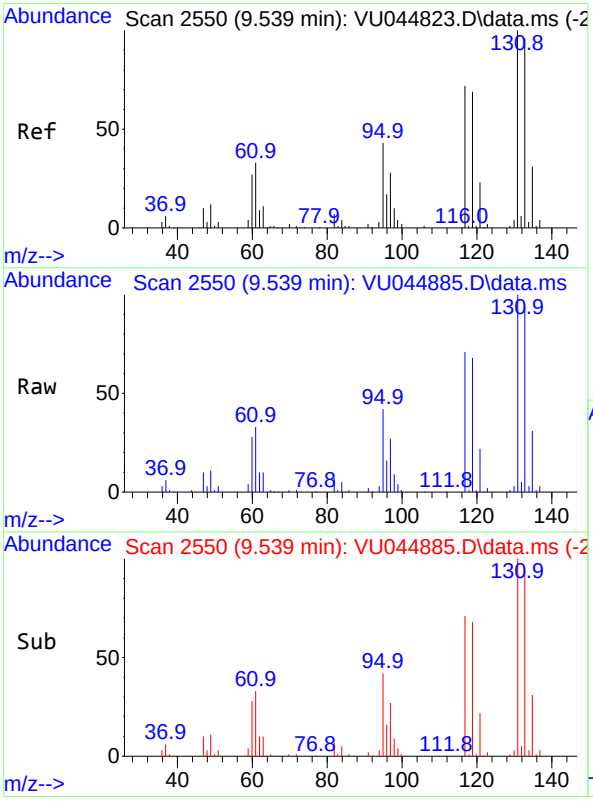


#65
Chlorobenzene
Concen: 54.521 ug/l
RT: 9.452 min Scan# 2523
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:112 Resp: 299488

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.9	38.9

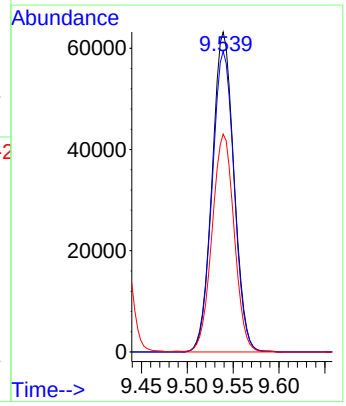




#66
1,1,1,2-Tetrachloroethane
Concen: 53.536 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:131 Resp: 104892

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.1	144.3
119	68.8	34.1	102.3



Instrument :
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ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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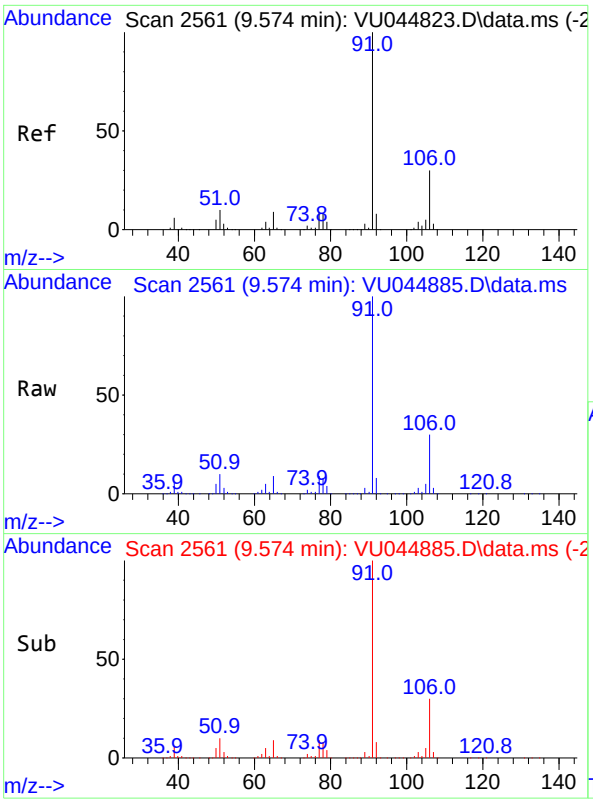
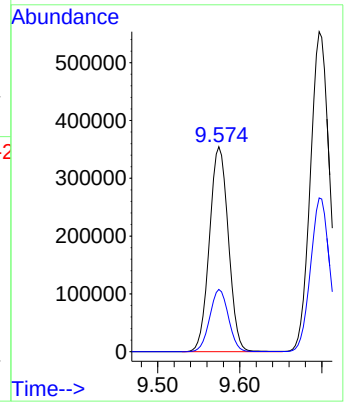
9/28/2021 7:04:46 PM

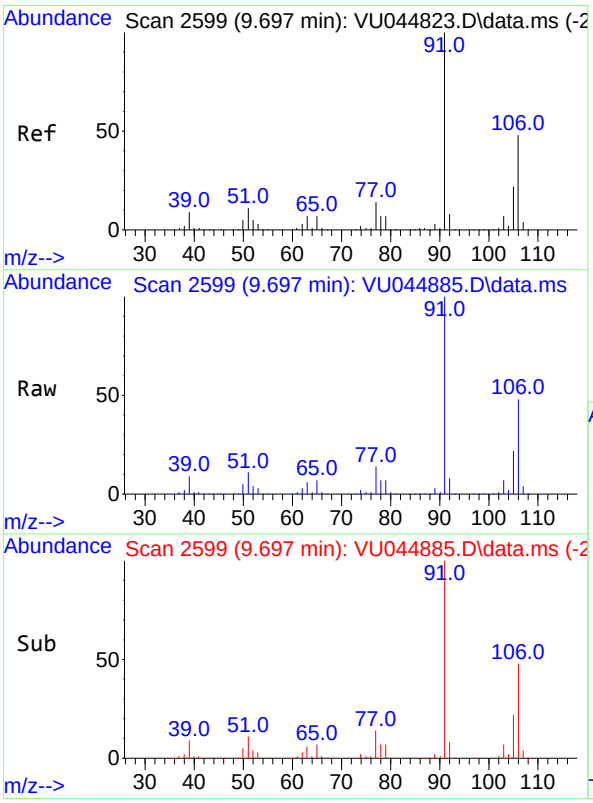


#67
Ethyl Benzene
Concen: 57.889 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 91 Resp: 567578

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

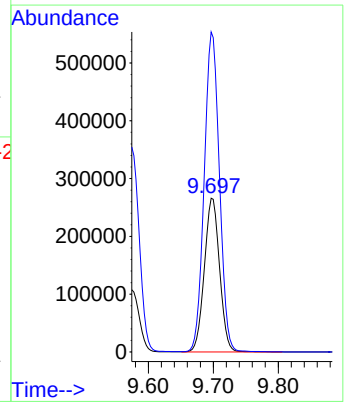




#68
m/p-Xylenes
Concen: 115.833 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:106 Resp: 434367

Ion	Ratio	Lower	Upper
106	100		
91	208.2	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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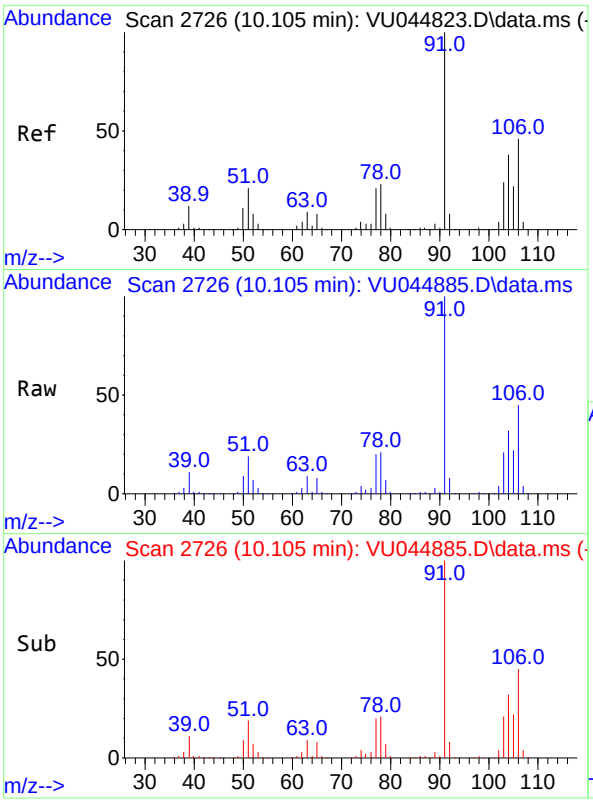
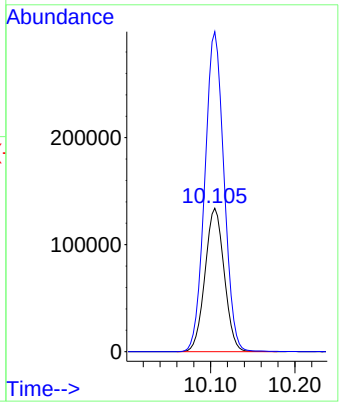
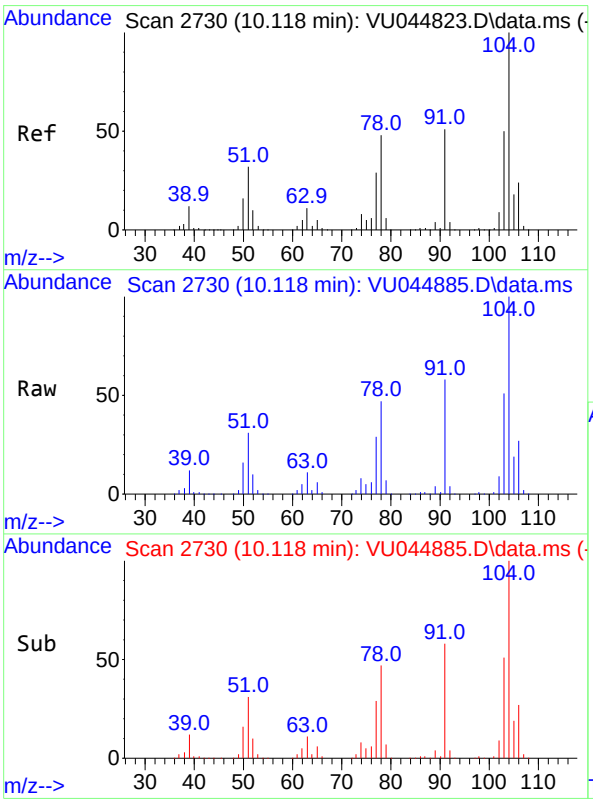


#69
o-Xylene
Concen: 58.639 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:106 Resp: 212629

Ion	Ratio	Lower	Upper
106	100		
91	222.3	108.9	326.7

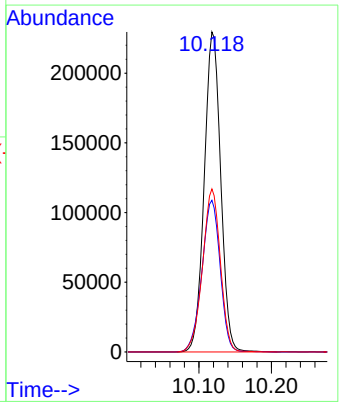




#70
Styrene
Concen: 53.403 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:104 Resp: 362402

Ion	Ratio	Lower	Upper
104	100		
78	52.6	41.4	62.0
103	55.2	43.5	65.3



Instrument :
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ClientSampleId :
VSTDCCC050

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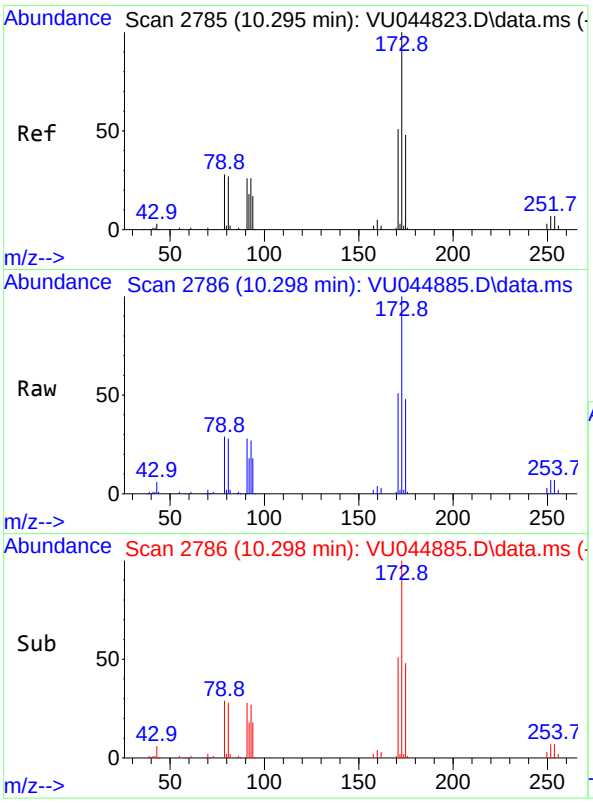
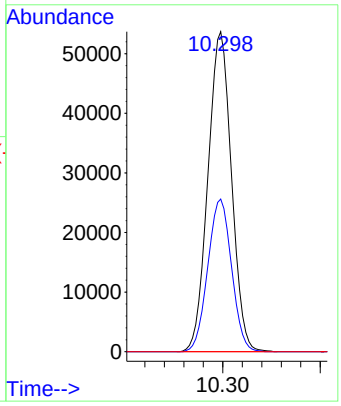
9/28/2021 7:04:46 PM

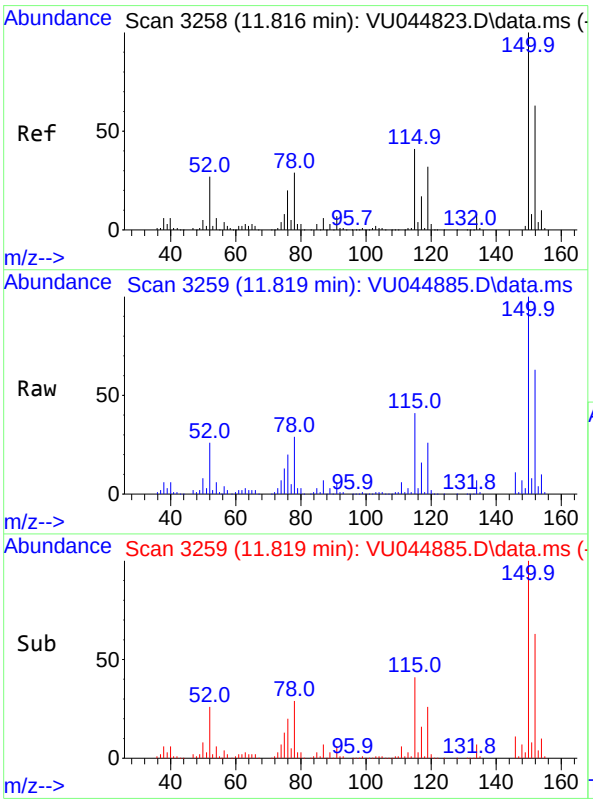


#71
Bromoform
Concen: 55.531 ug/l
RT: 10.298 min Scan# 2786
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:173 Resp: 90024

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.3	73.0
254	0.0	0.0	0.0

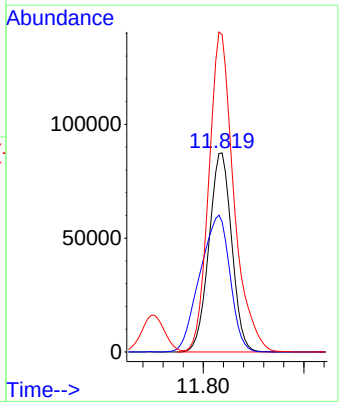




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.819 min Scan# 3259
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

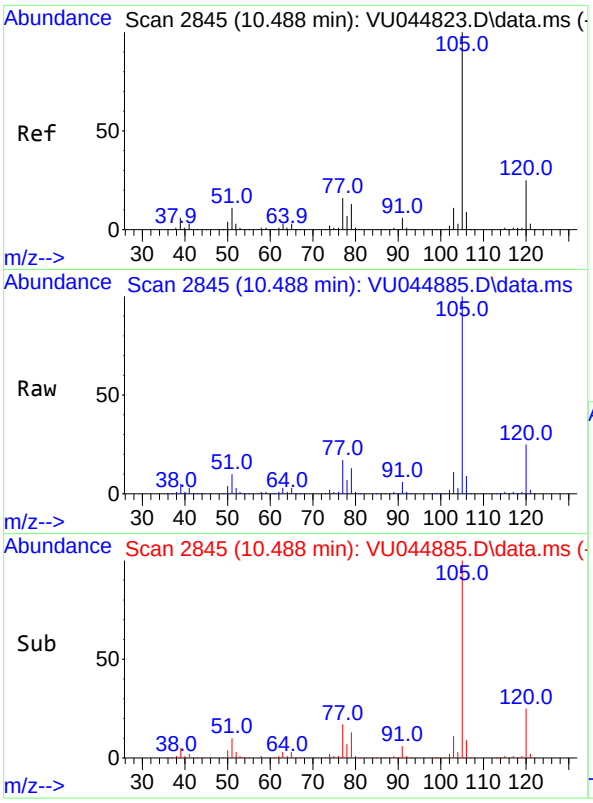
Tgt Ion:152 Resp: 137410

Ion	Ratio	Lower	Upper
152	100		
115	90.4	43.5	130.7
150	176.5	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

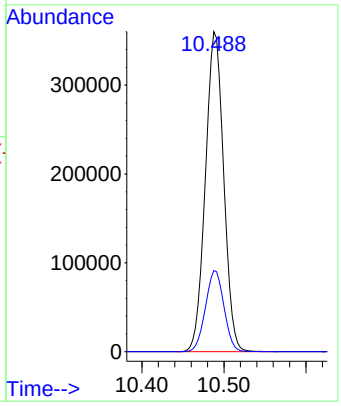
Manual Integrations APPROVED
MMDadoda
9/28/2021 7:04:46 PM

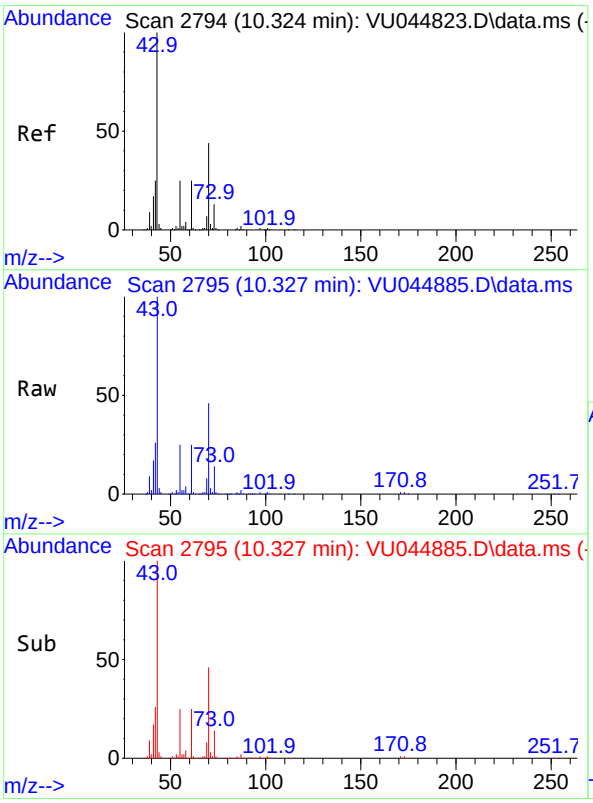


#73
Isopropylbenzene
Concen: 57.173 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:105 Resp: 557589

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.3

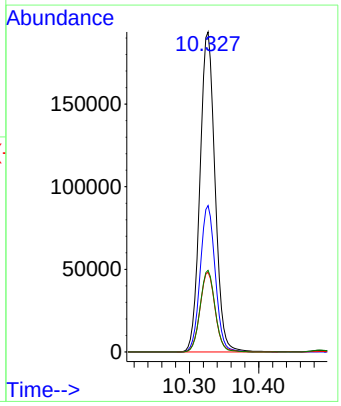




#74
N-amyl acetate
Concen: 58.615 ug/l
RT: 10.327 min Scan# 2795
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 43 Resp: 291368

Ion	Ratio	Lower	Upper
43	100		
70	45.9	35.1	52.7
55	25.1	20.5	30.7
61	25.4	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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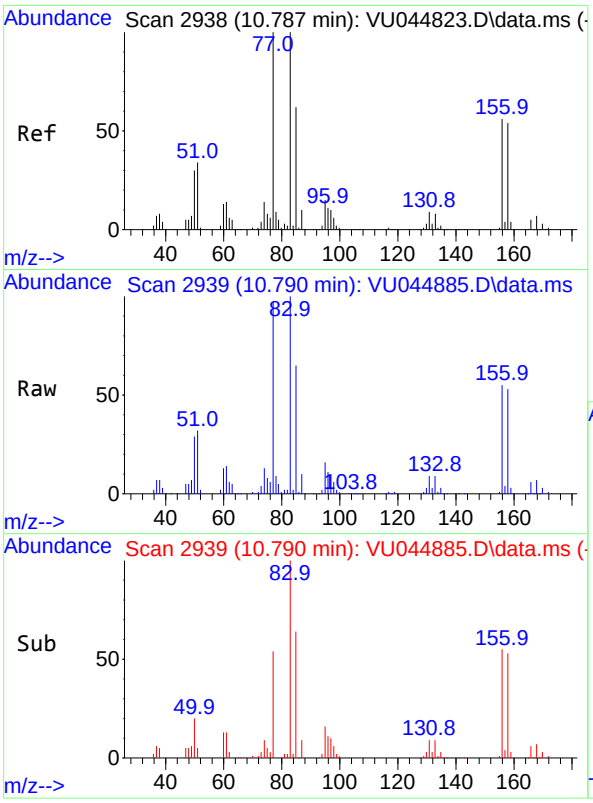
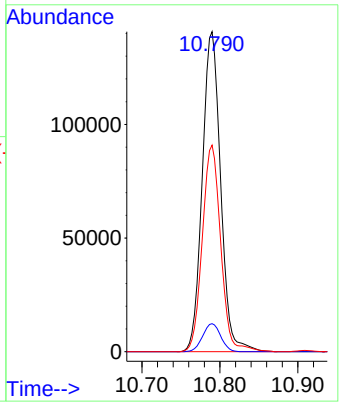
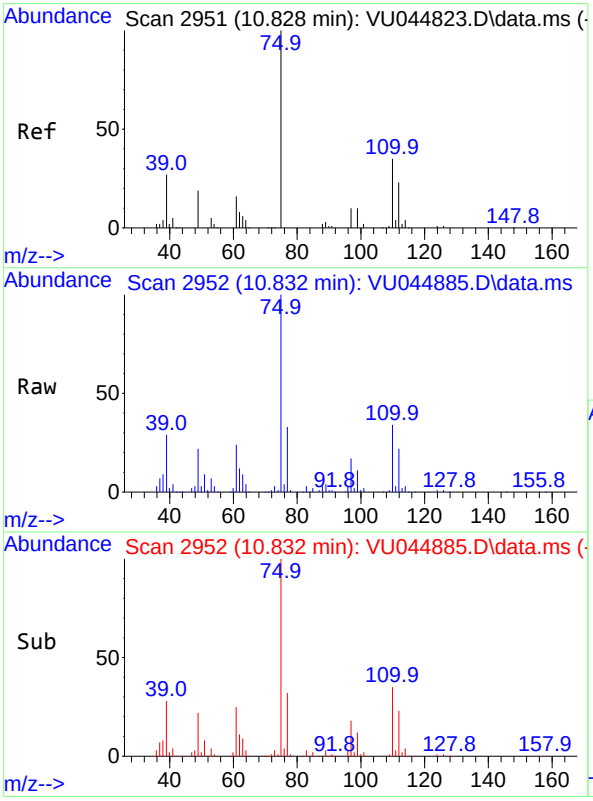


#75
1,1,2,2-Tetrachloroethane
Concen: 51.884 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 83 Resp: 230529

Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.3	13.1
85	64.8	31.9	95.5

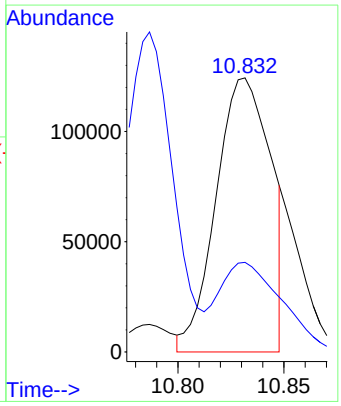




#76
1,2,3-Trichloropropane
Concen: 53.376 ug/l m
RT: 10.832 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 75 Resp: 222097

Ion	Ratio	Lower	Upper
75	100		
77	38.0	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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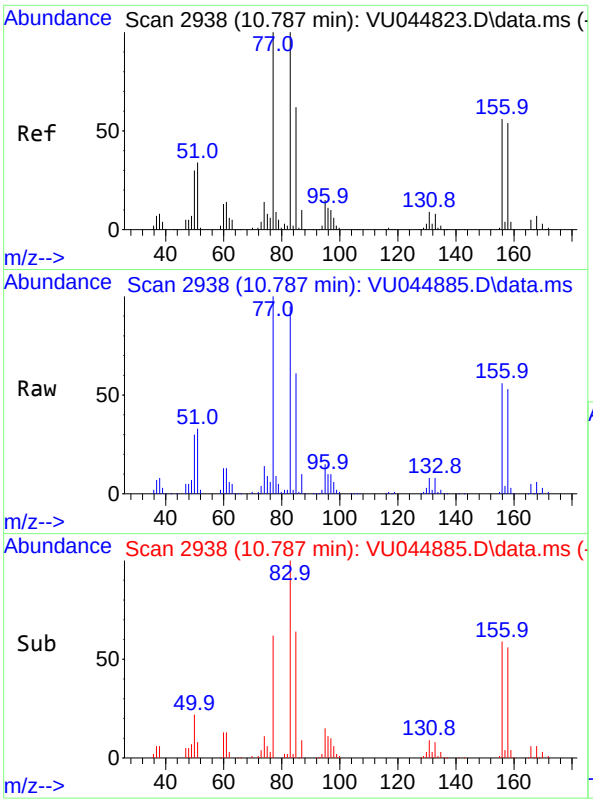
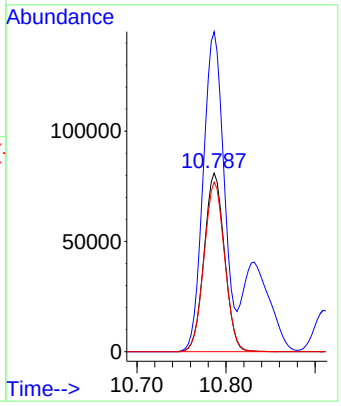
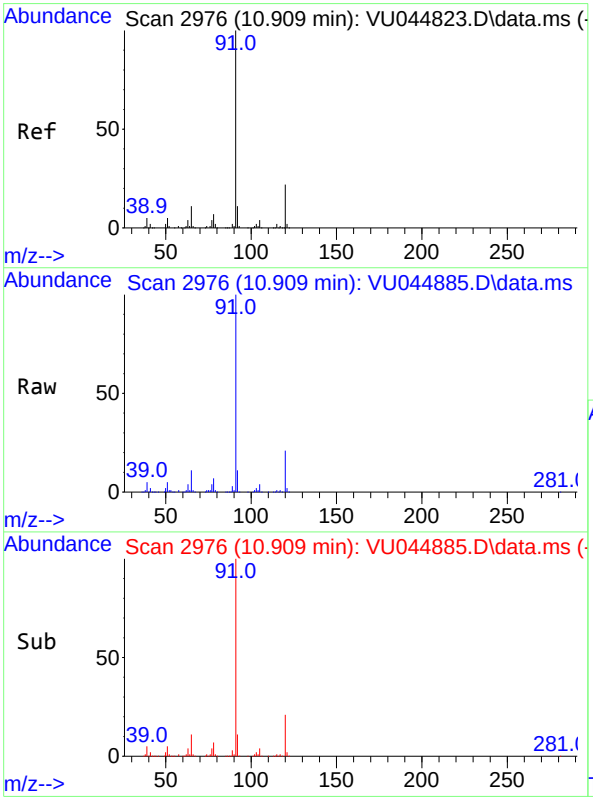


#77
Bromobenzene
Concen: 55.139 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:156 Resp: 128474

Ion	Ratio	Lower	Upper
156	100		
77	183.3	91.1	273.4
158	96.4	48.2	144.6

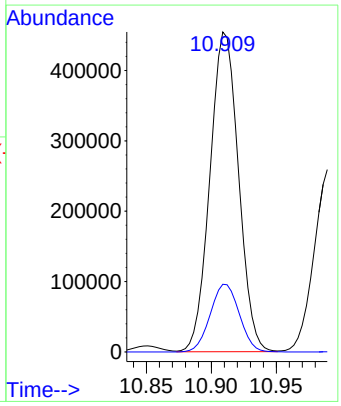




#78
n-propylbenzene
Concen: 58.815 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 91 Resp: 695045

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.8	32.4



Instrument :
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ClientSampleId :
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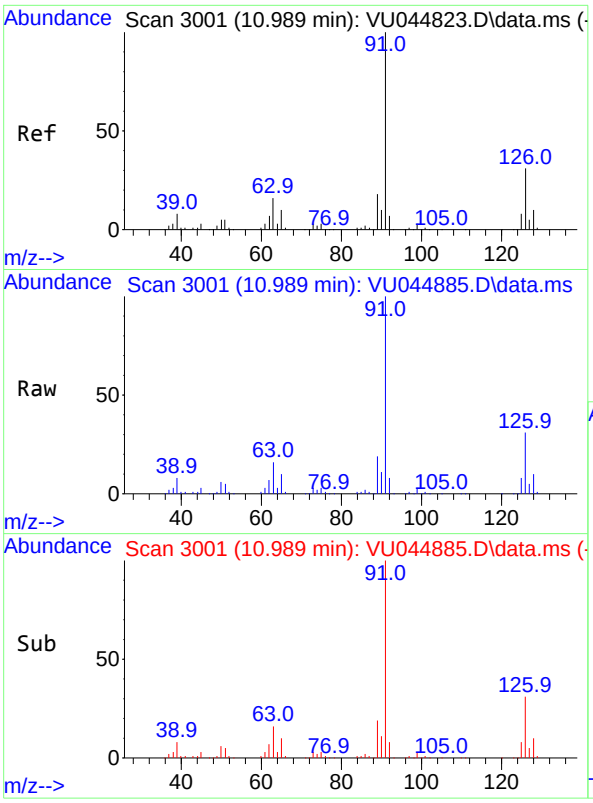
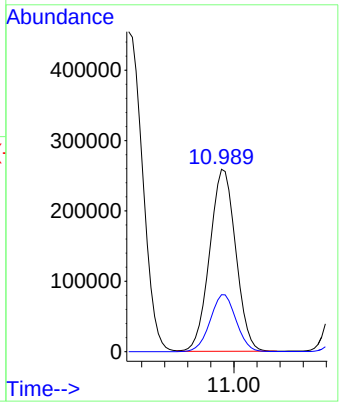
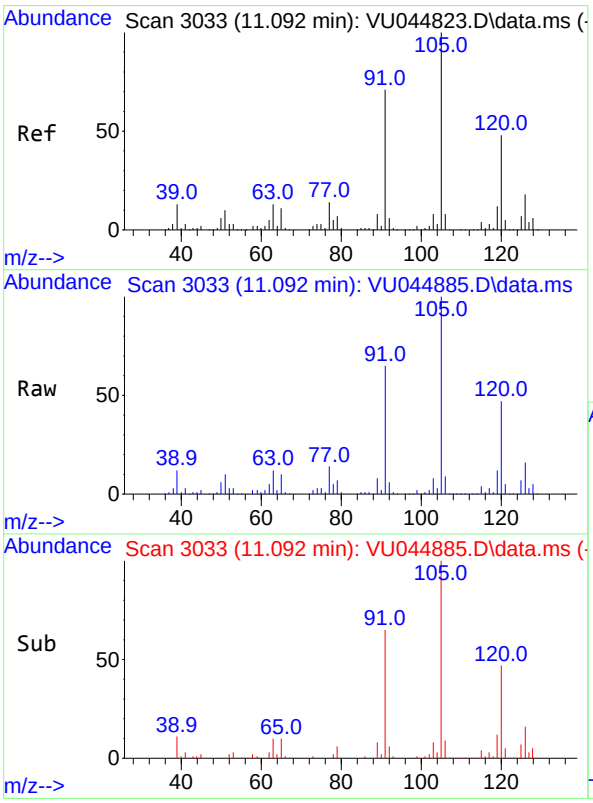


#79
2-Chlorotoluene
Concen: 56.249 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 91 Resp: 405120

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.7	47.0

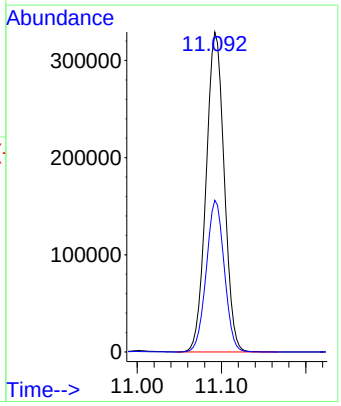




#80
1,3,5-Trimethylbenzene
Concen: 59.473 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:105 Resp: 491314

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.1	72.2



Instrument :
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ClientSampleId :
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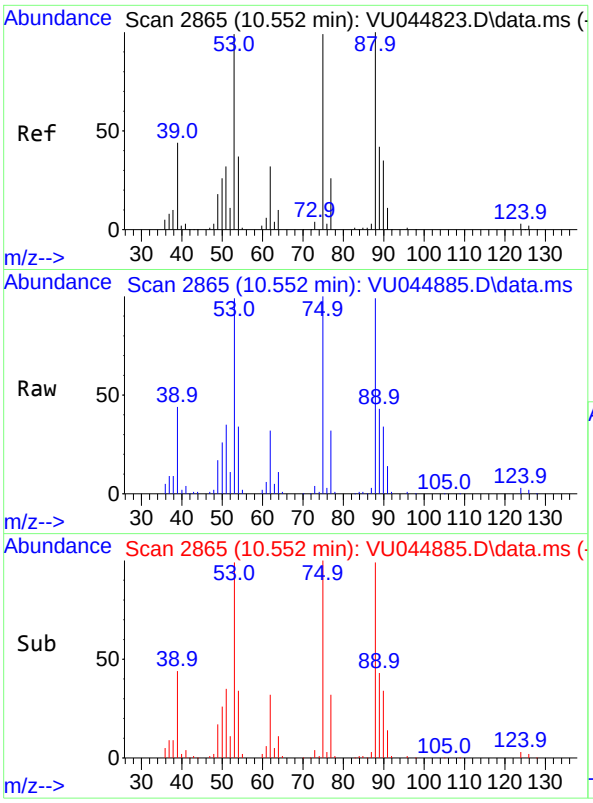
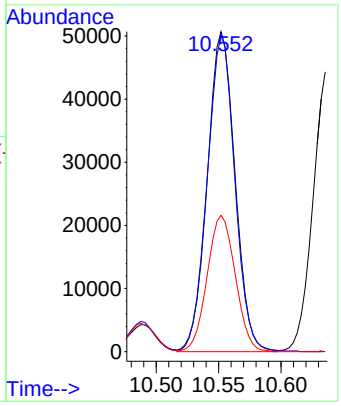
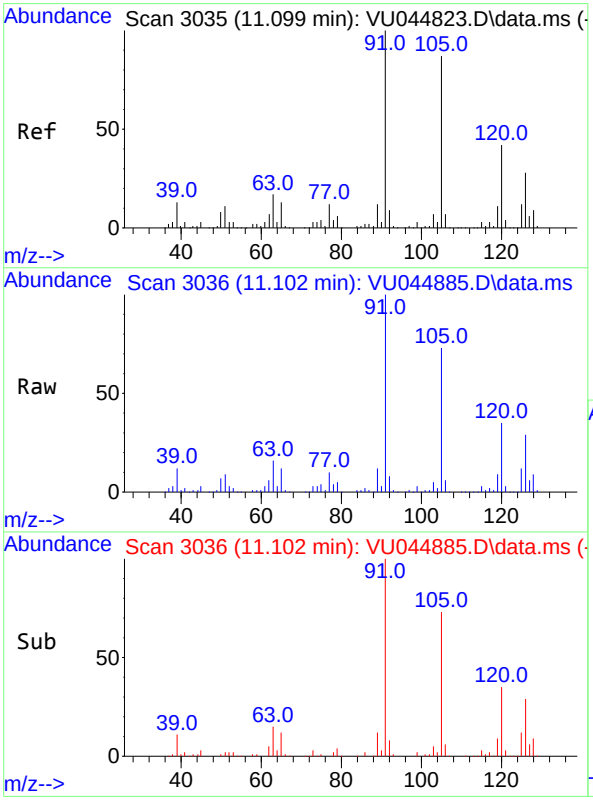


#81
trans-1,4-Dichloro-2-butene
Concen: 61.009 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 75 Resp: 78365

Ion	Ratio	Lower	Upper
75	100		
53	98.8	82.0	123.0
89	43.3	34.2	51.4

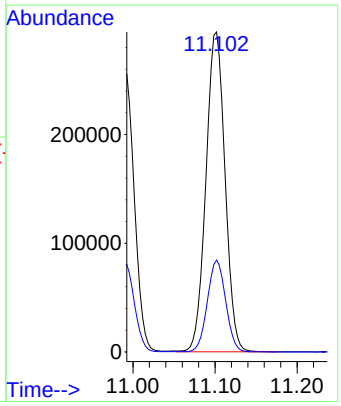




#82
4-Chlorotoluene
Concen: 57.998 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 91 Resp: 475562

Ion	Ratio	Lower	Upper
91	100		
126	27.5	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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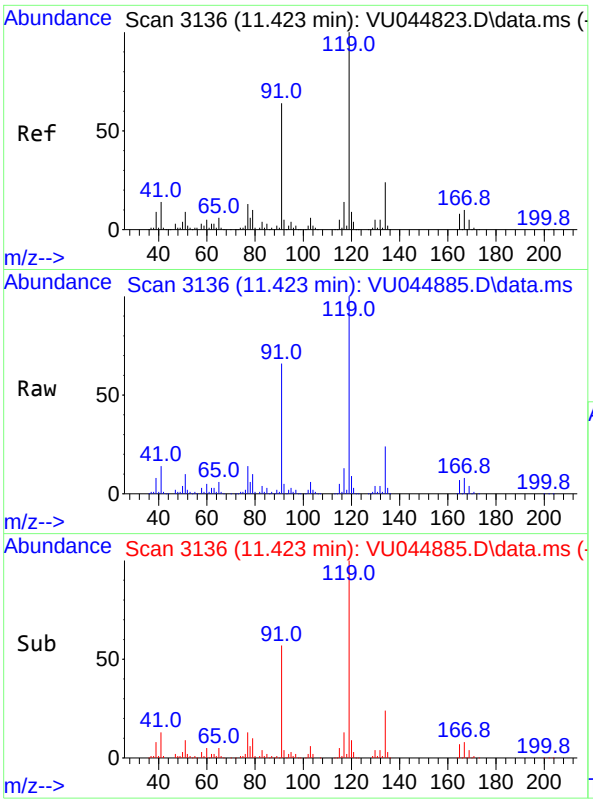
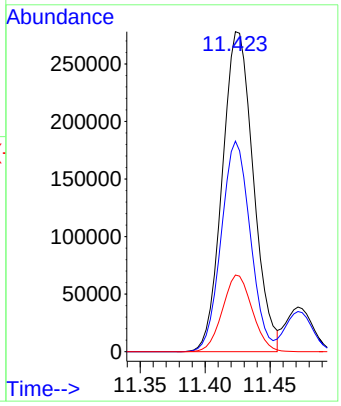
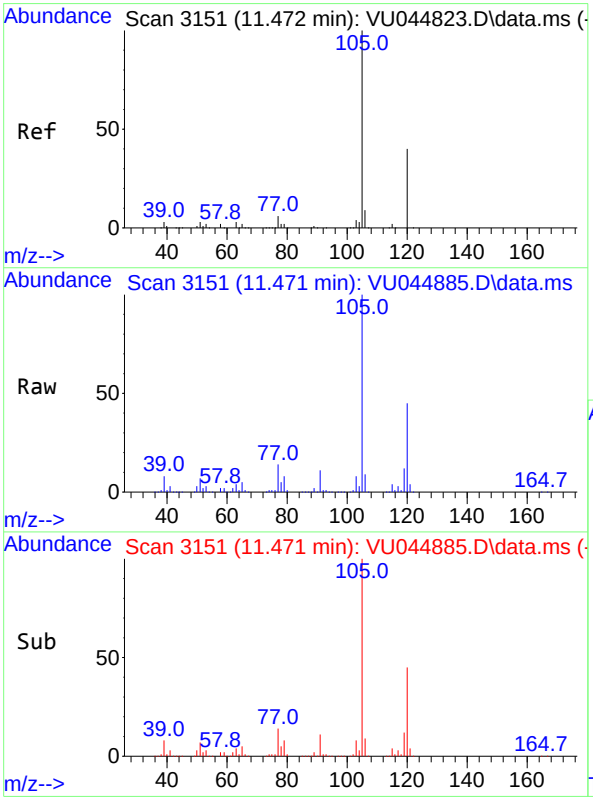


#83
tert-Butylbenzene
Concen: 58.022 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:119 Resp: 462398

Ion	Ratio	Lower	Upper
119	100		
91	61.6	30.4	91.2
134	22.9	11.5	34.5

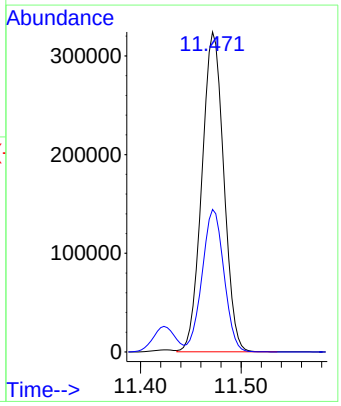




#84
1,2,4-Trimethylbenzene
Concen: 60.024 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:105 Resp: 488856

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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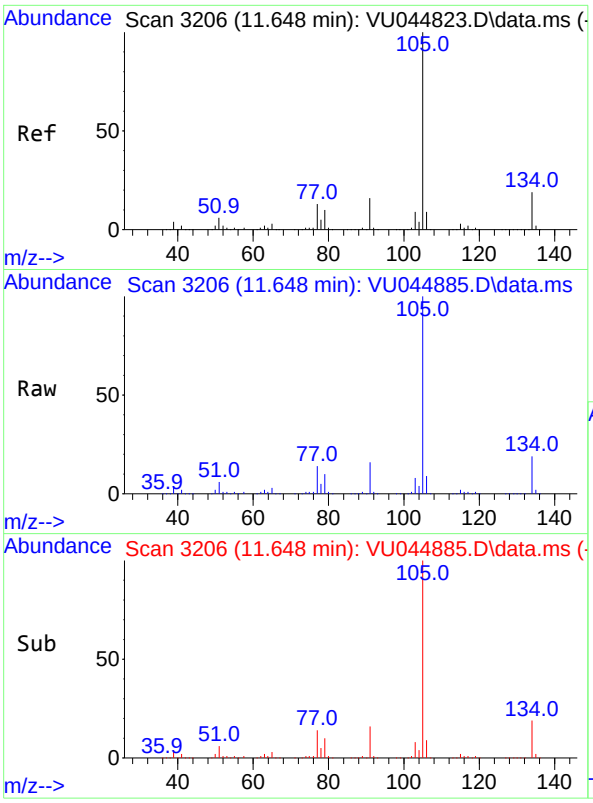
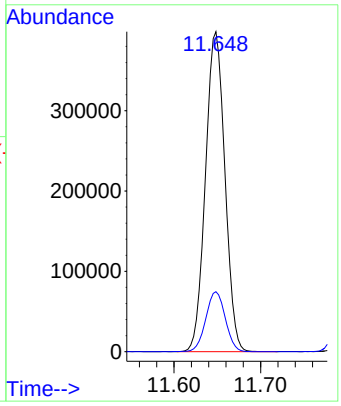
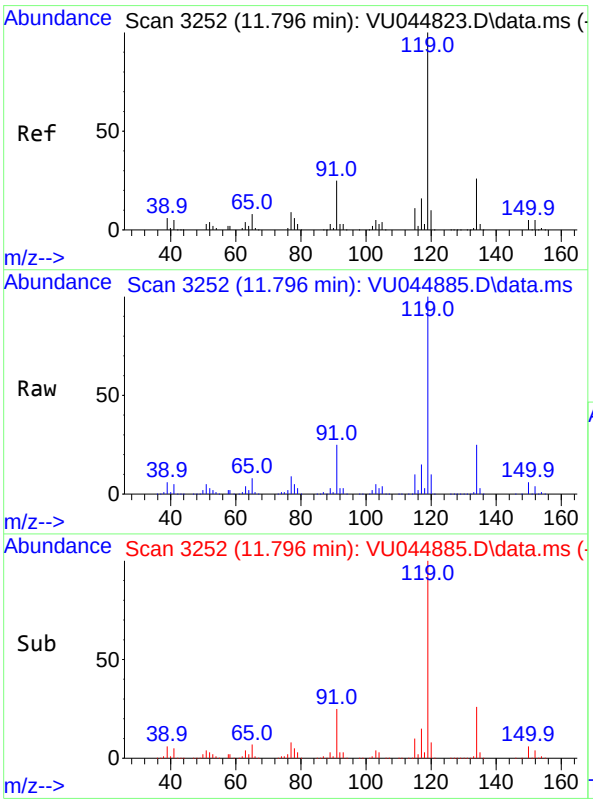


#85
sec-Butylbenzene
Concen: 60.274 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:105 Resp: 621137

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.3	28.0

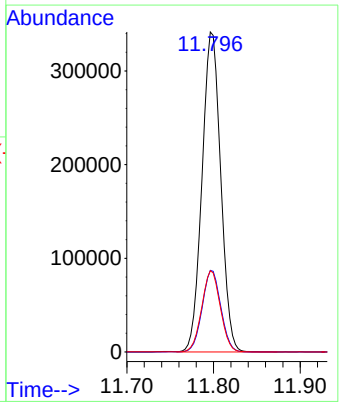




#86
p-Isopropyltoluene
Concen: 61.053 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:119 Resp: 511835

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.3
91	25.3	12.2	36.6



Instrument :
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ClientSampleId :
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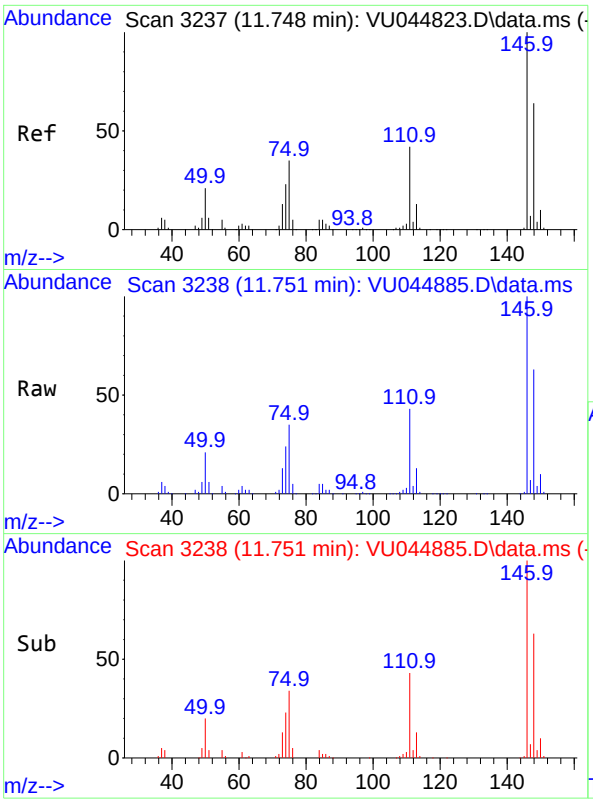
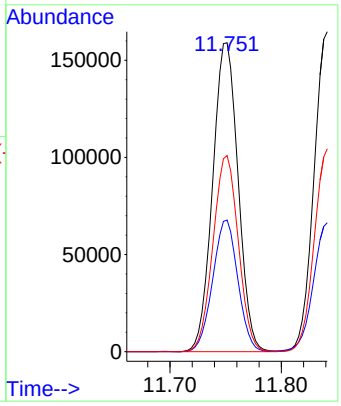
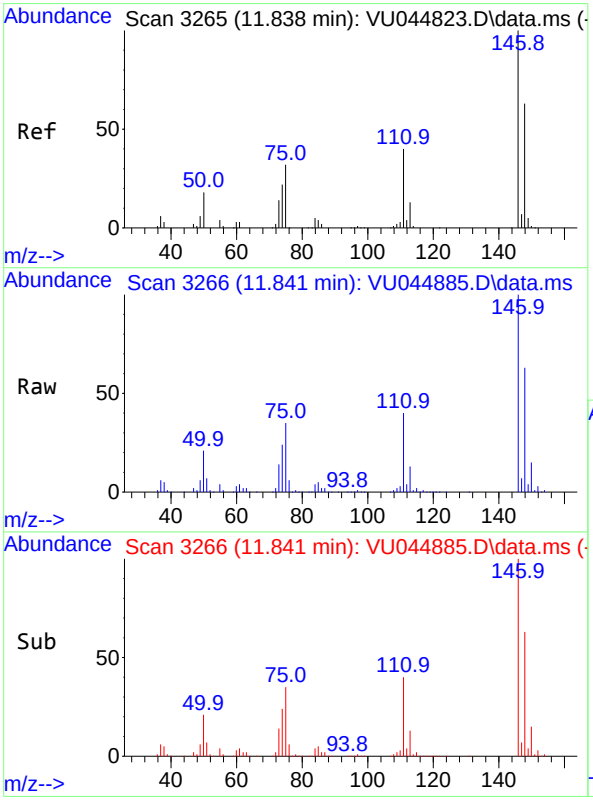


#87
1,3-Dichlorobenzene
Concen: 55.828 ug/l
RT: 11.751 min Scan# 3238
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:146 Resp: 252434

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.2	63.6
148	63.3	32.1	96.3

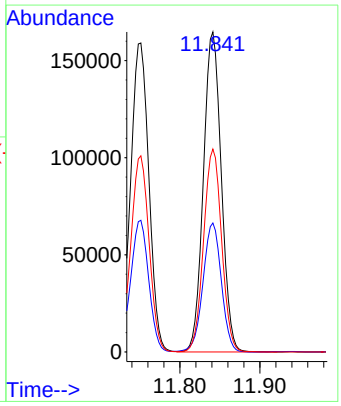




#88
1,4-Dichlorobenzene
Concen: 54.907 ug/l
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:146 Resp: 256744

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	61.0
148	63.9	31.8	95.3



Instrument :
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ClientSampleId :
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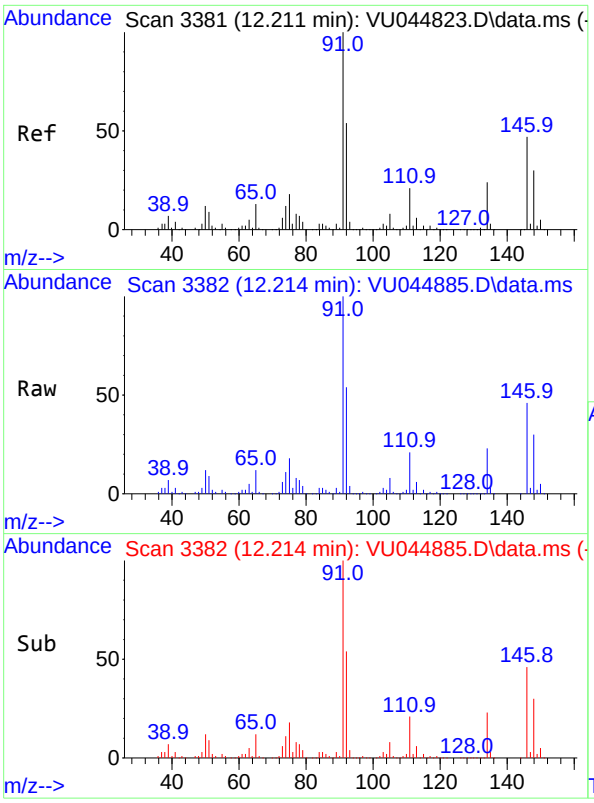
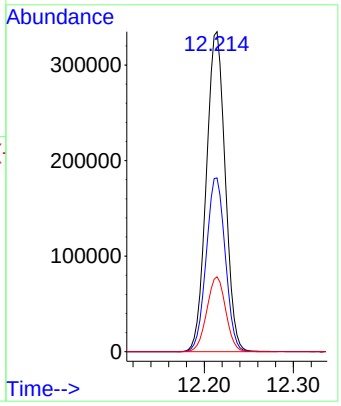
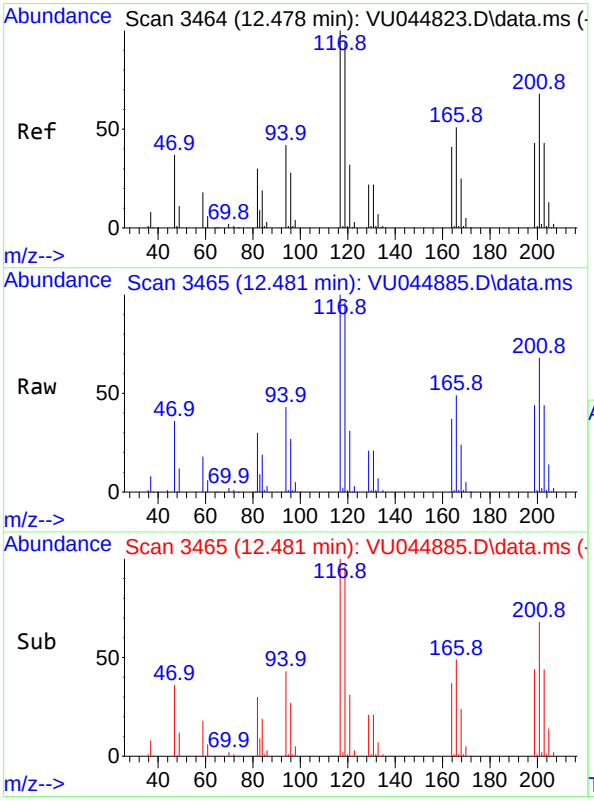


#89
n-Butylbenzene
Concen: 56.797 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion: 91 Resp: 492000

Ion	Ratio	Lower	Upper
91	100		
92	54.8	26.8	80.4
134	23.4	11.8	35.4

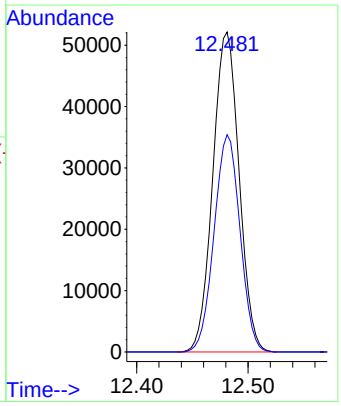




#90
Hexachloroethane
Concen: 56.616 ug/l
RT: 12.481 min Scan# 3465
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:117 Resp: 85527

Ion	Ratio	Lower	Upper
117	100		
201	67.0	34.8	104.3



Instrument :
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ClientSampleId :
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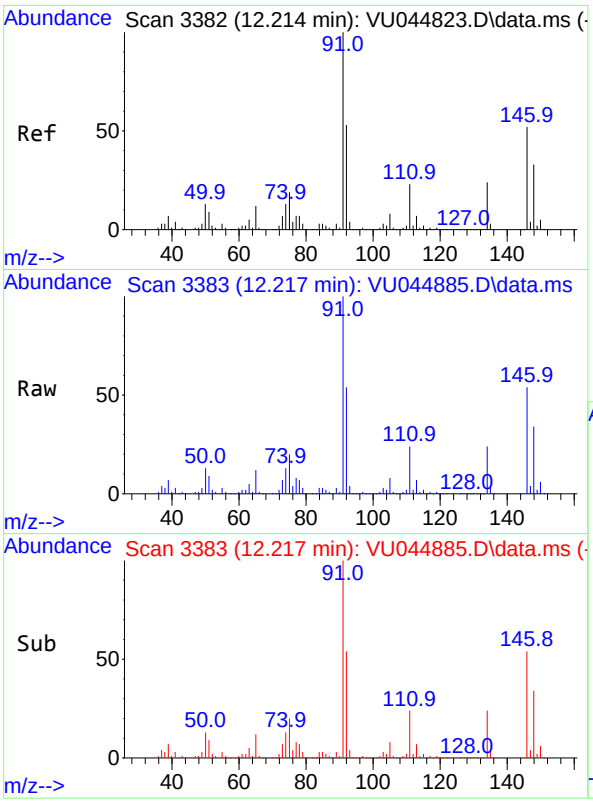
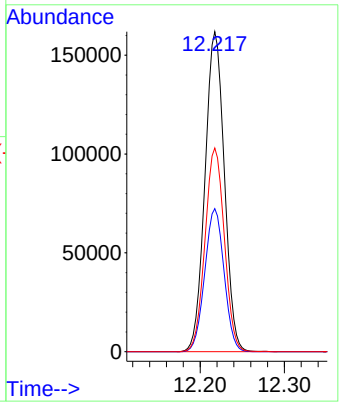
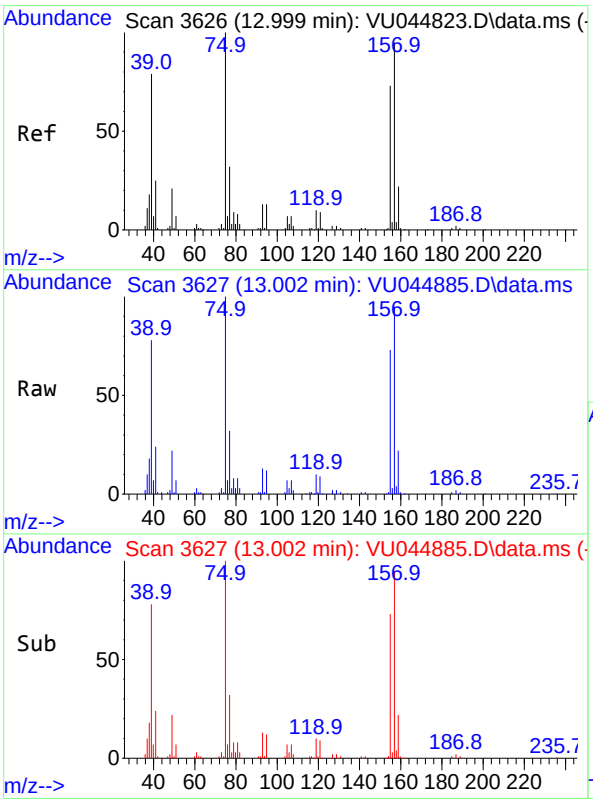


#91
1,2-Dichlorobenzene
Concen: 53.950 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:146 Resp: 258513

Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.4	64.3
148	63.7	31.8	95.3

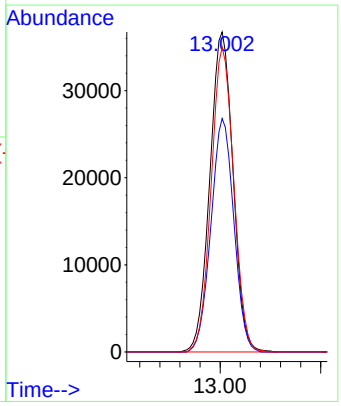




#92
1,2-Dibromo-3-Chloropropane
Concen: 54.608 ug/l
RT: 13.002 min Scan# 3627
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

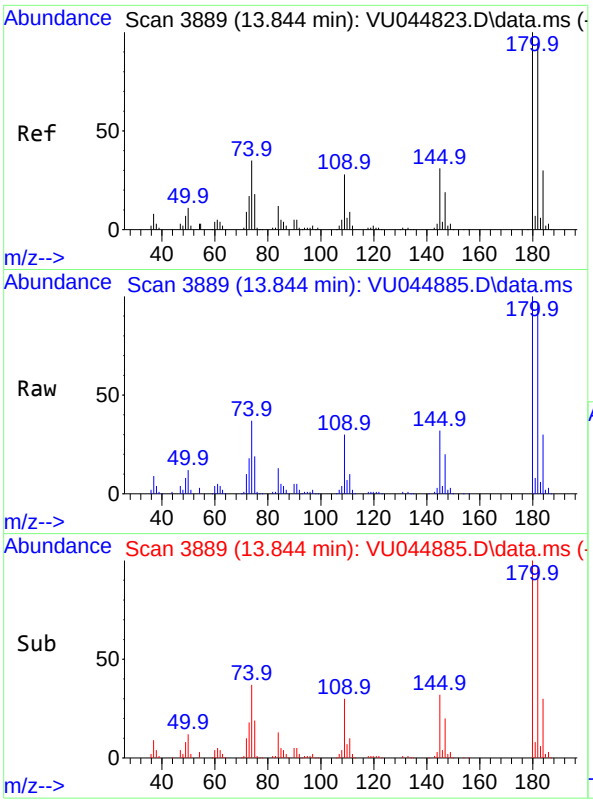
Tgt Ion: 75 Resp: 58834

Ion	Ratio	Lower	Upper
75	100		
155	71.9	36.9	110.6
157	92.7	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

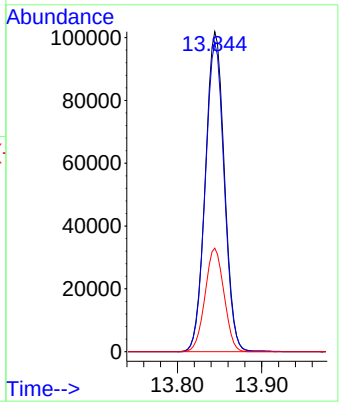
Manual Integrations APPROVED
MMDadoda
9/28/2021 7:04:46 PM

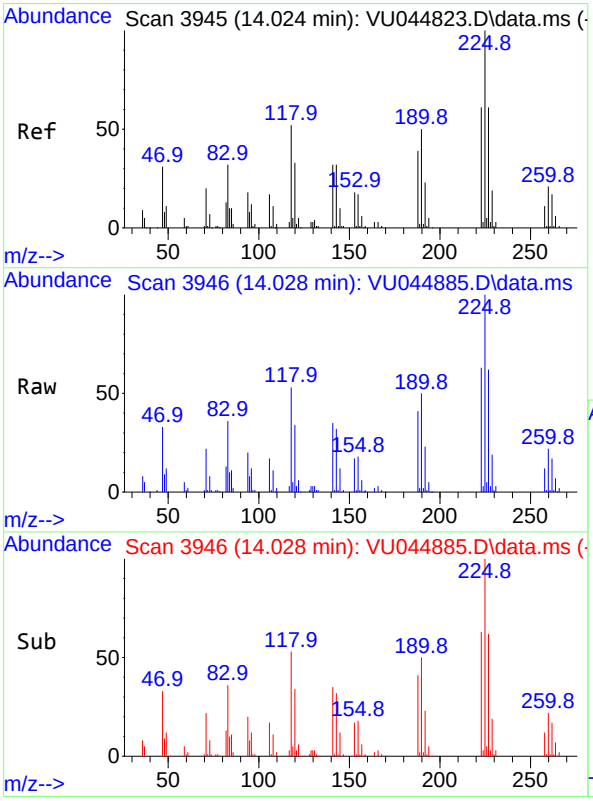


#93
1,2,4-Trichlorobenzene
Concen: 60.572 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:180 Resp: 160379

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.4	142.3
145	32.1	15.4	46.2

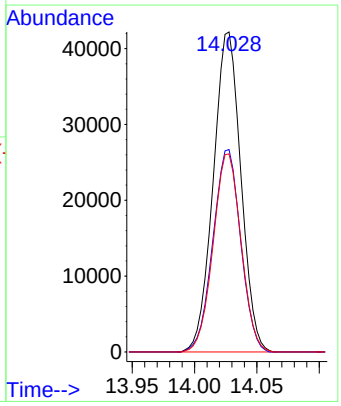




#94
Hexachlorobutadiene
Concen: 55.342 ug/l
RT: 14.028 min Scan# 3946
Delta R.T. 0.003 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

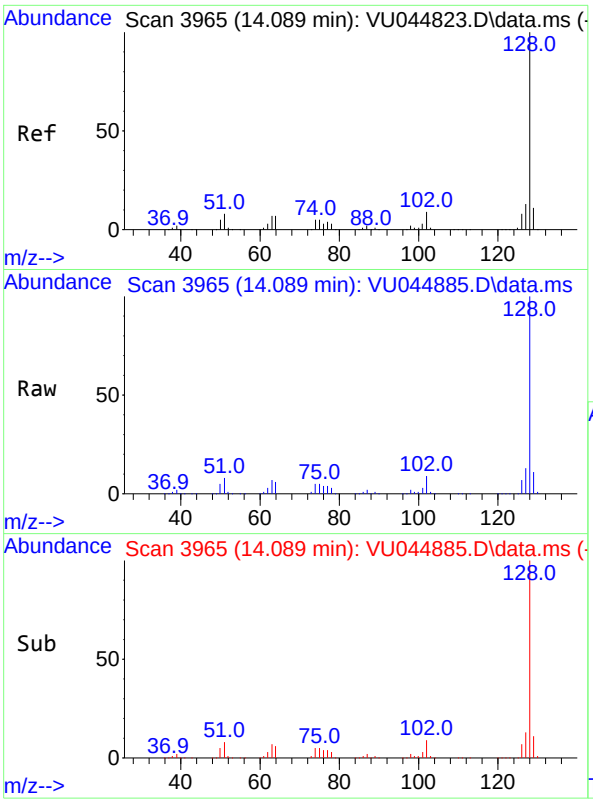
Tgt Ion:225 Resp: 65187

Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.1	93.3
227	62.5	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

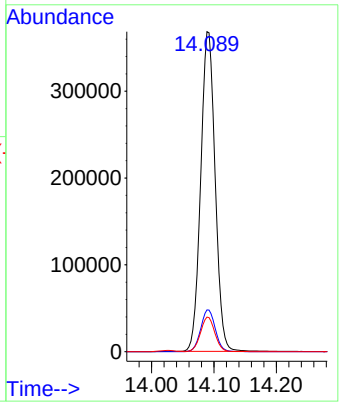
Manual Integrations APPROVED
MMDadoda
9/28/2021 7:04:46 PM

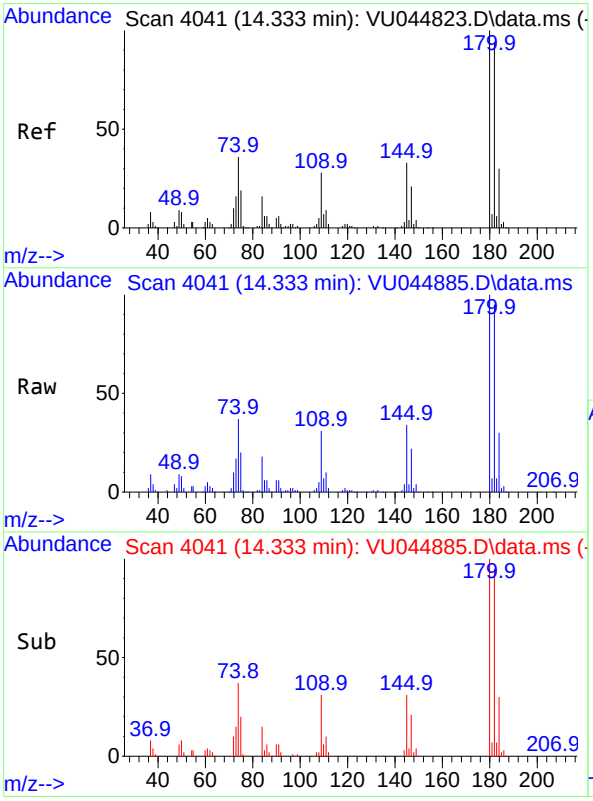


#95
Naphthalene
Concen: 56.034 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:128 Resp: 591791

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.8	8.6	13.0

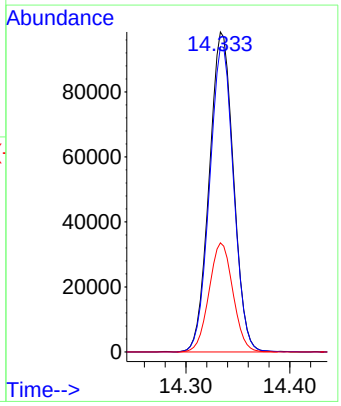




#96
1,2,3-Trichlorobenzene
Concen: 59.088 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044885.D
Acq: 27 Sep 2021 12:20

Tgt Ion:180 Resp: 159089

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.1	141.4
145	33.8	16.4	49.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	0.599	0.677	-13.0	109	0.00
3	P	Chloromethane	0.909	0.806	11.3	93	0.00
4	C	Vinyl Chloride	0.848	0.860	-1.4#	101	0.00
5	T	Bromomethane	0.450	0.380	15.6	91	0.00
6	T	Chloroethane	0.659	0.575	12.7	102	0.00
7	T	Trichlorofluoromethane	1.042	1.116	-7.1	107	0.00
8	T	Diethyl Ether	0.477	0.511	-7.1	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.608	0.642	-5.6	104	0.00
10	T	Methyl Iodide	0.661	0.682	-3.2	96	0.00
11	T	Tert butyl alcohol	0.255	0.224	12.2	91	0.06
12	CM	1,1-Dichloroethene	0.602	0.641	-6.5#	106	0.00
13	T	Acrolein	0.072	0.073	-1.4	105	0.00
14	T	Allyl chloride	1.169	1.184	-1.3	99	0.00
15	T	Acrylonitrile	0.532	0.497	6.6	91	0.00
16	T	Acetone	0.492	0.733	-49.0#	153#	0.00
17	T	Carbon Disulfide	1.694	1.862	-9.9	110	0.00
18	T	Methyl Acetate	1.644	1.467	10.8	89	0.00
19	T	Methyl tert-butyl Ether	2.248	2.440	-8.5	104	0.00
20	T	Methylene Chloride	0.797	0.755	5.3	100	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.686	-6.4	104	0.00
22	T	Diisopropyl ether	2.309	2.380	-3.1	99	0.00
23	T	Vinyl Acetate	1.893	1.986	-4.9	99	0.00
24	P	1,1-Dichloroethane	1.340	1.371	-2.3	100	0.00
25	T	2-Butanone	0.747	0.838	-12.2	108	0.00
26	T	2,2-Dichloropropane	1.005	1.169	-16.3	115	0.00
27	T	cis-1,2-Dichloroethene	0.784	0.812	-3.6	103	0.00
28	T	Bromochloromethane	0.637	0.503	21.0#	78	0.00
29	T	Tetrahydrofuran	0.470	0.435	7.4	88	0.00
30	C	Chloroform	1.347	1.350	-0.2#	101	0.00
31	T	Cyclohexane	1.253	1.276	-1.8	104	0.00
32	T	1,1,1-Trichloroethane	1.089	1.122	-3.0	102	0.00
33	S	1,2-Dichloroethane-d4	0.873	0.756	13.4	87	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35	S	Dibromofluoromethane	0.343	0.307	10.5	89	0.00
36	T	1,1-Dichloropropene	0.531	0.581	-9.4	105	0.00
37	T	Ethyl Acetate	0.778	0.743	4.5	93	0.00
38	T	Carbon Tetrachloride	0.474	0.505	-6.5	100	0.00
39	T	Methylcyclohexane	0.600	0.732	-22.0#	113	0.00
40	TM	Benzene	1.617	1.703	-5.3	103	0.00
41	T	Methacrylonitrile	0.389	0.390	-0.3	93	0.00
42	TM	1,2-Dichloroethane	0.636	0.672	-5.7	104	0.00
43	T	Isopropyl Acetate	1.089	1.129	-3.7	100	0.00
44	TM	Trichloroethene	0.389	0.403	-3.6	104	0.00
45	C	1,2-Dichloropropane	0.438	0.450	-2.7#	97	0.00
46	T	Dibromomethane	0.290	0.303	-4.5	101	0.00
47	T	Bromodichloromethane	0.572	0.597	-4.4	100	0.00
48	T	Methyl methacrylate	0.514	0.542	-5.4	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.013	0.013	0.0	91	0.00
50	S	Toluene-d8	1.295	1.190	8.1	90	0.00
51	T	4-Methyl-2-Pentanone	0.776	0.781	-0.6	95	0.00
52	CM	Toluene	0.967	1.068	-10.4#	105	0.00
53	T	t-1,3-Dichloropropene	0.596	0.698	-17.1	109	0.00
54	T	cis-1,3-Dichloropropene	0.646	0.744	-15.2	108	0.00
55	T	1,1,2-Trichloroethane	0.413	0.430	-4.1	101	0.00
56	T	Ethyl methacrylate	0.652	0.768	-17.8	109	0.00
57	T	1,3-Dichloropropane	0.736	0.768	-4.3	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.219	-51.0#	141	0.00
59	T	2-Hexanone	0.623	0.694	-11.4	106	0.00
60	T	Dibromochloromethane	0.396	0.426	-7.6	103	0.00
61	T	1,2-Dibromoethane	0.434	0.467	-7.6	104	0.00
62	S	4-Bromofluorobenzene	0.481	0.470	2.3	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64	T	Tetrachloroethene	0.339	0.365	-7.7	102	0.00
65	PM	Chlorobenzene	1.038	1.132	-9.1	106	0.00
66	T	1,1,1,2-Tetrachloroethane	0.370	0.396	-7.0	103	0.00
67	C	Ethyl Benzene	1.853	2.145	-15.8#	107	0.00
68	T	m/p-Xylenes	0.709	0.821	-15.8	106	0.00
69	T	o-Xylene	0.685	0.804	-17.4	107	0.00
70	T	Styrene	1.150	1.370	-19.1	107	0.00
71	P	Bromoform	0.306	0.340	-11.1	107	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.549	4.058	-14.3	108	0.00
74	T	N-amyl acetate	1.809	2.120	-17.2	110	0.00
75	P	1,1,2,2-Tetrachloroethane	1.617	1.678	-3.8	108	0.00
76	T	1,2,3-Trichloropropane	1.514	1.616	-6.7	110	0.00
77	T	Bromobenzene	0.848	0.935	-10.3	108	0.00
78	T	n-propylbenzene	4.300	5.058	-17.6	110	0.00
79	T	2-Chlorotoluene	2.621	2.948	-12.5	108	0.00
80	T	1,3,5-Trimethylbenzene	3.006	3.576	-19.0	109	0.00
81	T	trans-1,4-Dichloro-2-butene	0.467	0.570	-22.1#	120	0.00
82	T	4-Chlorotoluene	2.984	3.461	-16.0	110	0.00
83	T	tert-Butylbenzene	2.900	3.365	-16.0	110	0.00
84	T	1,2,4-Trimethylbenzene	2.964	3.558	-20.0#	109	0.00
85	T	sec-Butylbenzene	3.750	4.520	-20.5#	111	0.00
86	T	p-Isopropyltoluene	3.051	3.725	-22.1#	111	0.00
87	T	1,3-Dichlorobenzene	1.645	1.837	-11.7	111	0.00
88	T	1,4-Dichlorobenzene	1.701	1.868	-9.8	111	0.00
89	T	n-Butylbenzene	2.805	3.581	-27.7#	116	0.00
90	T	Hexachloroethane	0.550	0.622	-13.1	113	0.00
91	T	1,2-Dichlorobenzene	1.744	1.881	-7.9	110	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.392	0.428	-9.2	105	0.00
93	T	1,2,4-Trichlorobenzene	0.963	1.167	-21.2#	113	0.00
94	T	Hexachlorobutadiene	0.429	0.474	-10.5	108	0.00
95	T	Naphthalene	3.360	4.307	-28.2#	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.980	1.158	-18.2	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	50.000	56.549	-13.1	109	0.00
3	P	Chloromethane	50.000	44.333	11.3	93	0.00
4	C	Vinyl Chloride	50.000	50.699	-1.4#	101	0.00
5	T	Bromomethane	50.000	45.630	8.7	91	0.00
6	T	Chloroethane	50.000	50.534	-1.1	102	0.00
7	T	Trichlorofluoromethane	50.000	53.582	-7.2	107	0.00
8	T	Diethyl Ether	50.000	53.583	-7.2	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.757	-5.5	104	0.00
10	T	Methyl Iodide	50.000	51.601	-3.2	96	0.00
11	T	Tert butyl alcohol	250.000	220.282	11.9	91	0.06
12	CM	1,1-Dichloroethene	50.000	53.268	-6.5#	106	0.00
13	T	Acrolein	250.000	265.412	-6.2	105	0.00
14	T	Allyl chloride	50.000	50.660	-1.3	99	0.00
15	T	Acrylonitrile	250.000	233.653	6.5	91	0.00
16	T	Acetone	250.000	372.409	-49.0#	153	0.00
17	T	Carbon Disulfide	50.000	54.959	-9.9	110	0.00
18	T	Methyl Acetate	50.000	44.593	10.8	89	0.00
19	T	Methyl tert-butyl Ether	50.000	54.279	-8.6	104	0.00
20	T	Methylene Chloride	50.000	47.375	5.3	100	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.231	-6.5	104	0.00
22	T	Diisopropyl ether	50.000	51.537	-3.1	99	0.00
23	T	Vinyl Acetate	250.000	262.262	-4.9	99	0.00
24	P	1,1-Dichloroethane	50.000	51.150	-2.3	100	0.00
25	T	2-Butanone	250.000	280.393	-12.2	108	0.00
26	T	2,2-Dichloropropane	50.000	58.182	-16.4	115	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.813	-3.6	103	0.00
28	T	Bromochloromethane	50.000	39.518	21.0#	78	0.00
29	T	Tetrahydrofuran	250.000	231.374	7.5	88	0.00
30	C	Chloroform	50.000	50.077	-0.2#	101	0.00
31	T	Cyclohexane	50.000	50.914	-1.8	104	0.00
32	T	1,1,1-Trichloroethane	50.000	51.522	-3.0	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	43.323	13.4	87	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35	S	Dibromofluoromethane	50.000	44.764	10.5	89	0.00
36	T	1,1-Dichloropropene	50.000	54.738	-9.5	105	0.00
37	T	Ethyl Acetate	50.000	47.721	4.6	93	0.00
38	T	Carbon Tetrachloride	50.000	53.213	-6.4	100	0.00
39	T	Methylcyclohexane	50.000	61.030	-22.1#	113	0.00
40	TM	Benzene	50.000	52.631	-5.3	103	0.00
41	T	Methacrylonitrile	50.000	50.247	-0.5	93	0.00
42	TM	1,2-Dichloroethane	50.000	52.765	-5.5	104	0.00
43	T	Isopropyl Acetate	50.000	51.858	-3.7	100	0.00
44	TM	Trichloroethene	50.000	51.773	-3.5	104	0.00
45	C	1,2-Dichloropropane	50.000	51.456	-2.9#	97	0.00
46	T	Dibromomethane	50.000	52.194	-4.4	101	0.00
47	T	Bromodichloromethane	50.000	52.141	-4.3	100	0.00
48	T	Methyl methacrylate	50.000	52.747	-5.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1000.252	-0.0	91	0.00
50	S	Toluene-d8	50.000	45.941	8.1	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	251.658	-0.7	95	0.00
52	CM	Toluene	50.000	55.224	-10.4#	105	0.00
53	T	t-1,3-Dichloropropene	50.000	58.554	-17.1	109	0.00
54	T	cis-1,3-Dichloropropene	50.000	57.619	-15.2	108	0.00
55	T	1,1,2-Trichloroethane	50.000	52.056	-4.1	101	0.00
56	T	Ethyl methacrylate	50.000	52.036	-4.1	109	0.00
57	T	1,3-Dichloropropane	50.000	52.191	-4.4	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	302.927	-21.2#	141	0.00
59	T	2-Hexanone	250.000	278.611	-11.4	106	0.00
60	T	Dibromochloromethane	50.000	53.751	-7.5	103	0.00
61	T	1,2-Dibromoethane	50.000	53.735	-7.5	104	0.00
62	S	4-Bromofluorobenzene	50.000	48.871	2.3	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64	T	Tetrachloroethene	50.000	53.894	-7.8	102	0.00
65	PM	Chlorobenzene	50.000	54.521	-9.0	106	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.536	-7.1	103	0.00
67	C	Ethyl Benzene	50.000	57.889	-15.8#	107	0.00
68	T	m/p-Xylenes	100.000	115.833	-15.8	106	0.00
69	T	o-Xylene	50.000	58.639	-17.3	107	0.00
70	T	Styrene	50.000	53.403	-6.8	107	0.00
71	P	Bromoform	50.000	55.531	-11.1	107	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	57.173	-14.3	108	0.00
74	T	N-amyl acetate	50.000	58.615	-17.2	110	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.884	-3.8	108	0.00
76	T	1,2,3-Trichloropropane	50.000	53.376	-6.8	110	0.00
77	T	Bromobenzene	50.000	55.139	-10.3	108	0.00
78	T	n-propylbenzene	50.000	58.815	-17.6	110	0.00
79	T	2-Chlorotoluene	50.000	56.249	-12.5	108	0.00
80	T	1,3,5-Trimethylbenzene	50.000	59.473	-18.9	109	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	61.009	-22.0#	120	0.00
82	T	4-Chlorotoluene	50.000	57.998	-16.0	110	0.00
83	T	tert-Butylbenzene	50.000	58.022	-16.0	110	0.00
84	T	1,2,4-Trimethylbenzene	50.000	60.024	-20.0#	109	0.00
85	T	sec-Butylbenzene	50.000	60.274	-20.5#	111	0.00
86	T	p-Isopropyltoluene	50.000	61.053	-22.1#	111	0.00
87	T	1,3-Dichlorobenzene	50.000	55.828	-11.7	111	0.00
88	T	1,4-Dichlorobenzene	50.000	54.907	-9.8	111	0.00
89	T	n-Butylbenzene	50.000	56.797	-13.6	116	0.00
90	T	Hexachloroethane	50.000	56.616	-13.2	113	0.00
91	T	1,2-Dichlorobenzene	50.000	53.950	-7.9	110	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.608	-9.2	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	60.572	-21.1#	113	0.00
94	T	Hexachlorobutadiene	50.000	55.342	-10.7	108	0.00
95	T	Naphthalene	50.000	56.034	-12.1	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044885.D
Acq On : 27 Sep 2021 12:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 16:47:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	59.088	-18.2	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/27/2021 22:00

Lab File ID: VU044905.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.599	0.696		16.19	20
Chloromethane	0.909	0.842	0.1	-7.37	20
Vinyl Chloride	0.848	0.886		4.48	20
Bromomethane	0.450	0.364		-19.11	20
Chloroethane	0.659	0.552		-16.24	20
Trichlorofluoromethane	1.042	1.182		13.44	20
1,1,2-Trichlorotrifluoroethane	0.608	0.679		11.68	20
1,1-Dichloroethene	0.602	0.680		12.96	20
Acetone	0.492	0.462		-6.1	20
Carbon Disulfide	1.694	1.931		13.99	20
Methyl tert-butyl Ether	2.248	2.639		17.39	20
Methyl Acetate	1.644	1.624		-1.22	20
Methylene Chloride	0.797	0.831		4.27	20
trans-1,2-Dichloroethene	0.645	0.738		14.42	20
1,1-Dichloroethane	1.340	1.475	0.1	10.07	20
Cyclohexane	1.253	1.362		8.7	20
2-Butanone	0.747	0.754		0.94	20
Carbon Tetrachloride	0.474	0.517		9.07	20
cis-1,2-Dichloroethene	0.784	0.868		10.71	20
Bromochloromethane	0.637	0.527		-17.27	20
Chloroform	1.347	1.469		9.06	20
1,1,1-Trichloroethane	1.089	1.229		12.86	20
Methylcyclohexane	0.600	0.731		21.83	20
Benzene	1.617	1.746		7.98	20
1,2-Dichloroethane	0.636	0.683		7.39	20
Trichloroethene	0.389	0.409		5.14	20
1,2-Dichloropropane	0.438	0.460		5.02	20
Bromodichloromethane	0.572	0.607		6.12	20
4-Methyl-2-Pentanone	0.776	0.852		9.79	20
Toluene	0.967	1.089		12.62	20
t-1,3-Dichloropropene	0.596	0.693		16.27	20
cis-1,3-Dichloropropene	0.646	0.735		13.78	20
1,1,2-Trichloroethane	0.413	0.447		8.23	20
2-Hexanone	0.623	0.702		12.68	20
Dibromochloromethane	0.396	0.438		10.61	20
1,2-Dibromoethane	0.434	0.483		11.29	20
Tetrachloroethene	0.339	0.377		11.21	20
Chlorobenzene	1.038	1.163	0.3	12.04	20
Ethyl Benzene	1.853	2.208		19.16	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/27/2021 22:00

Lab File ID: VU044905.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.709	0.840		18.48	20
o-Xylene	0.685	0.843		23.07	20
Styrene	1.150	1.432		24.52	20
Bromoform	0.306	0.367	0.1	19.93	20
Isopropylbenzene	3.549	4.080		14.96	20
1,1,2,2-Tetrachloroethane	1.617	1.795	0.3	11.01	20
1,3-Dichlorobenzene	1.645	1.879		14.23	20
1,4-Dichlorobenzene	1.701	1.924		13.11	20
1,2-Dichlorobenzene	1.744	1.956		12.16	20
1,2-Dibromo-3-Chloropropane	0.392	0.440		12.24	20
1,2,4-Trichlorobenzene	0.963	1.121		16.41	20
1,2,3-Trichlorobenzene	0.980	1.130		15.31	20
1,2-Dichloroethane-d4	0.873	0.889		1.83	20
Dibromofluoromethane	0.343	0.349		1.75	20
Toluene-d8	1.295	1.321		2.01	20
4-Bromofluorobenzene	0.481	0.543		12.89	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:39 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	141418	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	259974	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	248033	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	133437	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	125670	50.917	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.840%			
35) Dibromofluoromethane	5.292	113	90751	50.885	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.760%			
50) Toluene-d8	7.903	98	343392	50.981	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.960%			
62) 4-Bromofluorobenzene	10.636	95	141105	56.401	ug/l	0.00
Spiked Amount 50.000			Recovery = 112.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	98383	58.088	ug/l	99
3) Chloromethane	1.517	50	119122	46.345	ug/l	100
4) Vinyl Chloride	1.607	62	125276	52.222	ug/l	100
5) Bromomethane	1.838	94	51470	43.529	ug/l	99
6) Chloroethane	1.909	64	78092	48.499	ug/l	98
7) Trichlorofluoromethane	2.125	101	167092	56.717	ug/l	100
8) Diethyl Ether	2.379	74	78414	58.143	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.575	101	96050	55.828	ug/l	98
10) Methyl Iodide	2.719	142	104026	55.643	ug/l	97
11) Tert butyl alcohol	3.266	59	186579m	259.001	ug/l	
12) 1,1-Dichloroethene	2.575	96	96232	56.517	ug/l	97
13) Acrolein	2.488	56	50424	259.187	ug/l	100
14) Allyl chloride	2.922	41	174967	52.941	ug/l	96
15) Acrylonitrile	3.321	53	379918	252.473	ug/l	99
16) Acetone	2.636	43	326468	234.499	ug/l	100
17) Carbon Disulfide	2.790	76	273101	57.014	ug/l	100
18) Methyl Acetate	2.951	43	229686	49.383	ug/l	98
19) Methyl tert-butyl Ether	3.369	73	373222	58.698	ug/l	98
20) Methylene Chloride	3.044	84	117571	52.169	ug/l	97
21) trans-1,2-Dichloroethene	3.353	96	104353	57.239	ug/l	95
22) Diisopropyl ether	3.999	45	359459	55.048	ug/l	95
23) Vinyl Acetate	3.957	43	1503788	280.822	ug/l	98
24) 1,1-Dichloroethane	3.871	63	208523	55.016	ug/l	99
25) 2-Butanone	4.710	43	533343	252.484	ug/l	98
26) 2,2-Dichloropropane	4.668	77	154129	54.225	ug/l	97
27) cis-1,2-Dichloroethene	4.668	96	122736	55.354	ug/l	98
28) Bromochloromethane	4.977	49	74482	41.353	ug/l	95
29) Tetrahydrofuran	5.054	42	335317	252.318	ug/l	95
30) Chloroform	5.092	83	207701	54.500	ug/l	98
31) Cyclohexane	5.388	56	192641	54.365	ug/l	95
32) 1,1,1-Trichloroethane	5.317	97	173765	56.431	ug/l	98
36) 1,1-Dichloropropene	5.530	75	153660	55.707	ug/l	99
37) Ethyl Acetate	4.806	43	198552	49.058	ug/l	98
38) Carbon Tetrachloride	5.526	117	134355	54.483	ug/l	98
39) Methylcyclohexane	6.764	83	190018	60.908	ug/l	96
40) Benzene	5.777	78	453833	53.965	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:39 PM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.980	41	104683	51.817	ug/l		96
42) 1,2-Dichloroethane	5.797	62	177454	53.635	ug/l		99
43) Isopropyl Acetate	5.919	43	303042	53.518	ug/l		98
44) Trichloroethene	6.546	130	106363	52.624	ug/l		99
45) 1,2-Dichloropropane	6.793	63	119668	52.578	ug/l		97
46) Dibromomethane	6.922	93	81625	54.123	ug/l		99
47) Bromodichloromethane	7.108	83	157879	53.071	ug/l		99
48) Methyl methacrylate	6.964	41	146066	54.652	ug/l		95
49) 1,4-Dioxane	6.983	88	77671	1137.110	ug/l		95
51) 4-Methyl-2-Pentanone	7.803	43	1107029	274.316	ug/l		98
52) Toluene	7.973	92	283116	56.308	ug/l		99
53) t-1,3-Dichloropropene	8.214	75	180166	58.131	ug/l		99
54) cis-1,3-Dichloropropene	7.610	75	191175	56.957	ug/l		100
55) 1,1,2-Trichloroethane	8.404	97	116330	54.115	ug/l		98
56) Ethyl methacrylate	8.340	69	212306	55.240	ug/l		99
57) 1,3-Dichloropropane	8.578	76	208974	54.594	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.468	63	326328	344.538	ug/l		98
59) 2-Hexanone	8.694	43	912379	281.658	ug/l		98
60) Dibromochloromethane	8.816	129	113953	55.356	ug/l		99
61) 1,2-Dibromoethane	8.928	107	125471	55.588	ug/l		100
64) Tetrachloroethene	8.555	164	93449	55.584	ug/l		97
65) Chlorobenzene	9.449	112	288446	56.019	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	102028	55.554	ug/l		99
67) Ethyl Benzene	9.574	91	547695	59.594	ug/l		100
68) m/p-Xylenes	9.697	106	416909	118.606	ug/l		98
69) o-Xylene	10.102	106	209063	61.508	ug/l		99
70) Styrene	10.118	104	355149	55.785	ug/l		99
71) Bromoform	10.298	173	91083	59.938	ug/l	#	100
73) Isopropylbenzene	10.488	105	544377	57.480	ug/l		100
74) N-amyl acetate	10.324	43	296692	61.463	ug/l		98
75) 1,1,2,2-Tetrachloroethane	10.790	83	239458	55.498	ug/l		99
76) 1,2,3-Trichloropropane	10.832	75	231173m	57.211	ug/l		
77) Bromobenzene	10.787	156	127478	56.340	ug/l		98
78) n-propylbenzene	10.909	91	669996	58.384	ug/l		99
79) 2-Chlorotoluene	10.989	91	403777	57.732	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	477429	59.513	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.552	75	76171	61.067	ug/l		99
82) 4-Chlorotoluene	11.099	91	469852	59.008	ug/l		100
83) tert-Butylbenzene	11.423	119	463095	59.840	ug/l		99
84) 1,2,4-Trimethylbenzene	11.472	105	482749	61.039	ug/l		100
85) sec-Butylbenzene	11.648	105	605927	60.549	ug/l		100
86) p-Isopropyltoluene	11.796	119	503815	61.886	ug/l		99
87) 1,3-Dichlorobenzene	11.748	146	250738	57.104	ug/l		100
88) 1,4-Dichlorobenzene	11.841	146	256725	56.537	ug/l		99
89) n-Butylbenzene	12.211	91	467664	55.622	ug/l		99
90) Hexachloroethane	12.481	117	85919	58.569	ug/l		98
91) 1,2-Dichlorobenzene	12.217	146	260994	56.089	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.999	75	58768	56.171	ug/l		97
93) 1,2,4-Trichlorobenzene	13.844	180	149645	58.200	ug/l		99
94) Hexachlorobutadiene	14.024	225	60624	53.000	ug/l		98
95) Naphthalene	14.089	128	575143	56.078	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	150718	57.645	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:39 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

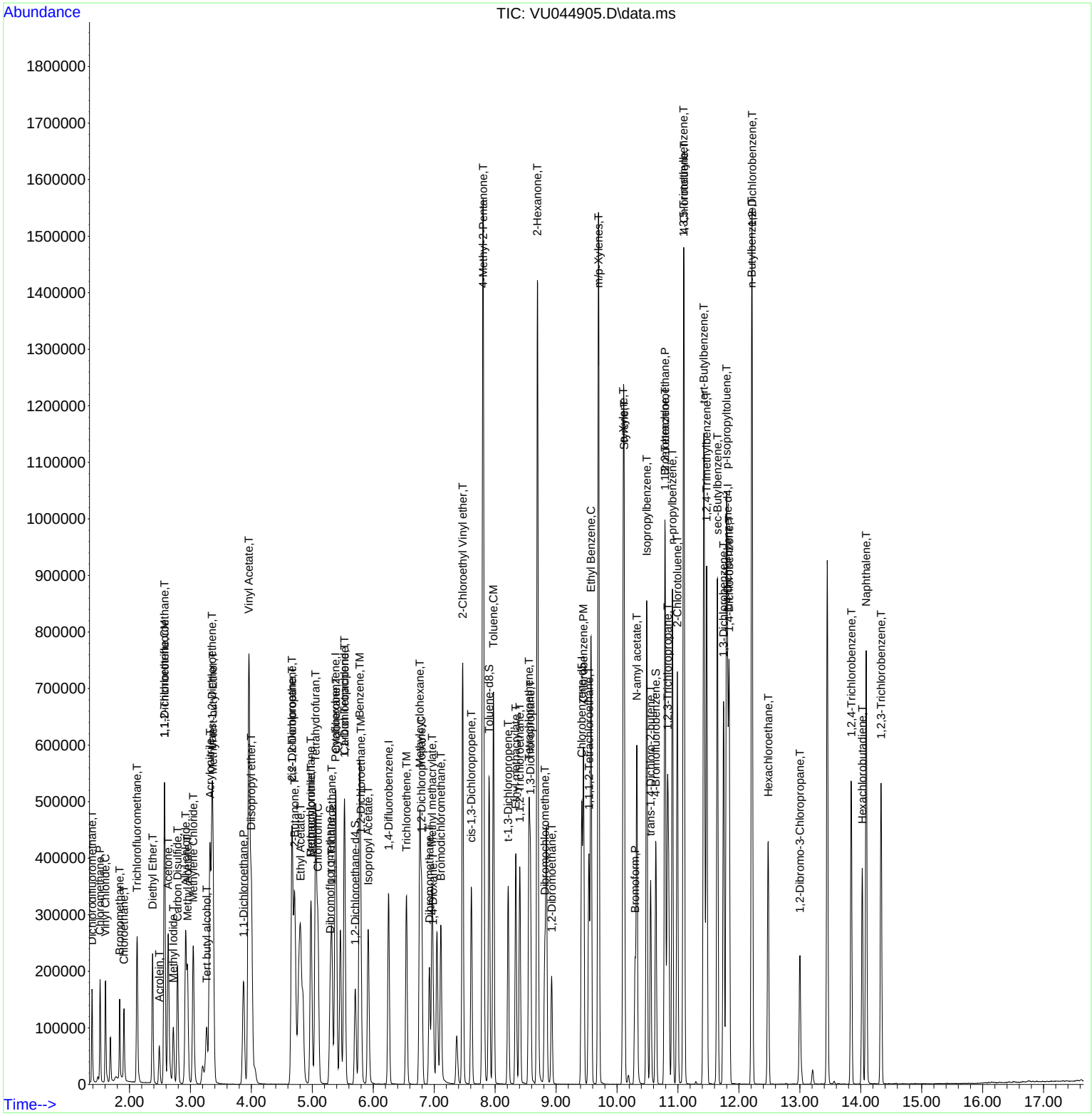
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

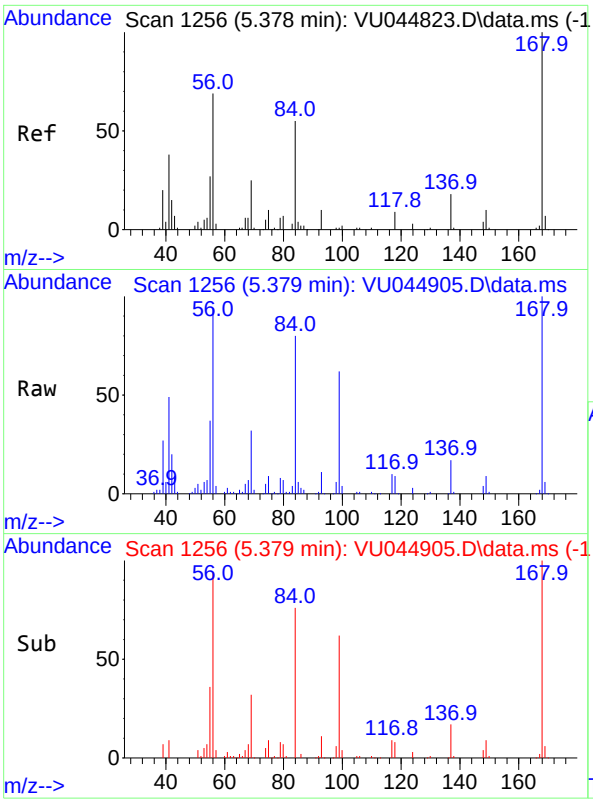
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:39 PM



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

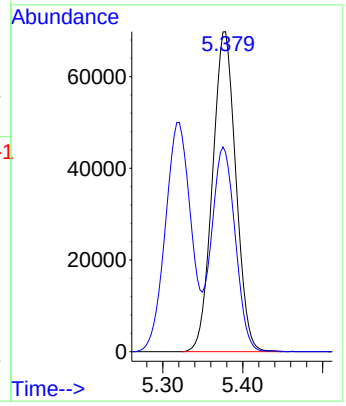
Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:39 PM

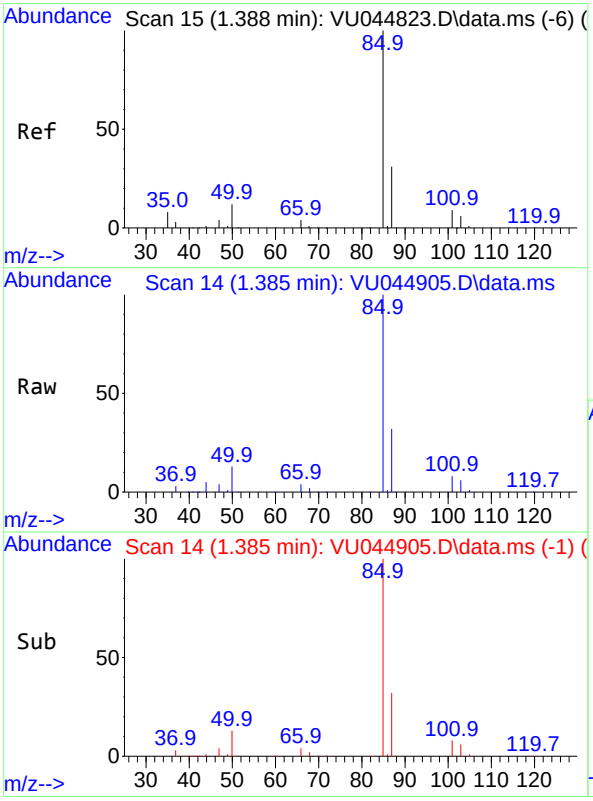


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:168 Resp: 141418

Ion	Ratio	Lower	Upper
168	100		
99	62.1	51.4	77.0

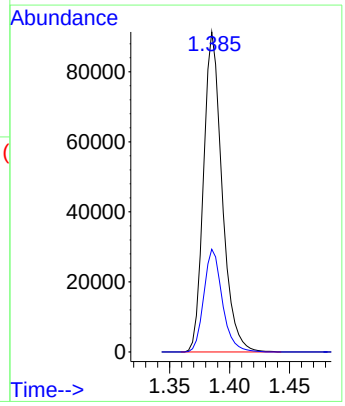




#2
Dichlorodifluoromethane
Concen: 58.088 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 85 Resp: 98383

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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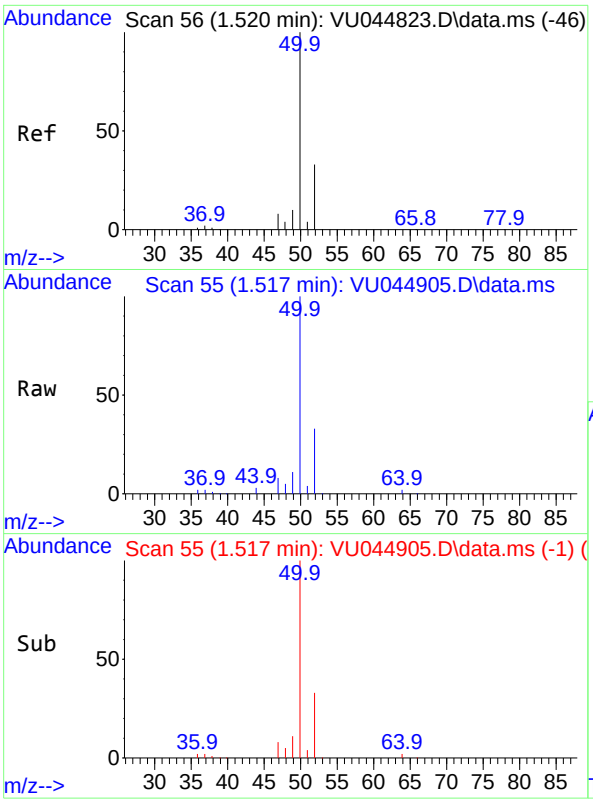
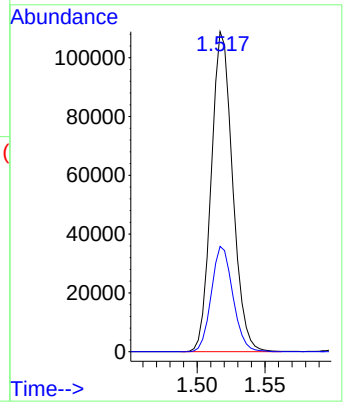
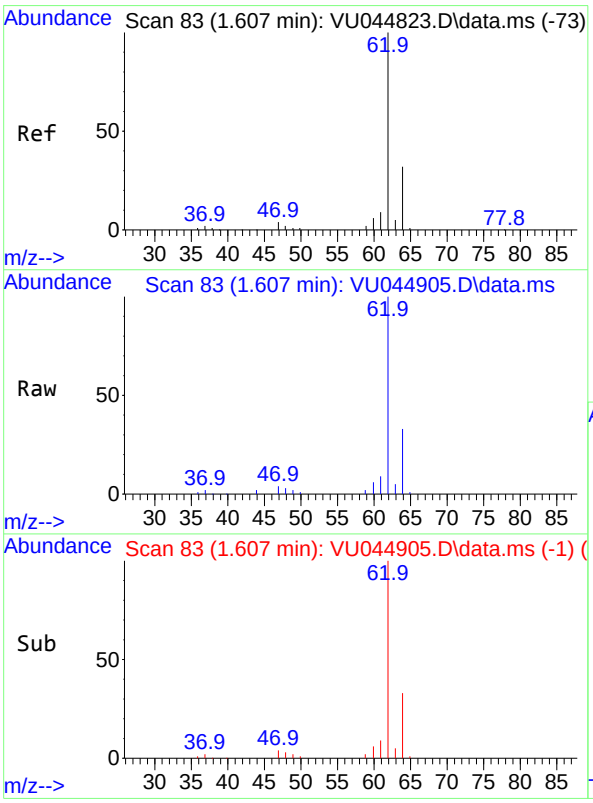


#3
Chloromethane
Concen: 46.345 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 50 Resp: 119122

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.3	39.5

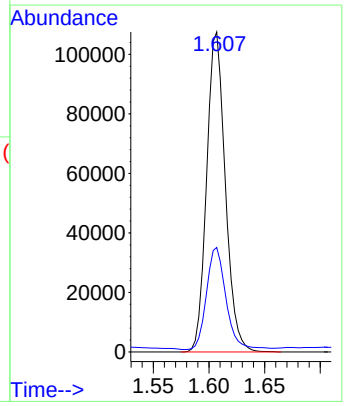




#4
Vinyl Chloride
Concen: 52.222 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 62 Resp: 125276

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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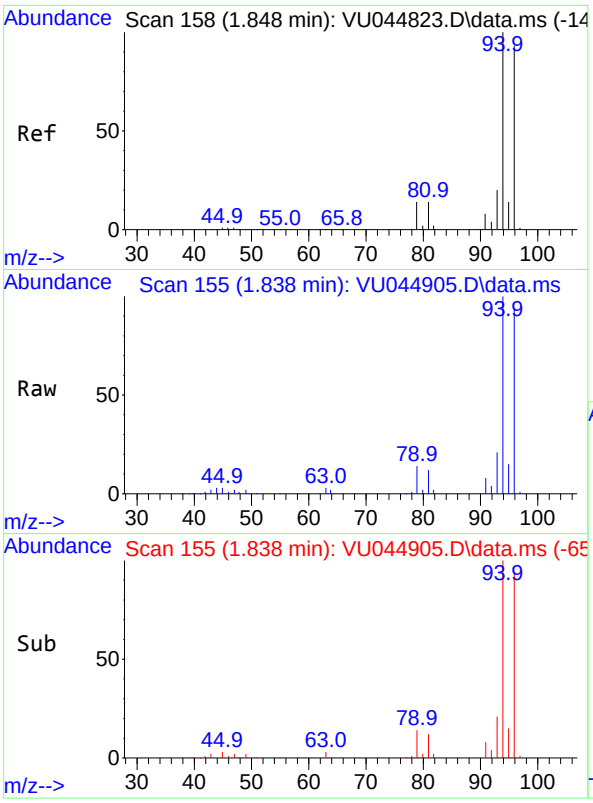
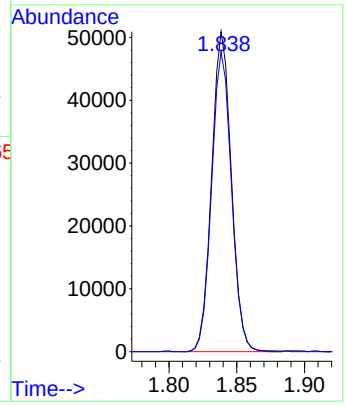
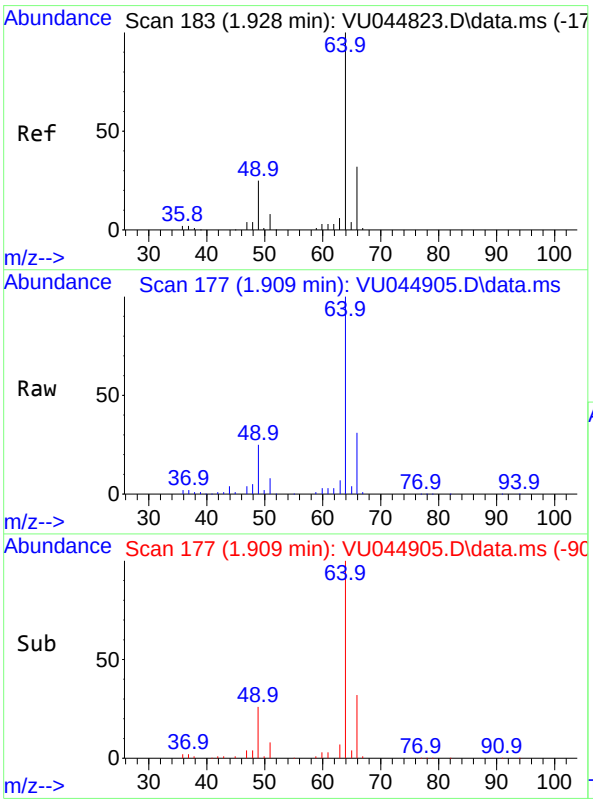


#5
Bromomethane
Concen: 43.529 ug/l
RT: 1.838 min Scan# 155
Delta R.T. -0.010 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 94 Resp: 51470

Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.5	111.7

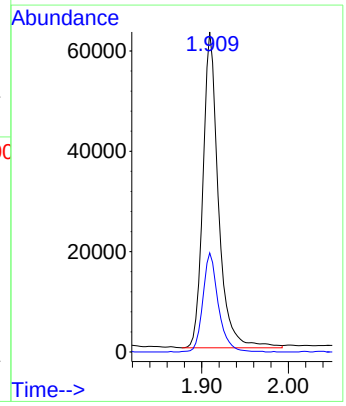




#6
Chloroethane
Concen: 48.499 ug/l
RT: 1.909 min Scan# 177
Delta R.T. -0.019 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 64 Resp: 78092

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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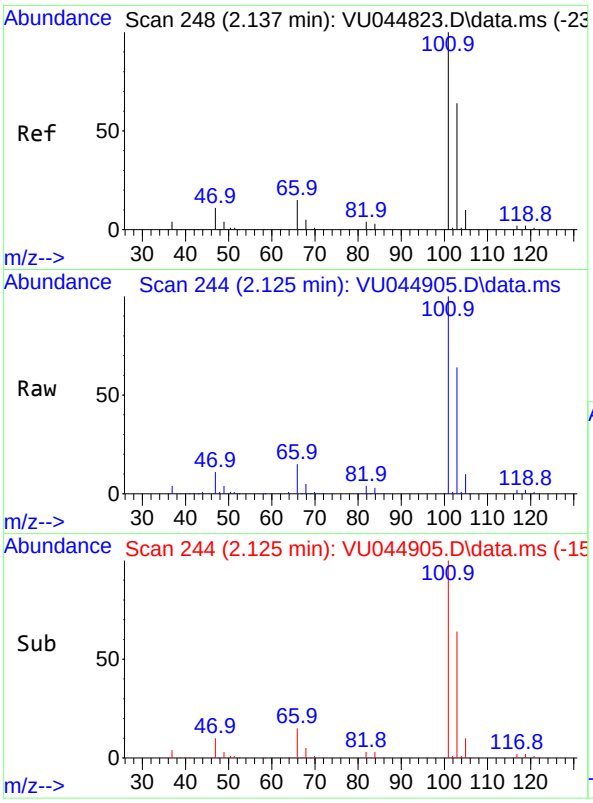
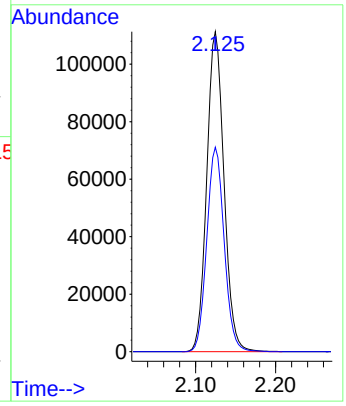
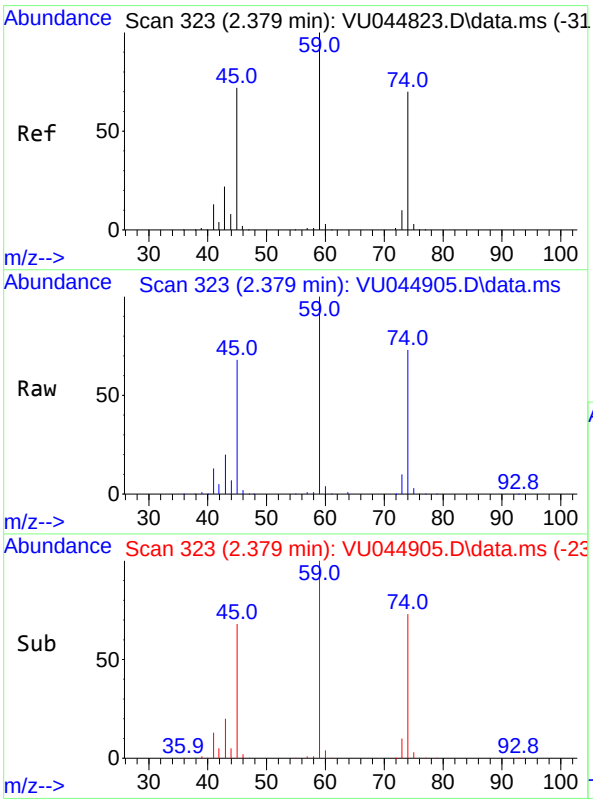


#7
Trichlorofluoromethane
Concen: 56.717 ug/l
RT: 2.125 min Scan# 244
Delta R.T. -0.013 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:101 Resp: 167092

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.2	76.8

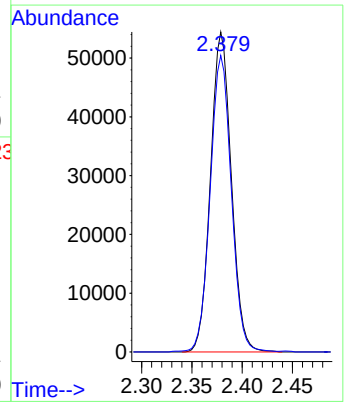




#8
Diethyl Ether
Concen: 58.143 ug/l
RT: 2.379 min Scan# 323
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 74 Resp: 78414

Ion	Ratio	Lower	Upper
74	100		
45	94.0	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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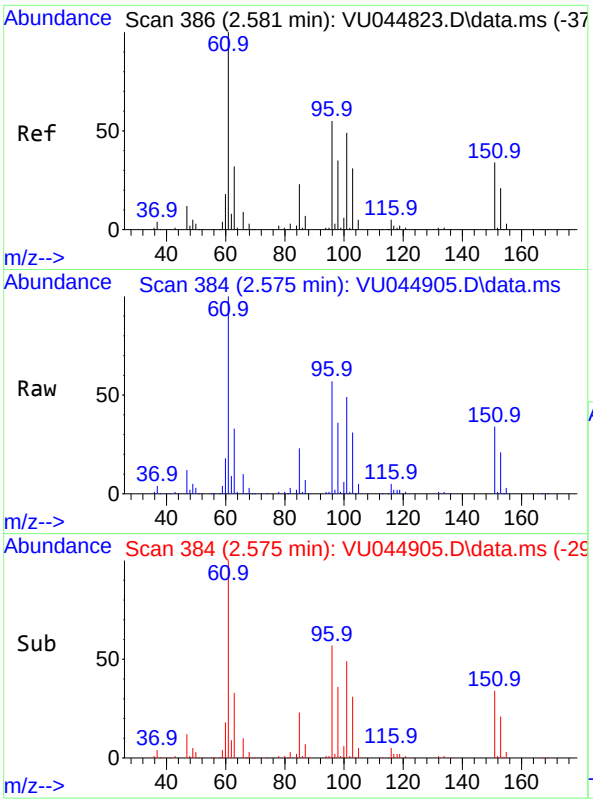
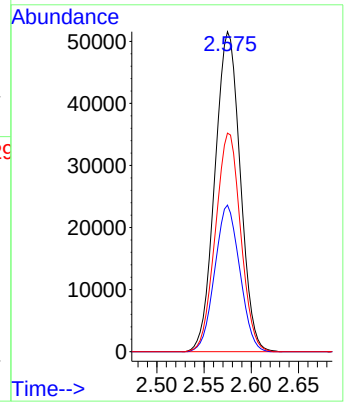
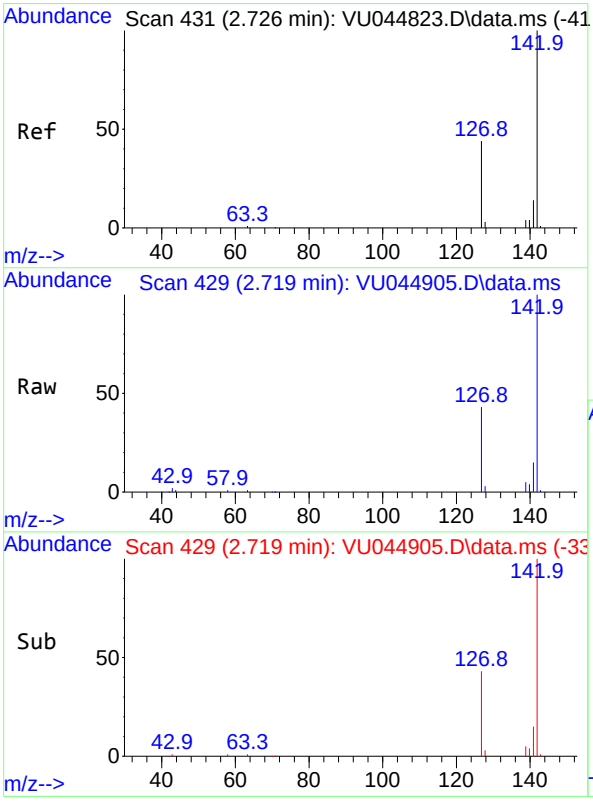


#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.828 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:101 Resp: 96050

Ion	Ratio	Lower	Upper
101	100		
85	45.3	37.2	55.8
151	68.2	55.8	83.8

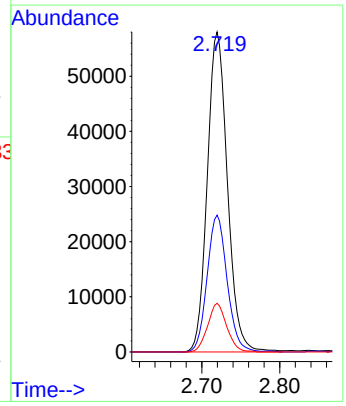




#10
Methyl Iodide
Concen: 55.643 ug/l
RT: 2.719 min Scan# 429
Delta R.T. -0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:142 Resp: 104026

Ion	Ratio	Lower	Upper
142	100		
127	42.5	35.6	53.4
141	14.4	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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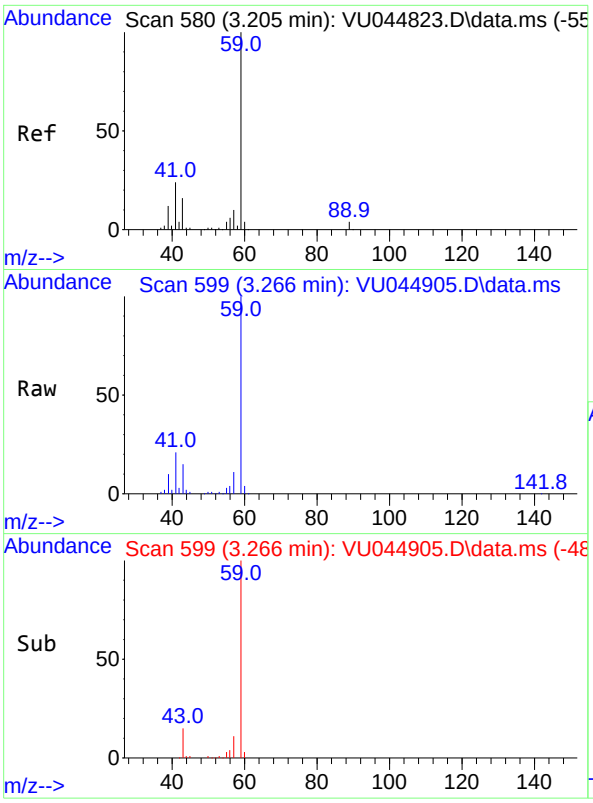
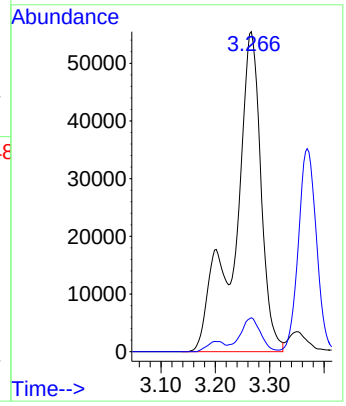
9/28/2021 1:33:39 PM

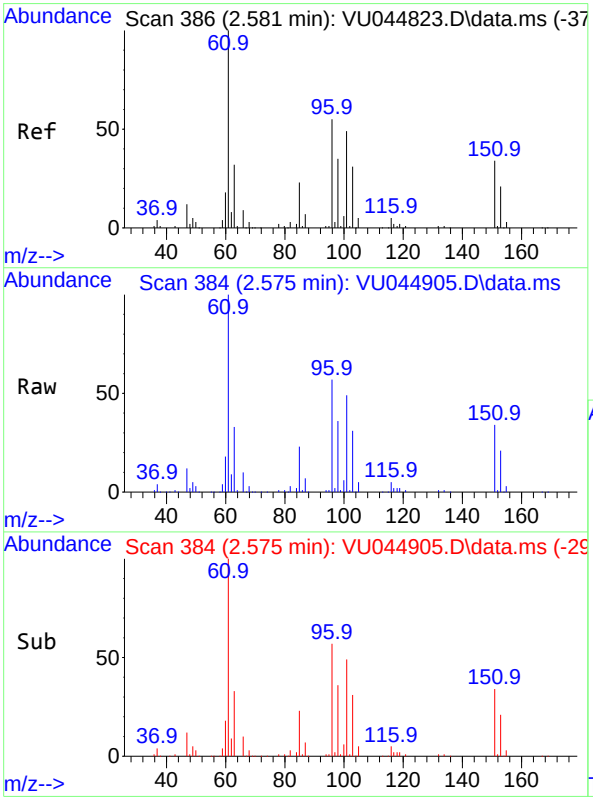


#11
Tert butyl alcohol
Concen: 259.001 ug/l m
RT: 3.266 min Scan# 599
Delta R.T. 0.061 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 59 Resp: 186579

Ion	Ratio	Lower	Upper
59	100		
57	2.1	8.3	12.5#

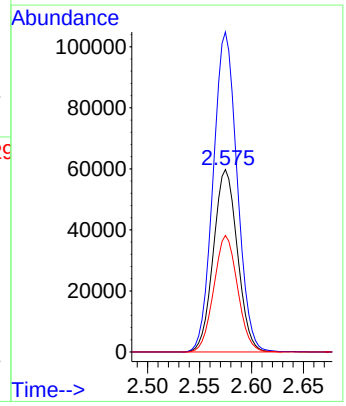




#12
1,1-Dichloroethene
Concen: 56.517 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 96 Resp: 96232

Ion	Ratio	Lower	Upper
96	100		
61	175.5	145.4	218.0
98	63.9	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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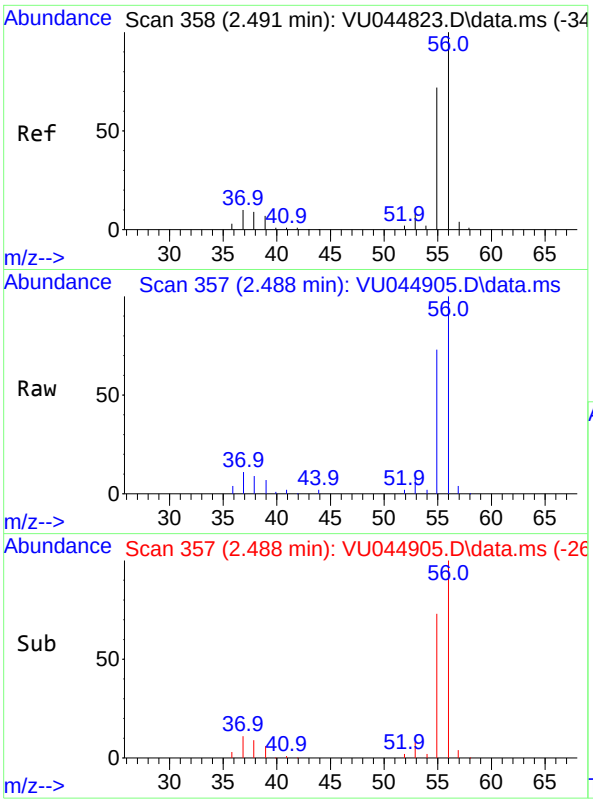
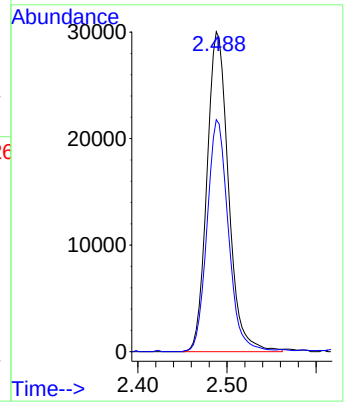
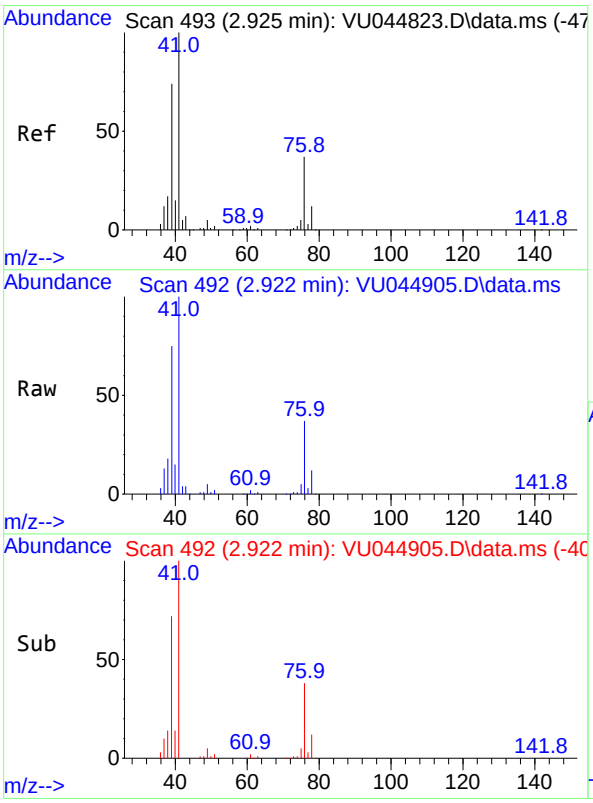


#13
Acrolein
Concen: 259.187 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 56 Resp: 50424

Ion	Ratio	Lower	Upper
56	100		
55	71.8	57.4	86.0

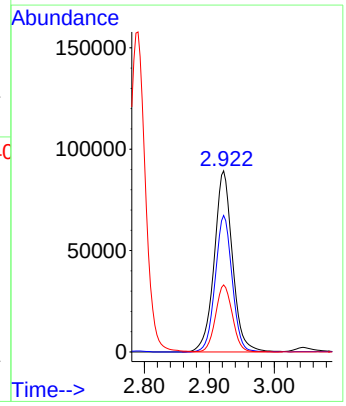




#14
Allyl chloride
Concen: 52.941 ug/l
RT: 2.922 min Scan# 492
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 41 Resp: 174967

Ion	Ratio	Lower	Upper
41	100		
39	69.7	53.0	79.6
76	33.4	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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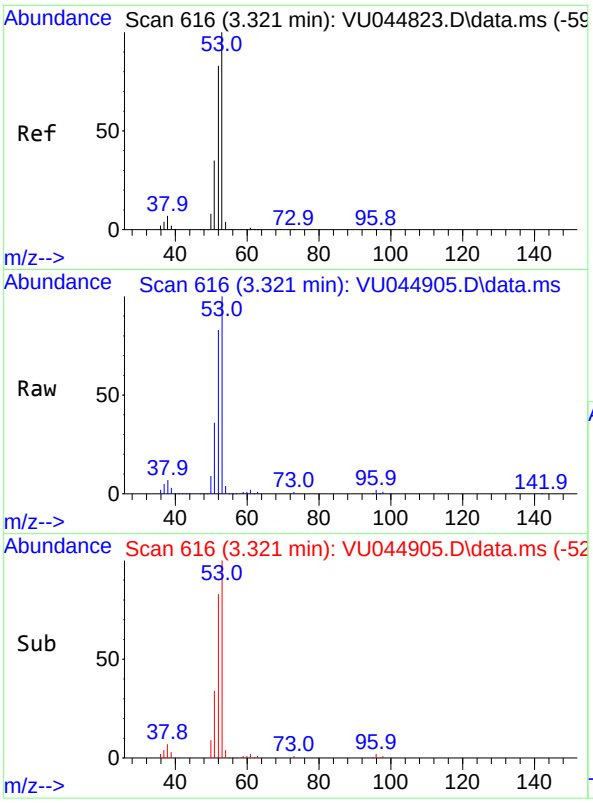
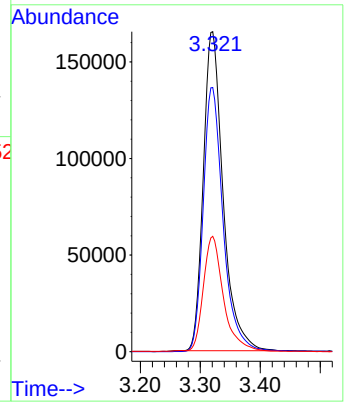
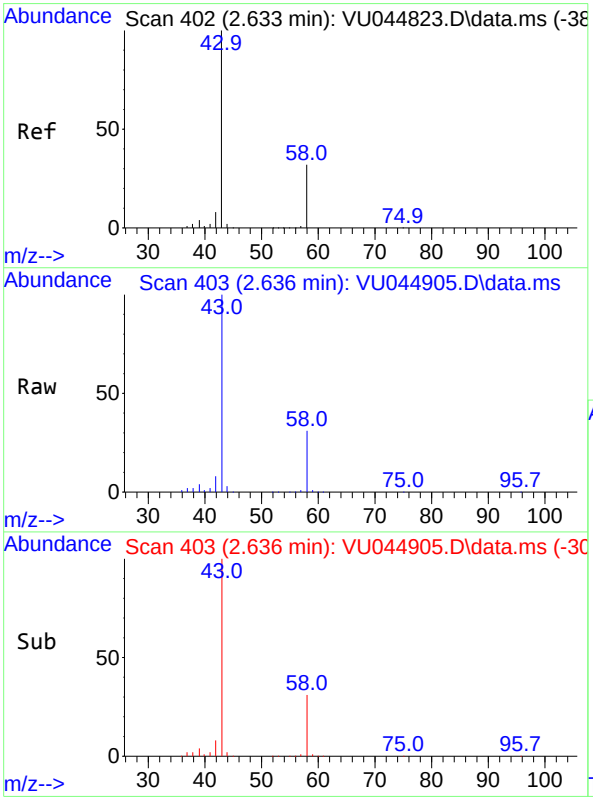


#15
Acrylonitrile
Concen: 252.473 ug/l
RT: 3.321 min Scan# 616
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 53 Resp: 379918

Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.0	99.0
51	36.6	28.6	42.8

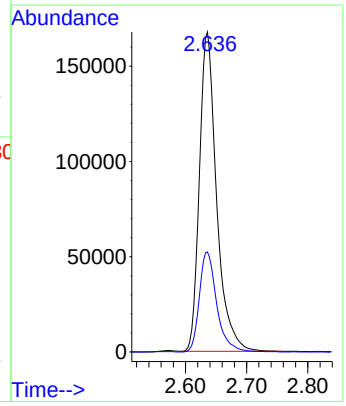




#16
Acetone
Concen: 234.499 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 326468

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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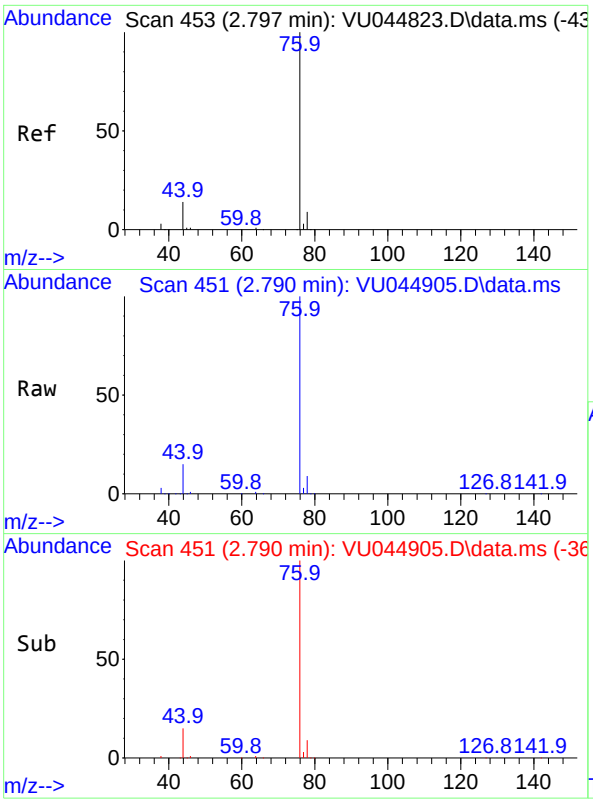
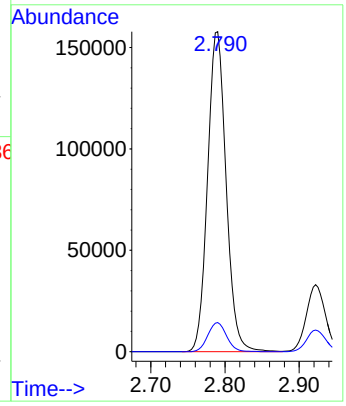
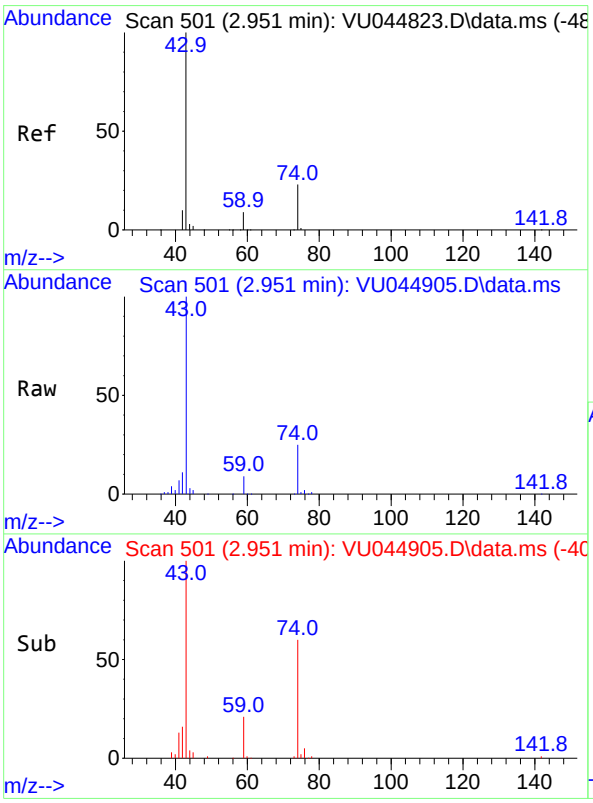


#17
Carbon Disulfide
Concen: 57.014 ug/l
RT: 2.790 min Scan# 451
Delta R.T. -0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 76 Resp: 273101

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

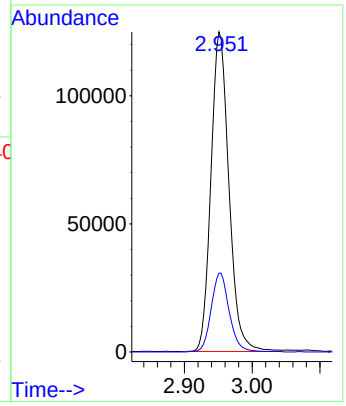




#18
Methyl Acetate
Concen: 49.383 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 229686

Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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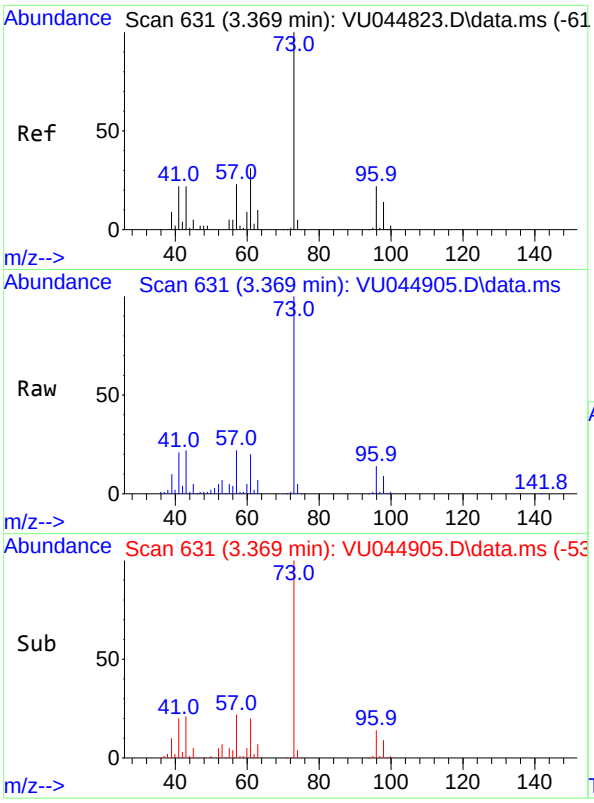
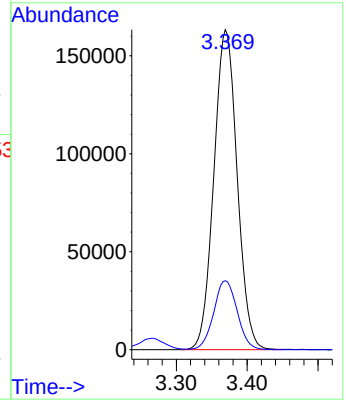
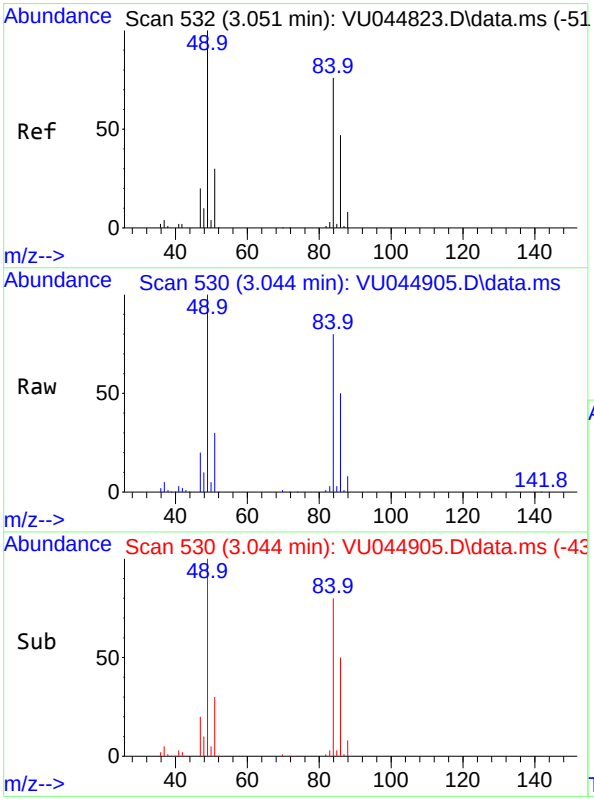


#19
Methyl tert-butyl Ether
Concen: 58.698 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 73 Resp: 373222

Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.2	27.2

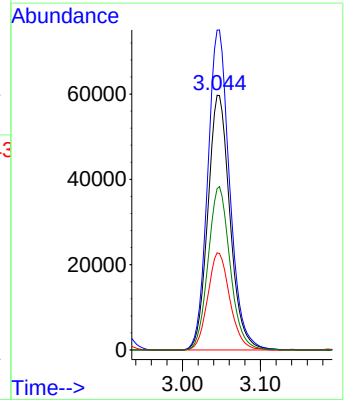




#20
Methylene Chloride
Concen: 52.169 ug/l
RT: 3.044 min Scan# 530
Delta R.T. -0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 84 Resp: 117571

Ion	Ratio	Lower	Upper
84	100		
49	125.6	104.9	157.3
51	38.1	31.8	47.8
86	63.3	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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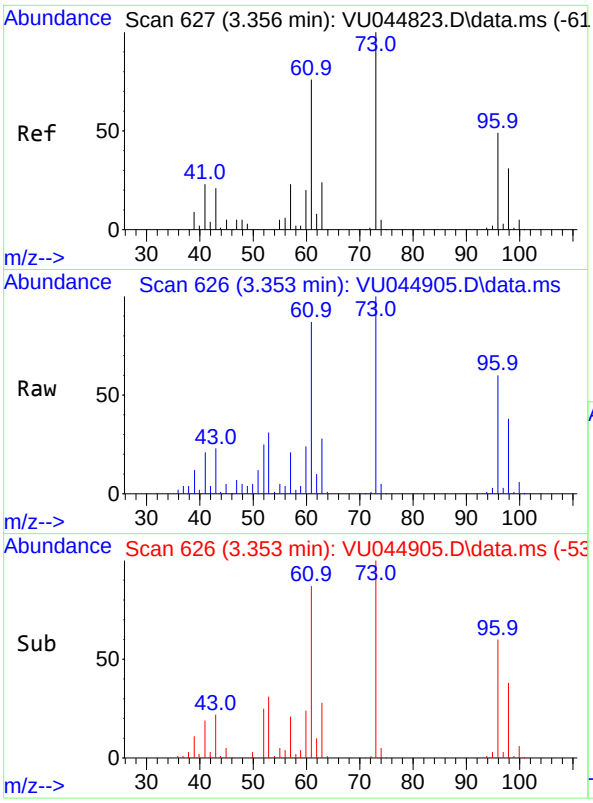
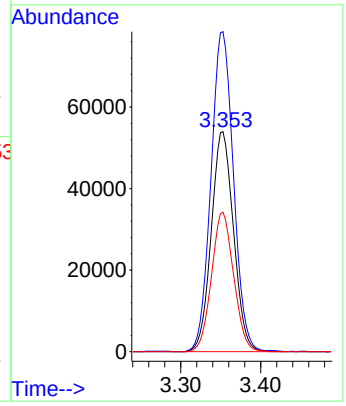
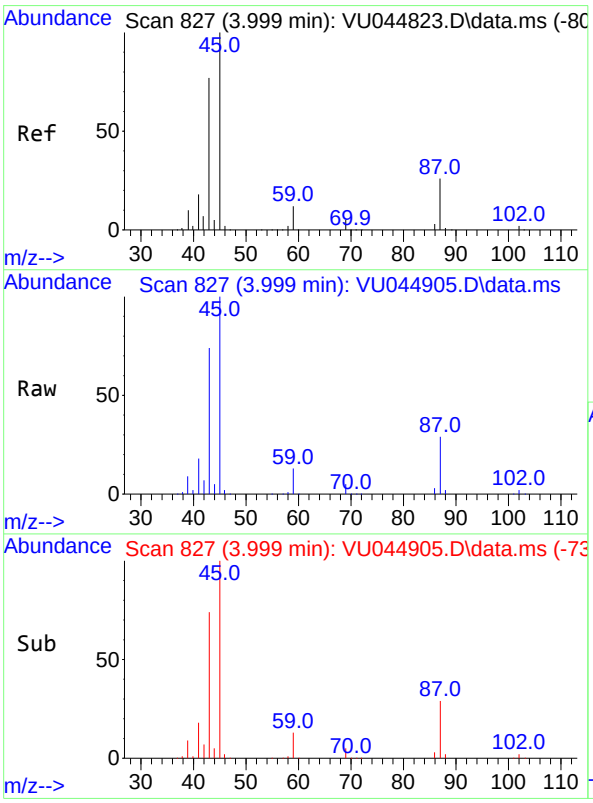


#21
trans-1,2-Dichloroethene
Concen: 57.239 ug/l
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 96 Resp: 104353

Ion	Ratio	Lower	Upper
96	100		
61	145.4	123.2	184.8
98	63.4	51.0	76.6

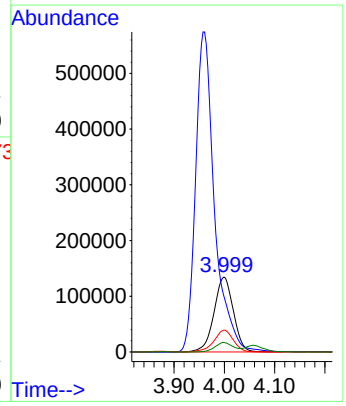




#22
Diisopropyl ether
Concen: 55.048 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 45 Resp: 359459

Ion	Ratio	Lower	Upper
45	100		
43	73.4	62.3	93.5
87	29.2	21.0	31.4
59	12.6	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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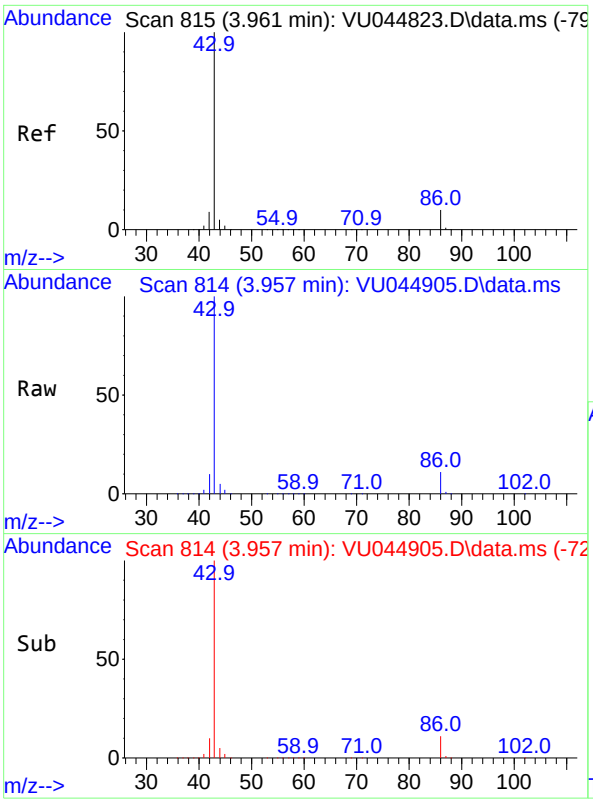
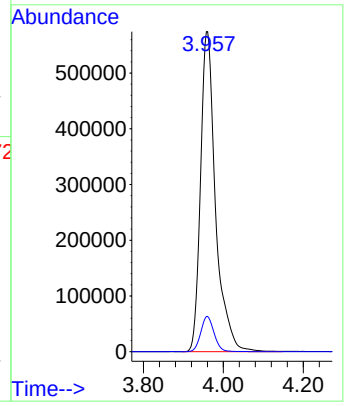
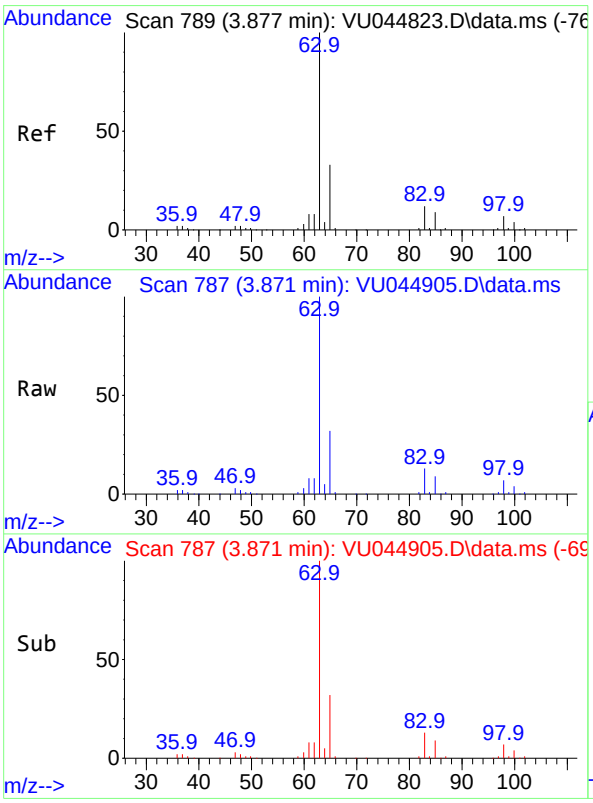


#23
Vinyl Acetate
Concen: 280.822 ug/l
RT: 3.957 min Scan# 814
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 1503788

Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.2	12.4

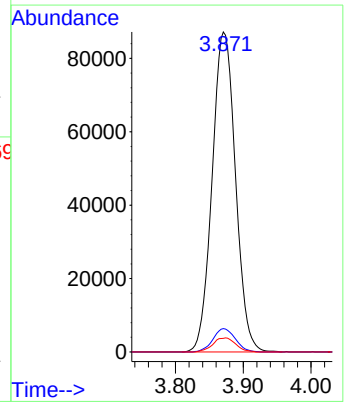




#24
1,1-Dichloroethane
Concen: 55.016 ug/l
RT: 3.871 min Scan# 787
Delta R.T. -0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 63 Resp: 208523

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.5	10.4
100	4.2	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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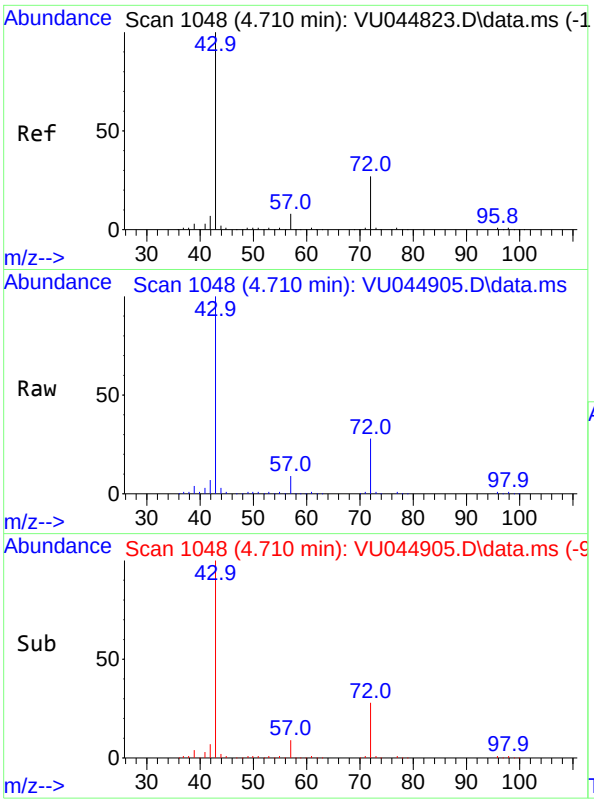
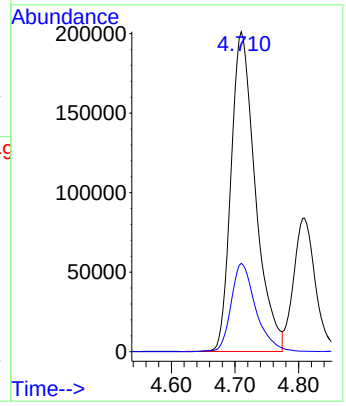
9/28/2021 1:33:39 PM

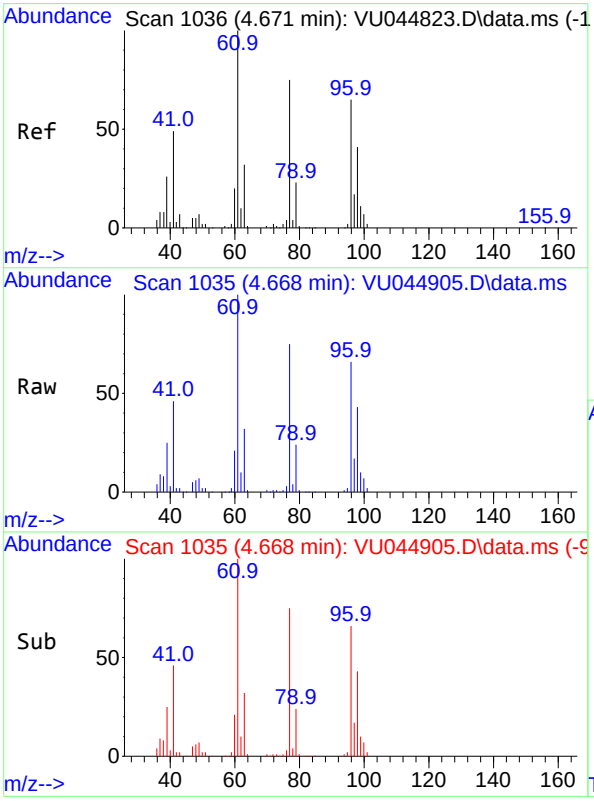


#25
2-Butanone
Concen: 252.484 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 533343

Ion	Ratio	Lower	Upper
43	100		
72	27.6	21.3	31.9

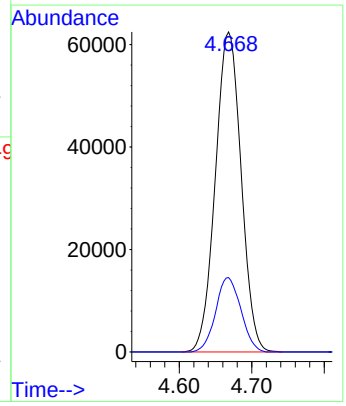




#26
2,2-Dichloropropane
Concen: 54.225 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 77 Resp: 154129

Ion	Ratio	Lower	Upper
77	100		
97	22.8	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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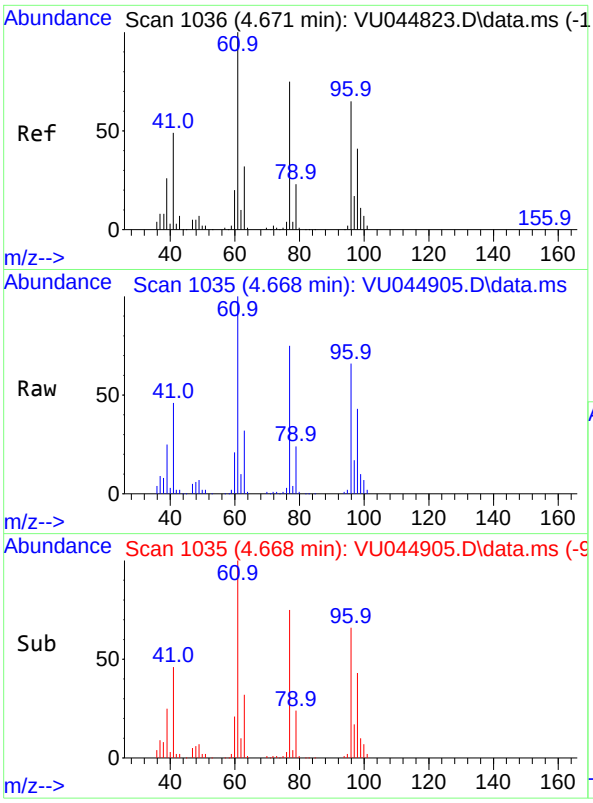
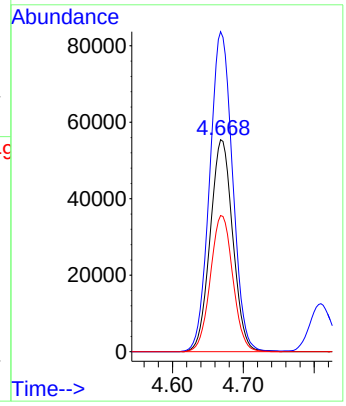
9/28/2021 1:33:39 PM

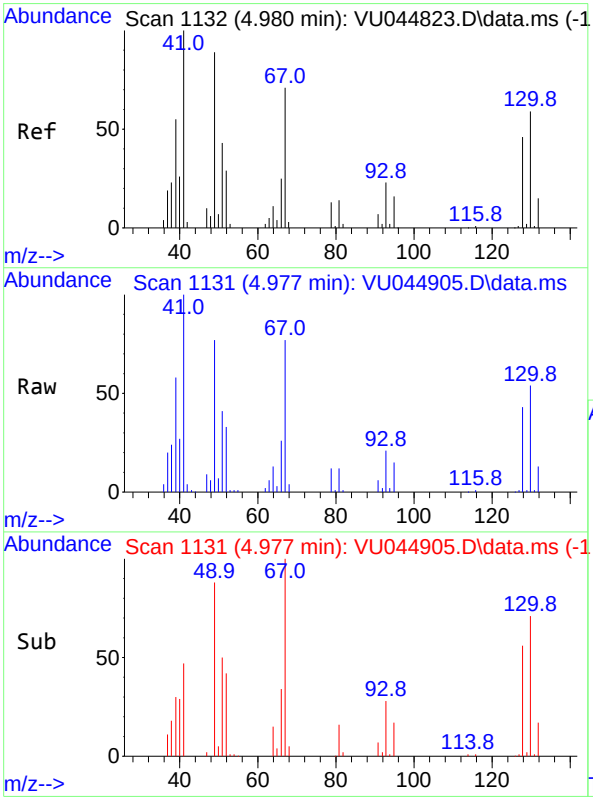


#27
cis-1,2-Dichloroethene
Concen: 55.354 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 96 Resp: 122736

Ion	Ratio	Lower	Upper
96	100		
61	153.1	0.0	313.4
98	63.9	0.0	127.0

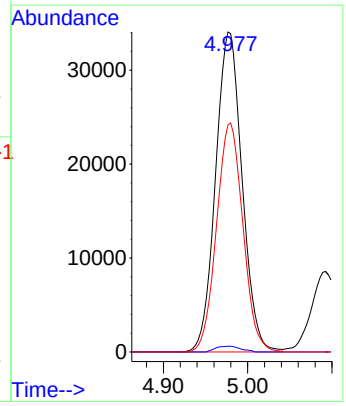




#28
Bromochloromethane
Concen: 41.353 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 49 Resp: 74482

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	71.1	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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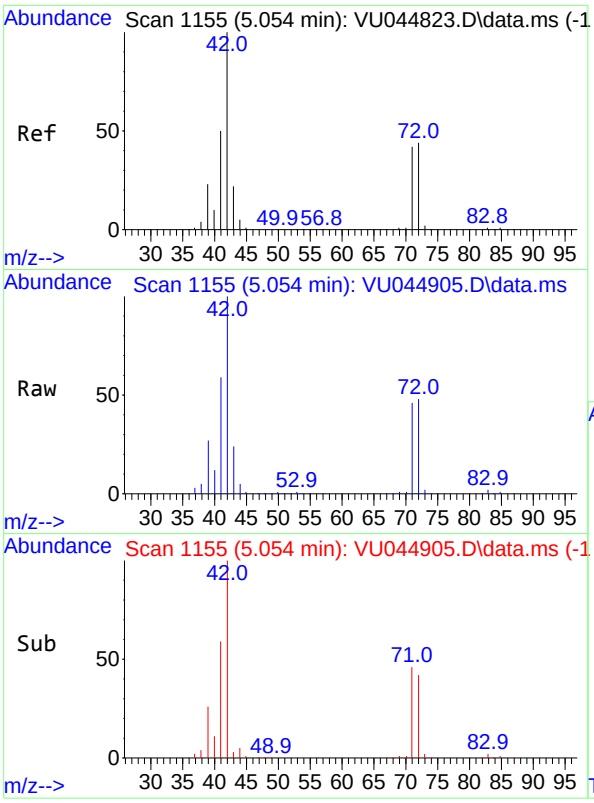
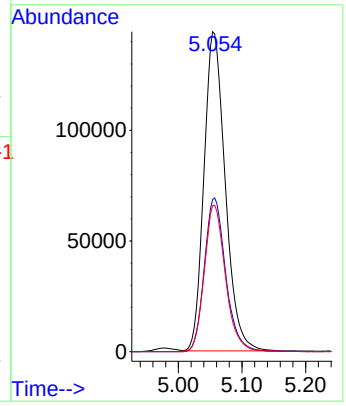
9/28/2021 1:33:39 PM

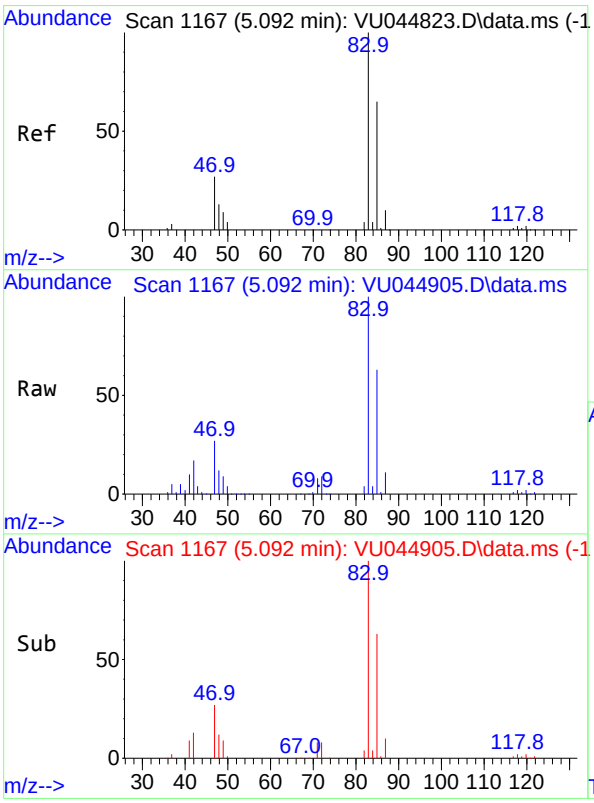


#29
Tetrahydrofuran
Concen: 252.318 ug/l
RT: 5.054 min Scan# 1155
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 42 Resp: 335317

Ion	Ratio	Lower	Upper
42	100		
72	48.2	36.2	54.4
71	45.6	34.1	51.1

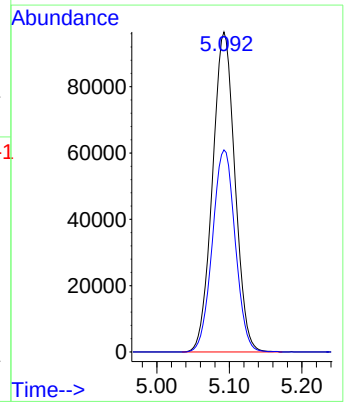




#30
Chloroform
Concen: 54.500 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 83 Resp: 207701

Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.1	78.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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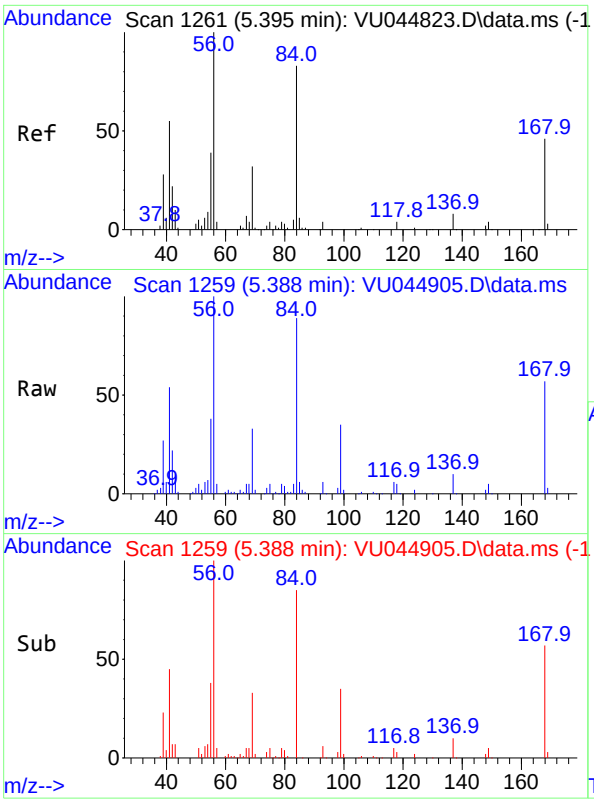
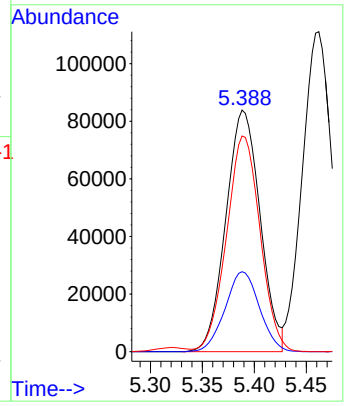
9/28/2021 1:33:39 PM

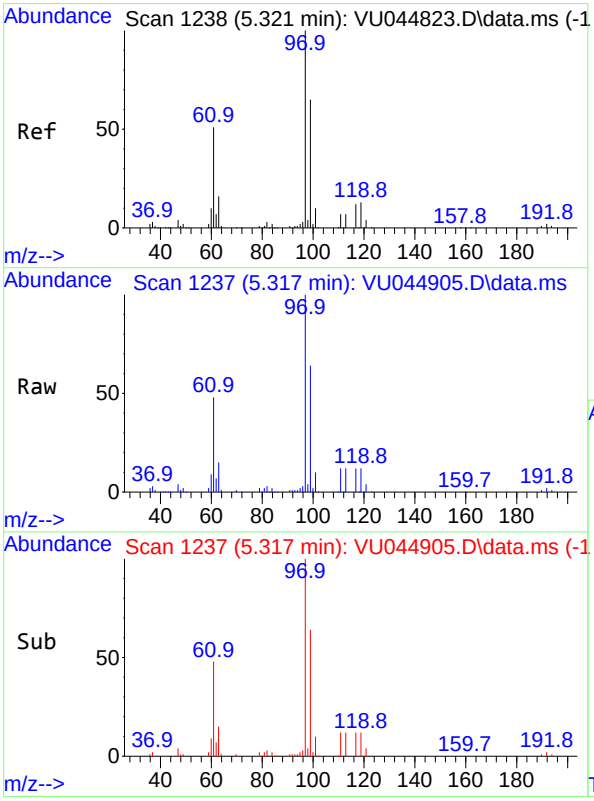


#31
Cyclohexane
Concen: 54.365 ug/l
RT: 5.388 min Scan# 1259
Delta R.T. -0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 56 Resp: 192641

Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.2	37.8
84	87.9	66.4	99.6

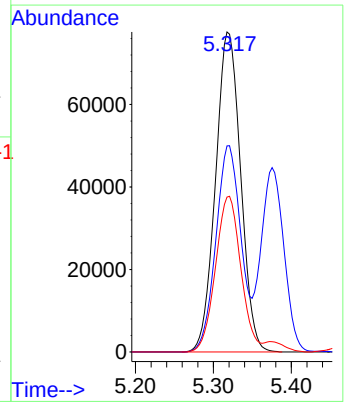




#32
1,1,1-Trichloroethane
Concen: 56.431 ug/l
RT: 5.317 min Scan# 1237
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 97 Resp: 173765

Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.9	76.3
61	49.2	40.7	61.1



Instrument :
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ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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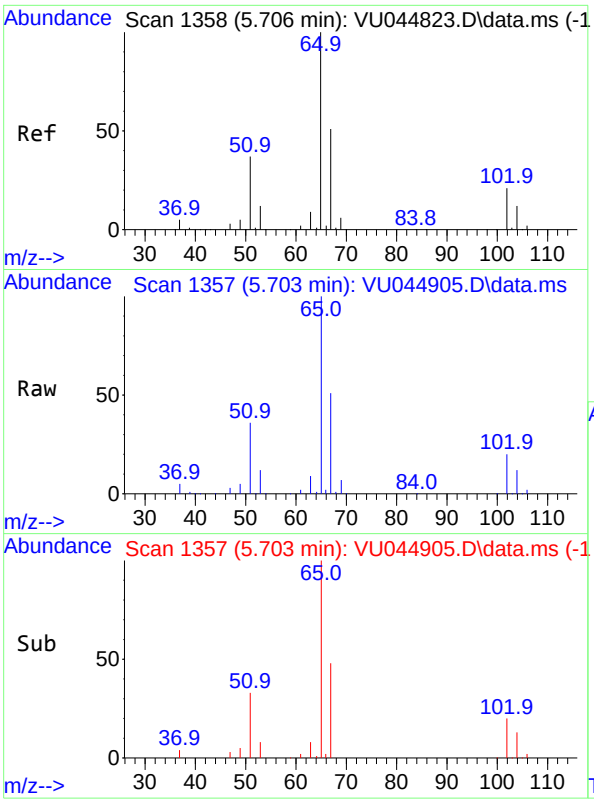
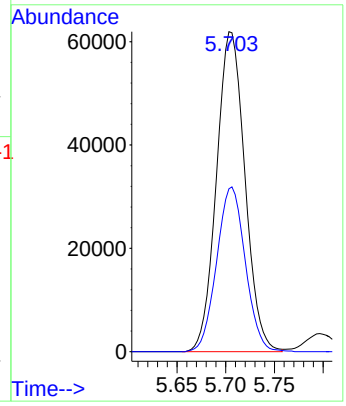
9/28/2021 1:33:39 PM

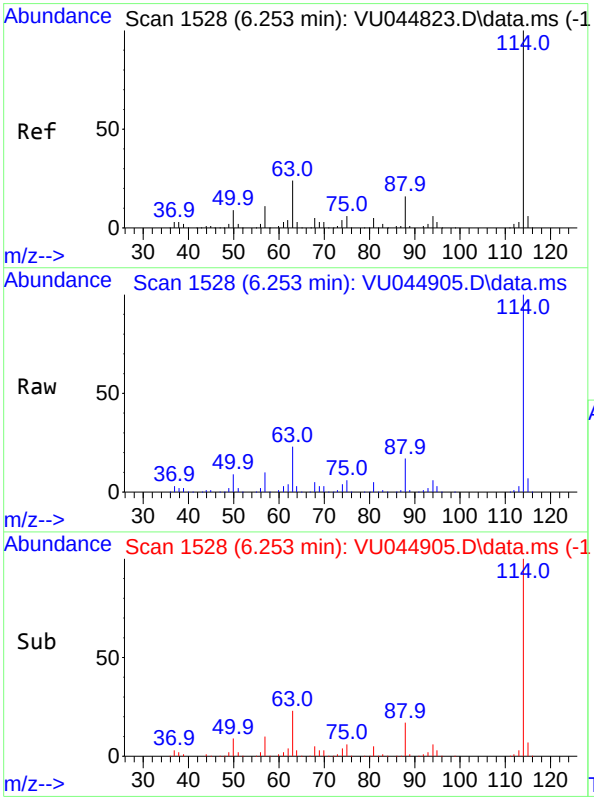


#33
1,2-Dichloroethane-d4
Concen: 50.917 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 65 Resp: 125670

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	104.8

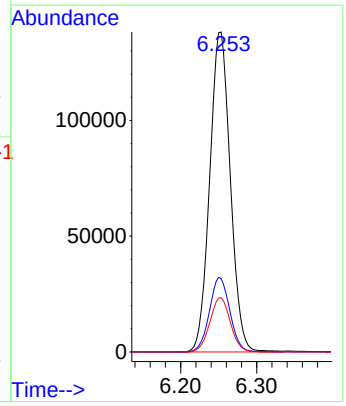




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:114 Resp: 259974

Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	47.8
88	17.0	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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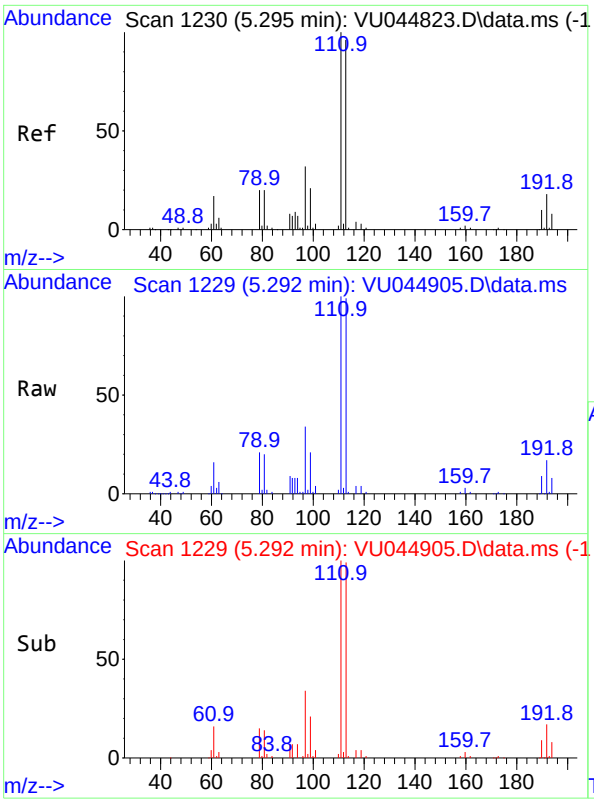
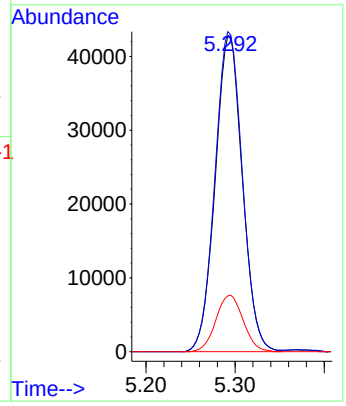
9/28/2021 1:33:39 PM

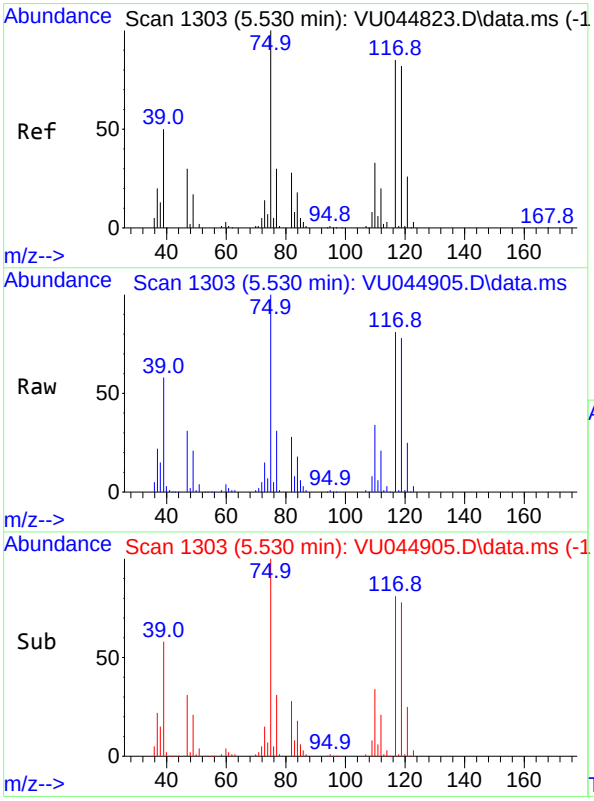


#35
Dibromofluoromethane
Concen: 50.885 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:113 Resp: 90751

Ion	Ratio	Lower	Upper
113	100		
111	102.2	84.1	126.1
192	18.0	14.8	22.2

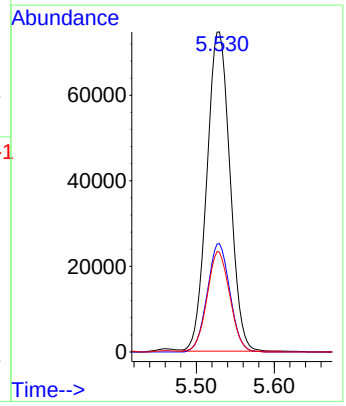




#36
1,1-Dichloropropene
Concen: 55.707 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 75 Resp: 153660

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.3	48.9
77	31.1	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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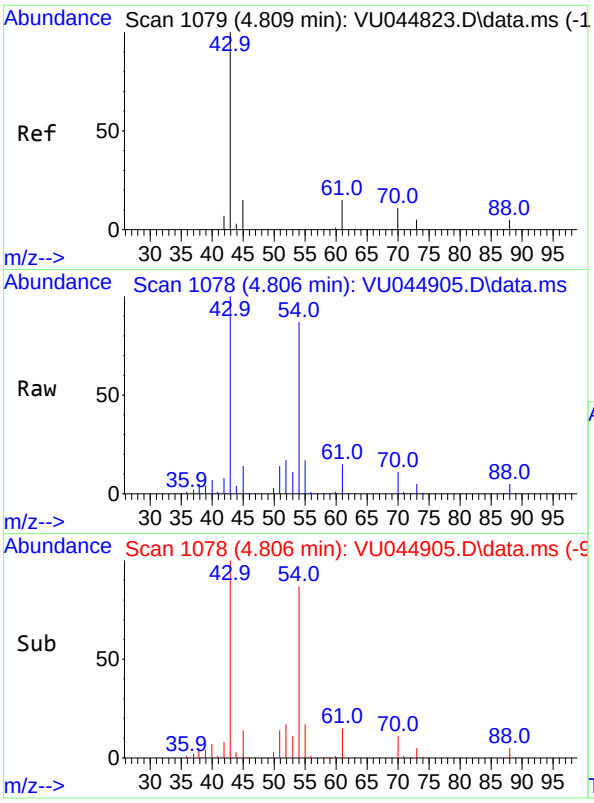
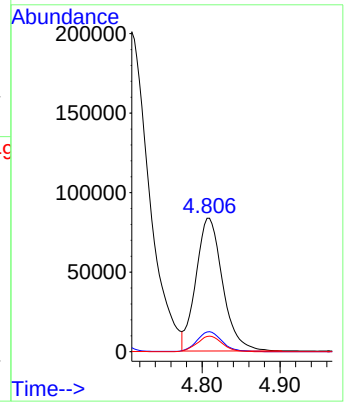
9/28/2021 1:33:39 PM

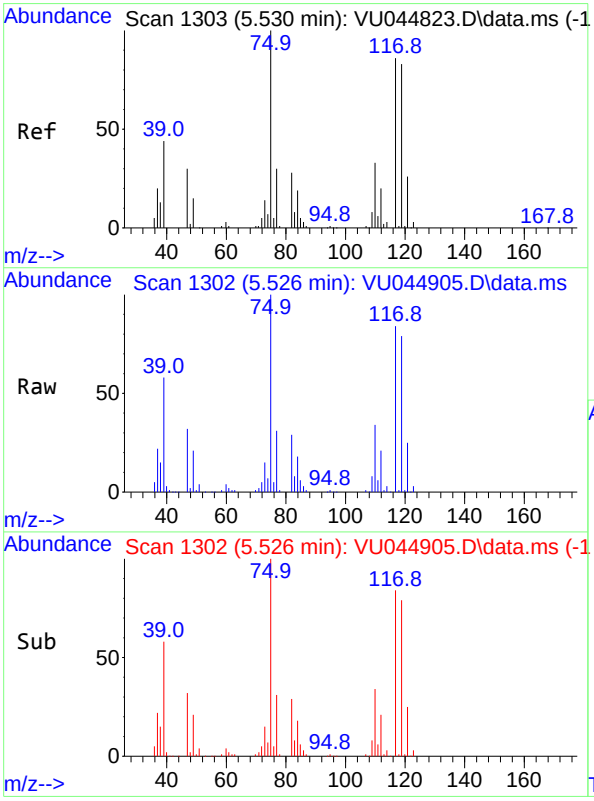


#37
Ethyl Acetate
Concen: 49.058 ug/l
RT: 4.806 min Scan# 1078
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 198552

Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.9	16.3
70	11.0	8.2	12.4

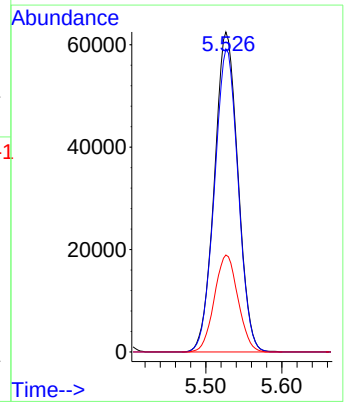




#38
Carbon Tetrachloride
Concen: 54.483 ug/l
RT: 5.526 min Scan# 1302
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:117 Resp: 134355

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.4	116.2
121	30.3	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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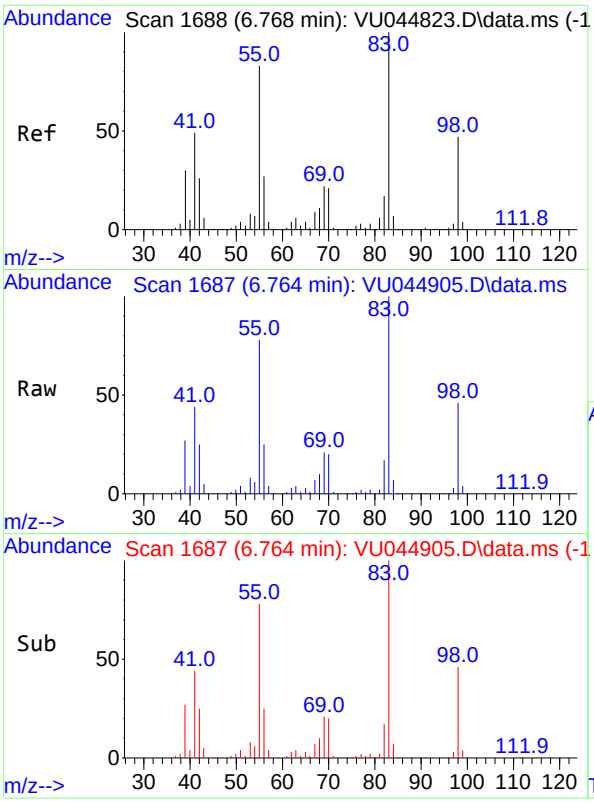
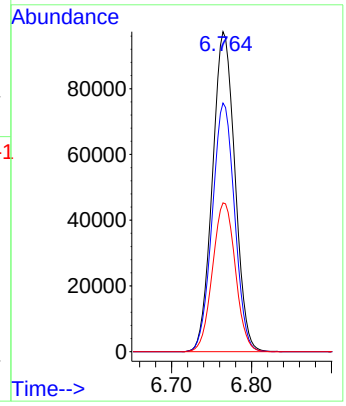
9/28/2021 1:33:39 PM

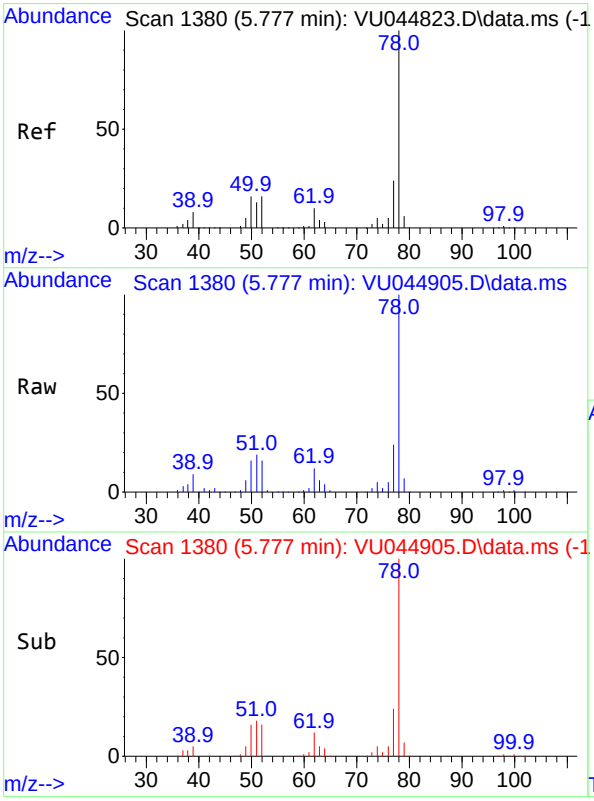


#39
Methylcyclohexane
Concen: 60.908 ug/l
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 83 Resp: 190018

Ion	Ratio	Lower	Upper
83	100		
55	77.7	66.2	99.4
98	46.5	37.5	56.3

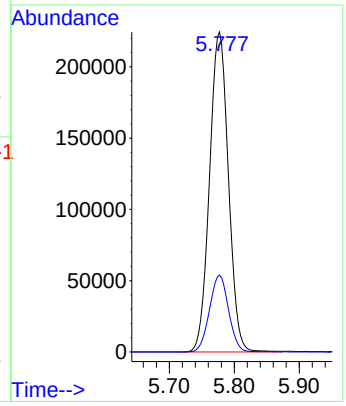




#40
Benzene
Concen: 53.965 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 78 Resp: 453833

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.1	28.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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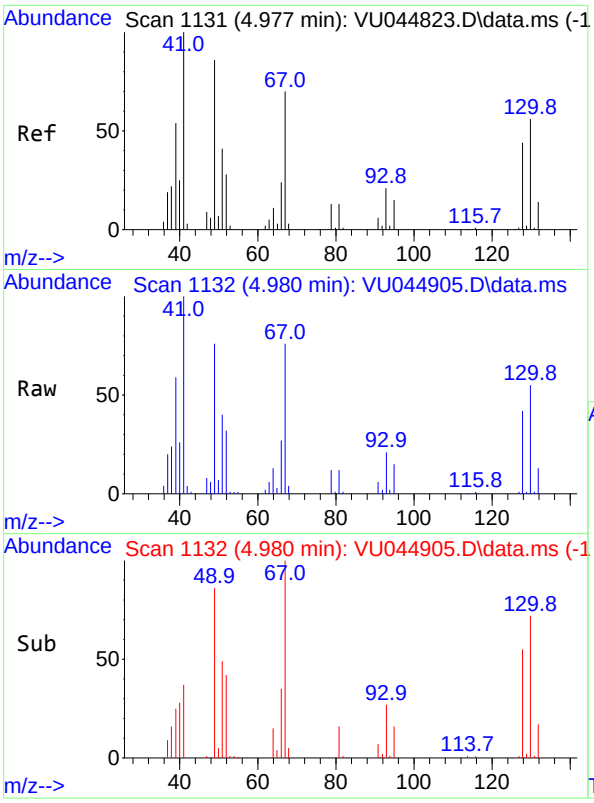
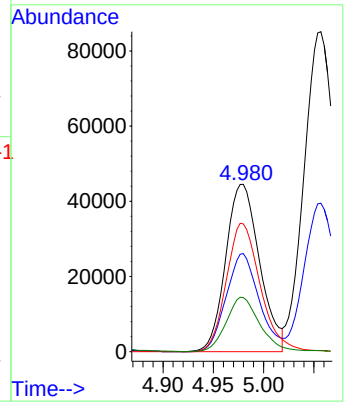
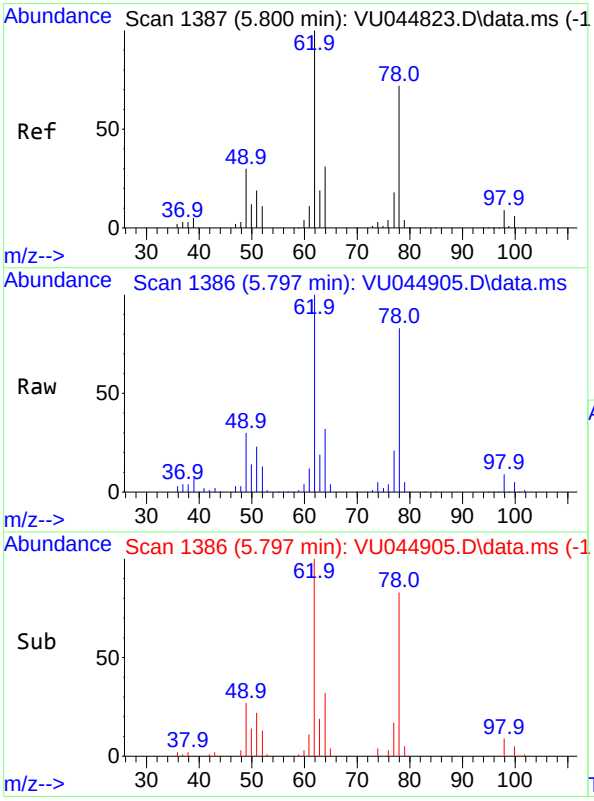


#41
Methacrylonitrile
Concen: 51.817 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 41 Resp: 104683

Ion	Ratio	Lower	Upper
41	100		
39	57.2	44.4	66.6
67	76.9	58.1	87.1
52	32.7	23.8	35.8

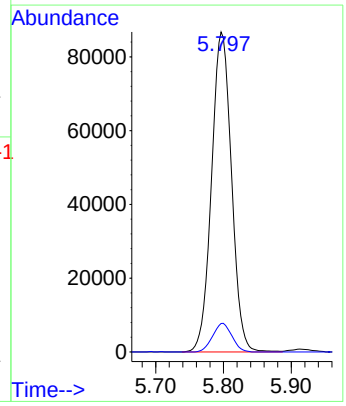




#42
1,2-Dichloroethane
Concen: 53.635 ug/l
RT: 5.797 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 62 Resp: 177454

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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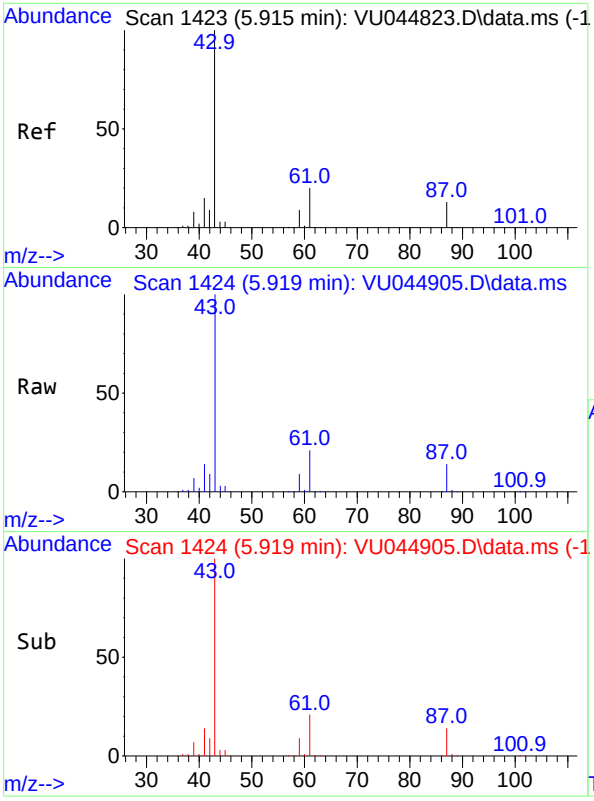
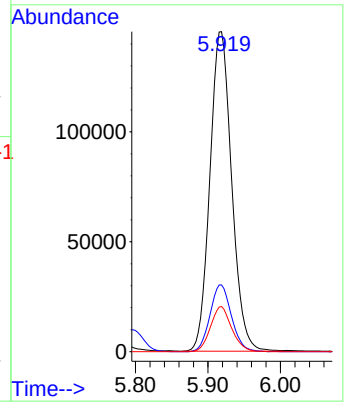
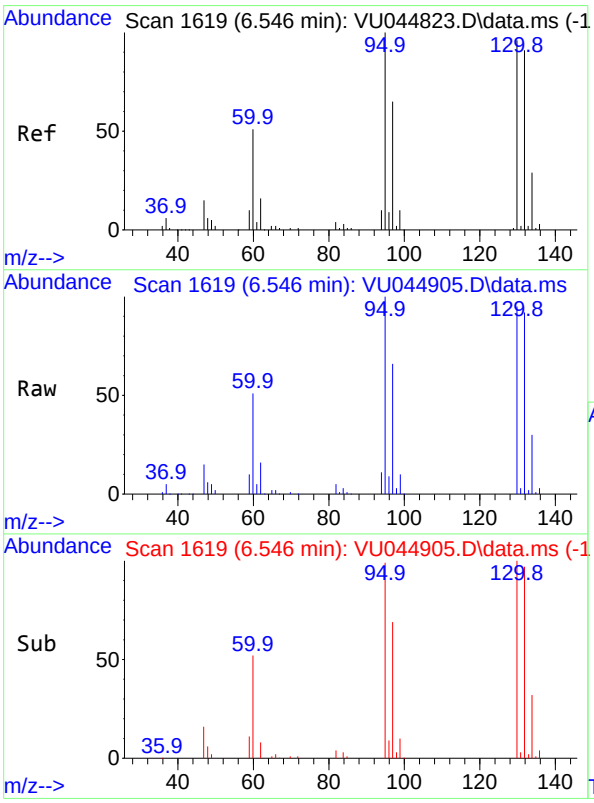


#43
Isopropyl Acetate
Concen: 53.518 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 303042

Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.1	24.1
87	13.8	10.3	15.5

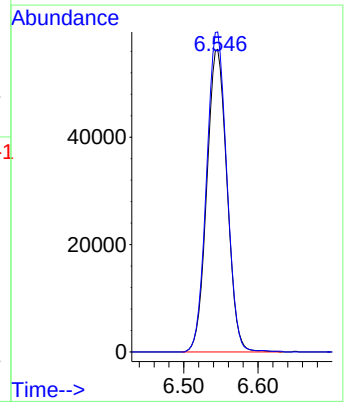




#44
Trichloroethene
Concen: 52.624 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:130 Resp: 106363

Ion	Ratio	Lower	Upper
130	100		
95	105.8	0.0	209.0



Instrument :
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ClientSampleId :
VSTDCCC050

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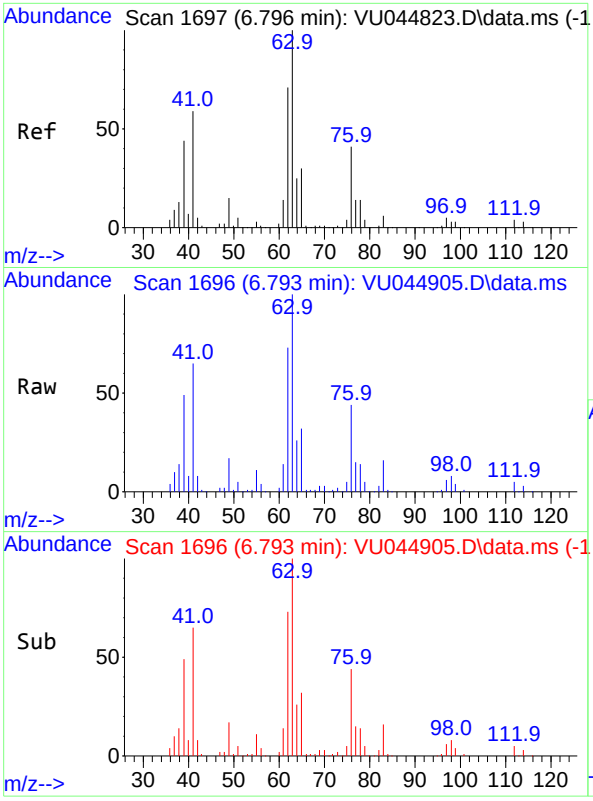
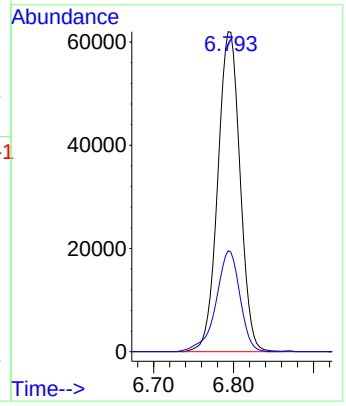
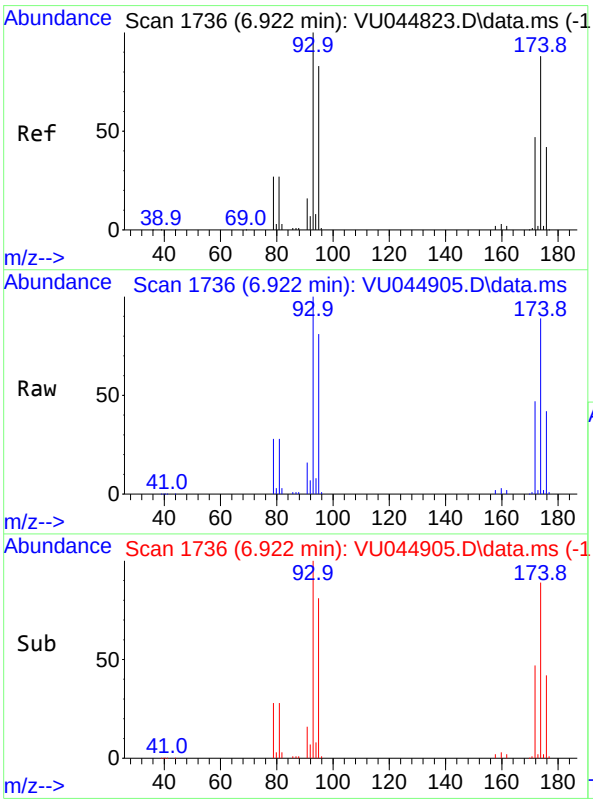


#45
1,2-Dichloropropane
Concen: 52.578 ug/l
RT: 6.793 min Scan# 1696
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 63 Resp: 119668

Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.9	35.9

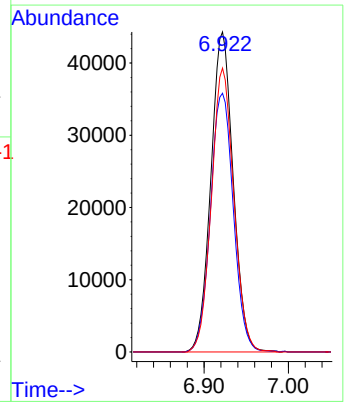




#46
Dibromomethane
Concen: 54.123 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 93 Resp: 81625

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.6	98.4
174	88.8	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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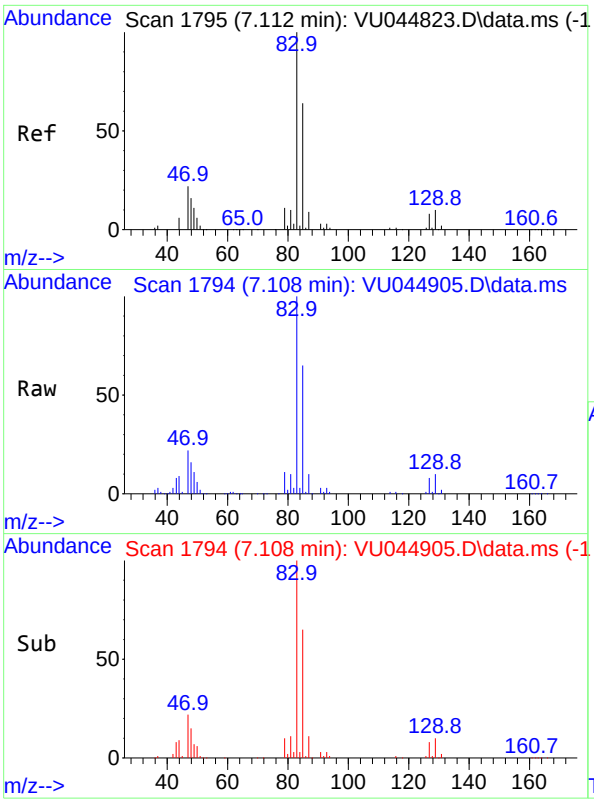
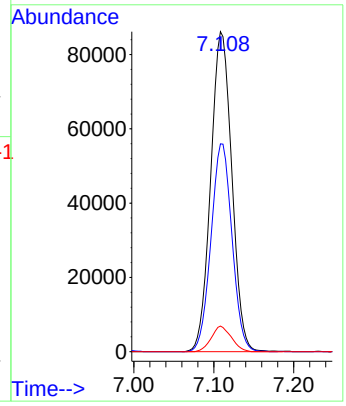
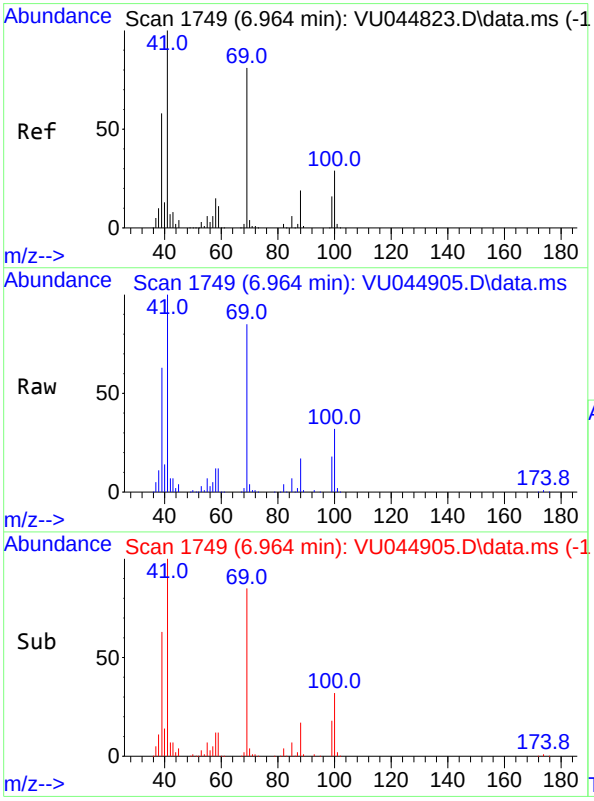


#47
Bromodichloromethane
Concen: 53.071 ug/l
RT: 7.108 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 83 Resp: 157879

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.6	77.4
127	8.0	6.2	9.4

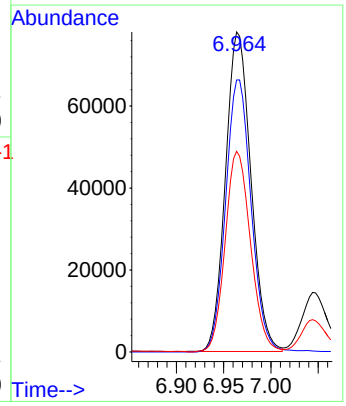




#48
Methyl methacrylate
Concen: 54.652 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 41 Resp: 146066

Ion	Ratio	Lower	Upper
41	100		
69	85.5	65.6	98.4
39	62.7	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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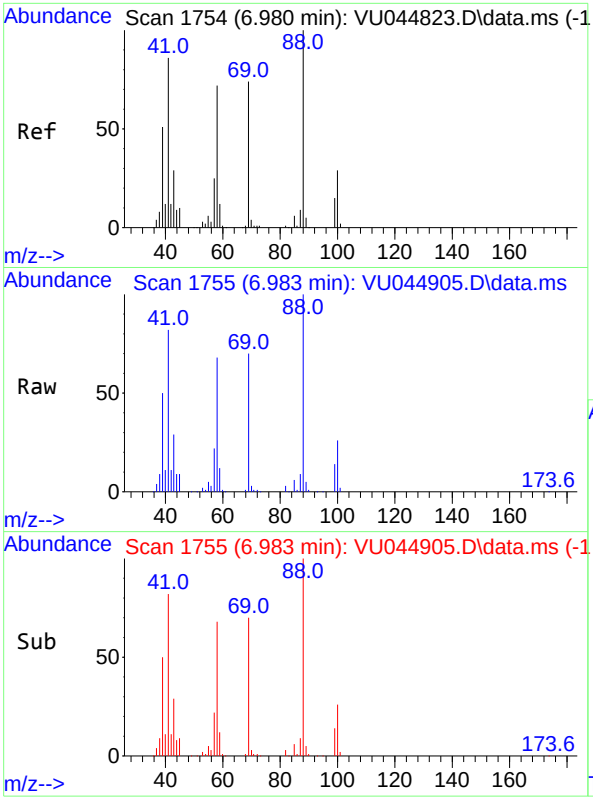
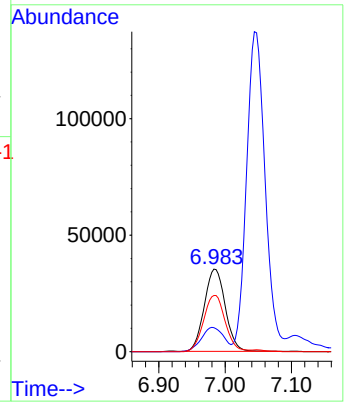
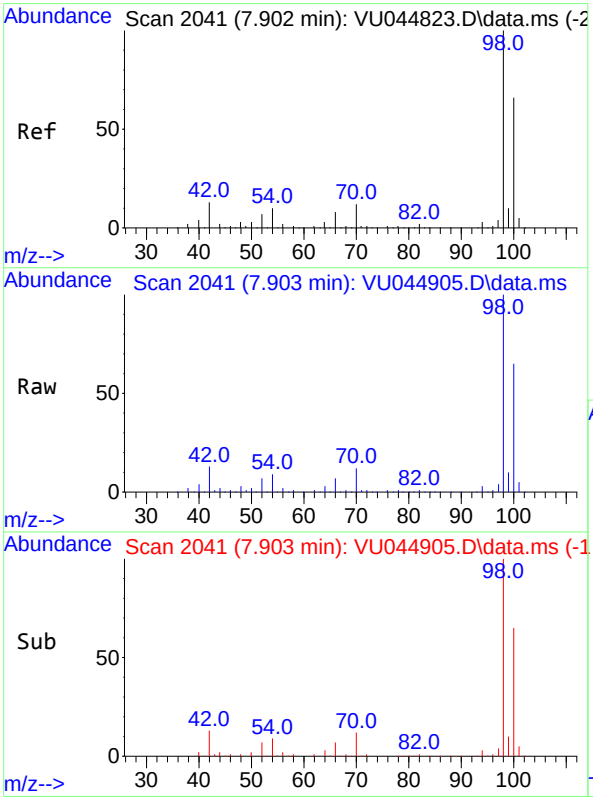


#49
1,4-Dioxane
Concen: 1137.110 ug/l
RT: 6.983 min Scan# 1755
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 88 Resp: 77671

Ion	Ratio	Lower	Upper
88	100		
43	31.6	25.8	38.6
58	70.6	61.3	91.9

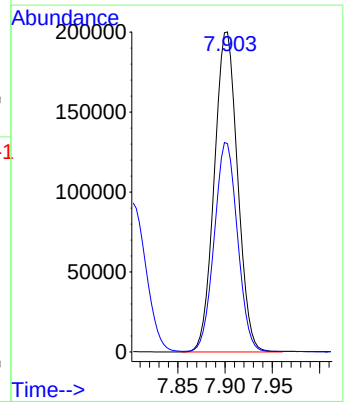




#50
Toluene-d8
Concen: 50.981 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 98 Resp: 343392

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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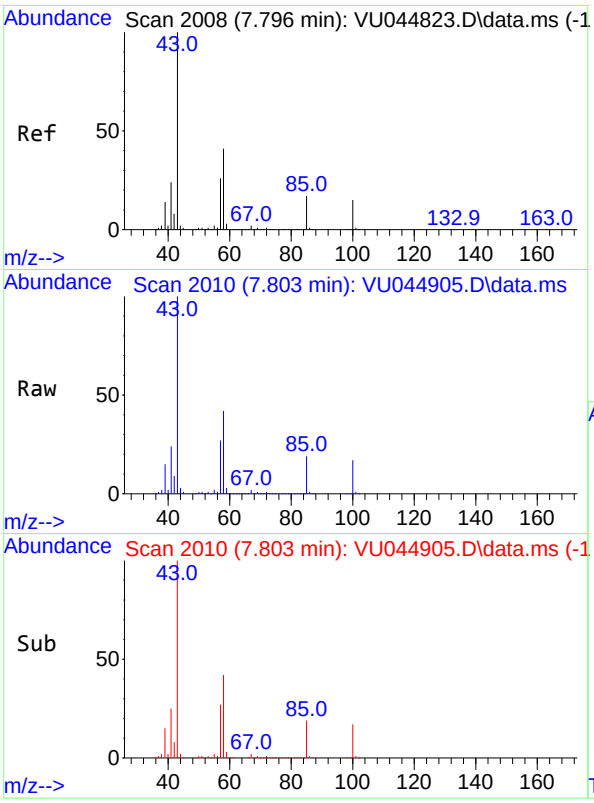
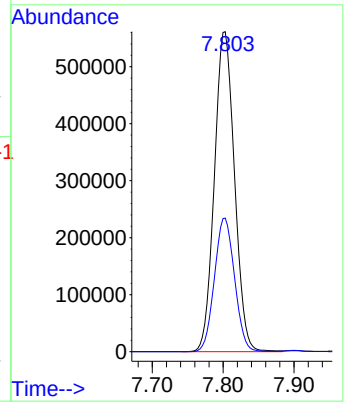
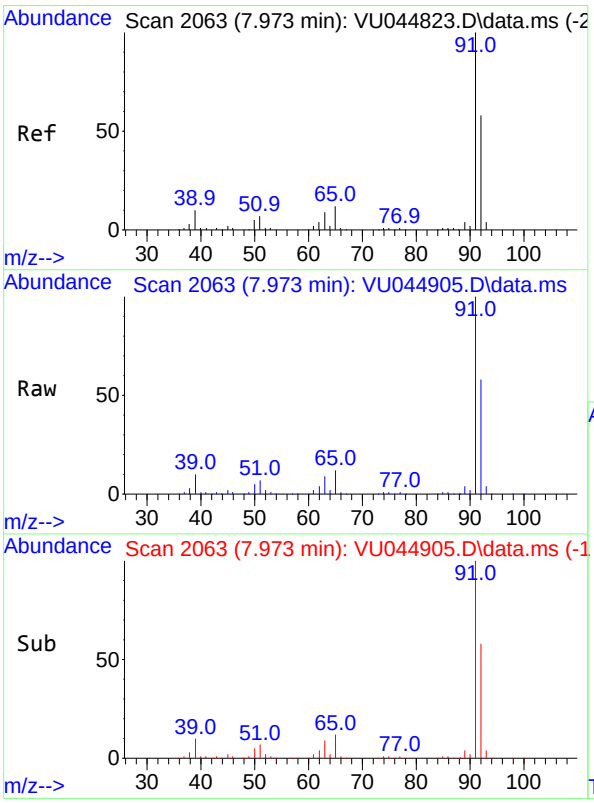


#51
4-Methyl-2-Pentanone
Concen: 274.316 ug/l
RT: 7.803 min Scan# 2010
Delta R.T. 0.006 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 1107029

Ion	Ratio	Lower	Upper
43	100		
58	41.8	32.4	48.6

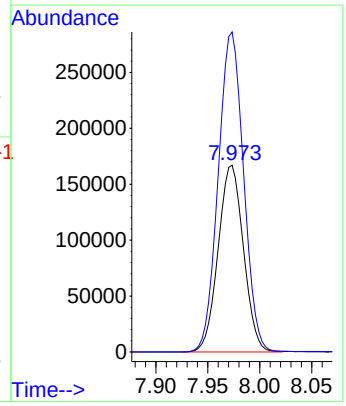




#52
Toluene
Concen: 56.308 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 92 Resp: 283116

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.9	205.3



Instrument :
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ClientSampleId :
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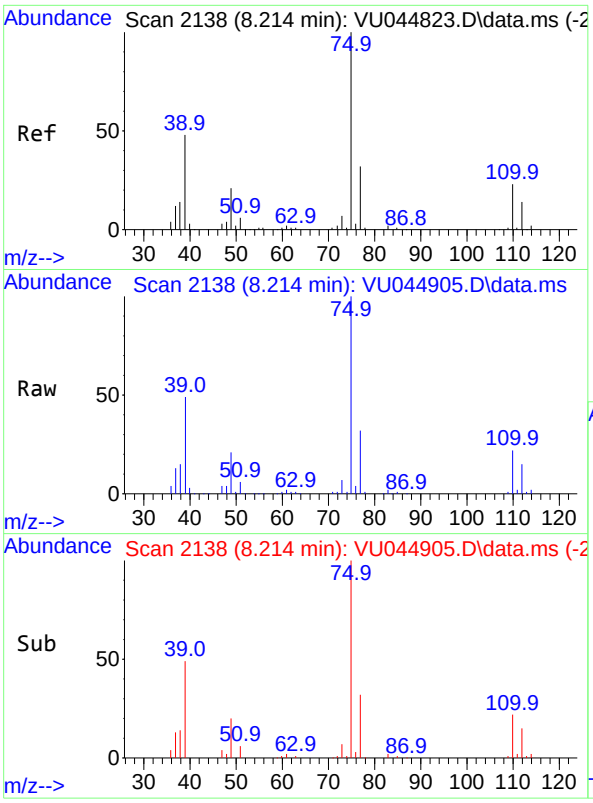
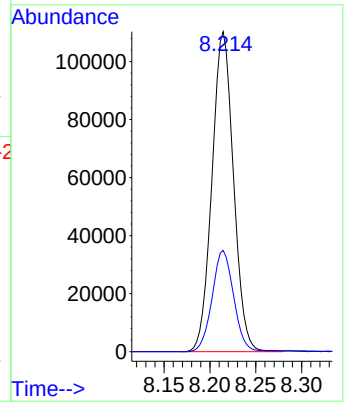
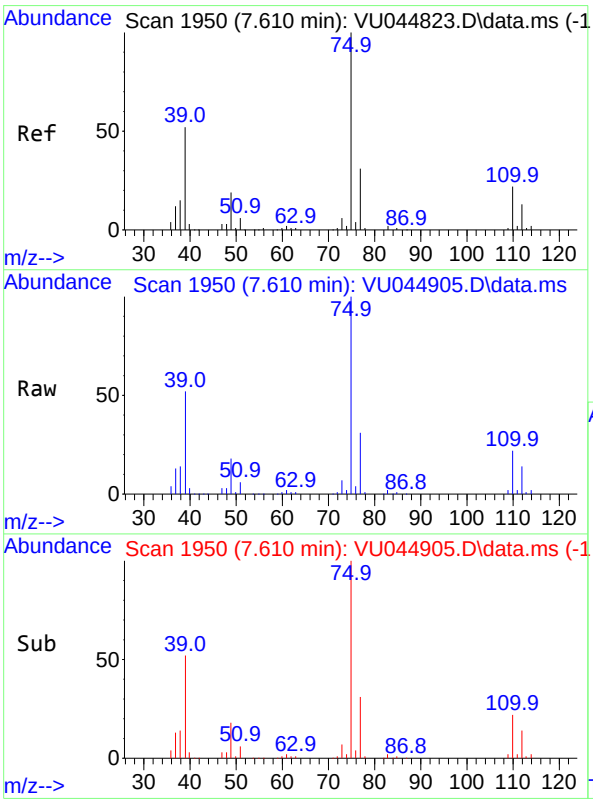


#53
t-1,3-Dichloropropene
Concen: 58.131 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 75 Resp: 180166

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4

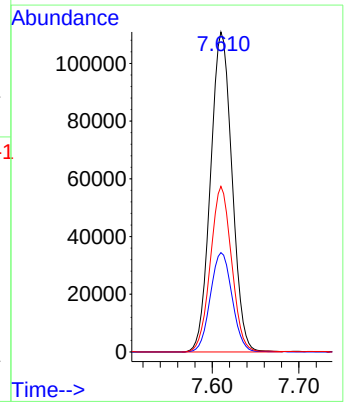




#54
cis-1,3-Dichloropropene
Concen: 56.957 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 75 Resp: 191175

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.6
39	51.7	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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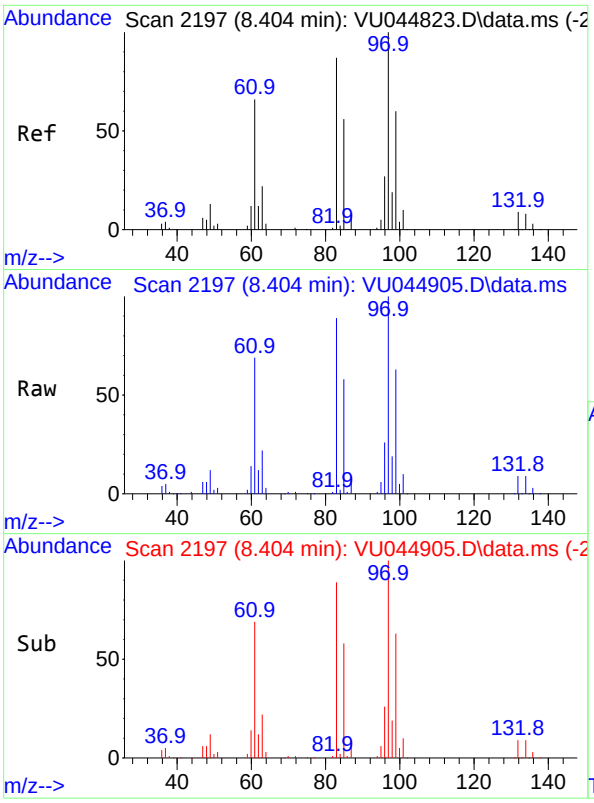
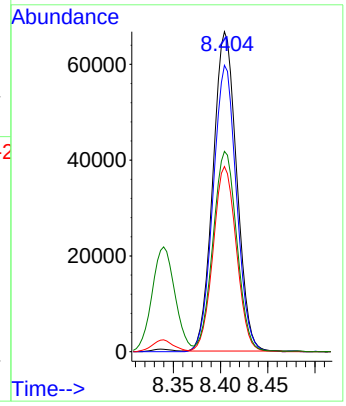
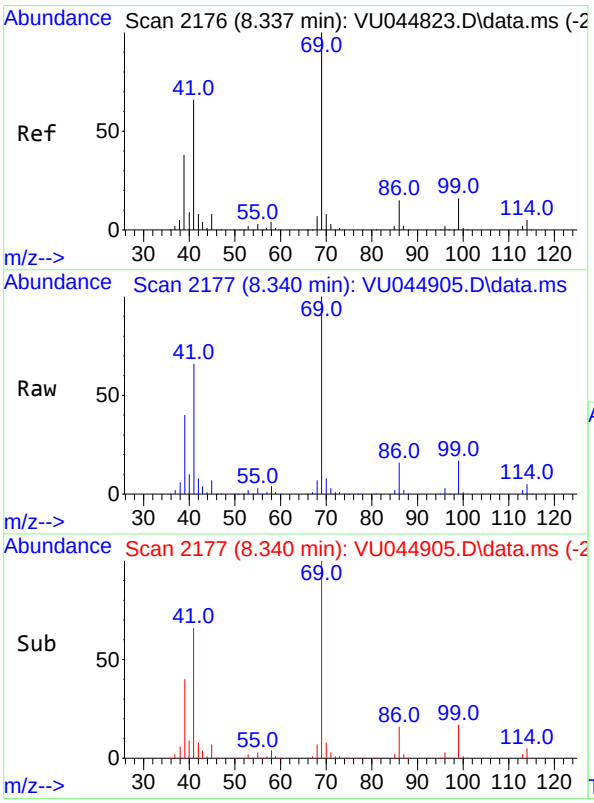


#55
1,1,2-Trichloroethane
Concen: 54.115 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 97 Resp: 116330

Ion	Ratio	Lower	Upper
97	100		
83	89.6	69.7	104.5
85	58.0	44.8	67.2
99	62.6	49.3	73.9

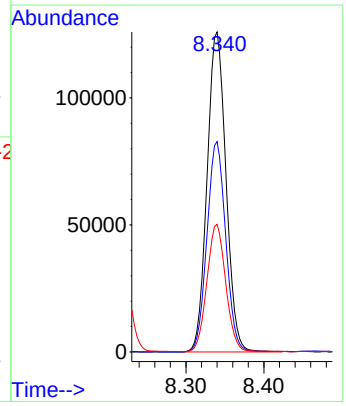




#56
Ethyl methacrylate
Concen: 55.240 ug/l
RT: 8.340 min Scan# 2177
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 69 Resp: 212306

Ion	Ratio	Lower	Upper
69	100		
41	65.5	53.5	80.3
39	39.4	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
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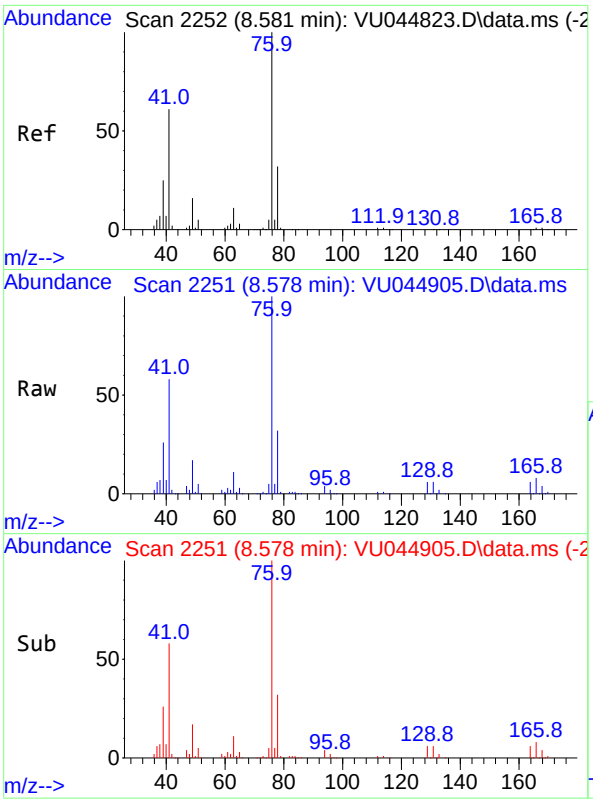
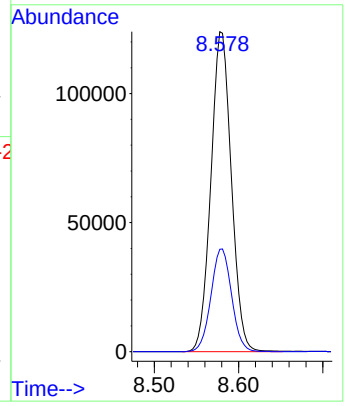
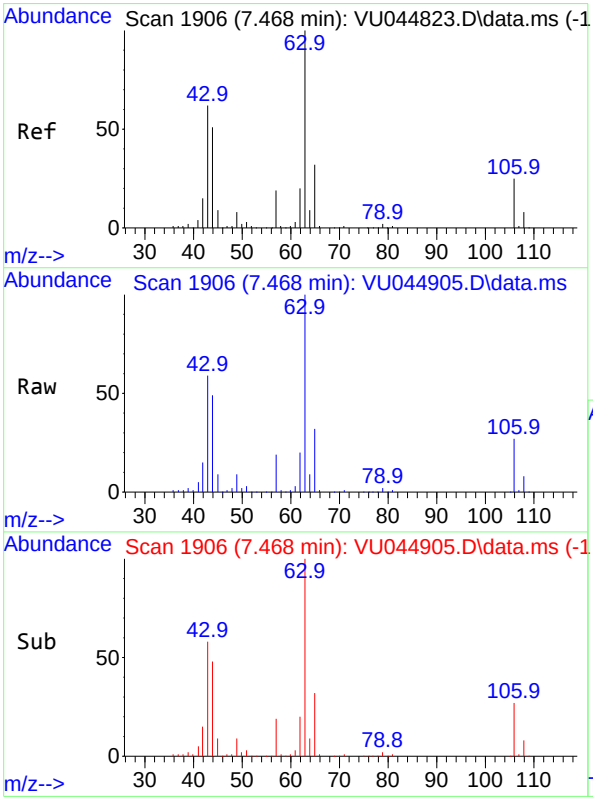


#57
1,3-Dichloropropane
Concen: 54.594 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 76 Resp: 208974

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.7	38.5

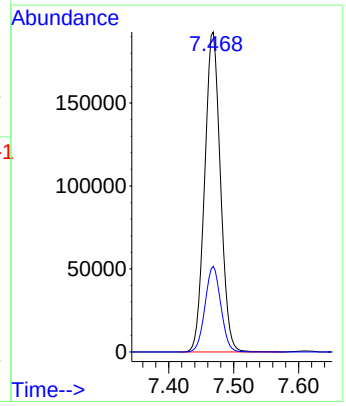




#58
2-Chloroethyl Vinyl ether
Concen: 344.538 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 63 Resp: 326328

Ion	Ratio	Lower	Upper
63	100		
106	26.7	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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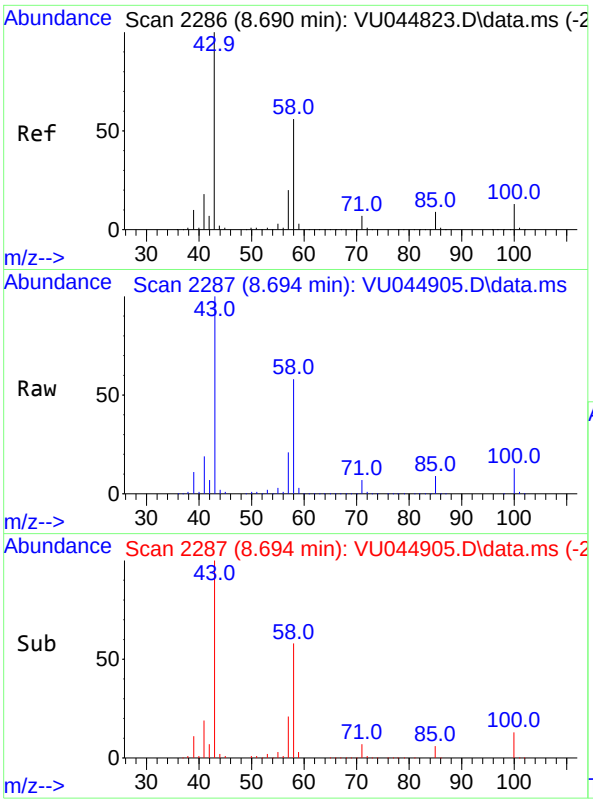
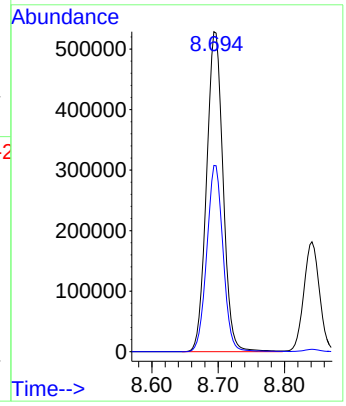
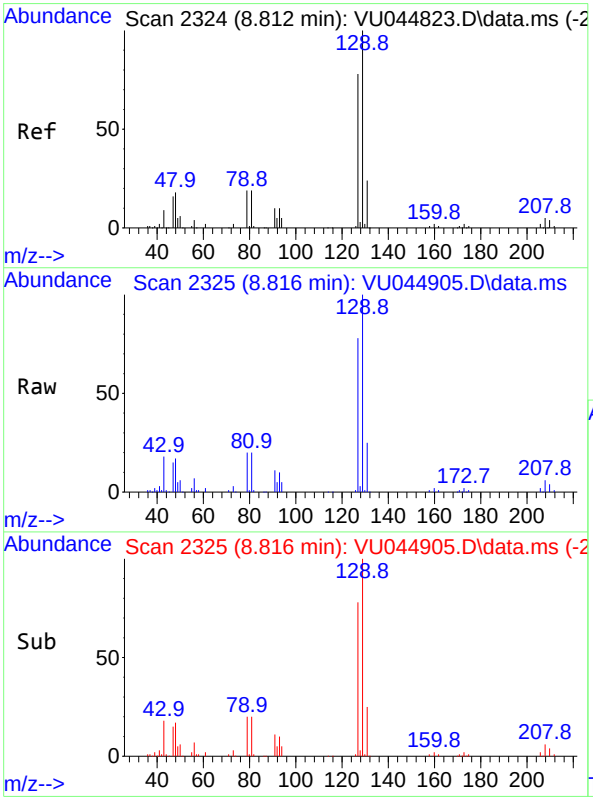


#59
2-Hexanone
Concen: 281.658 ug/l
RT: 8.694 min Scan# 2287
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 912379

Ion	Ratio	Lower	Upper
43	100		
58	57.4	28.0	84.0

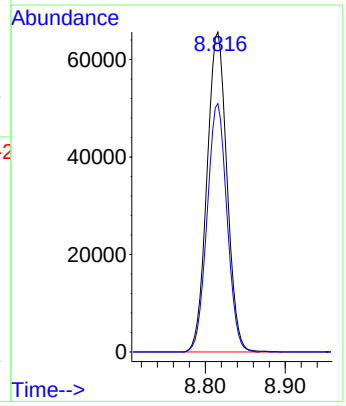




#60
Dibromochloromethane
Concen: 55.356 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:129 Resp: 113953

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.0	117.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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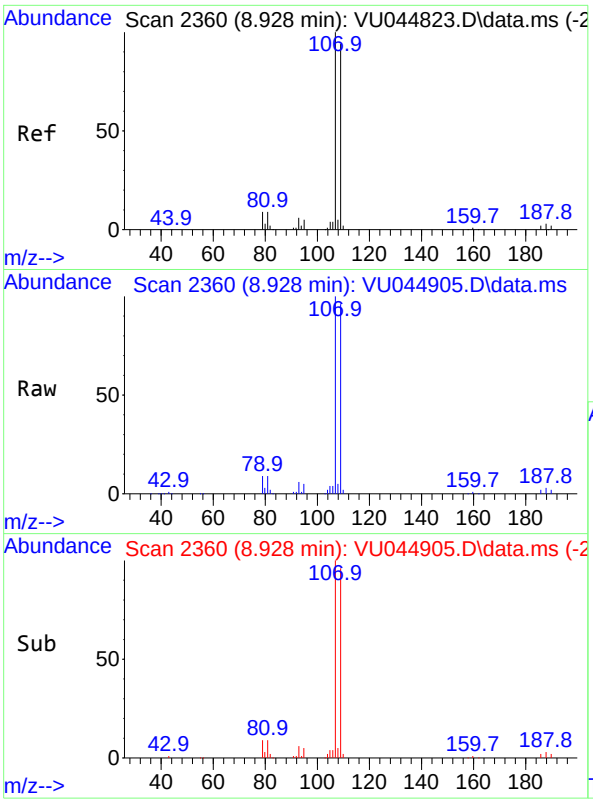
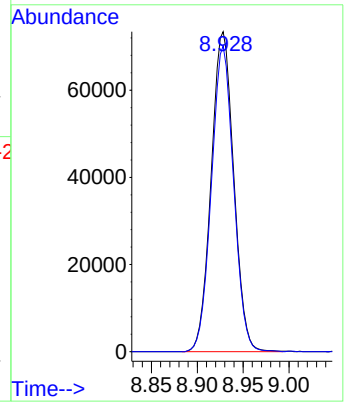
9/28/2021 1:33:39 PM

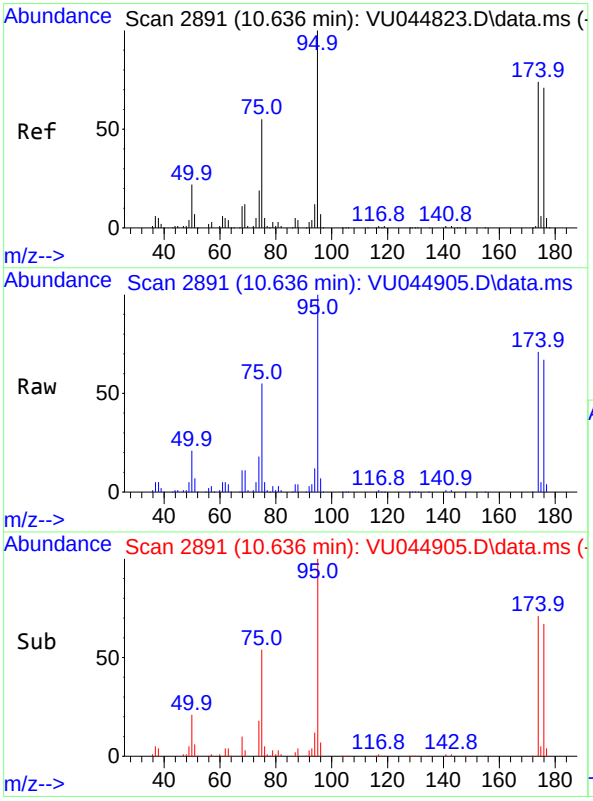


#61
1,2-Dibromoethane
Concen: 55.588 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:107 Resp: 125471

Ion	Ratio	Lower	Upper
107	100		
109	93.9	74.8	112.2

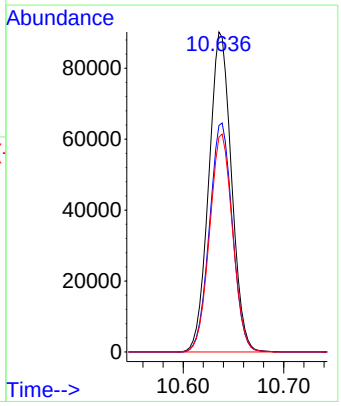




#62
4-Bromofluorobenzene
Concen: 56.401 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 95 Resp: 141105

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	146.6
176	69.2	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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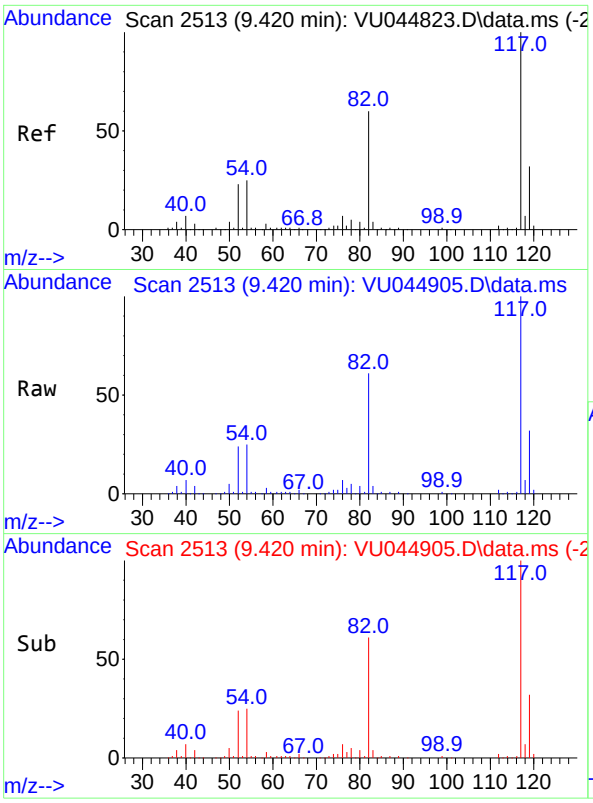
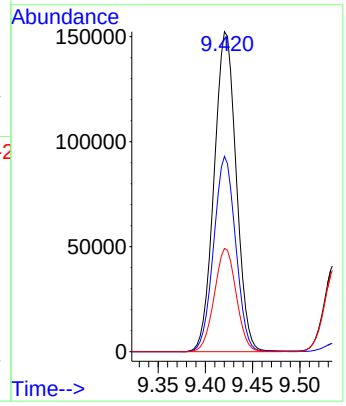
9/28/2021 1:33:39 PM

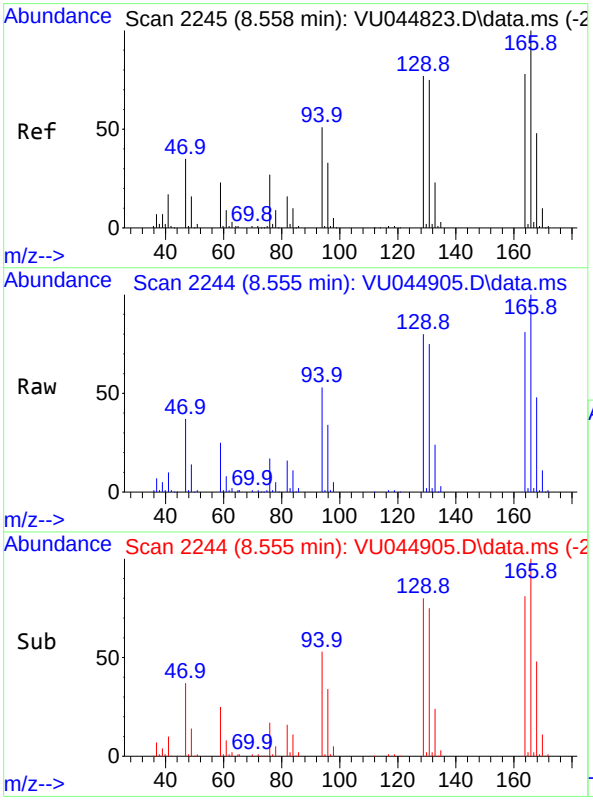


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:117 Resp: 248033

Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.8	71.8
119	32.3	25.8	38.6

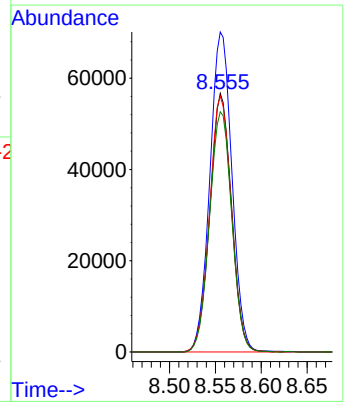




#64
Tetrachloroethene
Concen: 55.584 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:164 Resp: 93449

Ion	Ratio	Lower	Upper
164	100		
166	123.8	102.8	154.2
129	98.9	79.4	119.2
131	92.9	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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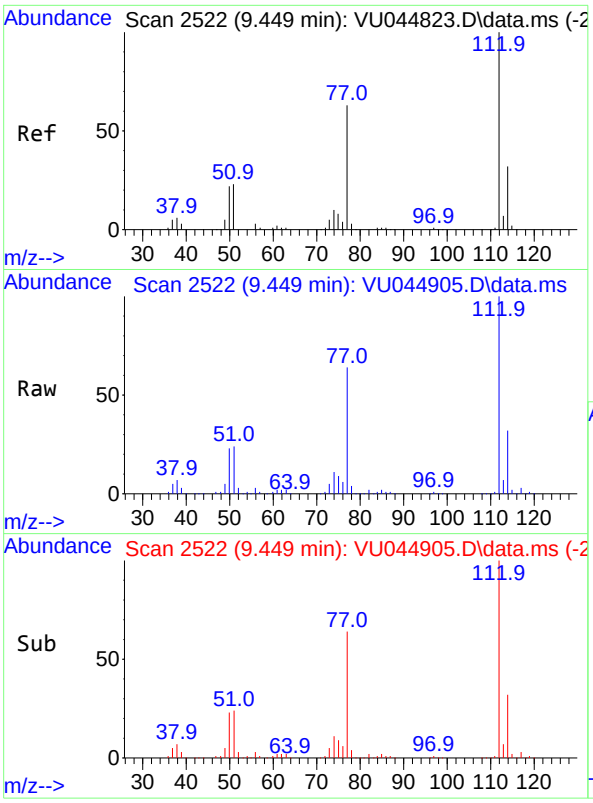
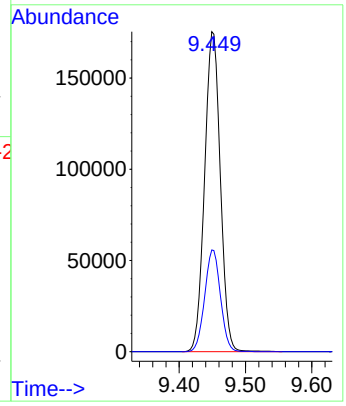
9/28/2021 1:33:39 PM

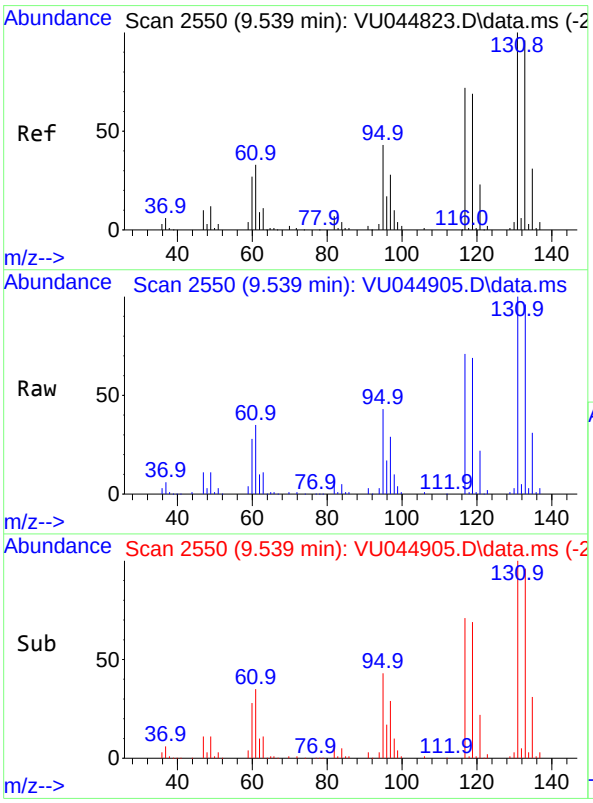


#65
Chlorobenzene
Concen: 56.019 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:112 Resp: 288446

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.9	38.9

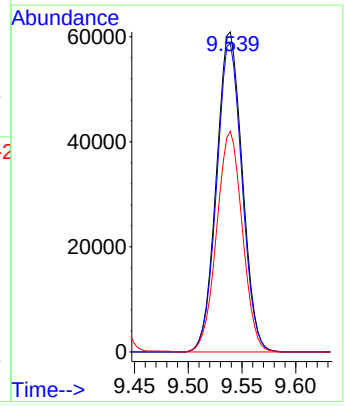




#66
1,1,1,2-Tetrachloroethane
Concen: 55.554 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:131 Resp: 102028

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.1	144.3
119	68.8	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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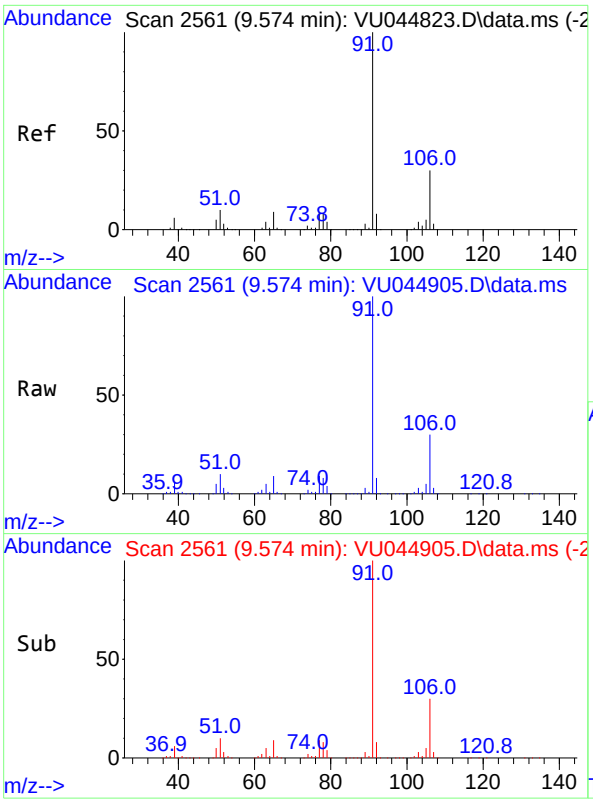
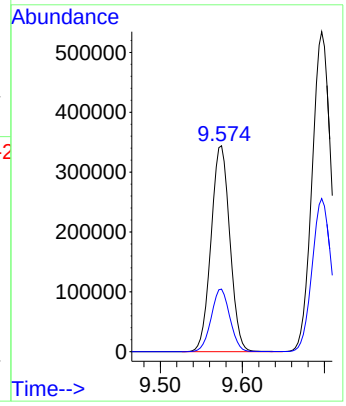
9/28/2021 1:33:39 PM

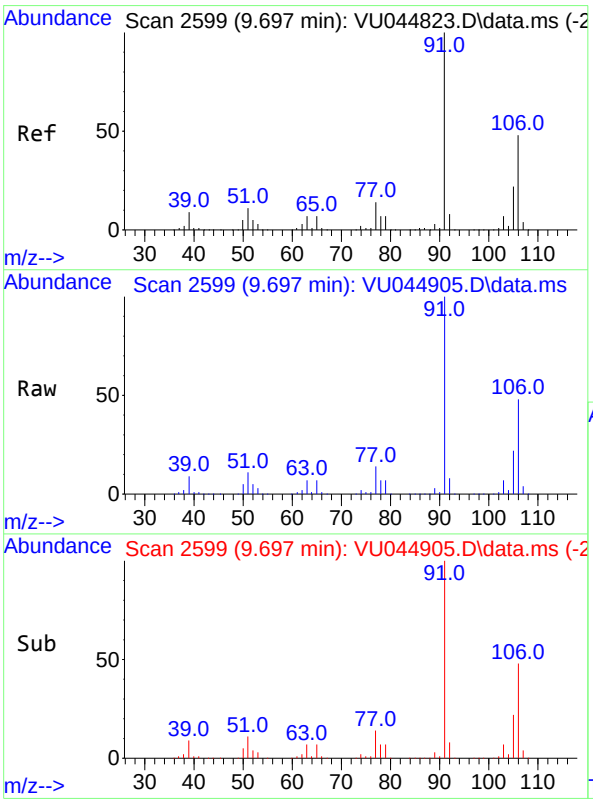


#67
Ethyl Benzene
Concen: 59.594 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 91 Resp: 547695

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

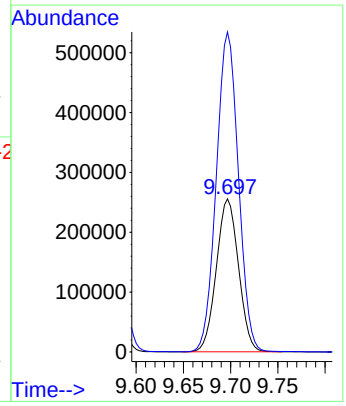




#68
m/p-Xylenes
Concen: 118.606 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:106 Resp: 416909

Ion	Ratio	Lower	Upper
106	100		
91	208.9	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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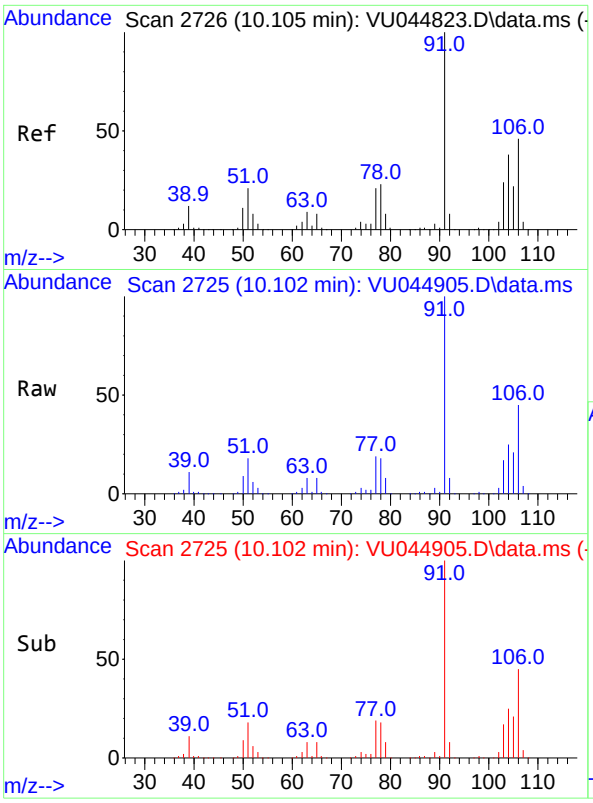
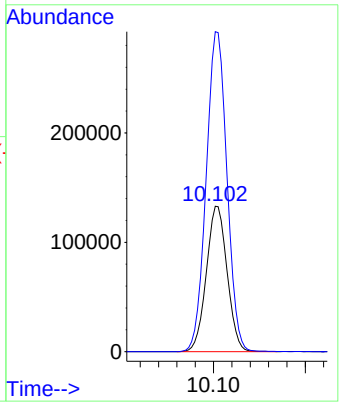
9/28/2021 1:33:39 PM

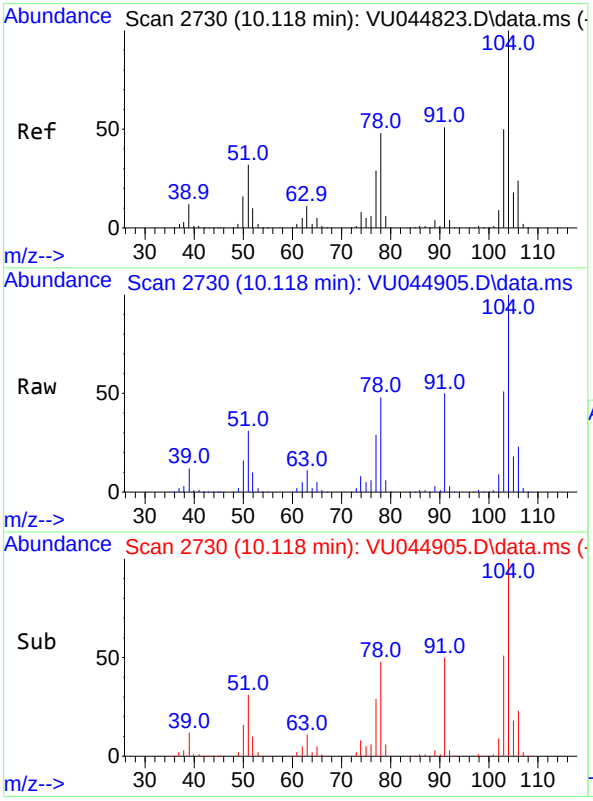


#69
o-Xylene
Concen: 61.508 ug/l
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:106 Resp: 209063

Ion	Ratio	Lower	Upper
106	100		
91	220.1	108.9	326.7

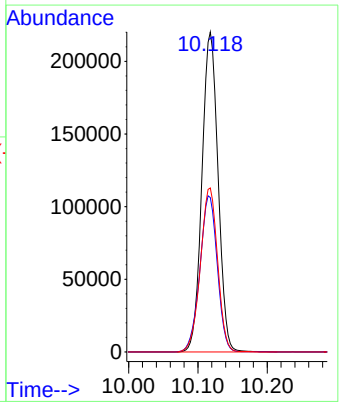




#70
Styrene
Concen: 55.785 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:104 Resp: 355149

Ion	Ratio	Lower	Upper
104	100		
78	52.7	41.4	62.0
103	54.8	43.5	65.3



Instrument :
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ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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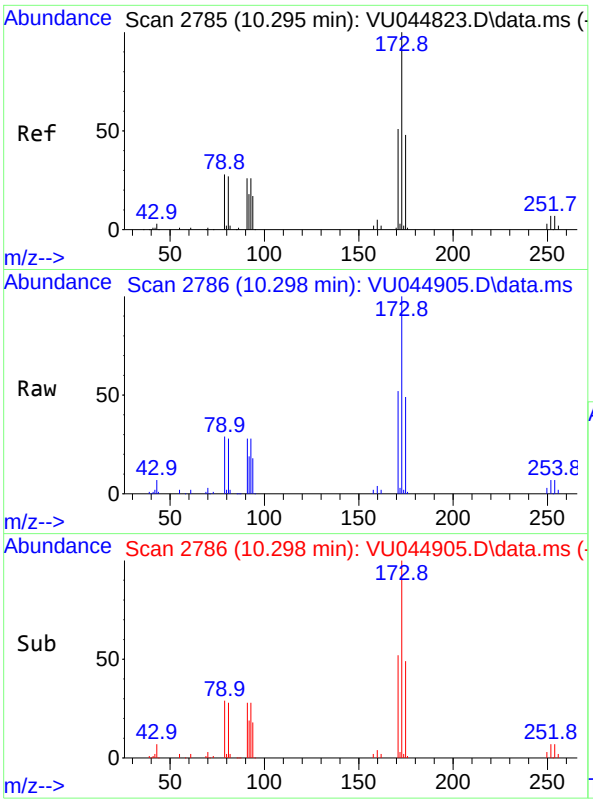
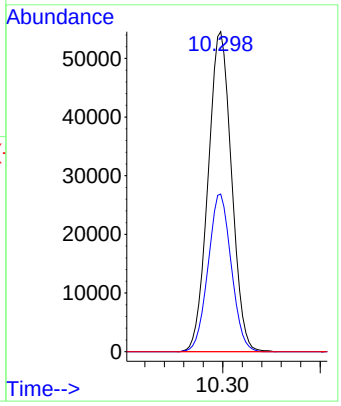
9/28/2021 1:33:39 PM

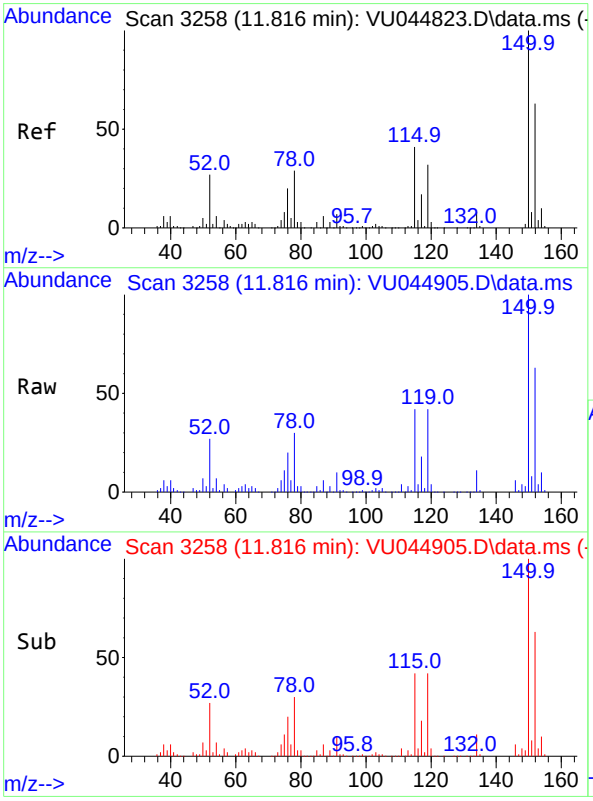


#71
Bromoform
Concen: 59.938 ug/l
RT: 10.298 min Scan# 2786
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:173 Resp: 91083

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	73.0
254	0.0	0.0	0.0

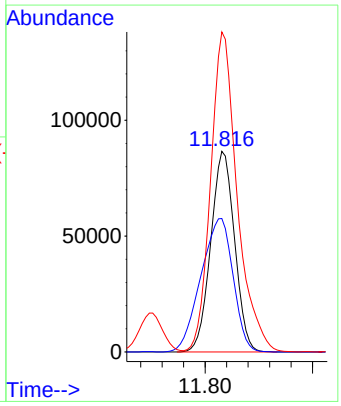




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:152 Resp: 133437

Ion	Ratio	Lower	Upper
152	100		
115	89.7	43.5	130.7
150	177.6	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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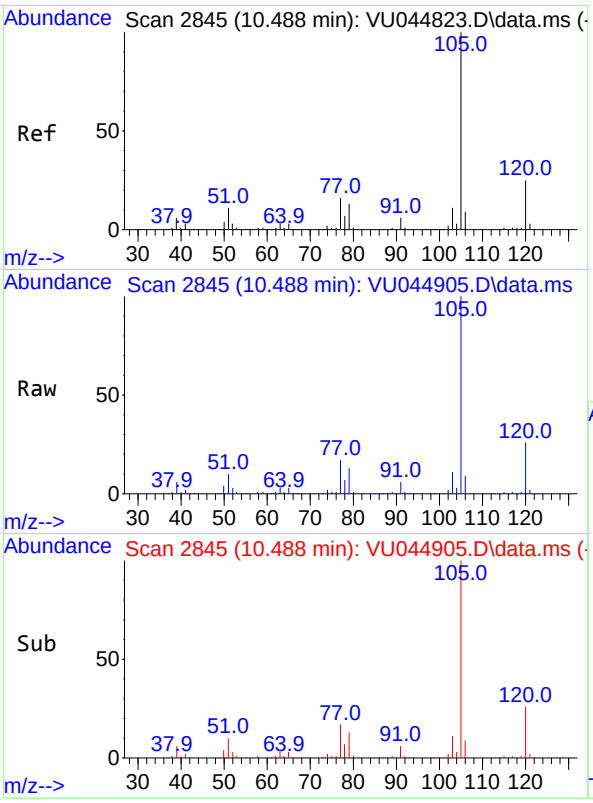
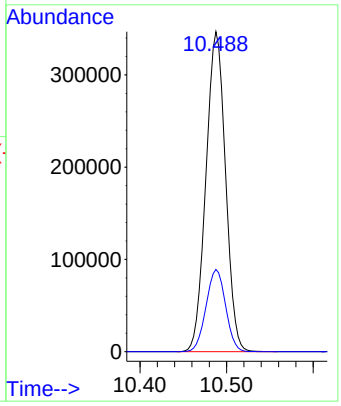
9/28/2021 1:33:39 PM

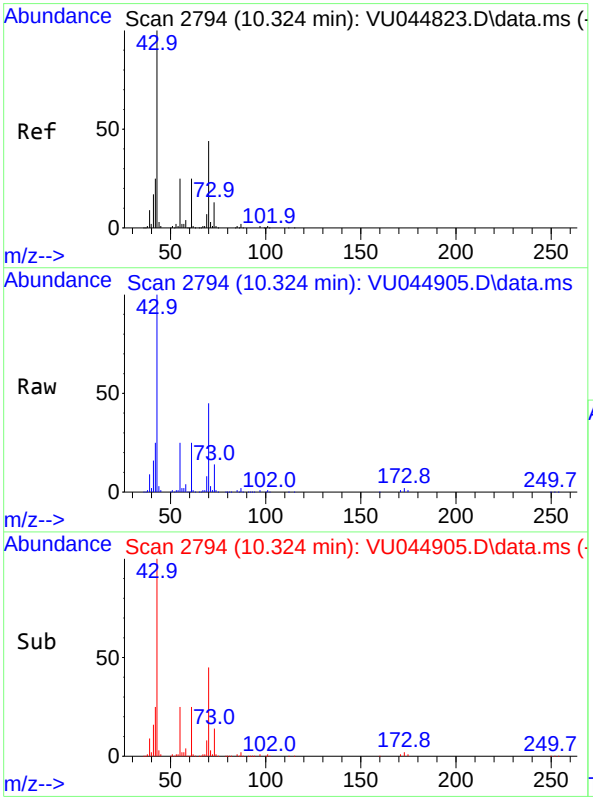


#73
Isopropylbenzene
Concen: 57.480 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:105 Resp: 544377

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.3

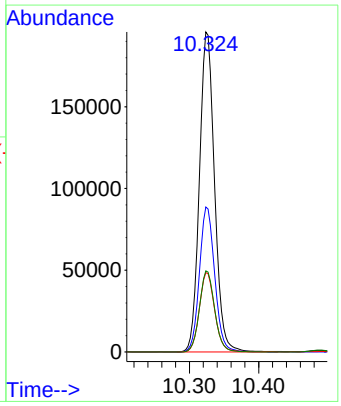




#74
N-amyl acetate
Concen: 61.463 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 43 Resp: 296692

Ion	Ratio	Lower	Upper
43	100		
70	45.7	35.1	52.7
55	25.1	20.5	30.7
61	25.4	19.6	29.4



Instrument :
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ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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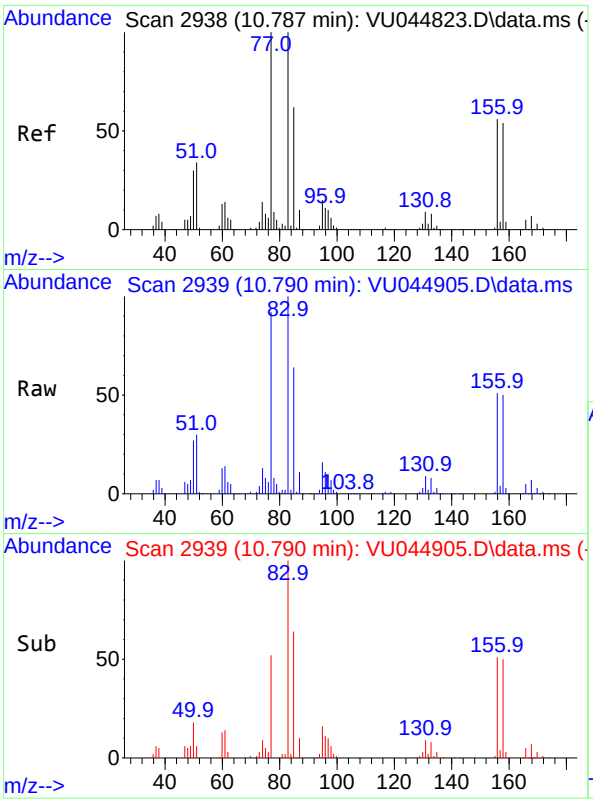
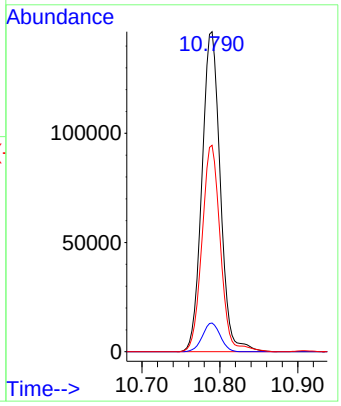
9/28/2021 1:33:39 PM

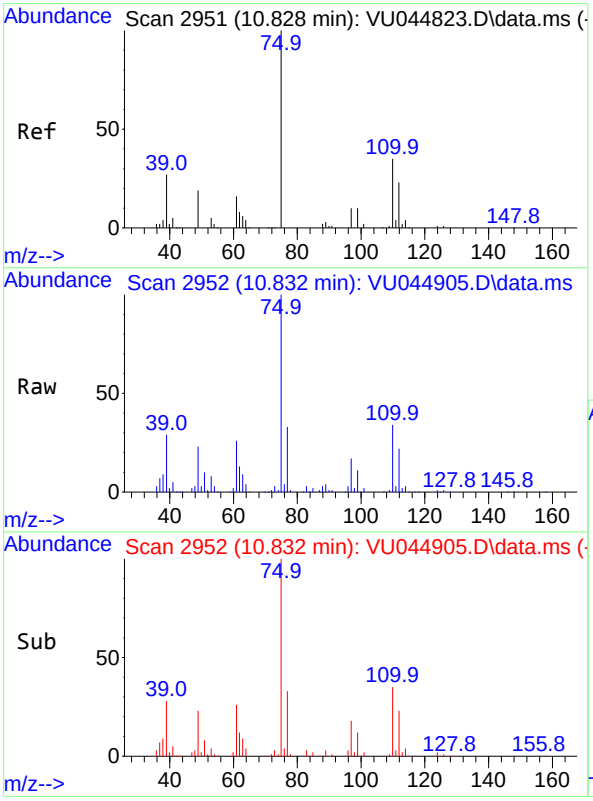


#75
1,1,2,2-Tetrachloroethane
Concen: 55.498 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 83 Resp: 239458

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.3	13.1
85	64.7	31.9	95.5

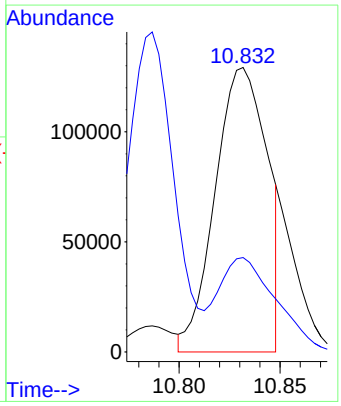




#76
1,2,3-Trichloropropane
Concen: 57.211 ug/l m
RT: 10.832 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 75 Resp: 231173

Ion	Ratio	Lower	Upper
75	100		
77	37.0	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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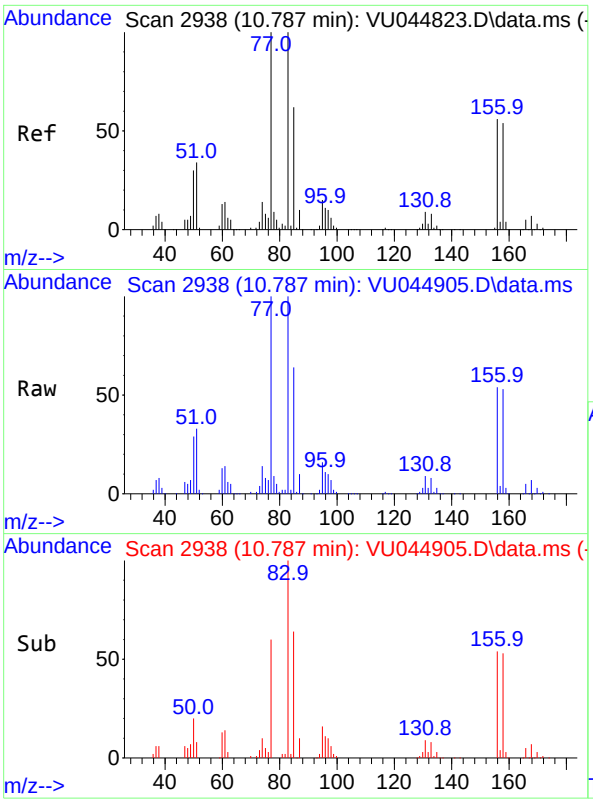
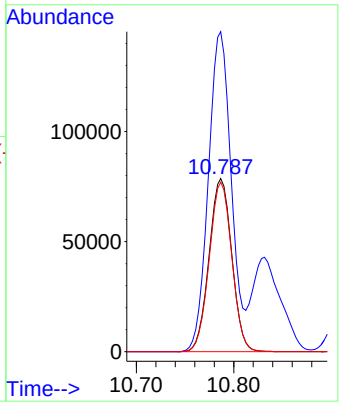
9/28/2021 1:33:39 PM

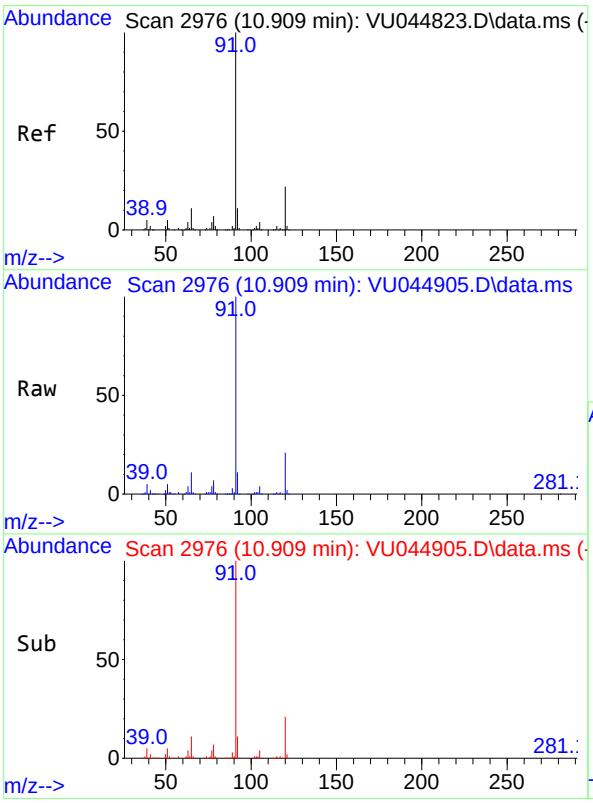


#77
Bromobenzene
Concen: 56.340 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:156 Resp: 127478

Ion	Ratio	Lower	Upper
156	100		
77	186.5	91.1	273.4
158	97.2	48.2	144.6

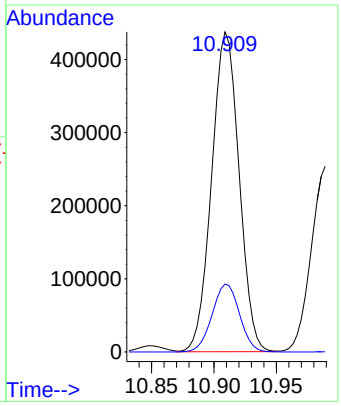




#78
n-propylbenzene
Concen: 58.384 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 91 Resp: 669996

Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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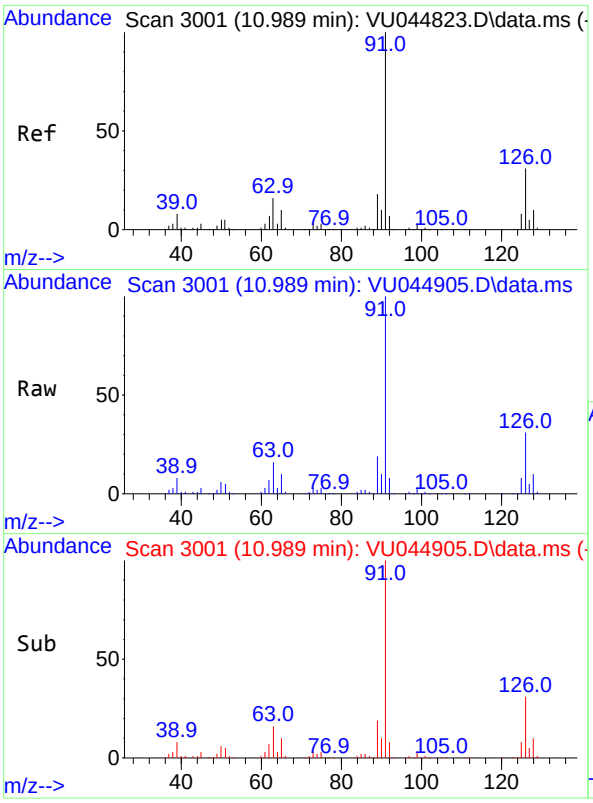
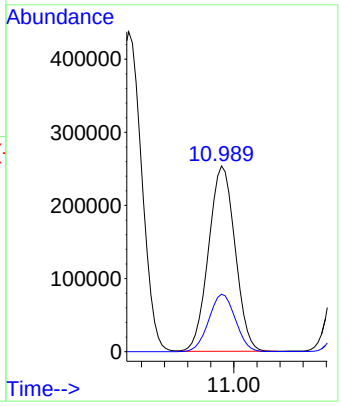
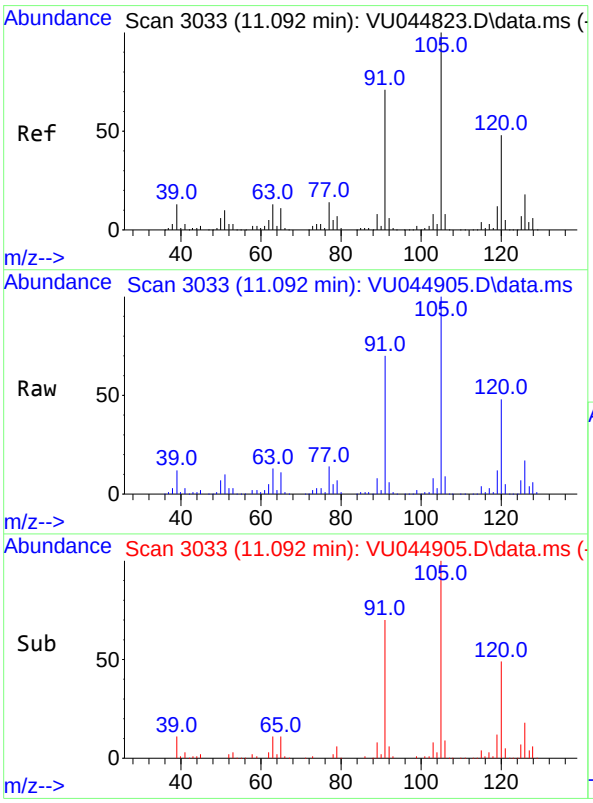


#79
2-Chlorotoluene
Concen: 57.732 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 91 Resp: 403777

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.7	47.0

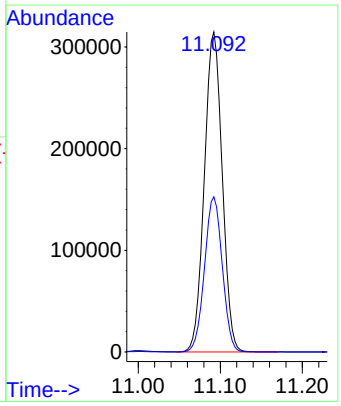




#80
1,3,5-Trimethylbenzene
Concen: 59.513 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:105 Resp: 477429

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.1	72.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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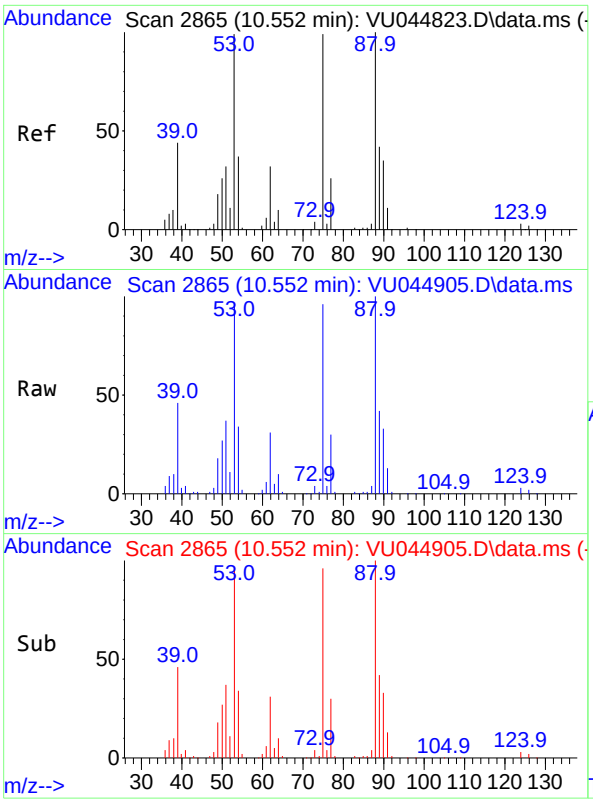
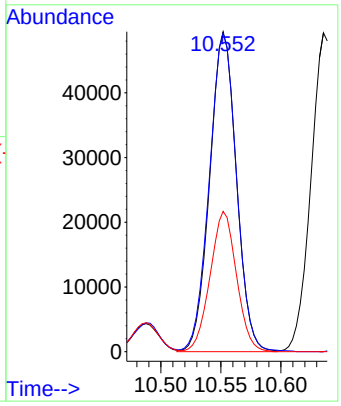
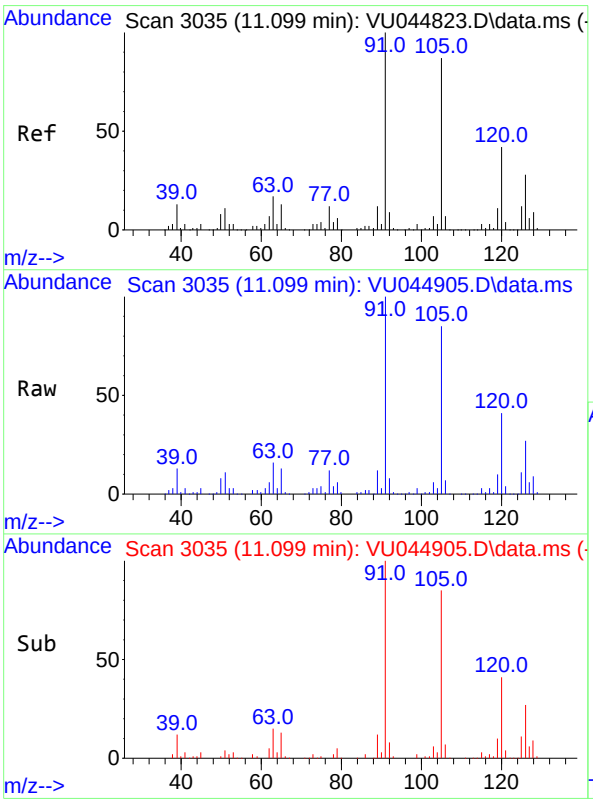


#81
trans-1,4-Dichloro-2-butene
Concen: 61.067 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 75 Resp: 76171

Ion	Ratio	Lower	Upper
75	100		
53	101.8	82.0	123.0
89	43.5	34.2	51.4

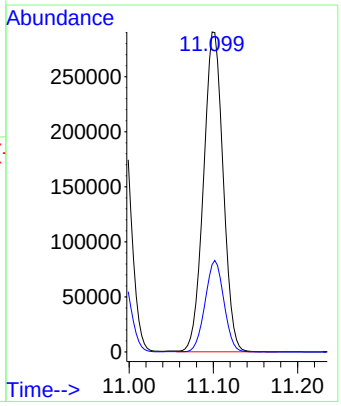




#82
4-Chlorotoluene
Concen: 59.008 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 91 Resp: 469852

Ion	Ratio	Lower	Upper
91	100		
126	27.5	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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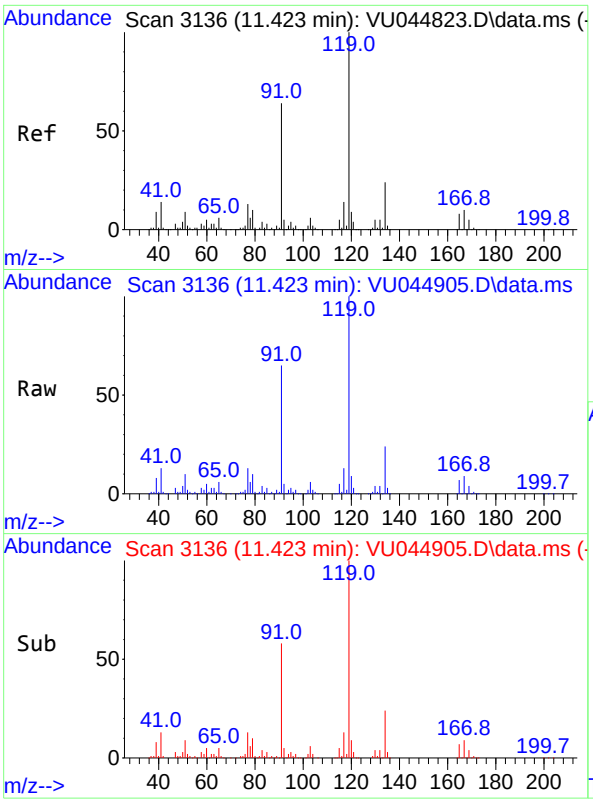
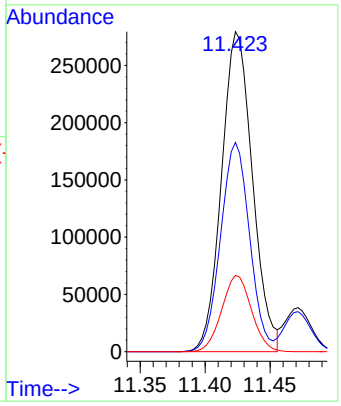
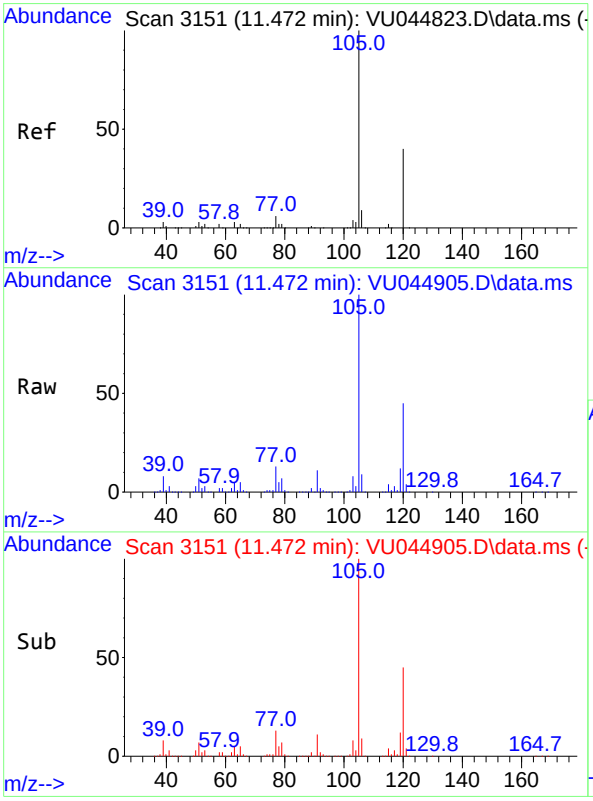


#83
tert-Butylbenzene
Concen: 59.840 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:119 Resp: 463095

Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.4	91.2
134	22.9	11.5	34.5

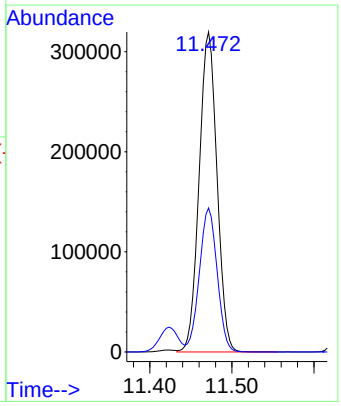




#84
1,2,4-Trimethylbenzene
Concen: 61.039 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:105 Resp: 482749

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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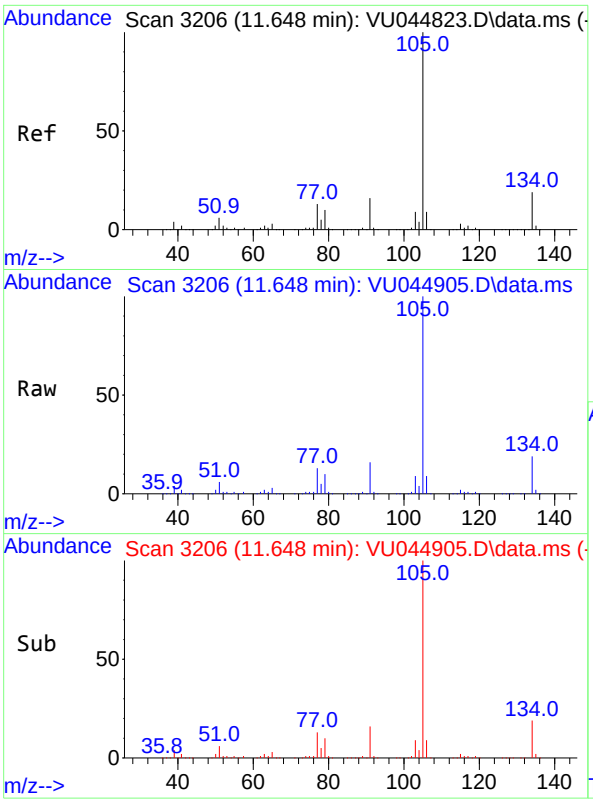
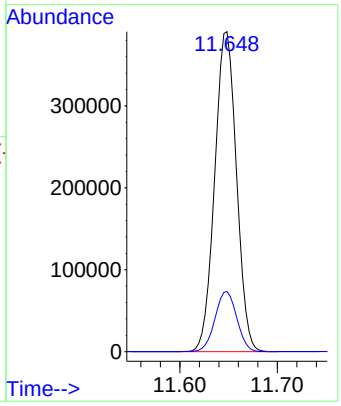
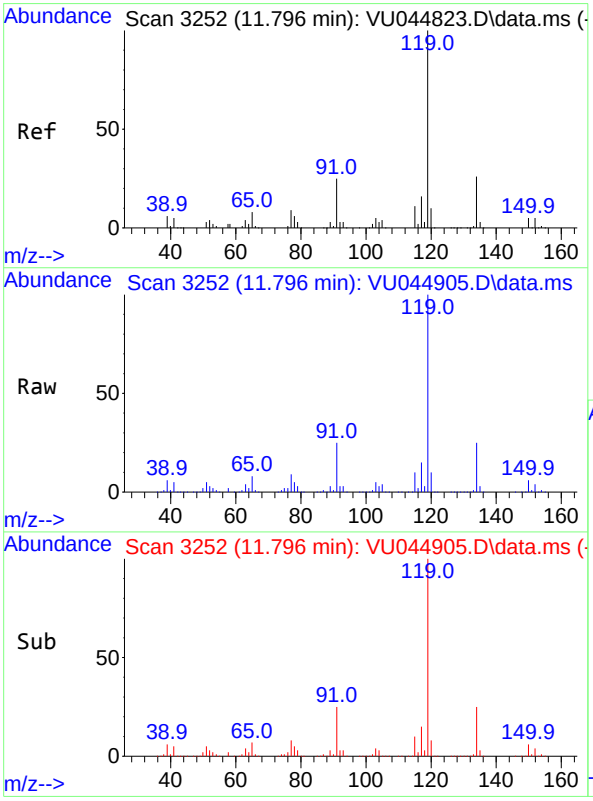


#85
sec-Butylbenzene
Concen: 60.549 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:105 Resp: 605927

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.3	28.0

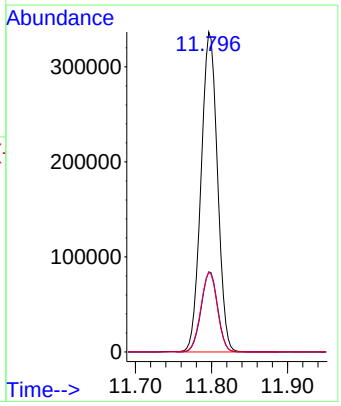




#86
p-Isopropyltoluene
Concen: 61.886 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:119 Resp: 503815

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.3
91	25.1	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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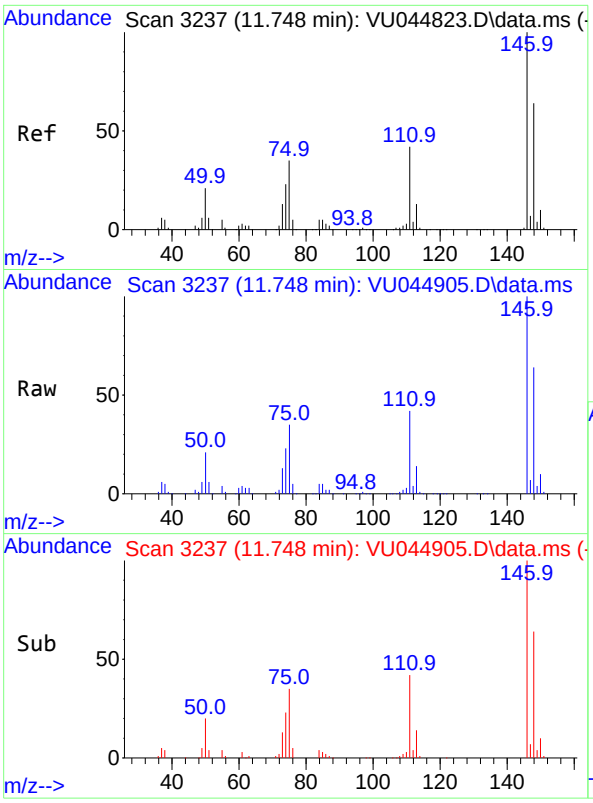
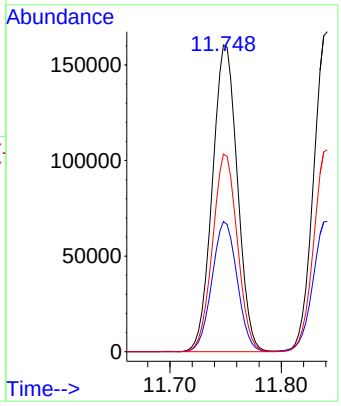
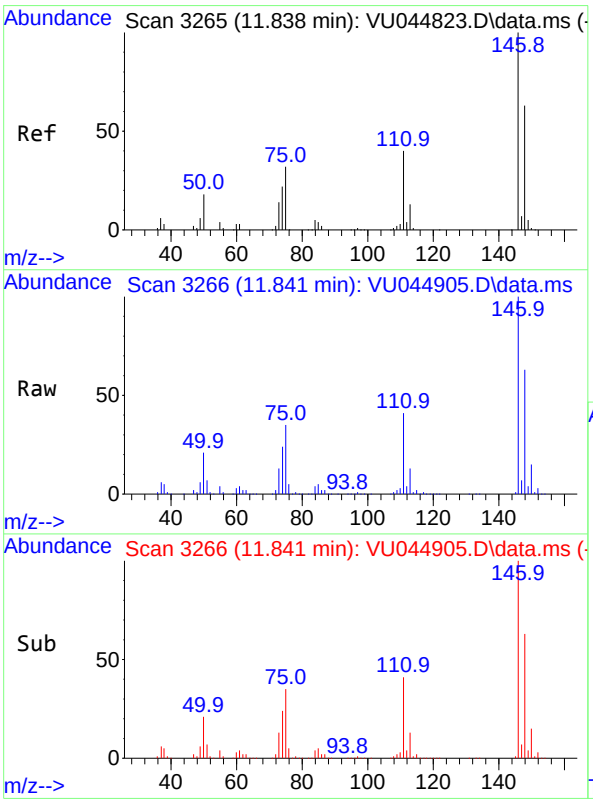


#87
1,3-Dichlorobenzene
Concen: 57.104 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:146 Resp: 250738

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	63.9	32.1	96.3

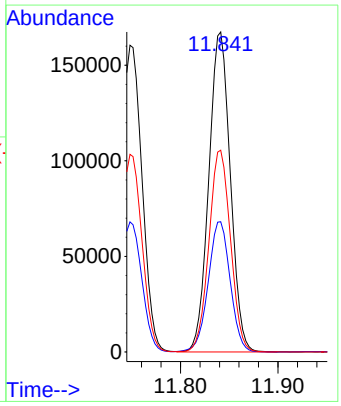




#88
1,4-Dichlorobenzene
Concen: 56.537 ug/l
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:146 Resp: 256725

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.3	61.0
148	63.4	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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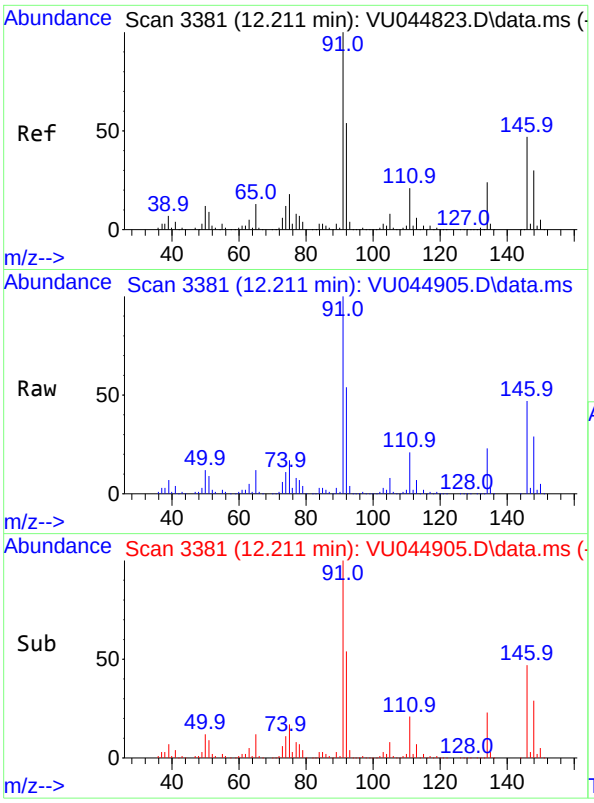
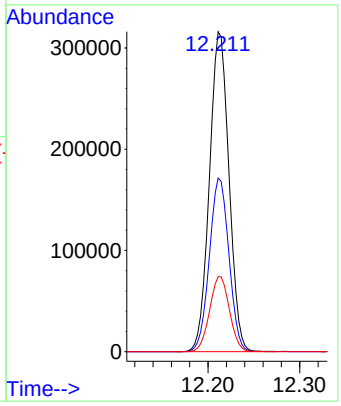
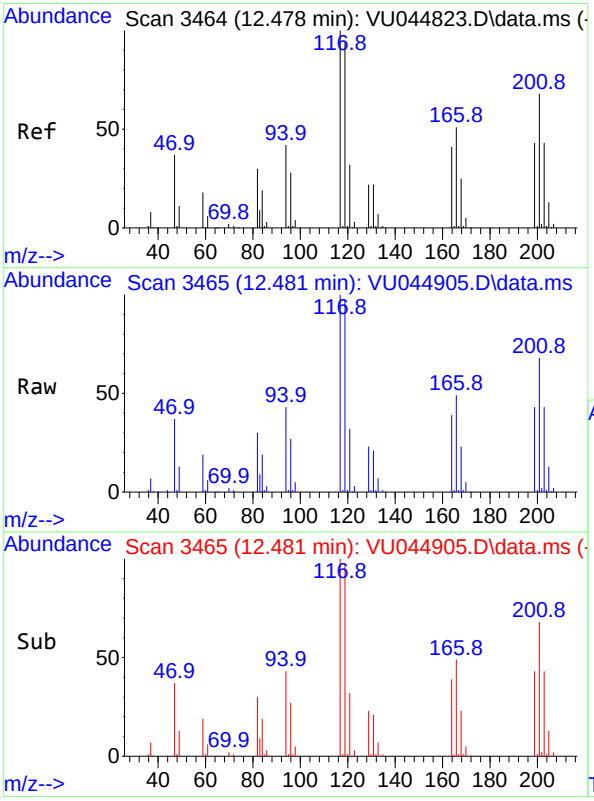


#89
n-Butylbenzene
Concen: 55.622 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 91 Resp: 467664

Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.8	80.4
134	23.8	11.8	35.4

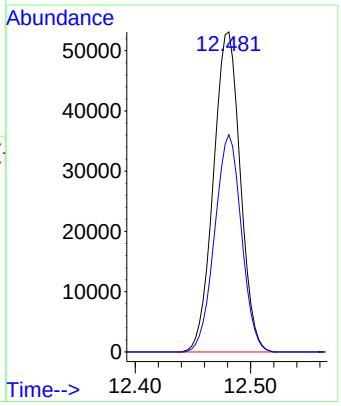




#90
Hexachloroethane
Concen: 58.569 ug/l
RT: 12.481 min Scan# 3465
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:117 Resp: 85919

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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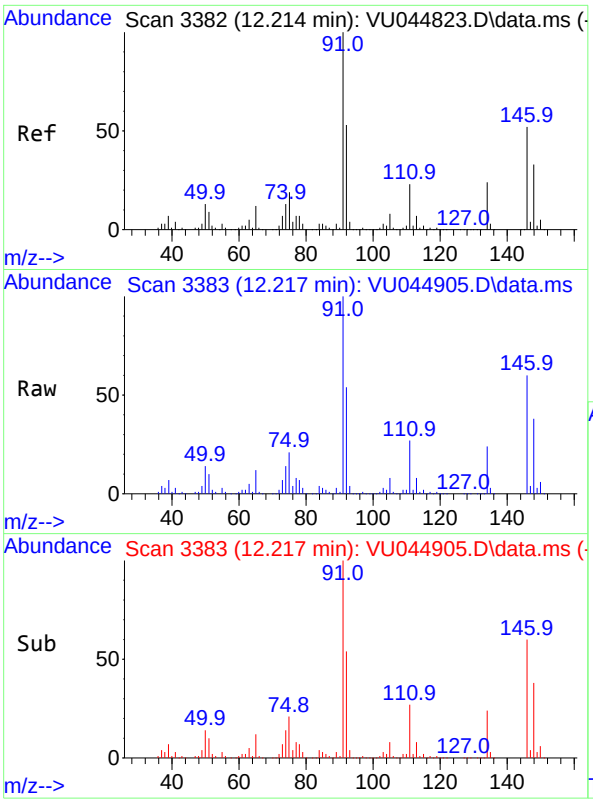
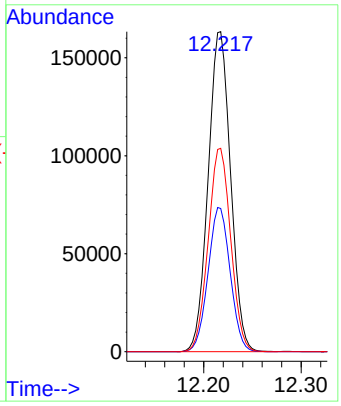
9/28/2021 1:33:39 PM

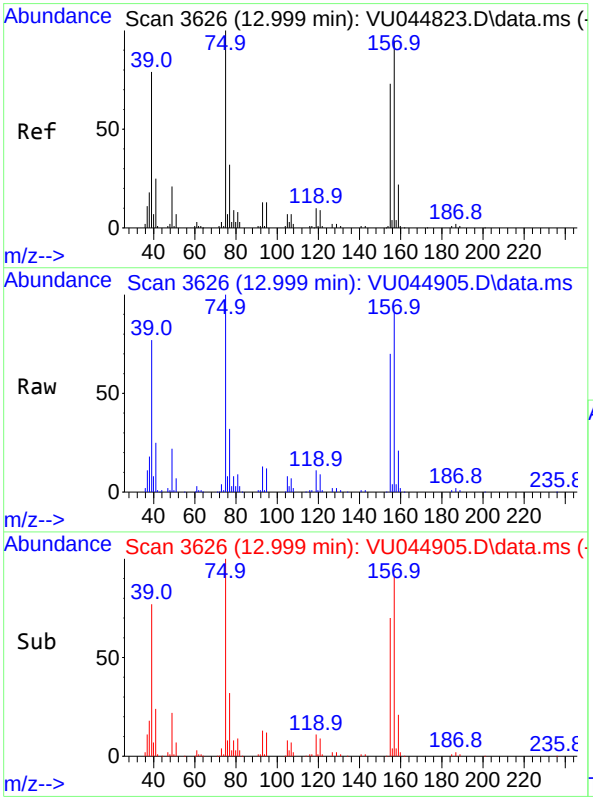


#91
1,2-Dichlorobenzene
Concen: 56.089 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:146 Resp: 260994

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.3
148	63.8	31.8	95.3

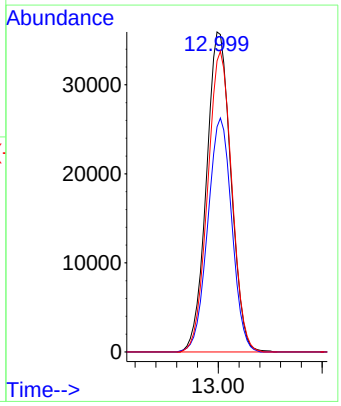




#92
1,2-Dibromo-3-Chloropropane
Concen: 56.171 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion: 75 Resp: 58768

Ion	Ratio	Lower	Upper
75	100		
155	71.8	36.9	110.6
157	92.7	47.8	143.3



Instrument :
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ClientSampleId :
VSTDCCC050

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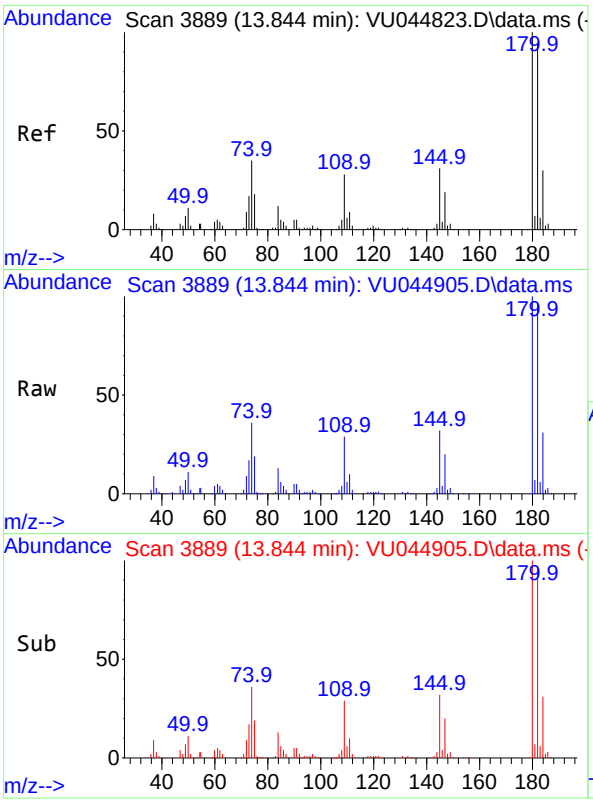
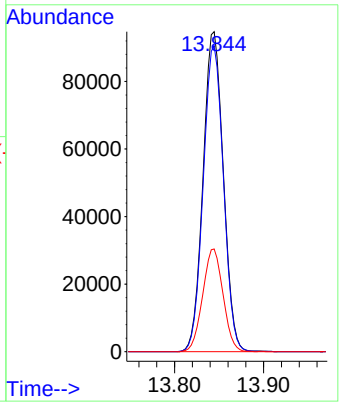
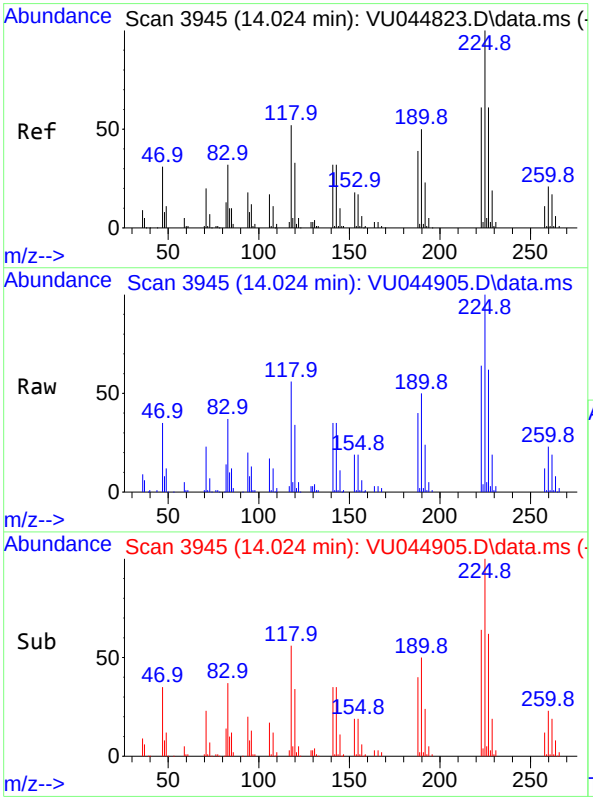


#93
1,2,4-Trichlorobenzene
Concen: 58.200 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:180 Resp: 149645

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.4	142.3
145	32.2	15.4	46.2

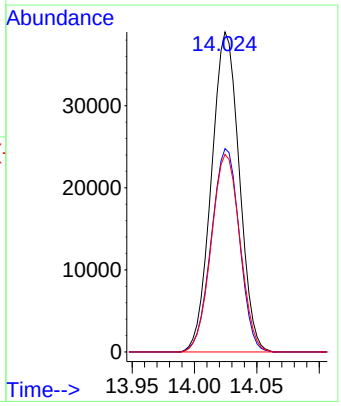




#94
Hexachlorobutadiene
Concen: 53.000 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:225 Resp: 60624

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.1	93.3
227	63.6	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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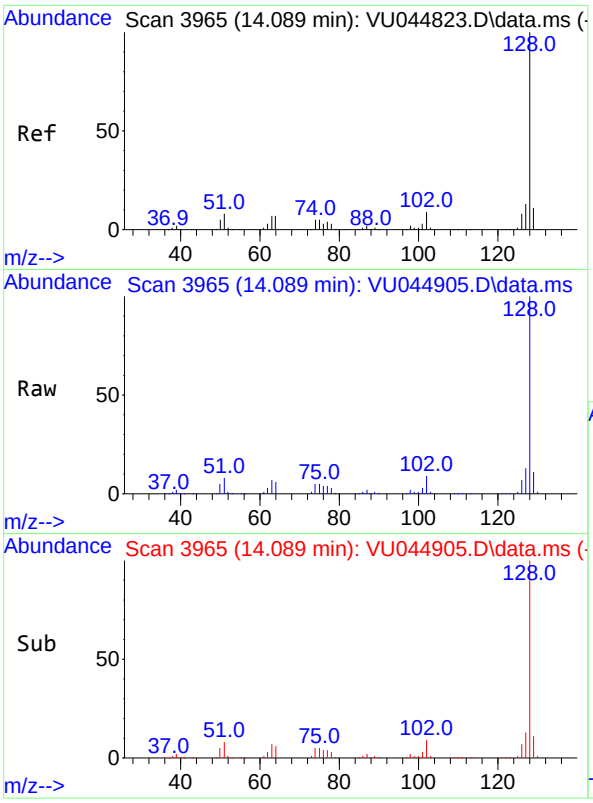
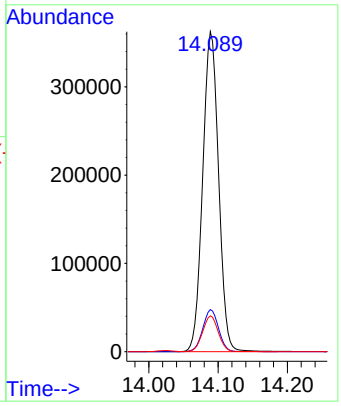
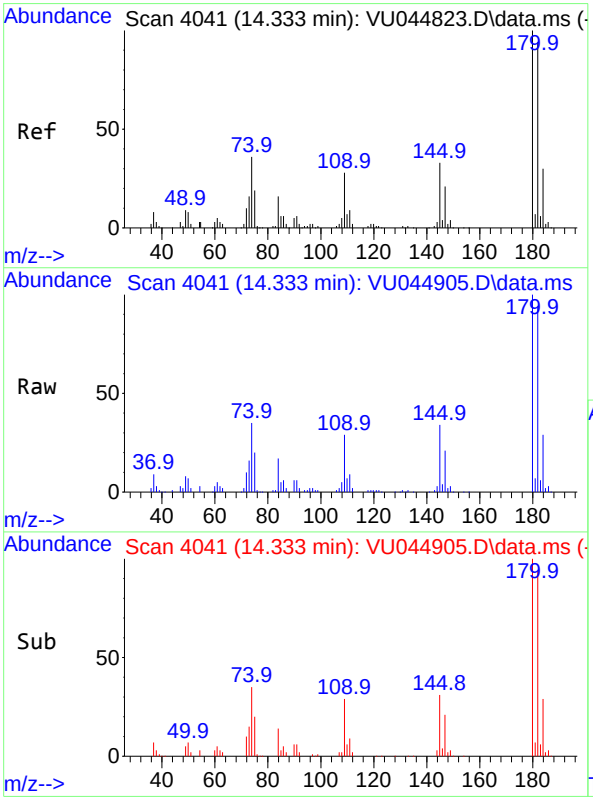


#95
Naphthalene
Concen: 56.078 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:128 Resp: 575143

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.1	8.6	13.0

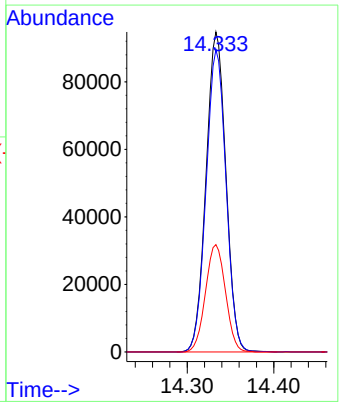




#96
1,2,3-Trichlorobenzene
Concen: 57.645 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU044905.D
Acq: 27 Sep 2021 22:00

Tgt Ion:180 Resp: 150718

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.1	141.4
145	33.8	16.4	49.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	0.599	0.696	-16.2	101	0.00
3	P	Chloromethane	0.909	0.842	7.4	87	0.00
4	C	Vinyl Chloride	0.848	0.886	-4.5#	94	0.00
5	T	Bromomethane	0.450	0.364	19.1	78	0.00
6	T	Chloroethane	0.659	0.552	16.2	88	-0.02
7	T	Trichlorofluoromethane	1.042	1.182	-13.4	102	-0.01
8	T	Diethyl Ether	0.477	0.554	-16.1	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.608	0.679	-11.7	99	0.00
10	T	Methyl Iodide	0.661	0.736	-11.3	93	0.00
11	T	Tert butyl alcohol	0.255	0.264	-3.5	96	0.06
12	CM	1,1-Dichloroethene	0.602	0.680	-13.0#	101	0.00
13	T	Acrolein	0.072	0.071	1.4	93	0.00
14	T	Allyl chloride	1.169	1.237	-5.8	93	0.00
15	T	Acrylonitrile	0.532	0.537	-0.9	88	0.00
16	T	Acetone	0.492	0.462	6.1	87	0.00
17	T	Carbon Disulfide	1.694	1.931	-14.0	103	0.00
18	T	Methyl Acetate	1.644	1.624	1.2	89	0.00
19	T	Methyl tert-butyl Ether	2.248	2.639	-17.4	101	0.00
20	T	Methylene Chloride	0.797	0.831	-4.3	99	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.738	-14.4	101	0.00
22	T	Diisopropyl ether	2.309	2.542	-10.1	95	0.00
23	T	Vinyl Acetate	1.893	2.127	-12.4	95	0.00
24	P	1,1-Dichloroethane	1.340	1.475	-10.1	97	0.00
25	T	2-Butanone	0.747	0.754	-0.9	88	0.00
26	T	2,2-Dichloropropane	1.005	1.090	-8.5	97	0.00
27	T	cis-1,2-Dichloroethene	0.784	0.868	-10.7	99	0.00
28	T	Bromochloromethane	0.637	0.527	17.3	73	0.00
29	T	Tetrahydrofuran	0.470	0.474	-0.9	86	0.00
30	C	Chloroform	1.347	1.469	-9.1#	99	0.00
31	T	Cyclohexane	1.253	1.362	-8.7	100	0.00
32	T	1,1,1-Trichloroethane	1.089	1.229	-12.9	100	0.00
33	S	1,2-Dichloroethane-d4	0.873	0.889	-1.8	92	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.343	0.349	-1.7	95	0.00
36	T	1,1-Dichloropropene	0.531	0.591	-11.3	101	0.00
37	T	Ethyl Acetate	0.778	0.764	1.8	90	0.00
38	T	Carbon Tetrachloride	0.474	0.517	-9.1	96	0.00
39	T	Methylcyclohexane	0.600	0.731	-21.8#	106	0.00
40	TM	Benzene	1.617	1.746	-8.0	98	0.00
41	T	Methacrylonitrile	0.389	0.403	-3.6	90	0.00
42	TM	1,2-Dichloroethane	0.636	0.683	-7.4	99	0.00
43	T	Isopropyl Acetate	1.089	1.166	-7.1	97	0.00
44	TM	Trichloroethene	0.389	0.409	-5.1	99	0.00
45	C	1,2-Dichloropropane	0.438	0.460	-5.0#	93	0.00
46	T	Dibromomethane	0.290	0.314	-8.3	98	0.00
47	T	Bromodichloromethane	0.572	0.607	-6.1	96	0.00
48	T	Methyl methacrylate	0.514	0.562	-9.3	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.013	0.015	-15.4	97	0.00
50	S	Toluene-d8	1.295	1.321	-2.0	93	0.00
51	T	4-Methyl-2-Pentanone	0.776	0.852	-9.8	97	0.00
52	CM	Toluene	0.967	1.089	-12.6#	100	0.00
53	T	t-1,3-Dichloropropene	0.596	0.693	-16.3	101	0.00
54	T	cis-1,3-Dichloropropene	0.646	0.735	-13.8	100	0.00
55	T	1,1,2-Trichloroethane	0.413	0.447	-8.2	99	0.00
56	T	Ethyl methacrylate	0.652	0.817	-25.3#	108	0.00
57	T	1,3-Dichloropropane	0.736	0.804	-9.2	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.251	-73.1#	152#	0.00
59	T	2-Hexanone	0.623	0.702	-12.7	100	0.00
60	T	Dibromochloromethane	0.396	0.438	-10.6	99	0.00
61	T	1,2-Dibromoethane	0.434	0.483	-11.3	101	0.00
62	S	4-Bromofluorobenzene	0.481	0.543	-12.9	106	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.339	0.377	-11.2	98	0.00
65	PM	Chlorobenzene	1.038	1.163	-12.0	102	0.00
66	T	1,1,1,2-Tetrachloroethane	0.370	0.411	-11.1	100	0.00
67	C	Ethyl Benzene	1.853	2.208	-19.2#	103	0.00
68	T	m/p-Xylenes	0.709	0.840	-18.5	101	0.00
69	T	o-Xylene	0.685	0.843	-23.1#	105	0.00
70	T	Styrene	1.150	1.432	-24.5#	105	0.00
71	P	Bromoform	0.306	0.367	-19.9	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.549	4.080	-15.0	105	0.00
74	T	N-amyl acetate	1.809	2.223	-22.9#	113	0.00
75	P	1,1,2,2-Tetrachloroethane	1.617	1.795	-11.0	112	0.00
76	T	1,2,3-Trichloropropane	1.514	1.732	-14.4	114	0.00
77	T	Bromobenzene	0.848	0.955	-12.6	107	0.00
78	T	n-propylbenzene	4.300	5.021	-16.8	106	0.00
79	T	2-Chlorotoluene	2.621	3.026	-15.5	108	0.00
80	T	1,3,5-Trimethylbenzene	3.006	3.578	-19.0	106	0.00
81	T	trans-1,4-Dichloro-2-butene	0.467	0.571	-22.3#	116	0.00
82	T	4-Chlorotoluene	2.984	3.521	-18.0	109	0.00
83	T	tert-Butylbenzene	2.900	3.471	-19.7	110	0.00
84	T	1,2,4-Trimethylbenzene	2.964	3.618	-22.1#	108	0.00
85	T	sec-Butylbenzene	3.750	4.541	-21.1#	108	0.00
86	T	p-Isopropyltoluene	3.051	3.776	-23.8#	109	0.00
87	T	1,3-Dichlorobenzene	1.645	1.879	-14.2	110	0.00
88	T	1,4-Dichlorobenzene	1.701	1.924	-13.1	111	0.00
89	T	n-Butylbenzene	2.805	3.505	-25.0#	110	0.00
90	T	Hexachloroethane	0.550	0.644	-17.1	113	0.00
91	T	1,2-Dichlorobenzene	1.744	1.956	-12.2	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.392	0.440	-12.2	105	0.00
93	T	1,2,4-Trichlorobenzene	0.963	1.121	-16.4	105	0.00
94	T	Hexachlorobutadiene	0.429	0.454	-5.8	100	0.00
95	T	Naphthalene	3.360	4.310	-28.3#	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.980	1.130	-15.3	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	50.000	58.088	-16.2	101	0.00
3	P	Chloromethane	50.000	46.345	7.3	87	0.00
4	C	Vinyl Chloride	50.000	52.222	-4.4#	94	0.00
5	T	Bromomethane	50.000	43.529	12.9	78	0.00
6	T	Chloroethane	50.000	48.499	3.0	88	-0.02
7	T	Trichlorofluoromethane	50.000	56.717	-13.4	102	-0.01
8	T	Diethyl Ether	50.000	58.143	-16.3	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.828	-11.7	99	0.00
10	T	Methyl Iodide	50.000	55.643	-11.3	93	0.00
11	T	Tert butyl alcohol	250.000	259.001	-3.6	96	0.06
12	CM	1,1-Dichloroethene	50.000	56.517	-13.0#	101	0.00
13	T	Acrolein	250.000	259.187	-3.7	93	0.00
14	T	Allyl chloride	50.000	52.941	-5.9	93	0.00
15	T	Acrylonitrile	250.000	252.473	-1.0	88	0.00
16	T	Acetone	250.000	234.499	6.2	87	0.00
17	T	Carbon Disulfide	50.000	57.014	-14.0	103	0.00
18	T	Methyl Acetate	50.000	49.383	1.2	89	0.00
19	T	Methyl tert-butyl Ether	50.000	58.698	-17.4	101	0.00
20	T	Methylene Chloride	50.000	52.169	-4.3	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	57.239	-14.5	101	0.00
22	T	Diisopropyl ether	50.000	55.048	-10.1	95	0.00
23	T	Vinyl Acetate	250.000	280.822	-12.3	95	0.00
24	P	1,1-Dichloroethane	50.000	55.016	-10.0	97	0.00
25	T	2-Butanone	250.000	252.484	-1.0	88	0.00
26	T	2,2-Dichloropropane	50.000	54.225	-8.5	97	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.354	-10.7	99	0.00
28	T	Bromochloromethane	50.000	41.353	17.3	73	0.00
29	T	Tetrahydrofuran	250.000	252.318	-0.9	86	0.00
30	C	Chloroform	50.000	54.500	-9.0#	99	0.00
31	T	Cyclohexane	50.000	54.365	-8.7	100	0.00
32	T	1,1,1-Trichloroethane	50.000	56.431	-12.9	100	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.917	-1.8	92	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	50.885	-1.8	95	0.00
36	T	1,1-Dichloropropene	50.000	55.707	-11.4	101	0.00
37	T	Ethyl Acetate	50.000	49.058	1.9	90	0.00
38	T	Carbon Tetrachloride	50.000	54.483	-9.0	96	0.00
39	T	Methylcyclohexane	50.000	60.908	-21.8#	106	0.00
40	TM	Benzene	50.000	53.965	-7.9	98	0.00
41	T	Methacrylonitrile	50.000	51.817	-3.6	90	0.00
42	TM	1,2-Dichloroethane	50.000	53.635	-7.3	99	0.00
43	T	Isopropyl Acetate	50.000	53.518	-7.0	97	0.00
44	TM	Trichloroethene	50.000	52.624	-5.2	99	0.00
45	C	1,2-Dichloropropane	50.000	52.578	-5.2#	93	0.00
46	T	Dibromomethane	50.000	54.123	-8.2	98	0.00
47	T	Bromodichloromethane	50.000	53.071	-6.1	96	0.00
48	T	Methyl methacrylate	50.000	54.652	-9.3	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1137.110	-13.7	97	0.00
50	S	Toluene-d8	50.000	50.981	-2.0	93	0.00
51	T	4-Methyl-2-Pentanone	250.000	274.316	-9.7	97	0.00
52	CM	Toluene	50.000	56.308	-12.6#	100	0.00
53	T	t-1,3-Dichloropropene	50.000	58.131	-16.3	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.957	-13.9	100	0.00
55	T	1,1,2-Trichloroethane	50.000	54.115	-8.2	99	0.00
56	T	Ethyl methacrylate	50.000	55.240	-10.5	108	0.00
57	T	1,3-Dichloropropane	50.000	54.594	-9.2	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	344.538	-37.8#	152	0.00
59	T	2-Hexanone	250.000	281.658	-12.7	100	0.00
60	T	Dibromochloromethane	50.000	55.356	-10.7	99	0.00
61	T	1,2-Dibromoethane	50.000	55.588	-11.2	101	0.00
62	S	4-Bromofluorobenzene	50.000	56.401	-12.8	106	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	55.584	-11.2	98	0.00
65	PM	Chlorobenzene	50.000	56.019	-12.0	102	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.554	-11.1	100	0.00
67	C	Ethyl Benzene	50.000	59.594	-19.2#	103	0.00
68	T	m/p-Xylenes	100.000	118.606	-18.6	101	0.00
69	T	o-Xylene	50.000	61.508	-23.0#	105	0.00
70	T	Styrene	50.000	55.785	-11.6	105	0.00
71	P	Bromoform	50.000	59.938	-19.9	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	57.480	-15.0	105	0.00
74	T	N-amyl acetate	50.000	61.463	-22.9#	113	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	55.498	-11.0	112	0.00
76	T	1,2,3-Trichloropropane	50.000	57.211	-14.4	114	0.00
77	T	Bromobenzene	50.000	56.340	-12.7	107	0.00
78	T	n-propylbenzene	50.000	58.384	-16.8	106	0.00
79	T	2-Chlorotoluene	50.000	57.732	-15.5	108	0.00
80	T	1,3,5-Trimethylbenzene	50.000	59.513	-19.0	106	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	61.067	-22.1#	116	0.00
82	T	4-Chlorotoluene	50.000	59.008	-18.0	109	0.00
83	T	tert-Butylbenzene	50.000	59.840	-19.7	110	0.00
84	T	1,2,4-Trimethylbenzene	50.000	61.039	-22.1#	108	0.00
85	T	sec-Butylbenzene	50.000	60.549	-21.1#	108	0.00
86	T	p-Isopropyltoluene	50.000	61.886	-23.8#	109	0.00
87	T	1,3-Dichlorobenzene	50.000	57.104	-14.2	110	0.00
88	T	1,4-Dichlorobenzene	50.000	56.537	-13.1	111	0.00
89	T	n-Butylbenzene	50.000	55.622	-11.2	110	0.00
90	T	Hexachloroethane	50.000	58.569	-17.1	113	0.00
91	T	1,2-Dichlorobenzene	50.000	56.089	-12.2	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	56.171	-12.3	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	58.200	-16.4	105	0.00
94	T	Hexachlorobutadiene	50.000	53.000	-6.0	100	0.00
95	T	Naphthalene	50.000	56.078	-12.2	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044905.D
Acq On : 27 Sep 2021 22:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC050

Quant Time: Sep 28 06:29:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	57.645	-15.3	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH

QC SAMPLE DATA

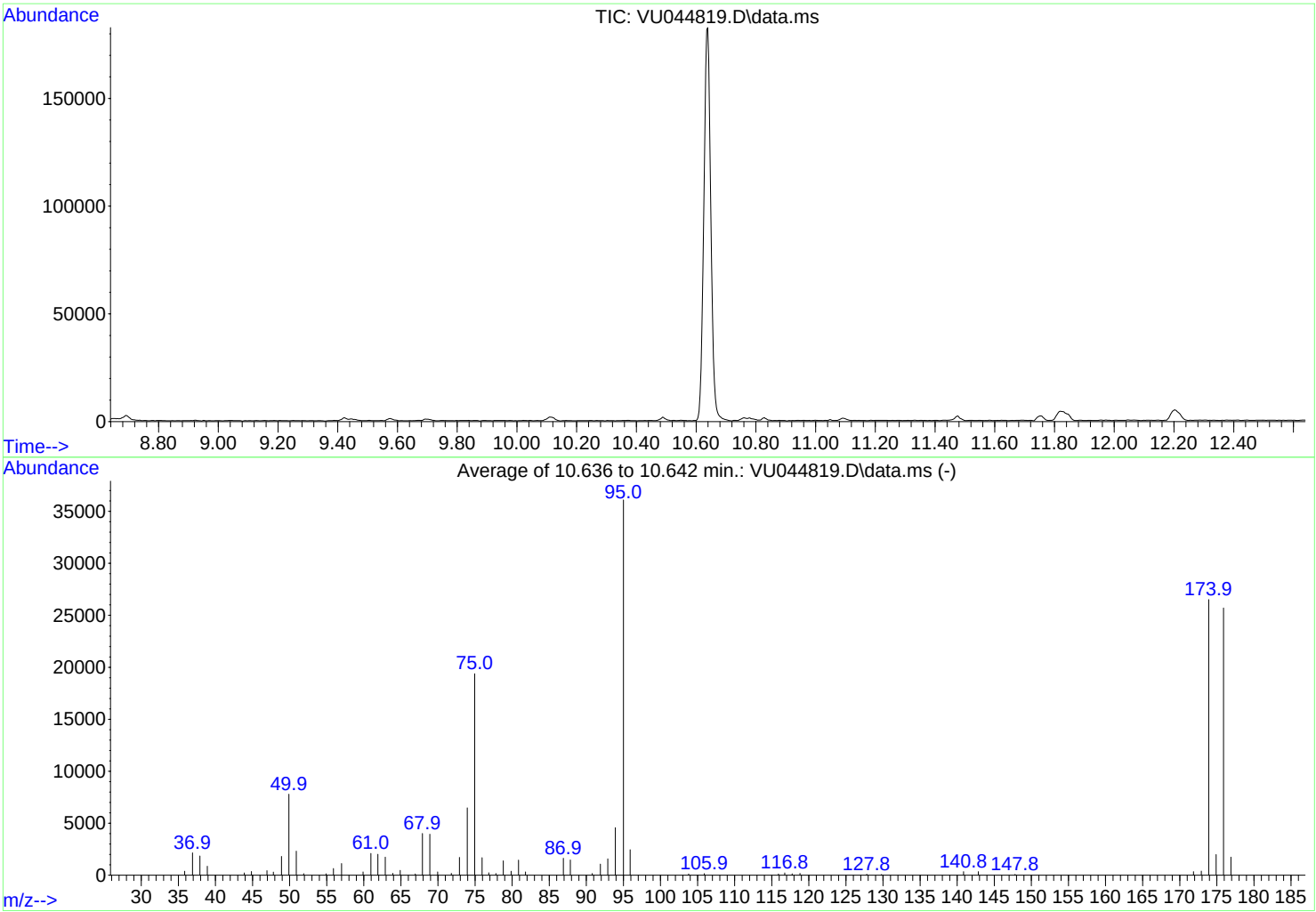
Sample Results: **VU044819.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044819.D
Acq On : 24 Sep 2021 18:32
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260
Last Update : Tue Sep 28 11:39:06 2021



AutoFind: Scans 2891, 2892, 2893; Background Corrected with Scan 2878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	7786	PASS
75	95	30	60	53.7	19384	PASS
95	95	100	100	100.0	36101	PASS
96	95	5	9	6.8	2451	PASS
173	174	0.00	2	1.5	404	PASS
174	95	50	100	73.4	26507	PASS
175	174	5	9	7.5	1989	PASS
176	174	95	101	97.0	25701	PASS
177	176	5	9	6.8	1742	PASS

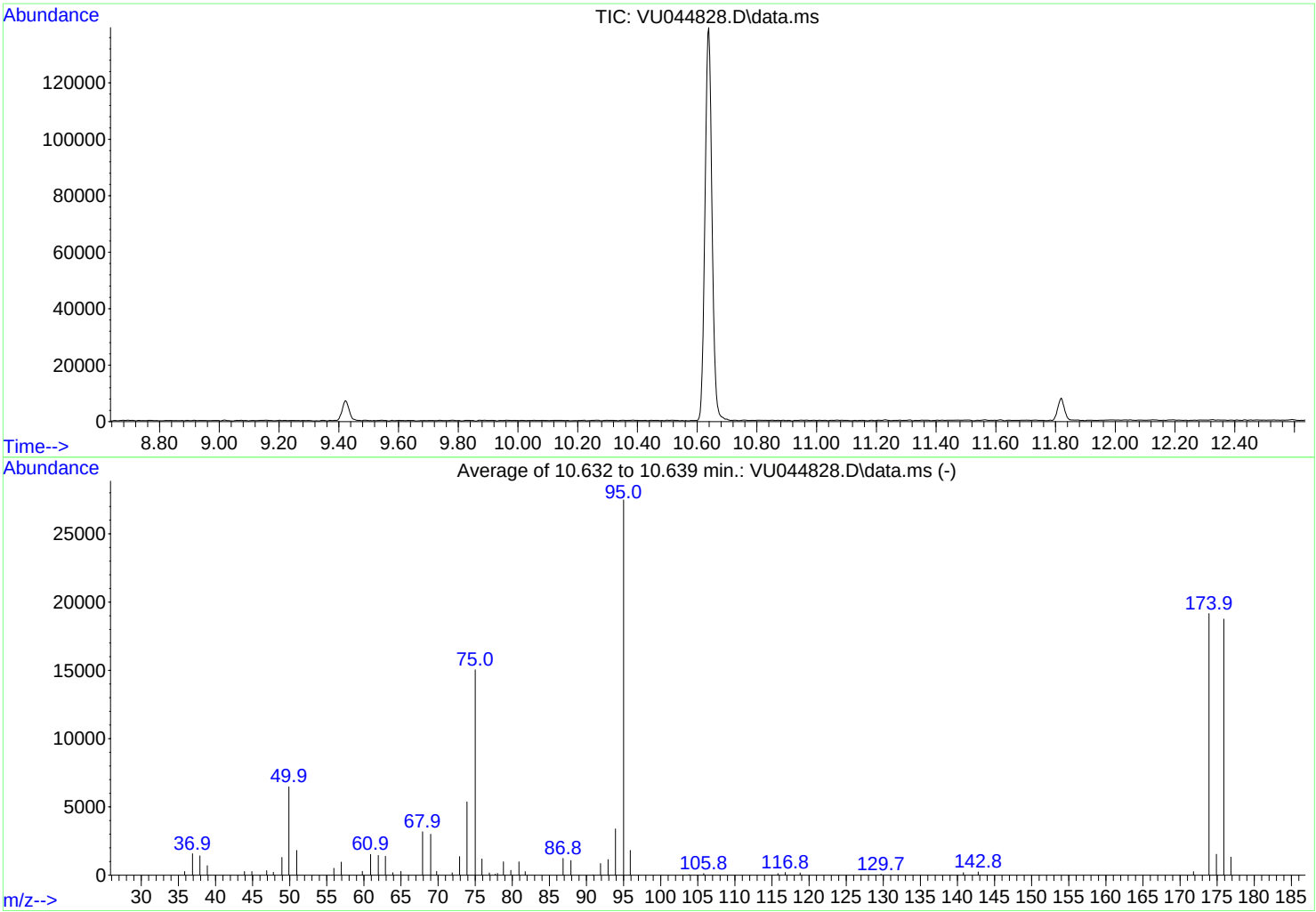
Sample Results: **VU044828.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044828.D
Acq On : 25 Sep 2021 11:46
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260
Last Update : Tue Sep 28 11:39:06 2021



AutoFind: Scans 2890, 2891, 2892; Background Corrected with Scan 2878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	6474	PASS
75	95	30	60	54.7	15040	PASS
95	95	100	100	100.0	27485	PASS
96	95	5	9	6.6	1818	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.7	19160	PASS
175	174	5	9	8.0	1530	PASS
176	174	95	101	97.9	18752	PASS
177	176	5	9	7.1	1329	PASS

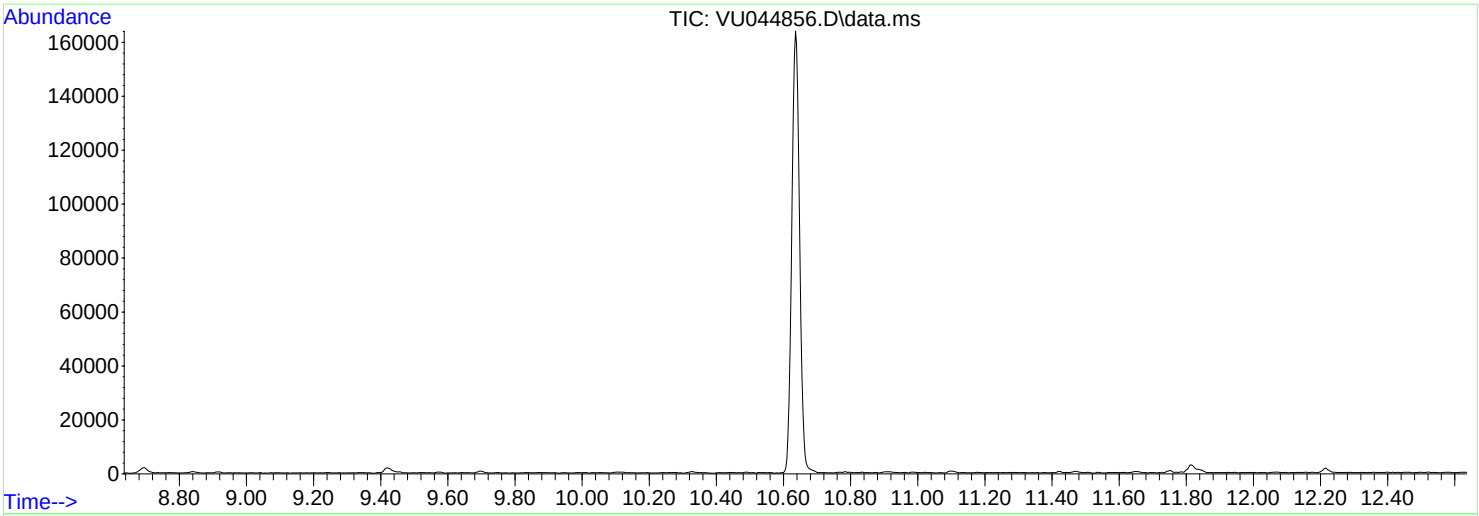
Sample Results: **VU044856.D**

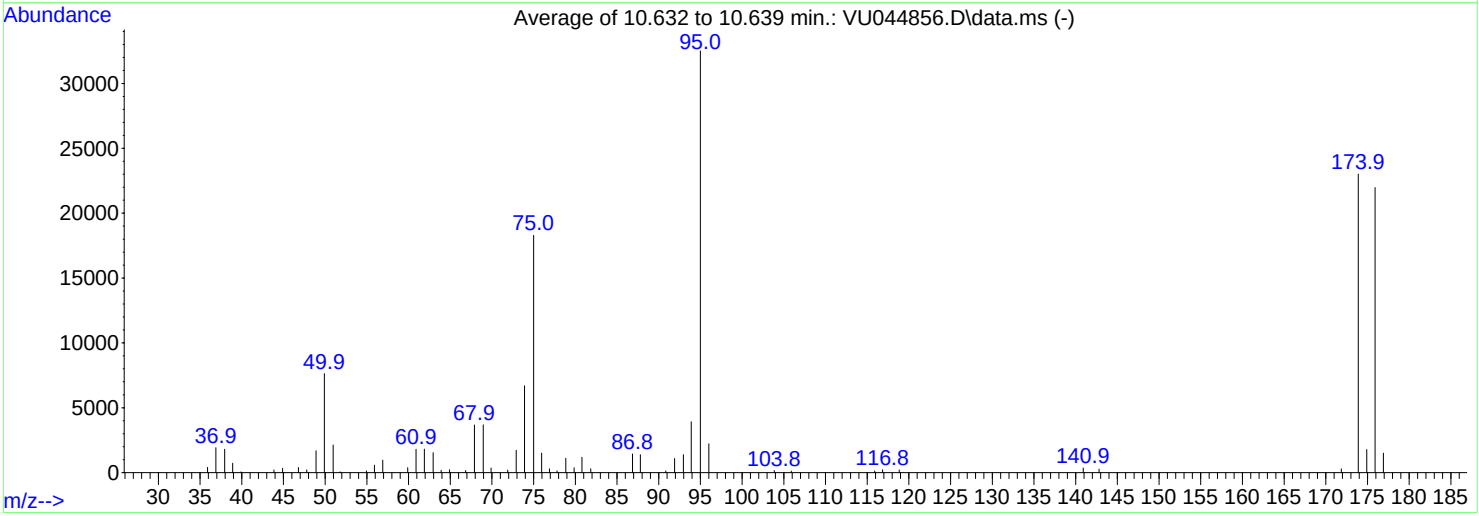
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044856.D
Acq On : 25 Sep 2021 23:12
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260
Last Update : Tue Sep 28 11:39:06 2021





AutoFind: Scans 2890, 2891, 2892; Background Corrected with Scan 2878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	7633	PASS
75	95	30	60	56.3	18293	PASS
95	95	100	100	100.0	32512	PASS
96	95	5	9	6.8	2218	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.8	23011	PASS
175	174	5	9	7.7	1780	PASS
176	174	95	101	95.5	21979	PASS
177	176	5	9	6.9	1506	PASS

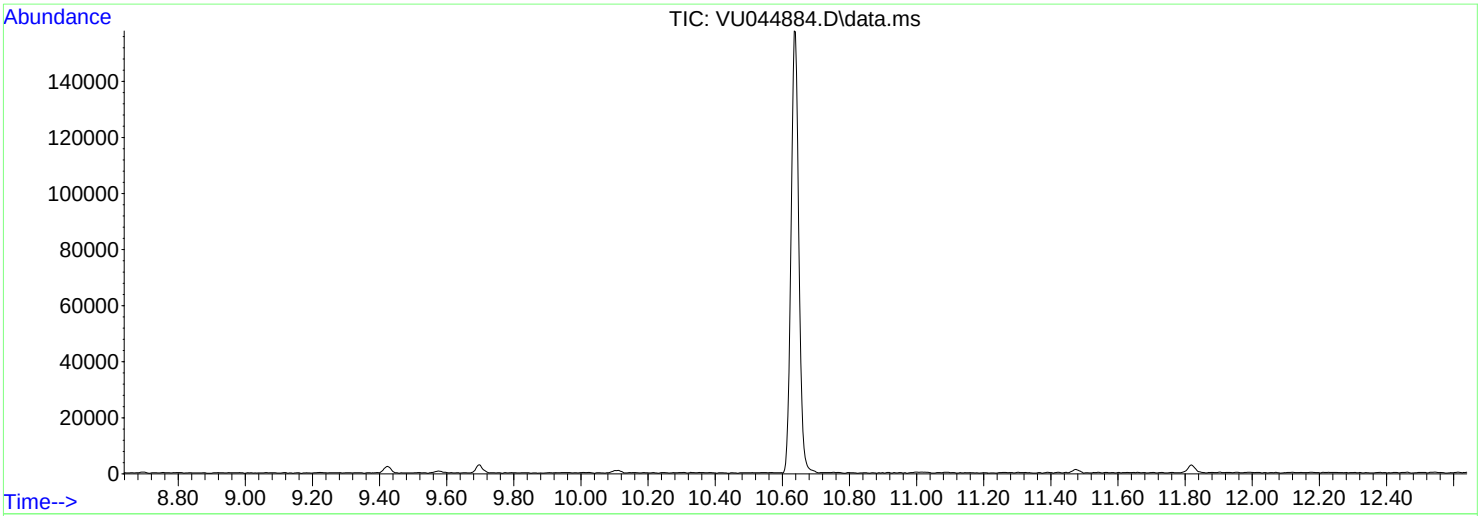
Sample Results: **VU044884.D**

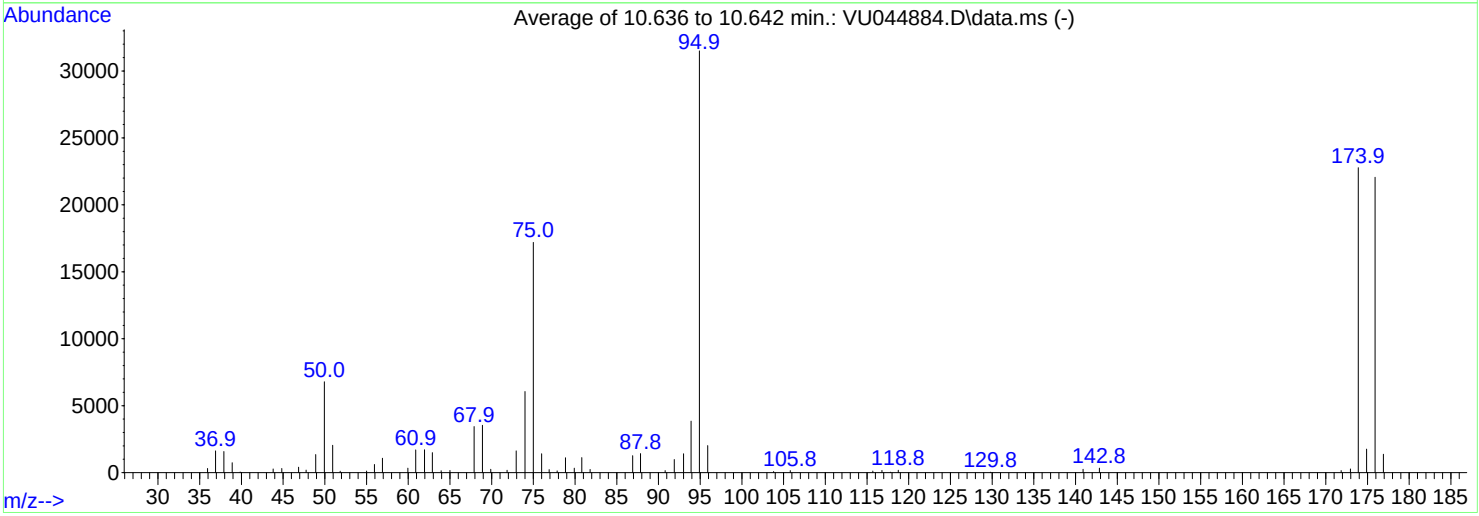
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044884.D
Acq On : 27 Sep 2021 09:13
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260
Last Update : Tue Sep 28 11:39:06 2021





AutoFind: Scans 2891, 2892, 2893; Background Corrected with Scan 2878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	6788	PASS
75	95	30	60	54.6	17201	PASS
95	95	100	100	100.0	31504	PASS
96	95	5	9	6.4	2017	PASS
173	174	0.00	2	1.2	280	PASS
174	95	50	100	72.3	22779	PASS
175	174	5	9	7.7	1753	PASS
176	174	95	101	96.8	22061	PASS
177	176	5	9	6.3	1379	PASS

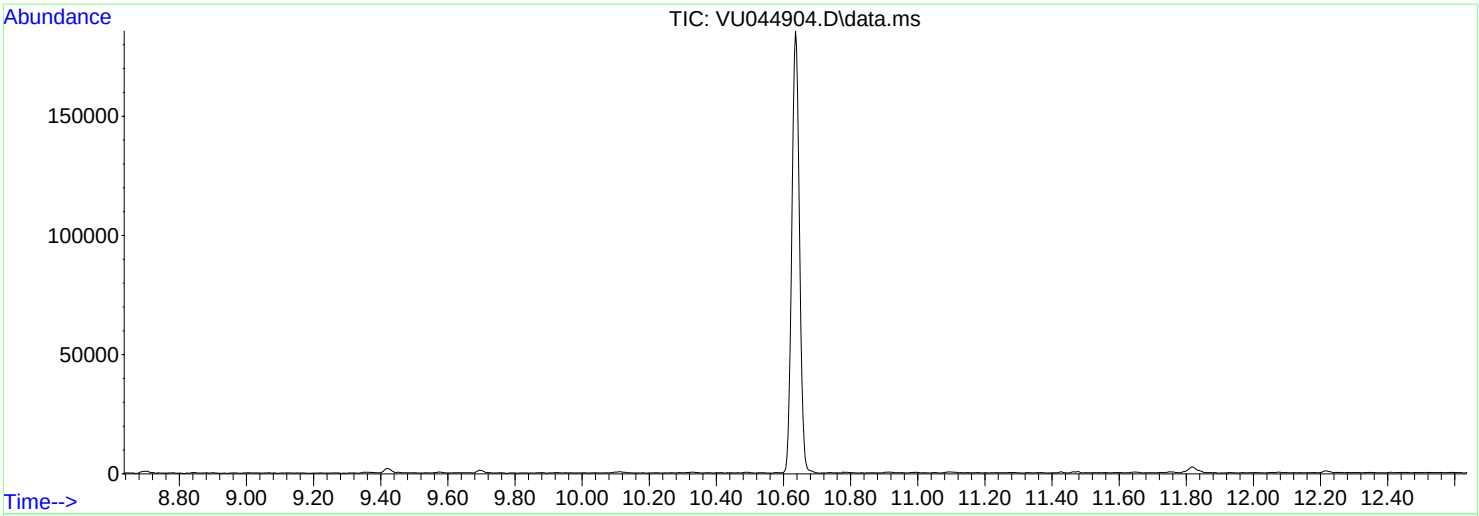
Sample Results: **VU044904.D**

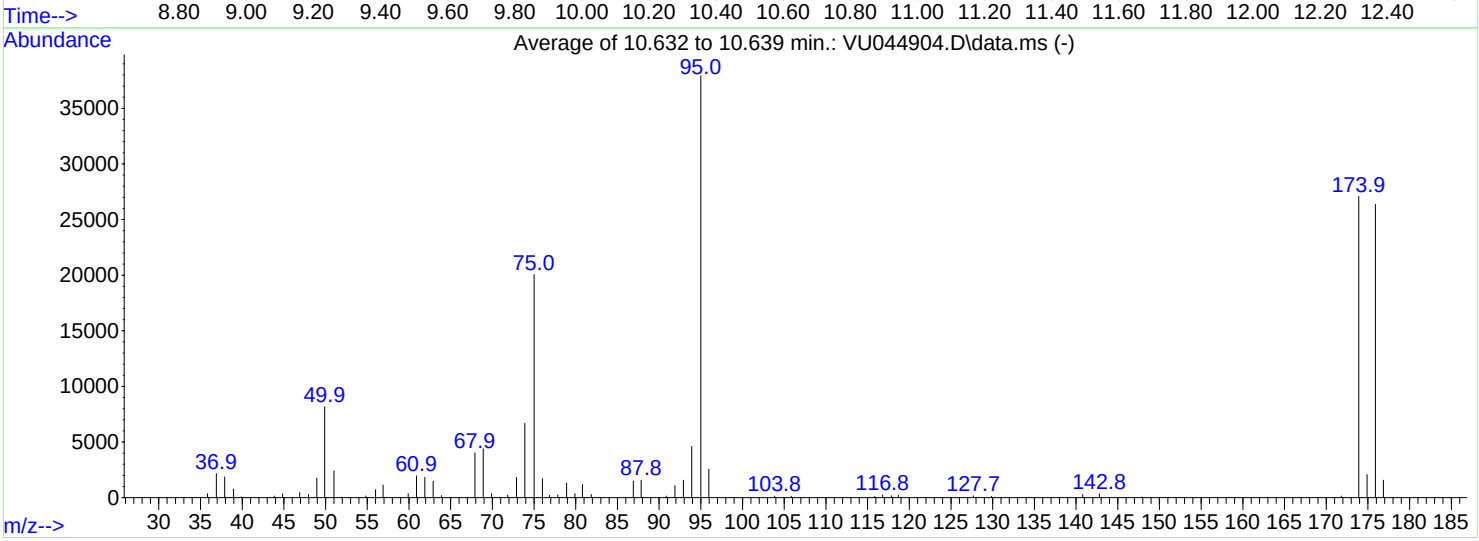
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044904.D
Acq On : 27 Sep 2021 21:37
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260
Last Update : Tue Sep 28 11:39:06 2021





AutoFind: Scans 2890, 2891, 2892; Background Corrected with Scan 2877

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	8170	PASS
75	95	30	60	52.9	20059	PASS
95	95	100	100	100.0	37920	PASS
96	95	5	9	6.7	2548	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.4	27083	PASS
175	174	5	9	7.6	2066	PASS
176	174	95	101	97.4	26368	PASS
177	176	5	9	6.0	1570	PASS

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBL01	SDG No.:	M3859
Lab Sample ID:	VU0925WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044831.D	1		09/25/21 13:05	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBL01	SDG No.:	M3859
Lab Sample ID:	VU0925WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044831.D	1		09/25/21 13:05	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		78 - 117	98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	49.0		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		83 - 123	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	5.378			
540-36-3	1,4-Difluorobenzene	323000	6.253			
3114-55-4	Chlorobenzene-d5	301000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	136000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBL01	SDG No.:	M3859
Lab Sample ID:	VU0925WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044831.D	1		09/25/21 13:05	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044831.D
Acq On : 25 Sep 2021 13:05
Operator : SY/MD
Sample : VU0925WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VU0925WBL01

Quant Time: Sep 27 01:29:13 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	181791	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	322727	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	301046	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	135765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	154890	48.819	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.640%		
35) Dibromofluoromethane	5.295	113	105003	47.428	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.860%		
50) Toluene-d8	7.902	98	410127	49.049	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.100%		
62) 4-Bromofluorobenzene	10.635	95	141596	45.592	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.180%		

Target Compounds Qvalue

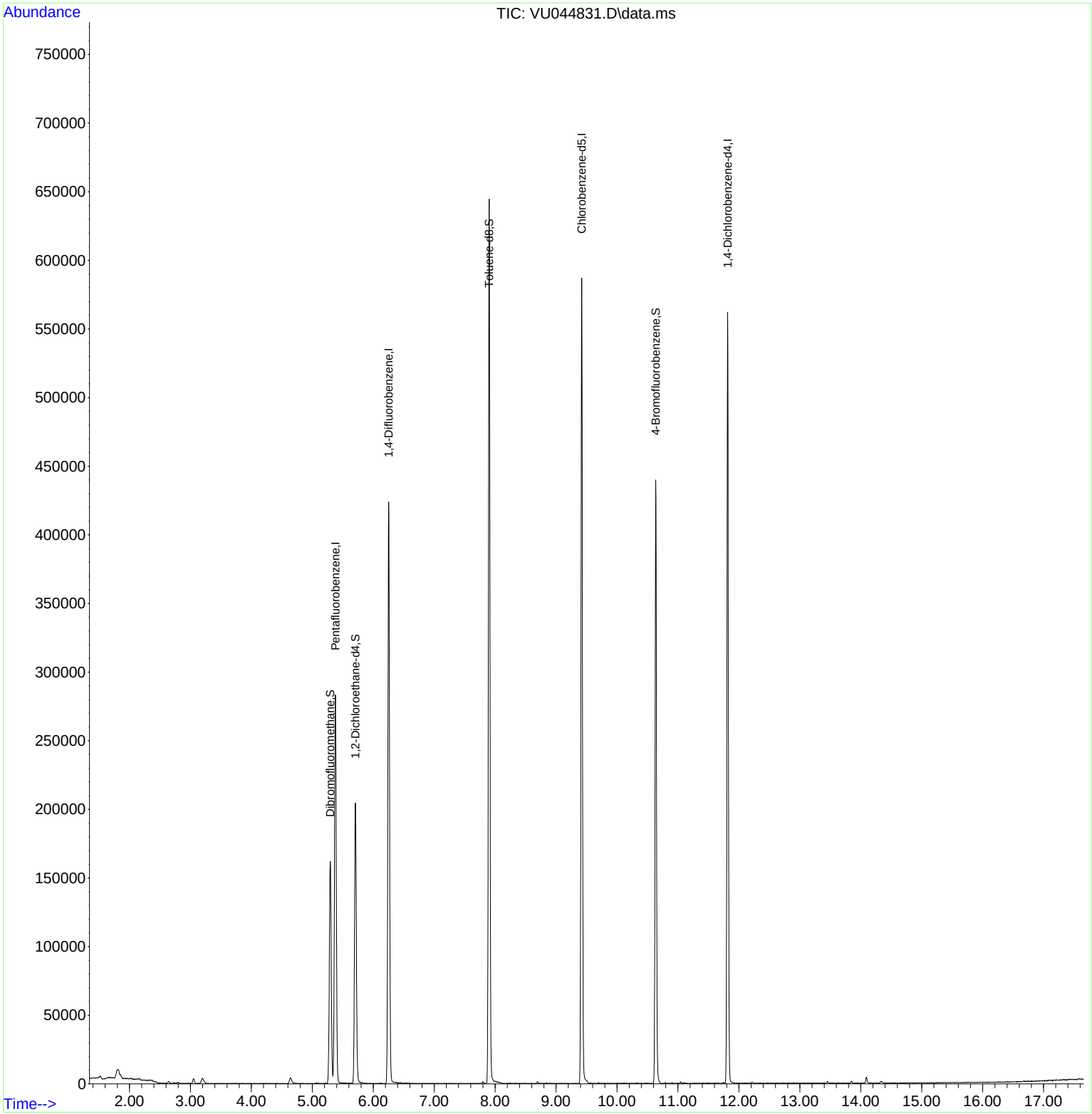
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VU044831.D**

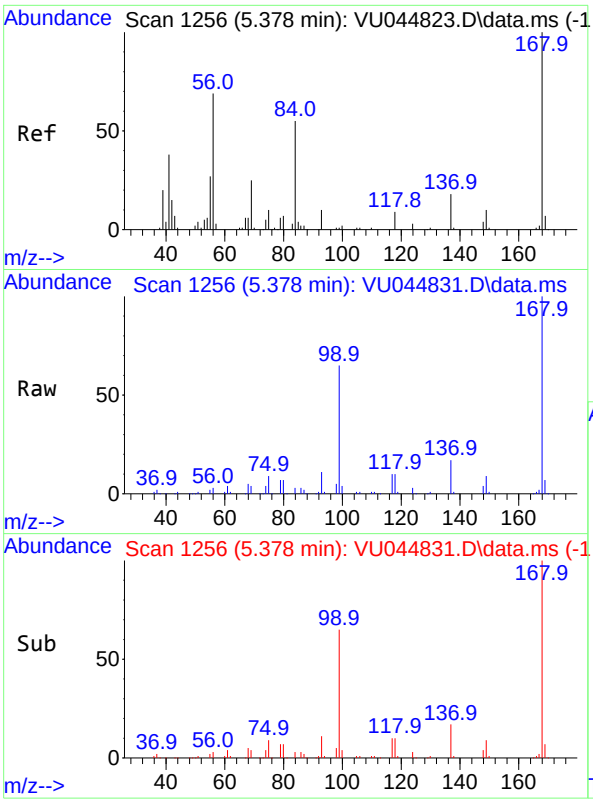
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044831.D
Acq On : 25 Sep 2021 13:05
Operator : SY/MD
Sample : VU0925WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

Quant Time: Sep 27 01:29:13 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



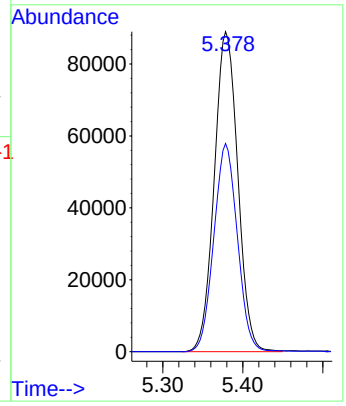
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

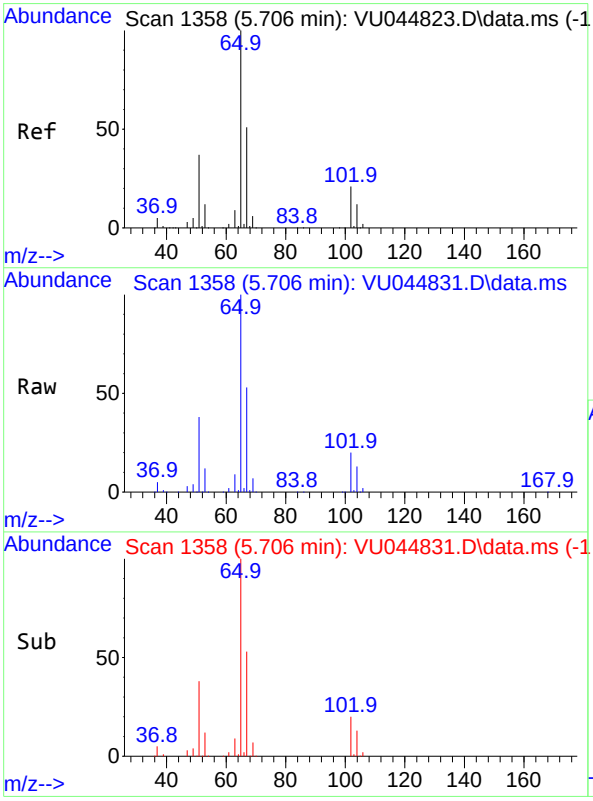


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion:168 Resp: 181791

Ion	Ratio	Lower	Upper
168	100		
99	65.0	51.4	77.0

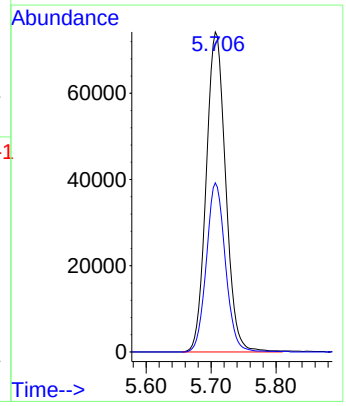




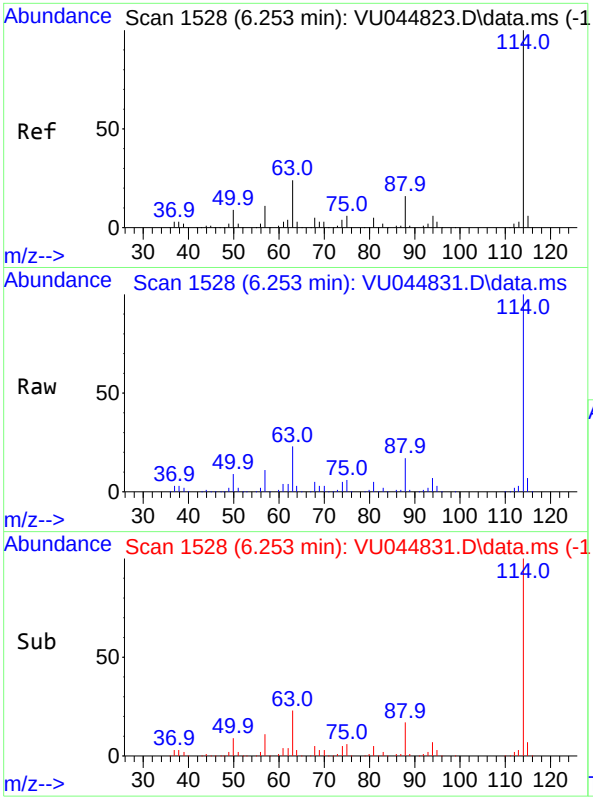
#33
1,2-Dichloroethane-d4
Concen: 48.819 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion: 65 Resp: 154890

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.8



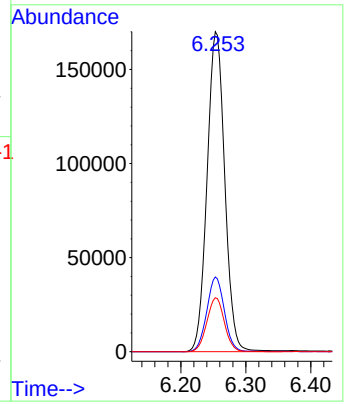
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

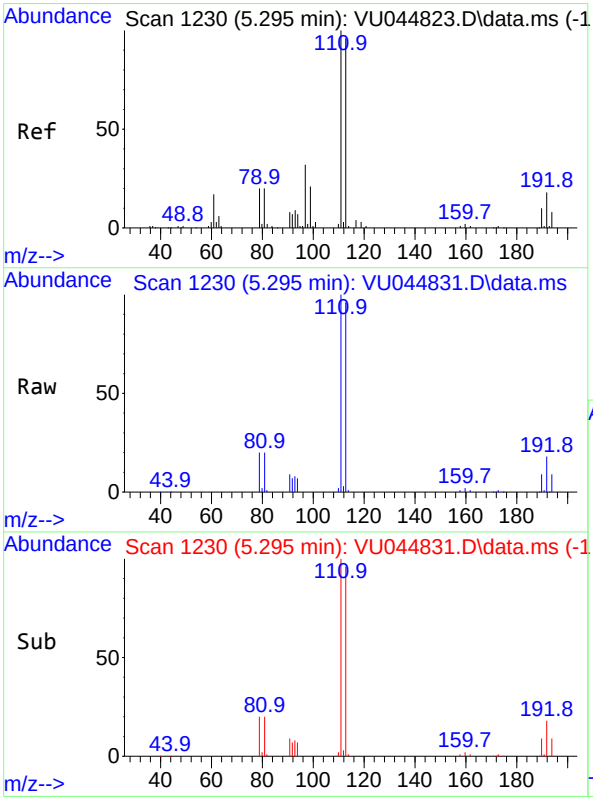


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion:114 Resp: 322727

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	47.8
88	16.9	0.0	32.8

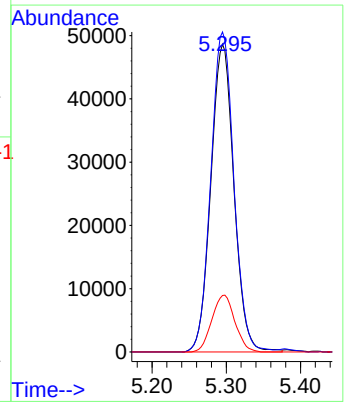




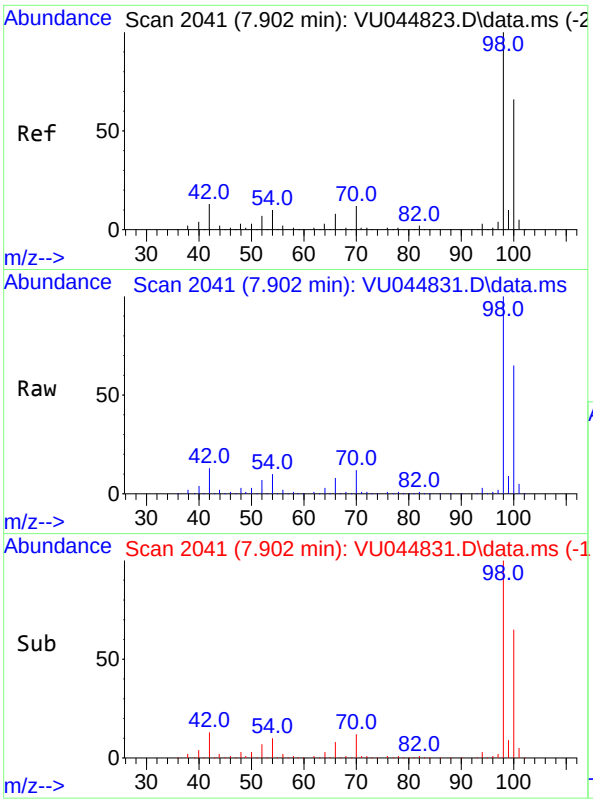
#35
Dibromofluoromethane
Concen: 47.428 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion:113 Resp: 105003

Ion	Ratio	Lower	Upper
113	100		
111	104.0	84.1	126.1
192	18.4	14.8	22.2



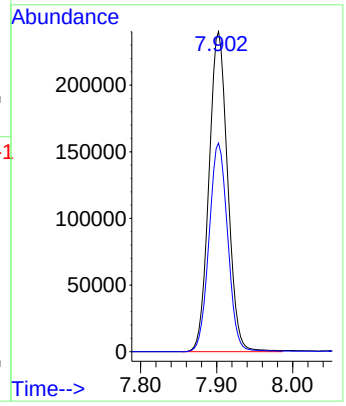
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

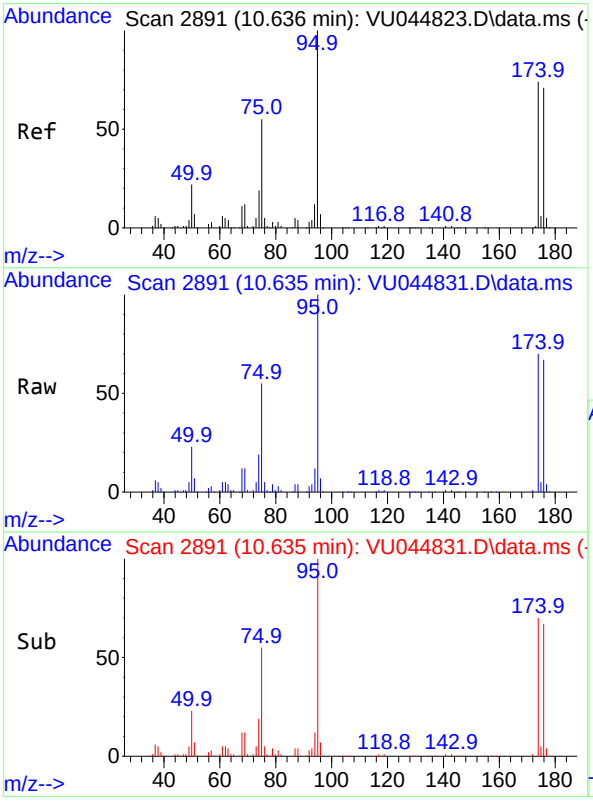


#50
Toluene-d8
Concen: 49.049 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion: 98 Resp: 410127

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.5	78.7

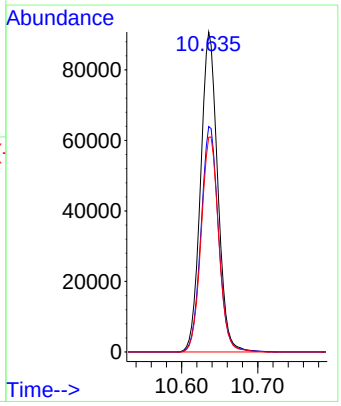




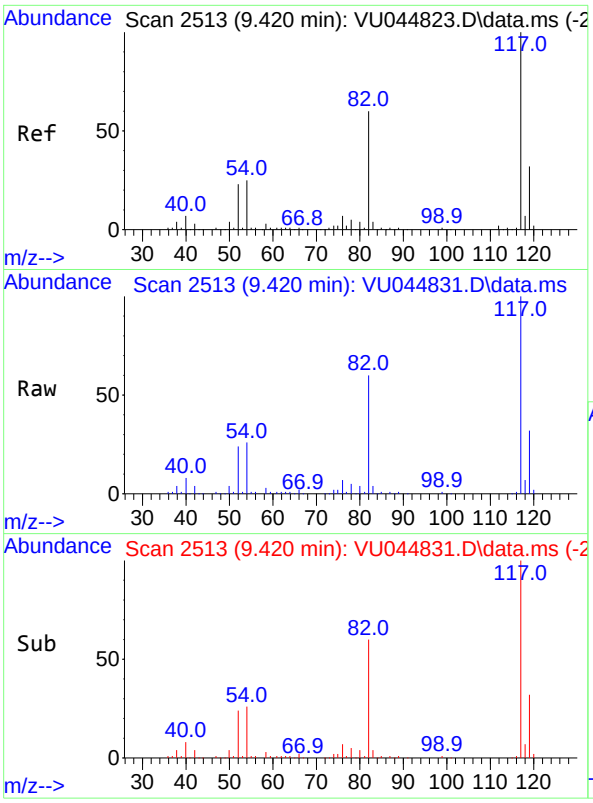
#62
4-Bromofluorobenzene
Concen: 45.592 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion: 95 Resp: 141596

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	146.6
176	68.9	0.0	141.2



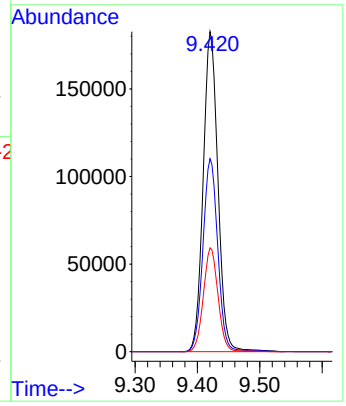
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

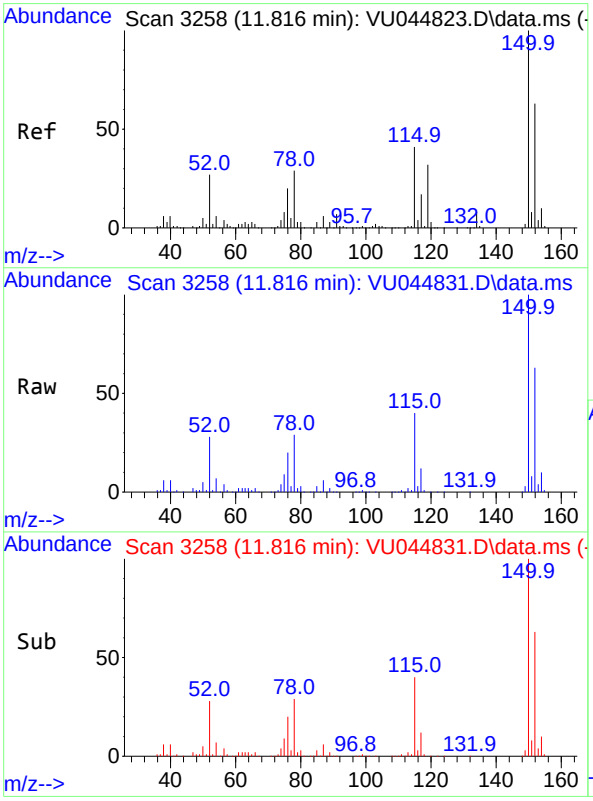


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion:117 Resp: 301046

Ion	Ratio	Lower	Upper
117	100		
82	60.3	47.8	71.8
119	32.4	25.8	38.6

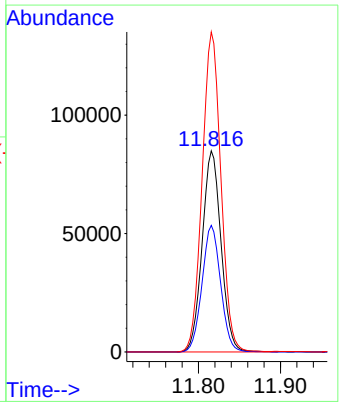




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044831.D
Acq: 25 Sep 2021 13:05

Tgt Ion:152 Resp: 135765

Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.5	130.7
150	157.9	0.0	350.0



Sample Results: **VU044831.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044831.D
Acq On : 25 Sep 2021 13:05
Operator : SY/MD
Sample : VU0925WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VU0925WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044831.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.642	1012	1027	1046	rBV2	4162	11367	1.03%	0.195%
2	5.295	1214	1230	1243	rBV2	161855	347535	31.43%	5.976%
3	5.378	1243	1256	1275	rVB	282461	576179	52.11%	9.908%
4	5.706	1342	1358	1381	rBV	204419	421289	38.10%	7.244%
5	6.253	1510	1528	1554	rBV	423733	797700	72.15%	13.717%
6	7.902	2026	2041	2066	rBV	644279	1105679	100.00%	19.013%
7	9.420	2500	2513	2549	rVB	586867	965600	87.33%	16.604%
8	10.635	2878	2891	2918	rVB	439760	690864	62.48%	11.880%
9	11.816	3245	3258	3281	rBV	561892	899085	81.32%	15.461%

Sum of corrected areas: 5815298

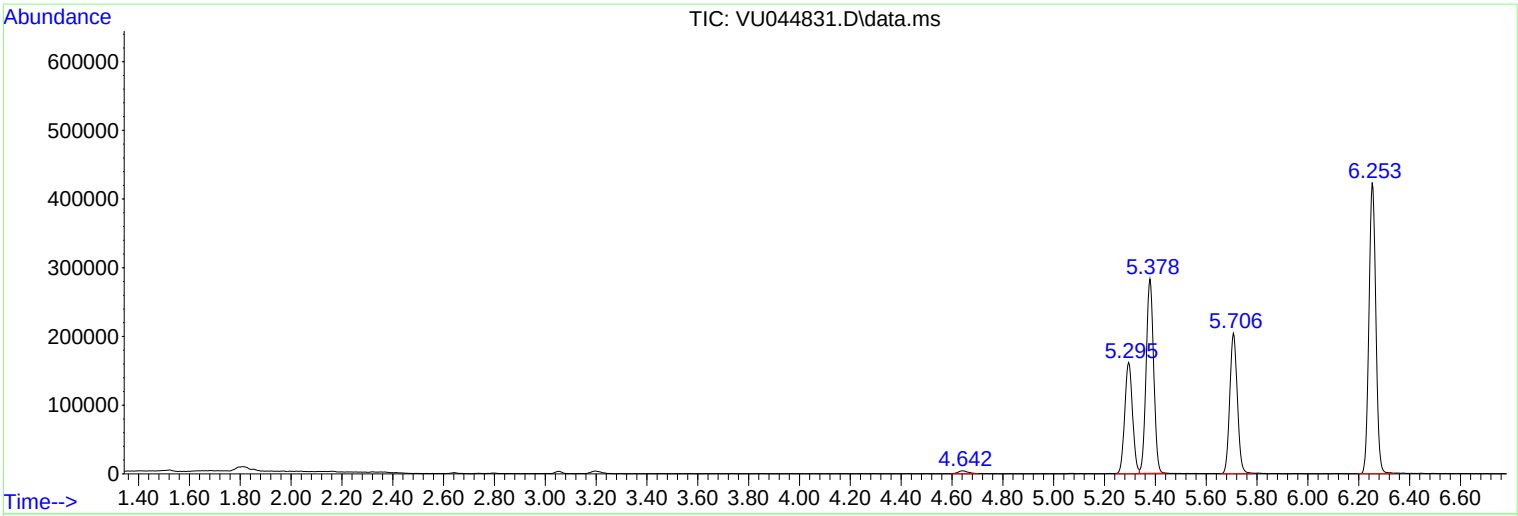
Sample Results: **VU044831.D**

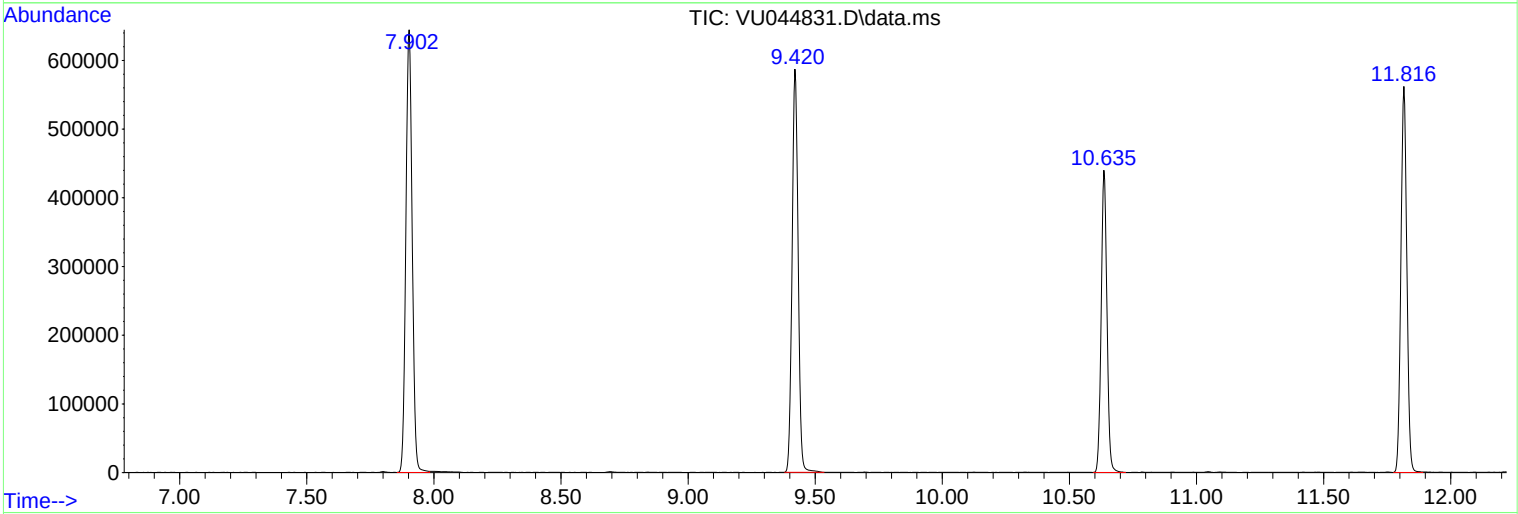
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044831.D
Acq On : 25 Sep 2021 13:05
Operator : SY/MD
Sample : VU0925WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

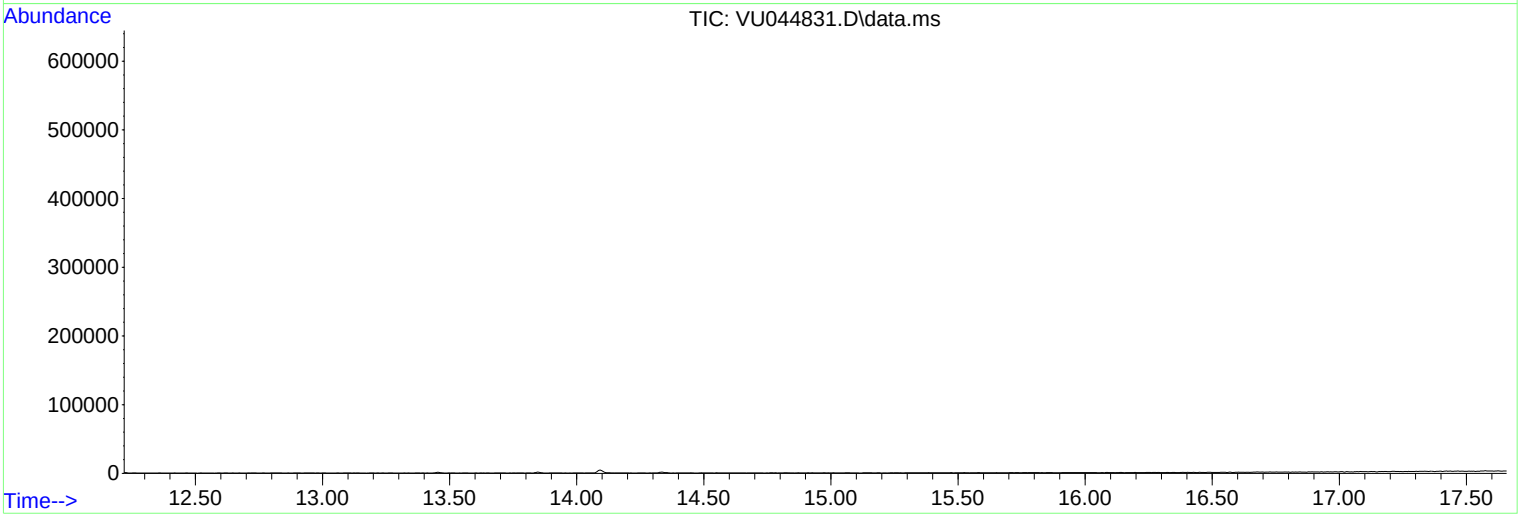
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044831.D
Acq On : 25 Sep 2021 13:05
Operator : SY/MD
Sample : VU0925WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044831.D
Acq On : 25 Sep 2021 13:05
Operator : SY/MD
Sample : VU0925WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBL02	SDG No.:	M3859
Lab Sample ID:	VU0925WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044858.D	1		09/26/21 00:22	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBL02	SDG No.:	M3859
Lab Sample ID:	VU0925WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044858.D	1		09/26/21 00:22	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		78 - 117	97%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	49.8		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		83 - 123	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	5.379			
540-36-3	1,4-Difluorobenzene	326000	6.253			
3114-55-4	Chlorobenzene-d5	306000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	134000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBL02	SDG No.:	M3859
Lab Sample ID:	VU0925WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044858.D	1		09/26/21 00:22	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044858.D
Acq On : 26 Sep 2021 00:22
Operator : SY/MD
Sample : VU0925WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VU0925WBL02

Quant Time: Sep 27 02:52:57 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	184672	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	326106	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	306497	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	133823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	156179	48.457	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.920%		
35) Dibromofluoromethane	5.295	113	105169	47.010	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.020%		
50) Toluene-d8	7.903	98	420785	49.802	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.600%		
62) 4-Bromofluorobenzene	10.636	95	142640	45.453	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.900%		

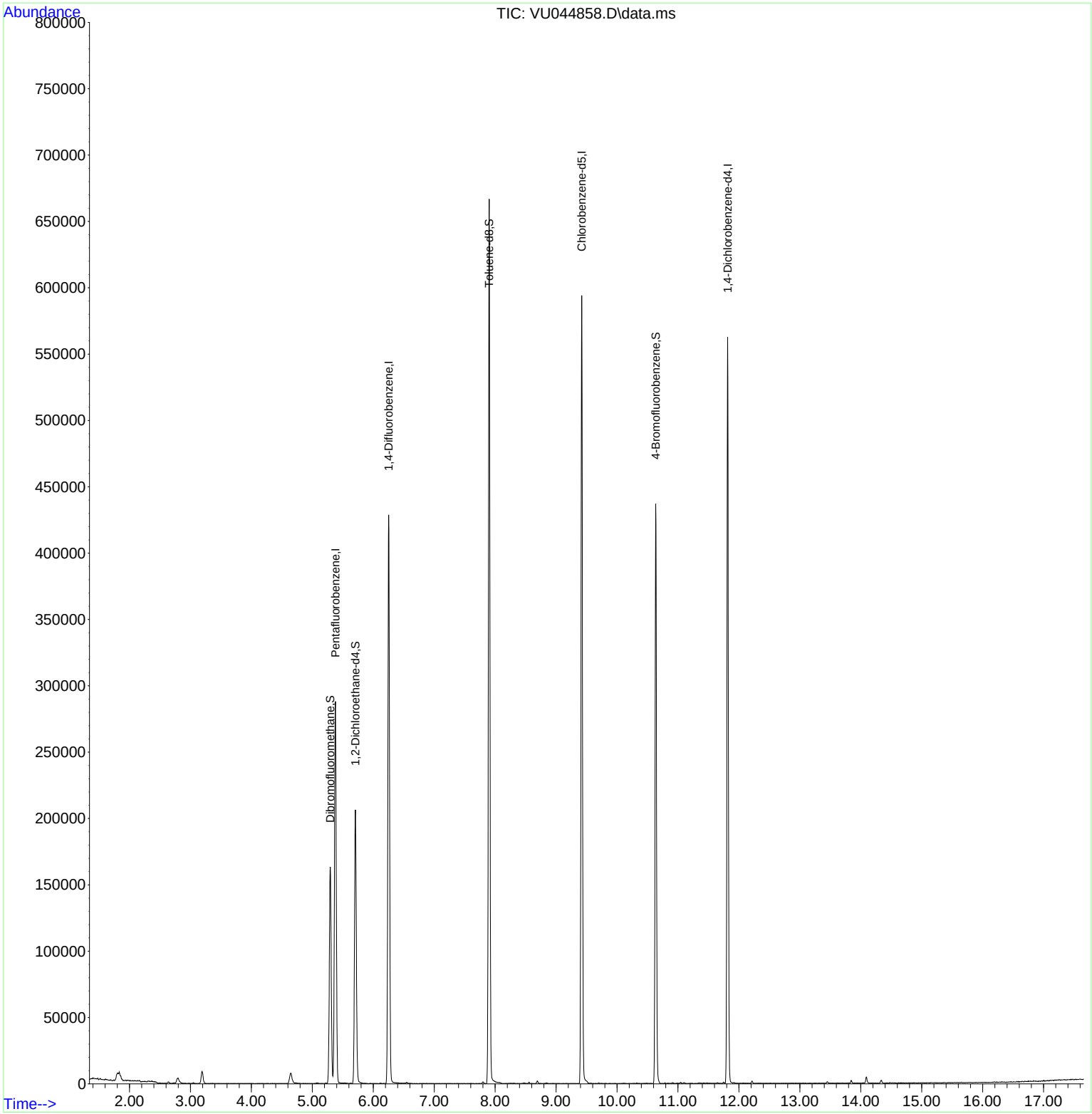
Target Compounds Qvalue

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

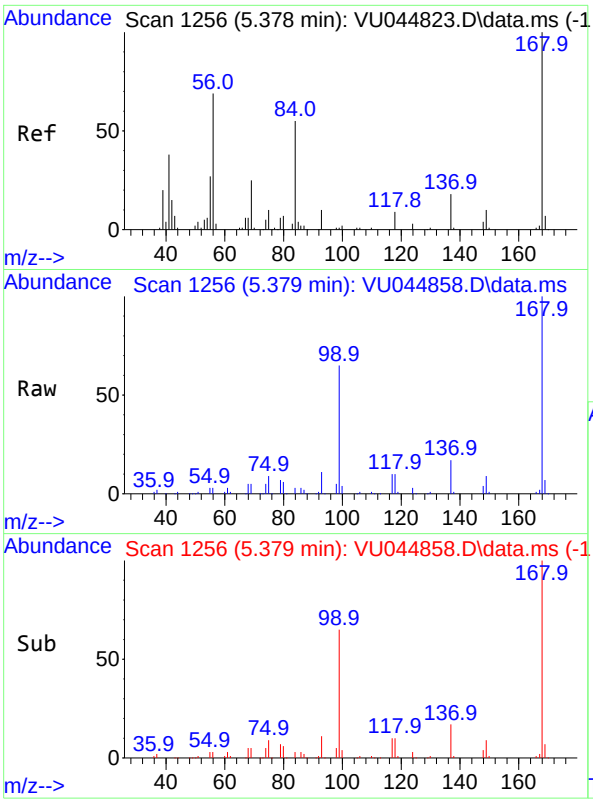
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044858.D
Acq On : 26 Sep 2021 00:22
Operator : SY/MD
Sample : VU0925WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

Quant Time: Sep 27 02:52:57 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



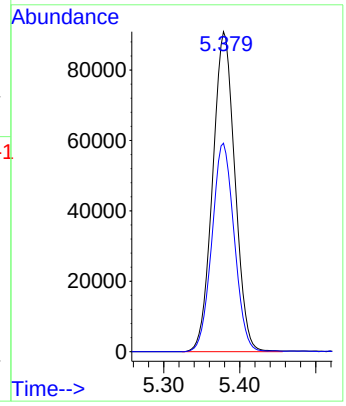
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

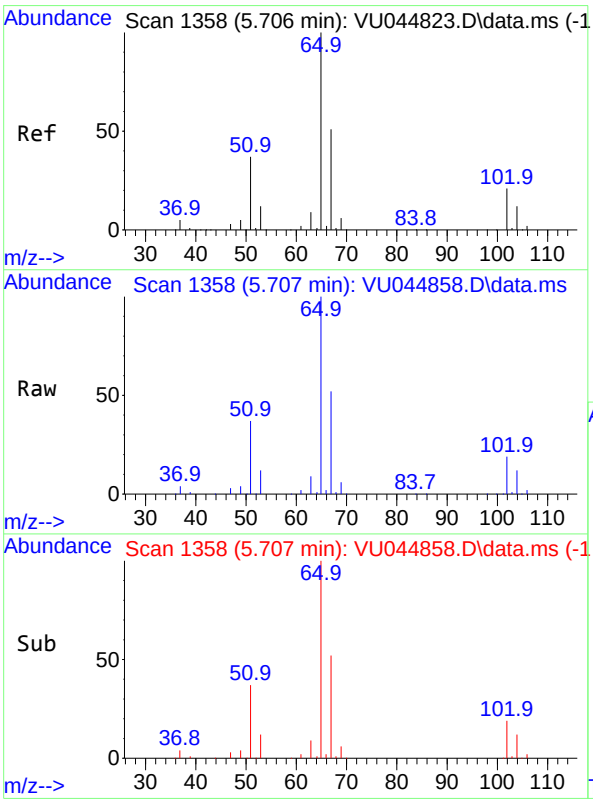


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion:168 Resp: 184672

Ion	Ratio	Lower	Upper
168	100		
99	65.1	51.4	77.0

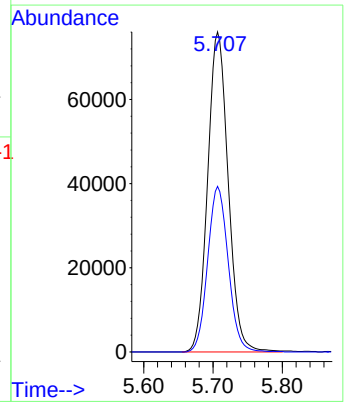




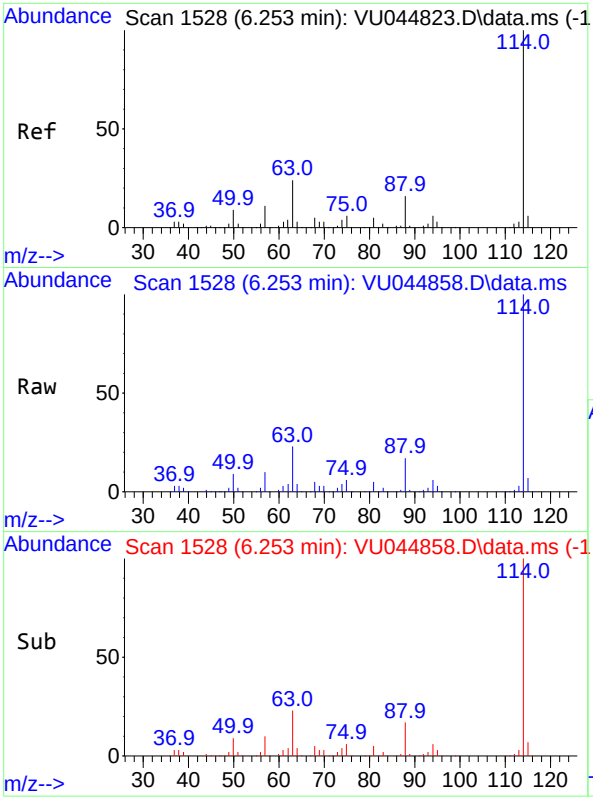
#33
1,2-Dichloroethane-d4
Concen: 48.457 ug/l
RT: 5.707 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion: 65 Resp: 156179

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.8



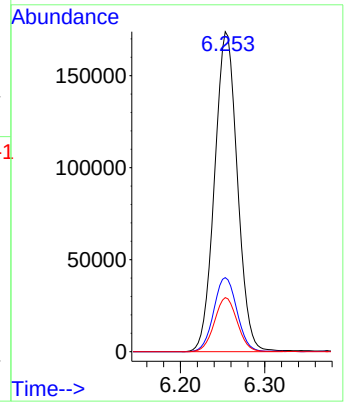
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

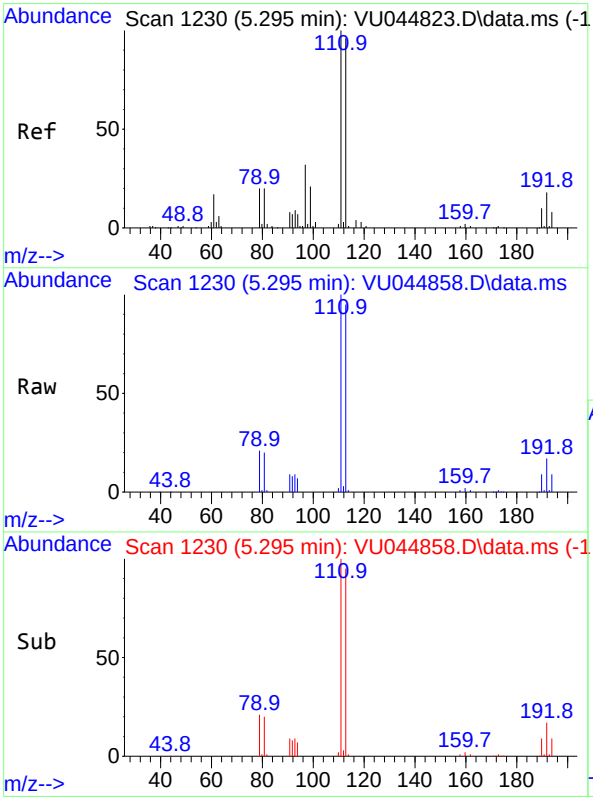


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion:114 Resp: 326106

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	47.8
88	16.9	0.0	32.8

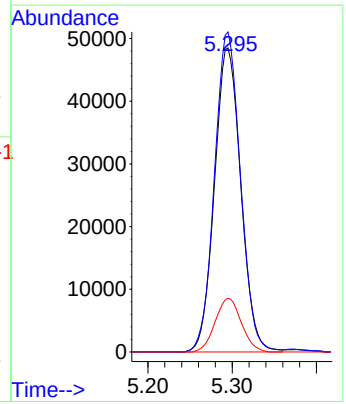




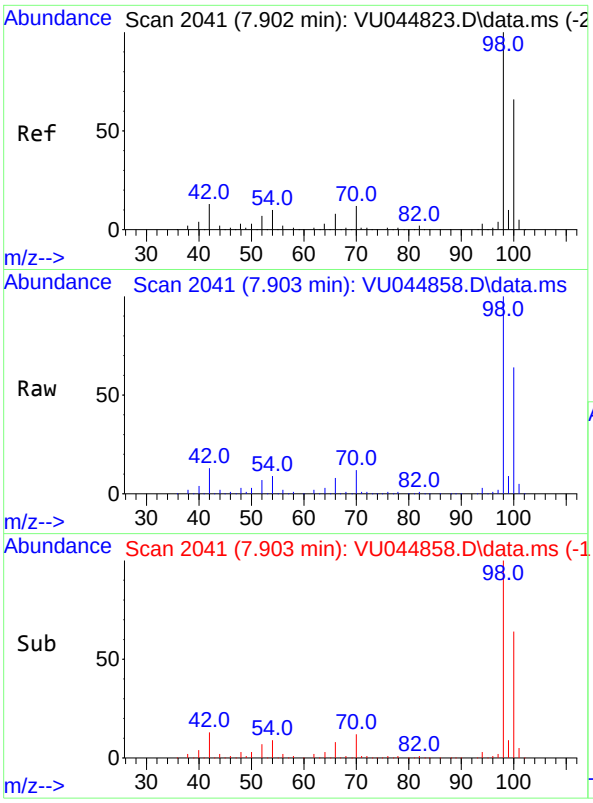
#35
Dibromofluoromethane
Concen: 47.010 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion:113 Resp: 105169

Ion	Ratio	Lower	Upper
113	100		
111	104.0	84.1	126.1
192	17.5	14.8	22.2



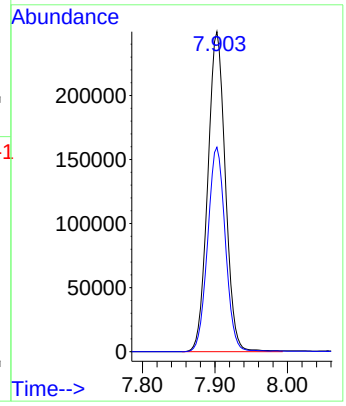
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

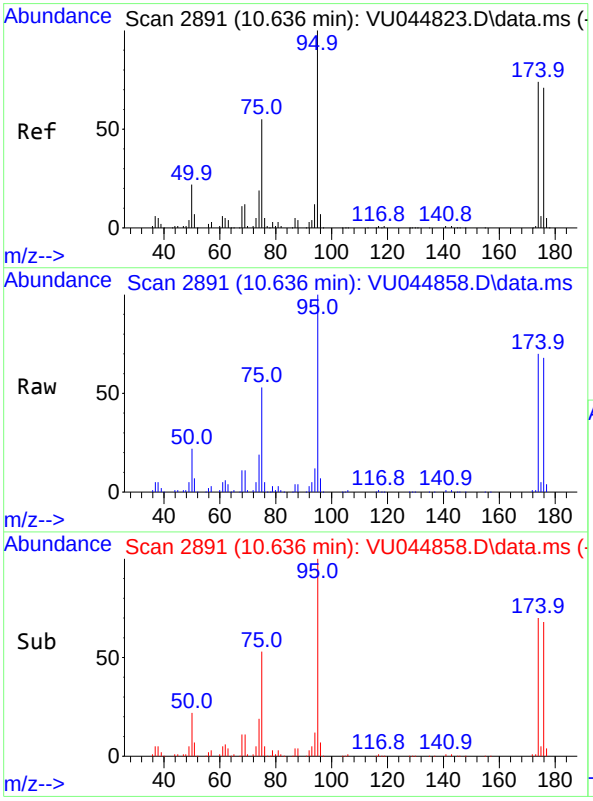


#50
Toluene-d8
Concen: 49.802 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion: 98 Resp: 420785

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.5	78.7

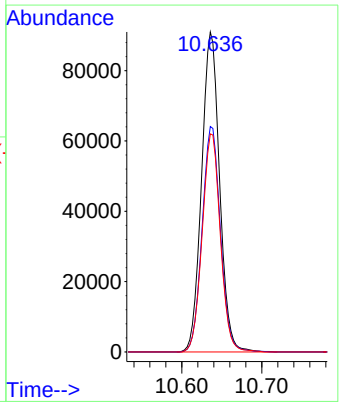




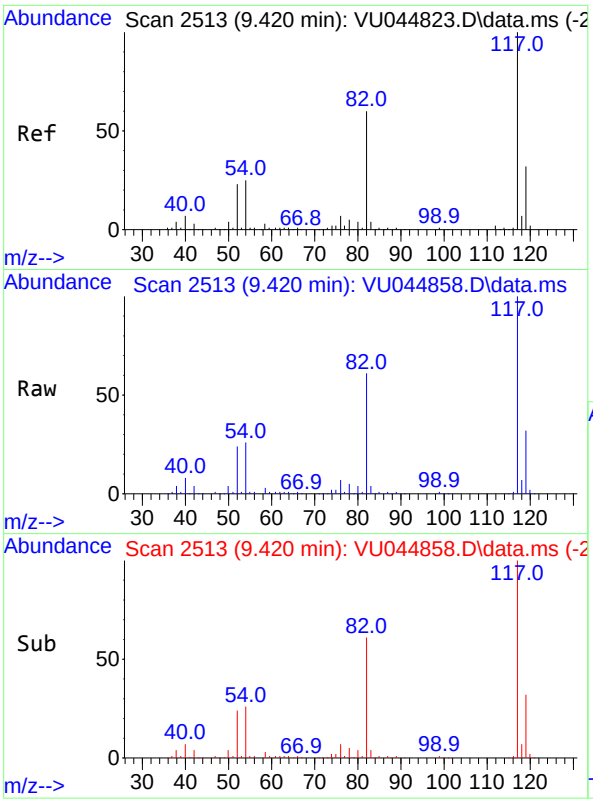
#62
4-Bromofluorobenzene
Concen: 45.453 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion: 95 Resp: 142640

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	146.6
176	68.7	0.0	141.2



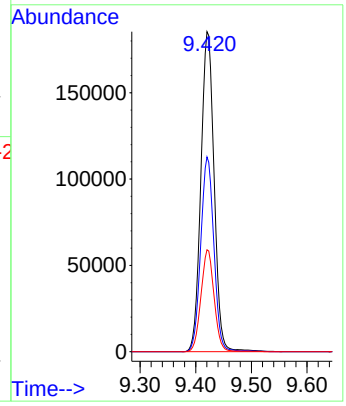
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

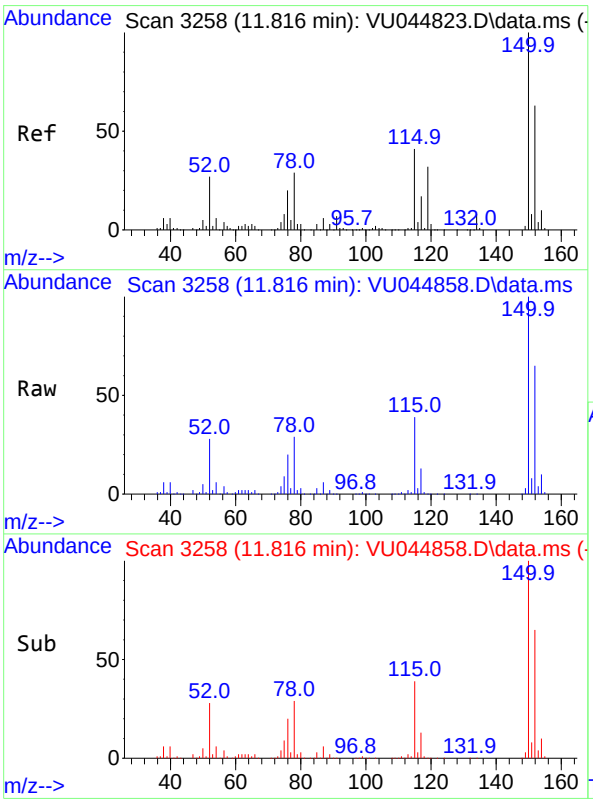


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion:117 Resp: 306497

Ion	Ratio	Lower	Upper
117	100		
82	60.8	47.8	71.8
119	31.8	25.8	38.6

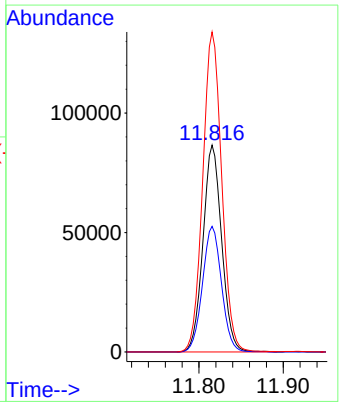




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044858.D
Acq: 26 Sep 2021 00:22

Tgt Ion:152 Resp: 133823

Ion	Ratio	Lower	Upper
152	100		
115	61.7	43.5	130.7
150	157.0	0.0	350.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044858.D
Acq On : 26 Sep 2021 00:22
Operator : SY/MD
Sample : VU0925WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VU0925WBL02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044858.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.797	438	453	472	rBV3	3956	11328	1.00%	0.192%
2	3.192	562	576	593	rBV	9276	20436	1.81%	0.347%
3	4.645	1012	1028	1049	rBV2	7815	22576	2.00%	0.383%
4	5.295	1213	1230	1243	rBV	163252	348073	30.83%	5.904%
5	5.379	1243	1256	1274	rVB	287453	585806	51.88%	9.937%
6	5.707	1343	1358	1377	rBV	206318	423363	37.50%	7.181%
7	6.253	1513	1528	1550	rBV	428589	806214	71.40%	13.676%
8	7.903	2026	2041	2069	rBV	666709	1129101	100.00%	19.153%
9	9.420	2500	2513	2546	rBV	593827	975007	86.35%	16.539%
10	10.636	2876	2891	2915	rBV	436881	689274	61.05%	11.692%
11	11.816	3245	3258	3284	rBV	562279	884012	78.29%	14.995%

Sum of corrected areas: 5895190

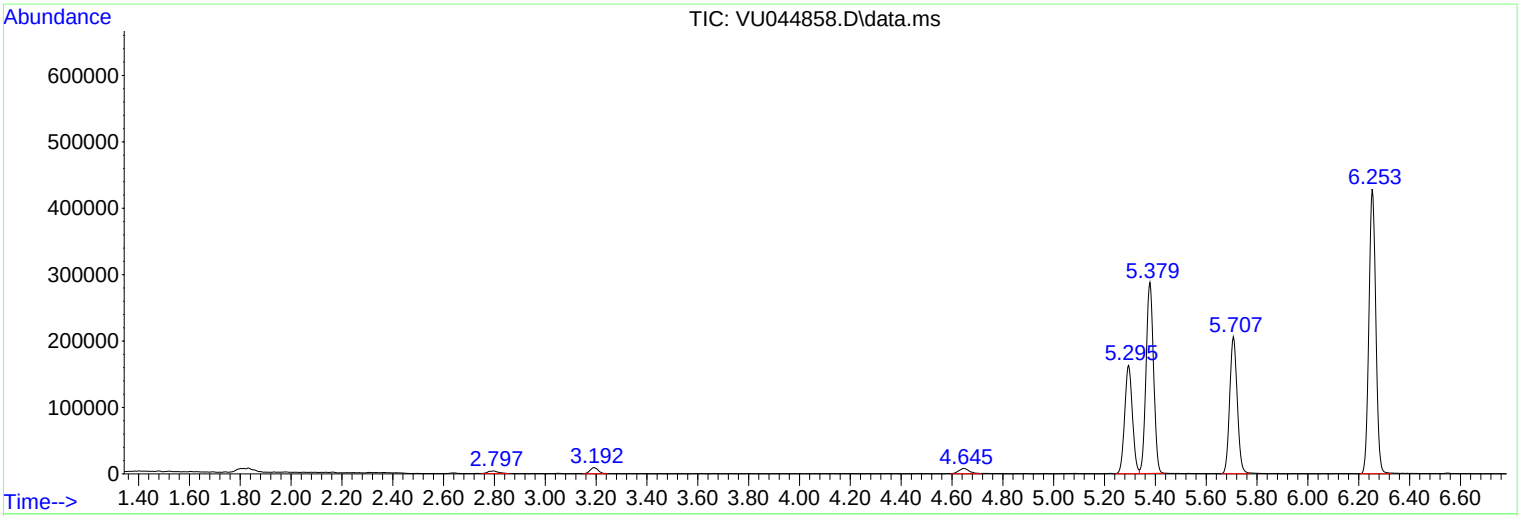
Sample Results: **VU044858.D**

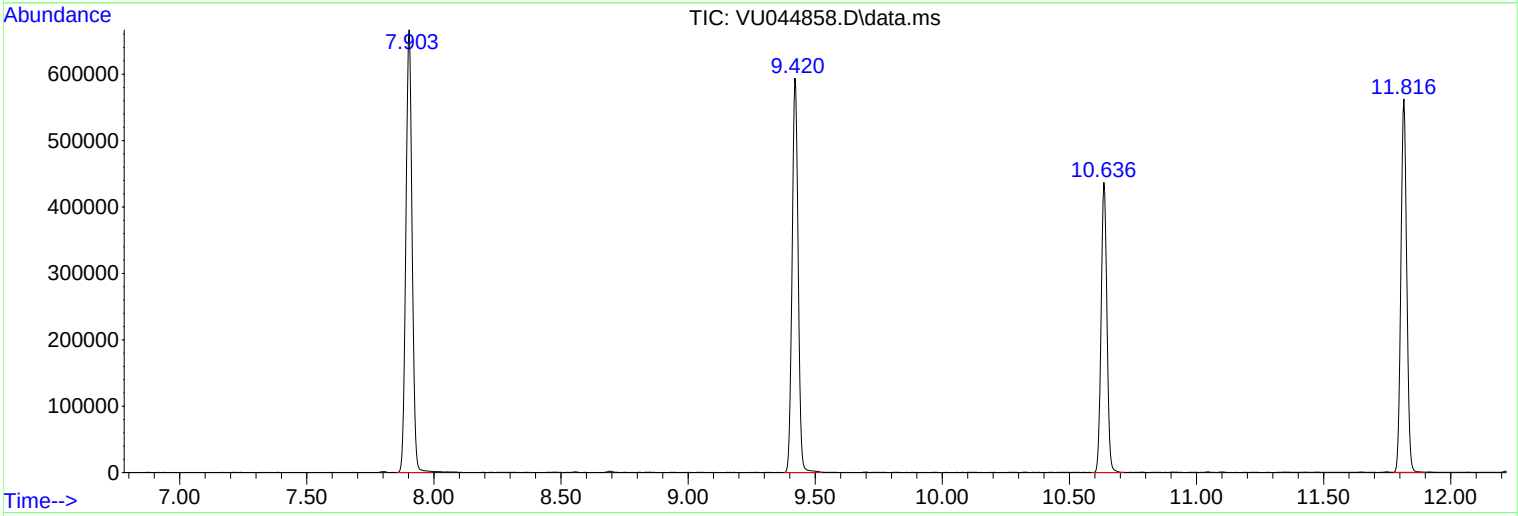
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044858.D
Acq On : 26 Sep 2021 00:22
Operator : SY/MD
Sample : VU0925WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

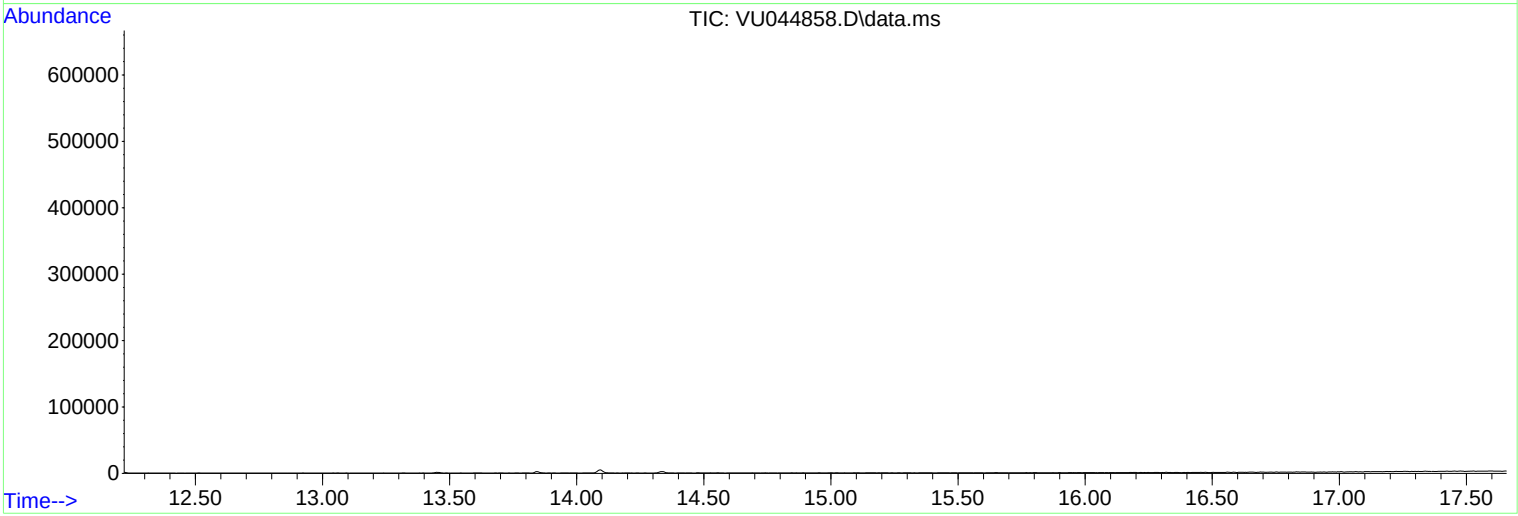
Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044858.D
Acq On : 26 Sep 2021 00:22
Operator : SY/MD
Sample : VU0925WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044858.D
Acq On : 26 Sep 2021 00:22
Operator : SY/MD
Sample : VU0925WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBL01	SDG No.:	M3859
Lab Sample ID:	VU0927WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044887.D	1		09/27/21 13:48	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBL01	SDG No.:	M3859
Lab Sample ID:	VU0927WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044887.D	1		09/27/21 13:48	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		78 - 117	91%	SPK: 50
1868-53-7	Dibromofluoromethane	44.9		75 - 124	90%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		83 - 123	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	5.378			
540-36-3	1,4-Difluorobenzene	351000	6.253			
3114-55-4	Chlorobenzene-d5	324000	9.423			
3855-82-1	1,4-Dichlorobenzene-d4	151000	11.819			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBL01	SDG No.:	M3859
Lab Sample ID:	VU0927WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044887.D	1		09/27/21 13:48	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044887.D
Acq On : 27 Sep 2021 13:48
Operator : SY/MD
Sample : VU0927WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VU0927WBL01

Quant Time: Sep 27 16:35:41 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	197853	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	351472	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.423	117	323636	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.819	152	151171	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	156679	45.374	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.740%		
35) Dibromofluoromethane	5.295	113	108227	44.886	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.780%		
50) Toluene-d8	7.902	98	444331	48.793	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.580%		
62) 4-Bromofluorobenzene	10.639	95	157941	46.696	ug/l	0.00
Spiked Amount 50.000			Recovery =	93.400%		

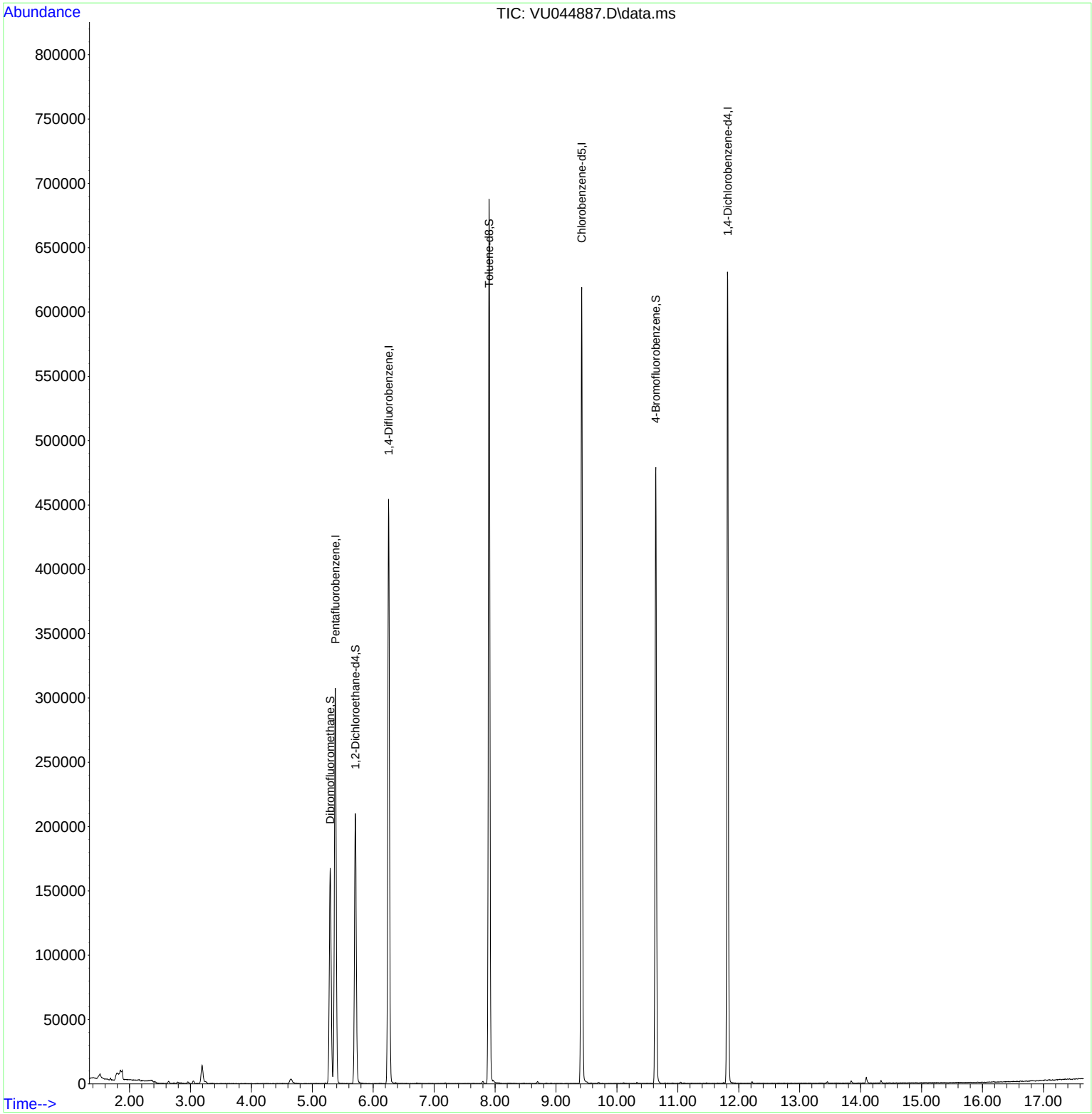
Target Compounds Qvalue

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

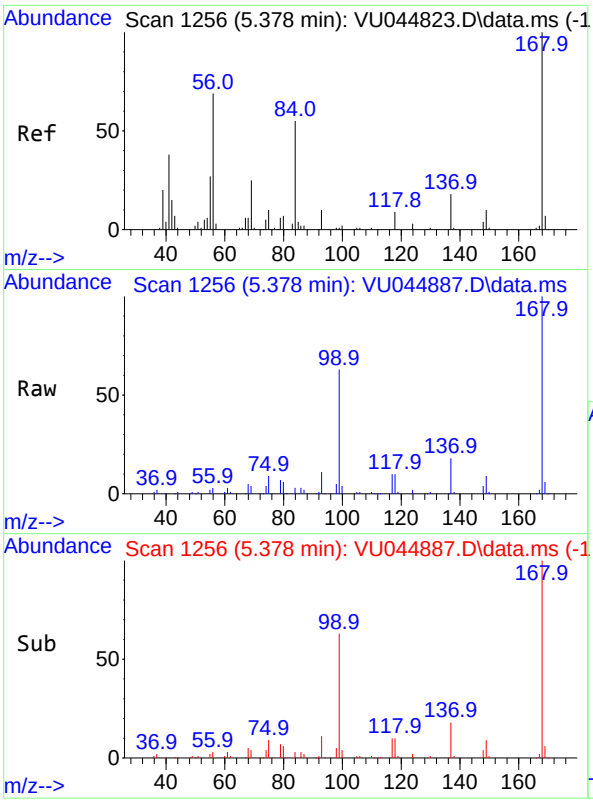
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044887.D
Acq On : 27 Sep 2021 13:48
Operator : SY/MD
Sample : VU0927WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

Quant Time: Sep 27 16:35:41 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



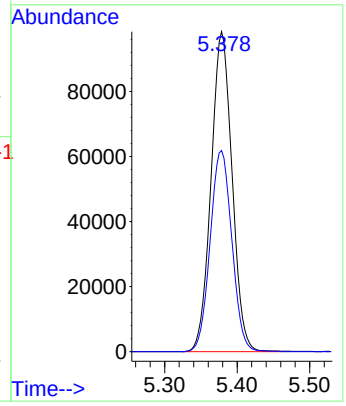
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

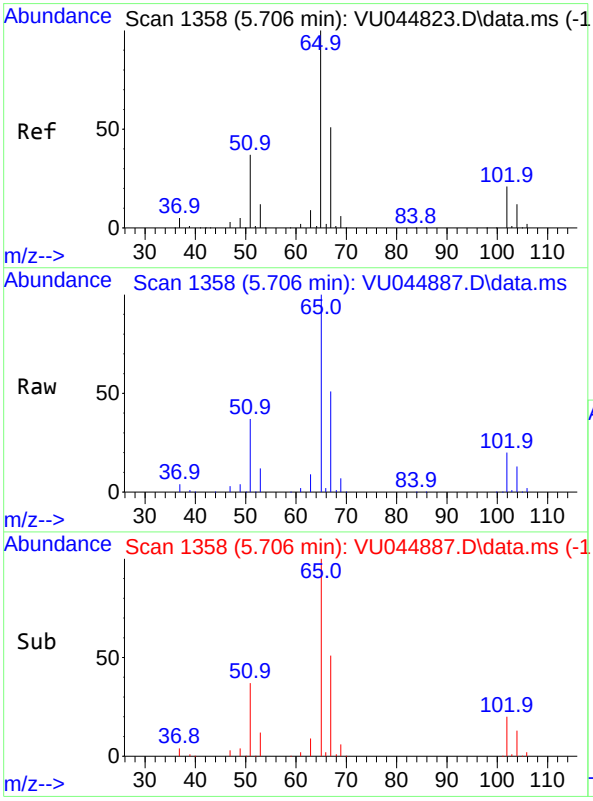


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion:168 Resp: 197853

Ion	Ratio	Lower	Upper
168	100		
99	62.9	51.4	77.0

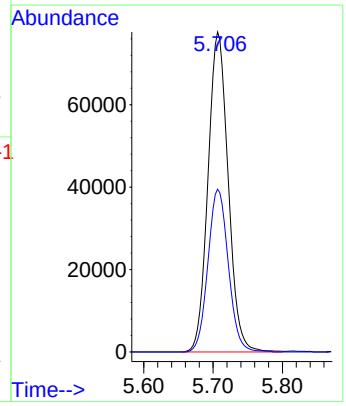




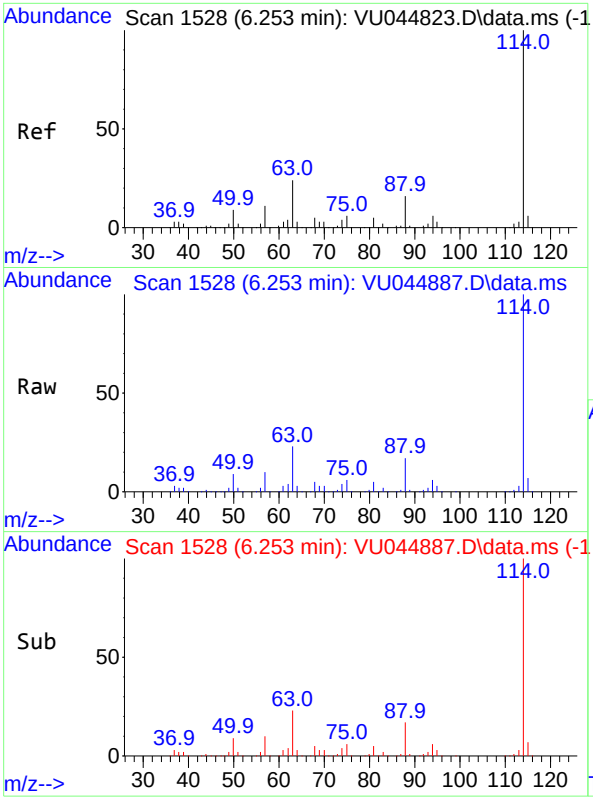
#33
1,2-Dichloroethane-d4
Concen: 45.374 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion: 65 Resp: 156679

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	104.8



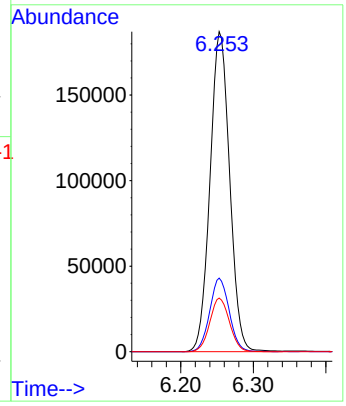
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

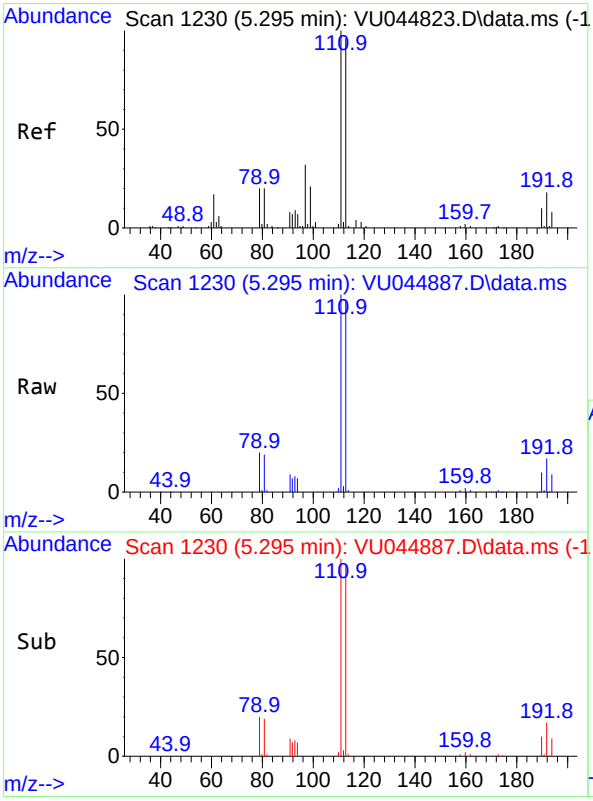


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion:114 Resp: 351472

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	47.8
88	16.7	0.0	32.8

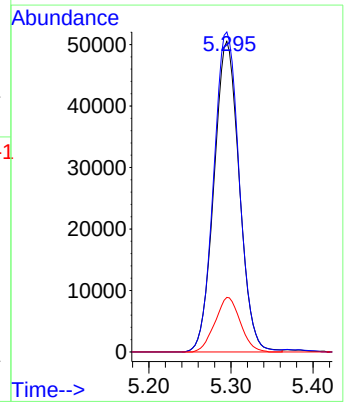




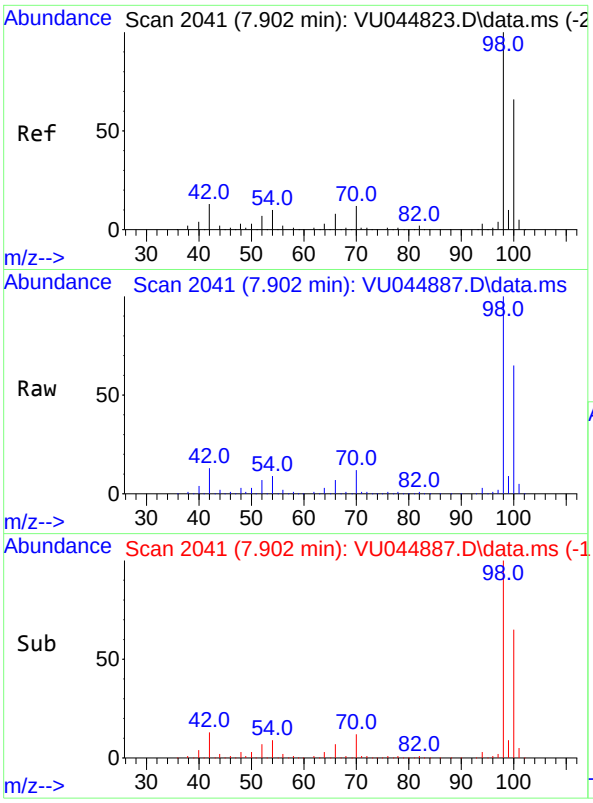
#35
Dibromofluoromethane
Concen: 44.886 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion:113 Resp: 108227

Ion	Ratio	Lower	Upper
113	100		
111	103.8	84.1	126.1
192	17.6	14.8	22.2



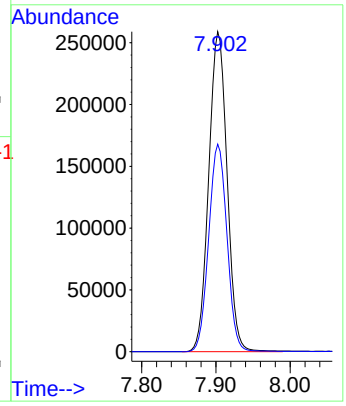
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

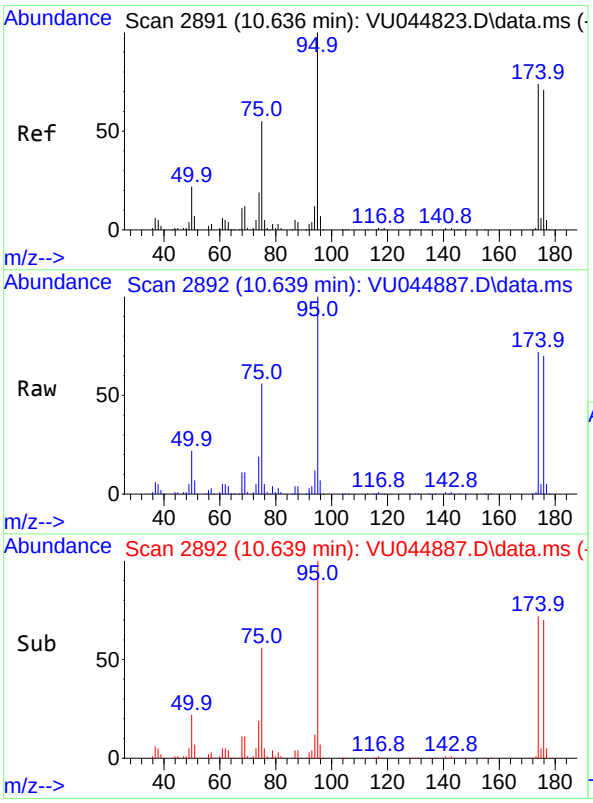


#50
Toluene-d8
Concen: 48.793 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion: 98 Resp: 444331

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.5	78.7

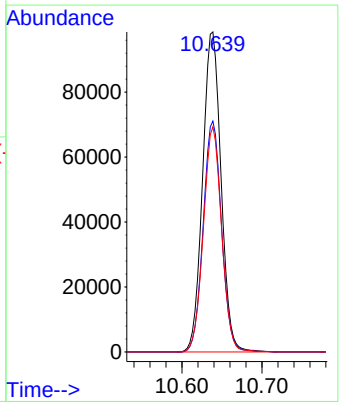




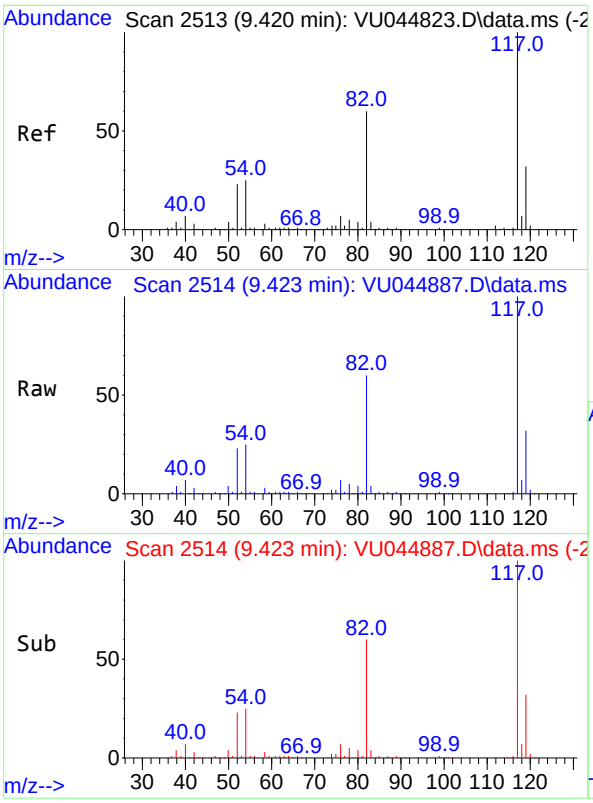
#62
4-Bromofluorobenzene
Concen: 46.696 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.003 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion: 95 Resp: 157941

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	146.6
176	69.6	0.0	141.2



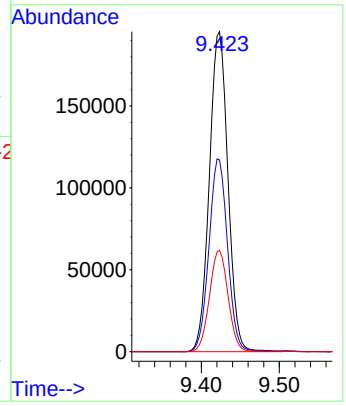
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

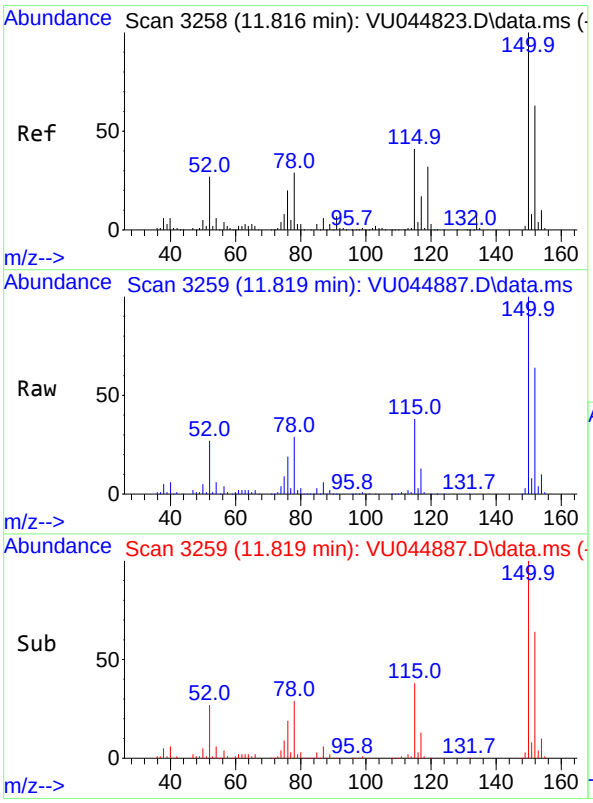


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.423 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion:117 Resp: 323636

Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.8	71.8
119	31.7	25.8	38.6

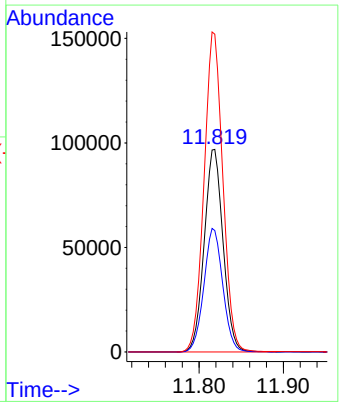




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.819 min Scan# 3259
Delta R.T. 0.003 min
Lab File: VU044887.D
Acq: 27 Sep 2021 13:48

Tgt Ion:152 Resp: 151171

Ion	Ratio	Lower	Upper
152	100		
115	61.1	43.5	130.7
150	157.2	0.0	350.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044887.D
Acq On : 27 Sep 2021 13:48
Operator : SY/MD
Sample : VU0927WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VU0927WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044887.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.192	560	576	590	rBV	14242	34017	2.88%	0.544%
2	5.295	1213	1230	1243	rBV2	167375	357026	30.19%	5.714%
3	5.378	1243	1256	1282	rVB	307220	623357	52.72%	9.977%
4	5.706	1343	1358	1377	rBV	209955	426128	36.04%	6.820%
5	6.253	1511	1528	1553	rBV	454380	852120	72.07%	13.638%
6	7.902	2027	2041	2058	rBV	687500	1182429	100.00%	18.925%
7	9.423	2499	2514	2539	rBV	618847	1027020	86.86%	16.437%
8	10.639	2877	2892	2916	rBV	479000	760587	64.32%	12.173%
9	11.815	3246	3258	3275	rBV	630782	985445	83.34%	15.772%

Sum of corrected areas: 6248129

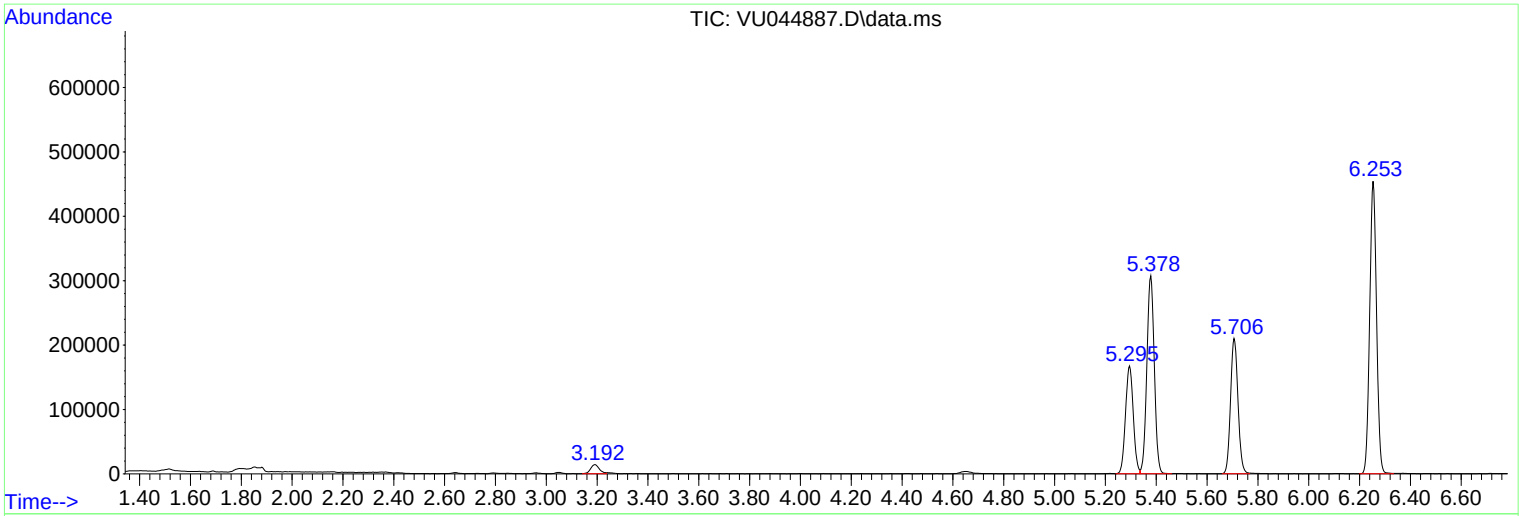
Sample Results: **VU044887.D**

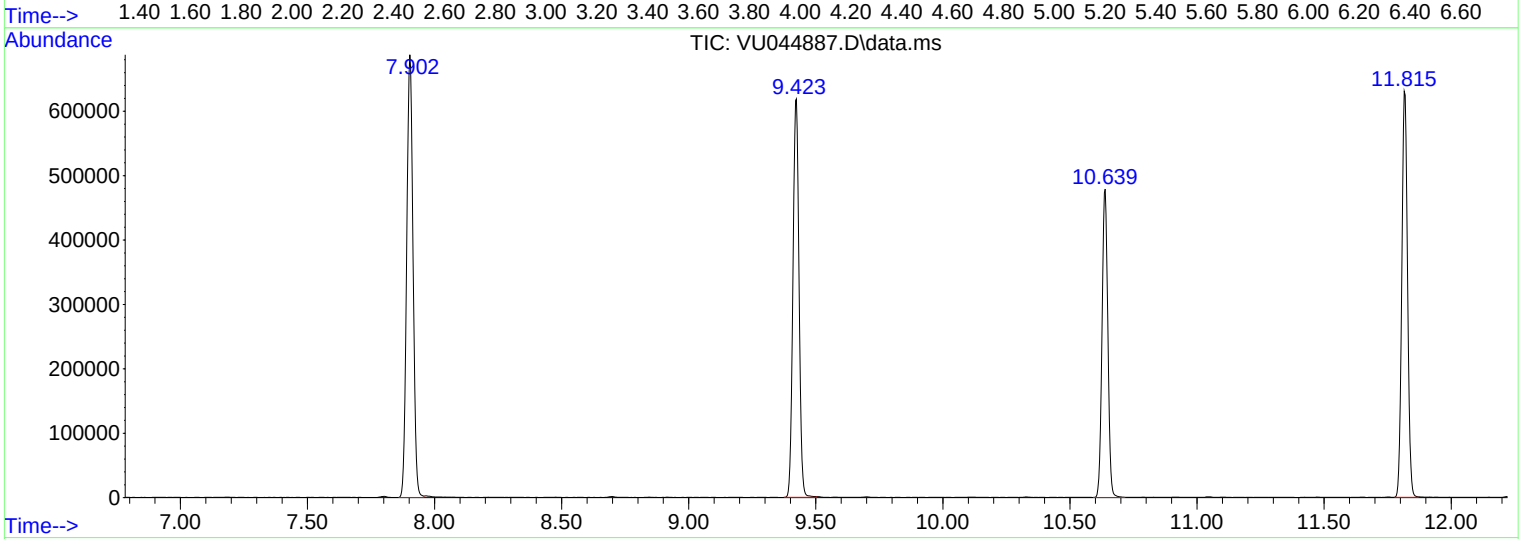
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044887.D
Acq On : 27 Sep 2021 13:48
Operator : SY/MD
Sample : VU0927WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

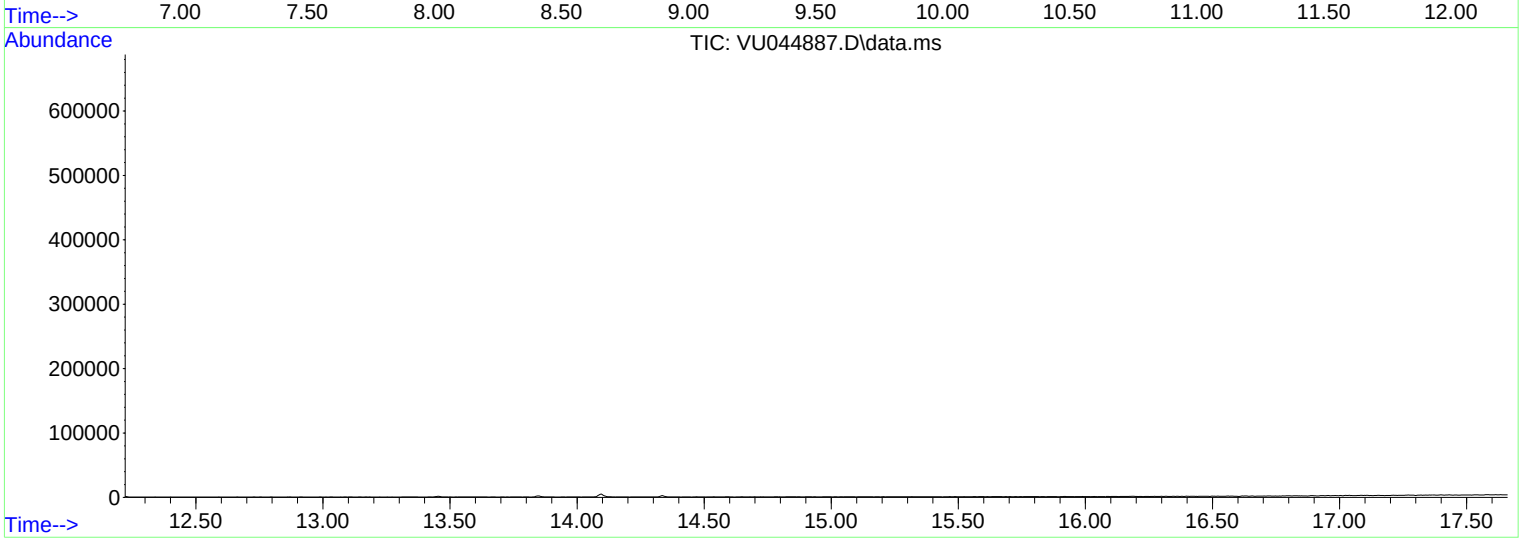
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044887.D
Acq On : 27 Sep 2021 13:48
Operator : SY/MD
Sample : VU0927WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044887.D
Acq On : 27 Sep 2021 13:48
Operator : SY/MD
Sample : VU0927WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBL02	SDG No.:	M3859
Lab Sample ID:	VU0927WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044906.D	1		09/27/21 23:10	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBL02	SDG No.:	M3859
Lab Sample ID:	VU0927WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044906.D	1		09/27/21 23:10	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.8		78 - 117	90%	SPK: 50
1868-53-7	Dibromofluoromethane	44.7		75 - 124	89%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		83 - 123	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	205000	5.376			
540-36-3	1,4-Difluorobenzene	359000	6.253			
3114-55-4	Chlorobenzene-d5	332000	9.421			
3855-82-1	1,4-Dichlorobenzene-d4	155000	11.816			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBL02	SDG No.:	M3859
Lab Sample ID:	VU0927WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044906.D	1		09/27/21 23:10	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044906.D
Acq On : 27 Sep 2021 23:10
Operator : SY/MD
Sample : VU0927WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VU0927WBL02

Quant Time: Sep 28 06:29:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.376	168	204739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	358680	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.421	117	331743	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	154892	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	160179	44.827	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.660%		
35) Dibromofluoromethane	5.295	113	110062	44.730	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.460%		
50) Toluene-d8	7.900	98	450648	48.493	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.980%		
62) 4-Bromofluorobenzene	10.636	95	164336	47.610	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.220%		

Target Compounds Qvalue

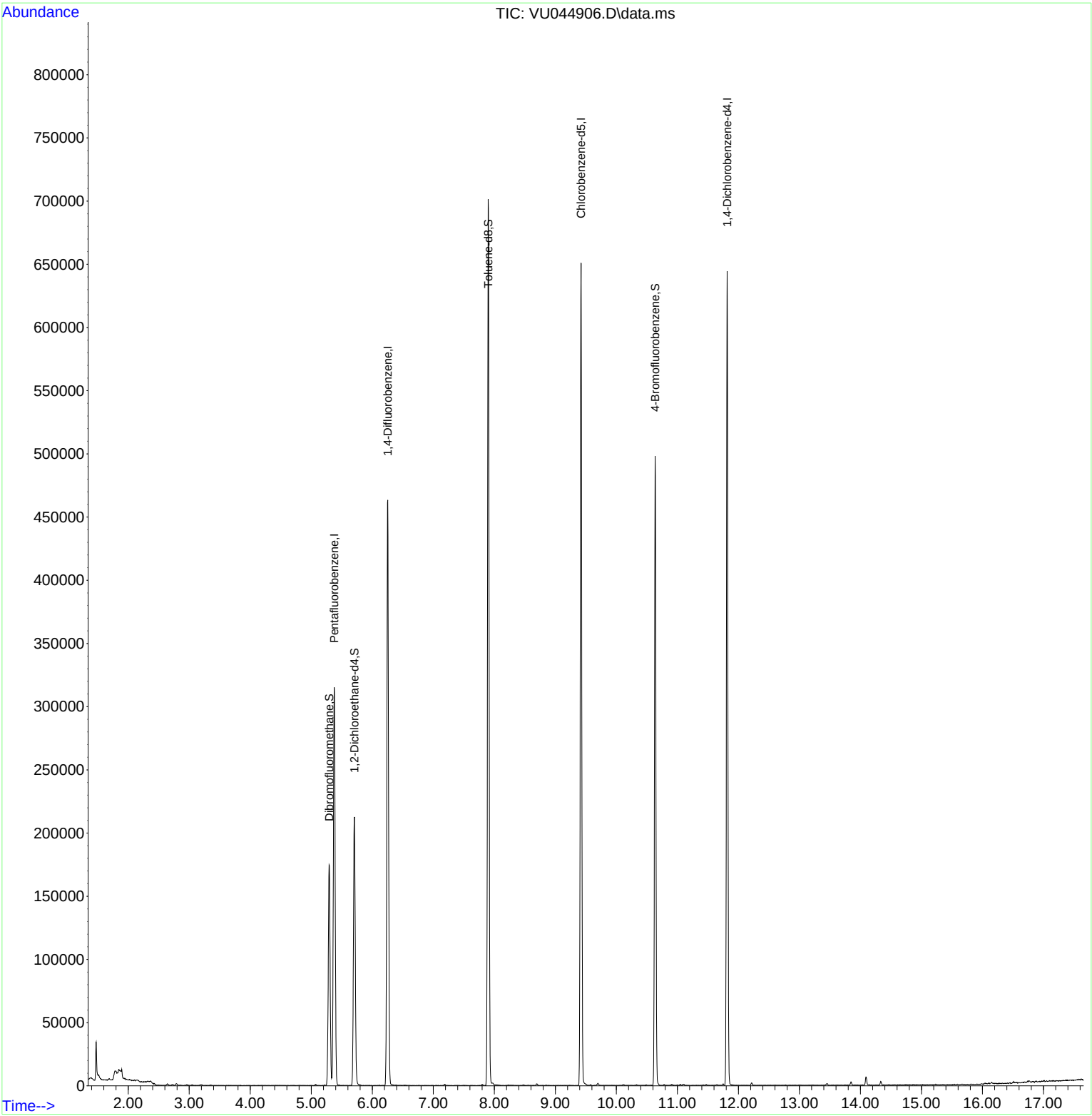
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VU044906.D**

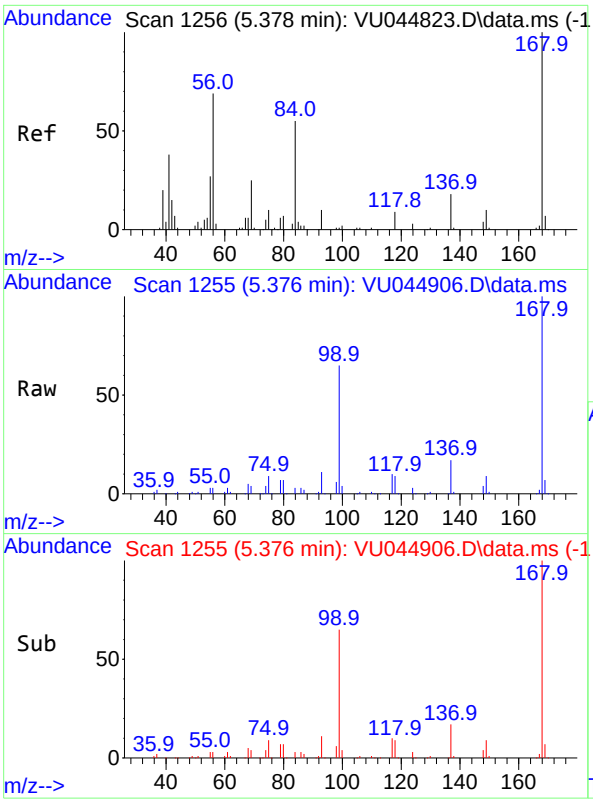
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044906.D
Acq On : 27 Sep 2021 23:10
Operator : SY/MD
Sample : VU0927WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

Quant Time: Sep 28 06:29:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration



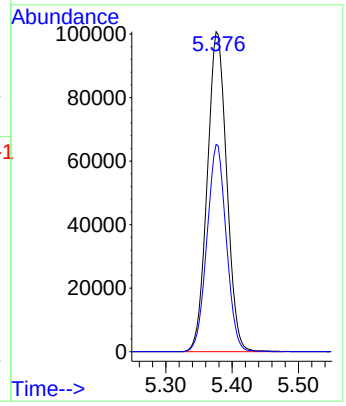
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

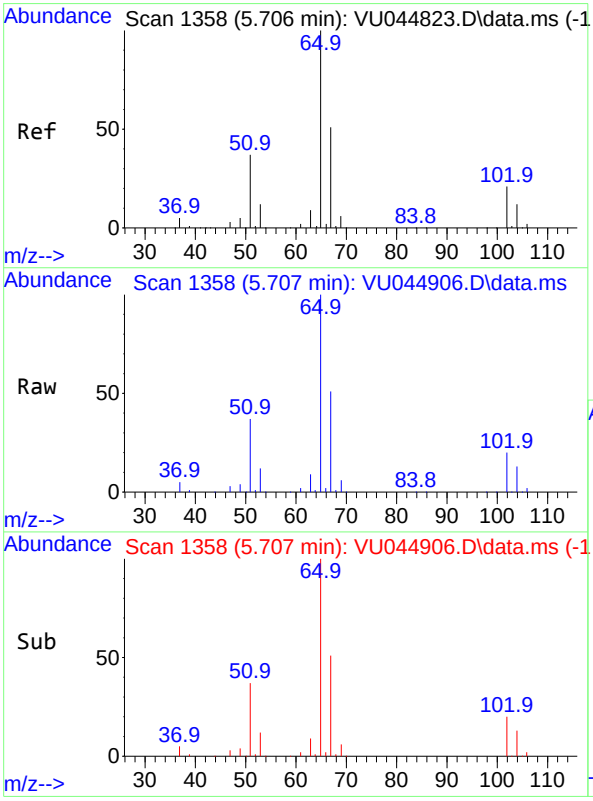


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.376 min Scan# 1255
Delta R.T. -0.002 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion:168 Resp: 204739

Ion	Ratio	Lower	Upper
168	100		
99	64.8	51.4	77.0

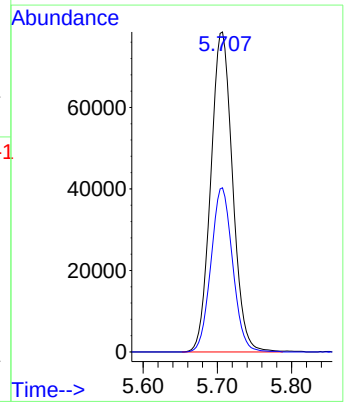




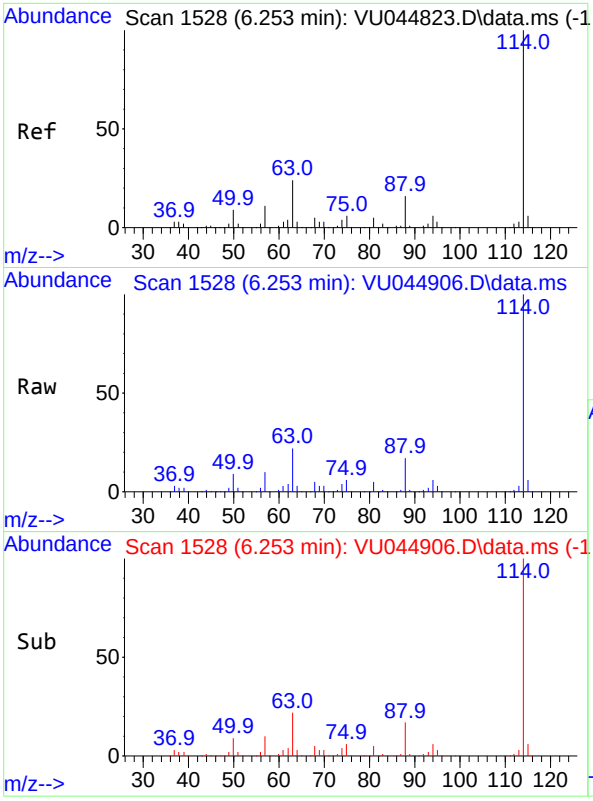
#33
1,2-Dichloroethane-d4
Concen: 44.827 ug/l
RT: 5.707 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion: 65 Resp: 160179

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	104.8



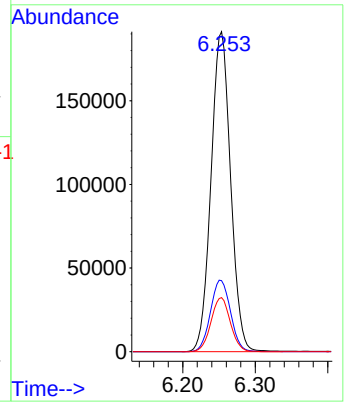
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

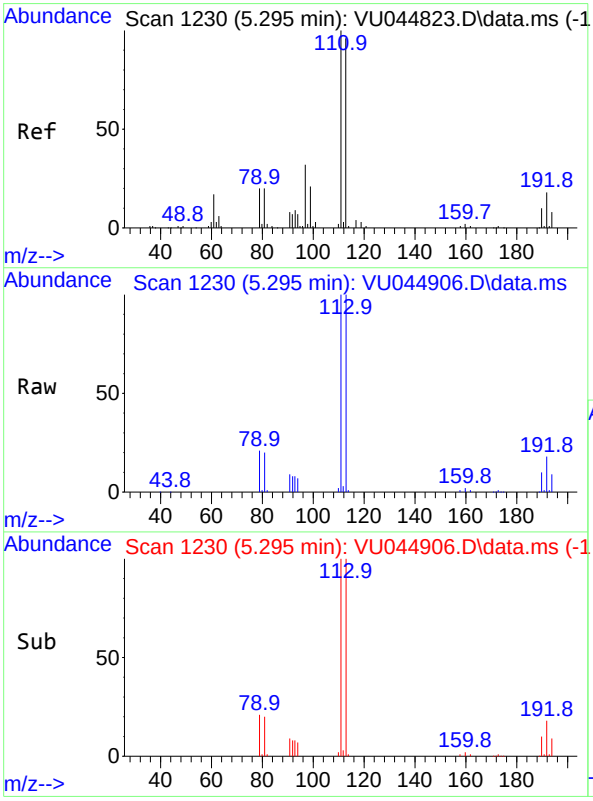


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion:114 Resp: 358680

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	47.8
88	16.9	0.0	32.8

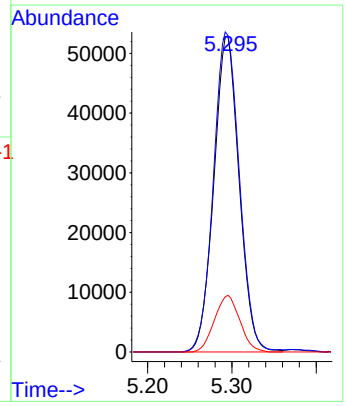




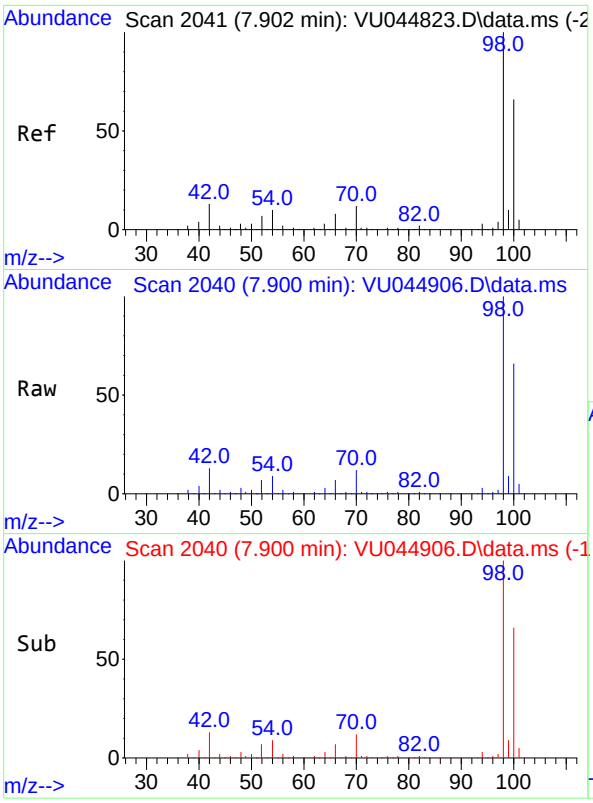
#35
Dibromofluoromethane
Concen: 44.730 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion:113 Resp: 110062

Ion	Ratio	Lower	Upper
113	100		
111	103.7	84.1	126.1
192	18.0	14.8	22.2



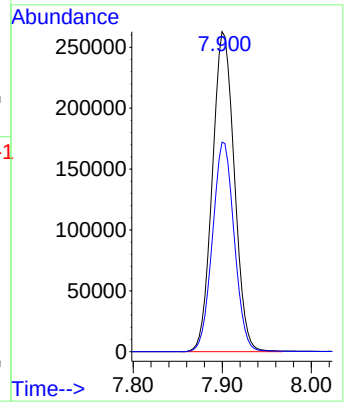
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

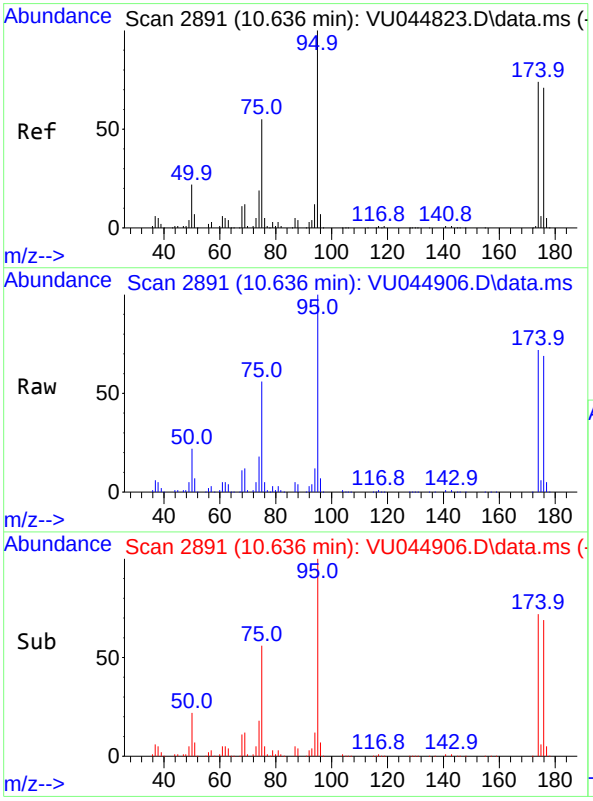


#50
Toluene-d8
Concen: 48.493 ug/l
RT: 7.900 min Scan# 2040
Delta R.T. -0.003 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion: 98 Resp: 450648

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.5	78.7

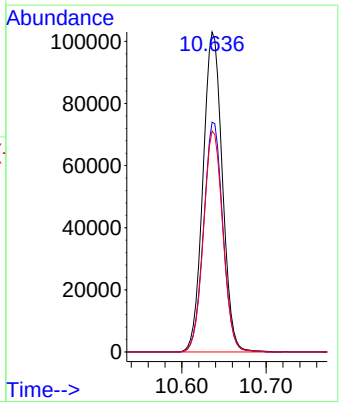




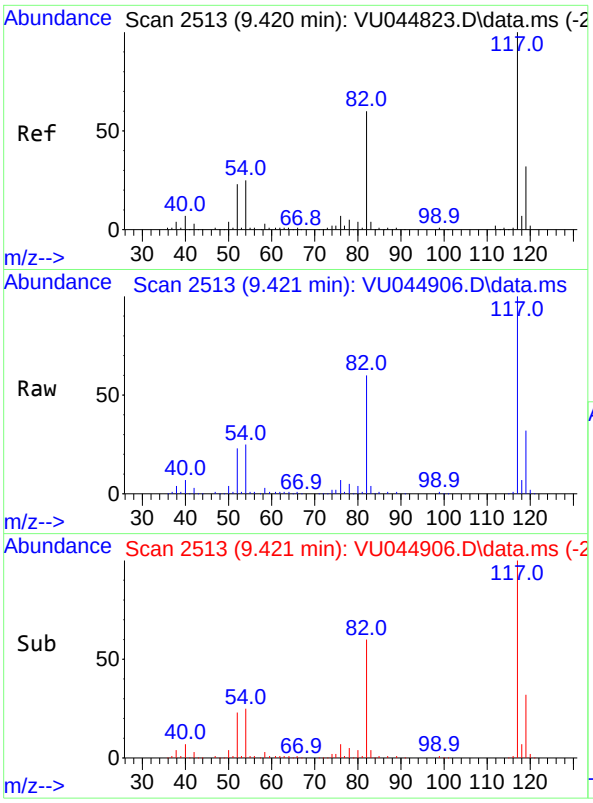
#62
4-Bromofluorobenzene
Concen: 47.610 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion: 95 Resp: 164336

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	146.6
176	69.2	0.0	141.2



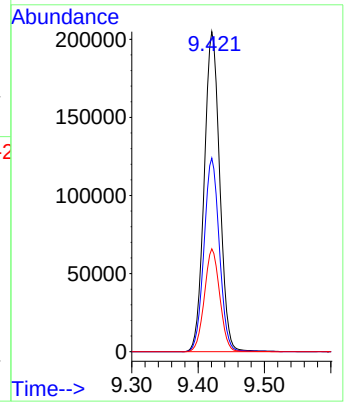
Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

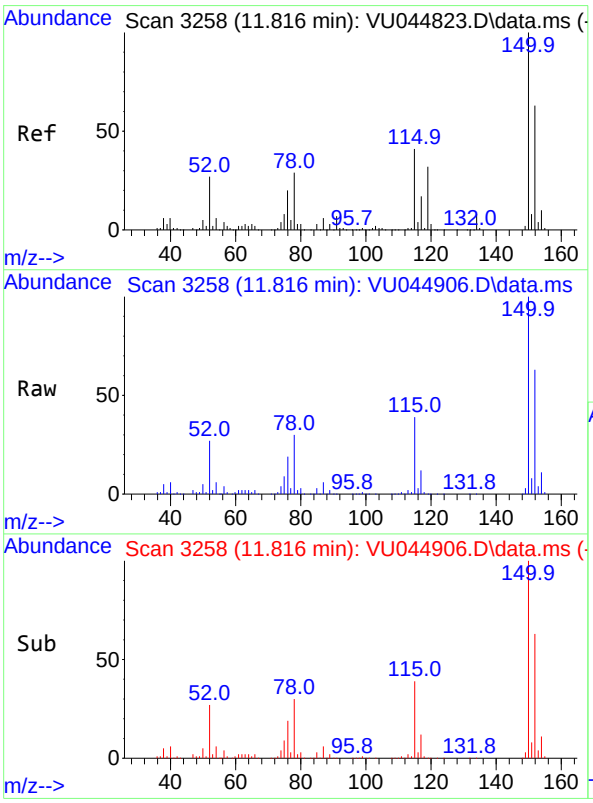


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.421 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion:117 Resp: 331743

Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.8	71.8
119	32.1	25.8	38.6

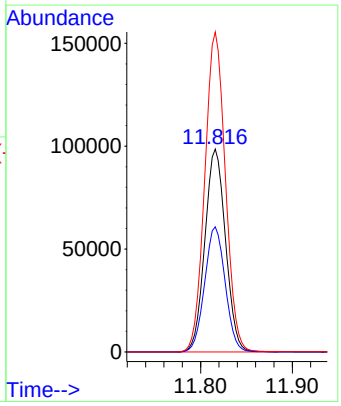




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044906.D
Acq: 27 Sep 2021 23:10

Tgt Ion:152 Resp: 154892

Ion	Ratio	Lower	Upper
152	100		
115	61.3	43.5	130.7
150	156.7	0.0	350.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044906.D
Acq On : 27 Sep 2021 23:10
Operator : SY/MD
Sample : VU0927WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Title : SW846 8260

Signal : TIC: VU044906.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.476	35	42	52	rBV2	30207	37517	3.12%	0.587%
2	5.292	1212	1229	1242	rBV	174441	365222	30.36%	5.713%
3	5.376	1242	1255	1273	rVB	314566	638425	53.07%	9.986%
4	5.707	1342	1358	1380	rBV	212407	432254	35.93%	6.761%
5	6.253	1511	1528	1549	rBV	463359	869575	72.28%	13.602%
6	7.900	2027	2040	2057	rBV	701117	1203074	100.00%	18.818%
7	9.421	2500	2513	2536	rBV	650686	1047487	87.07%	16.384%
8	10.636	2875	2891	2912	rBV	497981	788285	65.52%	12.330%
9	11.816	3243	3258	3279	rBV	644151	1011349	84.06%	15.819%

Sum of corrected areas: 6393188

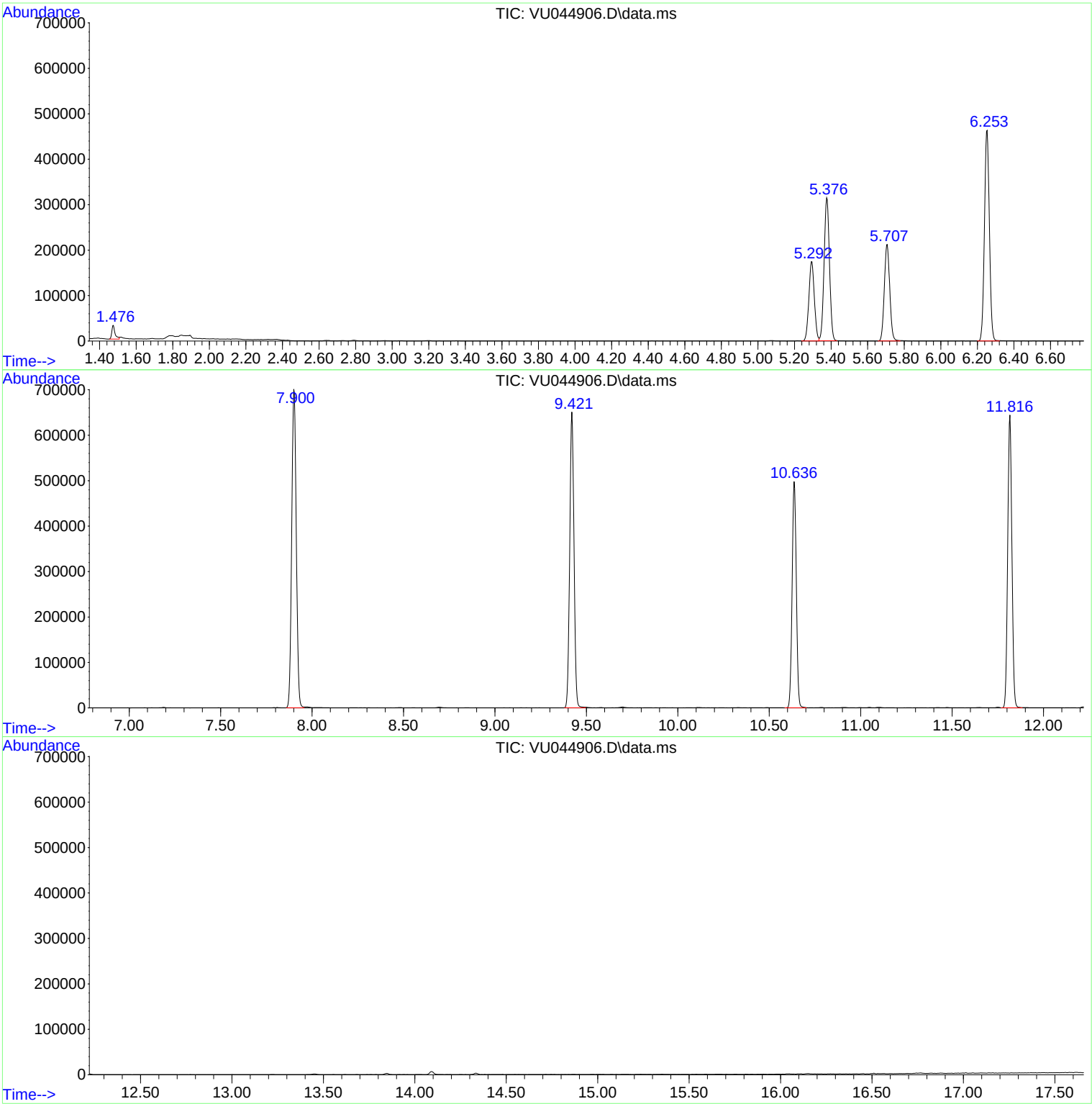
Sample Results: **VU044906.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044906.D
Acq On : 27 Sep 2021 23:10
Operator : SY/MD
Sample : VU0927WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044906.D
Acq On : 27 Sep 2021 23:10
Operator : SY/MD
Sample : VU0927WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044906.D
Acq On : 27 Sep 2021 23:10
Operator : SY/MD
Sample : VU0927WBL02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBS01	SDG No.:	M3859
Lab Sample ID:	VU0925WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044833.D	1		09/25/21 13:50	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.7		0.23	1.00	ug/L
74-87-3	Chloromethane	17.4		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	18.5		0.19	1.00	ug/L
74-83-9	Bromomethane	21.2		0.87	5.00	ug/L
75-00-3	Chloroethane	18.5		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.26	1.00	ug/L
67-64-1	Acetone	100		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	17.4		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.1		0.22	1.00	ug/L
79-20-9	Methyl Acetate	19.3		0.47	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.6		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.7		0.21	1.00	ug/L
110-82-7	Cyclohexane	18.4		1.30	5.00	ug/L
78-93-3	2-Butanone	99.3		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.22	1.00	ug/L
74-97-5	Bromochloromethane	19.7		0.26	1.00	ug/L
67-66-3	Chloroform	19.7		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.4		0.14	1.00	ug/L
71-43-2	Benzene	19.1		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.1		0.25	1.00	ug/L
79-01-6	Trichloroethene	18.2		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.2		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.4		0.87	5.00	ug/L
108-88-3	Toluene	19.1		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.4		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBS01	SDG No.:	M3859
Lab Sample ID:	VU0925WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044833.D	1		09/25/21 13:50	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.6		0.24	1.00	ug/L
591-78-6	2-Hexanone	97.1		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	19.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.1		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	39.4		0.32	2.00	ug/L
95-47-6	o-Xylene	19.9		0.19	1.00	ug/L
100-42-5	Styrene	18.7		0.16	1.00	ug/L
75-25-2	Bromoform	18.0		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.8		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.4		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	145000	5.379			
540-36-3	1,4-Difluorobenzene	264000	6.253			
3114-55-4	Chlorobenzene-d5	250000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	124000	11.816			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBS01	SDG No.:	M3859
Lab Sample ID:	VU0925WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044833.D	1		09/25/21 13:50	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044833.D
Acq On : 25 Sep 2021 13:50
Operator : SY/MD
Sample : VU0925WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 01:30:11 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	145265	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	263524	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	250123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	123767	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	132888	52.416	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.840%			
35) Dibromofluoromethane	5.295	113	91018	50.347	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.700%			
50) Toluene-d8	7.903	98	345650	50.625	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.240%			
62) 4-Bromofluorobenzene	10.636	95	126631	49.934	ug/l	0.00
Spiked Amount 50.000			Recovery = 99.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	34186	19.650	ug/l	100
3) Chloromethane	1.520	50	46022	17.431	ug/l	98
4) Vinyl Chloride	1.607	62	45629	18.517	ug/l	100
5) Bromomethane	1.848	94	28654	21.238	ug/l	99
6) Chloroethane	1.929	64	31043	18.540	ug/l	100
7) Trichlorofluoromethane	2.138	101	60078	19.852	ug/l	99
8) Diethyl Ether	2.379	74	28069	20.262	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.585	101	34557	19.554	ug/l	99
10) Methyl Iodide	2.726	142	33148	17.261	ug/l	98
11) Tert butyl alcohol	3.202	59	71076	96.052	ug/l	99
12) 1,1-Dichloroethene	2.581	96	32757	18.729	ug/l	100
13) Acrolein	2.488	56	18763	93.732	ug/l	100
14) Allyl chloride	2.925	41	64006	18.854	ug/l	98
15) Acrylonitrile	3.321	53	154352	99.857	ug/l	100
16) Acetone	2.636	43	147942	103.451	ug/l	100
17) Carbon Disulfide	2.797	76	85410	17.359	ug/l	99
18) Methyl Acetate	2.954	43	92046	19.266	ug/l	99
19) Methyl tert-butyl Ether	3.369	73	131599	20.149	ug/l	98
20) Methylene Chloride	3.051	84	44309	19.140	ug/l	97
21) trans-1,2-Dichloroethene	3.356	96	36765	19.632	ug/l	97
22) Diisopropyl ether	3.999	45	132916	19.816	ug/l	94
23) Vinyl Acetate	3.961	43	546483	99.349	ug/l	99
24) 1,1-Dichloroethane	3.874	63	76520	19.654	ug/l	99
25) 2-Butanone	4.710	43	215441	99.289	ug/l	99
26) 2,2-Dichloropropane	4.671	77	59718	20.453	ug/l	100
27) cis-1,2-Dichloroethene	4.671	96	44030	19.332	ug/l	99
28) Bromochloromethane	4.980	49	36468	19.711	ug/l	99
29) Tetrahydrofuran	5.057	42	133918	98.101	ug/l	97
30) Chloroform	5.093	83	77138	19.705	ug/l	96
31) Cyclohexane	5.392	56	67142	18.446	ug/l	94
32) 1,1,1-Trichloroethane	5.321	97	61069	19.307	ug/l	98
36) 1,1-Dichloropropene	5.530	75	52061	18.620	ug/l	99
37) Ethyl Acetate	4.810	43	77583	18.911	ug/l	98
38) Carbon Tetrachloride	5.530	117	47631	19.055	ug/l	98
39) Methylcyclohexane	6.768	83	61422	19.423	ug/l	98
40) Benzene	5.777	78	162736	19.090	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044833.D
Acq On : 25 Sep 2021 13:50
Operator : SY/MD
Sample : VU0925WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 01:30:11 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.977	41	40431	19.743	ug/l		96
42) 1,2-Dichloroethane	5.797	62	67363	20.086	ug/l		99
43) Isopropyl Acetate	5.916	43	114264	19.908	ug/l		100
44) Trichloroethene	6.546	130	37187	18.151	ug/l		98
45) 1,2-Dichloropropane	6.793	63	44218	19.166	ug/l		96
46) Dibromomethane	6.922	93	30947	20.244	ug/l		97
47) Bromodichloromethane	7.109	83	58070	19.257	ug/l		100
48) Methyl methacrylate	6.964	41	53049	19.581	ug/l		97
49) 1,4-Dioxane	6.980	88	28918	417.659	ug/l		97
51) 4-Methyl-2-Pentanone	7.797	43	402634	98.427	ug/l		100
52) Toluene	7.973	92	97101	19.052	ug/l		98
53) t-1,3-Dichloropropene	8.215	75	60880	19.378	ug/l		98
54) cis-1,3-Dichloropropene	7.610	75	66781	19.628	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	42731	19.610	ug/l		97
56) Ethyl methacrylate	8.337	69	67172	18.539	ug/l		99
57) 1,3-Dichloropropane	8.578	76	75590	19.482	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.465	63	50141	71.981	ug/l		98
59) 2-Hexanone	8.687	43	318915	97.125	ug/l		100
60) Dibromochloromethane	8.813	129	39887	19.115	ug/l		98
61) 1,2-Dibromoethane	8.925	107	45020	19.677	ug/l		99
64) Tetrachloroethene	8.555	164	32368	19.092	ug/l		99
65) Chlorobenzene	9.449	112	101799	19.605	ug/l		98
66) 1,1,1,2-Tetrachloroethane	9.536	131	34475	18.615	ug/l		98
67) Ethyl Benzene	9.571	91	179898	19.411	ug/l		100
68) m/p-Xylenes	9.697	106	139723	39.417	ug/l		100
69) o-Xylene	10.102	106	68199	19.897	ug/l		99
70) Styrene	10.118	104	115718	18.709	ug/l		99
71) Bromoform	10.295	173	27526	17.962	ug/l	#	100
73) Isopropylbenzene	10.488	105	177039	20.154	ug/l		100
74) N-amyl acetate	10.324	43	88406	19.745	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.787	83	77886	19.462	ug/l		100
76) 1,2,3-Trichloropropane	10.825	75	74347m	19.837	ug/l		
77) Bromobenzene	10.784	156	41219	19.640	ug/l		98
78) n-propylbenzene	10.909	91	217840	20.466	ug/l		99
79) 2-Chlorotoluene	10.989	91	131450	20.263	ug/l		99
80) 1,3,5-Trimethylbenzene	11.092	105	152195	20.454	ug/l		99
81) trans-1,4-Dichloro-2-b...	10.549	75	21942	18.965	ug/l		94
82) 4-Chlorotoluene	11.099	91	151278	20.483	ug/l		99
83) tert-Butylbenzene	11.423	119	141654	19.734	ug/l		99
84) 1,2,4-Trimethylbenzene	11.472	105	154161	21.015	ug/l		99
85) sec-Butylbenzene	11.645	105	191323	20.612	ug/l		100
86) p-Isopropyltoluene	11.796	119	155473	20.589	ug/l		98
87) 1,3-Dichlorobenzene	11.748	146	80140	19.677	ug/l		99
88) 1,4-Dichlorobenzene	11.838	146	80162	19.033	ug/l		97
89) n-Butylbenzene	12.211	91	140169	18.837	ug/l		99
90) Hexachloroethane	12.478	117	25398	18.666	ug/l		97
91) 1,2-Dichlorobenzene	12.214	146	81266	18.829	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.999	75	18910	19.487	ug/l		97
93) 1,2,4-Trichlorobenzene	13.841	180	46154	19.353	ug/l		99
94) Hexachlorobutadiene	14.025	225	19826	18.687	ug/l		100
95) Naphthalene	14.089	128	173352	18.860	ug/l		99
96) 1,2,3-Trichlorobenzene	14.333	180	48448	19.978	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044833.D
Acq On : 25 Sep 2021 13:50
Operator : SY/MD
Sample : VU0925WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 01:30:11 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044833.D
Acq On : 25 Sep 2021 13:50
Operator : SY/MD
Sample : VU0925WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 01:30:11 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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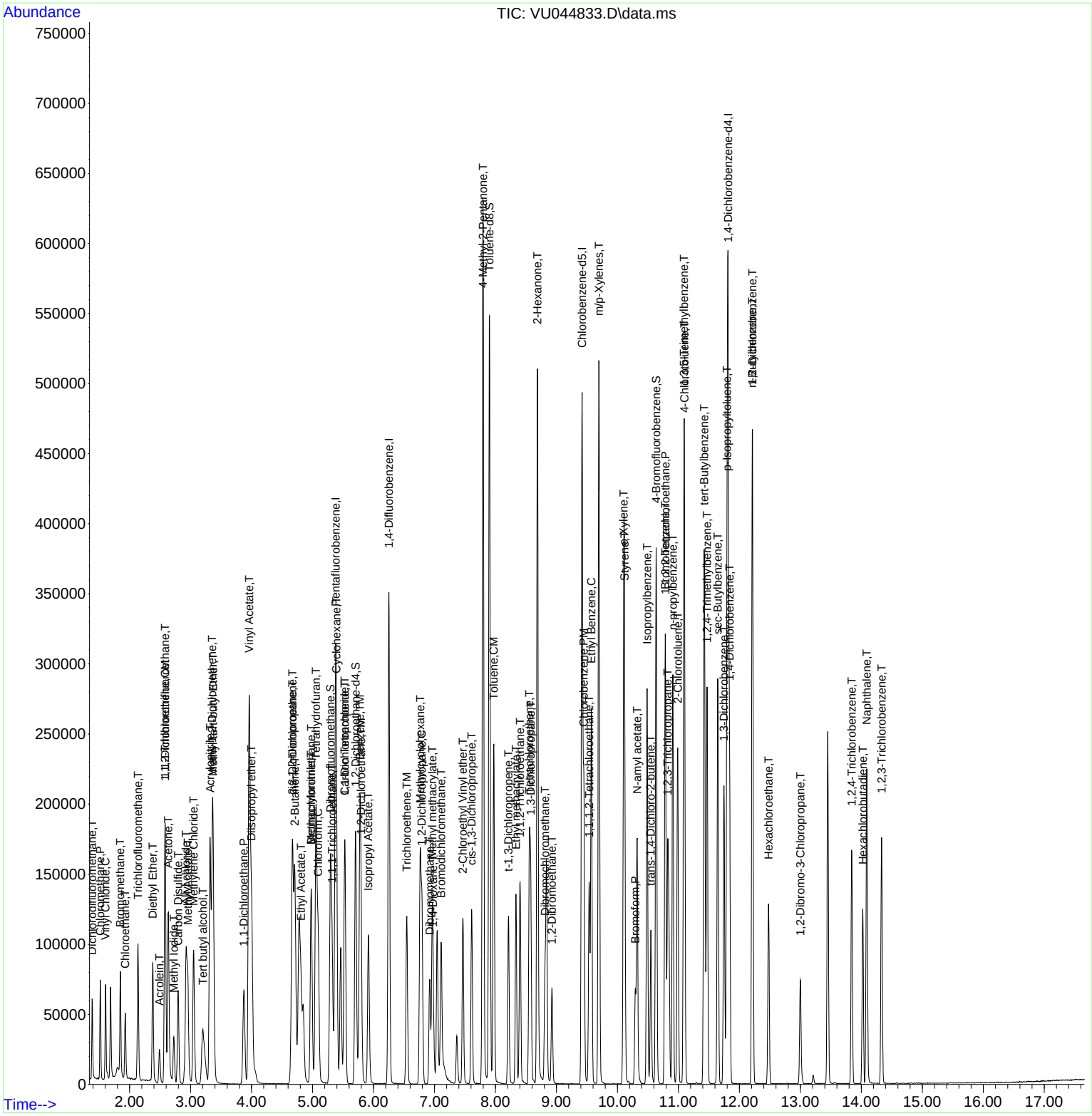
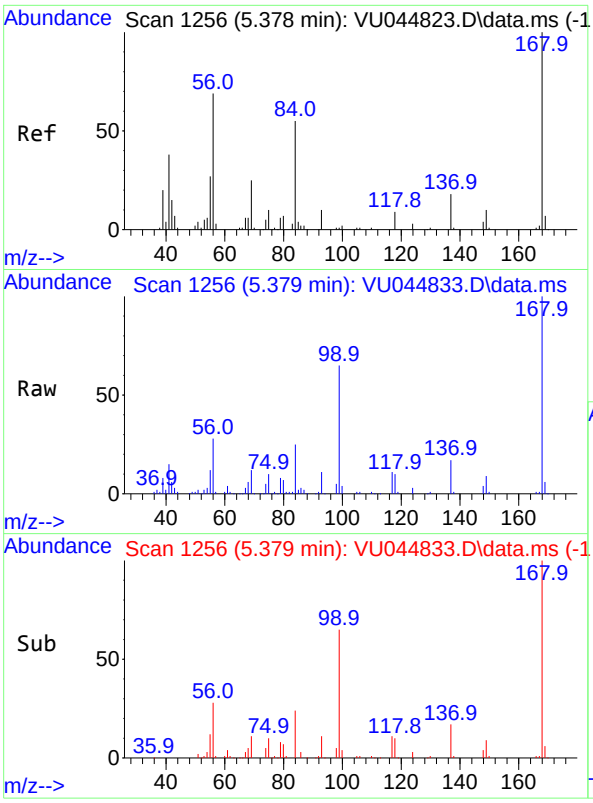
9/27/2021 11:03:02 AM



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

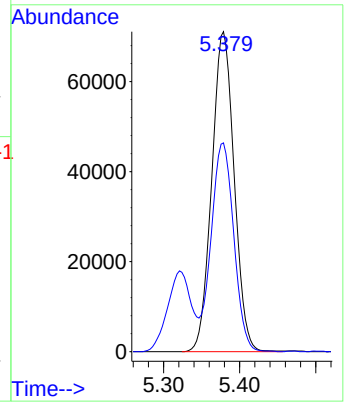
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

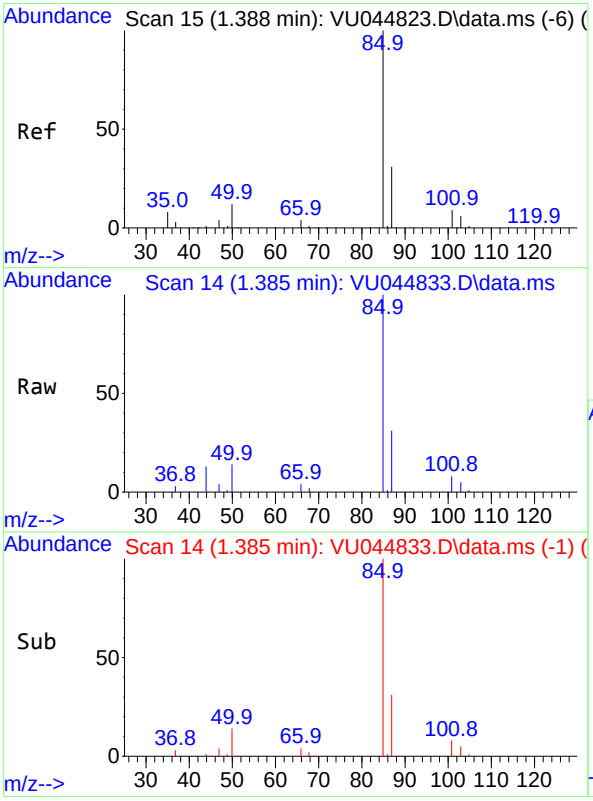


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:168 Resp: 145265

Ion	Ratio	Lower	Upper
168	100		
99	65.2	51.4	77.0

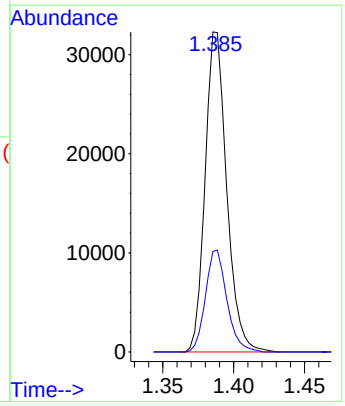




#2
Dichlorodifluoromethane
Concen: 19.650 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

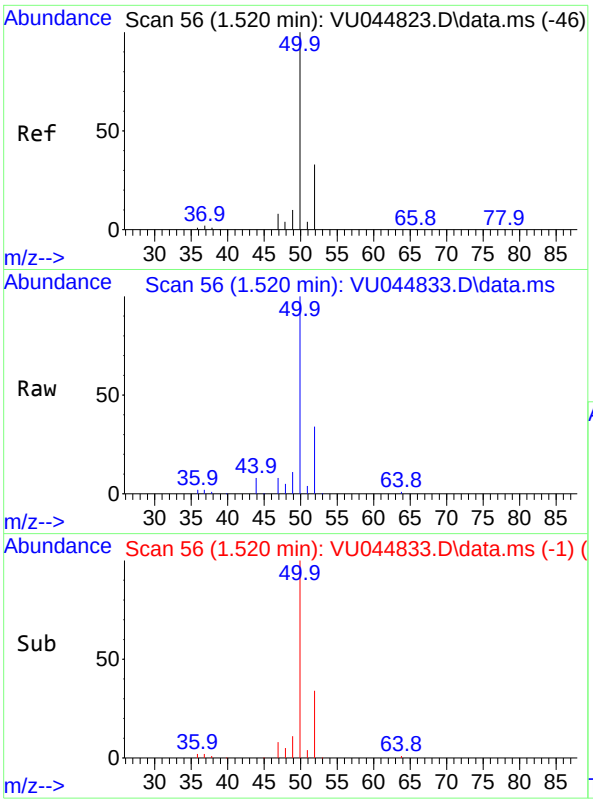
Tgt Ion: 85 Resp: 34186

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

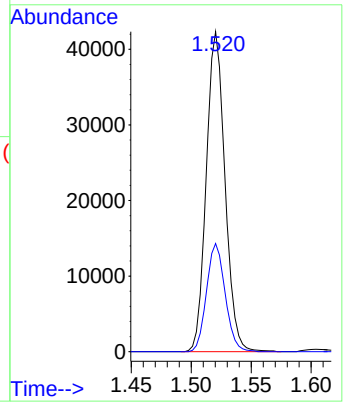
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

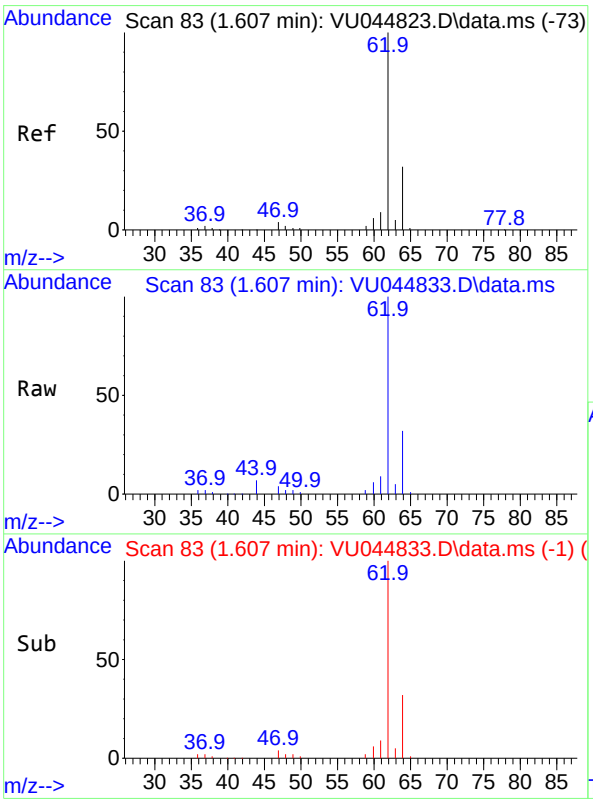


#3
Chloromethane
Concen: 17.431 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 50 Resp: 46022

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.3	39.5

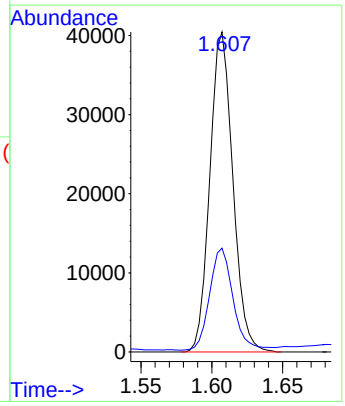




#4
Vinyl Chloride
Concen: 18.517 ug/l
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

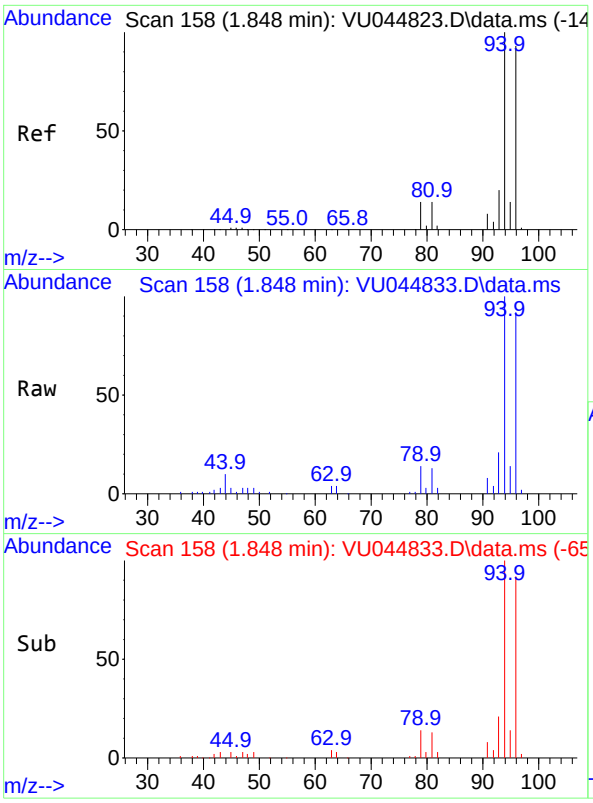
Tgt Ion: 62 Resp: 45629

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

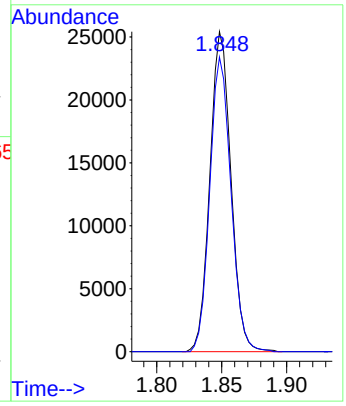
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

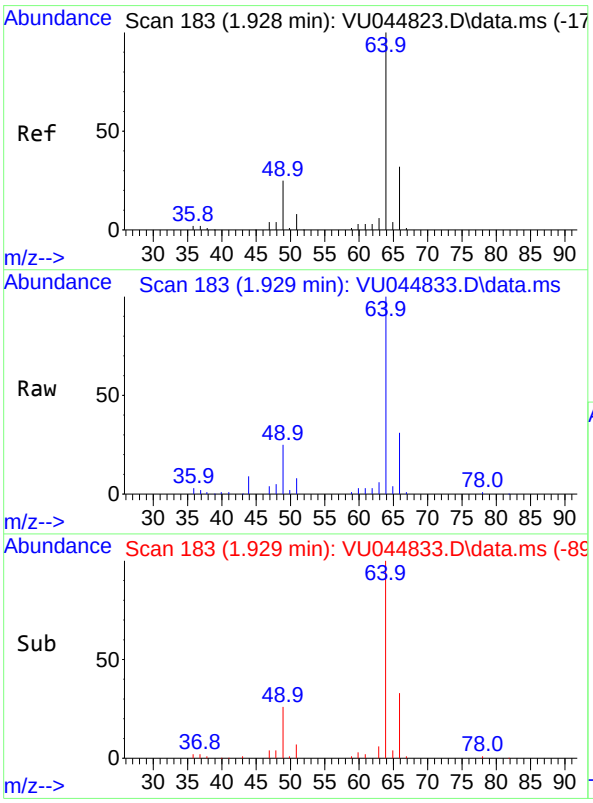


#5
Bromomethane
Concen: 21.238 ug/l
RT: 1.848 min Scan# 158
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 94 Resp: 28654

Ion	Ratio	Lower	Upper
94	100		
96	92.0	74.5	111.7

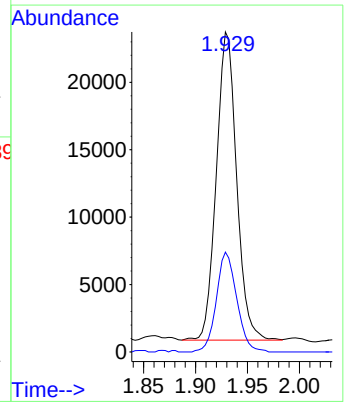




#6
Chloroethane
Concen: 18.540 ug/l
RT: 1.929 min Scan# 183
Delta R.T. 0.001 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

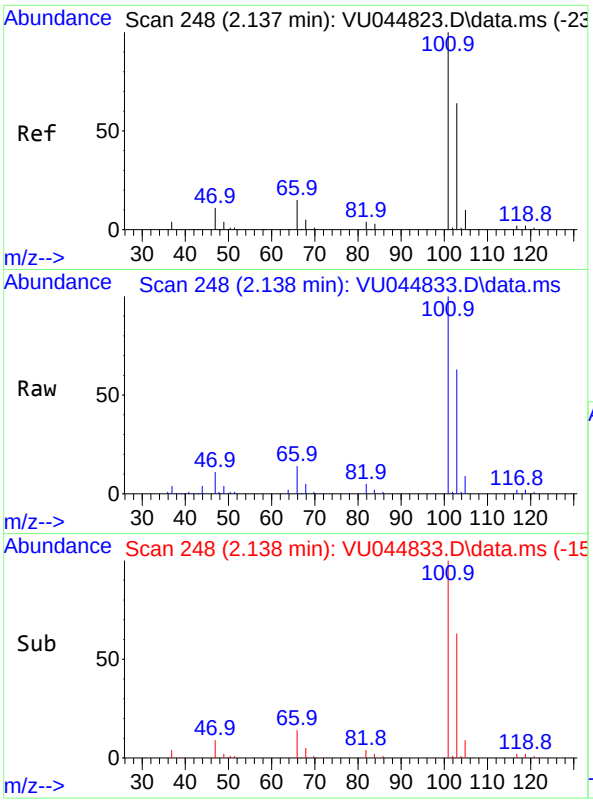
Tgt Ion: 64 Resp: 31043

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

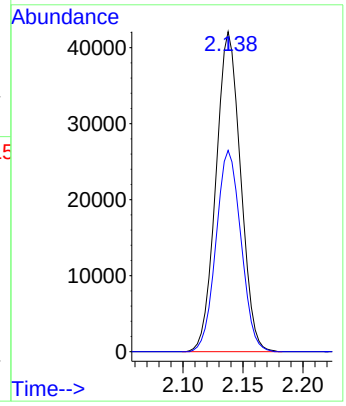
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

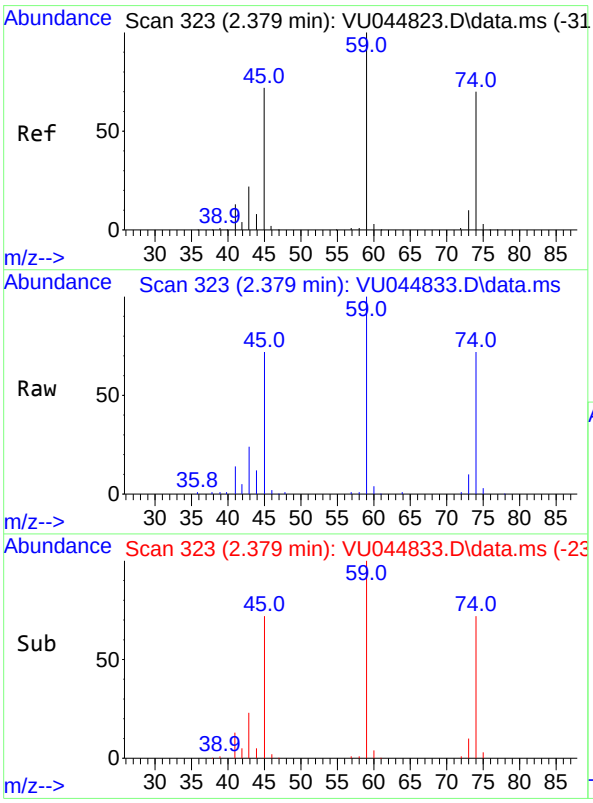


#7
Trichlorofluoromethane
Concen: 19.852 ug/l
RT: 2.138 min Scan# 248
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:101 Resp: 60078

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.2	76.8

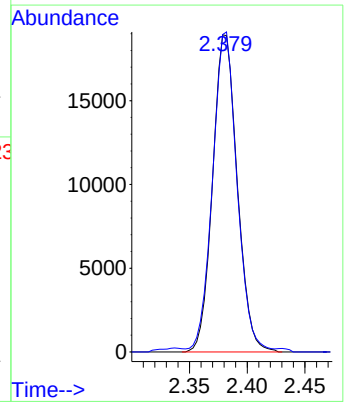




#8
Diethyl Ether
Concen: 20.262 ug/l
RT: 2.379 min Scan# 323
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 74 Resp: 28069

Ion	Ratio	Lower	Upper
74	100		
45	97.7	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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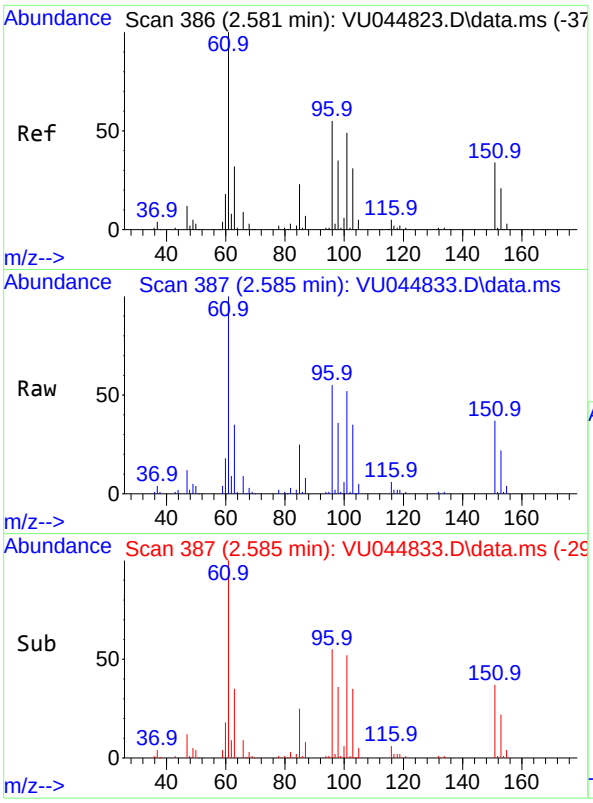
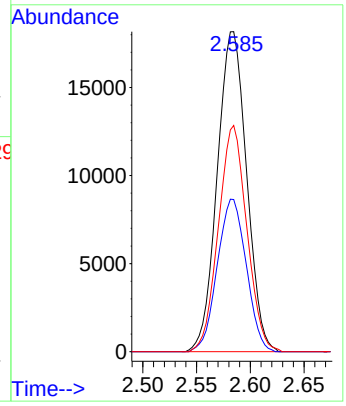
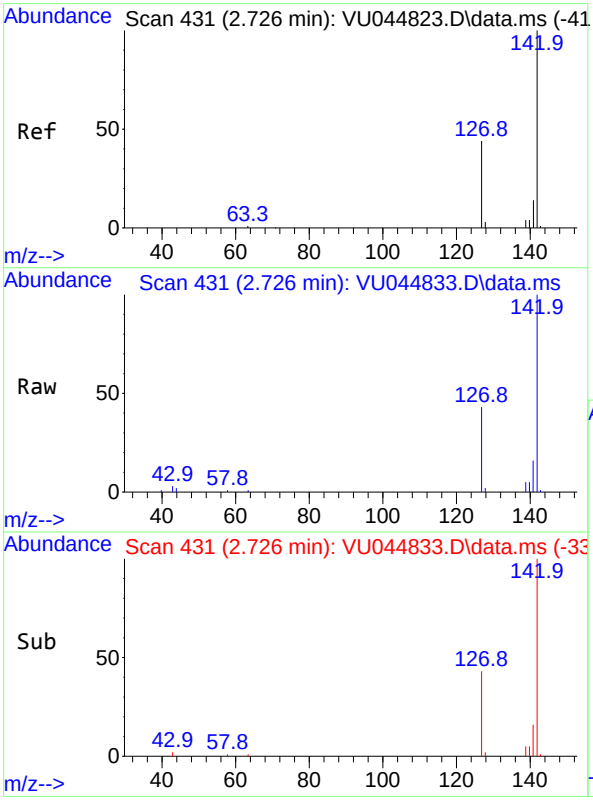


#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.554 ug/l
RT: 2.585 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:101 Resp: 34557

Ion	Ratio	Lower	Upper
101	100		
85	47.0	37.2	55.8
151	68.5	55.8	83.8

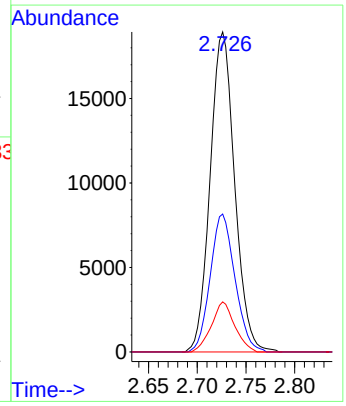




#10
Methyl Iodide
Concen: 17.261 ug/l
RT: 2.726 min Scan# 431
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:142 Resp: 33148

Ion	Ratio	Lower	Upper
142	100		
127	43.5	35.6	53.4
141	14.9	11.3	16.9



Instrument :
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ClientSampleId :
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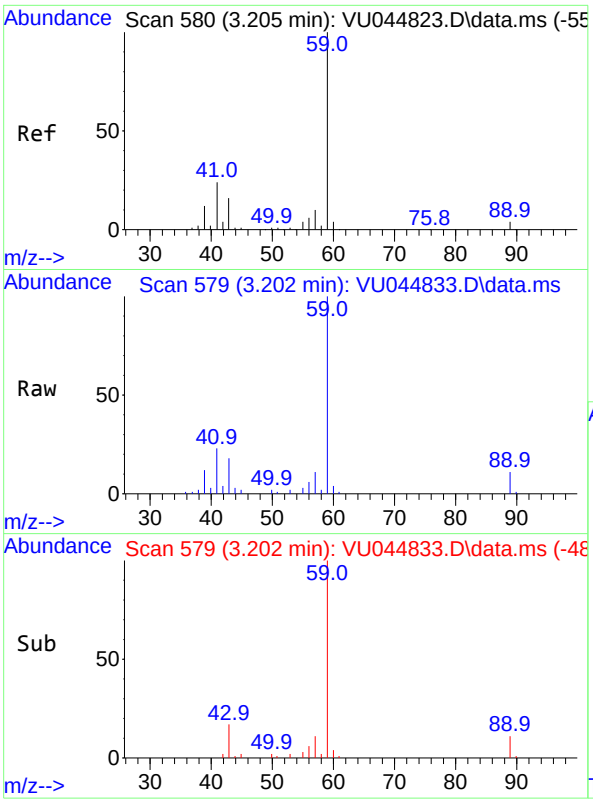
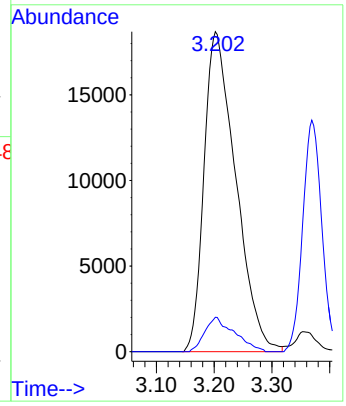
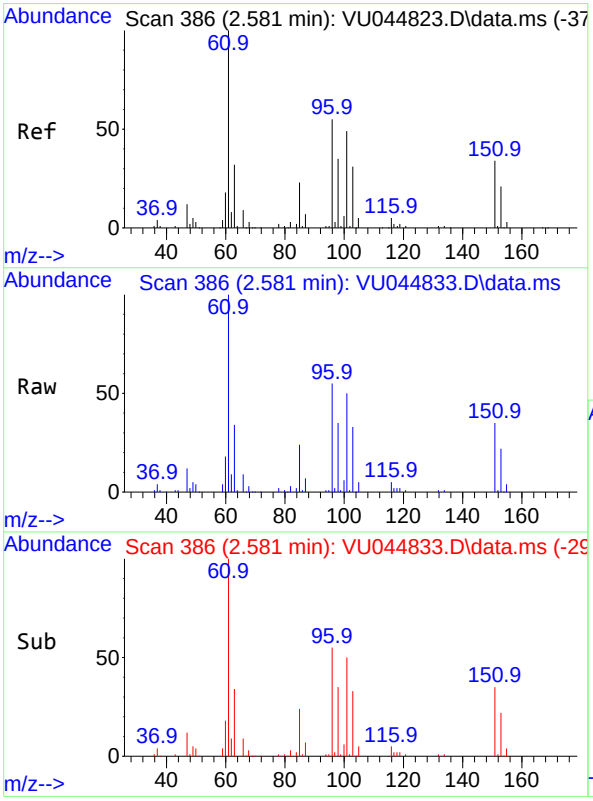


#11
Tert butyl alcohol
Concen: 96.052 ug/l
RT: 3.202 min Scan# 579
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 59 Resp: 71076

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5

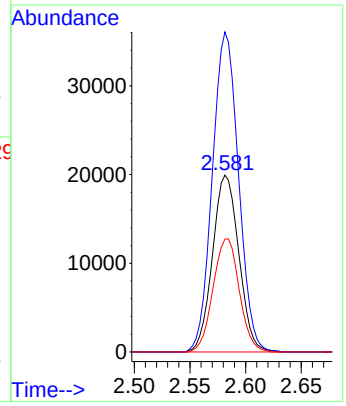




#12
1,1-Dichloroethene
Concen: 18.729 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 96 Resp: 32757

Ion	Ratio	Lower	Upper
96	100		
61	180.9	145.4	218.0
98	63.7	50.9	76.3



Instrument :
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ClientSampleId :
VU0925WBS01

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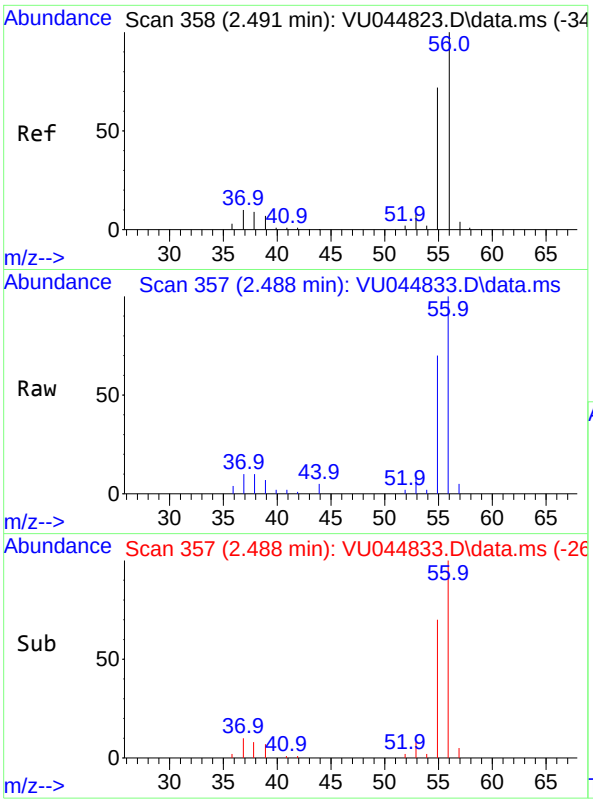
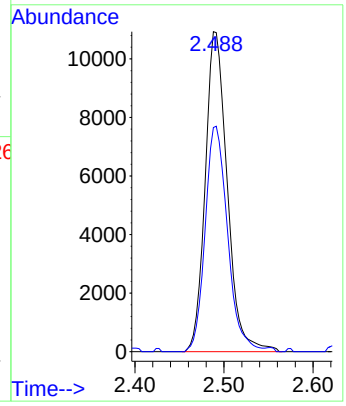
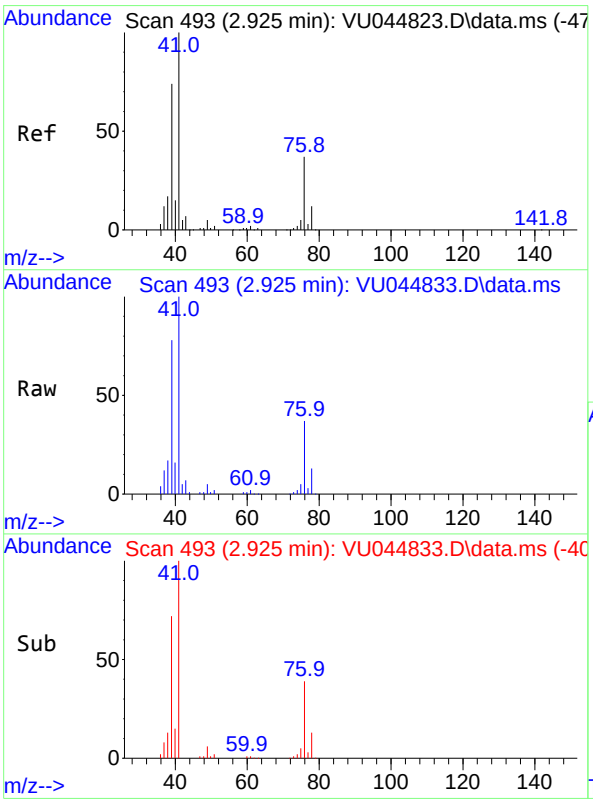


#13
Acrolein
Concen: 93.732 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 56 Resp: 18763

Ion	Ratio	Lower	Upper
56	100		
55	71.7	57.4	86.0

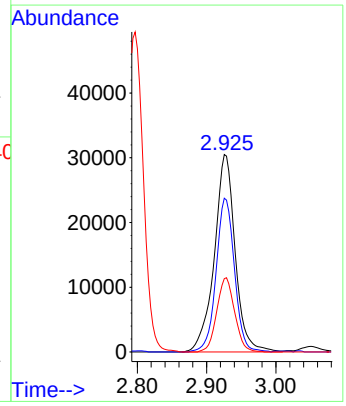




#14
Allyl chloride
Concen: 18.854 ug/l
RT: 2.925 min Scan# 493
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 41 Resp: 64006

Ion	Ratio	Lower	Upper
41	100		
39	68.4	53.0	79.6
76	32.1	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
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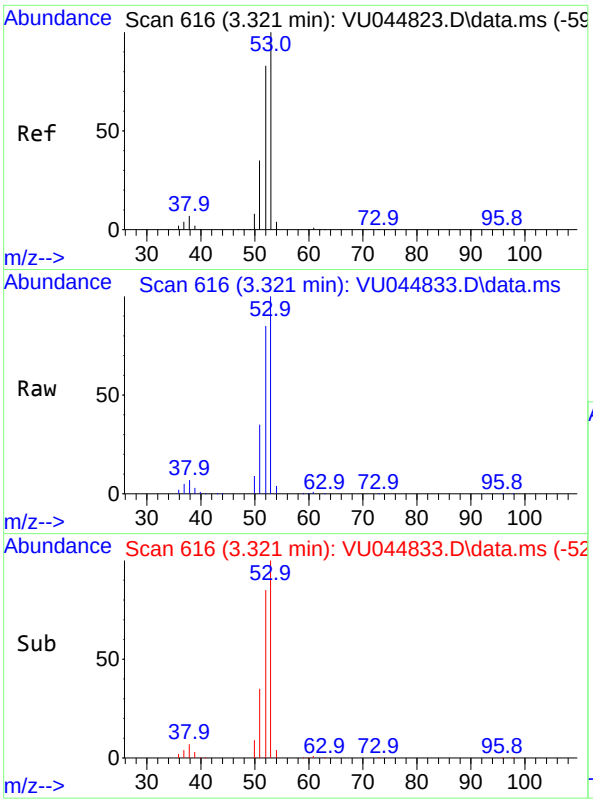
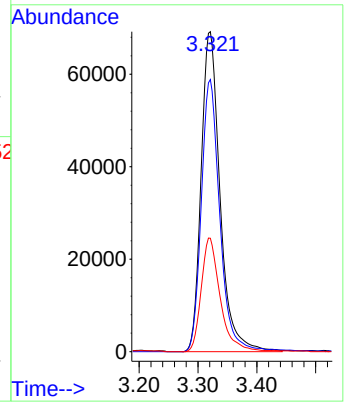
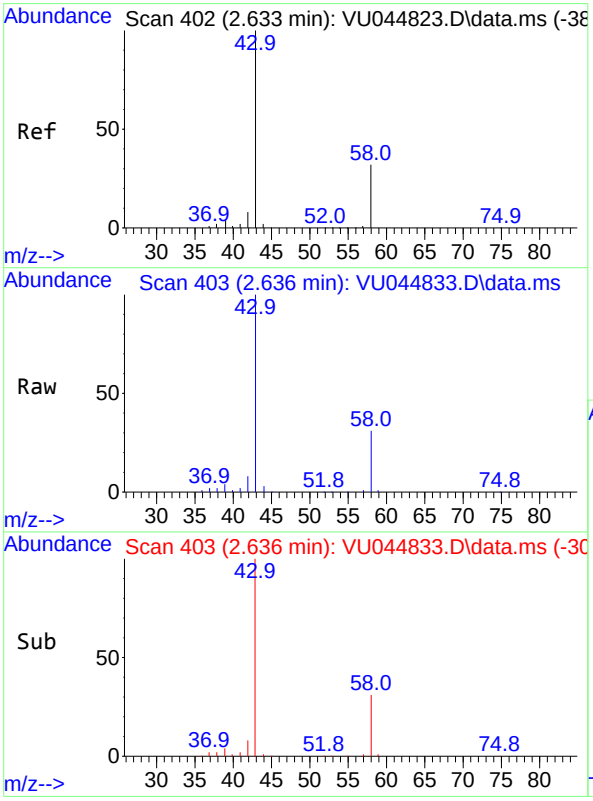


#15
Acrylonitrile
Concen: 99.857 ug/l
RT: 3.321 min Scan# 616
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 53 Resp: 154352

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.0	99.0
51	35.7	28.6	42.8

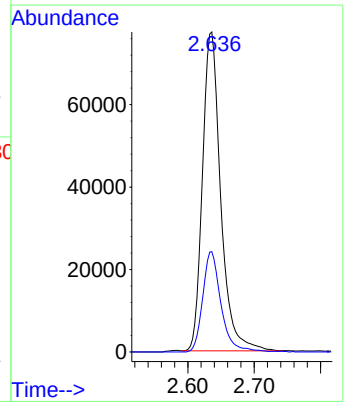




#16
Acetone
Concen: 103.451 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 147942

Ion	Ratio	Lower	Upper
43	100		
58	31.5	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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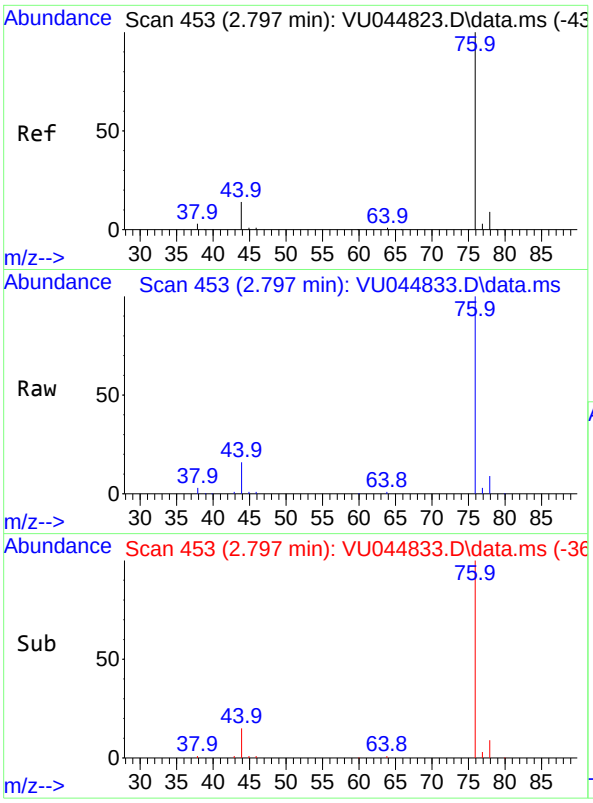
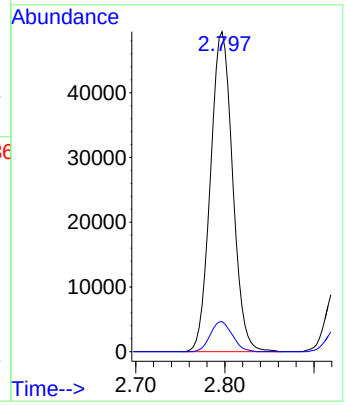
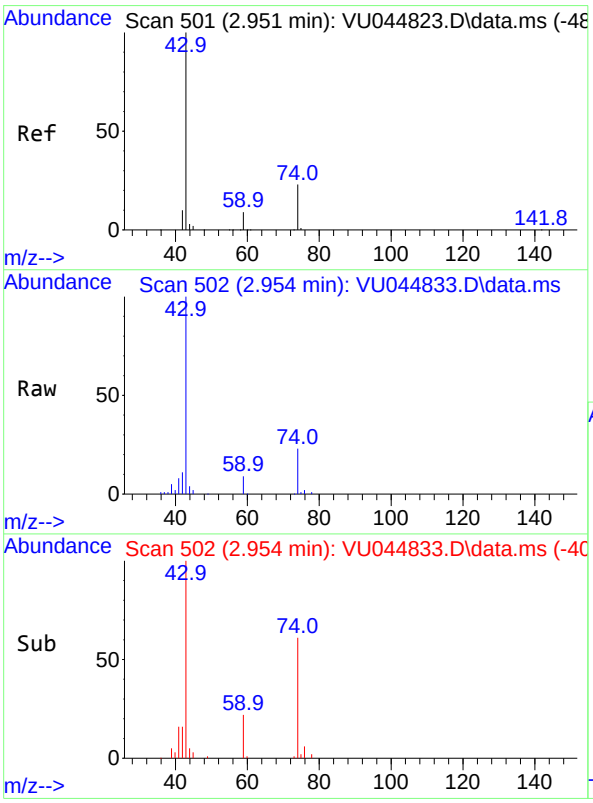


#17
Carbon Disulfide
Concen: 17.359 ug/l
RT: 2.797 min Scan# 453
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 76 Resp: 85410

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

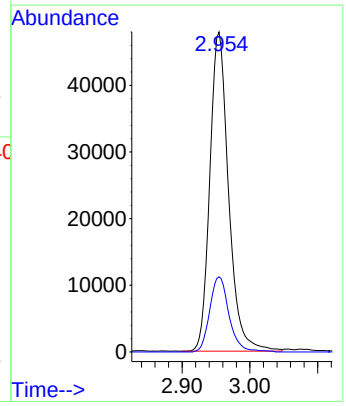




#18
Methyl Acetate
Concen: 19.266 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 92046

Ion	Ratio	Lower	Upper
43	100		
74	24.3	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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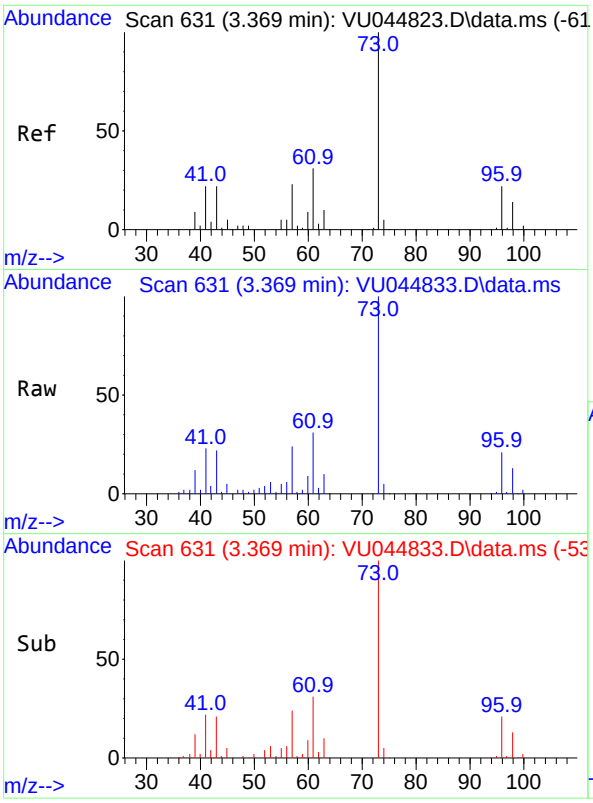
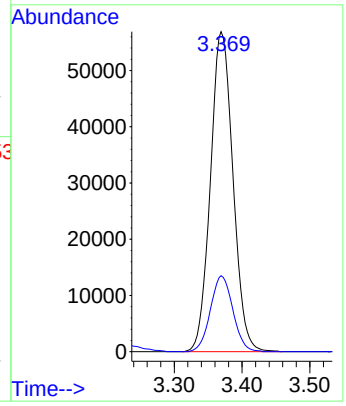
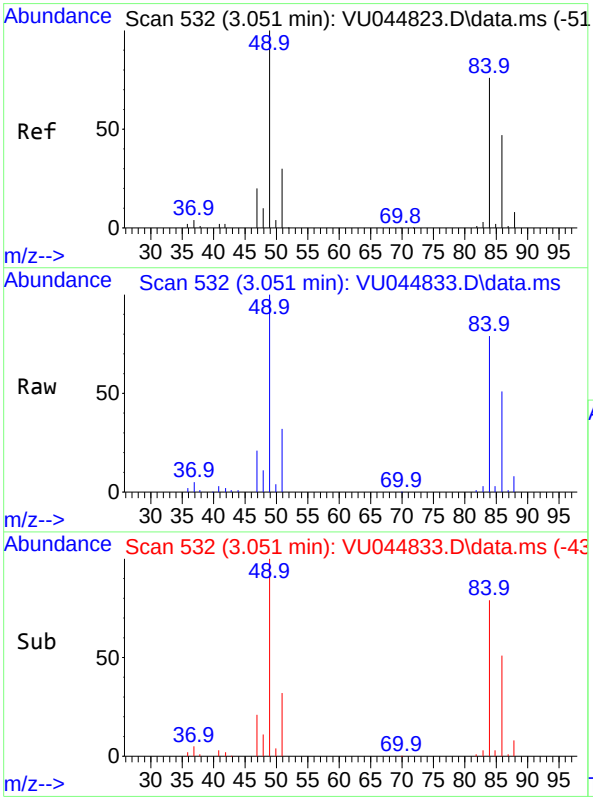


#19
Methyl tert-butyl Ether
Concen: 20.149 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 73 Resp: 131599

Ion	Ratio	Lower	Upper
73	100		
57	23.8	18.2	27.2

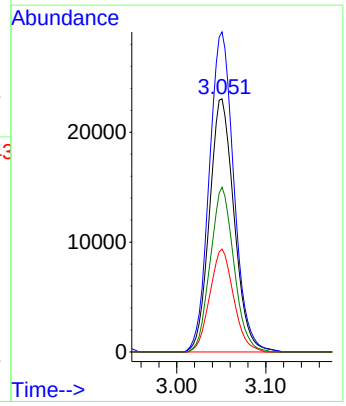




#20
Methylene Chloride
Concen: 19.140 ug/l
RT: 3.051 min Scan# 532
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 84 Resp: 44309

Ion	Ratio	Lower	Upper
84	100		
49	126.5	104.9	157.3
51	40.6	31.8	47.8
86	65.1	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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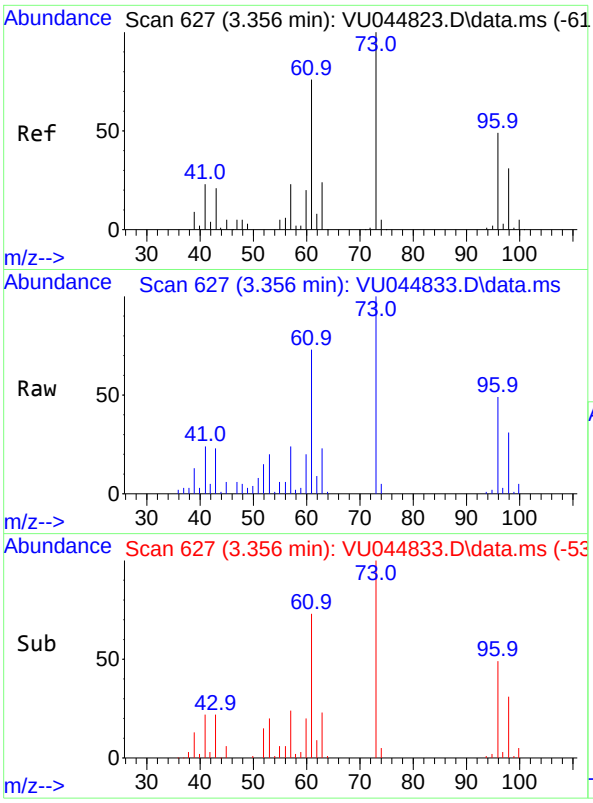
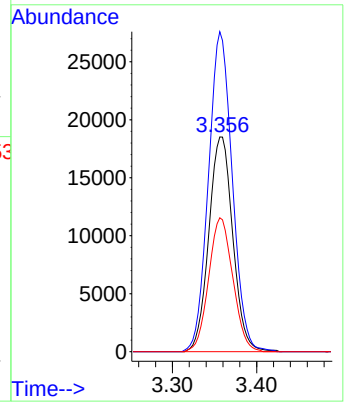
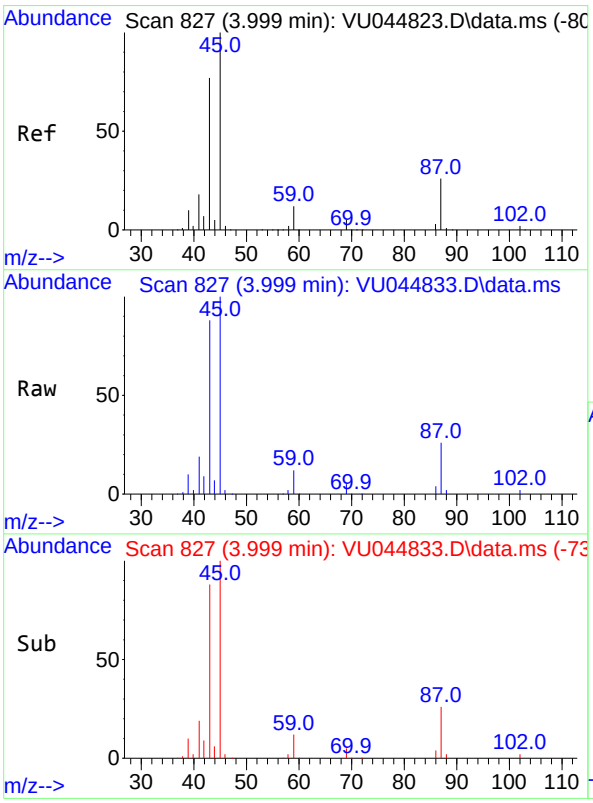


#21
trans-1,2-Dichloroethene
Concen: 19.632 ug/l
RT: 3.356 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 96 Resp: 36765

Ion	Ratio	Lower	Upper
96	100		
61	149.0	123.2	184.8
98	62.4	51.0	76.6

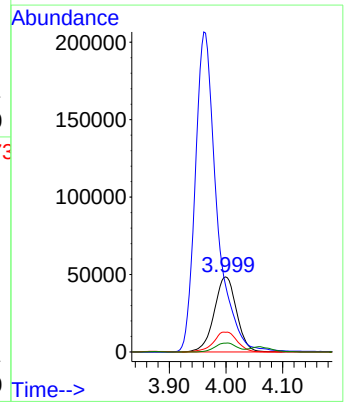




#22
Diisopropyl ether
Concen: 19.816 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 45 Resp: 132916

Ion	Ratio	Lower	Upper
45	100		
43	86.2	62.3	93.5
87	26.3	21.0	31.4
59	11.8	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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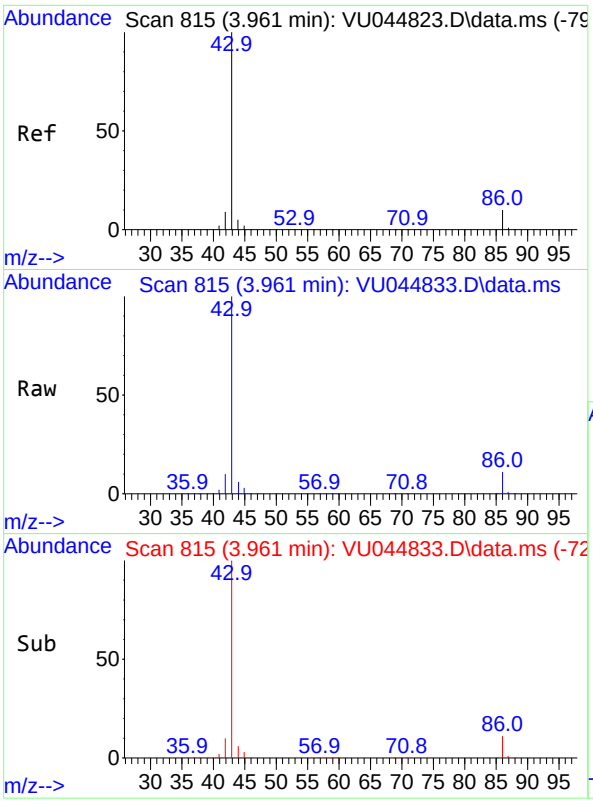
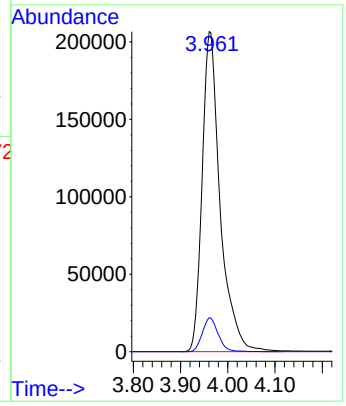
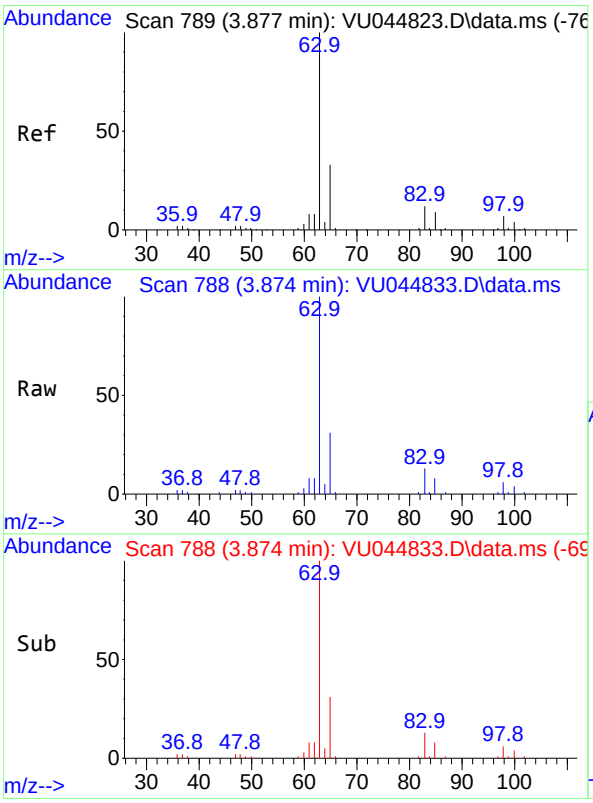


#23
Vinyl Acetate
Concen: 99.349 ug/l
RT: 3.961 min Scan# 815
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 546483

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.2	12.4

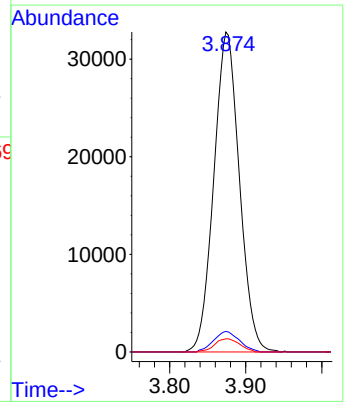




#24
1,1-Dichloroethane
Concen: 19.654 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 63 Resp: 76520

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.5	10.4
100	4.1	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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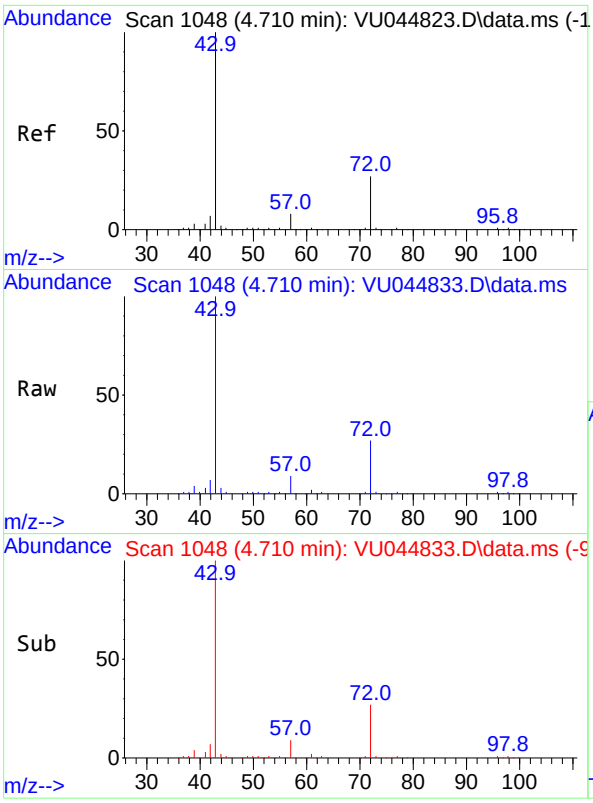
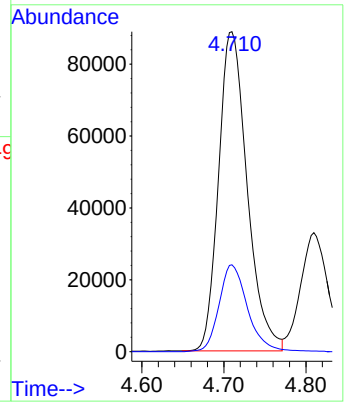
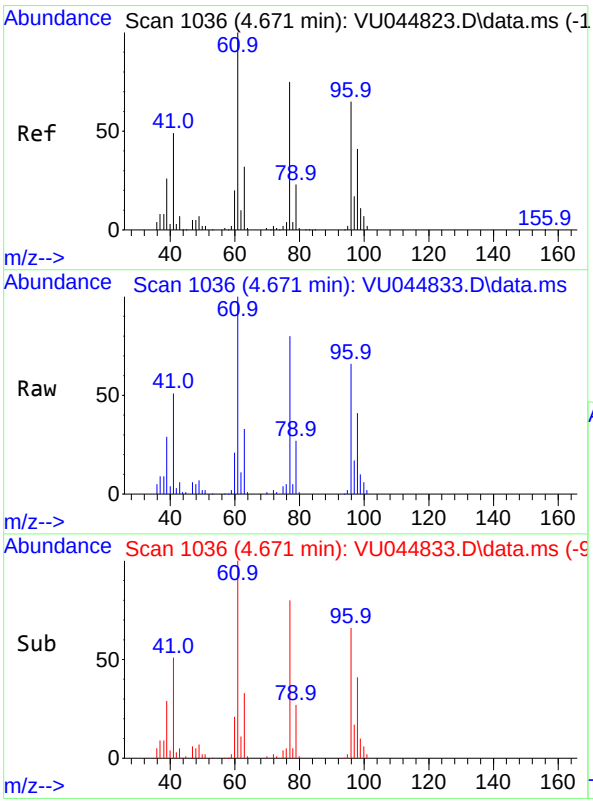


#25
2-Butanone
Concen: 99.289 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 215441

Ion	Ratio	Lower	Upper
43	100		
72	27.2	21.3	31.9

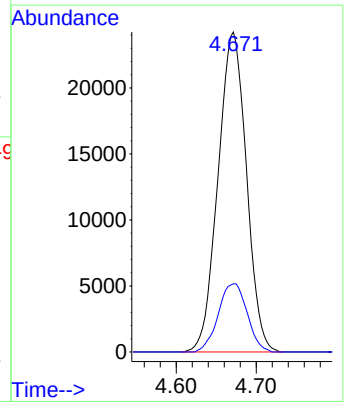




#26
2,2-Dichloropropane
Concen: 20.453 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 77 Resp: 59718

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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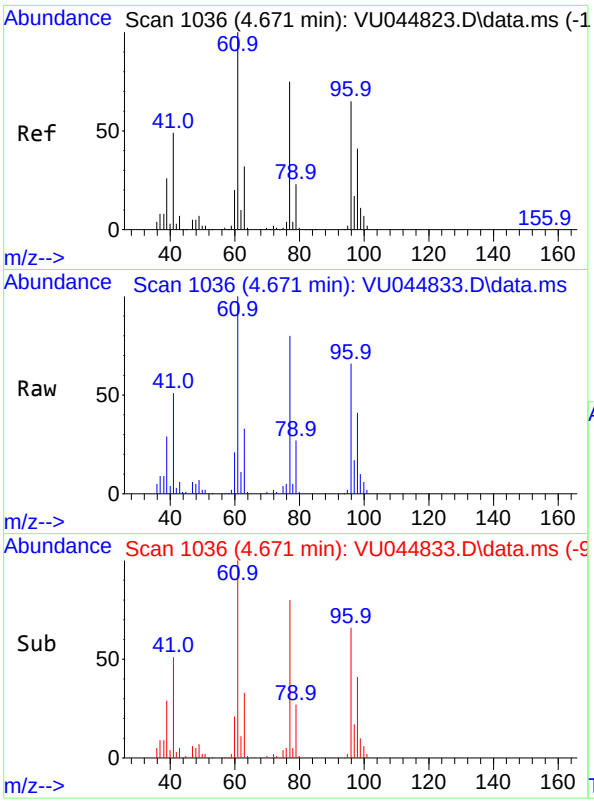
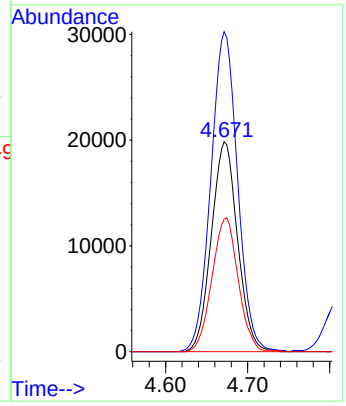
9/27/2021 11:03:02 AM

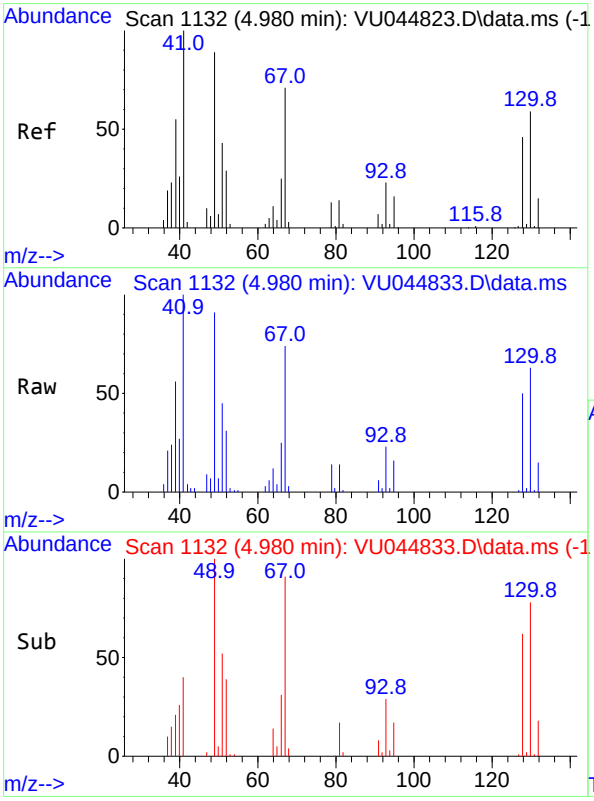


#27
cis-1,2-Dichloroethene
Concen: 19.332 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 96 Resp: 44030

Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	313.4
98	63.9	0.0	127.0

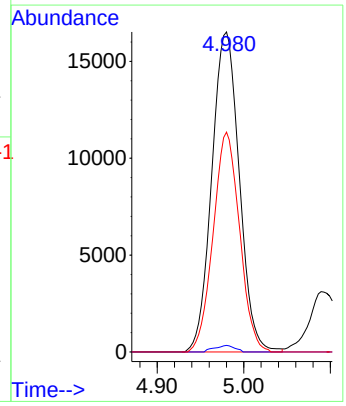




#28
Bromochloromethane
Concen: 19.711 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 49 Resp: 36468

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	65.9	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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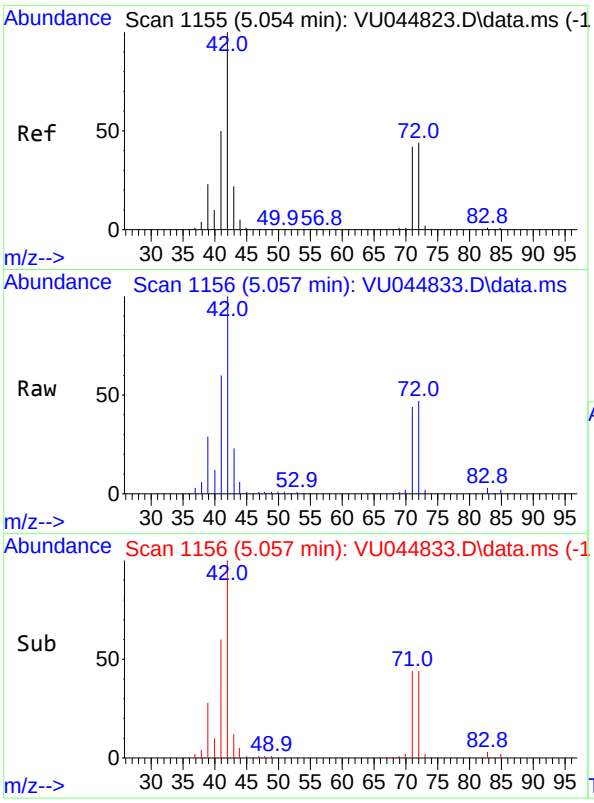
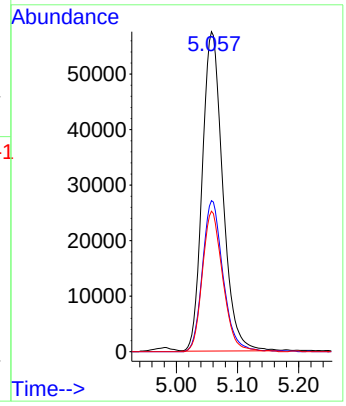
9/27/2021 11:03:02 AM

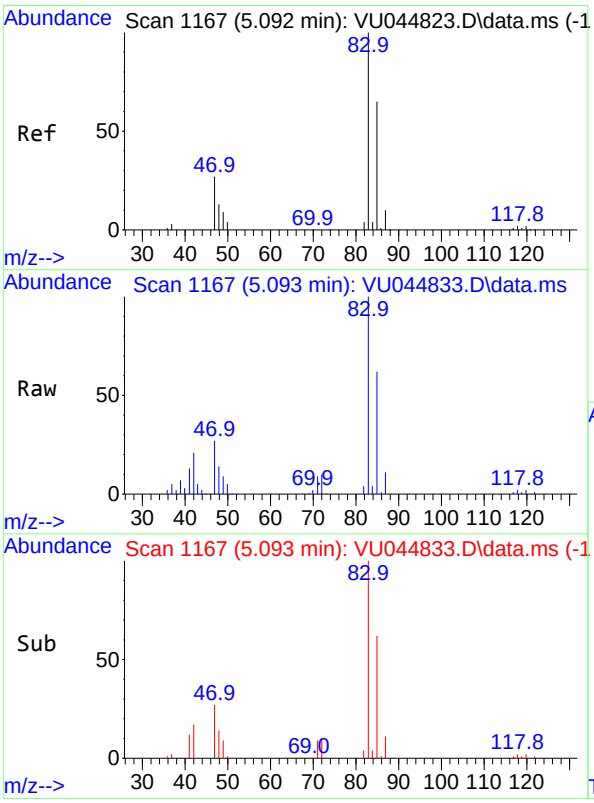


#29
Tetrahydrofuran
Concen: 98.101 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 42 Resp: 133918

Ion	Ratio	Lower	Upper
42	100		
72	47.4	36.2	54.4
71	43.8	34.1	51.1

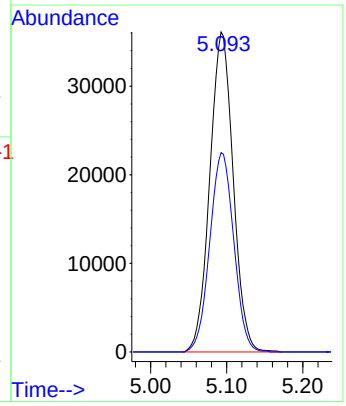




#30
Chloroform
Concen: 19.705 ug/l
RT: 5.093 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 83 Resp: 77138

Ion	Ratio	Lower	Upper
83	100		
85	62.3	52.1	78.1



Instrument :
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ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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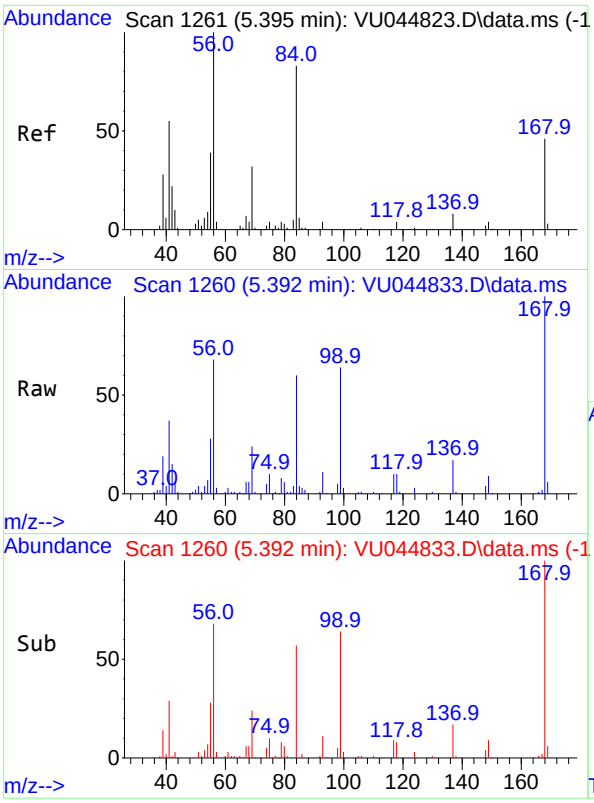
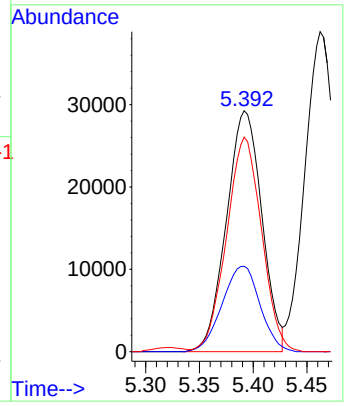
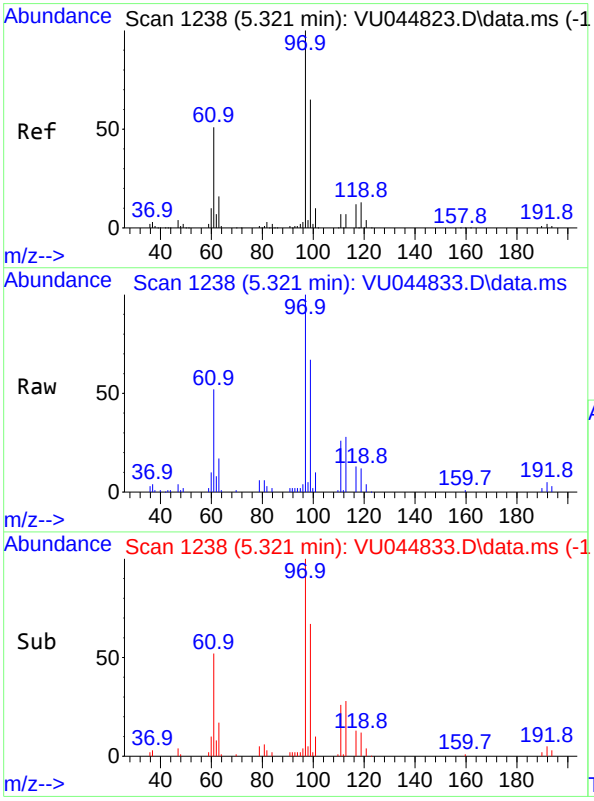


#31
Cyclohexane
Concen: 18.446 ug/l
RT: 5.392 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 56 Resp: 67142

Ion	Ratio	Lower	Upper
56	100		
69	35.4	25.2	37.8
84	87.8	66.4	99.6

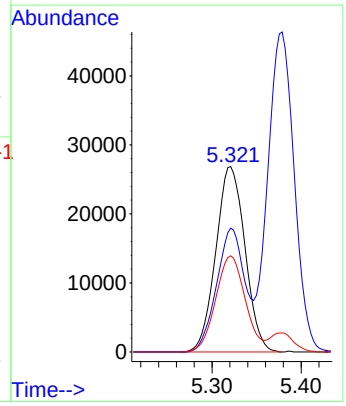




#32
1,1,1-Trichloroethane
Concen: 19.307 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 97 Resp: 61069

Ion	Ratio	Lower	Upper
97	100		
99	64.9	50.9	76.3
61	52.8	40.7	61.1



Instrument :
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ClientSampleId :
VU0925WBS01

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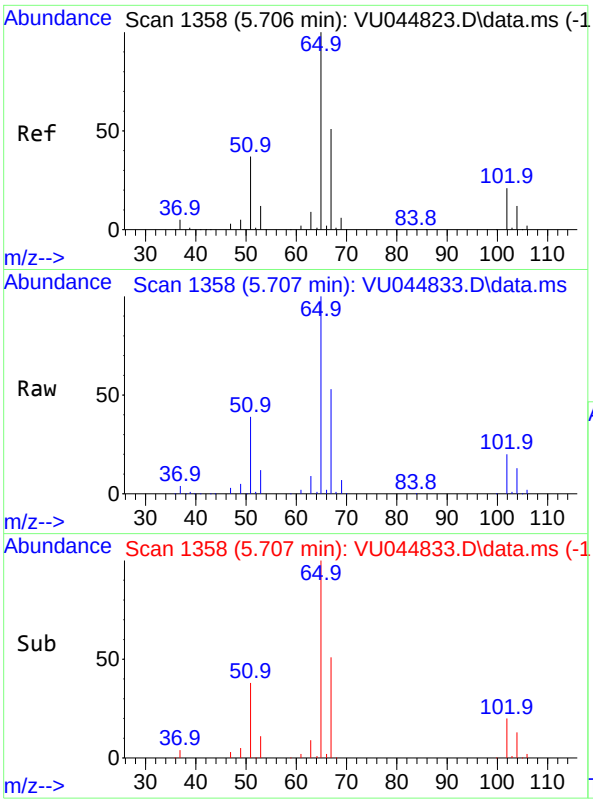
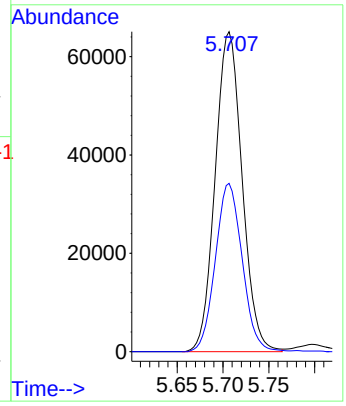
9/27/2021 11:03:02 AM

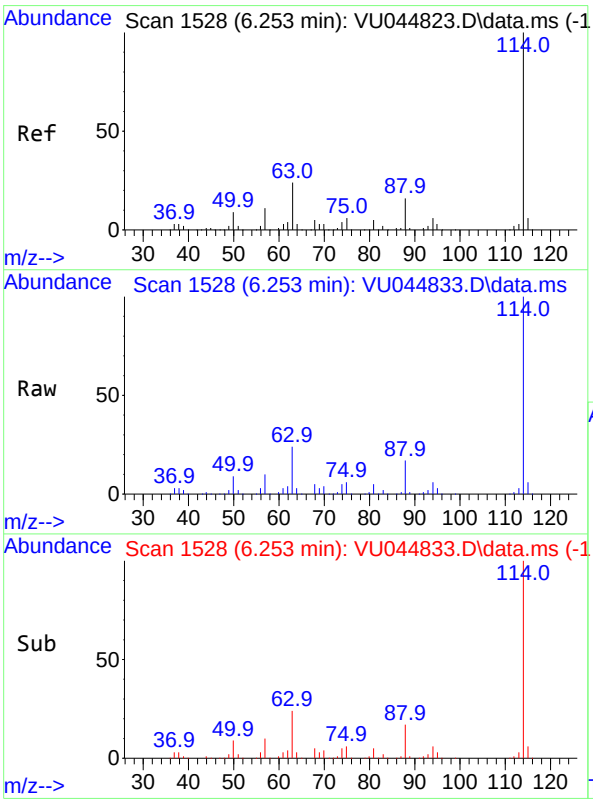


#33
1,2-Dichloroethane-d4
Concen: 52.416 ug/l
RT: 5.707 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 65 Resp: 132888

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.8

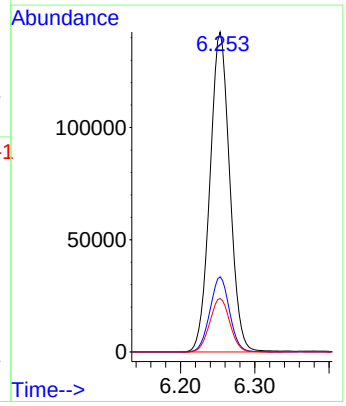




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:114 Resp: 263524

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	47.8
88	16.7	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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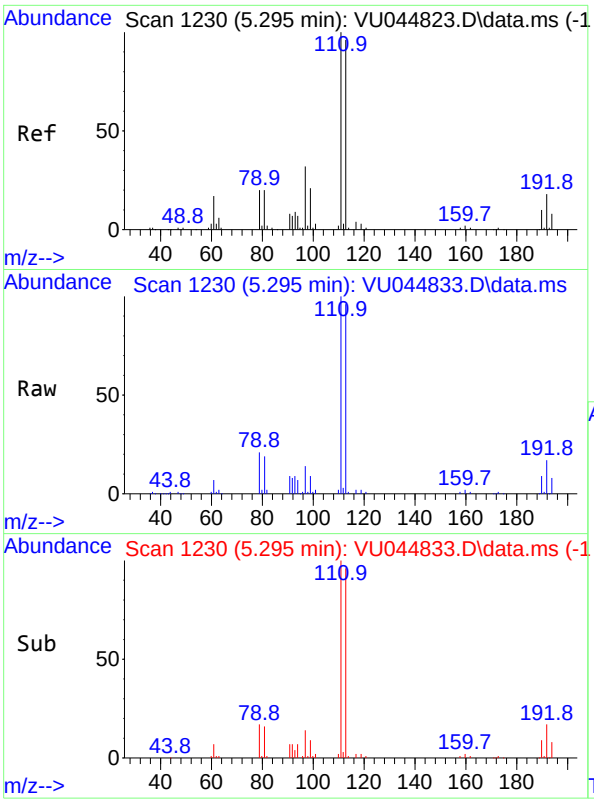
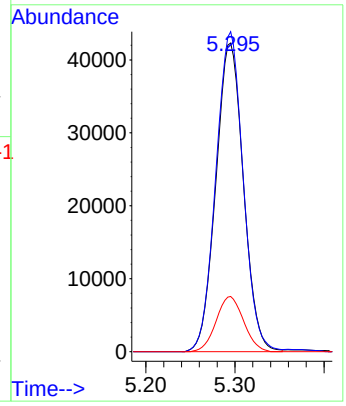
9/27/2021 11:03:02 AM

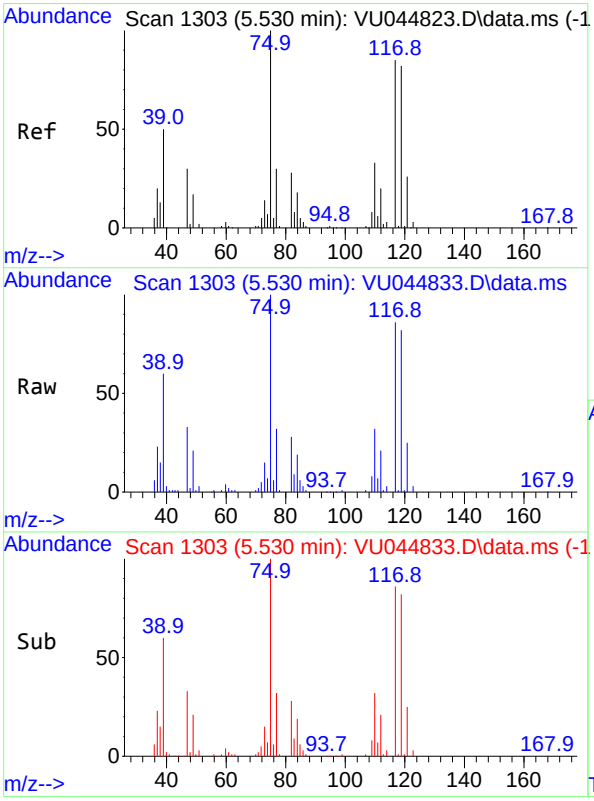


#35
Dibromofluoromethane
Concen: 50.347 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:113 Resp: 91018

Ion	Ratio	Lower	Upper
113	100		
111	102.6	84.1	126.1
192	17.8	14.8	22.2

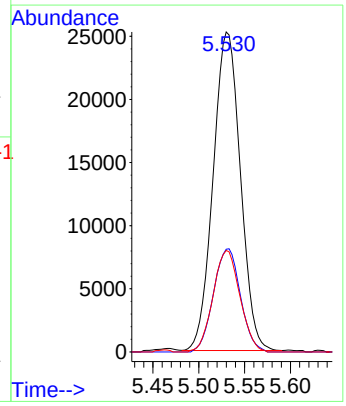




#36
1,1-Dichloropropene
Concen: 18.620 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 75 Resp: 52061

Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.3	48.9
77	31.4	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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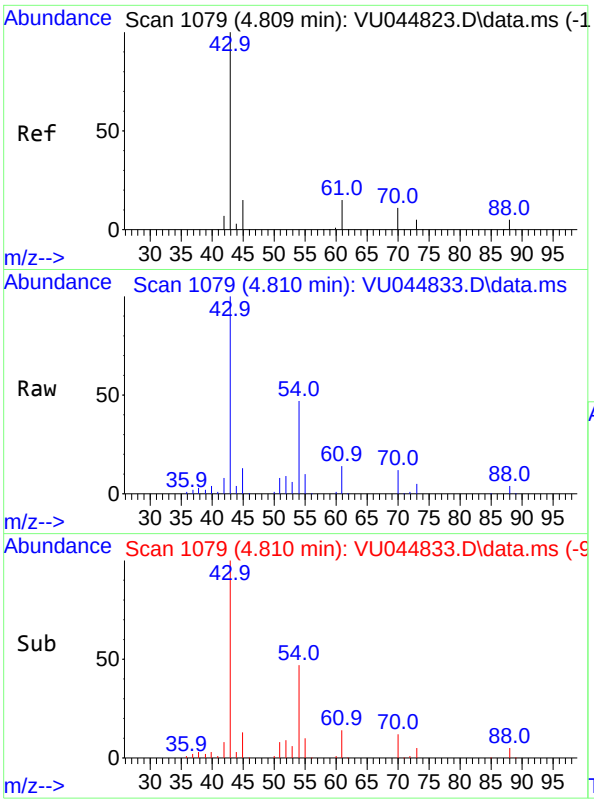
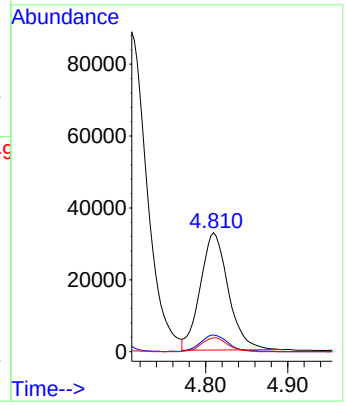
9/27/2021 11:03:02 AM

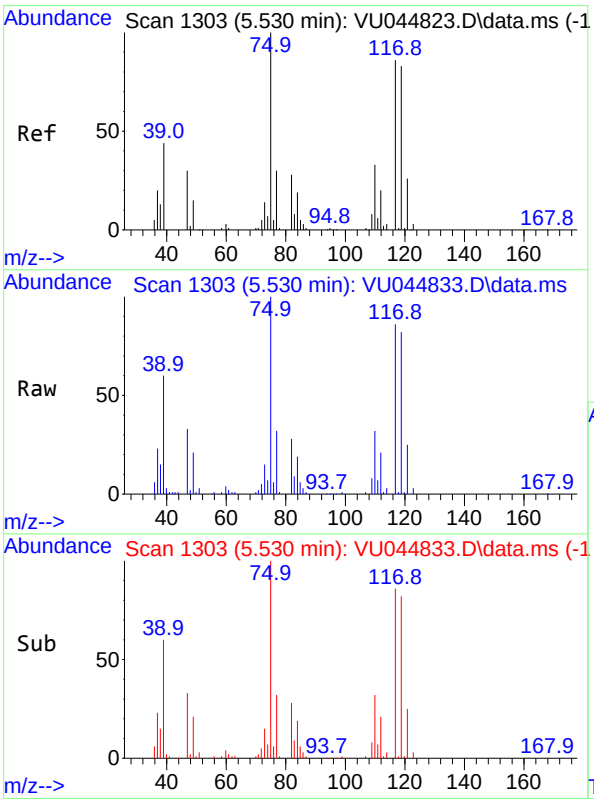


#37
Ethyl Acetate
Concen: 18.911 ug/l
RT: 4.810 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 77583

Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.9	16.3
70	11.1	8.2	12.4

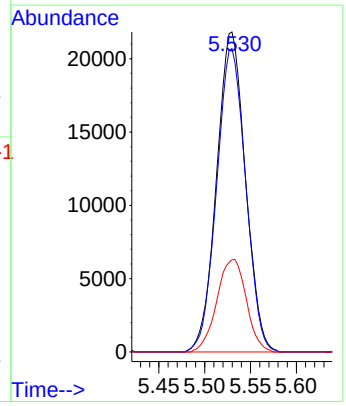




#38
Carbon Tetrachloride
Concen: 19.055 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:117 Resp: 47631

Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.4	116.2
121	28.8	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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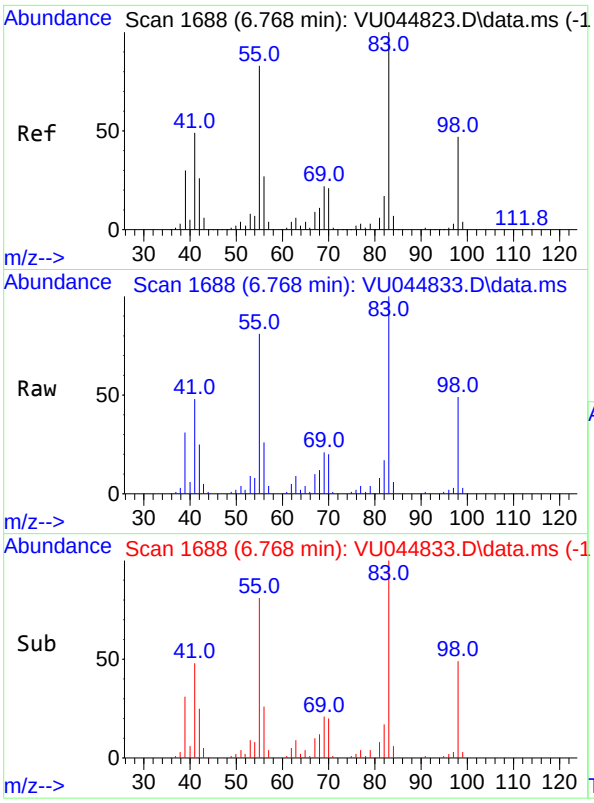
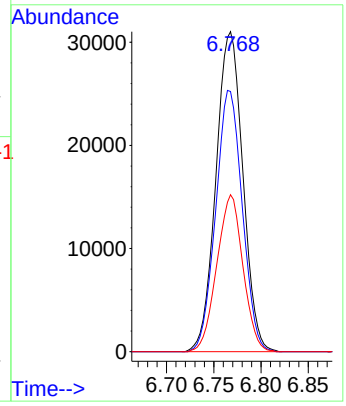
9/27/2021 11:03:02 AM

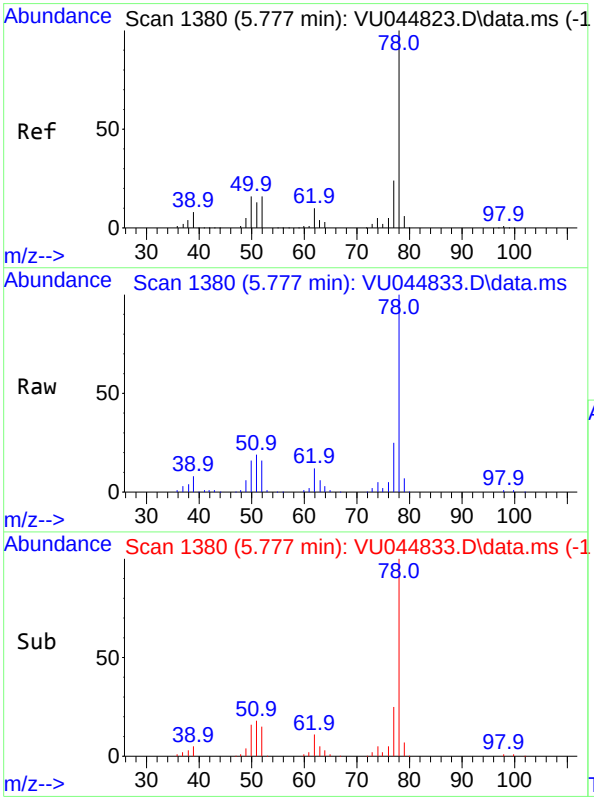


#39
Methylcyclohexane
Concen: 19.423 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 83 Resp: 61422

Ion	Ratio	Lower	Upper
83	100		
55	81.3	66.2	99.4
98	49.0	37.5	56.3

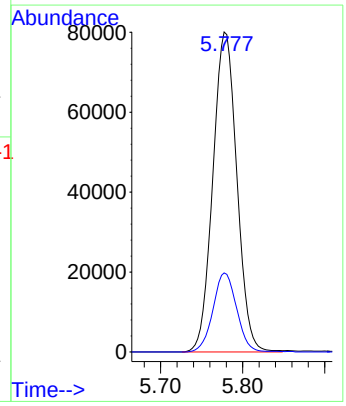




#40
Benzene
Concen: 19.090 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 78 Resp: 162736

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.1	28.7



Instrument :
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ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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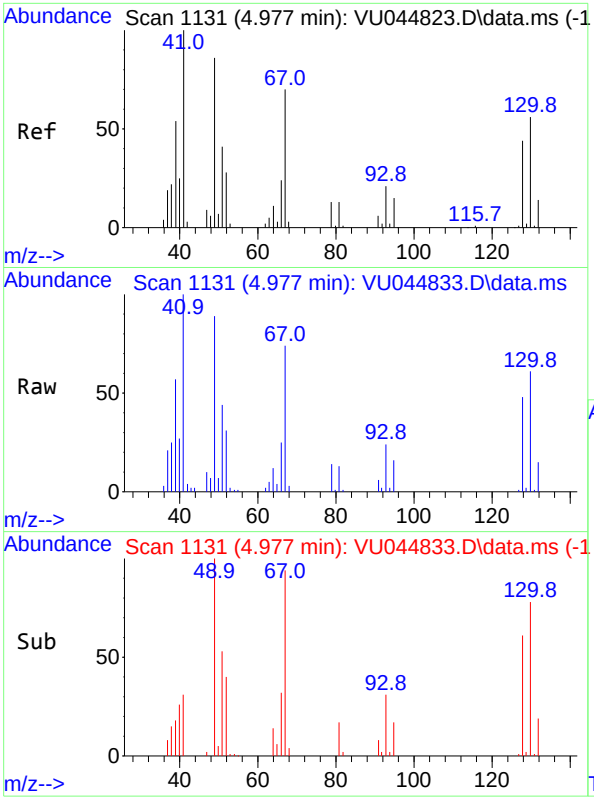
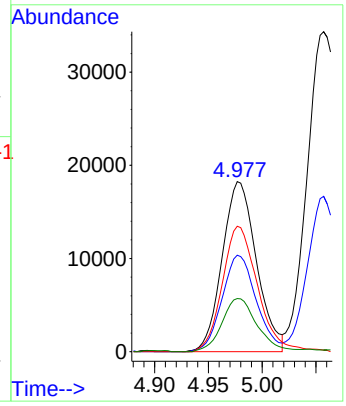
9/27/2021 11:03:02 AM

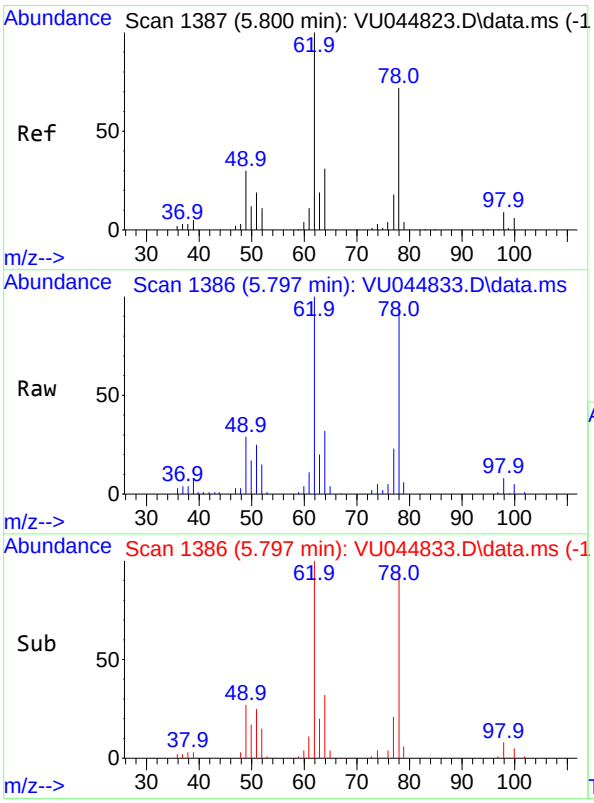


#41
Methacrylonitrile
Concen: 19.743 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 41 Resp: 40431

Ion	Ratio	Lower	Upper
41	100		
39	56.9	44.4	66.6
67	76.4	58.1	87.1
52	32.2	23.8	35.8

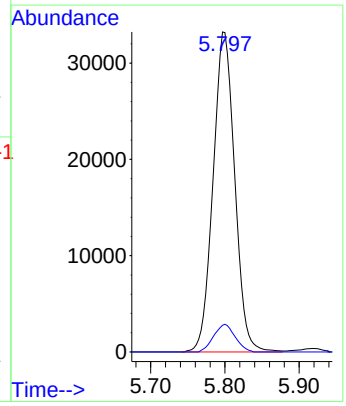




#42
1,2-Dichloroethane
Concen: 20.086 ug/l
RT: 5.797 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 62 Resp: 67363

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.8



Instrument :
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ClientSampleId :
VU0925WBS01

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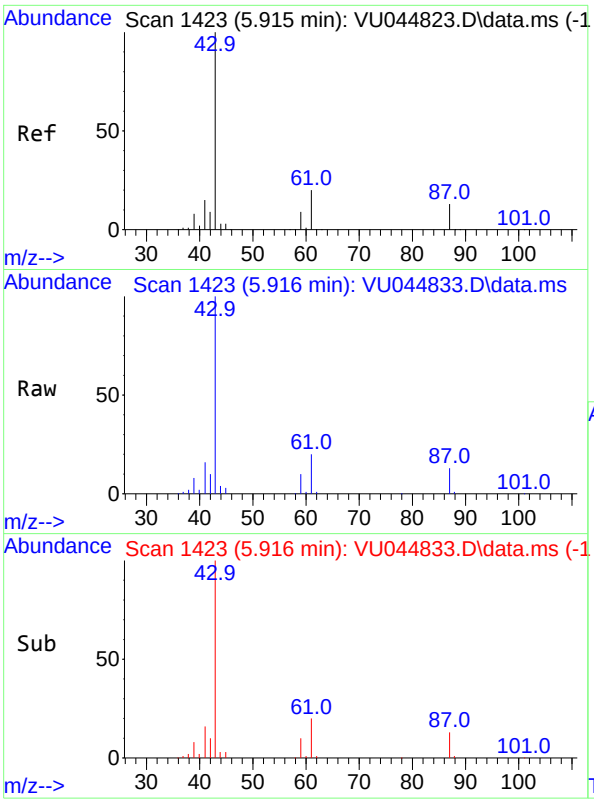
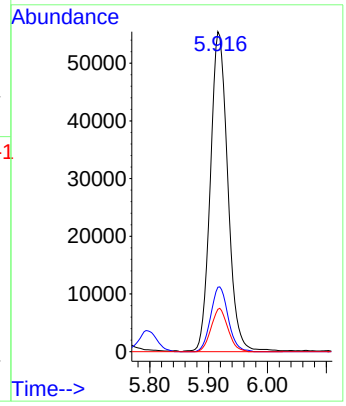
9/27/2021 11:03:02 AM

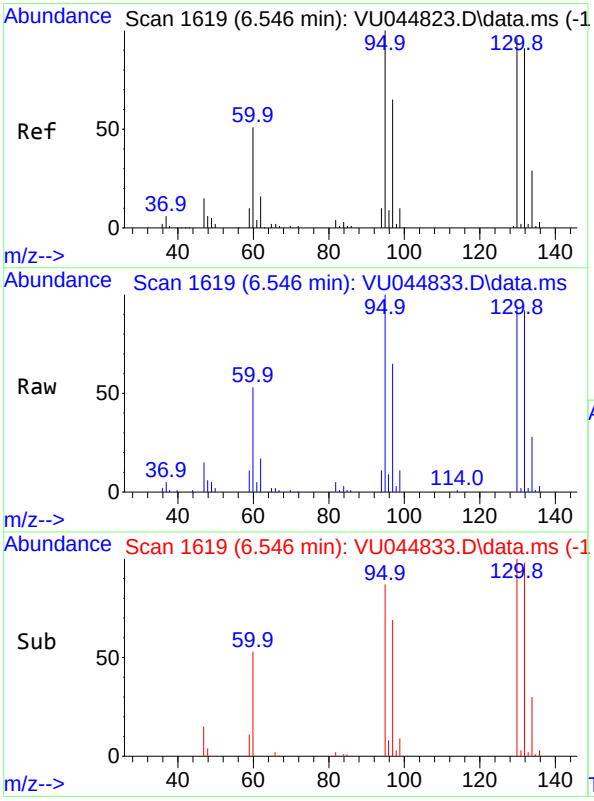


#43
Isopropyl Acetate
Concen: 19.908 ug/l
RT: 5.916 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 114264

Ion	Ratio	Lower	Upper
43	100		
61	20.3	16.1	24.1
87	13.0	10.3	15.5

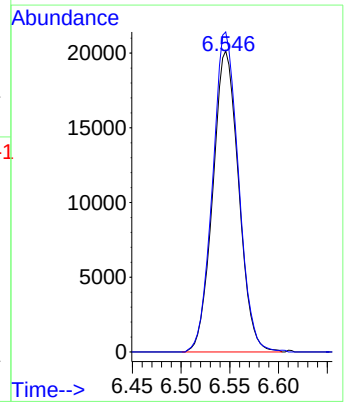




#44
Trichloroethene
Concen: 18.151 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:130 Resp: 37187

Ion	Ratio	Lower	Upper
130	100		
95	106.3	0.0	209.0



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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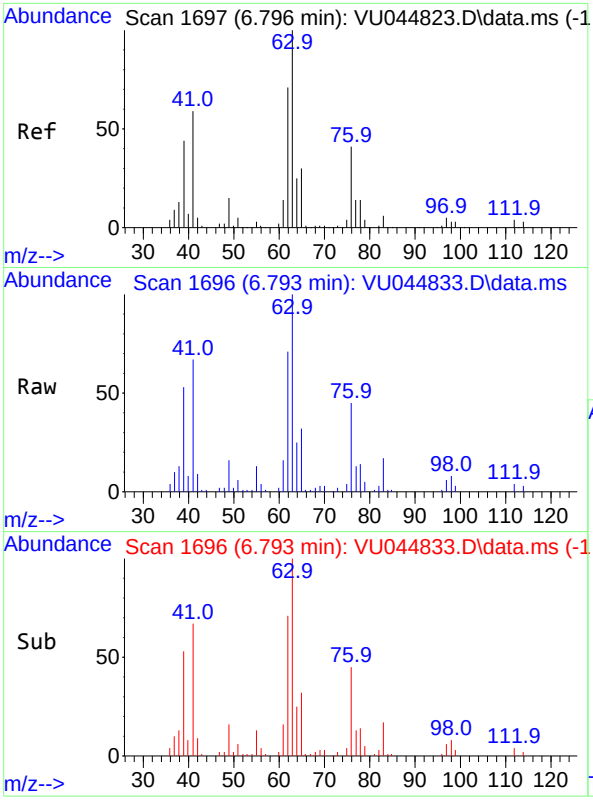
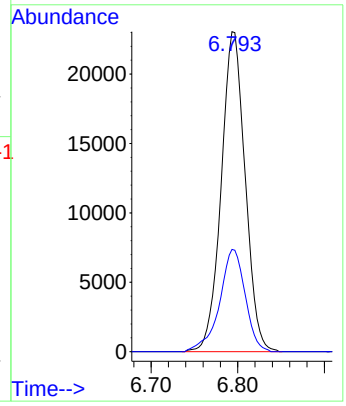
9/27/2021 11:03:02 AM

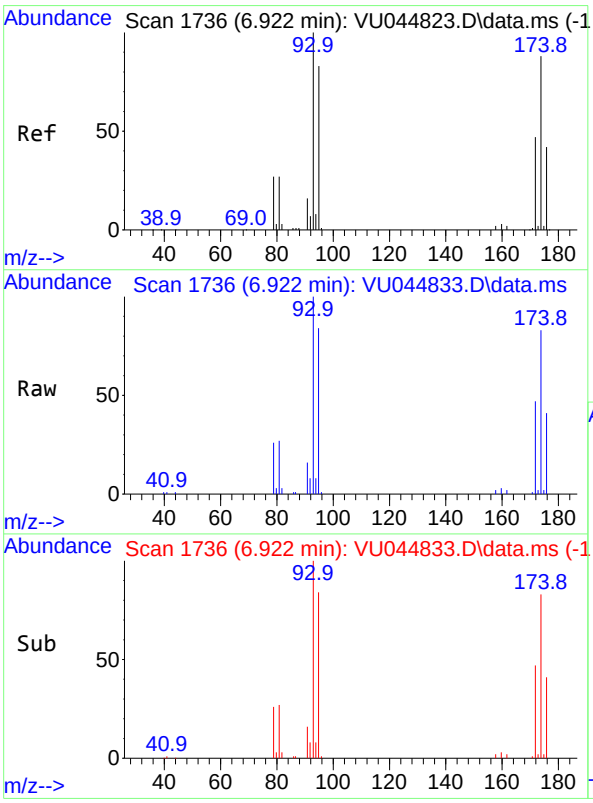


#45
1,2-Dichloropropane
Concen: 19.166 ug/l
RT: 6.793 min Scan# 1696
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 63 Resp: 44218

Ion	Ratio	Lower	Upper
63	100		
65	31.9	23.9	35.9

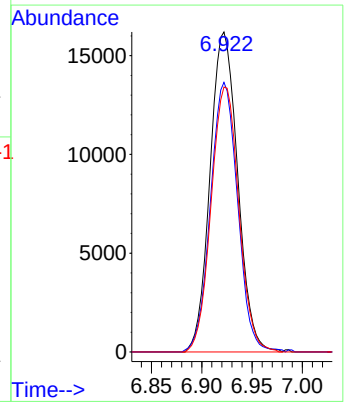




#46
Dibromomethane
Concen: 20.244 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 93 Resp: 30947

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.6	98.4
174	83.1	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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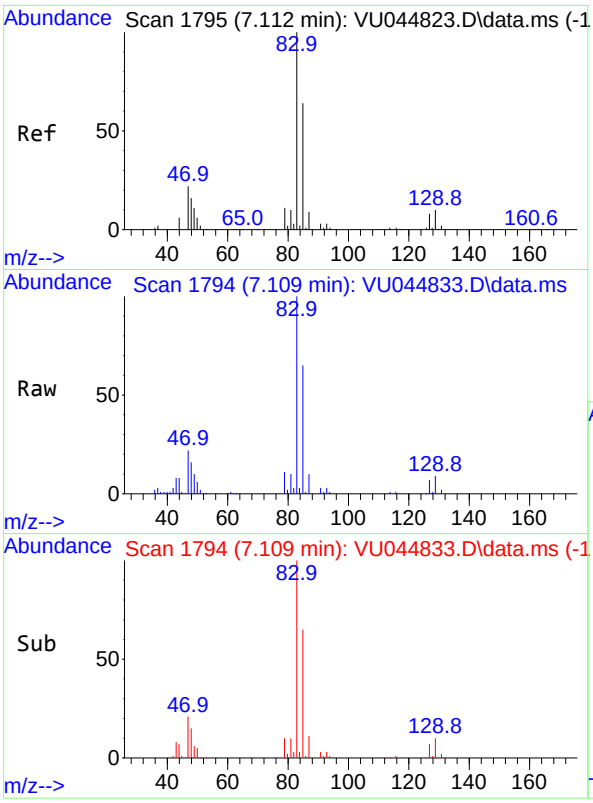
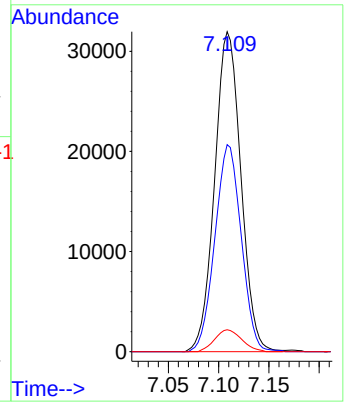
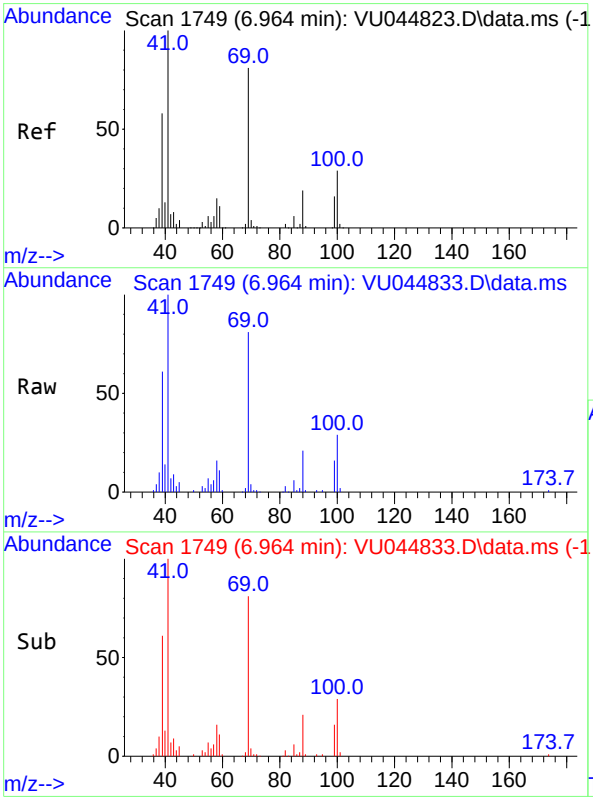


#47
Bromodichloromethane
Concen: 19.257 ug/l
RT: 7.109 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 83 Resp: 58070

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.6	77.4
127	6.9	6.2	9.4

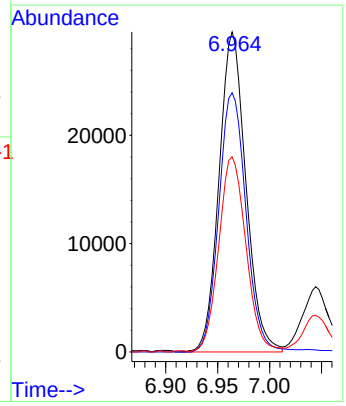




#48
Methyl methacrylate
Concen: 19.581 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 41 Resp: 53049

Ion	Ratio	Lower	Upper
41	100		
69	82.4	65.6	98.4
39	62.2	46.2	69.4



Instrument :
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ClientSampleId :
VU0925WBS01

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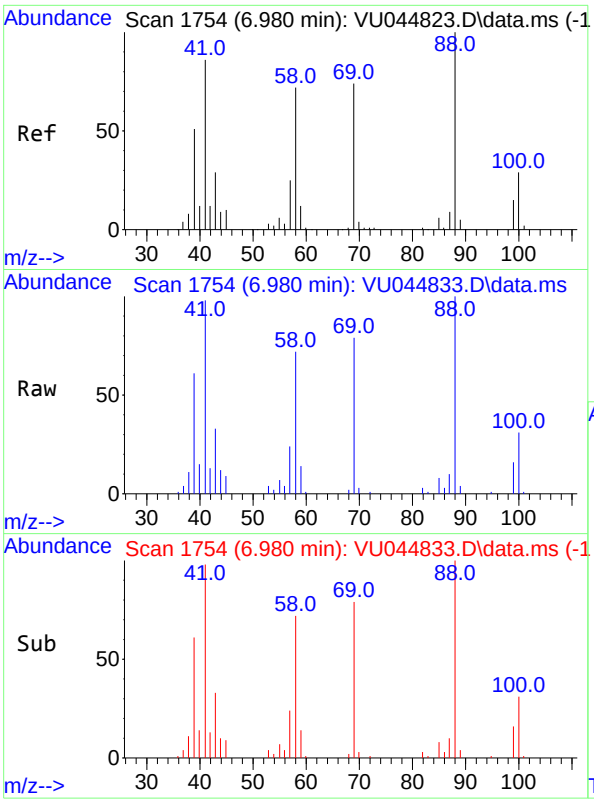
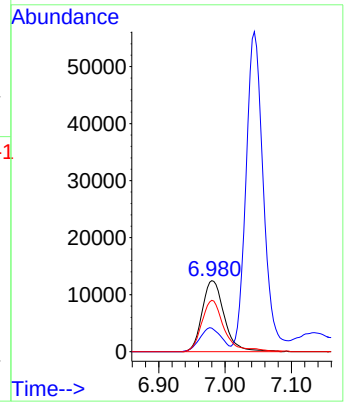
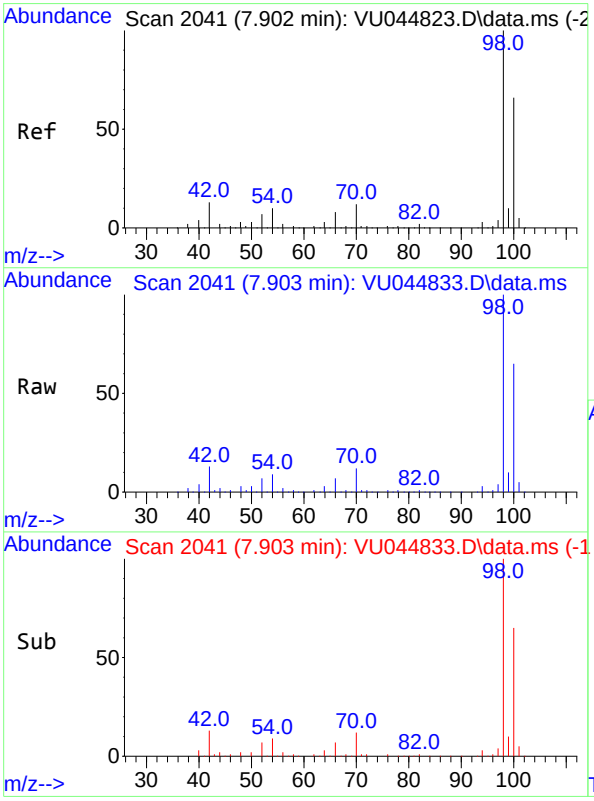


#49
1,4-Dioxane
Concen: 417.659 ug/l
RT: 6.980 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 88 Resp: 28918

Ion	Ratio	Lower	Upper
88	100		
43	33.2	25.8	38.6
58	73.6	61.3	91.9

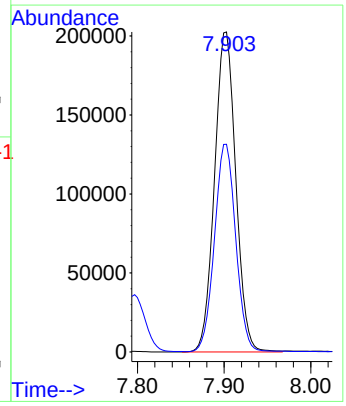




#50
Toluene-d8
Concen: 50.625 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 98 Resp: 345650

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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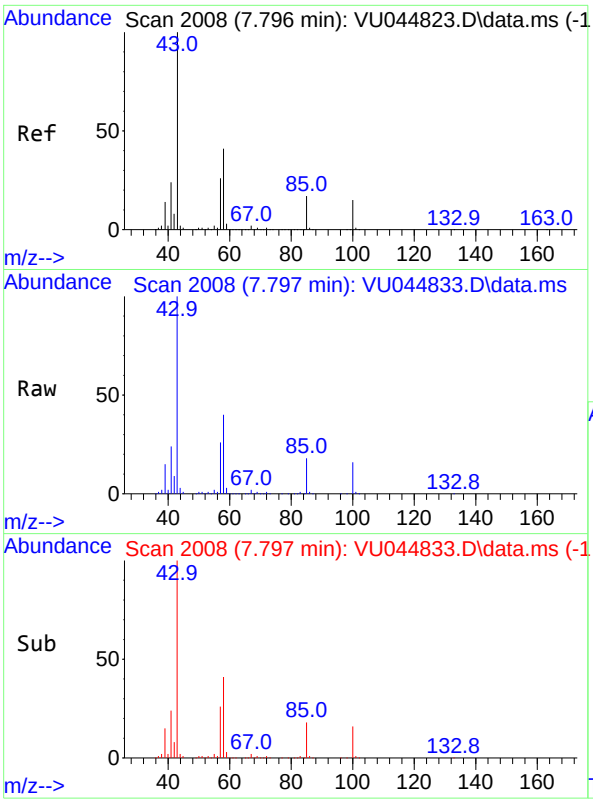
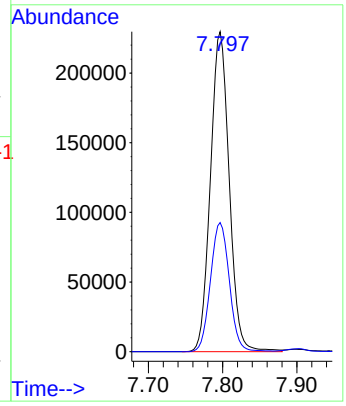
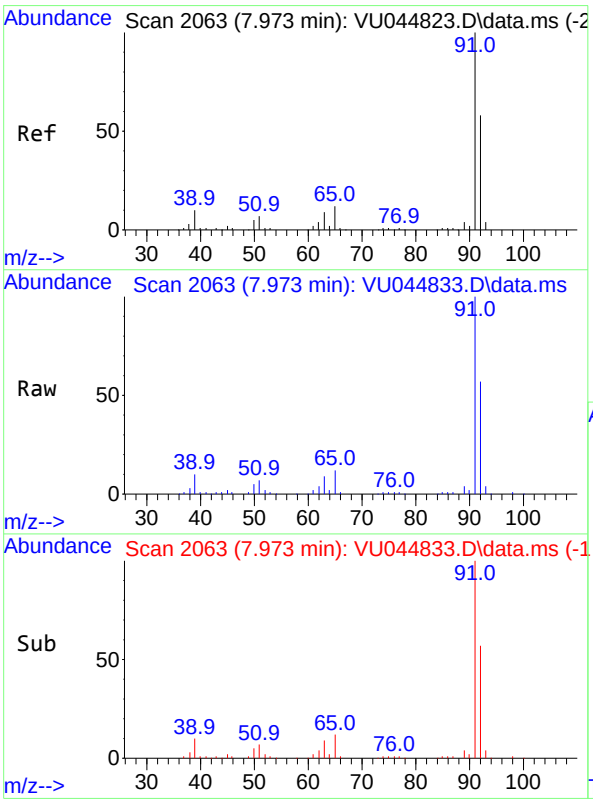


#51
4-Methyl-2-Pentanone
Concen: 98.427 ug/l
RT: 7.797 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 402634

Ion	Ratio	Lower	Upper
43	100		
58	40.7	32.4	48.6

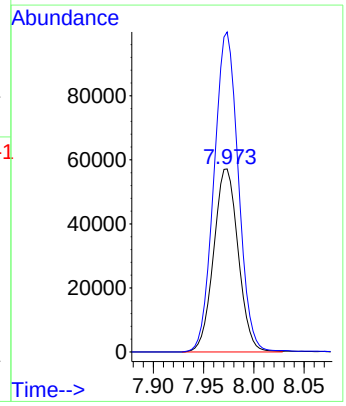




#52
Toluene
Concen: 19.052 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 92 Resp: 97101

Ion	Ratio	Lower	Upper
92	100		
91	173.7	136.9	205.3



Instrument :
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ClientSampleId :
VU0925WBS01

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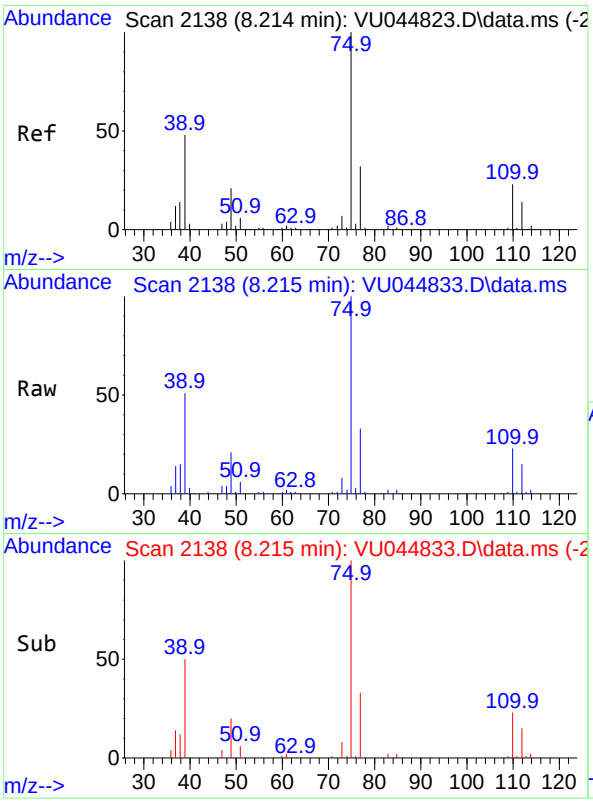
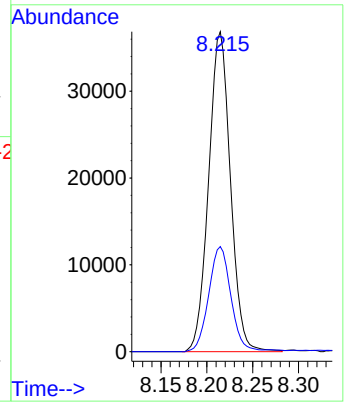
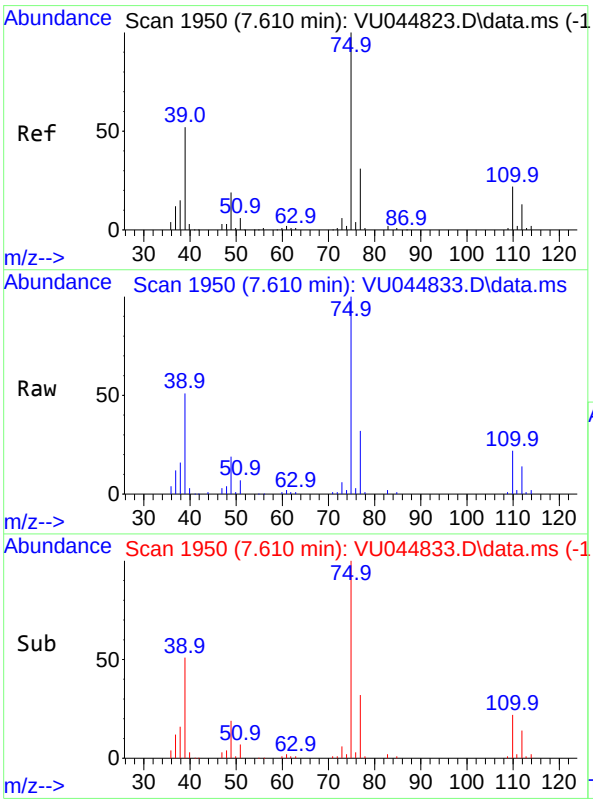


#53
t-1,3-Dichloropropene
Concen: 19.378 ug/l
RT: 8.215 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 75 Resp: 60880

Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.6	38.4

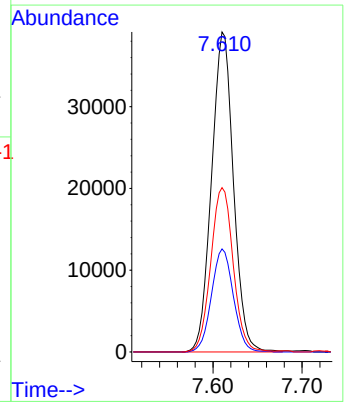




#54
cis-1,3-Dichloropropene
Concen: 19.628 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 75 Resp: 66781

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.0	37.6
39	51.1	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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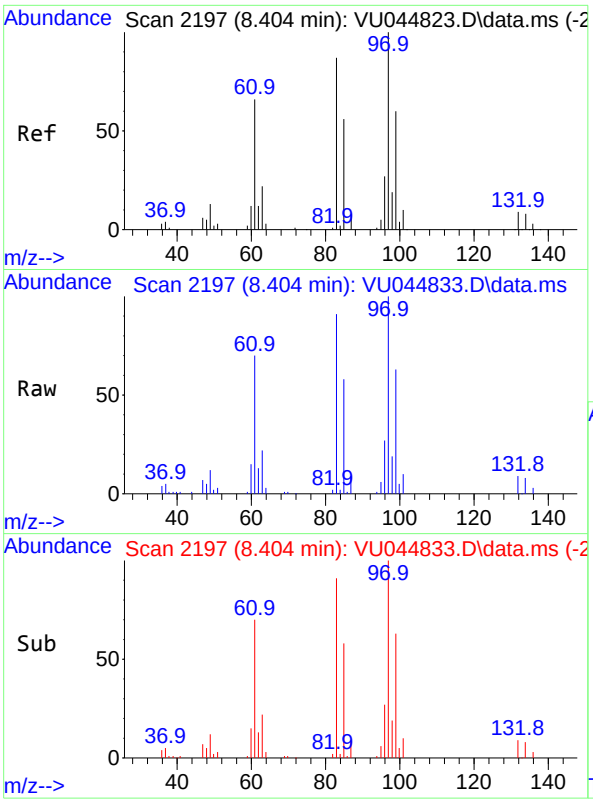
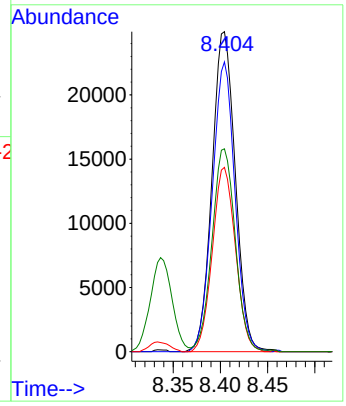
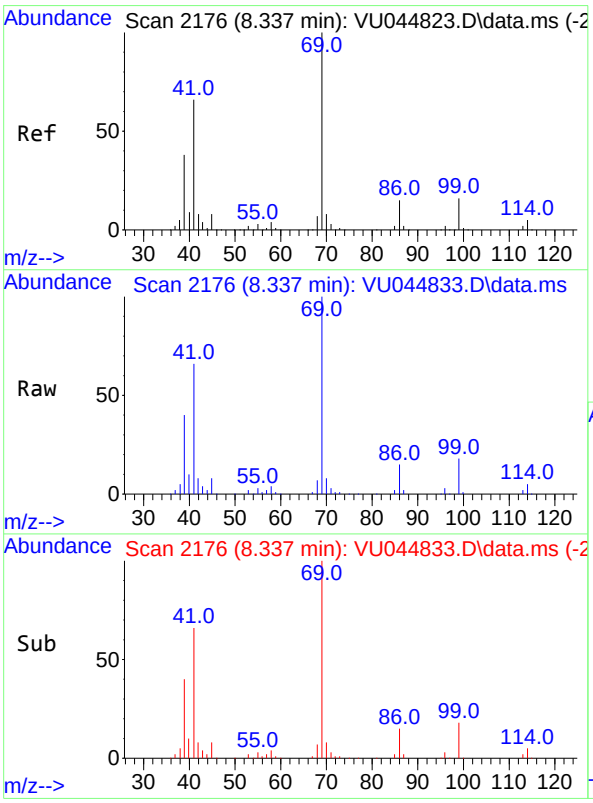


#55
1,1,2-Trichloroethane
Concen: 19.610 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 97 Resp: 42731

Ion	Ratio	Lower	Upper
97	100		
83	90.6	69.7	104.5
85	57.6	44.8	67.2
99	63.4	49.3	73.9

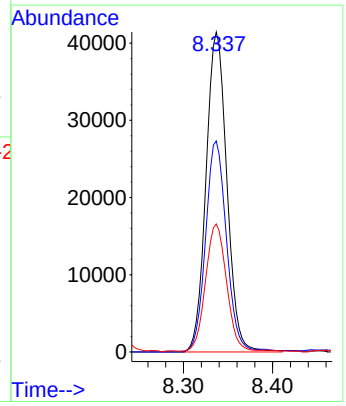




#56
Ethyl methacrylate
Concen: 18.539 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. -0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 69 Resp: 67172

Ion	Ratio	Lower	Upper
69	100		
41	66.0	53.5	80.3
39	39.8	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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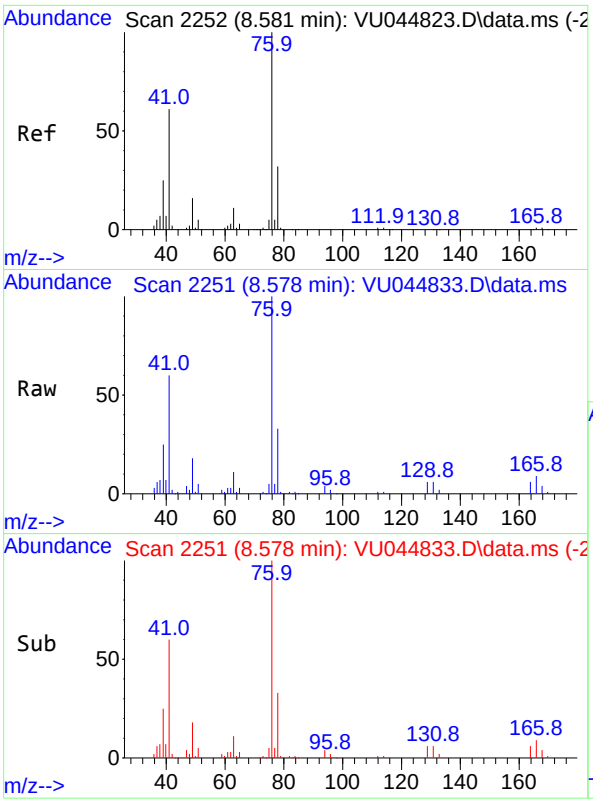
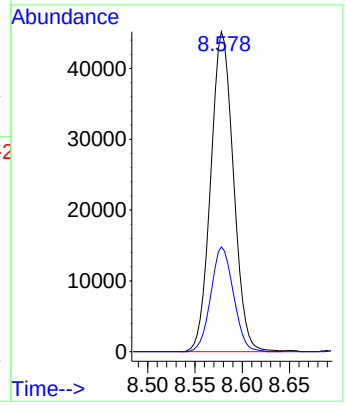
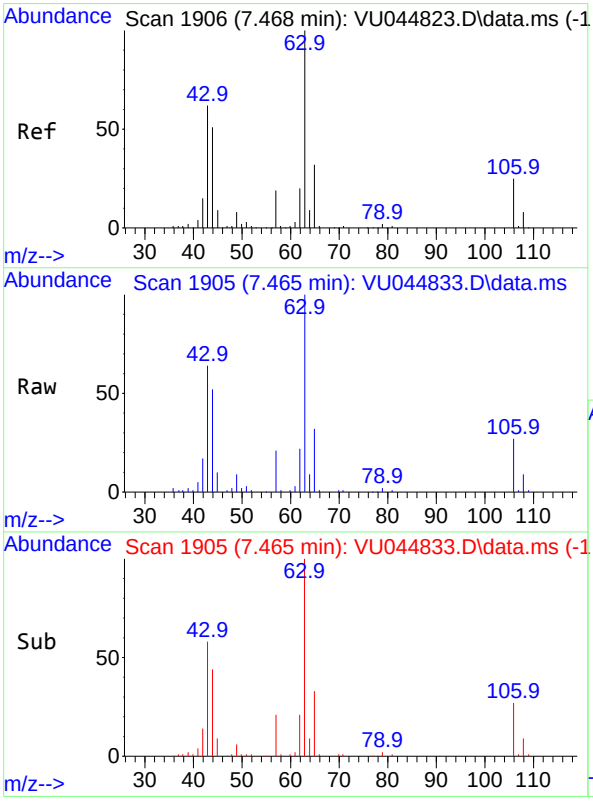


#57
1,3-Dichloropropane
Concen: 19.482 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 76 Resp: 75590

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.7	38.5

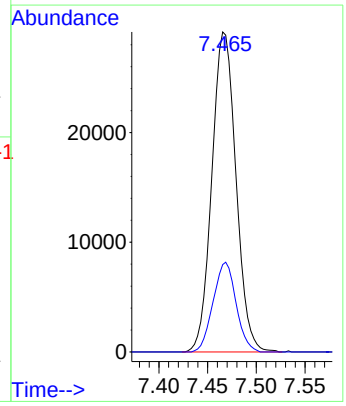




#58
2-Chloroethyl Vinyl ether
Concen: 71.981 ug/l
RT: 7.465 min Scan# 1905
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 63 Resp: 50141

Ion	Ratio	Lower	Upper
63	100		
106	26.7	20.5	30.7



Instrument :
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ClientSampleId :
VU0925WBS01

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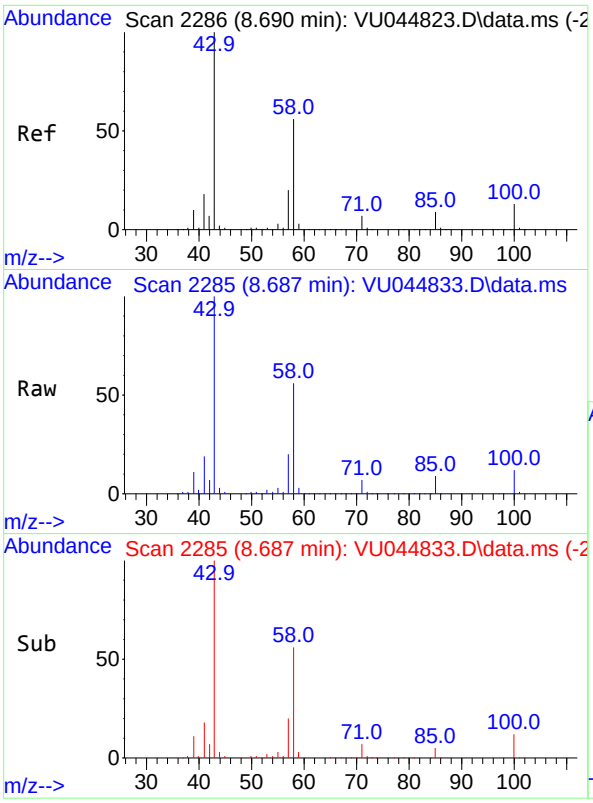
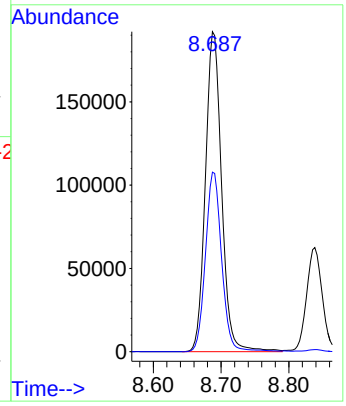
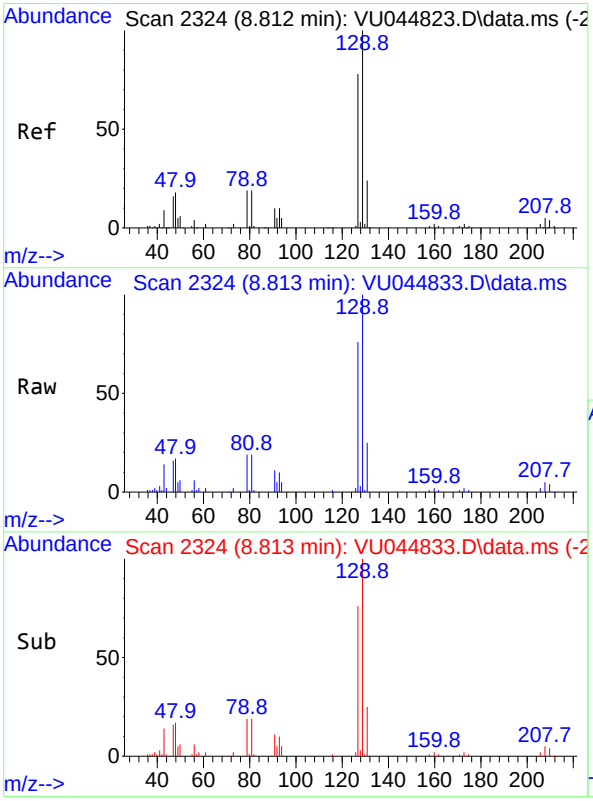


#59
2-Hexanone
Concen: 97.125 ug/l
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 318915

Ion	Ratio	Lower	Upper
43	100		
58	56.0	28.0	84.0

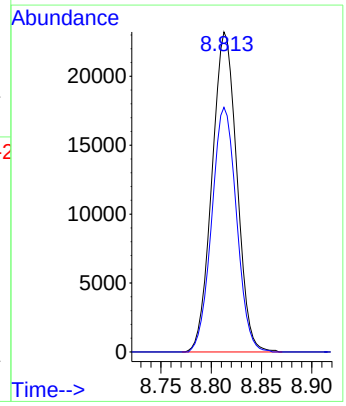




#60
Dibromochloromethane
Concen: 19.115 ug/l
RT: 8.813 min Scan# 2324
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:129 Resp: 39887

Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.0	117.0



Instrument :
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ClientSampleId :
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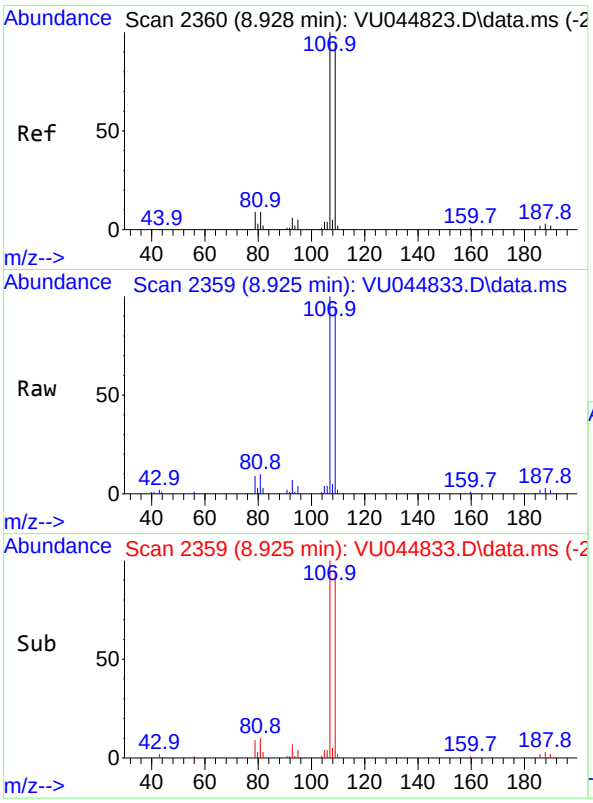
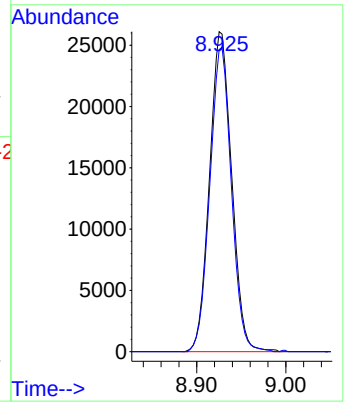
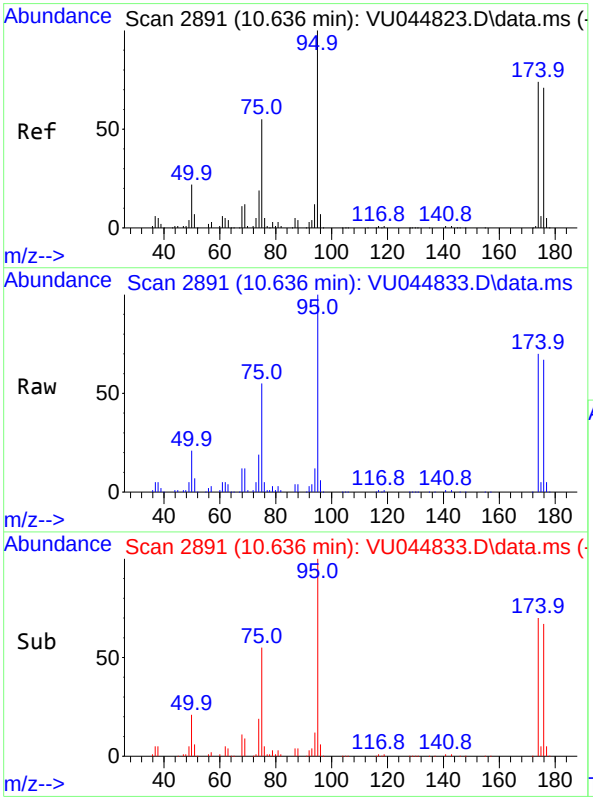


#61
1,2-Dibromoethane
Concen: 19.677 ug/l
RT: 8.925 min Scan# 2359
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:107 Resp: 45020

Ion	Ratio	Lower	Upper
107	100		
109	92.6	74.8	112.2

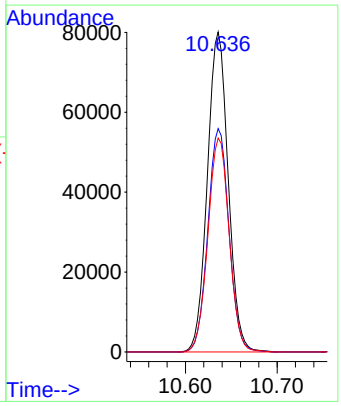




#62
4-Bromofluorobenzene
Concen: 49.934 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 95 Resp: 126631

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	146.6
176	68.2	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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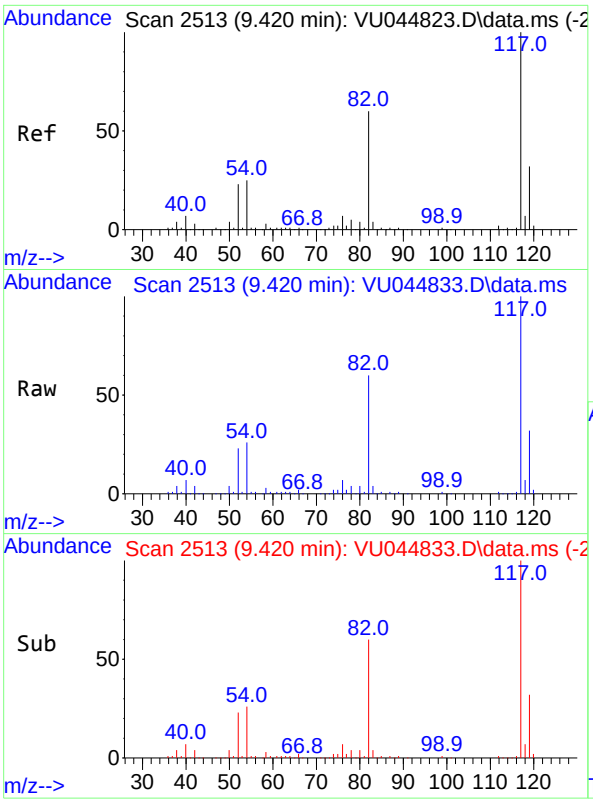
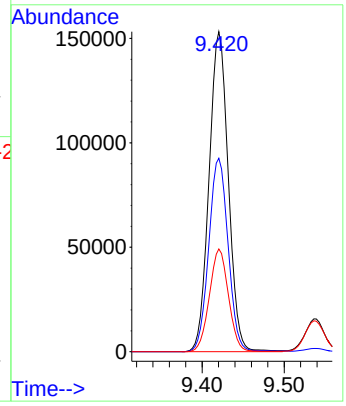
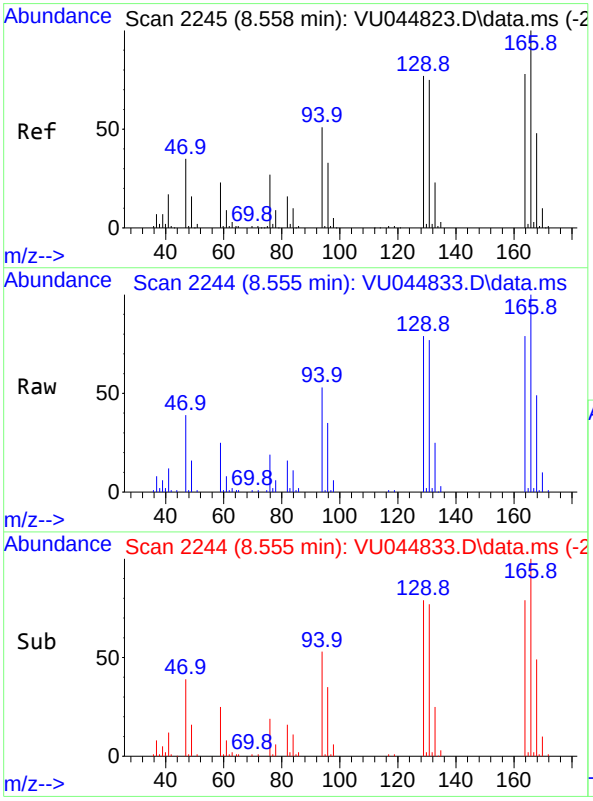


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:117 Resp: 250123

Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.8	71.8
119	32.1	25.8	38.6

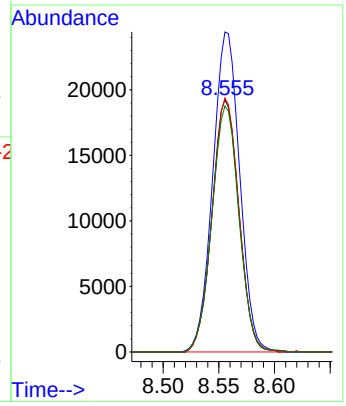




#64
Tetrachloroethene
Concen: 19.092 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:164 Resp: 32368

Ion	Ratio	Lower	Upper
164	100		
166	126.8	102.8	154.2
129	100.6	79.4	119.2
131	97.4	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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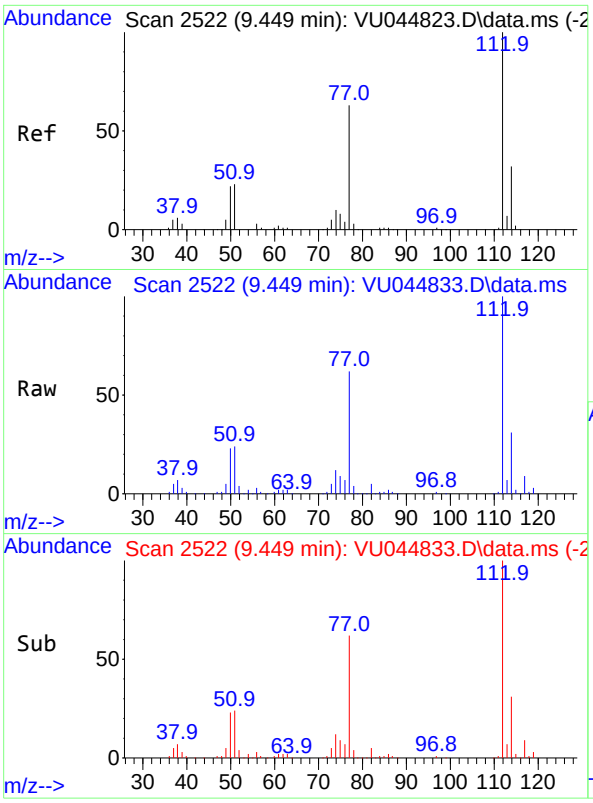
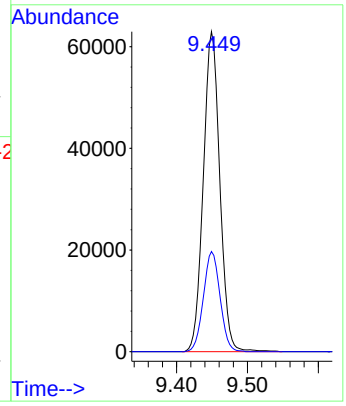
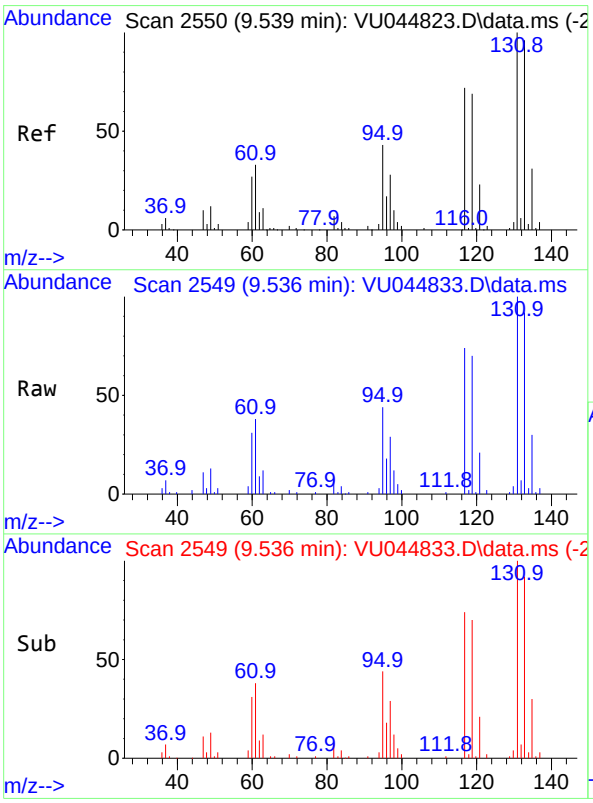


#65
Chlorobenzene
Concen: 19.605 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:112 Resp: 101799

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.9	38.9

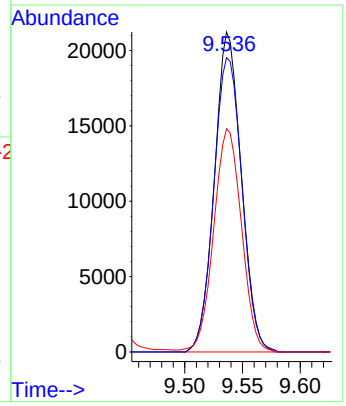




#66
1,1,1,2-Tetrachloroethane
Concen: 18.615 ug/l
RT: 9.536 min Scan# 2549
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:131 Resp: 34475

Ion	Ratio	Lower	Upper
131	100		
133	96.2	48.1	144.3
119	72.0	34.1	102.3



Instrument :
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ClientSampleId :
VU0925WBS01

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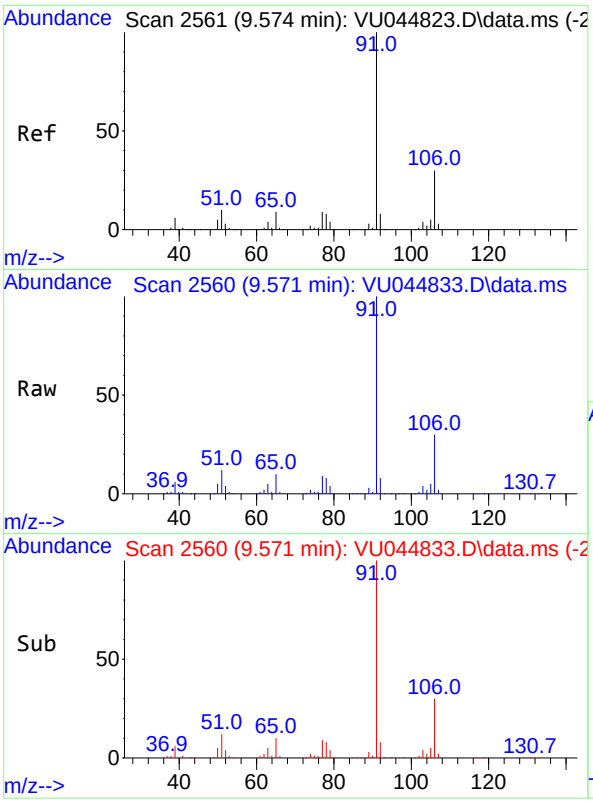
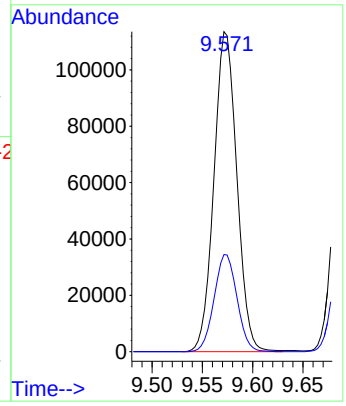
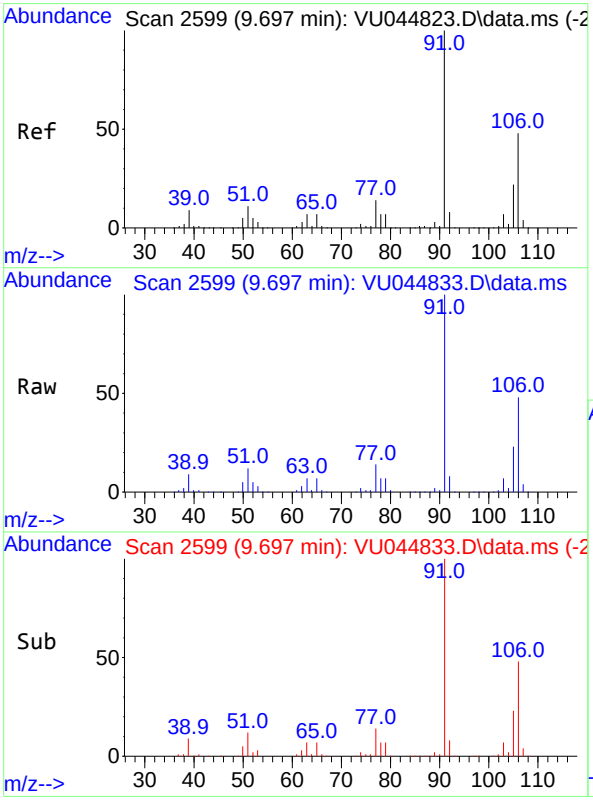


#67
Ethyl Benzene
Concen: 19.411 ug/l
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 91 Resp: 179898

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

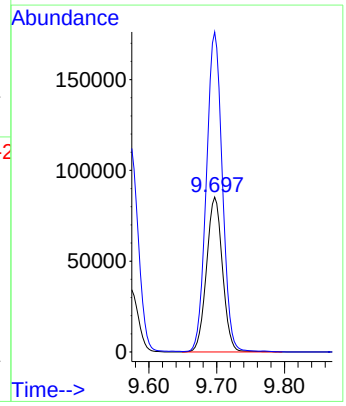




#68
m/p-Xylenes
Concen: 39.417 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:106 Resp: 139723

Ion	Ratio	Lower	Upper
106	100		
91	204.7	164.2	246.2



Instrument :
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ClientSampleId :
VU0925WBS01

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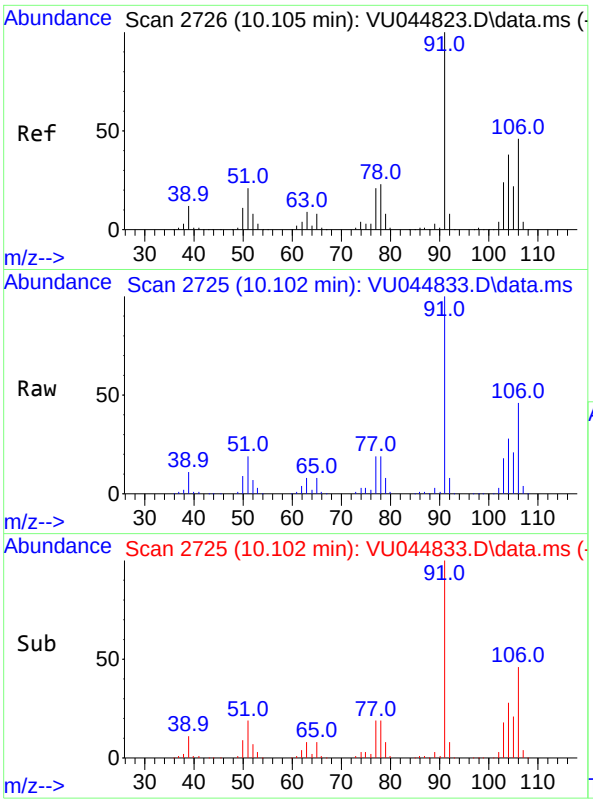
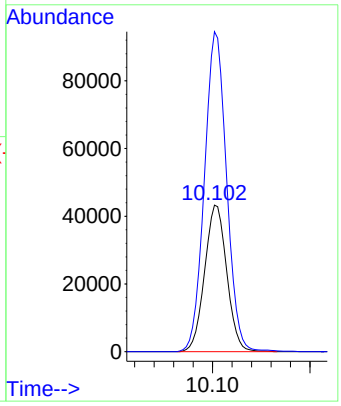
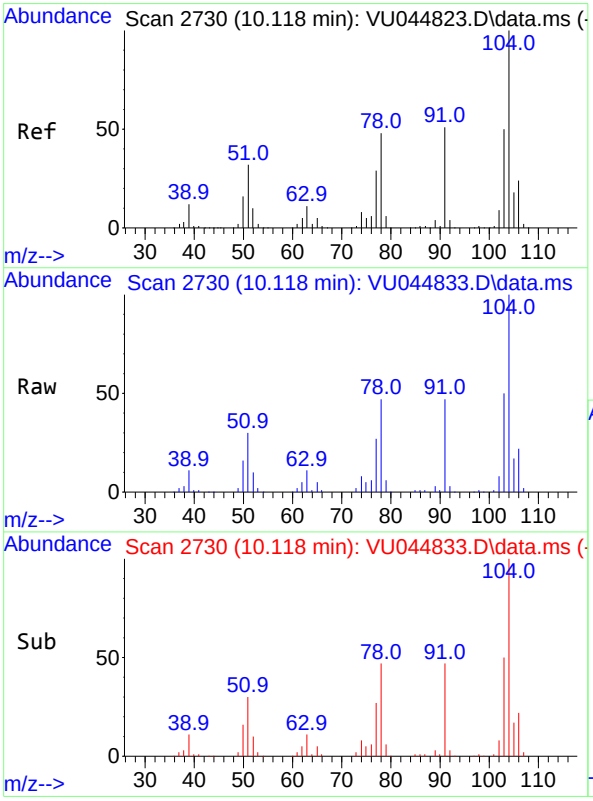


#69
o-Xylene
Concen: 19.897 ug/l
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:106 Resp: 68199

Ion	Ratio	Lower	Upper
106	100		
91	218.6	108.9	326.7

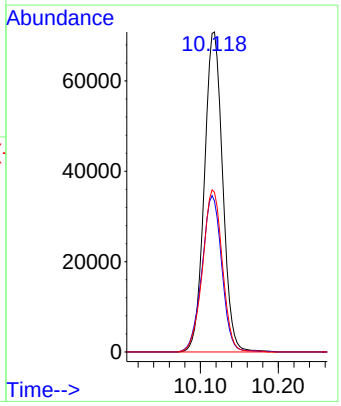




#70
Styrene
Concen: 18.709 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:104 Resp: 115718

Ion	Ratio	Lower	Upper
104	100		
78	53.0	41.4	62.0
103	54.7	43.5	65.3



Instrument :
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ClientSampleId :
VU0925WBS01

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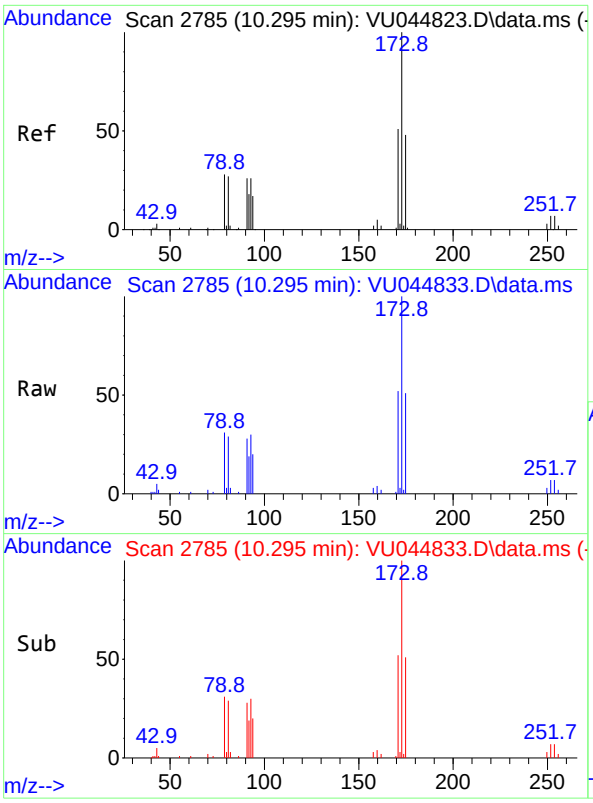
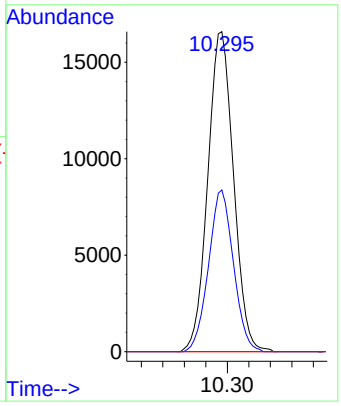
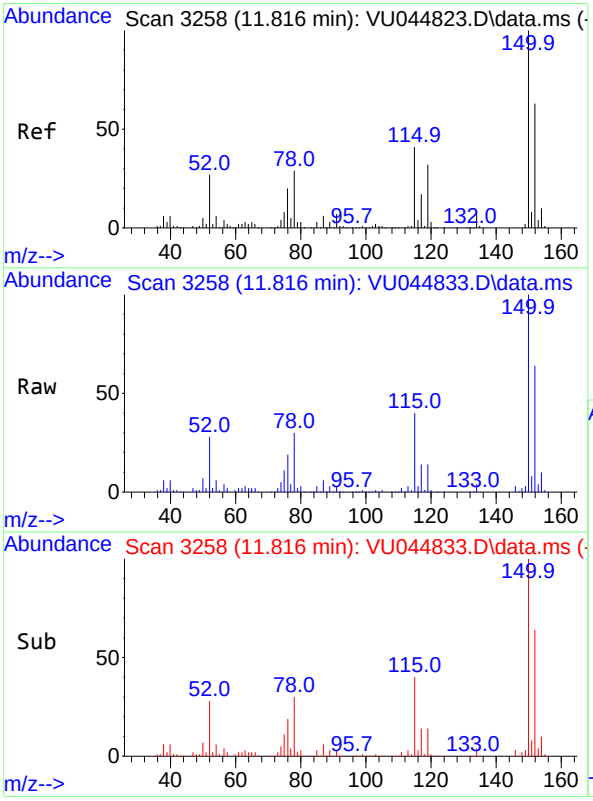


#71
Bromoform
Concen: 17.962 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:173 Resp: 27526

Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.3	73.0
254	0.0	0.0	0.0

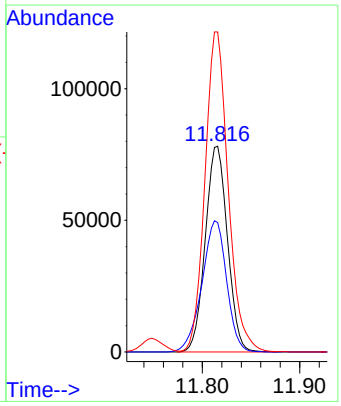




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:152 Resp: 123767

Ion	Ratio	Lower	Upper
152	100		
115	70.9	43.5	130.7
150	162.7	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

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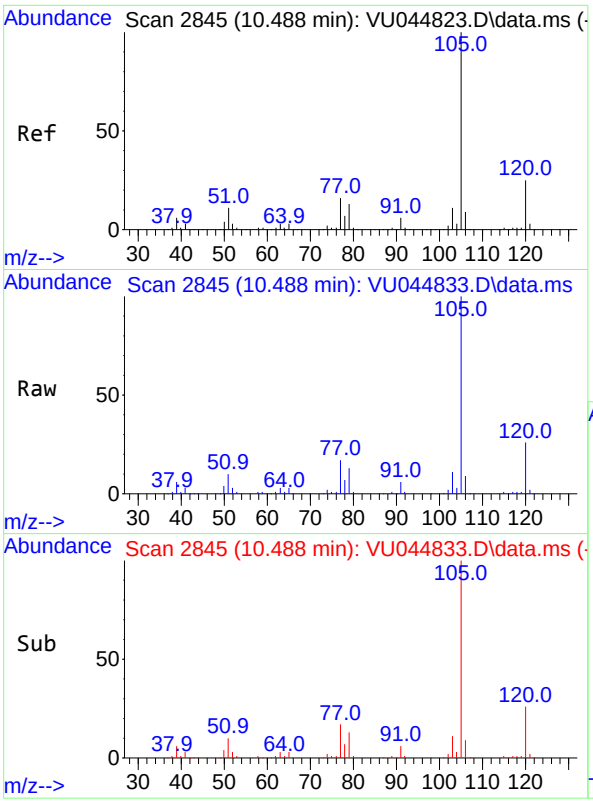
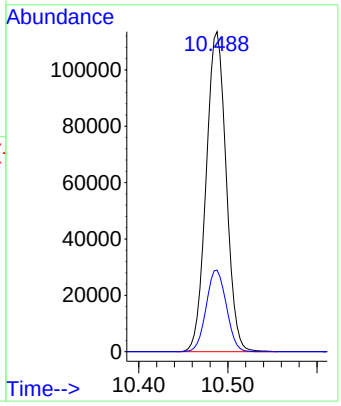
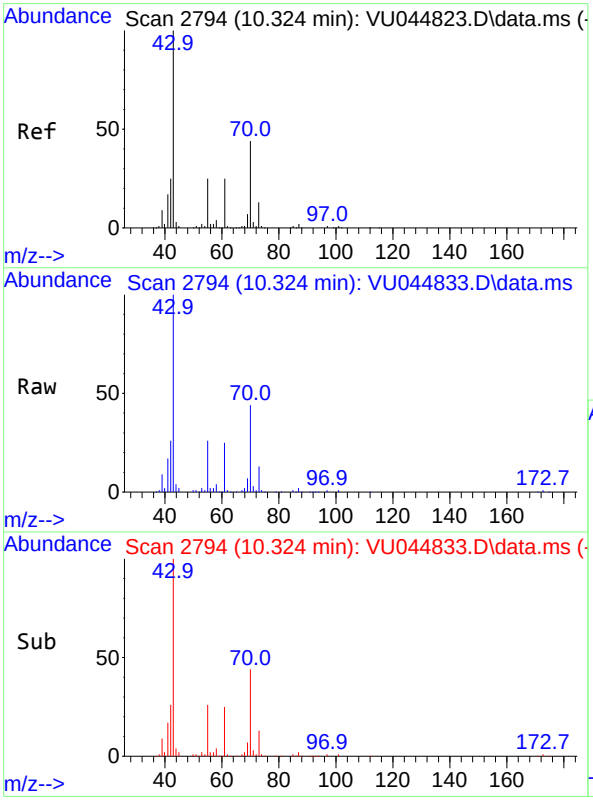


#73
Isopropylbenzene
Concen: 20.154 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:105 Resp: 177039

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.3

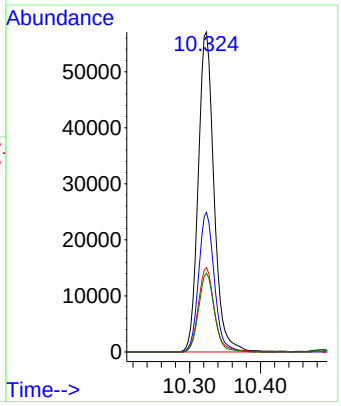




#74
N-amyl acetate
Concen: 19.745 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 43 Resp: 88406

Ion	Ratio	Lower	Upper
43	100		
70	43.5	35.1	52.7
55	26.9	20.5	30.7
61	24.5	19.6	29.4



Instrument :
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ClientSampleId :
VU0925WBS01

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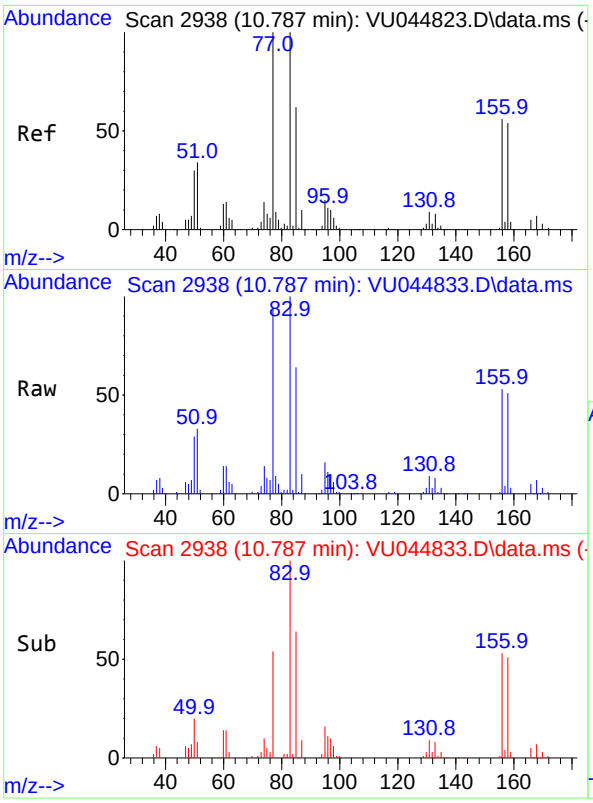
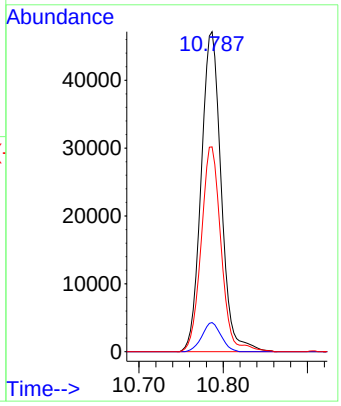
9/27/2021 11:03:02 AM

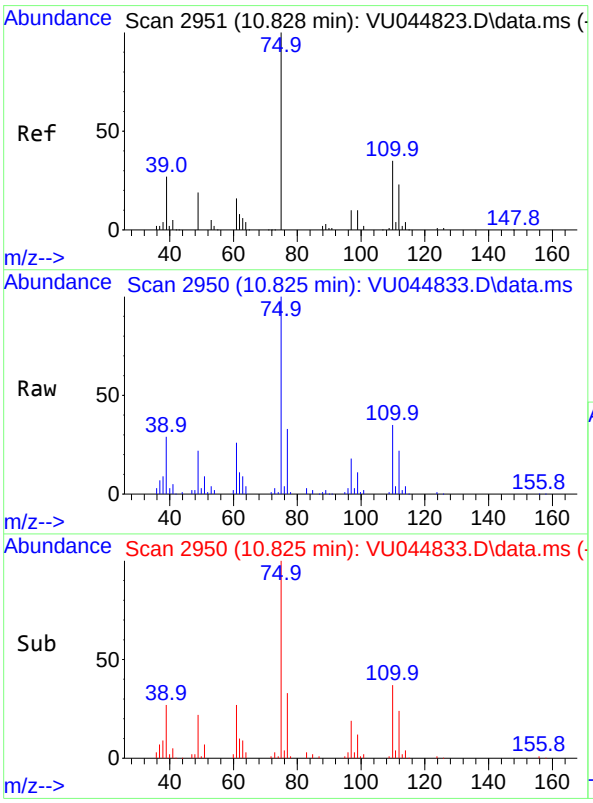


#75
1,1,2,2-Tetrachloroethane
Concen: 19.462 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 83 Resp: 77886

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.3	13.1
85	63.8	31.9	95.5

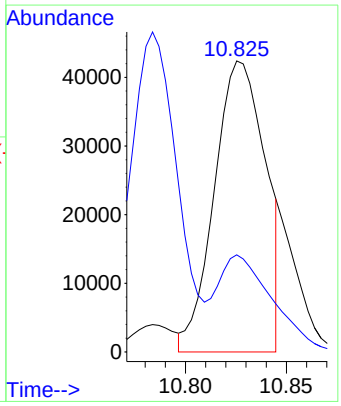




#76
1,2,3-Trichloropropane
Concen: 19.837 ug/l m
RT: 10.825 min Scan# 2950
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 75 Resp: 74347

Ion	Ratio	Lower	Upper
75	100		
77	36.6	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
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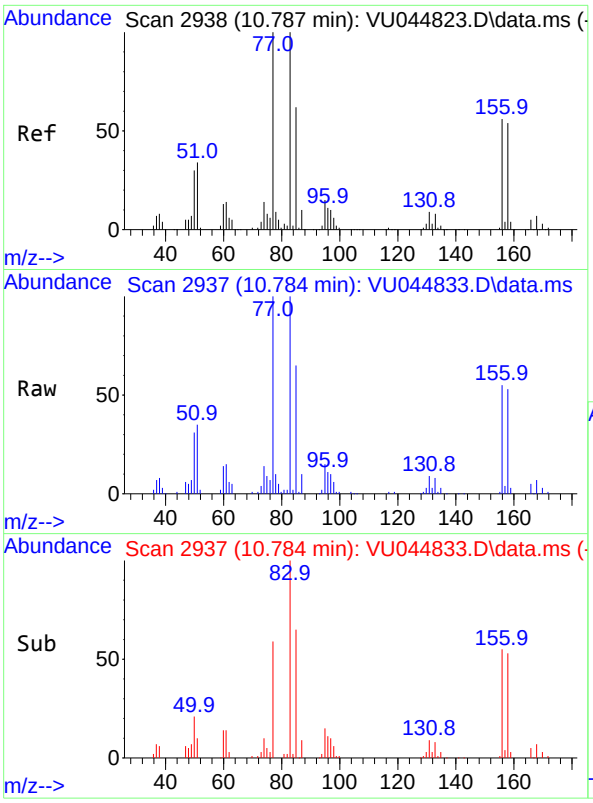
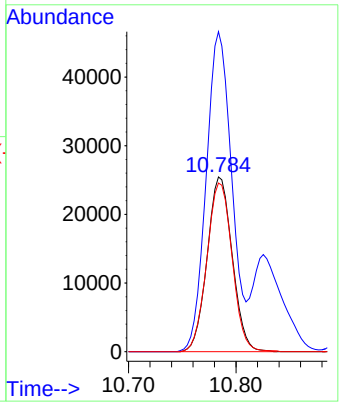
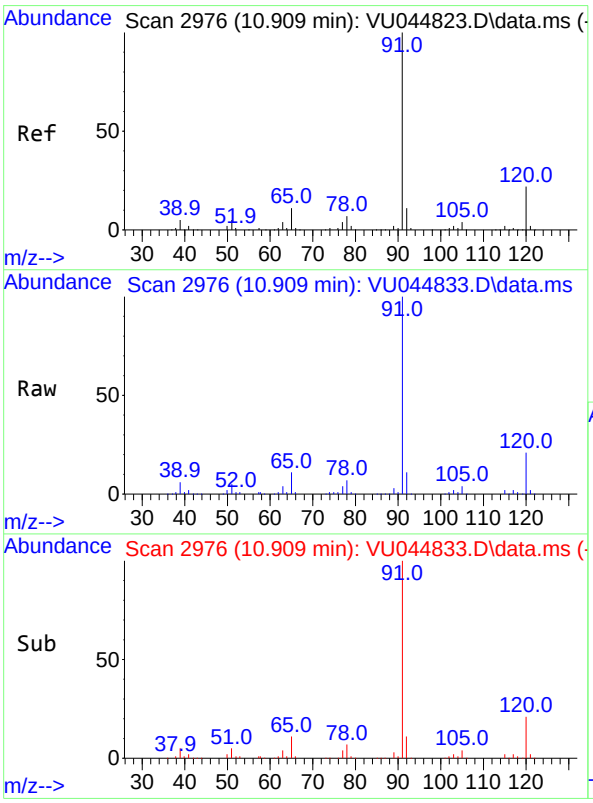


#77
Bromobenzene
Concen: 19.640 ug/l
RT: 10.784 min Scan# 2937
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:156 Resp: 41219

Ion	Ratio	Lower	Upper
156	100		
77	185.9	91.1	273.4
158	97.4	48.2	144.6

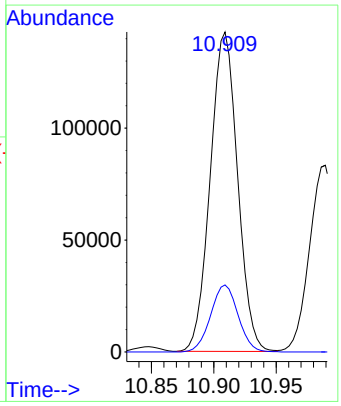




#78
n-propylbenzene
Concen: 20.466 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 91 Resp: 217840

Ion	Ratio	Lower	Upper
91	100		
120	21.1	10.8	32.4



Instrument :
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ClientSampleId :
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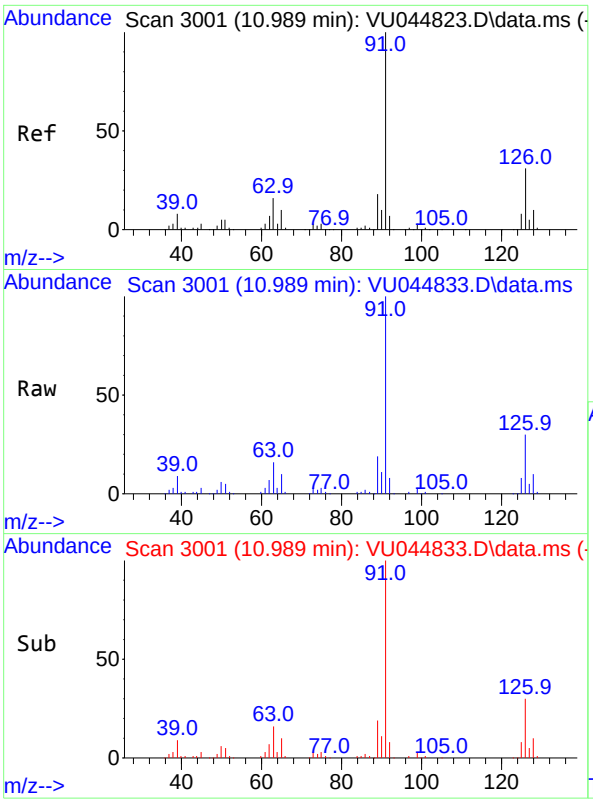
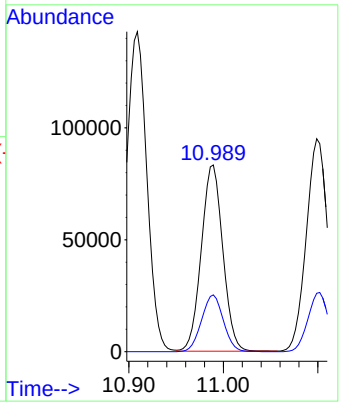
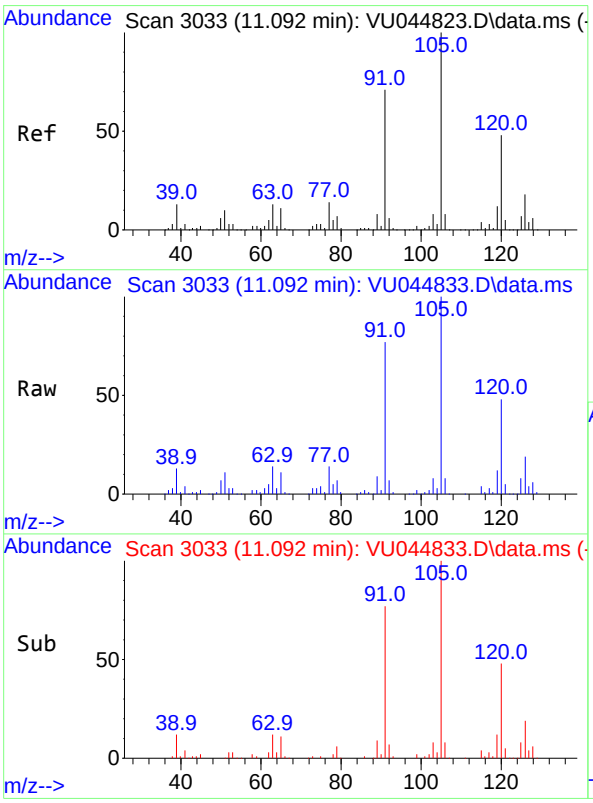


#79
2-Chlorotoluene
Concen: 20.263 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 91 Resp: 131450

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.7	47.0

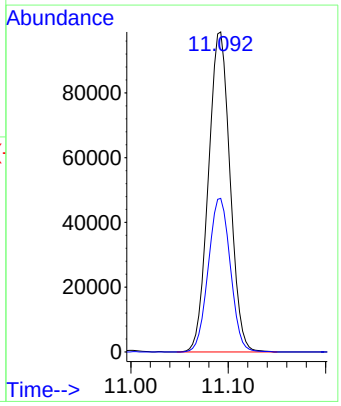




#80
1,3,5-Trimethylbenzene
Concen: 20.454 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:105 Resp: 152195

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.1	72.2



Instrument :
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ClientSampleId :
VU0925WBS01

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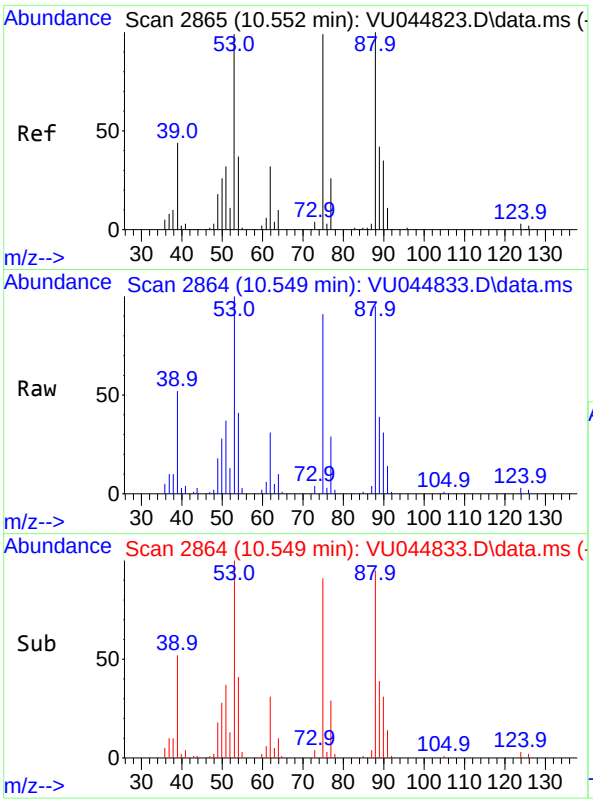
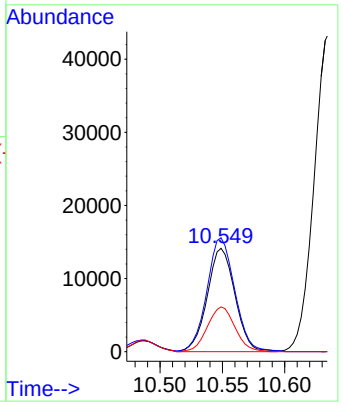
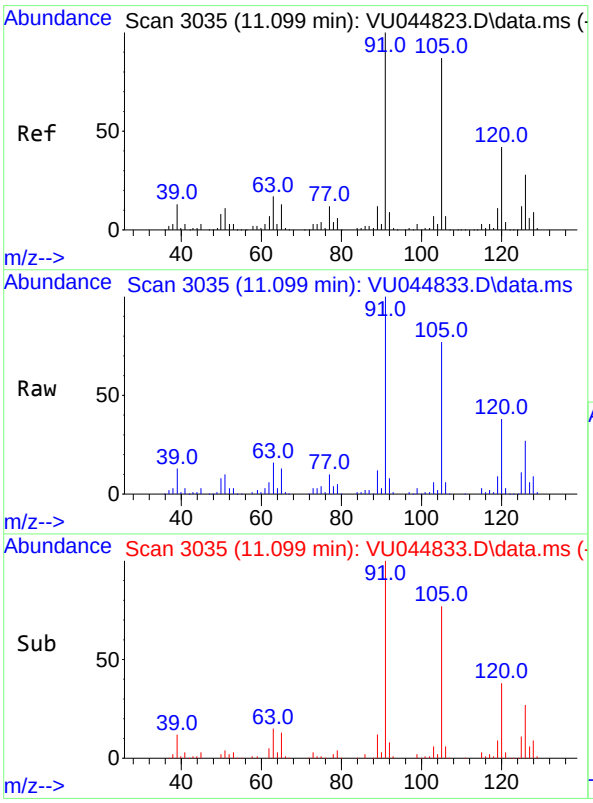


#81
trans-1,4-Dichloro-2-butene
Concen: 18.965 ug/l
RT: 10.549 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 75 Resp: 21942

Ion	Ratio	Lower	Upper
75	100		
53	110.5	82.0	123.0
89	43.0	34.2	51.4

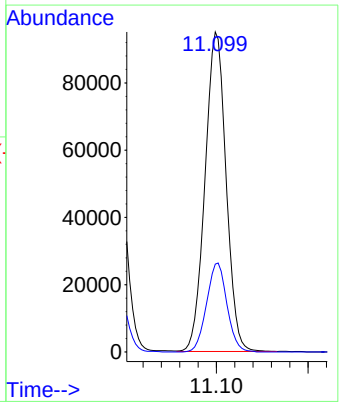




#82
4-Chlorotoluene
Concen: 20.483 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 91 Resp: 151278

Ion	Ratio	Lower	Upper
91	100		
126	26.9	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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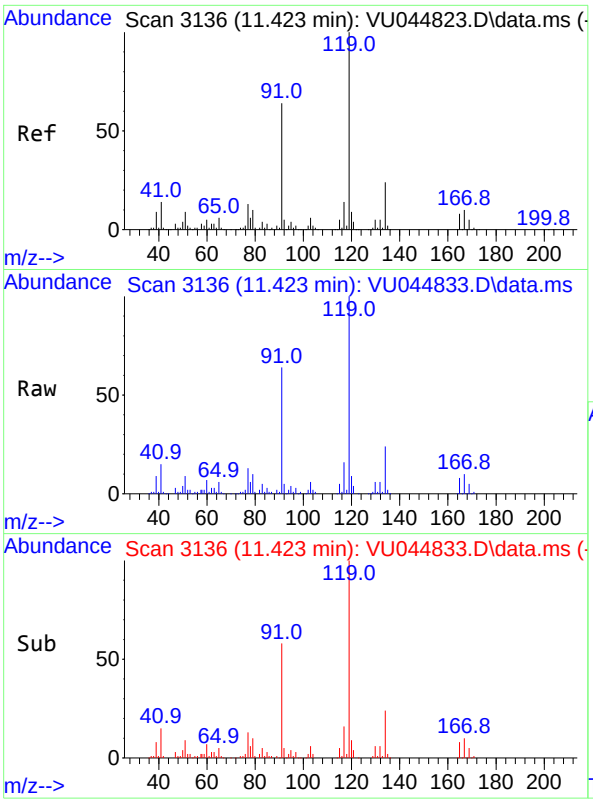
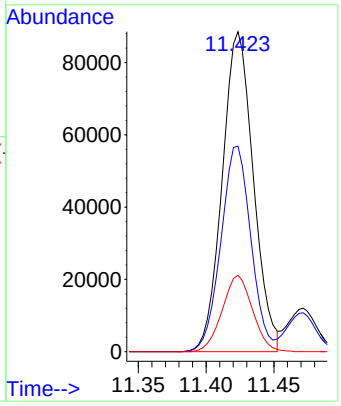
9/27/2021 11:03:02 AM

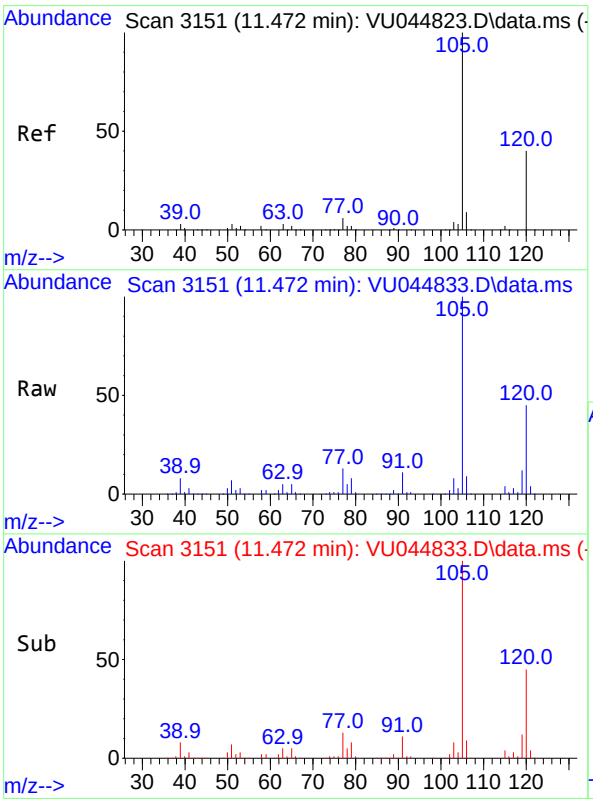


#83
tert-Butylbenzene
Concen: 19.734 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:119 Resp: 141654

Ion	Ratio	Lower	Upper
119	100		
91	61.8	30.4	91.2
134	23.2	11.5	34.5

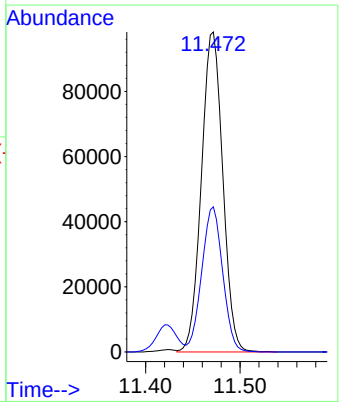




#84
1,2,4-Trimethylbenzene
Concen: 21.015 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

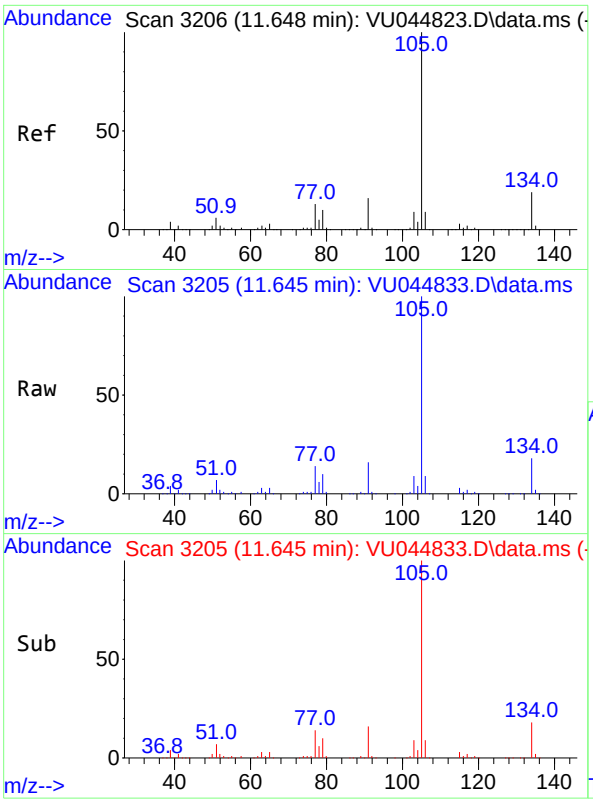
Tgt Ion:105 Resp: 154161

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

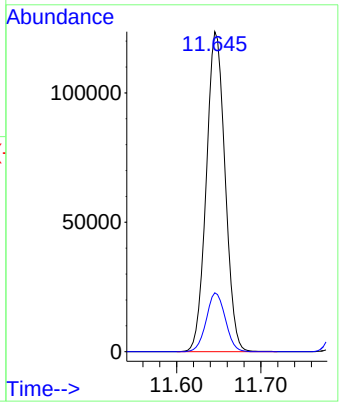
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

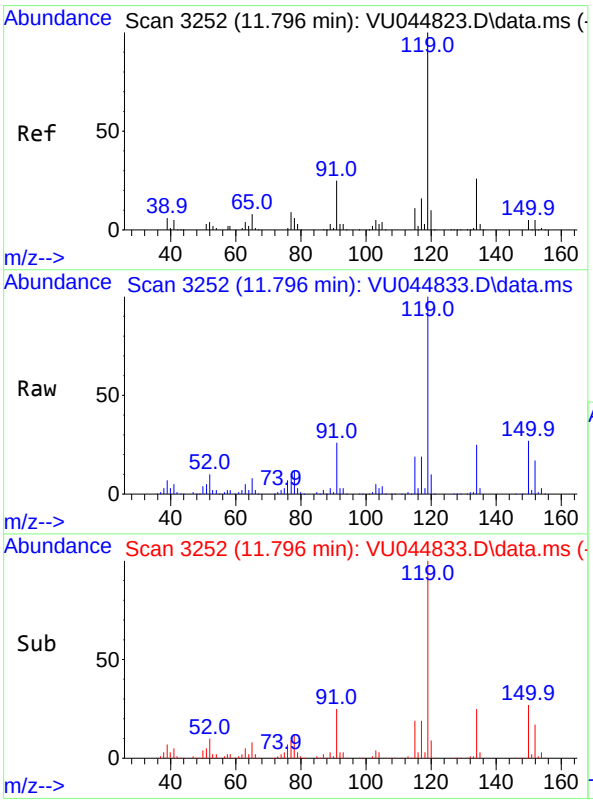


#85
sec-Butylbenzene
Concen: 20.612 ug/l
RT: 11.645 min Scan# 3205
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:105 Resp: 191323

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.3	28.0

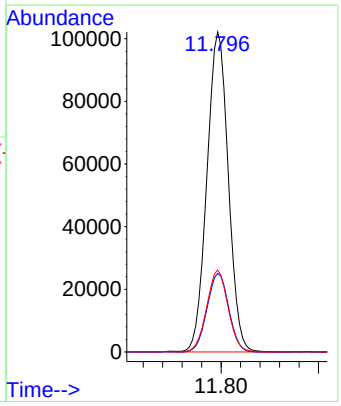




#86
p-Isopropyltoluene
Concen: 20.589 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

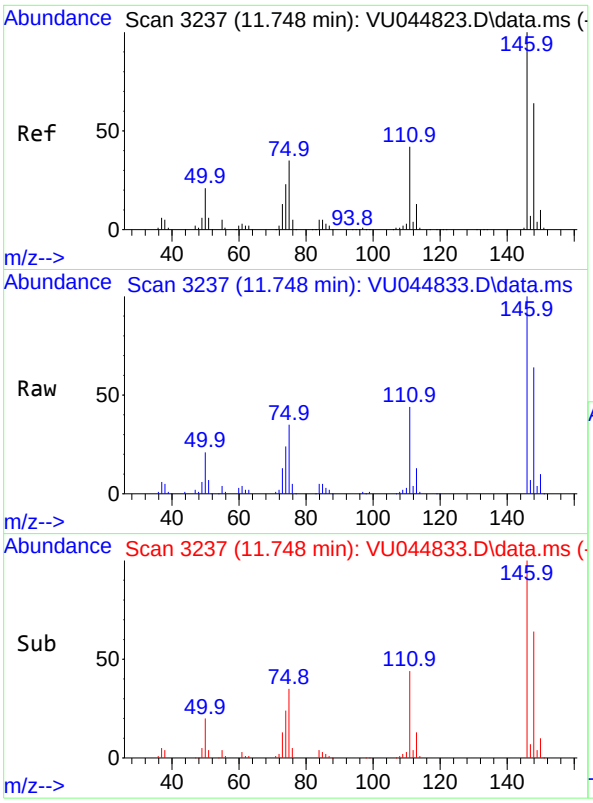
Tgt Ion:119 Resp: 155473

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.8	38.3
91	25.6	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

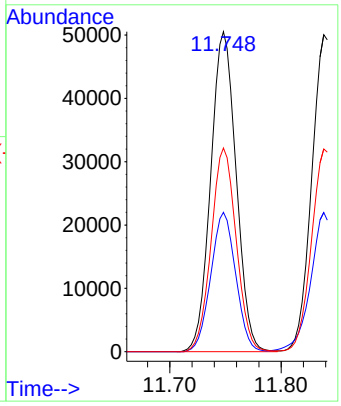
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

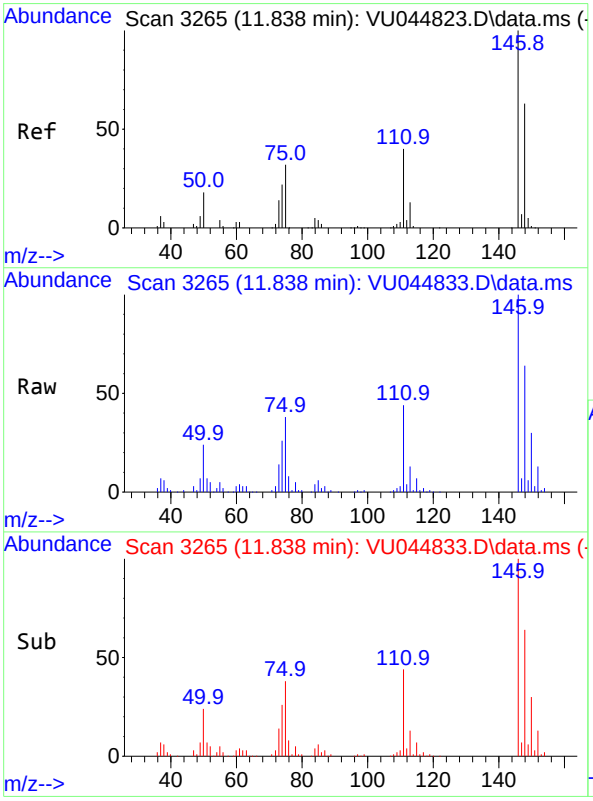


#87
1,3-Dichlorobenzene
Concen: 19.677 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:146 Resp: 80140

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.2	63.6
148	62.8	32.1	96.3

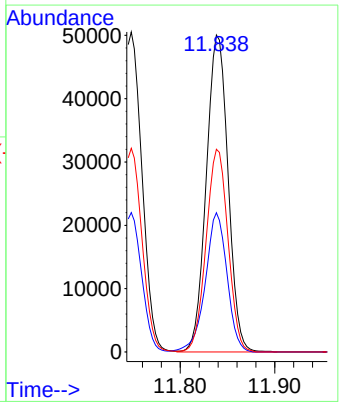




#88
1,4-Dichlorobenzene
Concen: 19.033 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:146 Resp: 80162

Ion	Ratio	Lower	Upper
146	100		
111	43.8	20.3	61.0
148	64.3	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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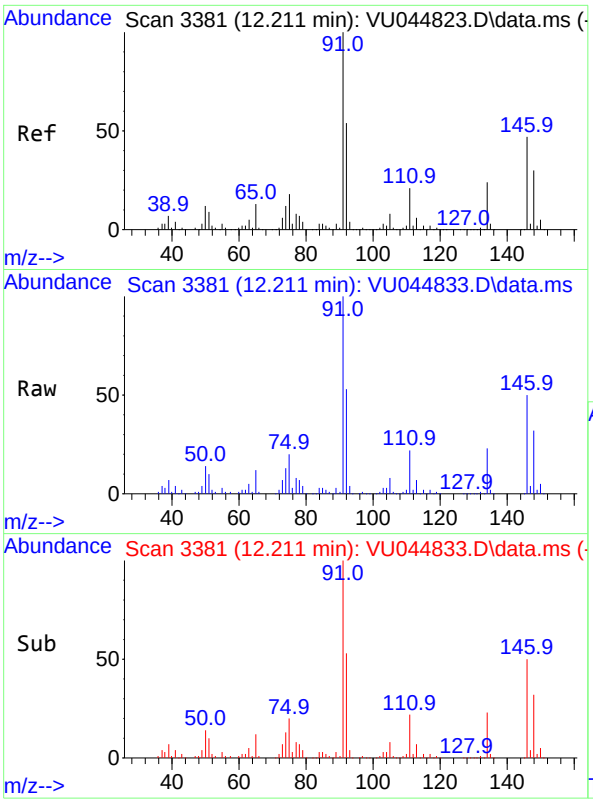
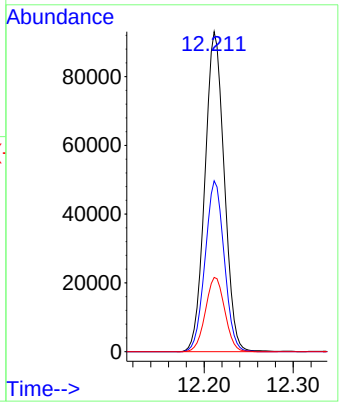
9/27/2021 11:03:02 AM

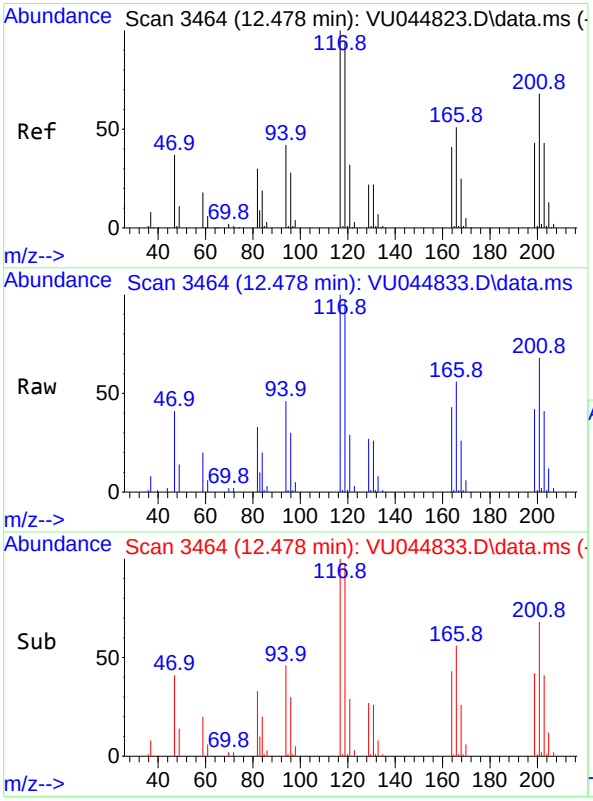


#89
n-Butylbenzene
Concen: 18.837 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion: 91 Resp: 140169

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.8	80.4
134	23.2	11.8	35.4

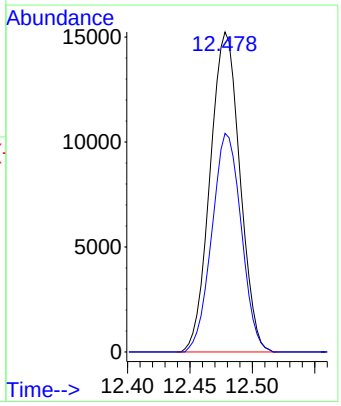




#90
Hexachloroethane
Concen: 18.666 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:117 Resp: 25398

Ion	Ratio	Lower	Upper
117	100		
201	67.4	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

Manual Integrations APPROVED
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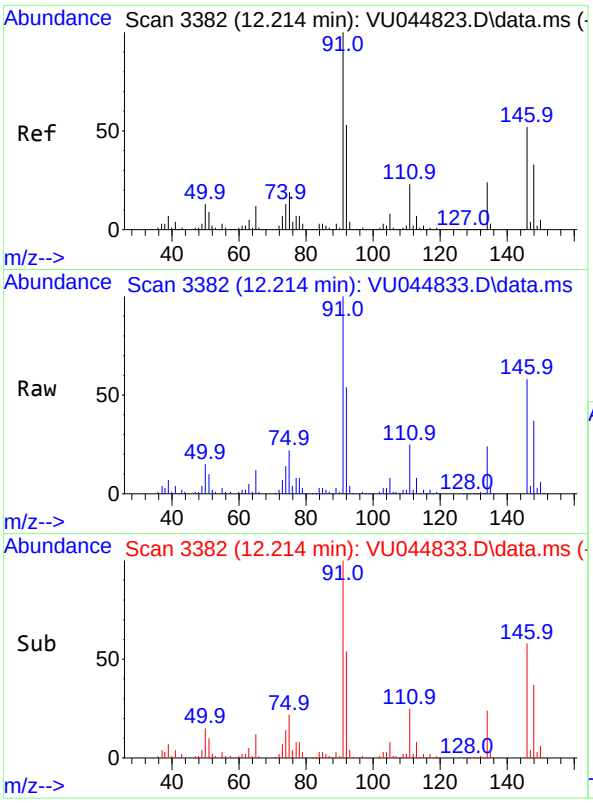
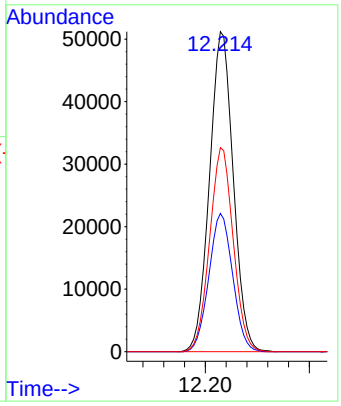
9/27/2021 11:03:02 AM

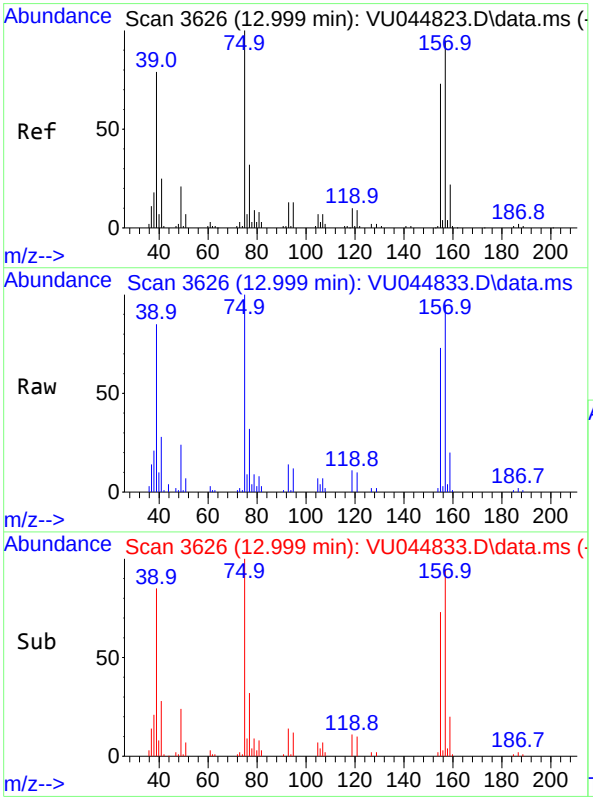


#91
1,2-Dichlorobenzene
Concen: 18.829 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:146 Resp: 81266

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.3
148	63.4	31.8	95.3

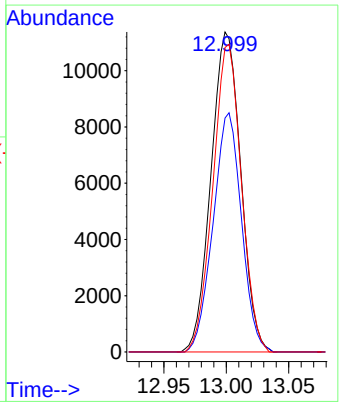




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.487 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

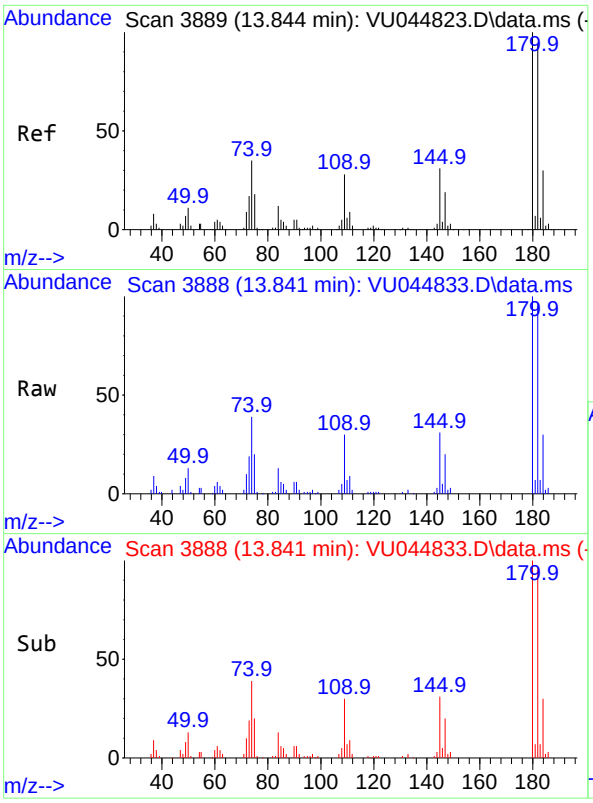
Tgt Ion: 75 Resp: 18910

Ion	Ratio	Lower	Upper
75	100		
155	71.4	36.9	110.6
157	92.2	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

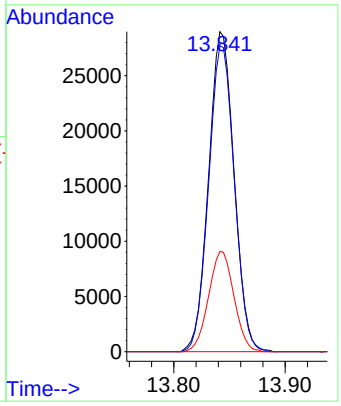
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

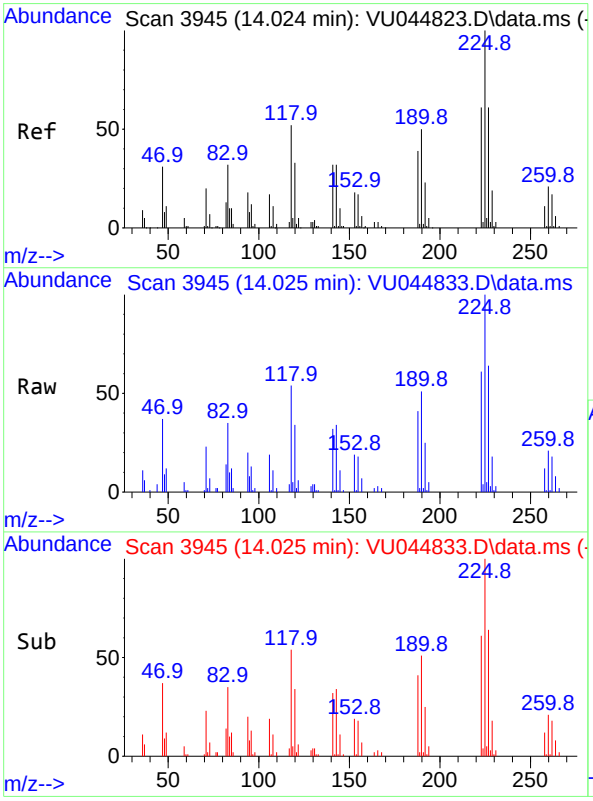


#93
1,2,4-Trichlorobenzene
Concen: 19.353 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. -0.003 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:180 Resp: 46154

Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.4	142.3
145	31.1	15.4	46.2

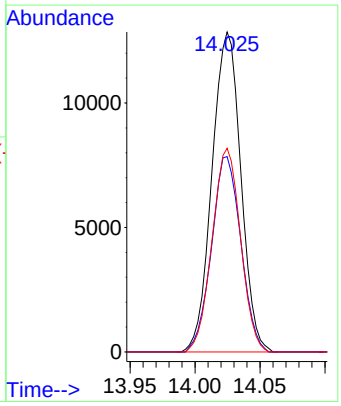




#94
Hexachlorobutadiene
Concen: 18.687 ug/l
RT: 14.025 min Scan# 3945
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

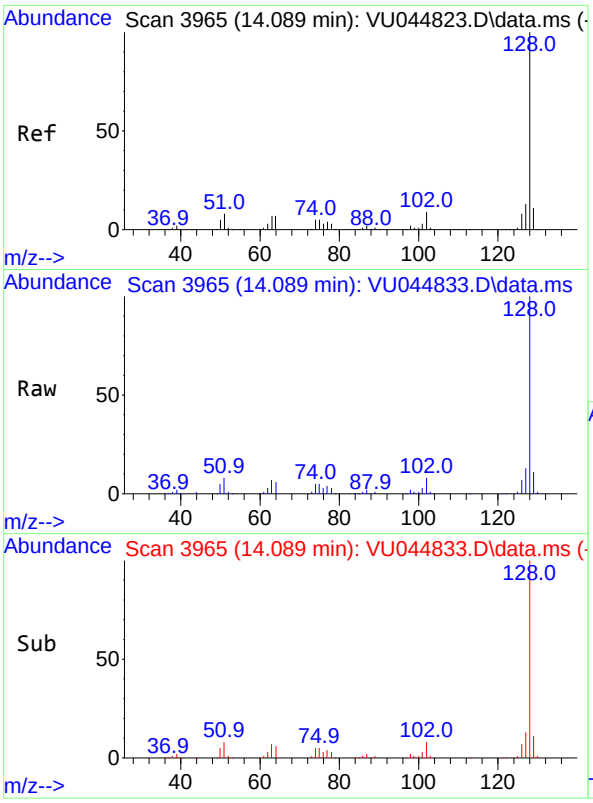
Tgt Ion:225 Resp: 19826

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.1	93.3
227	62.6	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS01

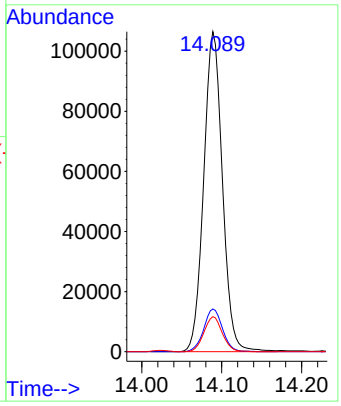
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:02 AM

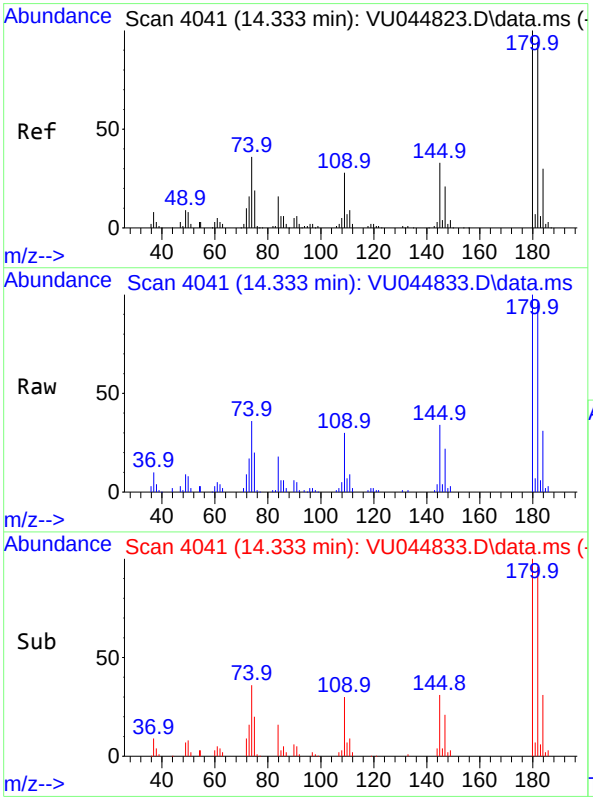


#95
Naphthalene
Concen: 18.860 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:128 Resp: 173352

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	10.8	8.6	13.0

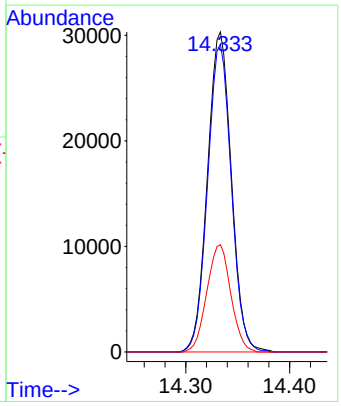




#96
1,2,3-Trichlorobenzene
Concen: 19.978 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU044833.D
Acq: 25 Sep 2021 13:50

Tgt Ion:180 Resp: 48448

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.1	141.4
145	33.6	16.4	49.2



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBS02	SDG No.:	M3859
Lab Sample ID:	VU0925WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044859.D	1		09/26/21 00:46	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.9		0.23	1.00	ug/L
74-87-3	Chloromethane	17.4		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	19.9		0.19	1.00	ug/L
74-83-9	Bromomethane	26.5		0.87	5.00	ug/L
75-00-3	Chloroethane	19.7		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.3		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	1.00	ug/L
67-64-1	Acetone	97.5		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	18.0		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.1		0.22	1.00	ug/L
79-20-9	Methyl Acetate	19.3		0.47	1.00	ug/L
75-09-2	Methylene Chloride	20.0		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.8		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.4		0.21	1.00	ug/L
110-82-7	Cyclohexane	18.8		1.30	5.00	ug/L
78-93-3	2-Butanone	98.3		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.22	1.00	ug/L
74-97-5	Bromochloromethane	16.3		0.26	1.00	ug/L
67-66-3	Chloroform	20.0		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.1		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.6		0.14	1.00	ug/L
71-43-2	Benzene	19.2		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.8		0.25	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.1		0.87	5.00	ug/L
108-88-3	Toluene	19.5		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.6		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBS02	SDG No.:	M3859
Lab Sample ID:	VU0925WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044859.D	1		09/26/21 00:46	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.4		0.24	1.00	ug/L
591-78-6	2-Hexanone	93.8		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.6		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	19.9		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	39.7		0.32	2.00	ug/L
95-47-6	o-Xylene	20.1		0.19	1.00	ug/L
100-42-5	Styrene	18.6		0.16	1.00	ug/L
75-25-2	Bromoform	18.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	21.1		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.8		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.8		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.7		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.3		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		78 - 117	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	52.0		92 - 112	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	142000	5.378			
540-36-3	1,4-Difluorobenzene	265000	6.253			
3114-55-4	Chlorobenzene-d5	248000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	118000	11.815			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0925WBS02	SDG No.:	M3859
Lab Sample ID:	VU0925WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044859.D	1		09/26/21 00:46	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044859.D
Acq On : 26 Sep 2021 00:46
Operator : SY/MD
Sample : VU0925WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 27 02:53:14 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	142109	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	265456	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	248011	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	118157	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	136629	55.088	ug/l	0.00
Spiked Amount 50.000			Recovery = 110.180%			
35) Dibromofluoromethane	5.295	113	94195	51.725	ug/l	0.00
Spiked Amount 50.000			Recovery = 103.440%			
50) Toluene-d8	7.902	98	357425	51.968	ug/l	0.00
Spiked Amount 50.000			Recovery = 103.940%			
62) 4-Bromofluorobenzene	10.635	95	128397	50.262	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	33911	19.925	ug/l	98
3) Chloromethane	1.520	50	44957	17.406	ug/l	99
4) Vinyl Chloride	1.607	62	47892	19.867	ug/l	100
5) Bromomethane	1.851	94	33580	26.459	ug/l	100
6) Chloroethane	1.932	64	32209	19.686	ug/l	96
7) Trichlorofluoromethane	2.141	101	60112	20.305	ug/l	98
8) Diethyl Ether	2.382	74	27834	20.538	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.584	101	34032	19.685	ug/l	99
10) Methyl Iodide	2.726	142	29405	15.652	ug/l	97
11) Tert butyl alcohol	3.202	59	67062	92.640	ug/l	99
12) 1,1-Dichloroethene	2.584	96	33097	19.343	ug/l	99
13) Acrolein	2.491	56	18377	93.843	ug/l	97
14) Allyl chloride	2.928	41	62442	18.802	ug/l	98
15) Acrylonitrile	3.321	53	150499	99.527	ug/l	99
16) Acetone	2.633	43	136449	97.533	ug/l	99
17) Carbon Disulfide	2.797	76	86823	18.038	ug/l	100
18) Methyl Acetate	2.954	43	90426	19.347	ug/l	98
19) Methyl tert-butyl Ether	3.369	73	134986	21.127	ug/l	98
20) Methylene Chloride	3.051	84	45268	19.989	ug/l	98
21) trans-1,2-Dichloroethene	3.359	96	36273	19.800	ug/l	96
22) Diisopropyl ether	3.999	45	133963	20.415	ug/l	94
23) Vinyl Acetate	3.960	43	542128	100.746	ug/l	99
24) 1,1-Dichloroethane	3.877	63	77793	20.425	ug/l	100
25) 2-Butanone	4.710	43	208631	98.285	ug/l	100
26) 2,2-Dichloropropane	4.671	77	49316	17.266	ug/l	100
27) cis-1,2-Dichloroethene	4.674	96	43149	19.366	ug/l	99
28) Bromochloromethane	4.980	49	29588	16.347	ug/l	100
29) Tetrahydrofuran	5.057	42	133250	99.780	ug/l	98
30) Chloroform	5.092	83	76707	20.030	ug/l	97
31) Cyclohexane	5.391	56	66836	18.770	ug/l	94
32) 1,1,1-Trichloroethane	5.321	97	62282	20.128	ug/l	99
36) 1,1-Dichloropropene	5.530	75	53656	19.050	ug/l	98
37) Ethyl Acetate	4.809	43	77833	18.834	ug/l	98
38) Carbon Tetrachloride	5.530	117	47201	18.745	ug/l	99
39) Methylcyclohexane	6.767	83	59303	18.616	ug/l	99
40) Benzene	5.777	78	164784	19.190	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044859.D
Acq On : 26 Sep 2021 00:46
Operator : SY/MD
Sample : VU0925WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 27 02:53:14 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.976	41	40005	19.393	ug/l		98
42) 1,2-Dichloroethane	5.800	62	66970	19.824	ug/l		98
43) Isopropyl Acetate	5.919	43	110253	19.069	ug/l		100
44) Trichloroethene	6.546	130	37896	18.362	ug/l		99
45) 1,2-Dichloropropane	6.796	63	44477	19.138	ug/l		93
46) Dibromomethane	6.922	93	29442	19.119	ug/l		99
47) Bromodichloromethane	7.111	83	58139	19.140	ug/l		99
48) Methyl methacrylate	6.964	41	52089	19.087	ug/l		96
49) 1,4-Dioxane	6.980	88	26356	377.886	ug/l		96
51) 4-Methyl-2-Pentanone	7.796	43	391801	95.081	ug/l		99
52) Toluene	7.973	92	100036	19.485	ug/l		100
53) t-1,3-Dichloropropene	8.214	75	58846	18.595	ug/l		98
54) cis-1,3-Dichloropropene	7.610	75	64708	18.880	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	42685	19.447	ug/l		97
56) Ethyl methacrylate	8.336	69	68021	18.627	ug/l		99
57) 1,3-Dichloropropane	8.578	76	76265	19.512	ug/l		99
58) 2-Chloroethyl Vinyl ether	7.468	63	122344	141.239	ug/l		98
59) 2-Hexanone	8.687	43	310205	93.785	ug/l		100
60) Dibromochloromethane	8.812	129	39477	18.781	ug/l		97
61) 1,2-Dibromoethane	8.928	107	43872	19.035	ug/l		99
64) Tetrachloroethene	8.555	164	33032	19.649	ug/l		99
65) Chlorobenzene	9.449	112	100471	19.514	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	35518	19.341	ug/l		98
67) Ethyl Benzene	9.574	91	182658	19.876	ug/l		100
68) m/p-Xylenes	9.697	106	139585	39.714	ug/l		98
69) o-Xylene	10.105	106	68155	20.053	ug/l		98
70) Styrene	10.118	104	113776	18.560	ug/l		99
71) Bromoform	10.295	173	27595	18.161	ug/l	#	98
73) Isopropylbenzene	10.488	105	177035	21.110	ug/l		99
74) N-amyl acetate	10.324	43	89903	21.033	ug/l		100
75) 1,1,2,2-Tetrachloroethane	10.787	83	74982	19.626	ug/l		100
76) 1,2,3-Trichloropropane	10.828	75	71809m	20.070	ug/l		
77) Bromobenzene	10.787	156	41168	20.547	ug/l		99
78) n-propylbenzene	10.909	91	215658	21.223	ug/l		99
79) 2-Chlorotoluene	10.989	91	131716	21.268	ug/l		99
80) 1,3,5-Trimethylbenzene	11.092	105	152295	21.439	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.549	75	19716	17.851	ug/l		95
82) 4-Chlorotoluene	11.098	91	150076	21.285	ug/l		99
83) tert-Butylbenzene	11.423	119	144947	21.152	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	152499	21.776	ug/l		99
85) sec-Butylbenzene	11.648	105	192064	21.674	ug/l		100
86) p-Isopropyltoluene	11.796	119	152017	21.088	ug/l		98
87) 1,3-Dichlorobenzene	11.748	146	77155	19.844	ug/l		100
88) 1,4-Dichlorobenzene	11.838	146	78369	19.491	ug/l		98
89) n-Butylbenzene	12.211	91	132863	18.712	ug/l		99
90) Hexachloroethane	12.478	117	26355	20.289	ug/l		91
91) 1,2-Dichlorobenzene	12.214	146	79509	19.297	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.999	75	19240	20.768	ug/l		93
93) 1,2,4-Trichlorobenzene	13.844	180	44745	19.653	ug/l		99
94) Hexachlorobutadiene	14.024	225	18173	17.942	ug/l		98
95) Naphthalene	14.089	128	169087	19.249	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	47095	20.342	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044859.D
Acq On : 26 Sep 2021 00:46
Operator : SY/MD
Sample : VU0925WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 27 02:53:14 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044859.D
Acq On : 26 Sep 2021 00:46
Operator : SY/MD
Sample : VU0925WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 27 02:53:14 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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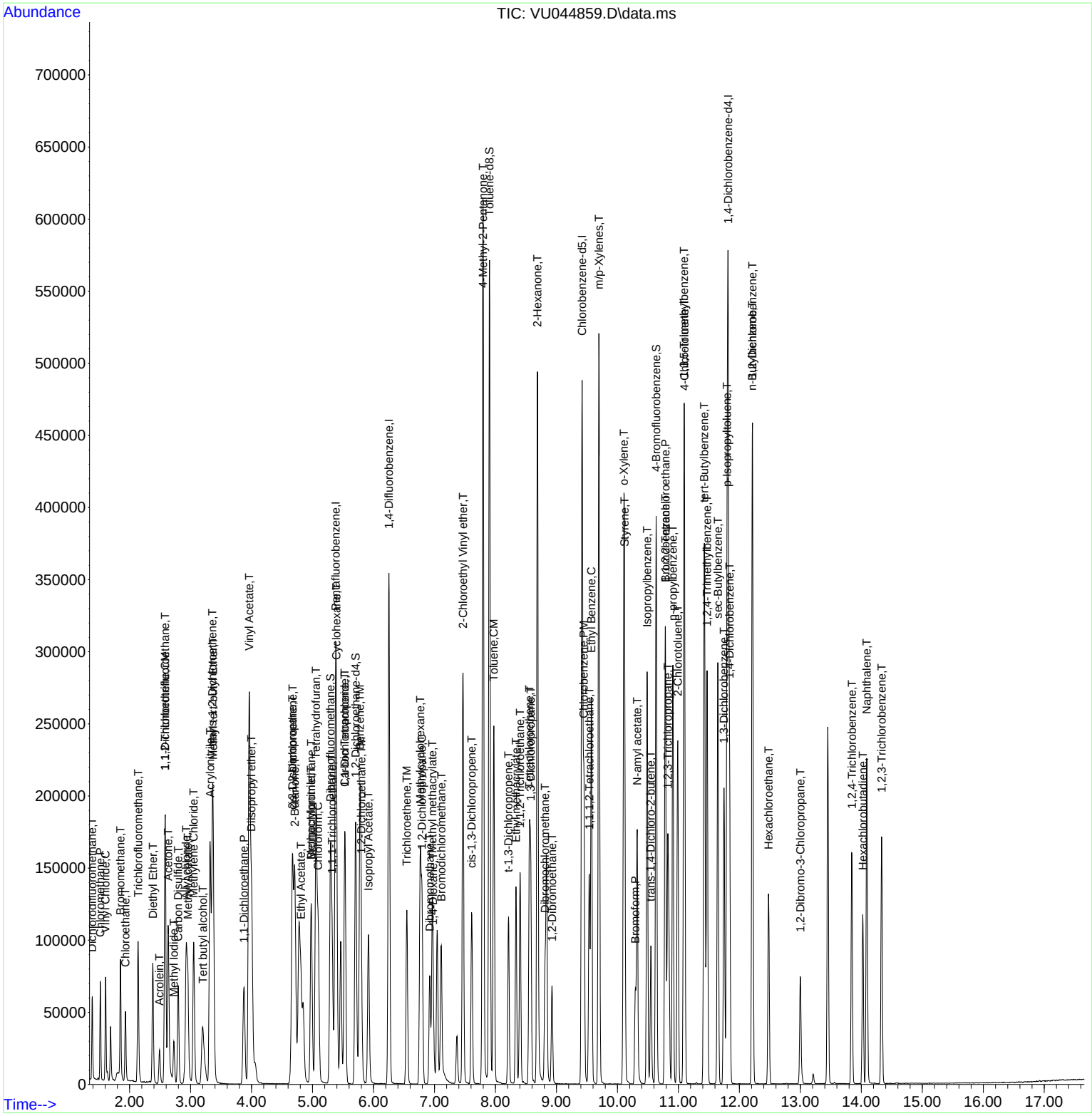
9/27/2021 11:03:15 AM



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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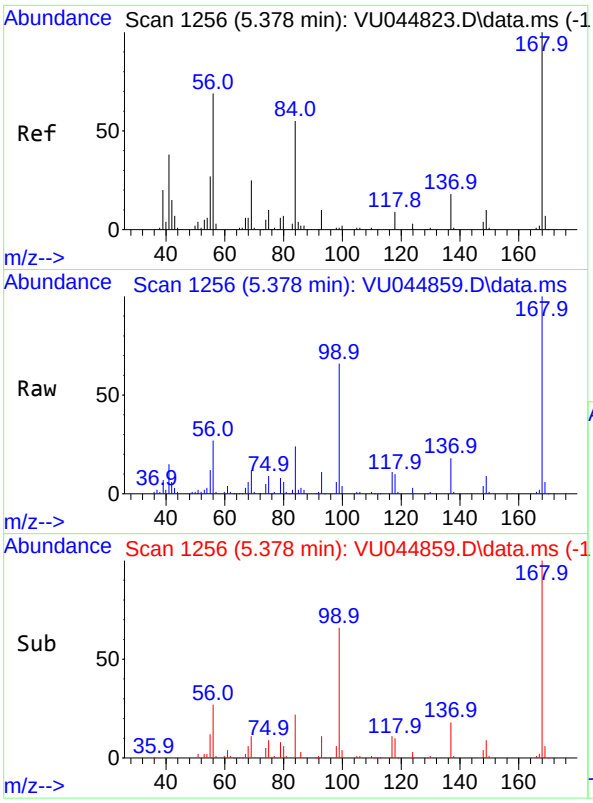
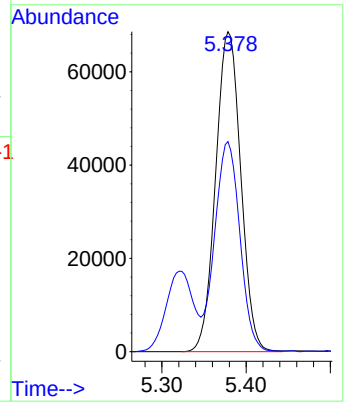
9/27/2021 11:03:15 AM

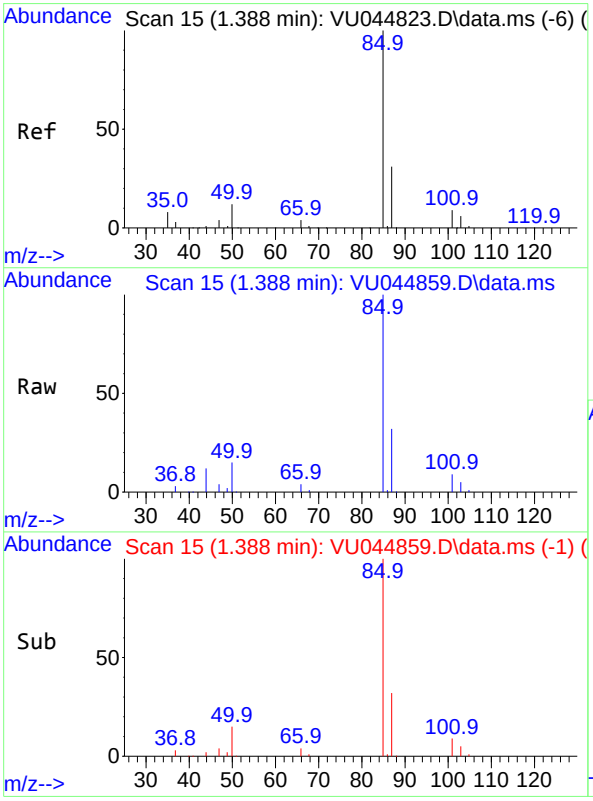


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:168 Resp: 142109

Ion	Ratio	Lower	Upper
168	100		
99	65.4	51.4	77.0

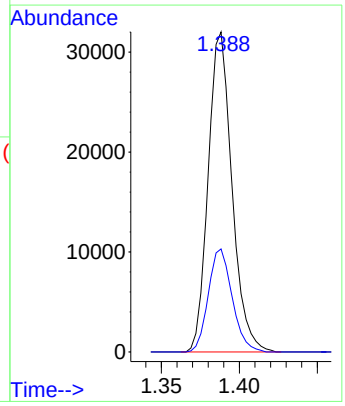




#2
Dichlorodifluoromethane
Concen: 19.925 ug/l
RT: 1.388 min Scan# 15
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

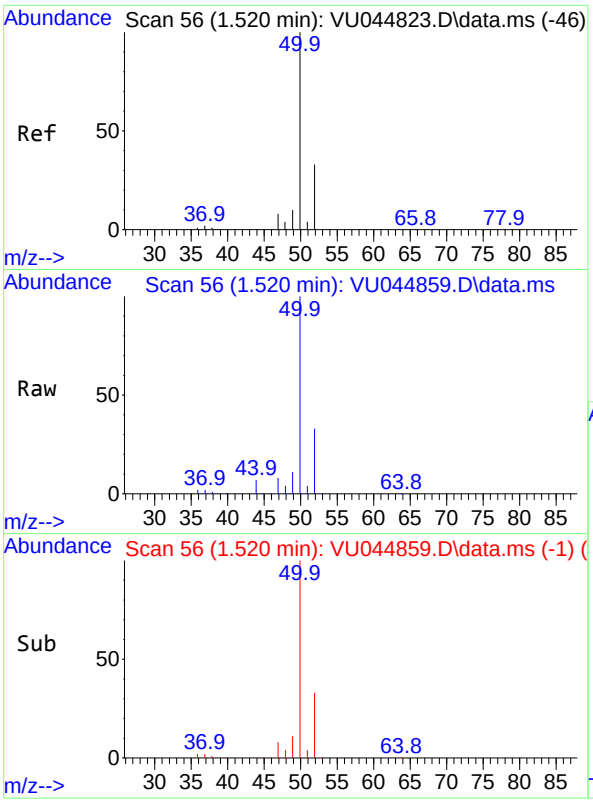
Tgt Ion: 85 Resp: 33911

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

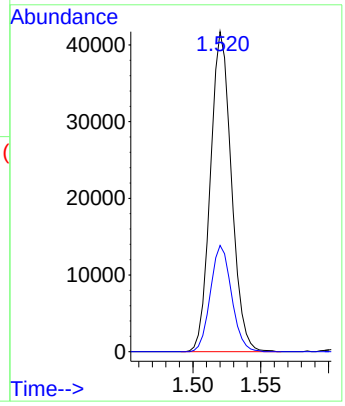
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

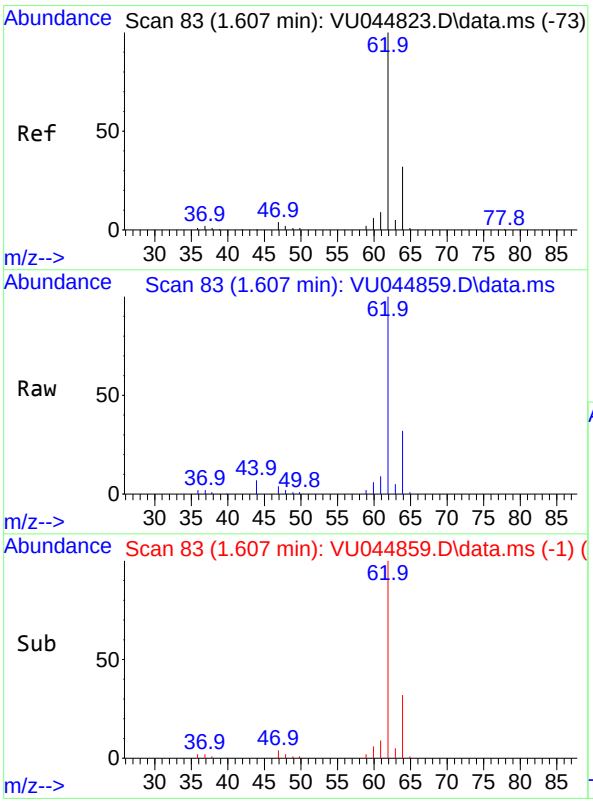


#3
Chloromethane
Concen: 17.406 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 50 Resp: 44957

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.3	39.5

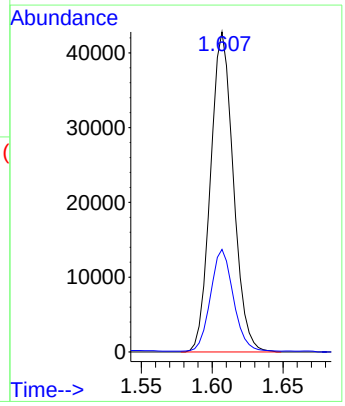




#4
Vinyl Chloride
Concen: 19.867 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 62 Resp: 47892

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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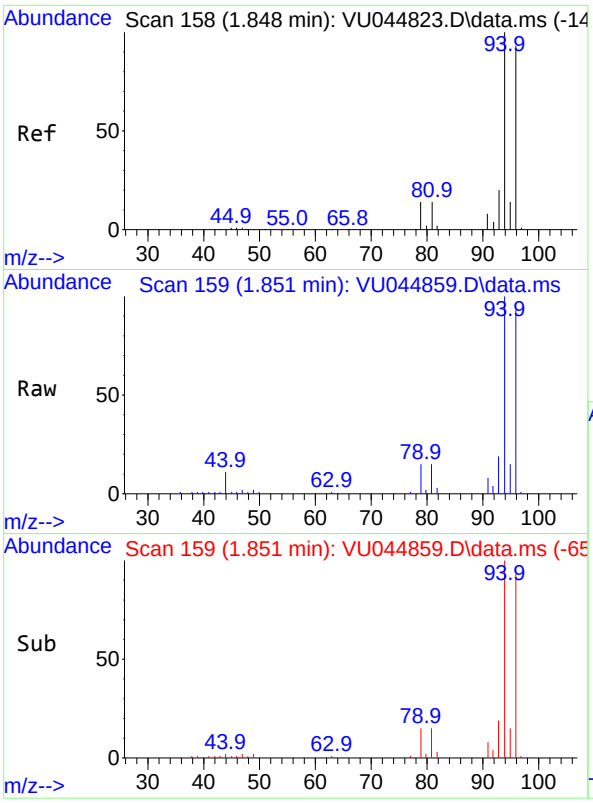
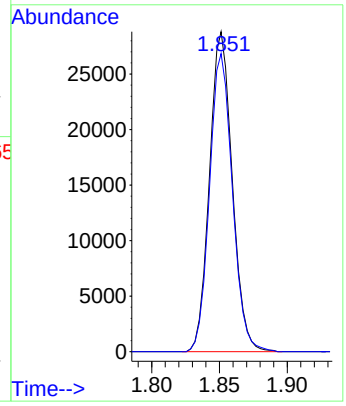
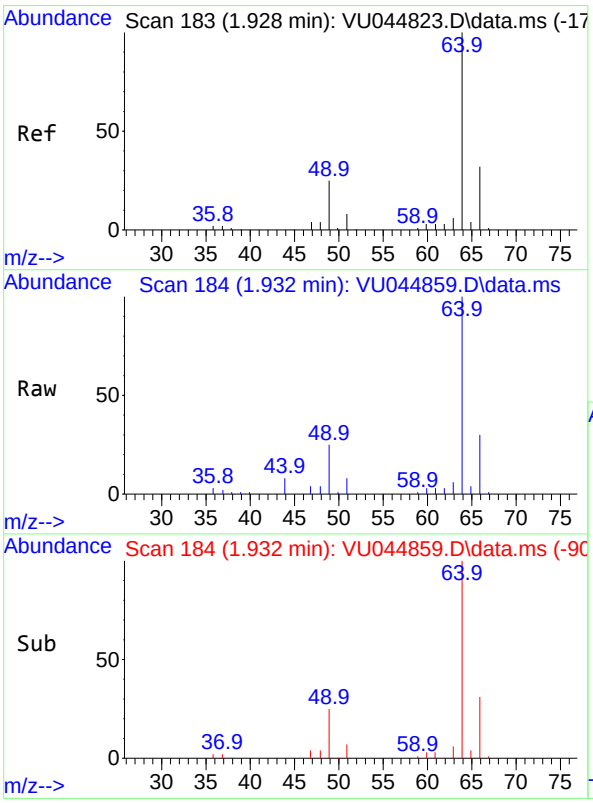


#5
Bromomethane
Concen: 26.459 ug/l
RT: 1.851 min Scan# 159
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 94 Resp: 33580

Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7

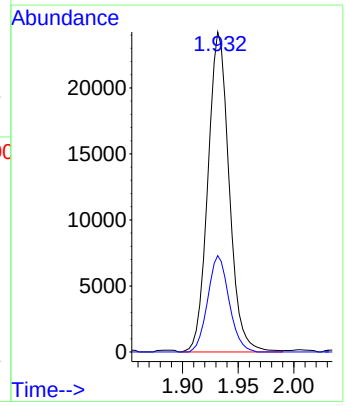




#6
Chloroethane
Concen: 19.686 ug/l
RT: 1.932 min Scan# 184
Delta R.T. 0.004 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

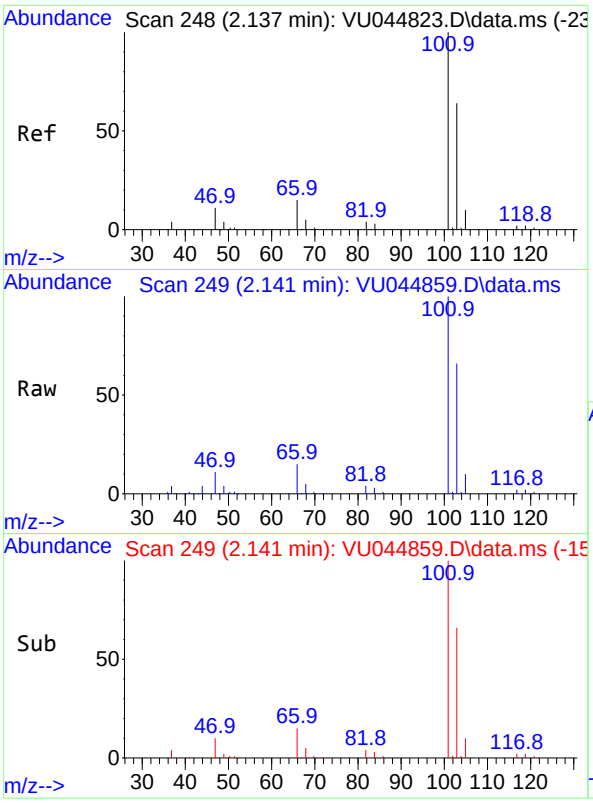
Tgt Ion: 64 Resp: 32209

Ion	Ratio	Lower	Upper
64	100		
66	30.1	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

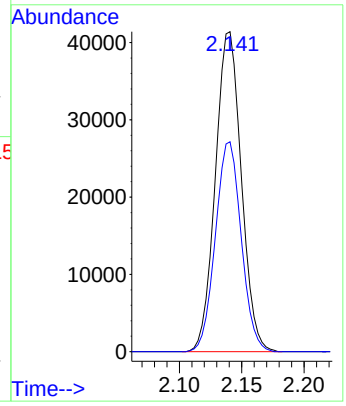
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

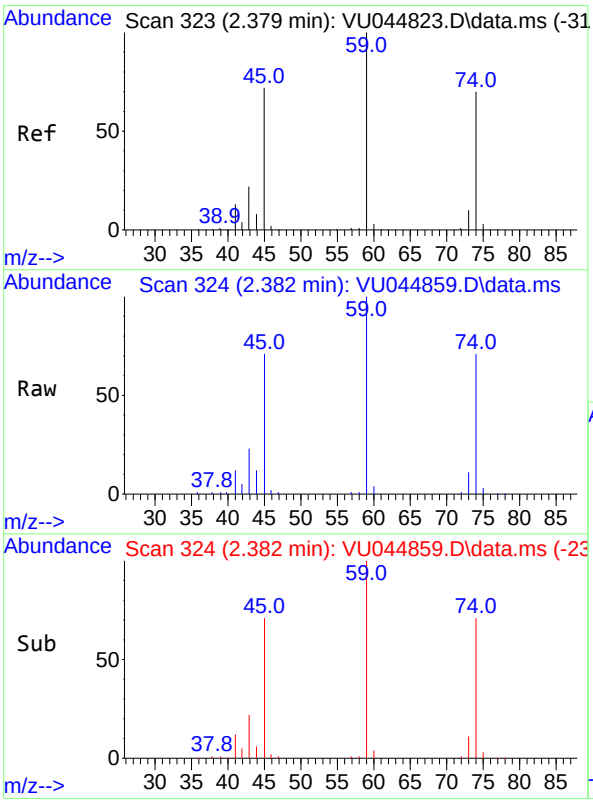


#7
Trichlorofluoromethane
Concen: 20.305 ug/l
RT: 2.141 min Scan# 249
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:101 Resp: 60112

Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.2	76.8

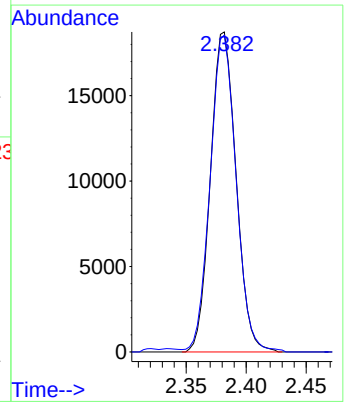




#8
Diethyl Ether
Concen: 20.538 ug/l
RT: 2.382 min Scan# 324
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 74 Resp: 27834

Ion	Ratio	Lower	Upper
74	100		
45	100.4	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
MMDadoda
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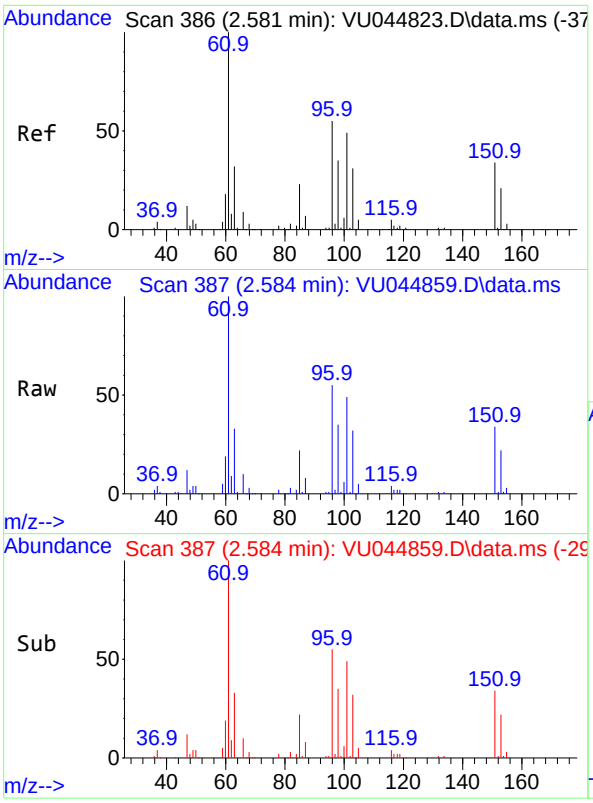
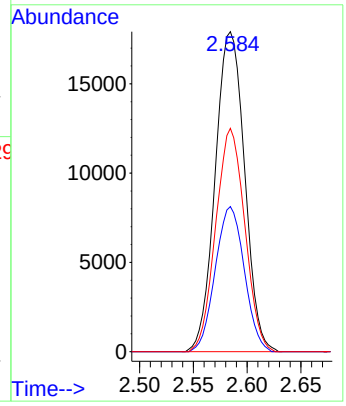
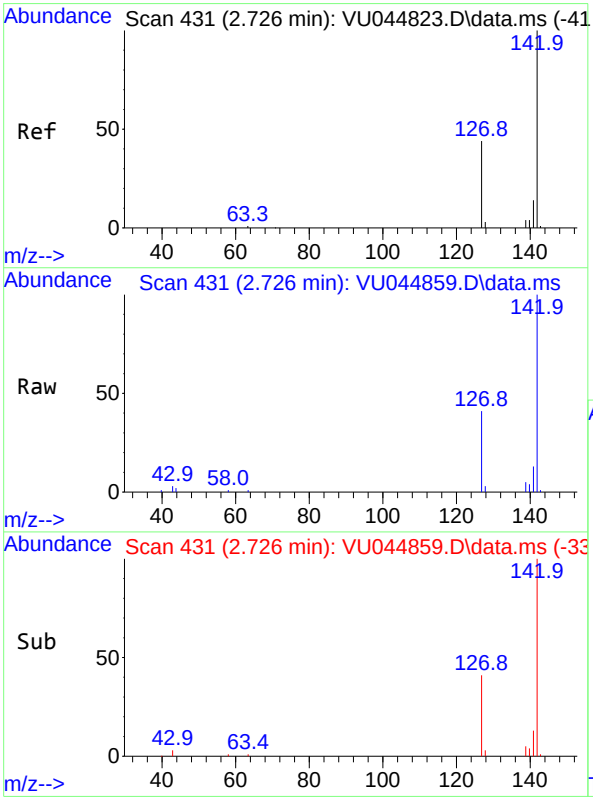


#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.685 ug/l
RT: 2.584 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:101 Resp: 34032

Ion	Ratio	Lower	Upper
101	100		
85	44.9	37.2	55.8
151	69.2	55.8	83.8

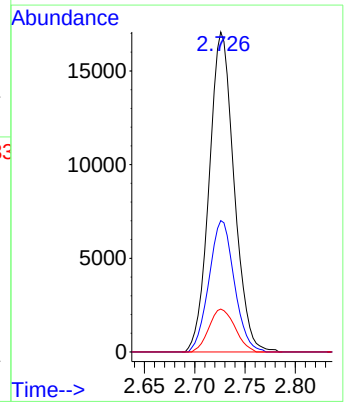




#10
Methyl Iodide
Concen: 15.652 ug/l
RT: 2.726 min Scan# 431
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:142 Resp: 29405

Ion	Ratio	Lower	Upper
142	100		
127	41.8	35.6	53.4
141	14.0	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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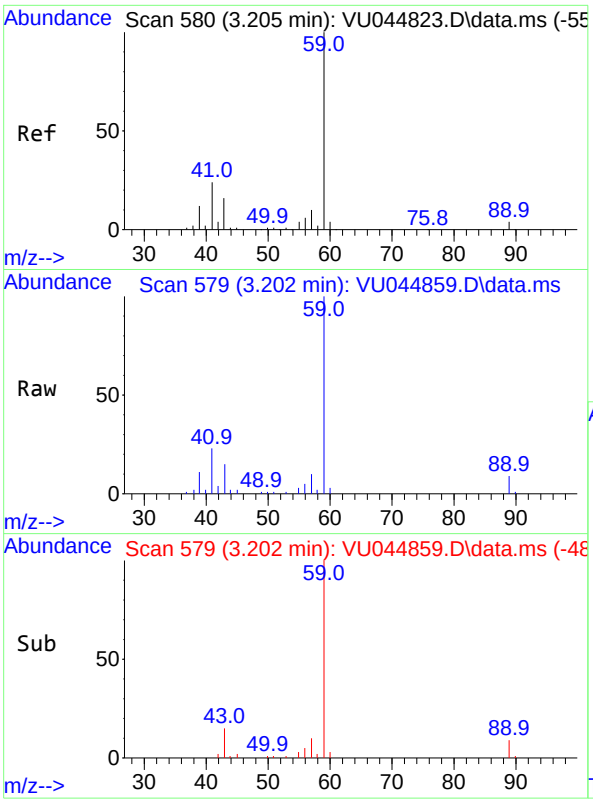
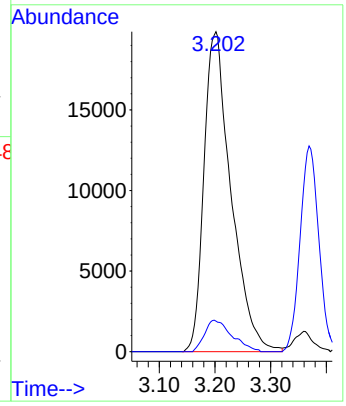
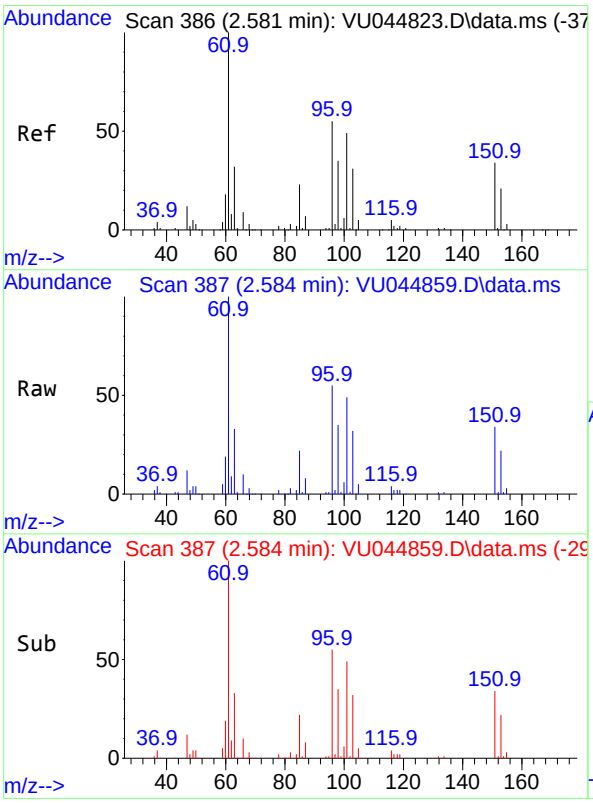


#11
Tert butyl alcohol
Concen: 92.640 ug/l
RT: 3.202 min Scan# 579
Delta R.T. -0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 59 Resp: 67062

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

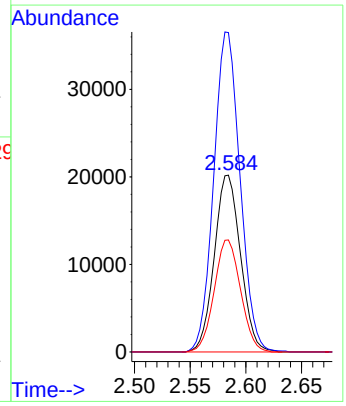




#12
1,1-Dichloroethene
Concen: 19.343 ug/l
RT: 2.584 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 96 Resp: 33097

Ion	Ratio	Lower	Upper
96	100		
61	180.5	145.4	218.0
98	63.3	50.9	76.3



Instrument :
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ClientSampleId :
VU0925WBS02

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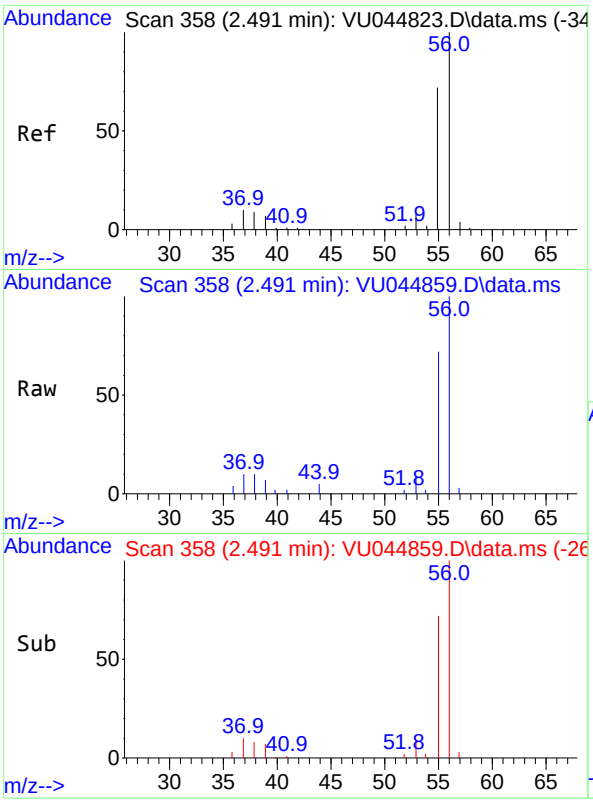
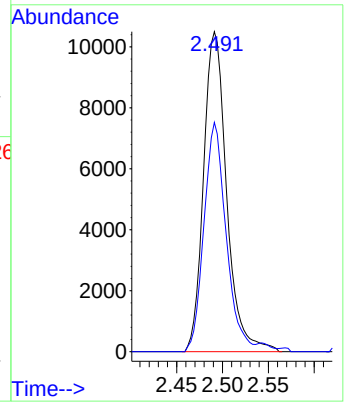
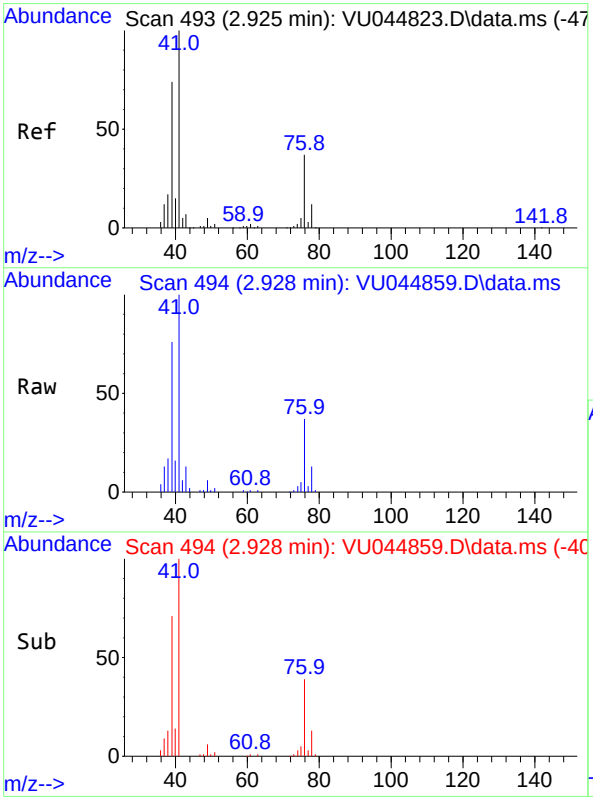


#13
Acrolein
Concen: 93.843 ug/l
RT: 2.491 min Scan# 358
Delta R.T. 0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 56 Resp: 18377

Ion	Ratio	Lower	Upper
56	100		
55	68.8	57.4	86.0

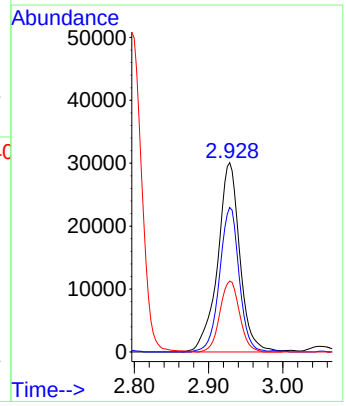




#14
Allyl chloride
Concen: 18.802 ug/l
RT: 2.928 min Scan# 494
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 41 Resp: 62442

Ion	Ratio	Lower	Upper
41	100		
39	67.5	53.0	79.6
76	33.2	25.7	38.5



Instrument :
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ClientSampleId :
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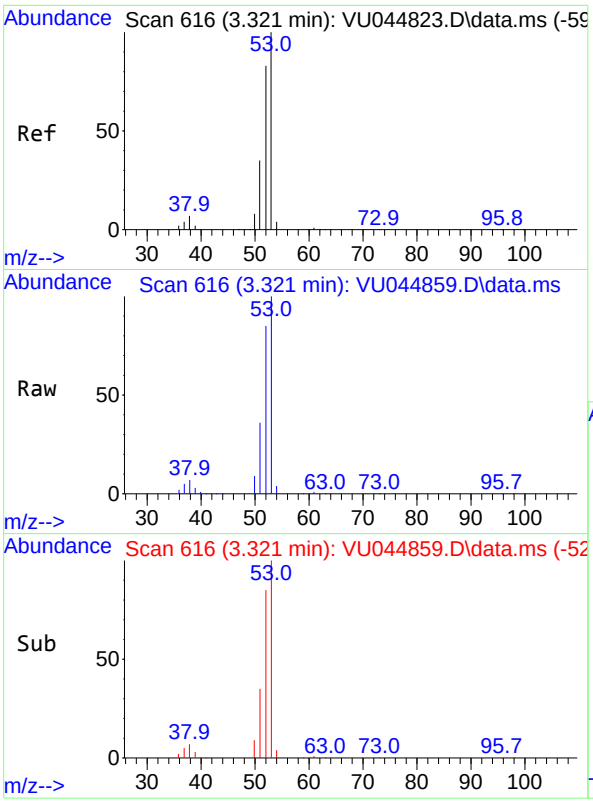
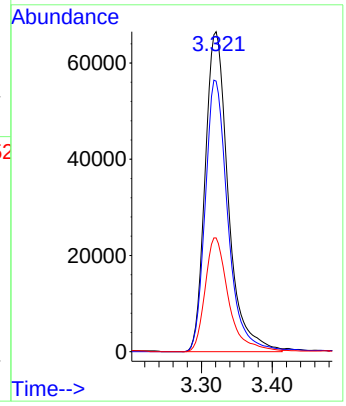
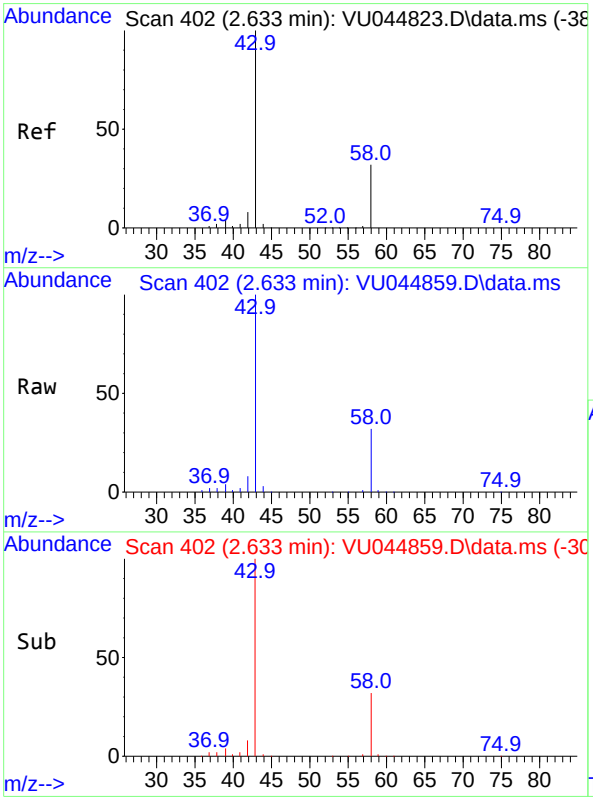


#15
Acrylonitrile
Concen: 99.527 ug/l
RT: 3.321 min Scan# 616
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 53 Resp: 150499

Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.0	99.0
51	36.5	28.6	42.8

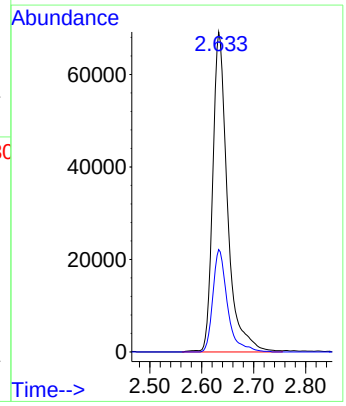




#16
Acetone
Concen: 97.533 ug/l
RT: 2.633 min Scan# 402
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 136449

Ion	Ratio	Lower	Upper
43	100		
58	32.0	25.2	37.8



Instrument :
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ClientSampleId :
VU0925WBS02

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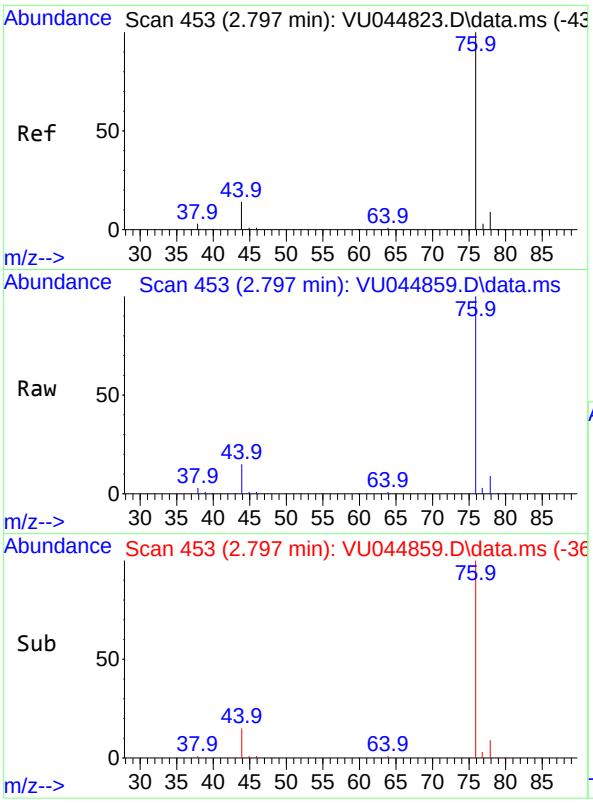
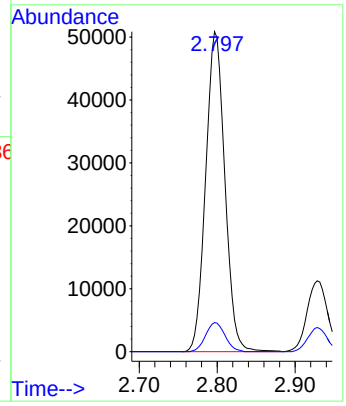
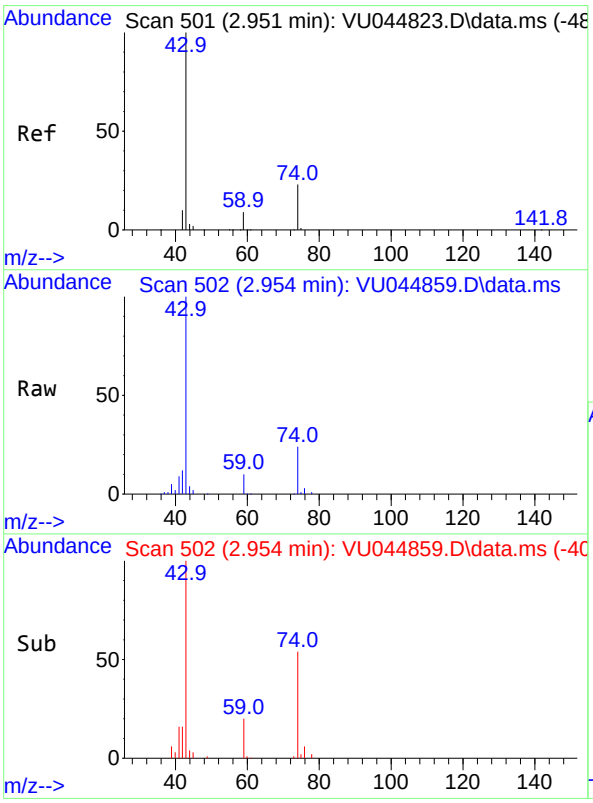


#17
Carbon Disulfide
Concen: 18.038 ug/l
RT: 2.797 min Scan# 453
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 76 Resp: 86823

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

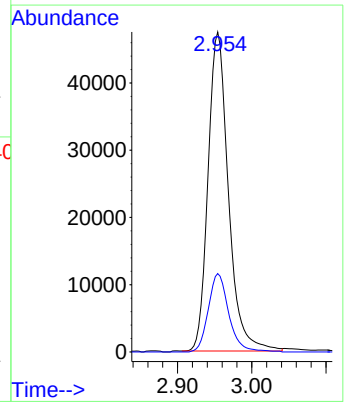




#18
Methyl Acetate
Concen: 19.347 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 90426

Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.0	28.6



Instrument :
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ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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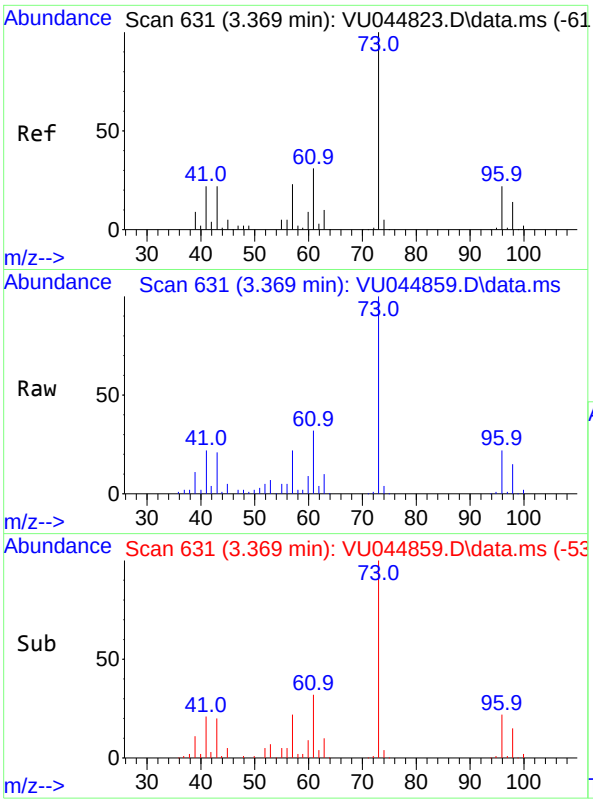
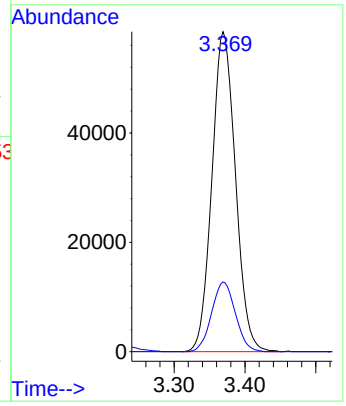
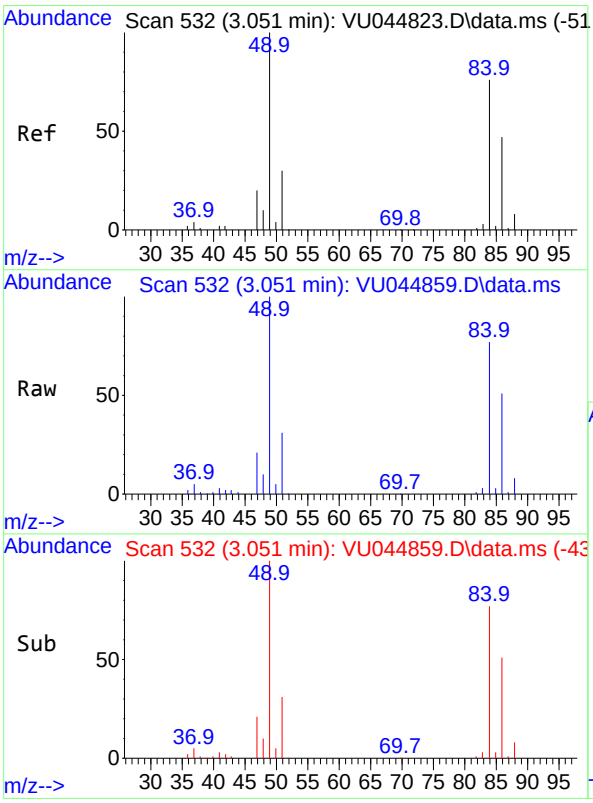


#19
Methyl tert-butyl Ether
Concen: 21.127 ug/l
RT: 3.369 min Scan# 631
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 73 Resp: 134986

Ion	Ratio	Lower	Upper
73	100		
57	21.8	18.2	27.2

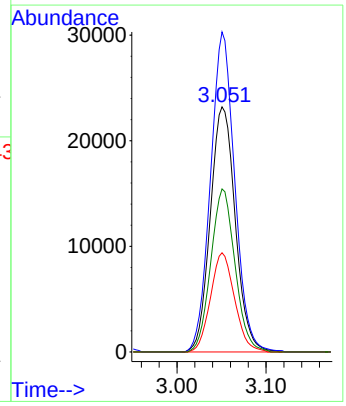




#20
Methylene Chloride
Concen: 19.989 ug/l
RT: 3.051 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 84 Resp: 45268

Ion	Ratio	Lower	Upper
84	100		
49	130.5	104.9	157.3
51	40.5	31.8	47.8
86	66.5	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
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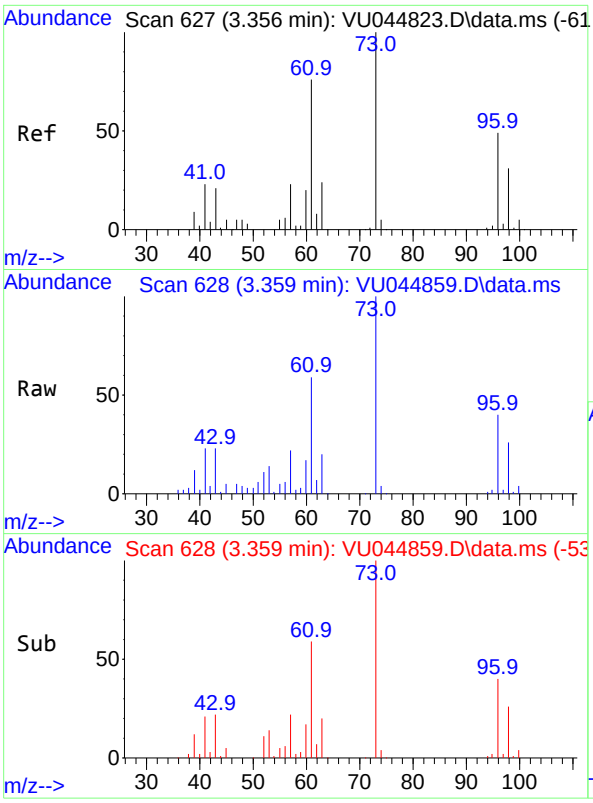
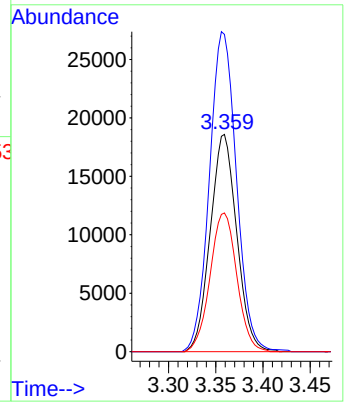
9/27/2021 11:03:15 AM

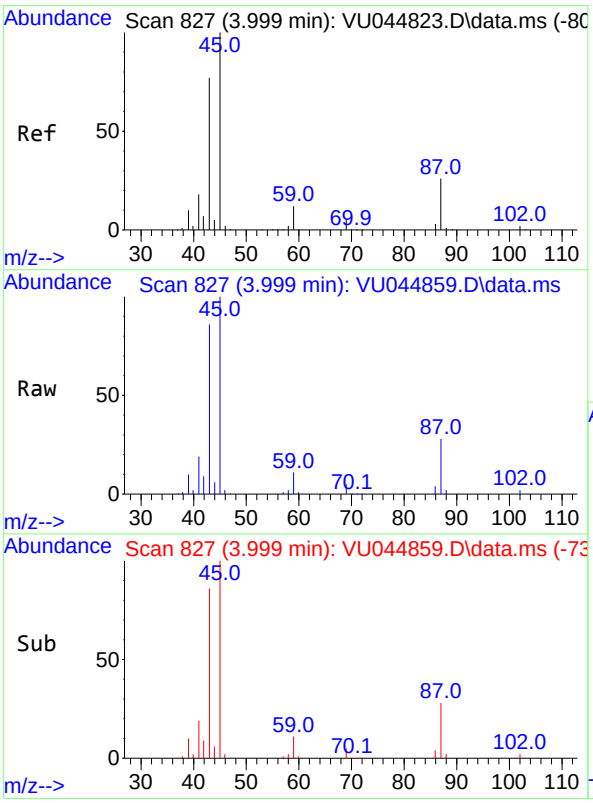


#21
trans-1,2-Dichloroethene
Concen: 19.800 ug/l
RT: 3.359 min Scan# 628
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 96 Resp: 36273

Ion	Ratio	Lower	Upper
96	100		
61	146.0	123.2	184.8
98	63.8	51.0	76.6

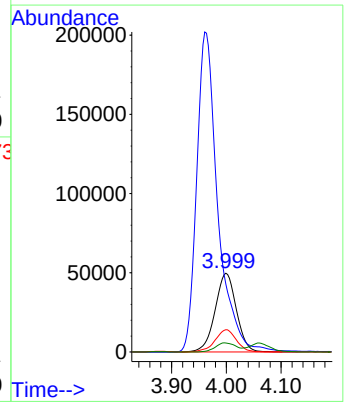




#22
Diisopropyl ether
Concen: 20.415 ug/l
RT: 3.999 min Scan# 827
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 45 Resp: 133963

Ion	Ratio	Lower	Upper
45	100		
43	84.4	62.3	93.5
87	28.3	21.0	31.4
59	11.4	9.5	14.3



Instrument :
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ClientSampleId :
VU0925WBS02

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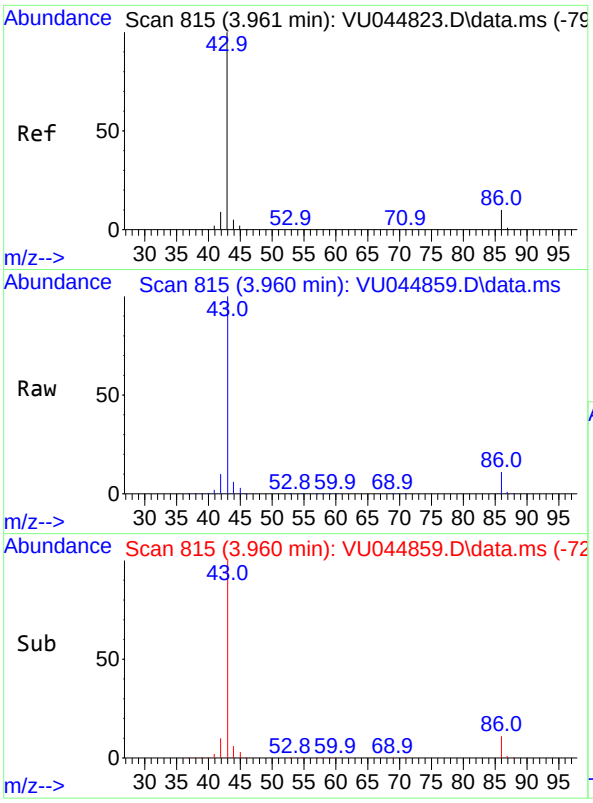
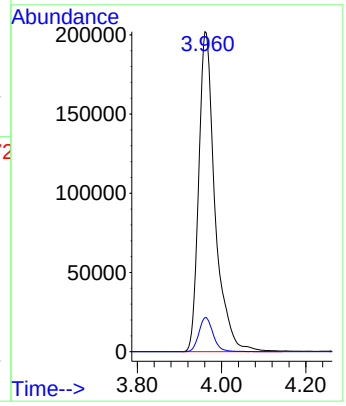
9/27/2021 11:03:15 AM

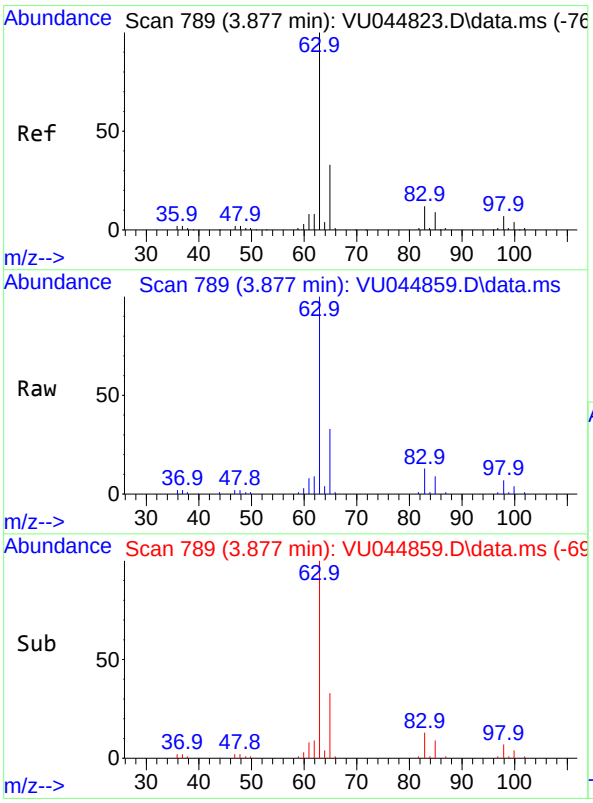


#23
Vinyl Acetate
Concen: 100.746 ug/l
RT: 3.960 min Scan# 815
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 542128

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.4

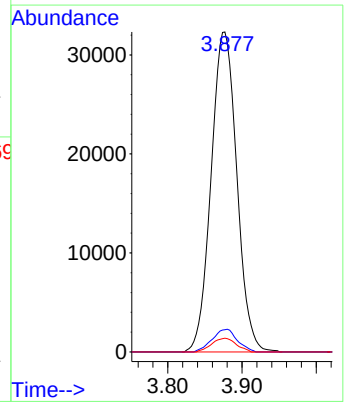




#24
1,1-Dichloroethane
Concen: 20.425 ug/l
RT: 3.877 min Scan# 789
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 63 Resp: 77793

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.4
100	4.3	2.1	6.3



Instrument :
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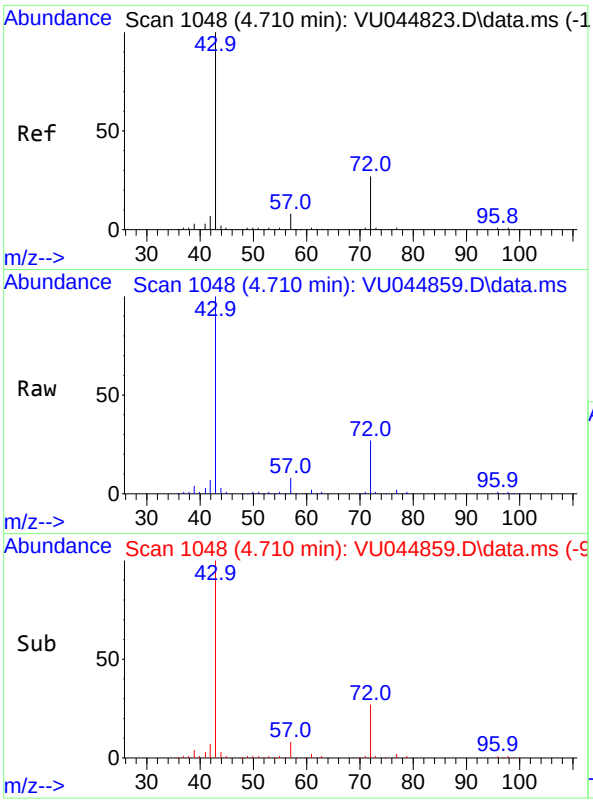
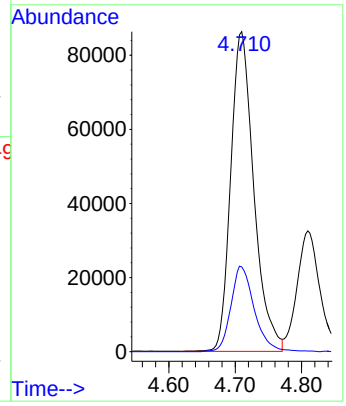
9/27/2021 11:03:15 AM

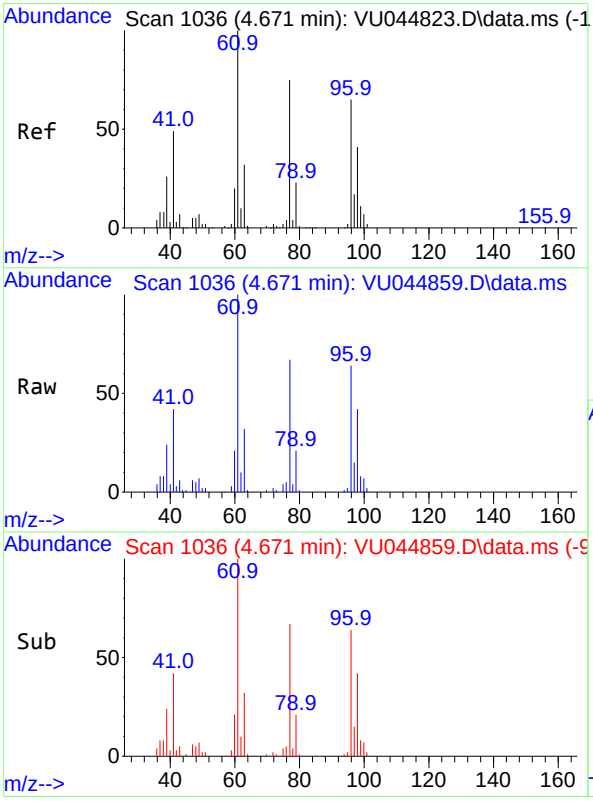


#25
2-Butanone
Concen: 98.285 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 208631

Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.3	31.9

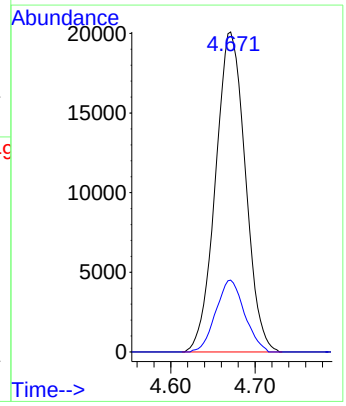




#26
2,2-Dichloropropane
Concen: 17.266 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 77 Resp: 49316

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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MMDadoda
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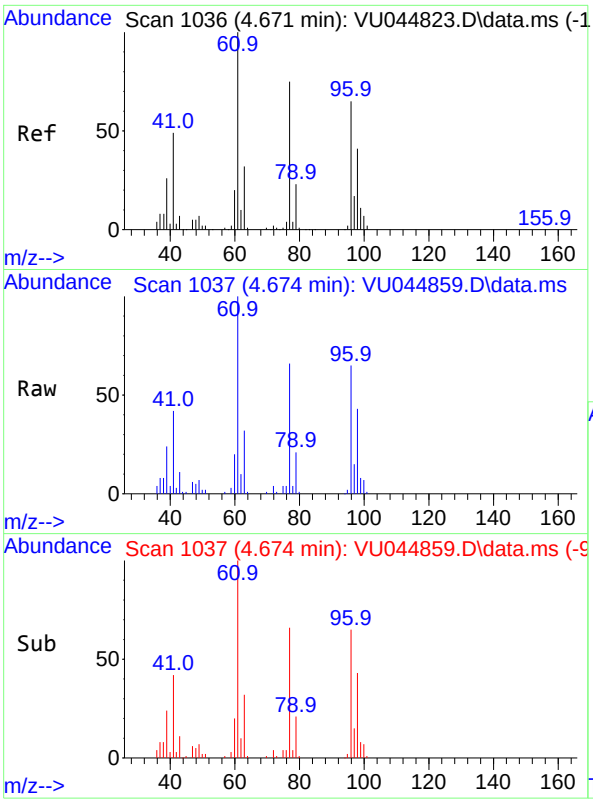
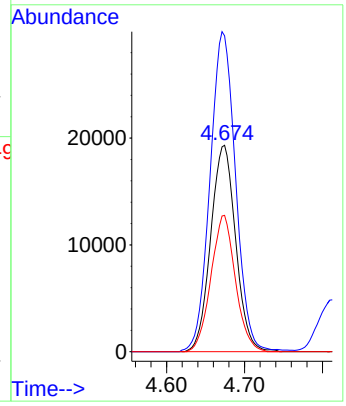
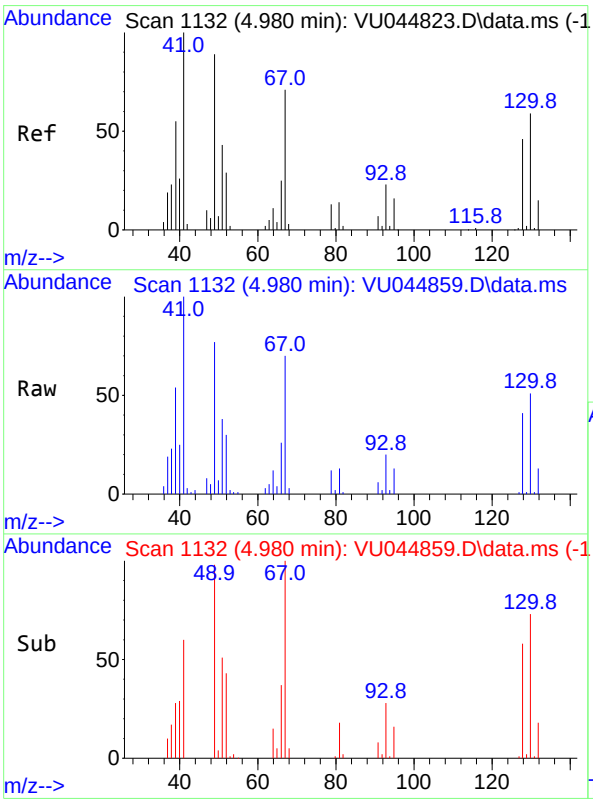


#27
cis-1,2-Dichloroethene
Concen: 19.366 ug/l
RT: 4.674 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 96 Resp: 43149

Ion	Ratio	Lower	Upper
96	100		
61	158.5	0.0	313.4
98	64.7	0.0	127.0

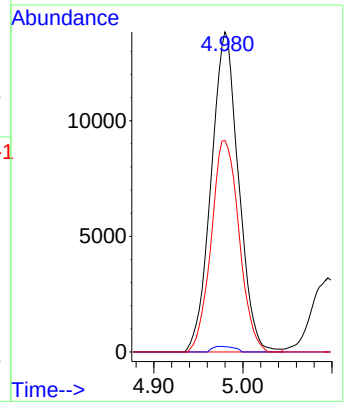




#28
Bromochloromethane
Concen: 16.347 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 49 Resp: 29588

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.2
130	67.1	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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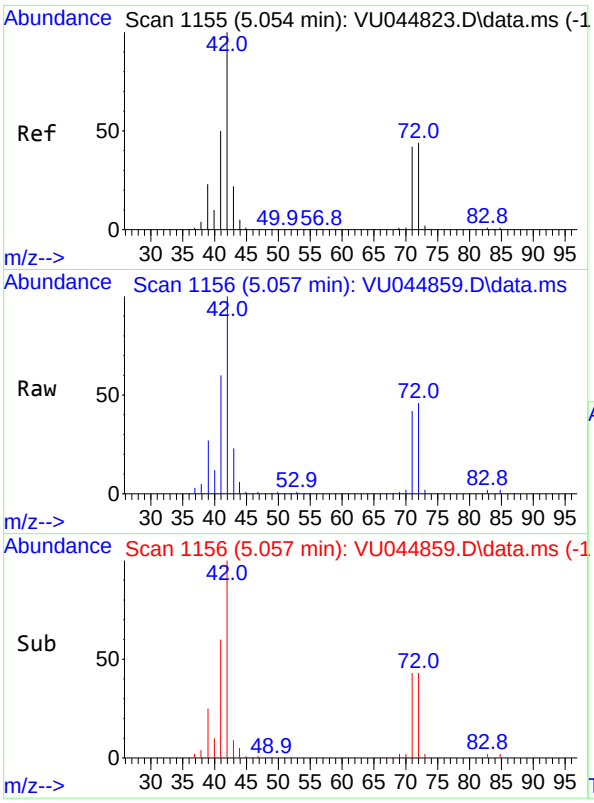
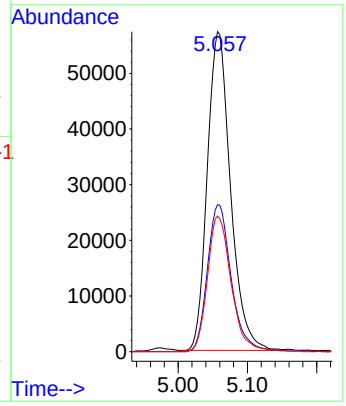
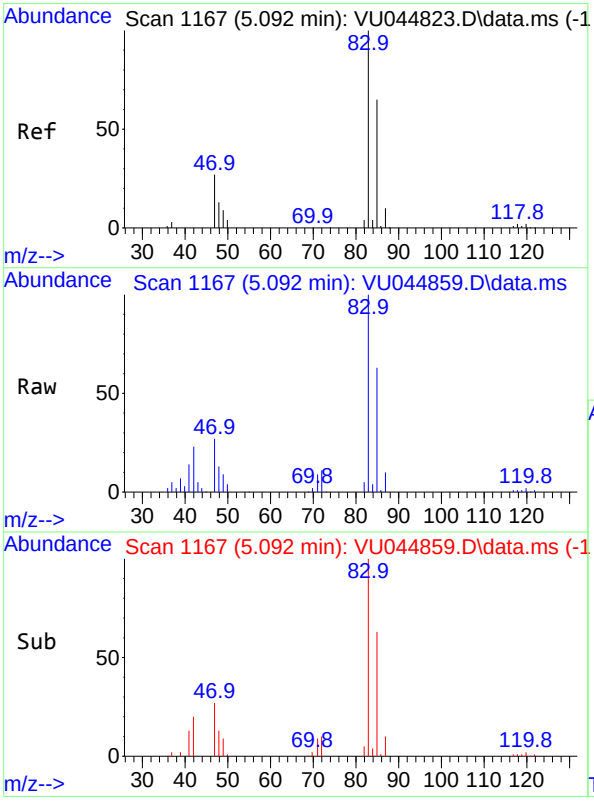


#29
Tetrahydrofuran
Concen: 99.780 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 42 Resp: 133250

Ion	Ratio	Lower	Upper
42	100		
72	47.2	36.2	54.4
71	43.4	34.1	51.1

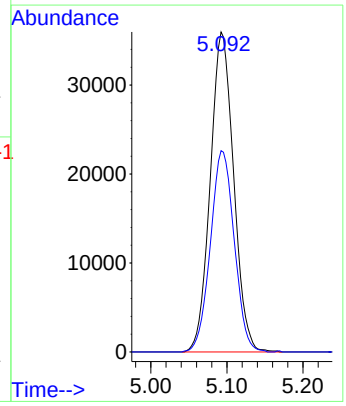




#30
Chloroform
Concen: 20.030 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 83 Resp: 76707

Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.1	78.1



Instrument :
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ClientSampleId :
VU0925WBS02

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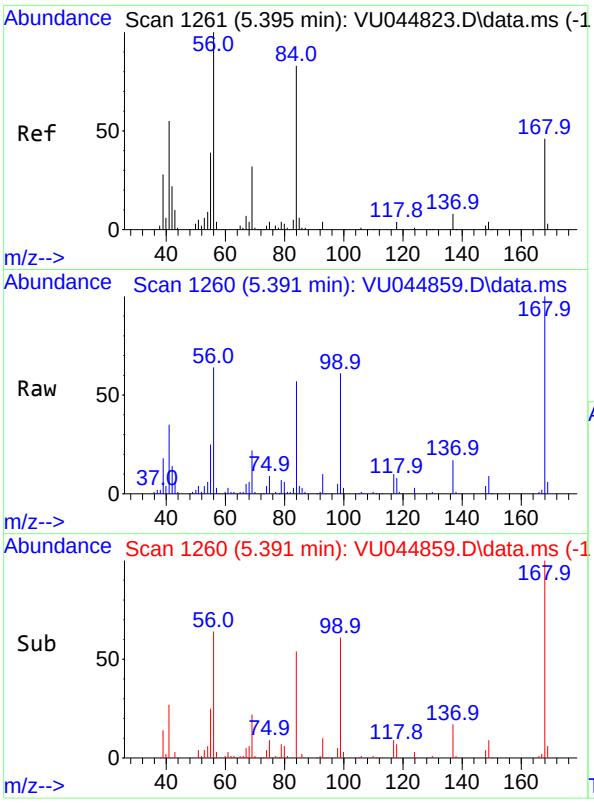
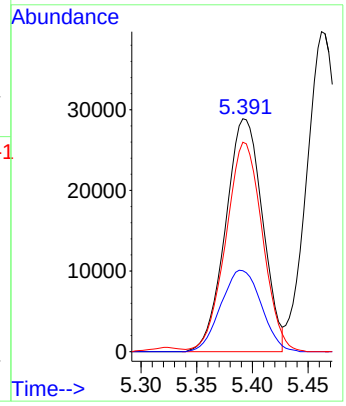
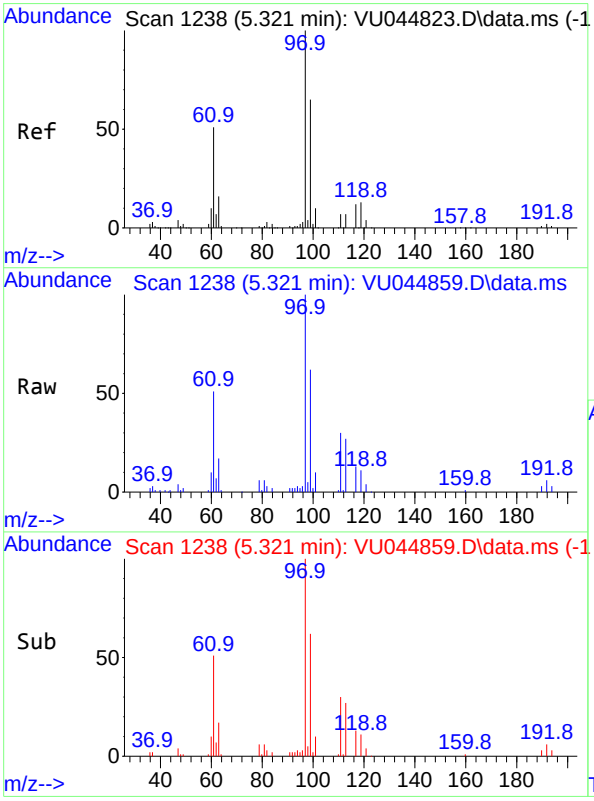


#31
Cyclohexane
Concen: 18.770 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 56 Resp: 66836

Ion	Ratio	Lower	Upper
56	100		
69	34.7	25.2	37.8
84	88.8	66.4	99.6

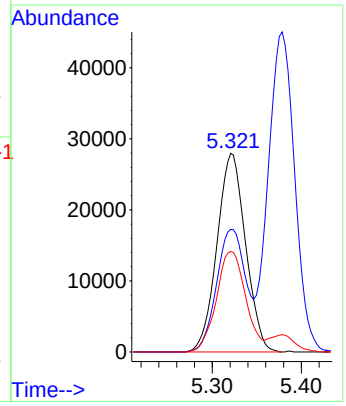




#32
1,1,1-Trichloroethane
Concen: 20.128 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 97 Resp: 62282

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.9	76.3
61	52.1	40.7	61.1



Instrument :
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ClientSampleId :
VU0925WBS02

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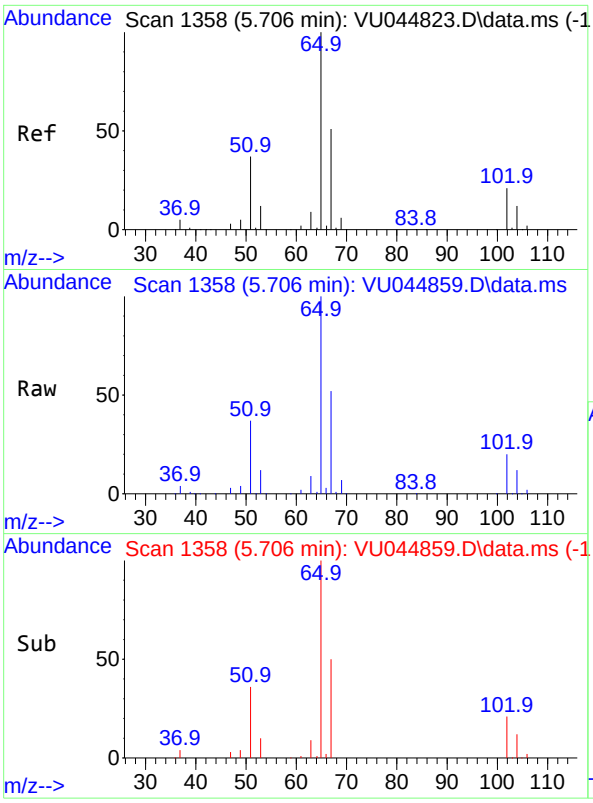
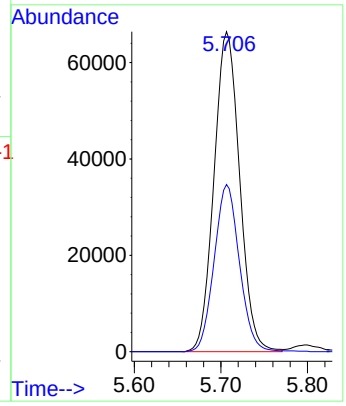
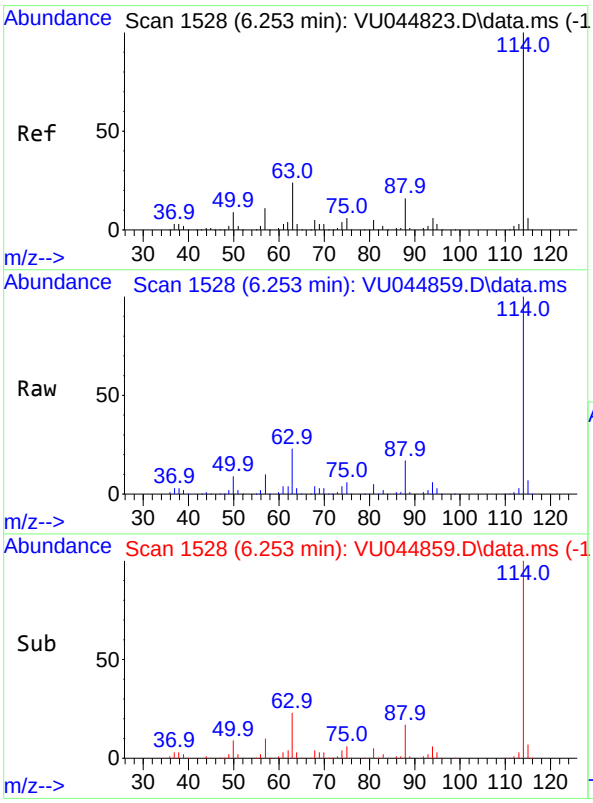


#33
1,2-Dichloroethane-d4
Concen: 55.088 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 65 Resp: 136629

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.8

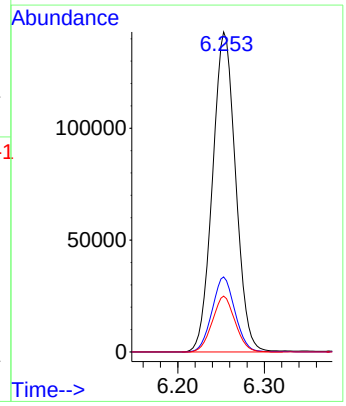




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:114 Resp: 265456

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	47.8
88	17.5	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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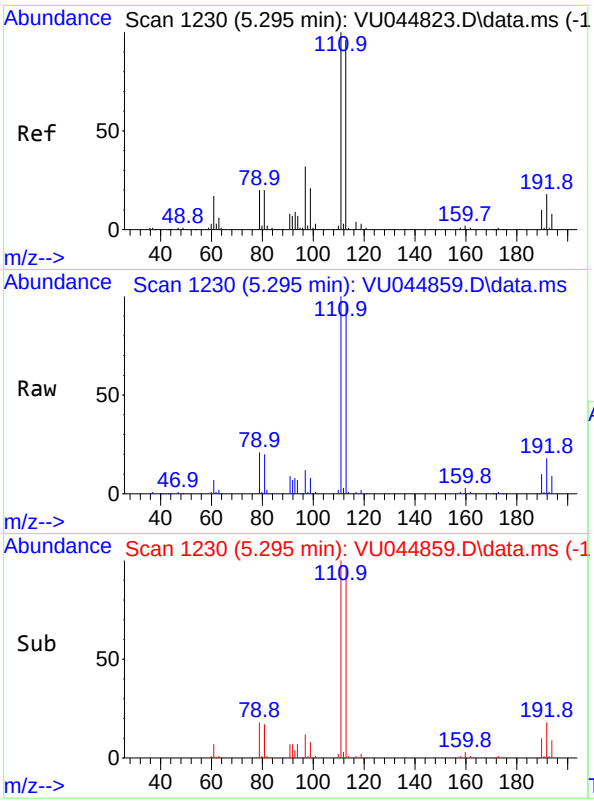
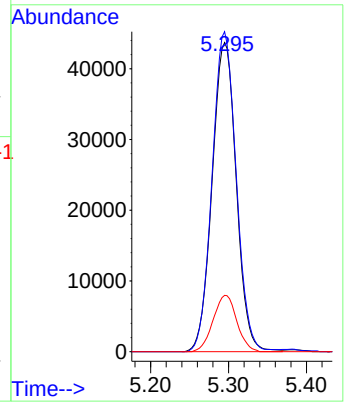
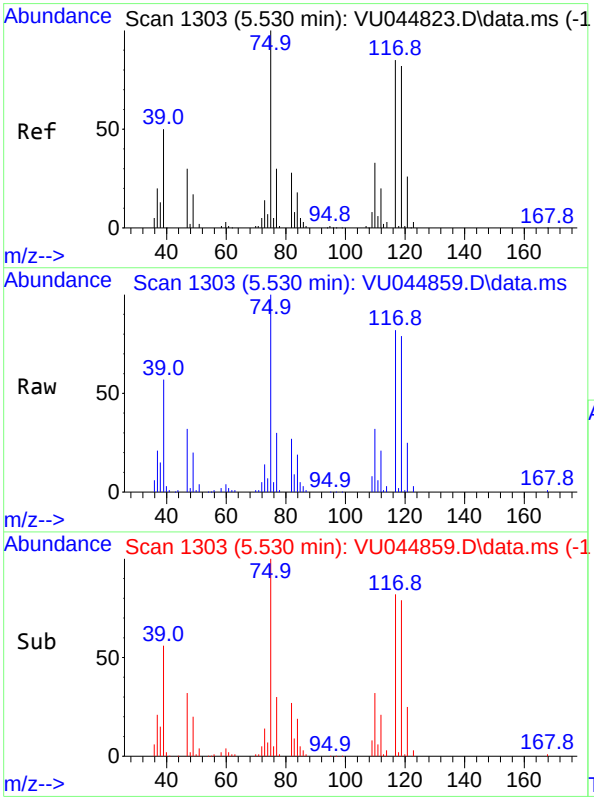


#35
Dibromofluoromethane
Concen: 51.725 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:113 Resp: 94195

Ion	Ratio	Lower	Upper
113	100		
111	103.0	84.1	126.1
192	17.9	14.8	22.2

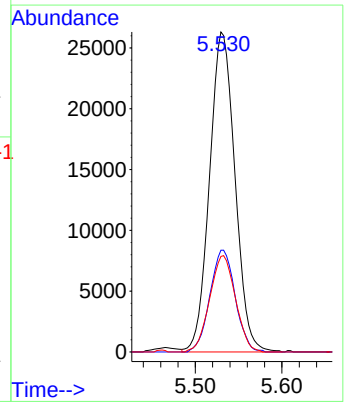




#36
1,1-Dichloropropene
Concen: 19.050 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 75 Resp: 53656

Ion	Ratio	Lower	Upper
75	100		
110	31.5	16.3	48.9
77	30.4	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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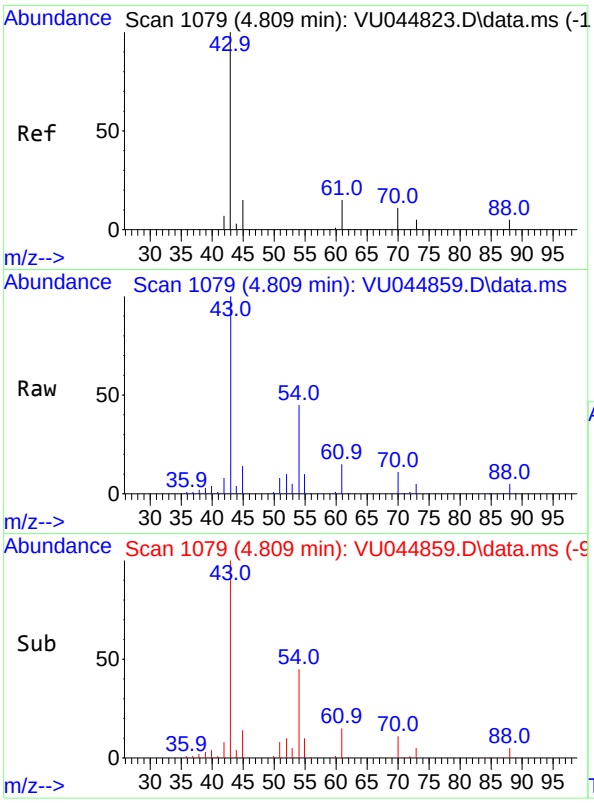
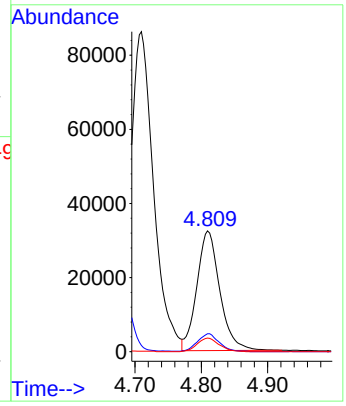
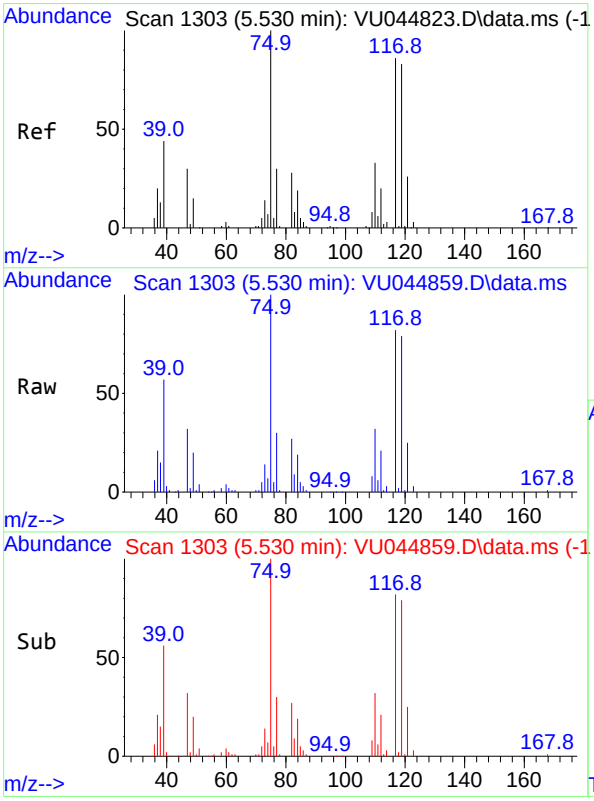


#37
Ethyl Acetate
Concen: 18.834 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 77833

Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.9	16.3
70	10.8	8.2	12.4

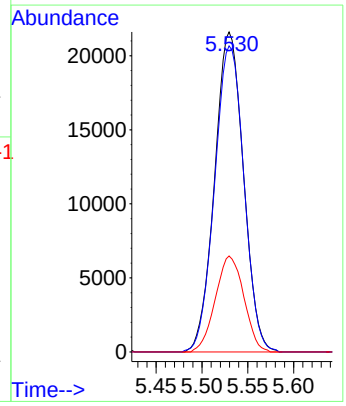




#38
Carbon Tetrachloride
Concen: 18.745 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:117 Resp: 47201

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.4	116.2
121	30.0	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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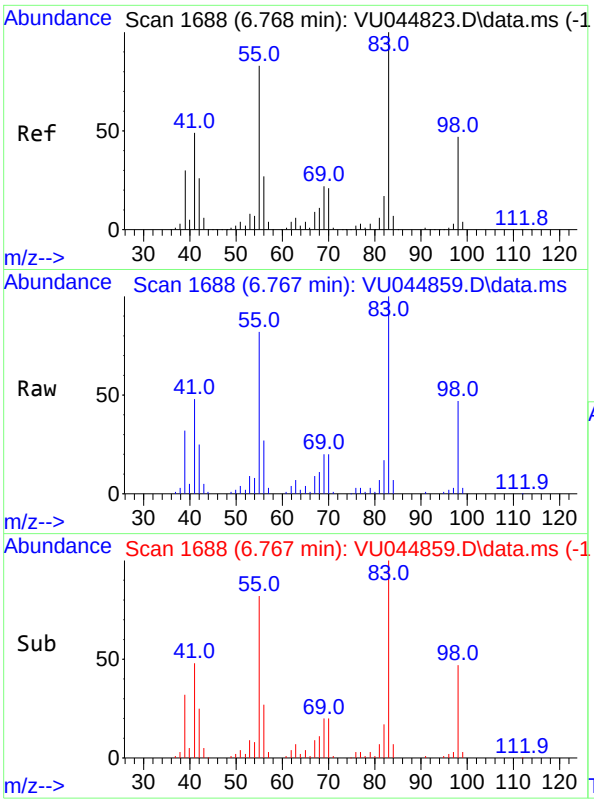
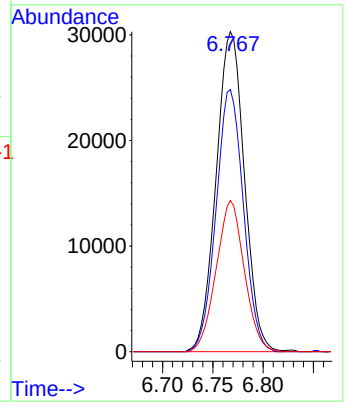
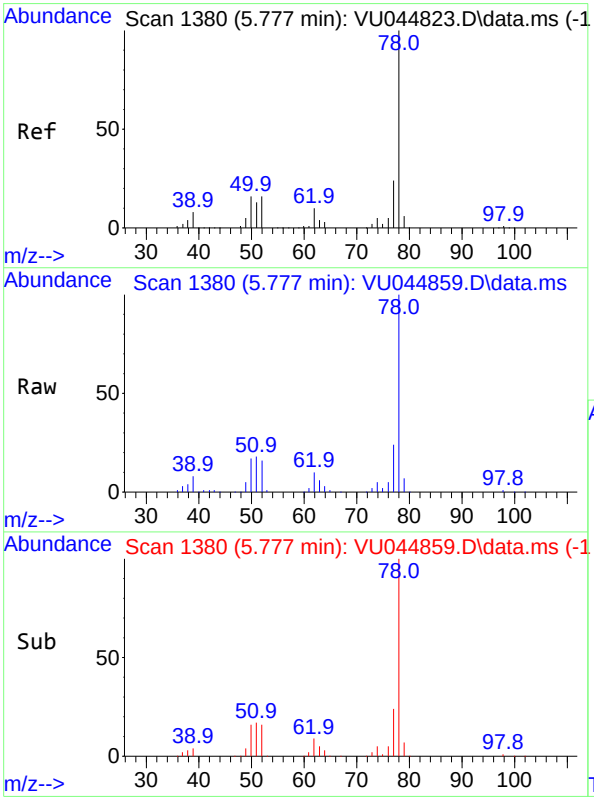


#39
Methylcyclohexane
Concen: 18.616 ug/l
RT: 6.767 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 83 Resp: 59303

Ion	Ratio	Lower	Upper
83	100		
55	81.9	66.2	99.4
98	47.3	37.5	56.3

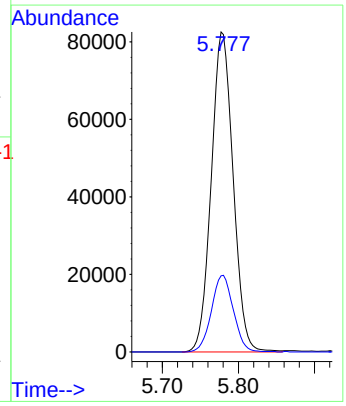




#40
Benzene
Concen: 19.190 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 78 Resp: 164784

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.1	28.7



Instrument :
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ClientSampleId :
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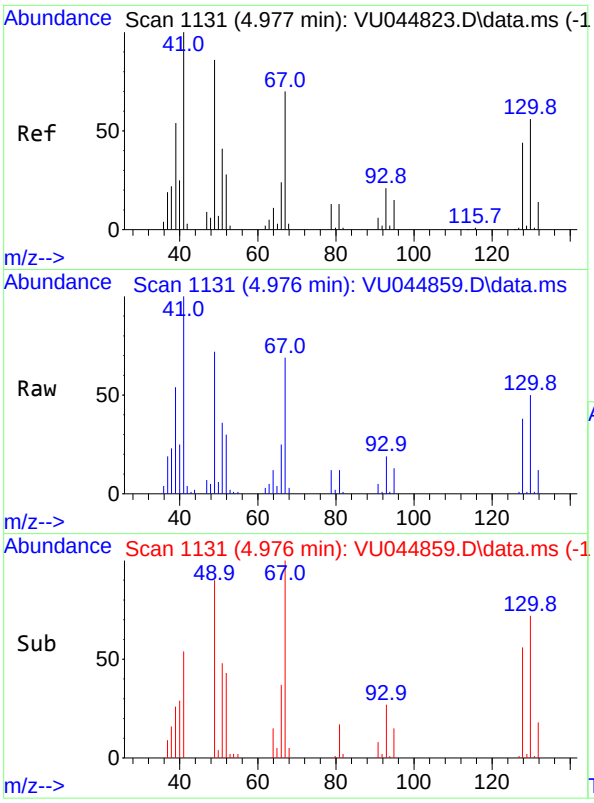
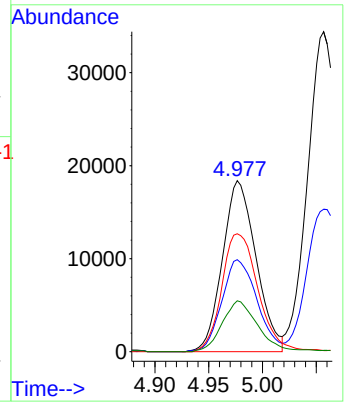
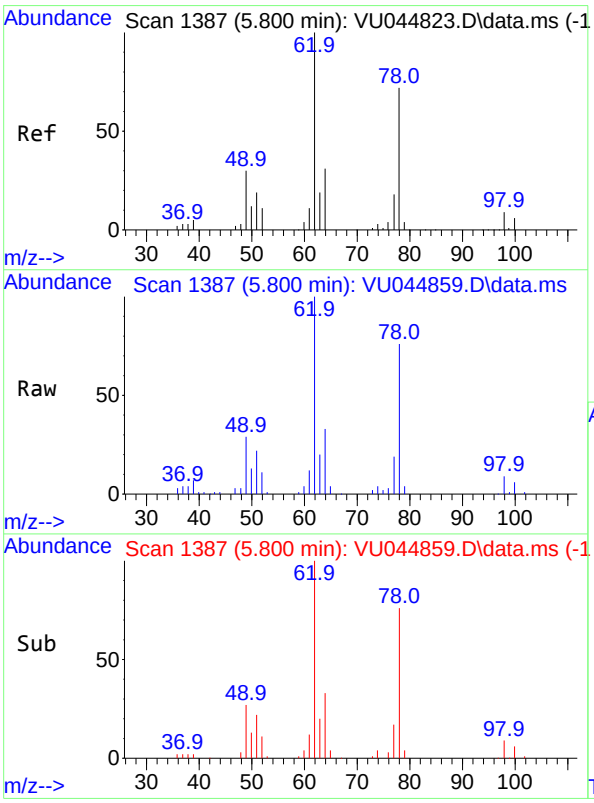


#41
Methacrylonitrile
Concen: 19.393 ug/l
RT: 4.976 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 41 Resp: 40005

Ion	Ratio	Lower	Upper
41	100		
39	56.5	44.4	66.6
67	74.7	58.1	87.1
52	31.7	23.8	35.8

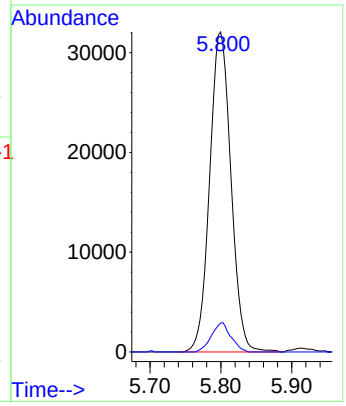




#42
1,2-Dichloroethane
Concen: 19.824 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 62 Resp: 66970

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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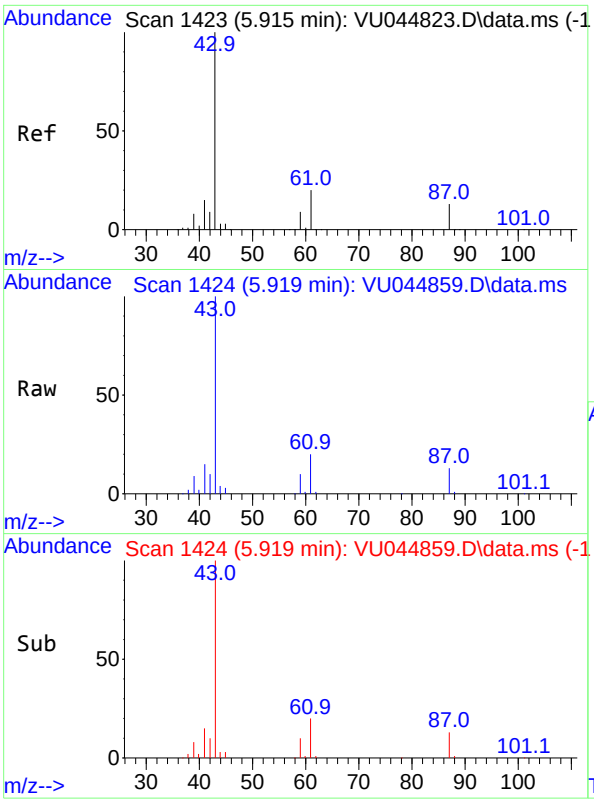
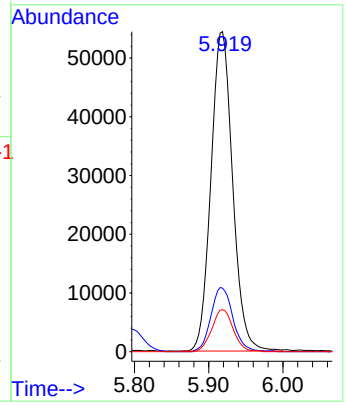
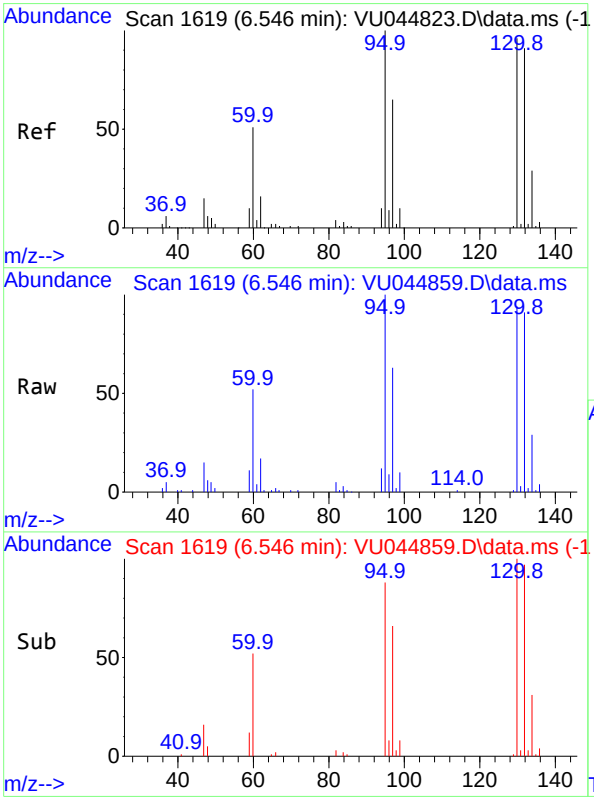


#43
Isopropyl Acetate
Concen: 19.069 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 110253

Ion	Ratio	Lower	Upper
43	100		
61	20.4	16.1	24.1
87	13.0	10.3	15.5

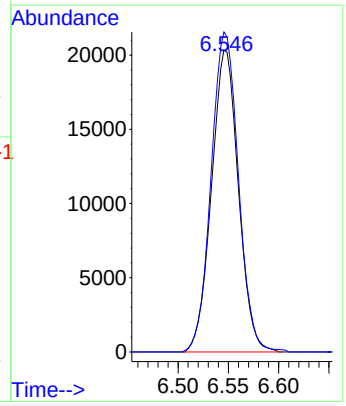




#44
Trichloroethene
Concen: 18.362 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:130 Resp: 37896

Ion	Ratio	Lower	Upper
130	100		
95	105.9	0.0	209.0



Instrument :
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ClientSampleId :
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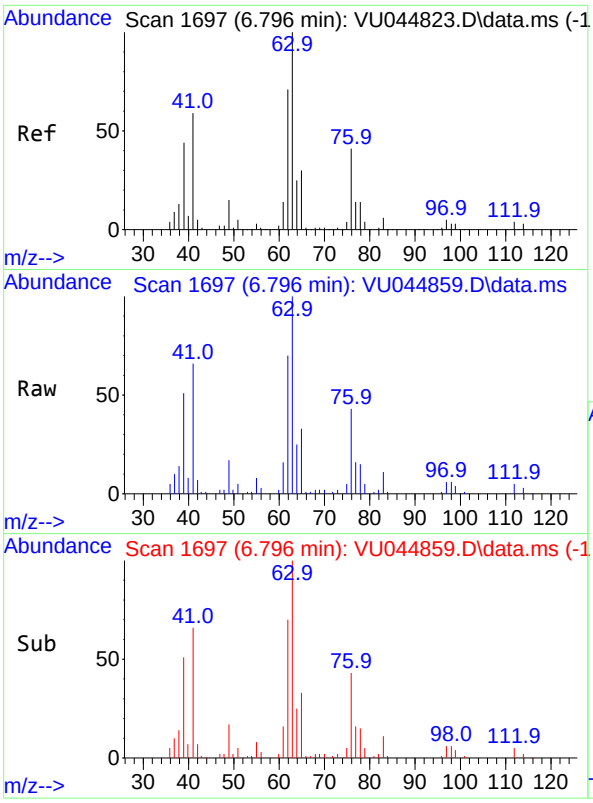
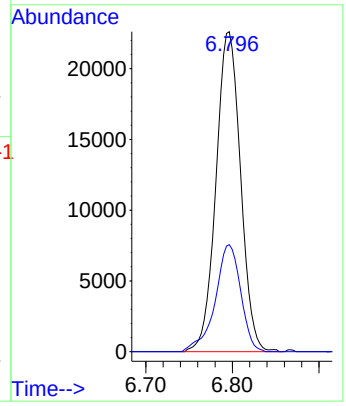
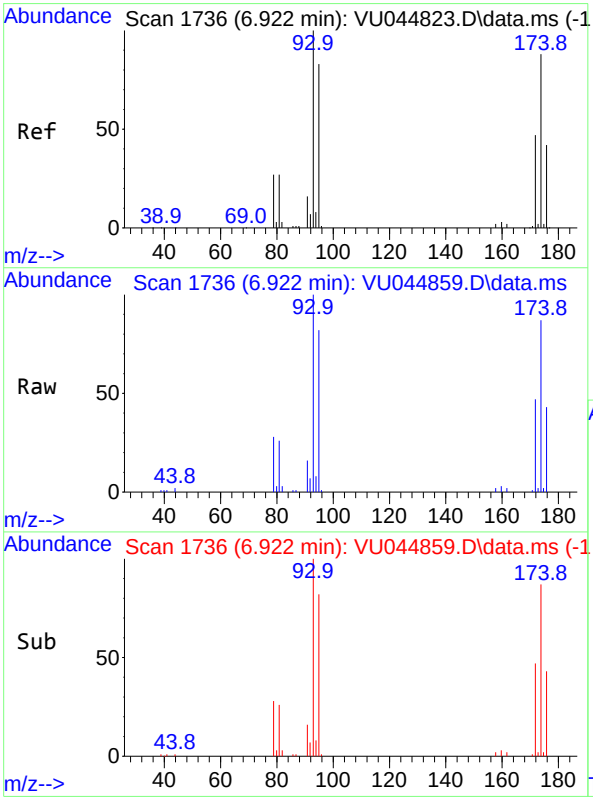


#45
1,2-Dichloropropane
Concen: 19.138 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 63 Resp: 44477

Ion	Ratio	Lower	Upper
63	100		
65	33.5	23.9	35.9

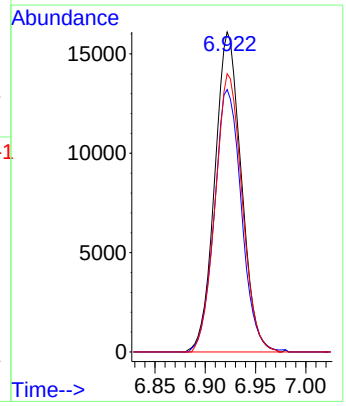




#46
Dibromomethane
Concen: 19.119 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 93 Resp: 29442

Ion	Ratio	Lower	Upper
93	100		
95	84.3	65.6	98.4
174	88.3	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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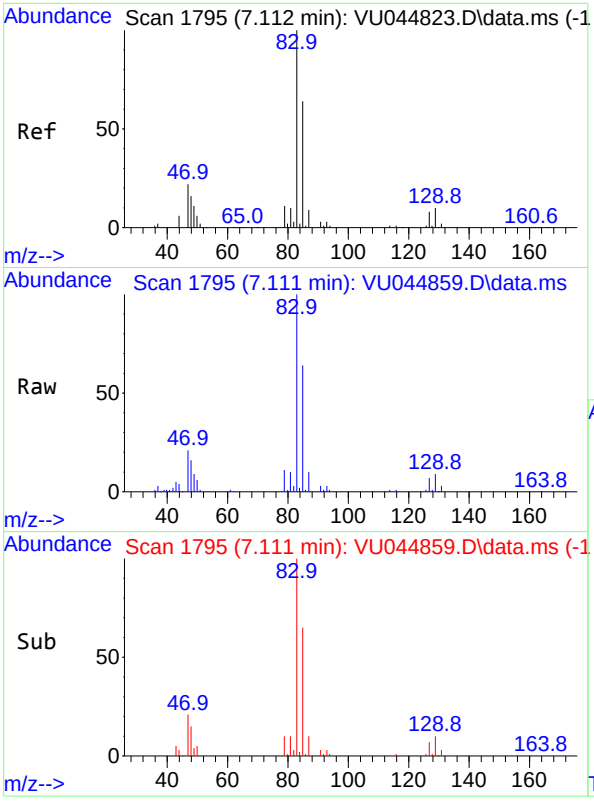
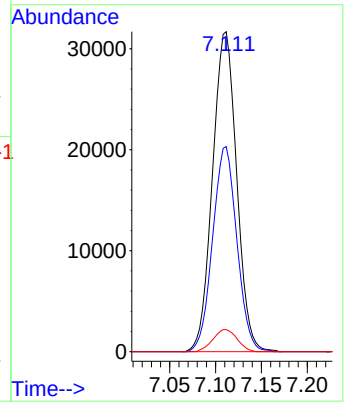
9/27/2021 11:03:15 AM

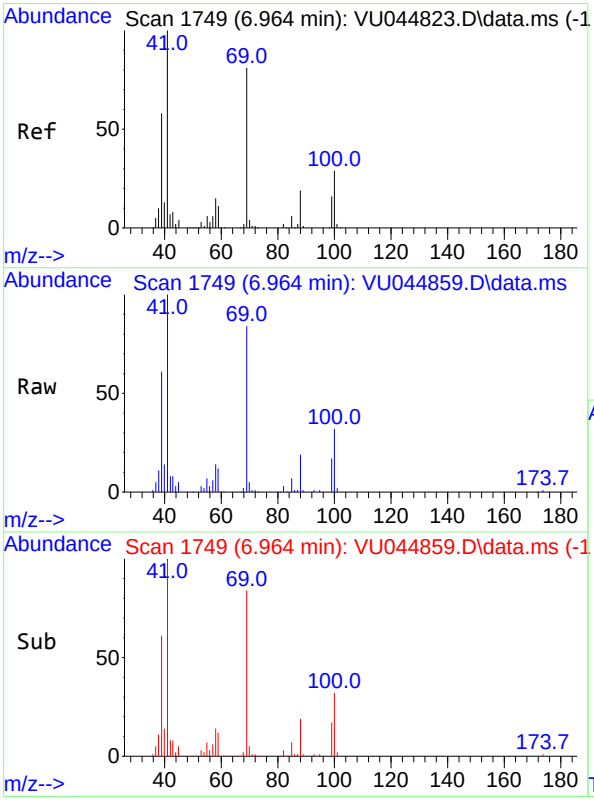


#47
Bromodichloromethane
Concen: 19.140 ug/l
RT: 7.111 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 83 Resp: 58139

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.6	77.4
127	6.9	6.2	9.4

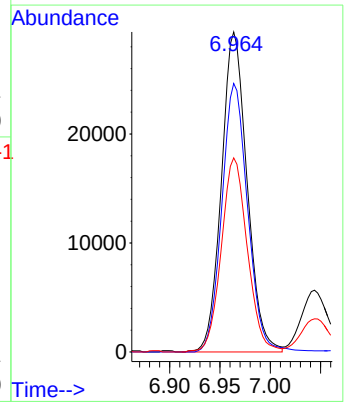




#48
Methyl methacrylate
Concen: 19.087 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 41 Resp: 52089

Ion	Ratio	Lower	Upper
41	100		
69	84.8	65.6	98.4
39	61.4	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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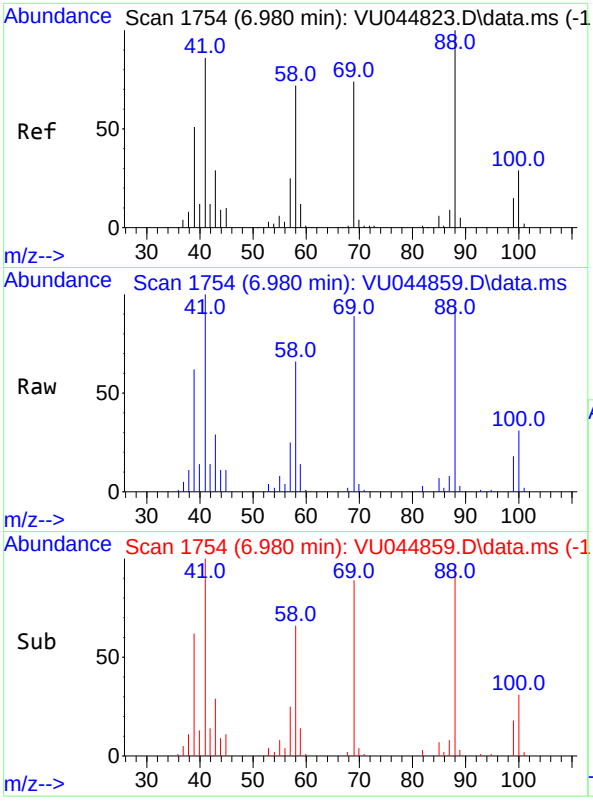
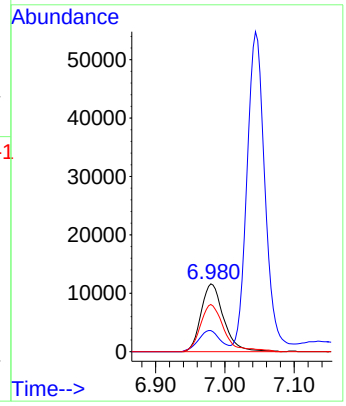
9/27/2021 11:03:15 AM

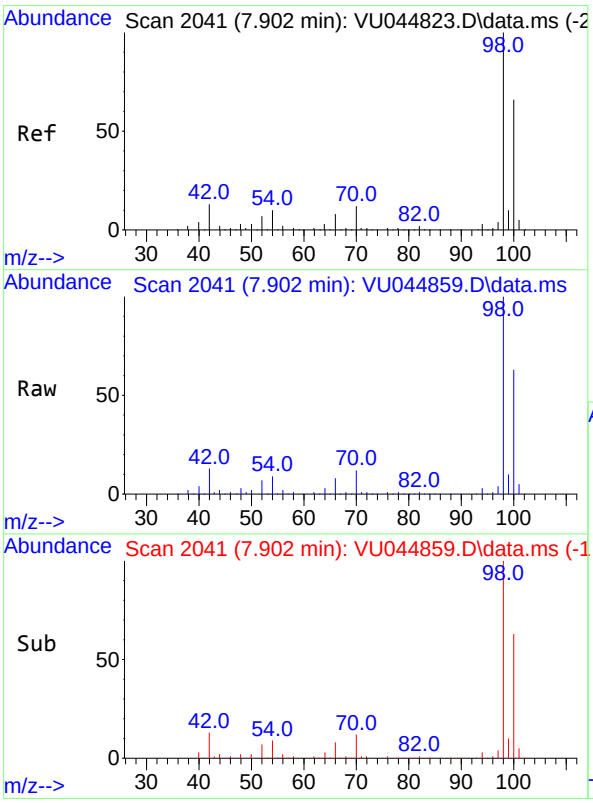


#49
1,4-Dioxane
Concen: 377.886 ug/l
RT: 6.980 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 88 Resp: 26356

Ion	Ratio	Lower	Upper
88	100		
43	31.0	25.8	38.6
58	72.8	61.3	91.9

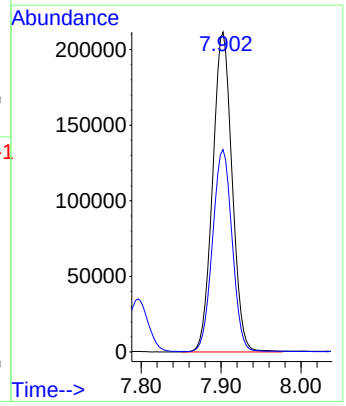




#50
Toluene-d8
Concen: 51.968 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 98 Resp: 357425

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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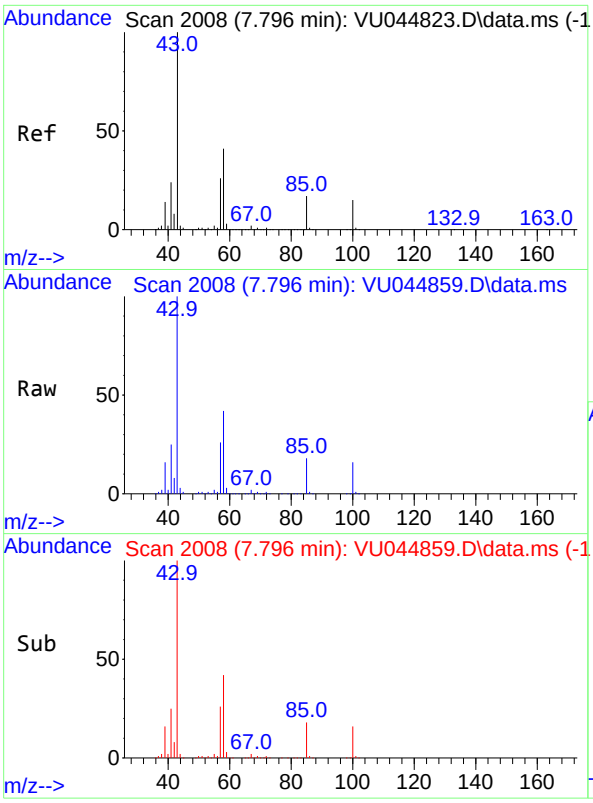
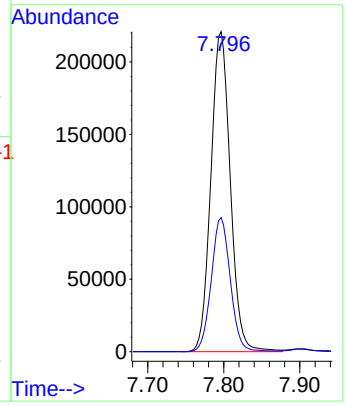
9/27/2021 11:03:15 AM

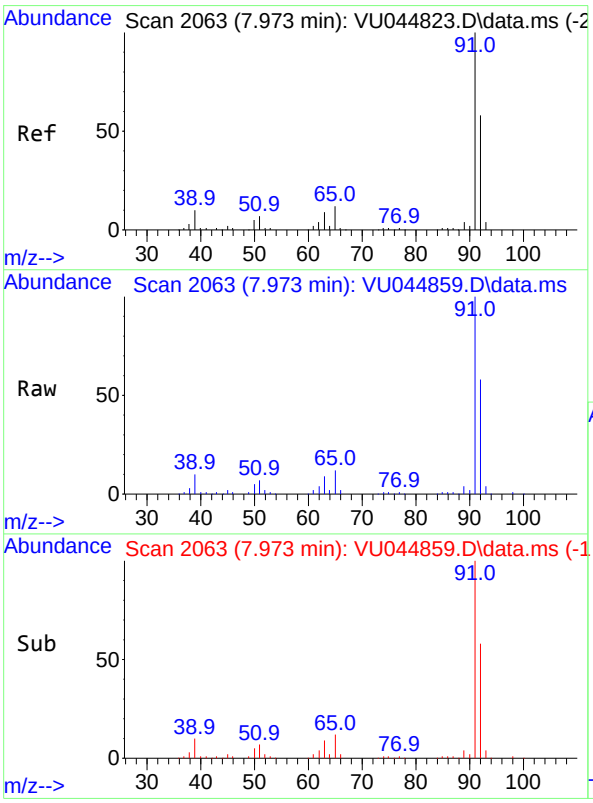


#51
4-Methyl-2-Pentanone
Concen: 95.081 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 391801

Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.4	48.6

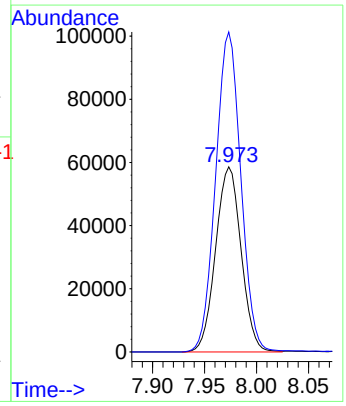




#52
Toluene
Concen: 19.485 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 92 Resp: 100036

Ion	Ratio	Lower	Upper
92	100		
91	171.6	136.9	205.3



Instrument :
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ClientSampleId :
VU0925WBS02

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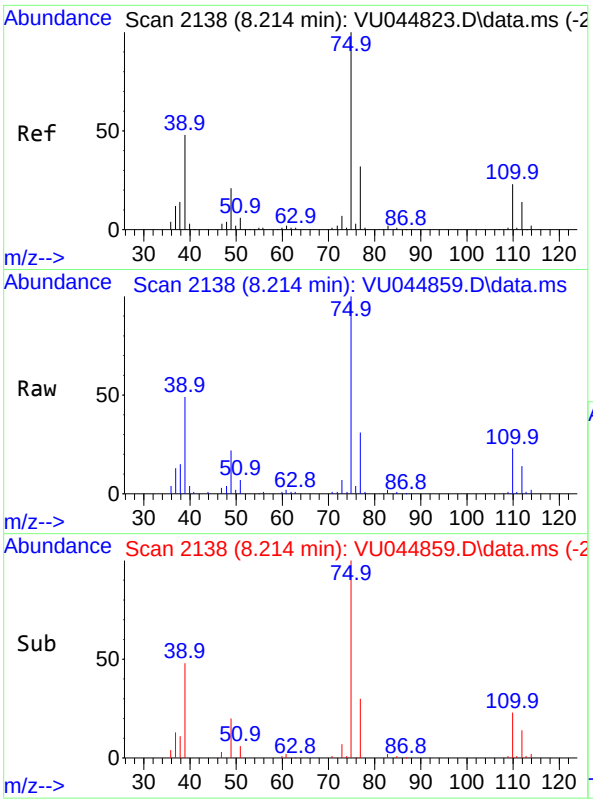
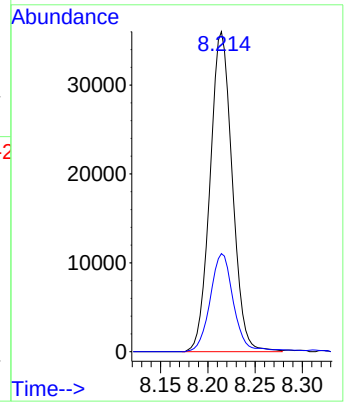
9/27/2021 11:03:15 AM

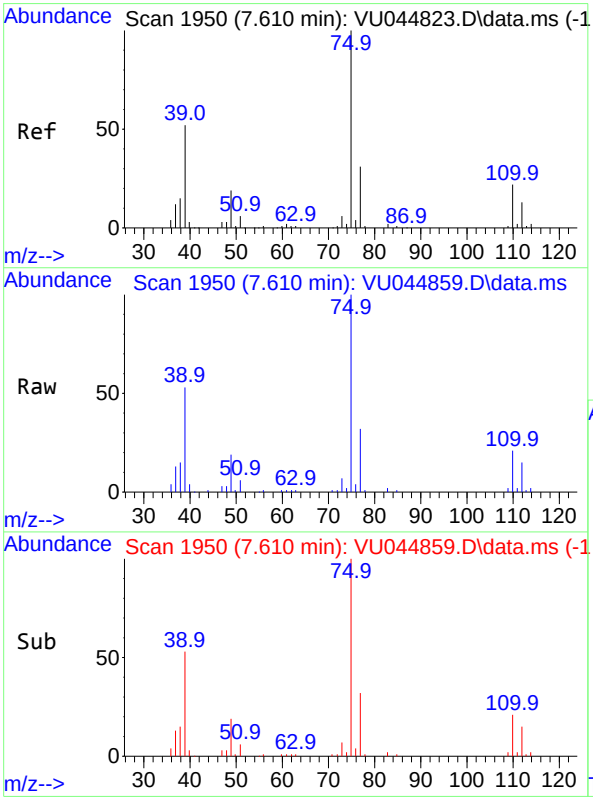


#53
t-1,3-Dichloropropene
Concen: 18.595 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 75 Resp: 58846

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.6	38.4

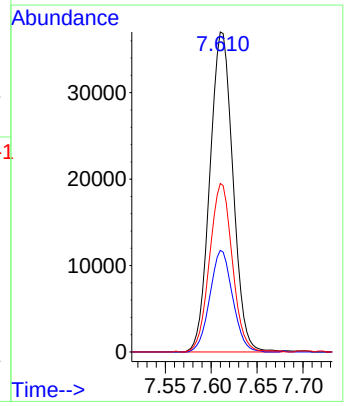




#54
cis-1,3-Dichloropropene
Concen: 18.880 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 75 Resp: 64708

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.6
39	52.6	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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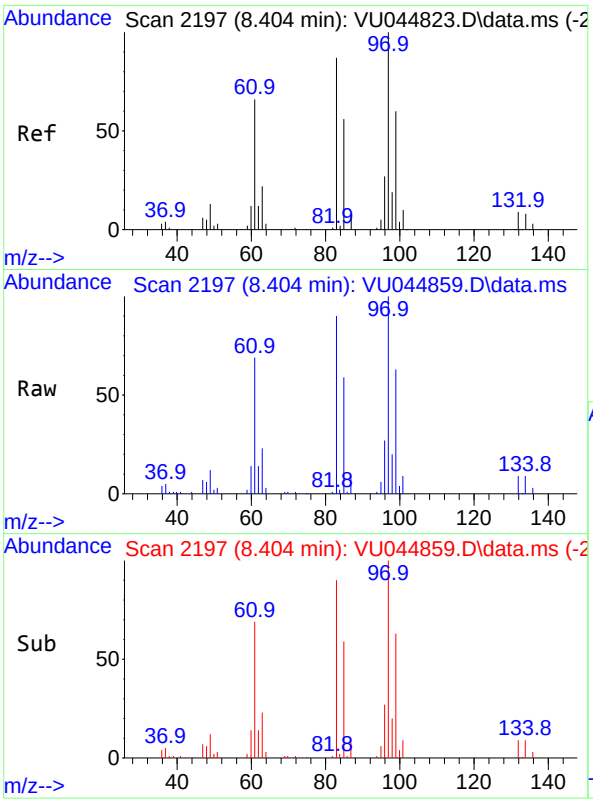
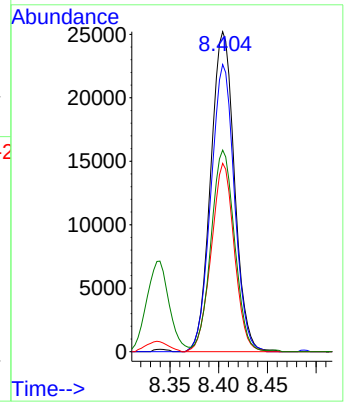
9/27/2021 11:03:15 AM

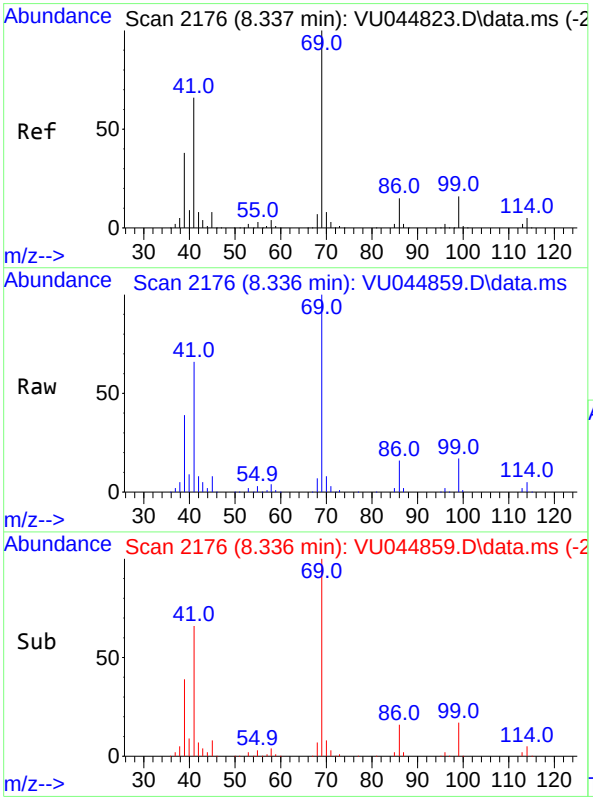


#55
1,1,2-Trichloroethane
Concen: 19.447 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 97 Resp: 42685

Ion	Ratio	Lower	Upper
97	100		
83	89.7	69.7	104.5
85	58.8	44.8	67.2
99	63.0	49.3	73.9

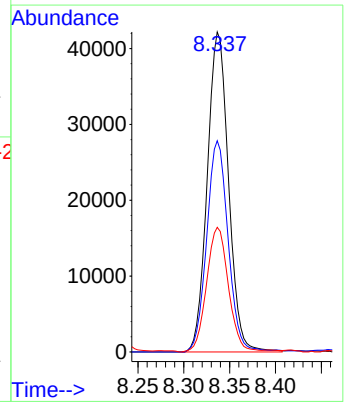




#56
Ethyl methacrylate
Concen: 18.627 ug/l
RT: 8.336 min Scan# 2176
Delta R.T. -0.001 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 69 Resp: 68021

Ion	Ratio	Lower	Upper
69	100		
41	66.4	53.5	80.3
39	39.9	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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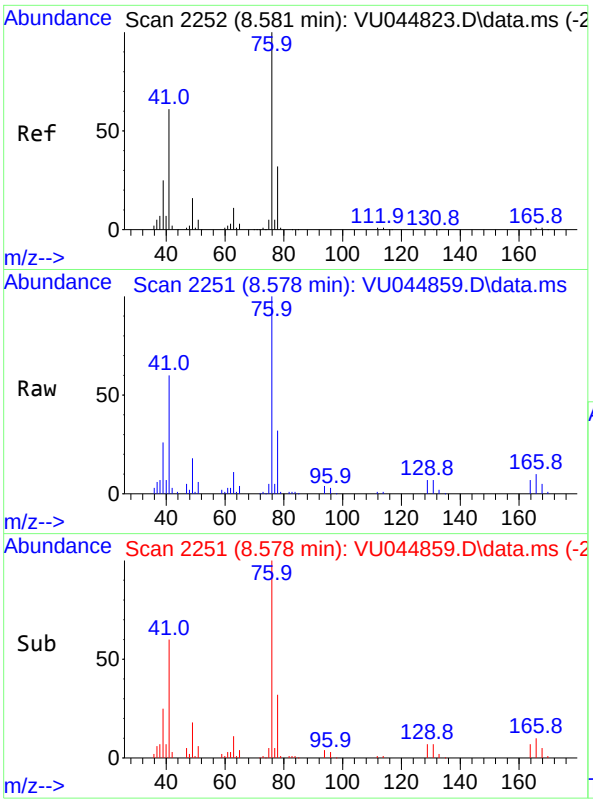
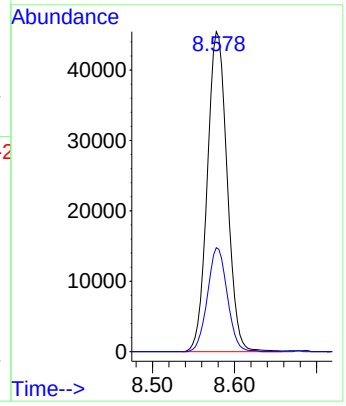
9/27/2021 11:03:15 AM

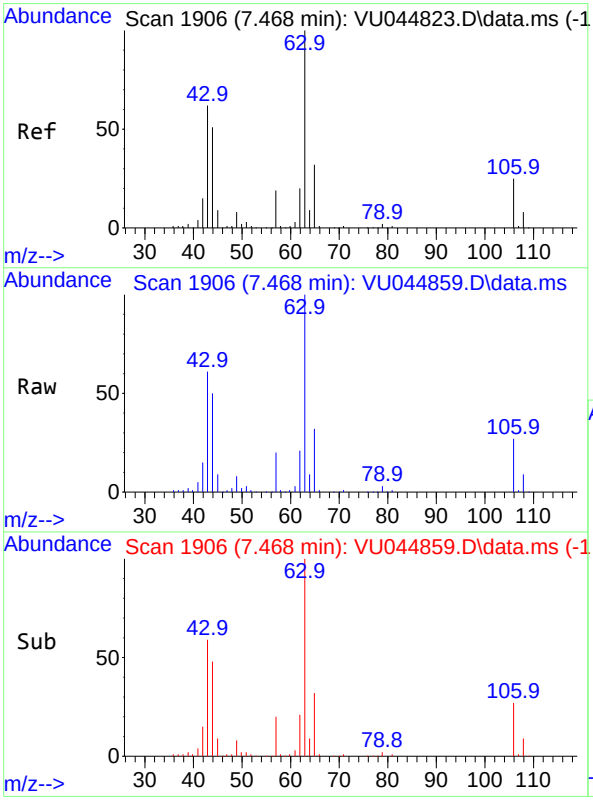


#57
1,3-Dichloropropane
Concen: 19.512 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 76 Resp: 76265

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.7	38.5

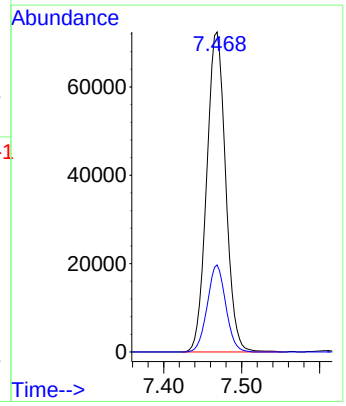




#58
2-Chloroethyl Vinyl ether
Concen: 141.239 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 63 Resp: 122344

Ion	Ratio	Lower	Upper
63	100		
106	26.4	20.5	30.7



Instrument :
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ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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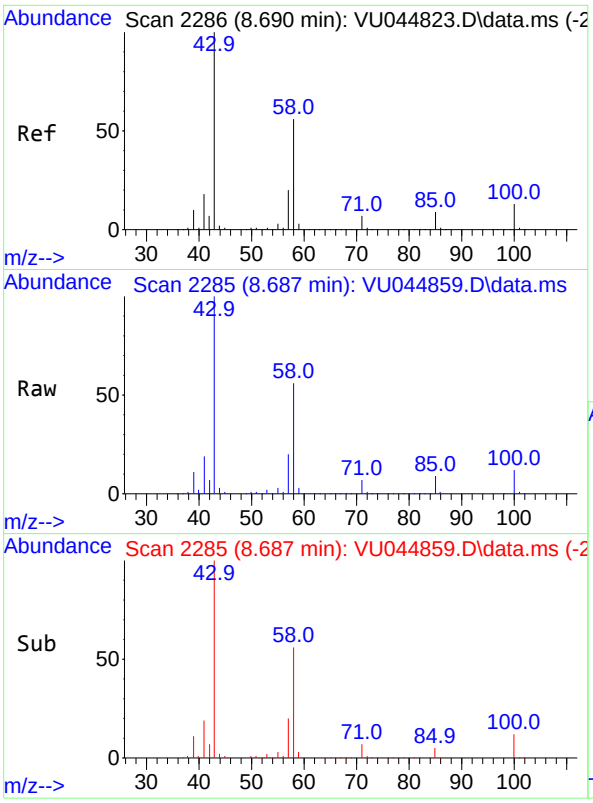
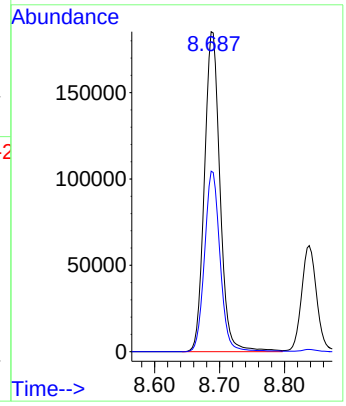
9/27/2021 11:03:15 AM

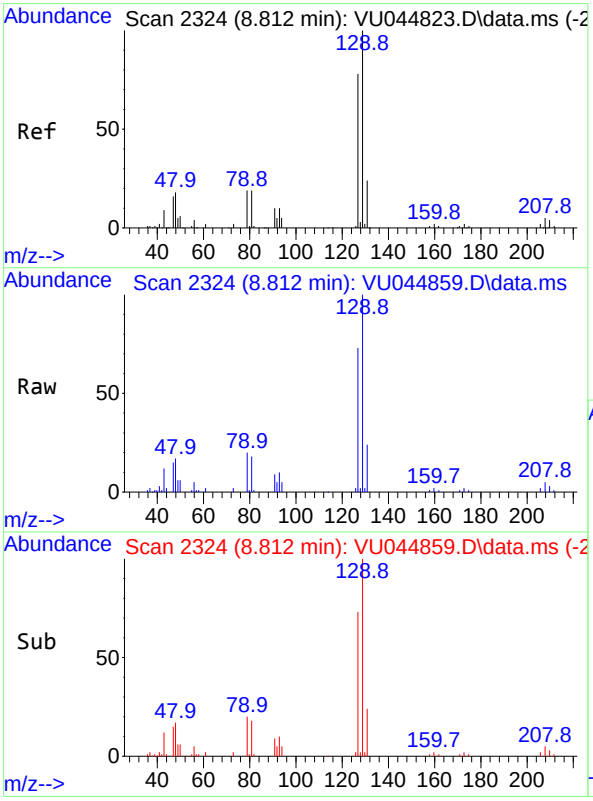


#59
2-Hexanone
Concen: 93.785 ug/l
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 310205

Ion	Ratio	Lower	Upper
43	100		
58	56.2	28.0	84.0

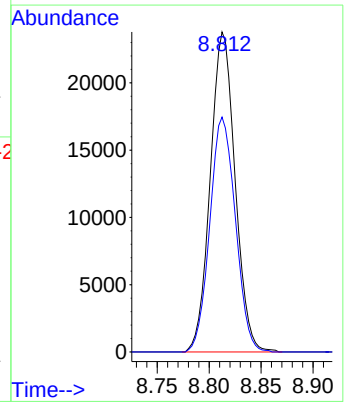




#60
Dibromochloromethane
Concen: 18.781 ug/l
RT: 8.812 min Scan# 2324
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:129 Resp: 39477

Ion	Ratio	Lower	Upper
129	100		
127	75.7	39.0	117.0



Instrument :
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ClientSampleId :
VU0925WBS02

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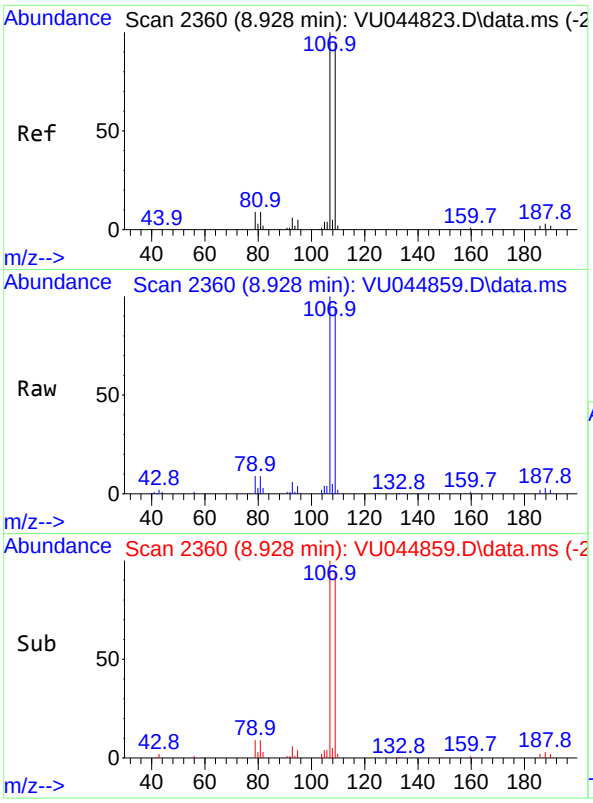
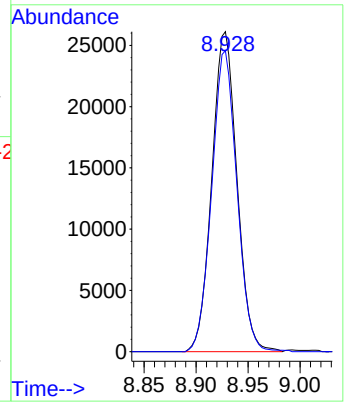
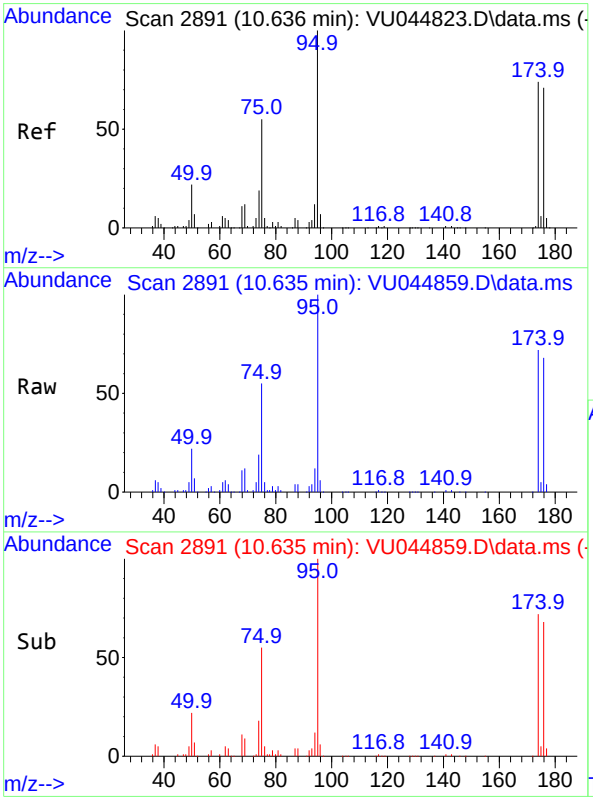


#61
1,2-Dibromoethane
Concen: 19.035 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:107 Resp: 43872

Ion	Ratio	Lower	Upper
107	100		
109	94.5	74.8	112.2

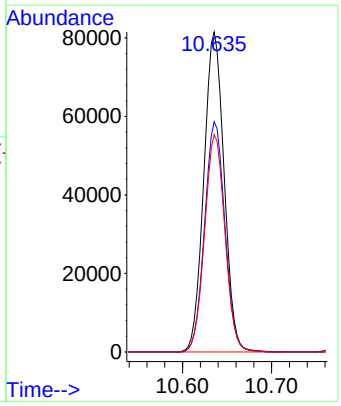




#62
4-Bromofluorobenzene
Concen: 50.262 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 95 Resp: 128397

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	146.6
176	68.1	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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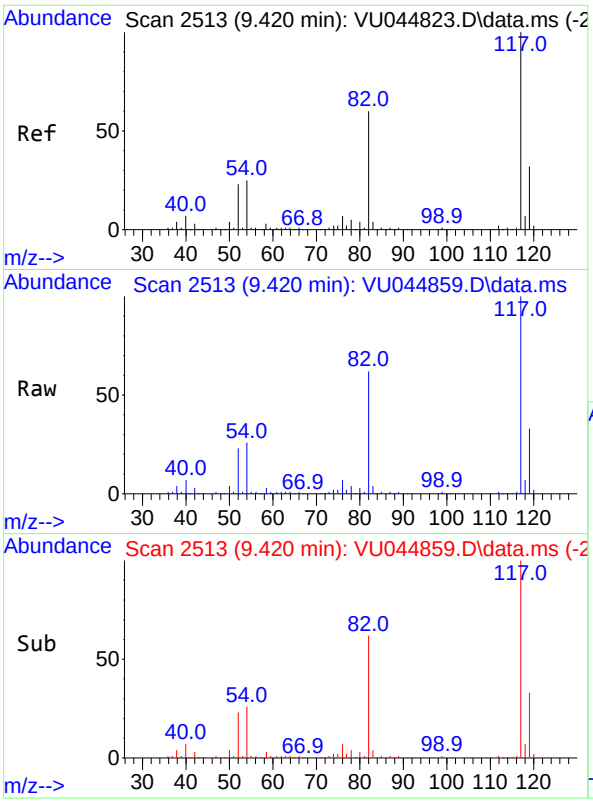
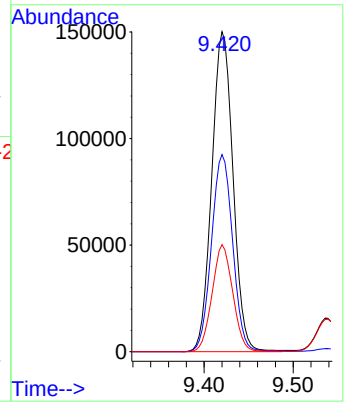
9/27/2021 11:03:15 AM

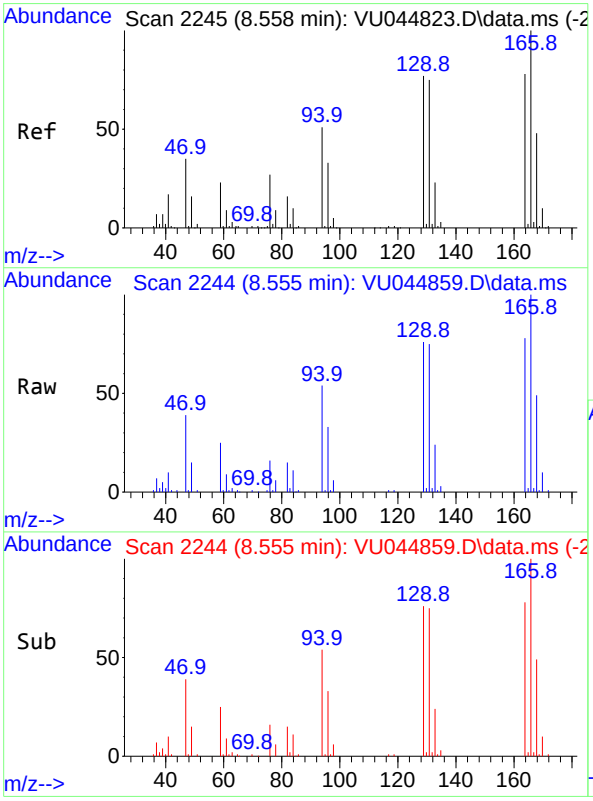


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:117 Resp: 248011

Ion	Ratio	Lower	Upper
117	100		
82	61.6	47.8	71.8
119	33.5	25.8	38.6

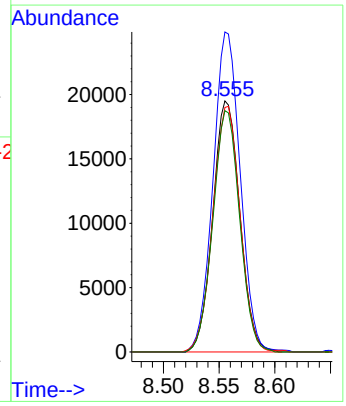




#64
Tetrachloroethene
Concen: 19.649 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:164 Resp: 33032

Ion	Ratio	Lower	Upper
164	100		
166	127.4	102.8	154.2
129	97.4	79.4	119.2
131	96.1	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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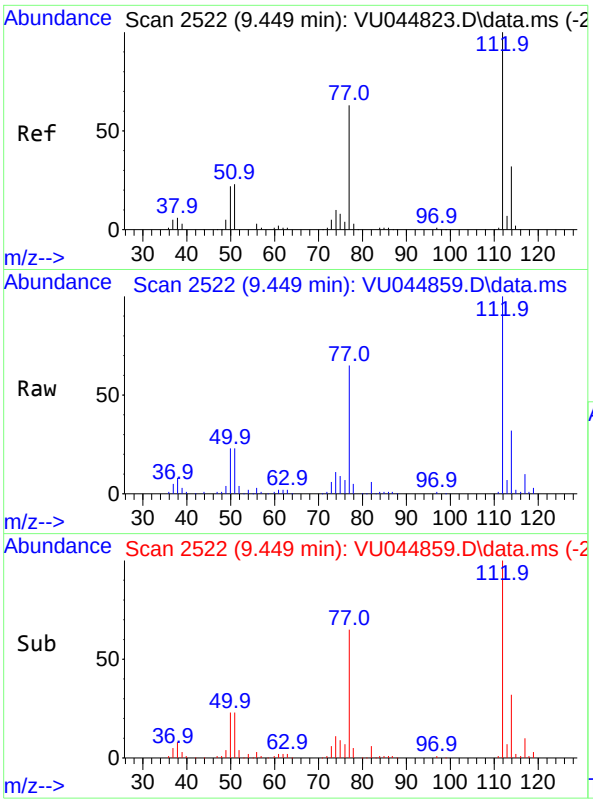
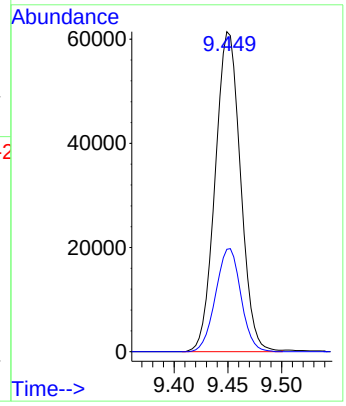
9/27/2021 11:03:15 AM

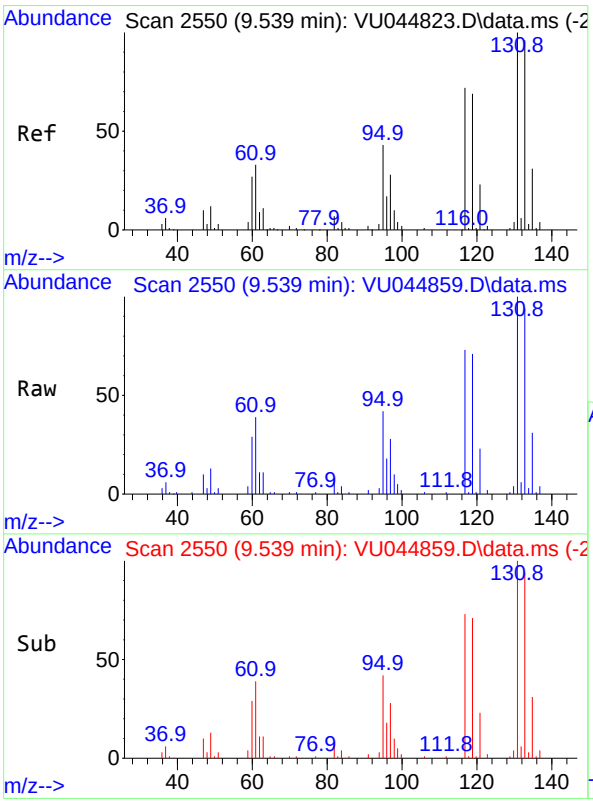


#65
Chlorobenzene
Concen: 19.514 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:112 Resp: 100471

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.9	38.9

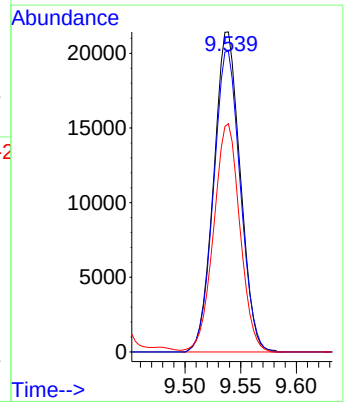




#66
1,1,1,2-Tetrachloroethane
Concen: 19.341 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:131 Resp: 35518

Ion	Ratio	Lower	Upper
131	100		
133	94.7	48.1	144.3
119	70.8	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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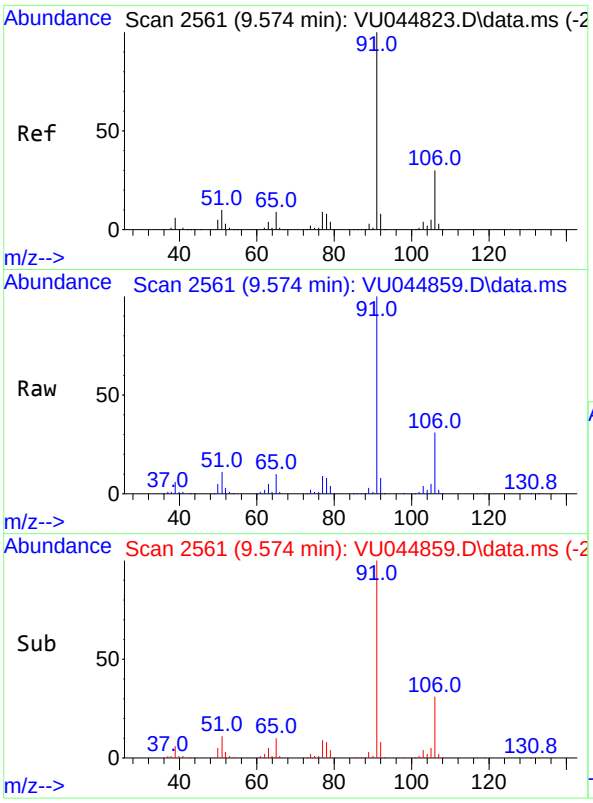
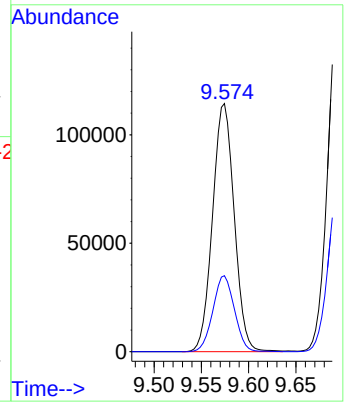
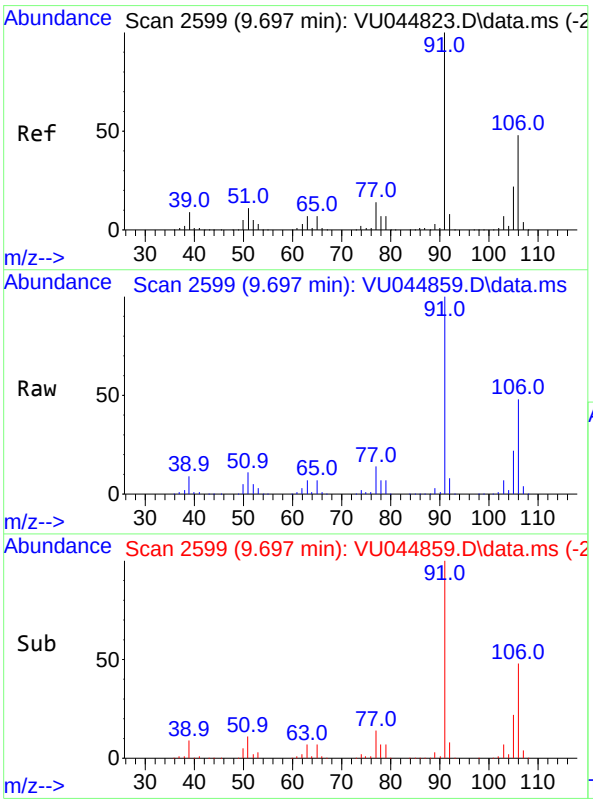


#67
Ethyl Benzene
Concen: 19.876 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 91 Resp: 182658

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.3	36.5

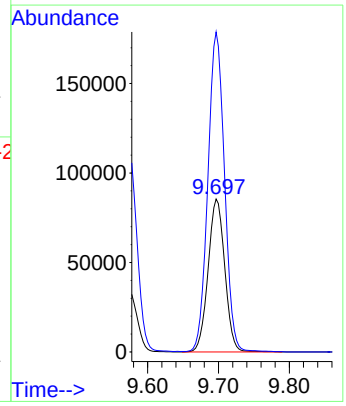




#68
m/p-Xylenes
Concen: 39.714 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:106 Resp: 139585

Ion	Ratio	Lower	Upper
106	100		
91	209.0	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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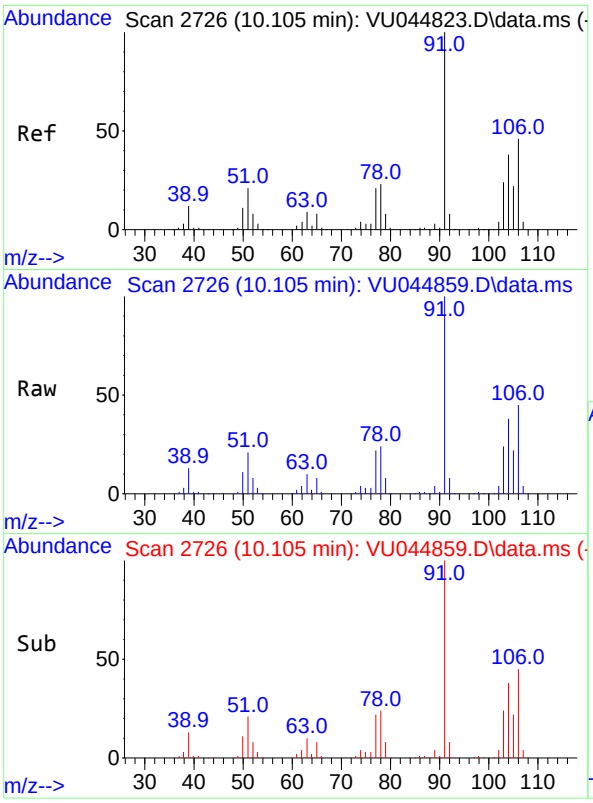
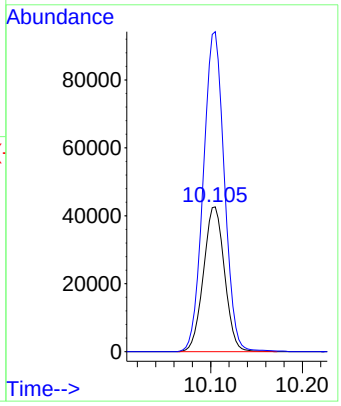
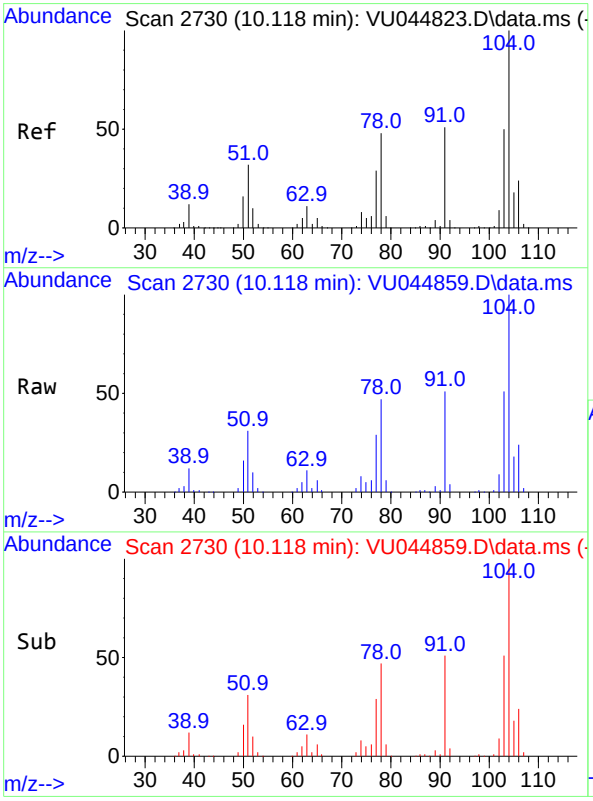


#69
o-Xylene
Concen: 20.053 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:106 Resp: 68155

Ion	Ratio	Lower	Upper
106	100		
91	220.4	108.9	326.7

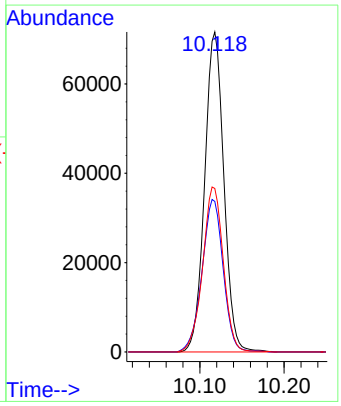




#70
Styrene
Concen: 18.560 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:104 Resp: 113776

Ion	Ratio	Lower	Upper
104	100		
78	52.5	41.4	62.0
103	55.4	43.5	65.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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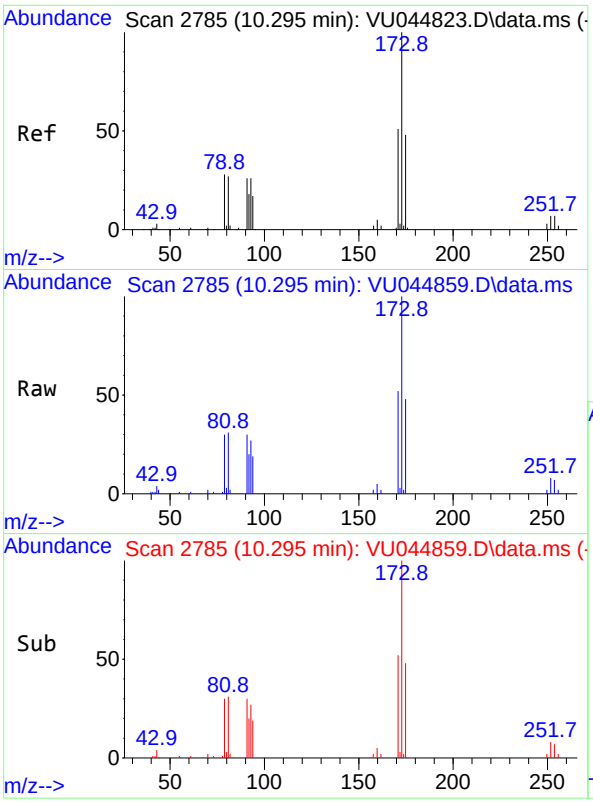
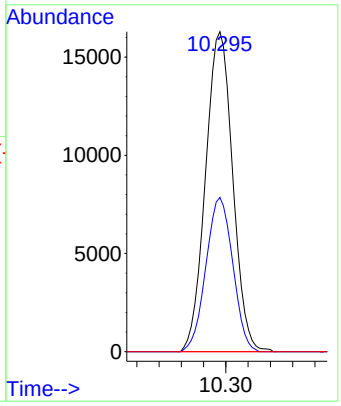
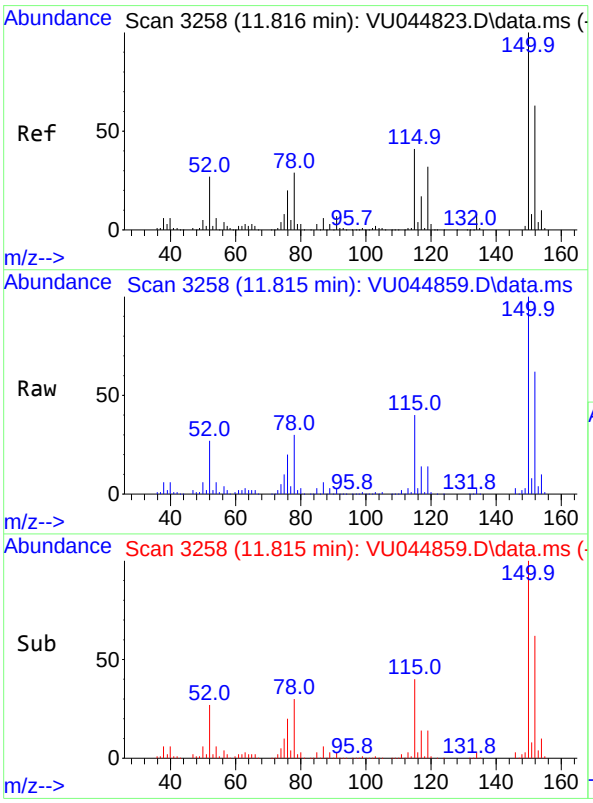


#71
Bromoform
Concen: 18.161 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:173 Resp: 27595

Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.3	73.0
254	0.0	0.0	0.0

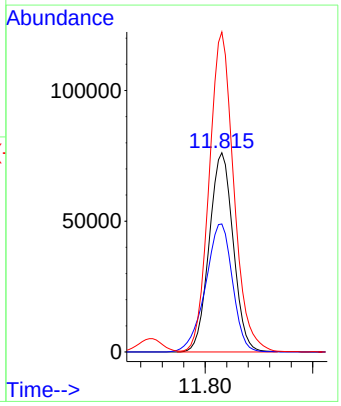




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:152 Resp: 118157

Ion	Ratio	Lower	Upper
152	100		
115	72.3	43.5	130.7
150	165.0	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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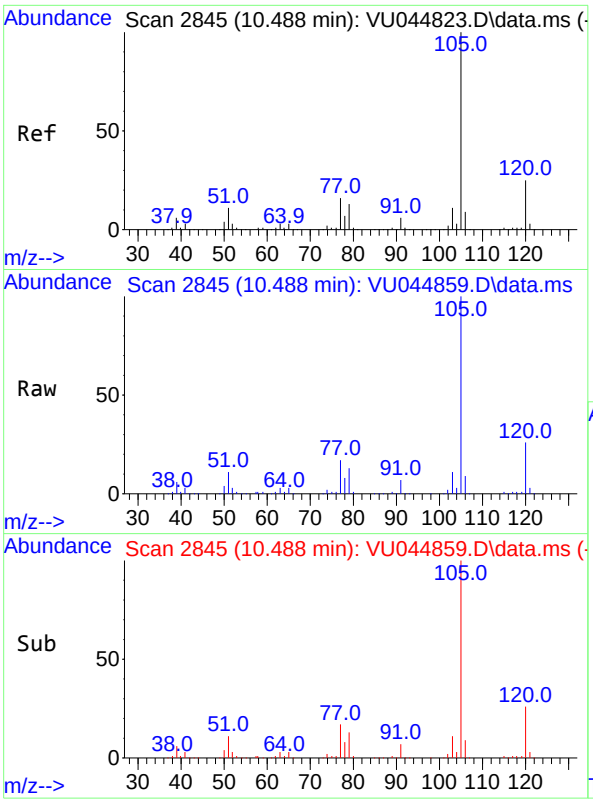
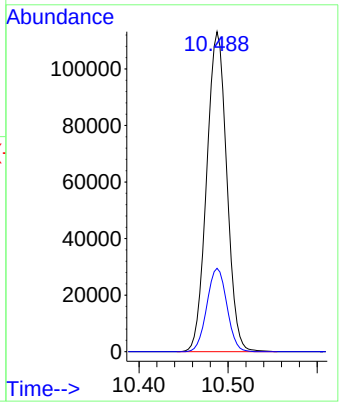
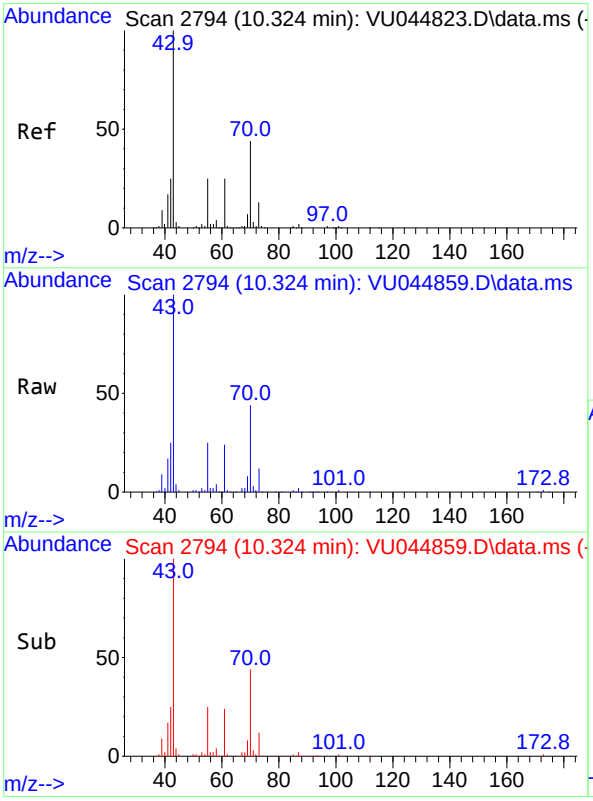


#73
Isopropylbenzene
Concen: 21.110 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:105 Resp: 177035

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.3

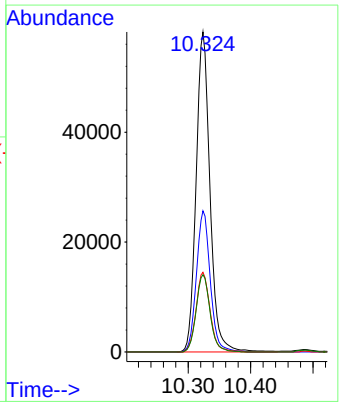




#74
N-amyl acetate
Concen: 21.033 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 43 Resp: 89903

Ion	Ratio	Lower	Upper
43	100		
70	44.1	35.1	52.7
55	25.3	20.5	30.7
61	24.3	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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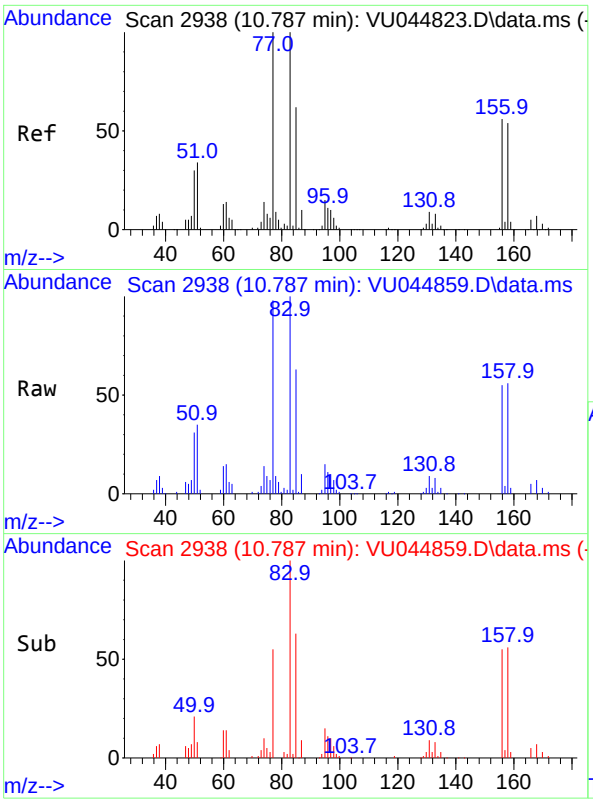
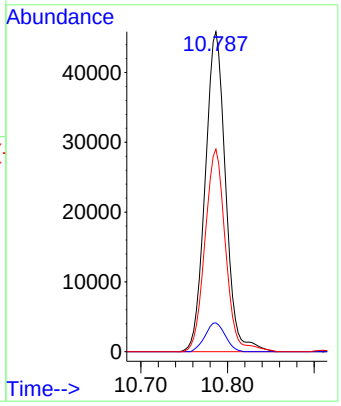
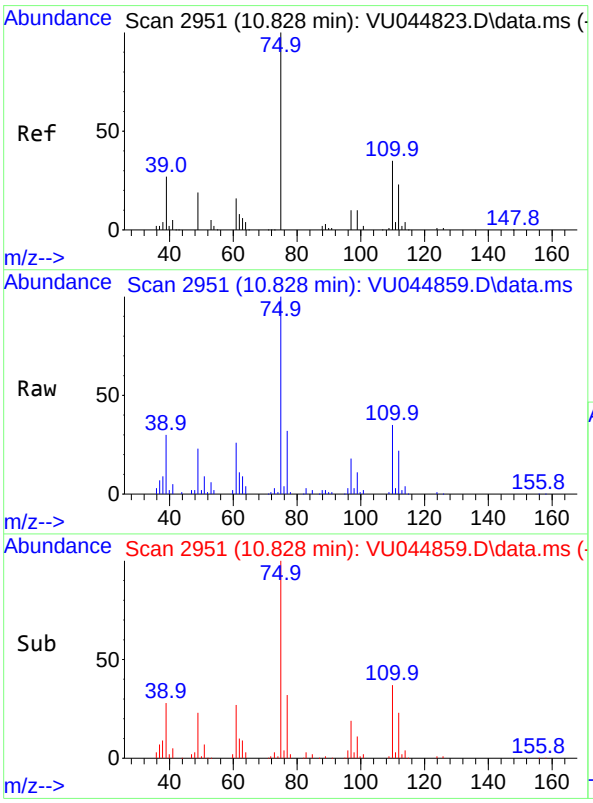


#75
1,1,2,2-Tetrachloroethane
Concen: 19.626 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 83 Resp: 74982

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.3	13.1
85	63.8	31.9	95.5

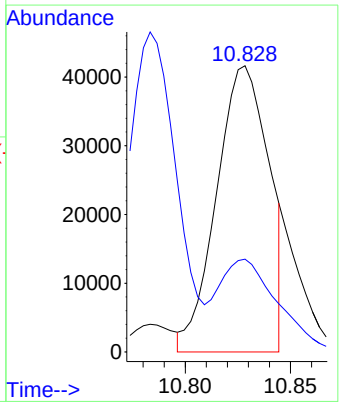




#76
1,2,3-Trichloropropane
Concen: 20.070 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 75 Resp: 71809

Ion	Ratio	Lower	Upper
75	100		
77	37.3	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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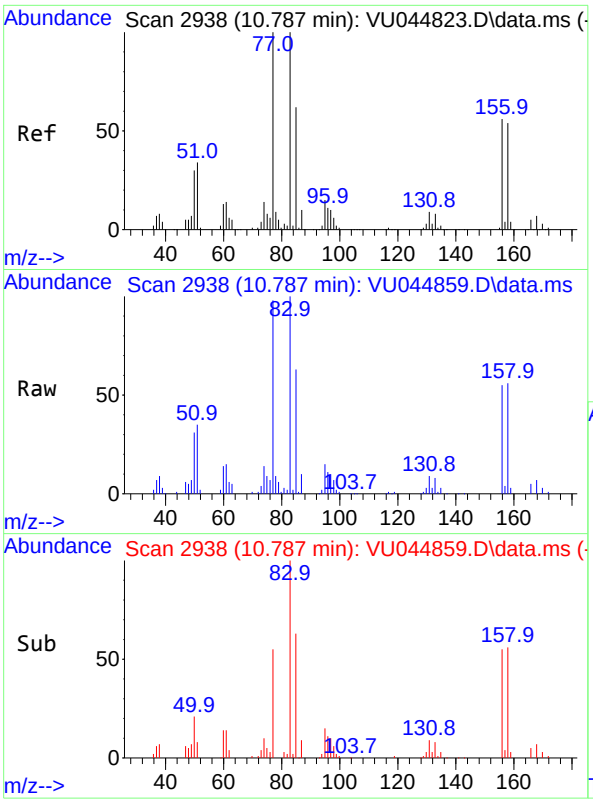
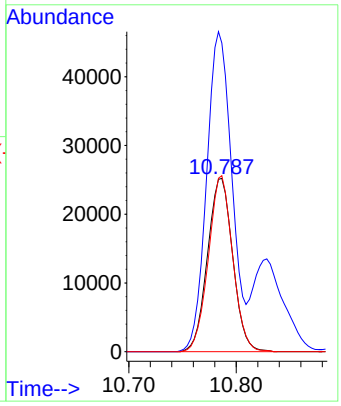
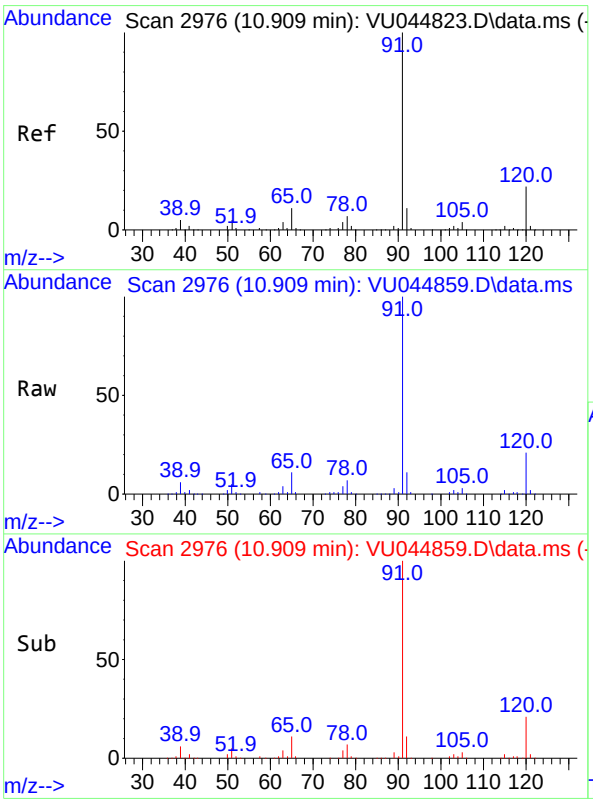


#77
Bromobenzene
Concen: 20.547 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:156 Resp: 41168

Ion	Ratio	Lower	Upper
156	100		
77	184.1	91.1	273.4
158	97.4	48.2	144.6

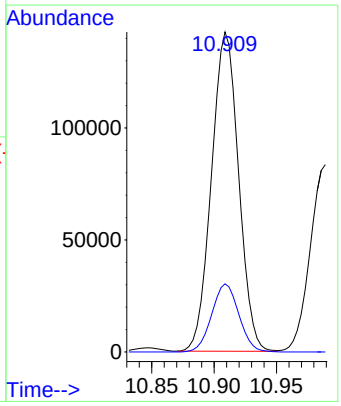




#78
n-propylbenzene
Concen: 21.223 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 91 Resp: 215658

Ion	Ratio	Lower	Upper
91	100		
120	21.3	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
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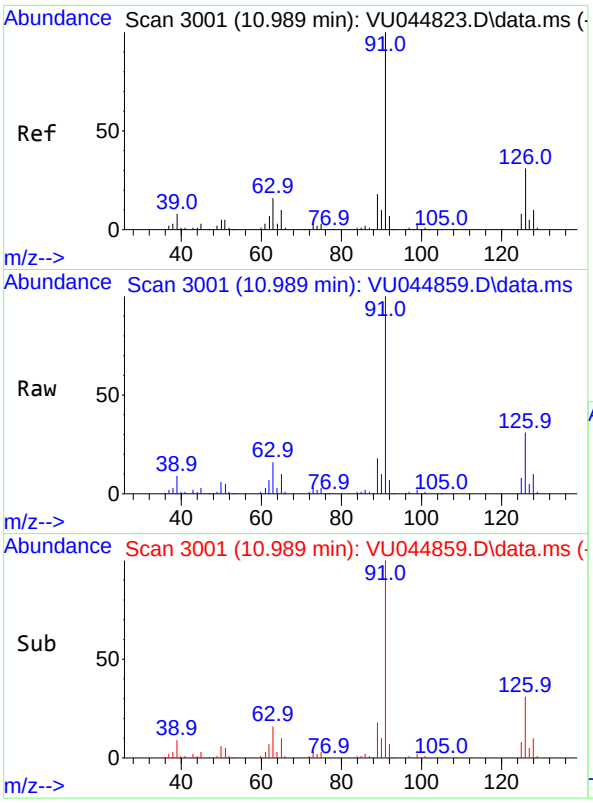
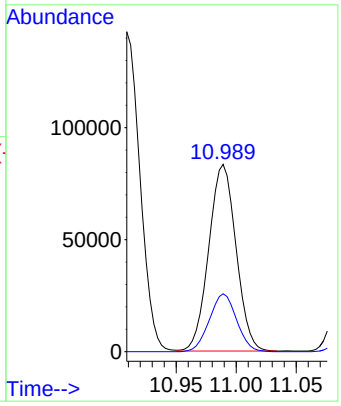
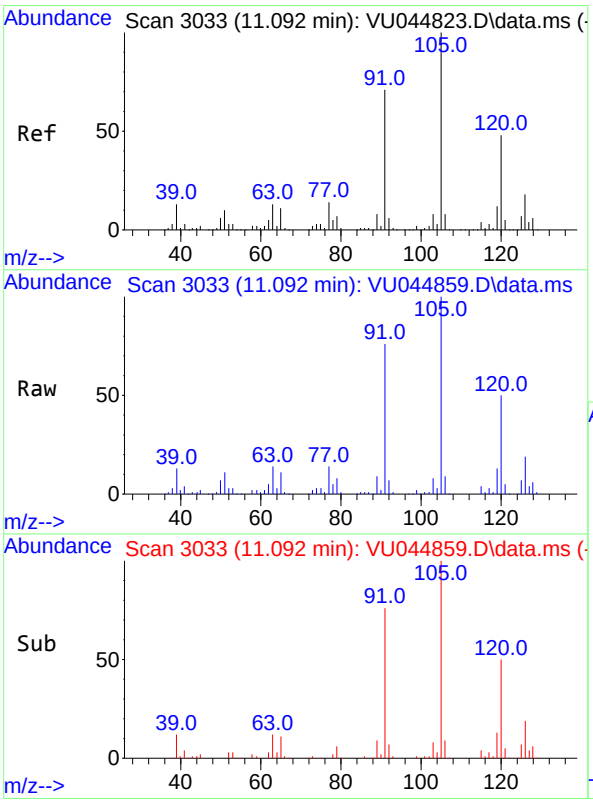


#79
2-Chlorotoluene
Concen: 21.268 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 91 Resp: 131716

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.7	47.0

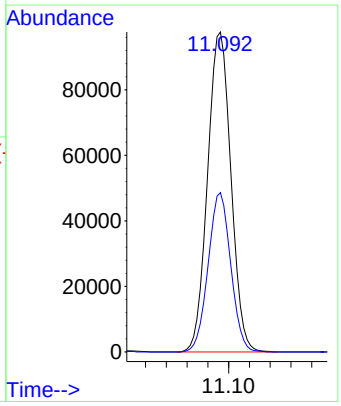




#80
1,3,5-Trimethylbenzene
Concen: 21.439 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:105 Resp: 152295

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.1	72.2



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

Manual Integrations APPROVED
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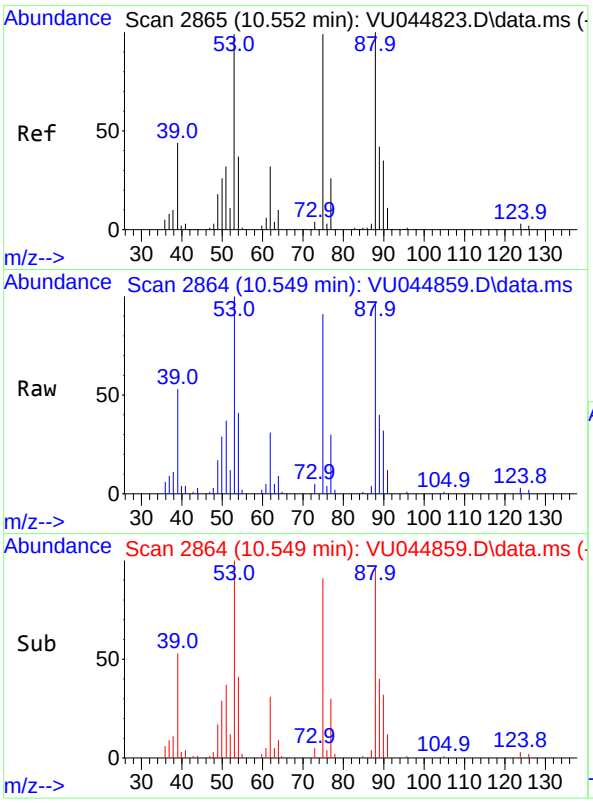
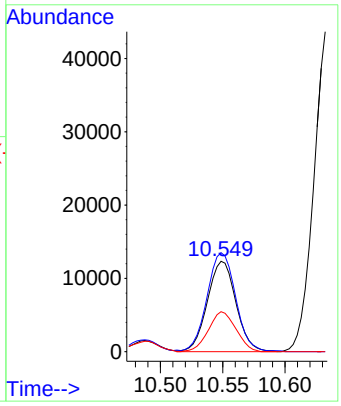
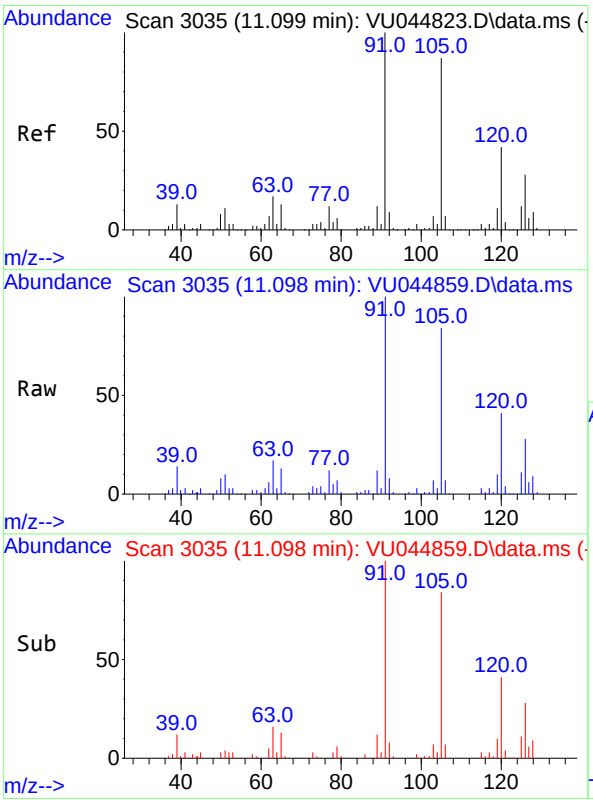


#81
trans-1,4-Dichloro-2-butene
Concen: 17.851 ug/l
RT: 10.549 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 75 Resp: 19716

Ion	Ratio	Lower	Upper
75	100		
53	109.7	82.0	123.0
89	42.6	34.2	51.4

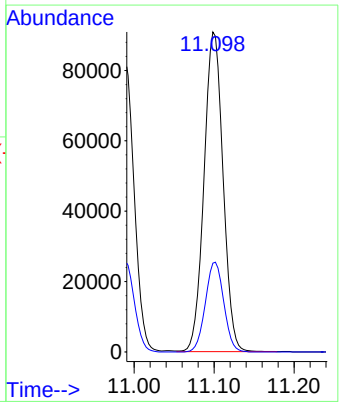




#82
4-Chlorotoluene
Concen: 21.285 ug/l
RT: 11.098 min Scan# 3035
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 91 Resp: 150076

Ion	Ratio	Lower	Upper
91	100		
126	27.1	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

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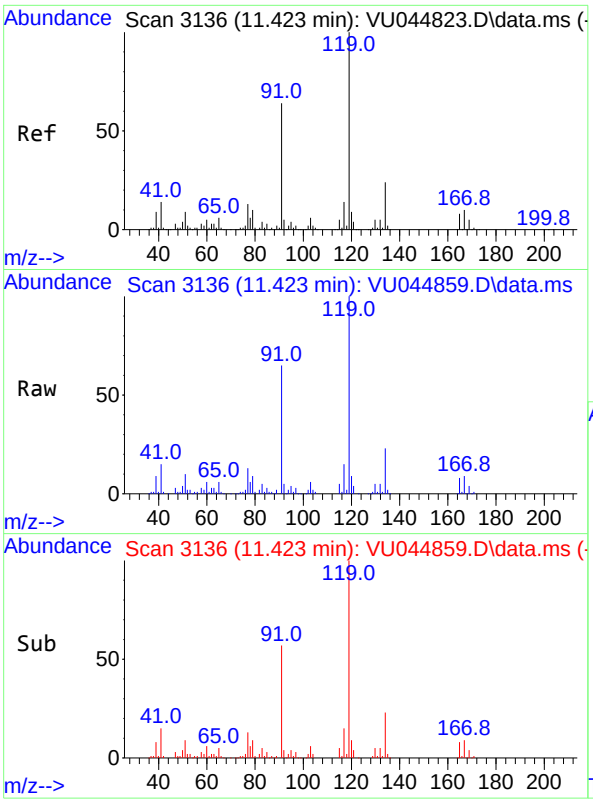
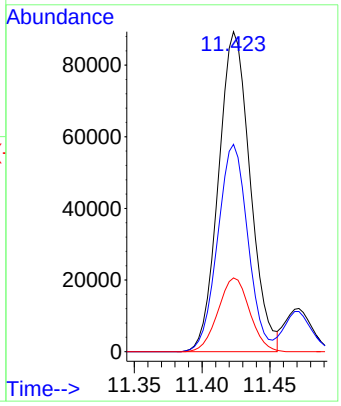
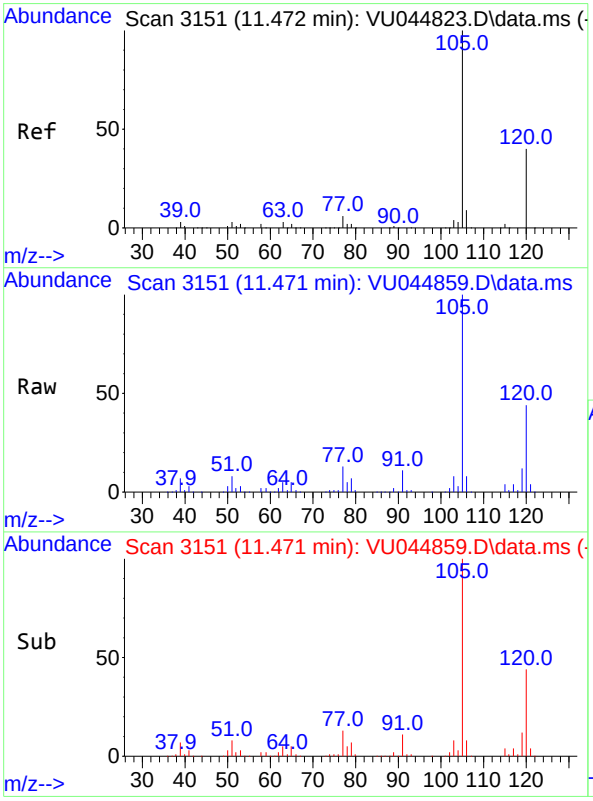


#83
tert-Butylbenzene
Concen: 21.152 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:119 Resp: 144947

Ion	Ratio	Lower	Upper
119	100		
91	62.0	30.4	91.2
134	23.0	11.5	34.5

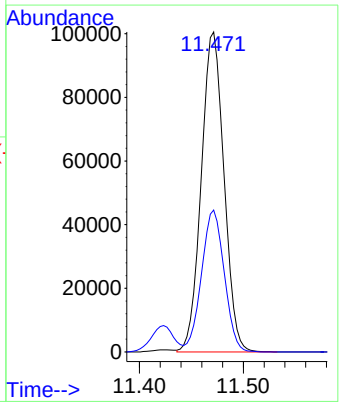




#84
1,2,4-Trimethylbenzene
Concen: 21.776 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

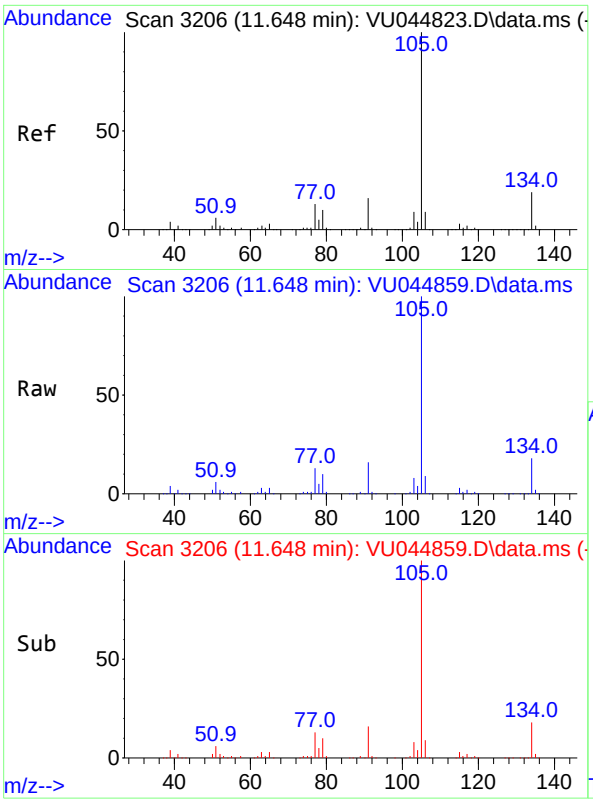
Tgt Ion:105 Resp: 152499

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

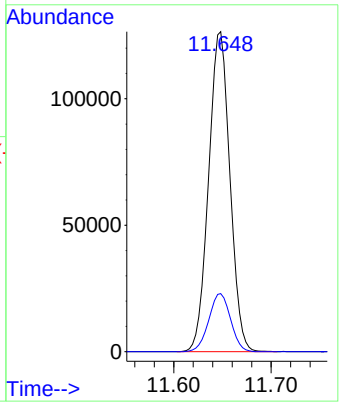
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

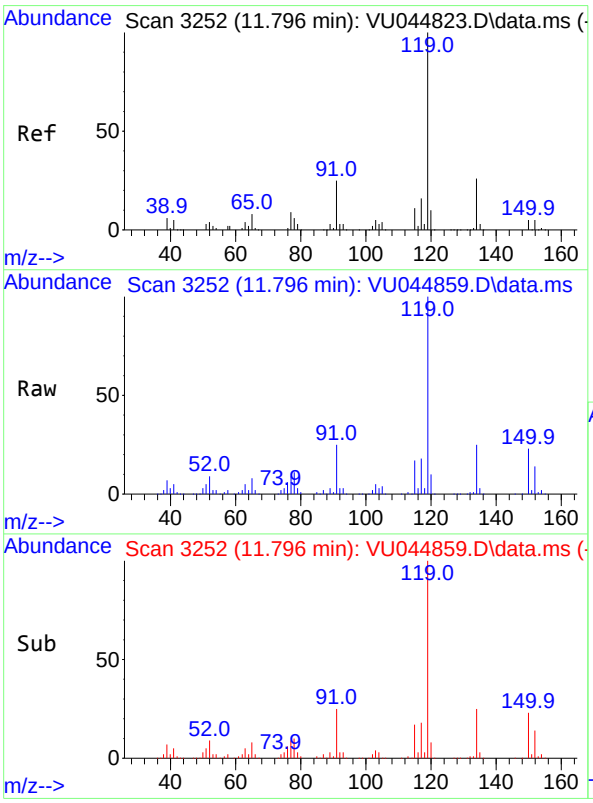


#85
sec-Butylbenzene
Concen: 21.674 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:105 Resp: 192064

Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.3	28.0

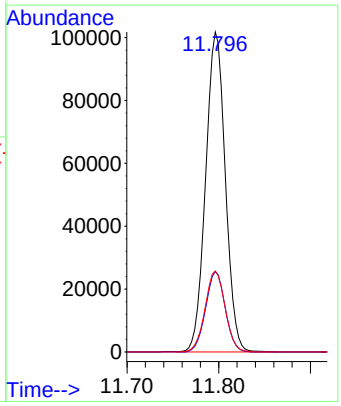




#86
p-Isopropyltoluene
Concen: 21.088 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

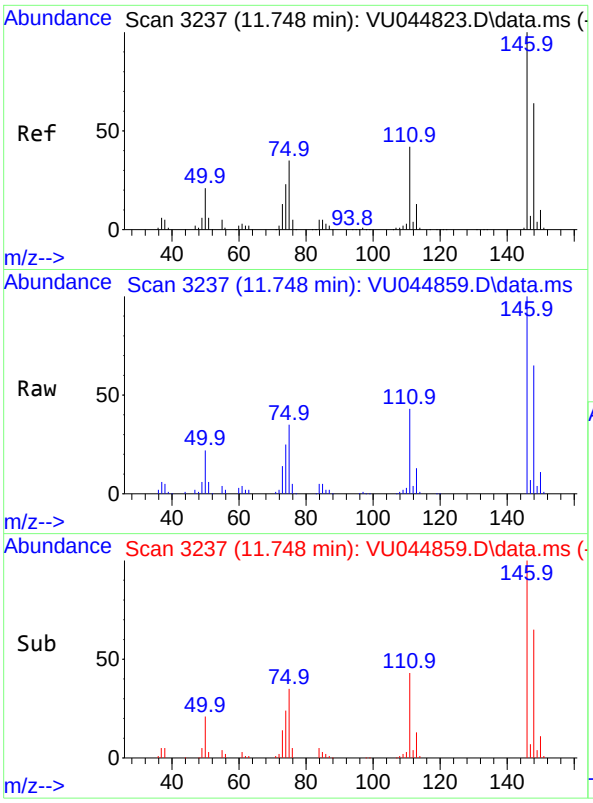
Tgt Ion:119 Resp: 152017

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.8	38.3
91	25.7	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

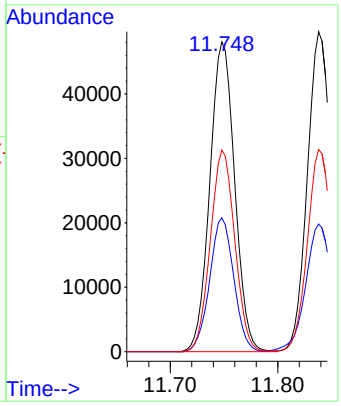
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

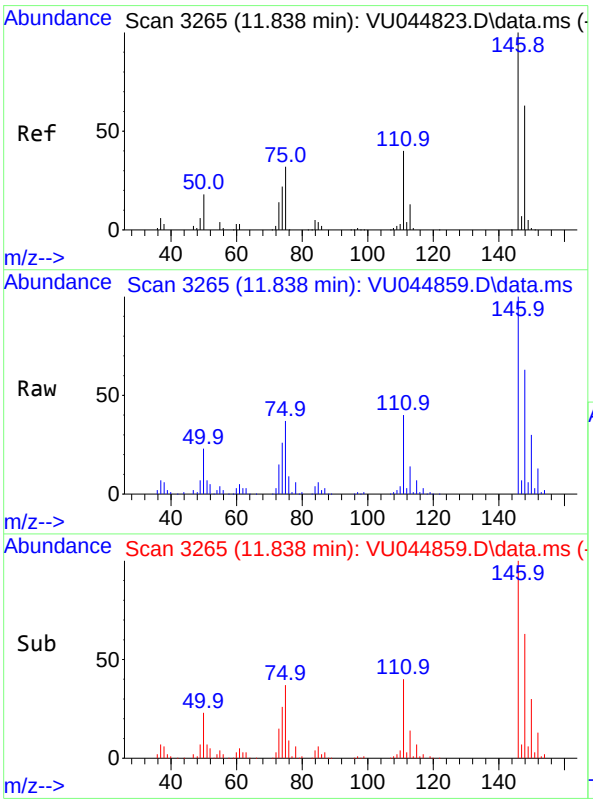


#87
1,3-Dichlorobenzene
Concen: 19.844 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:146 Resp: 77155

Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.2	63.6
148	64.2	32.1	96.3

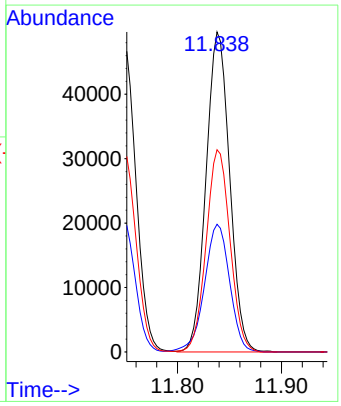




#88
1,4-Dichlorobenzene
Concen: 19.491 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

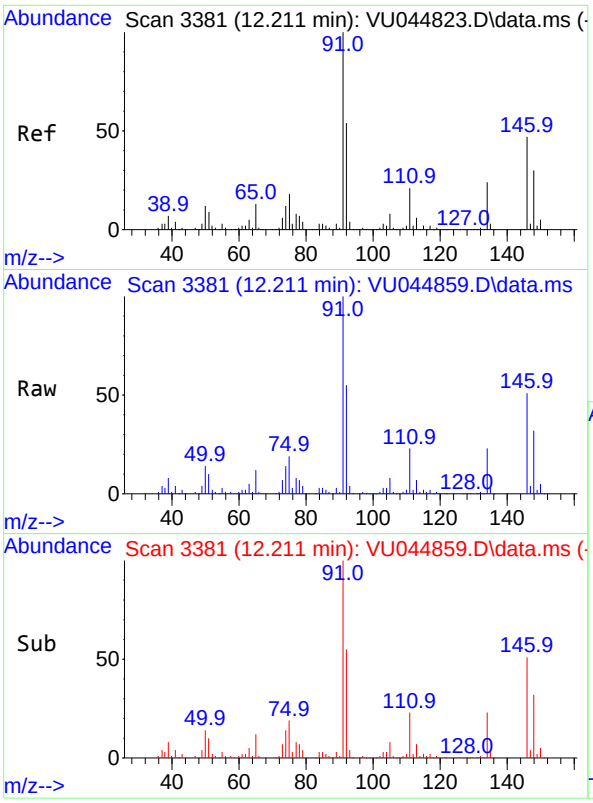
Tgt Ion:146 Resp: 78369

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.3	61.0
148	64.0	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

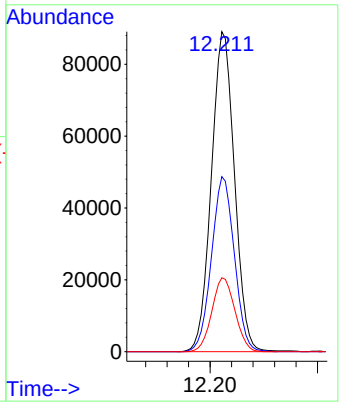
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

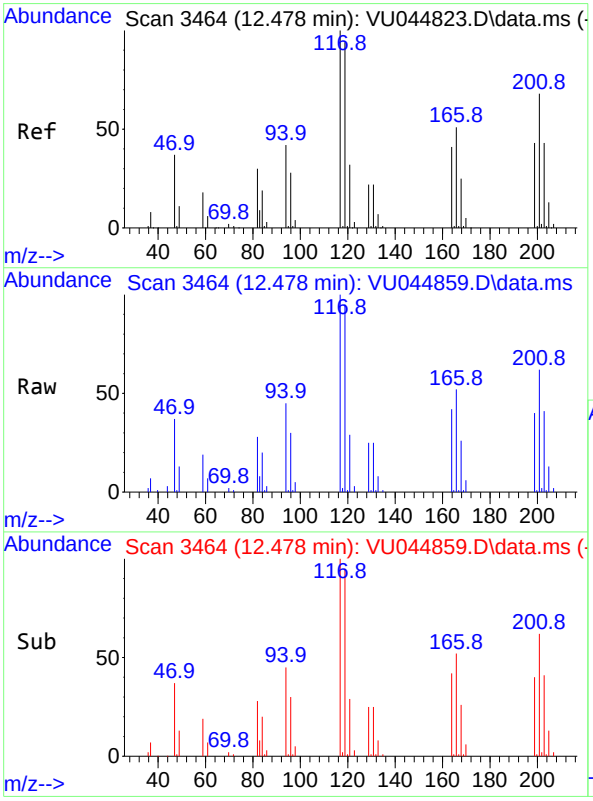


#89
n-Butylbenzene
Concen: 18.712 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion: 91 Resp: 132863

Ion	Ratio	Lower	Upper
91	100		
92	54.2	26.8	80.4
134	23.1	11.8	35.4

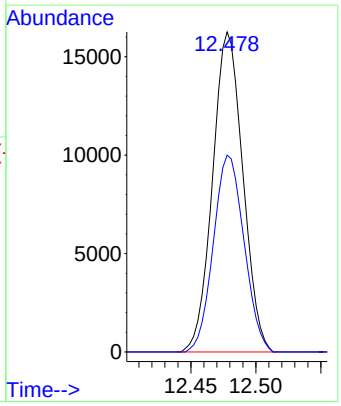




#90
Hexachloroethane
Concen: 20.289 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

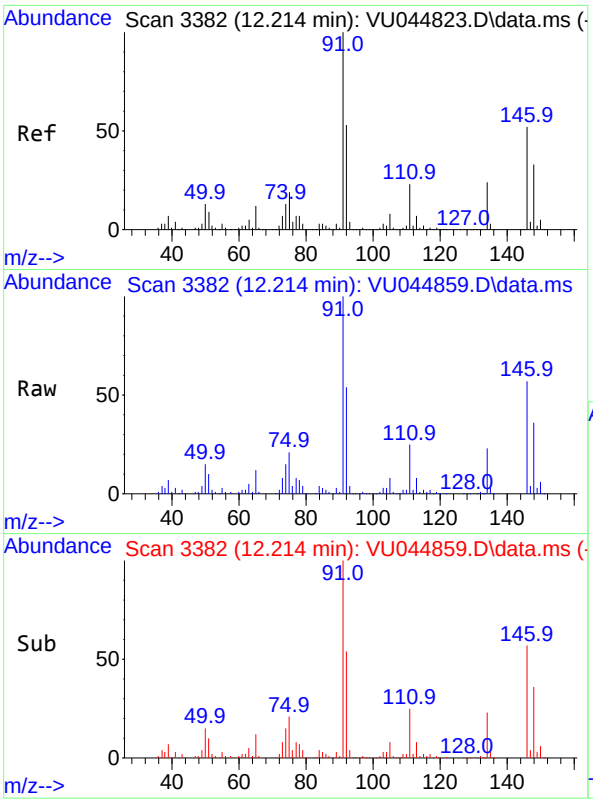
Tgt Ion:117 Resp: 26355

Ion	Ratio	Lower	Upper
117	100		
201	62.2	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

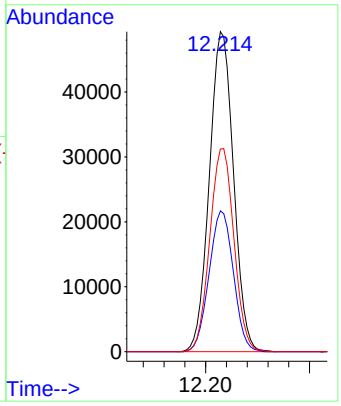
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

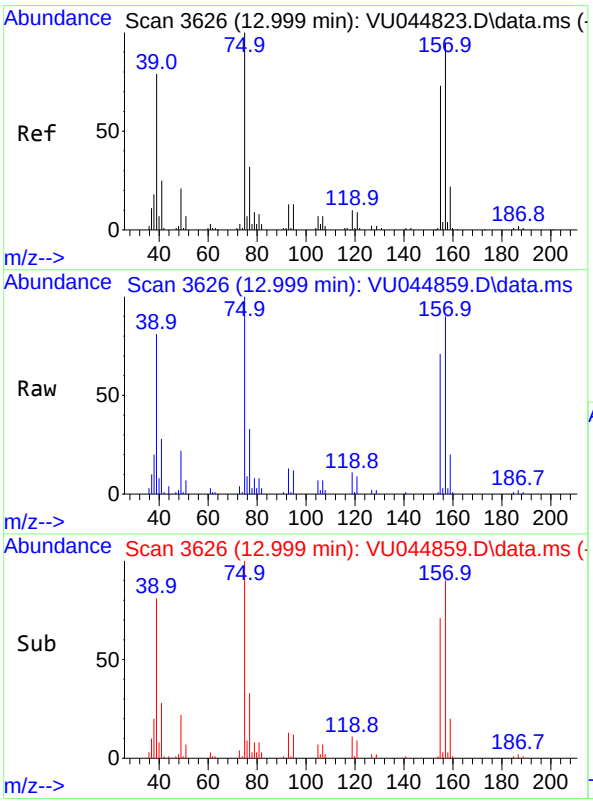


#91
1,2-Dichlorobenzene
Concen: 19.297 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:146 Resp: 79509

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.4	64.3
148	63.6	31.8	95.3

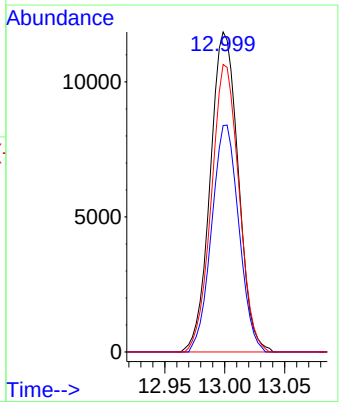




#92
1,2-Dibromo-3-Chloropropane
Concen: 20.768 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

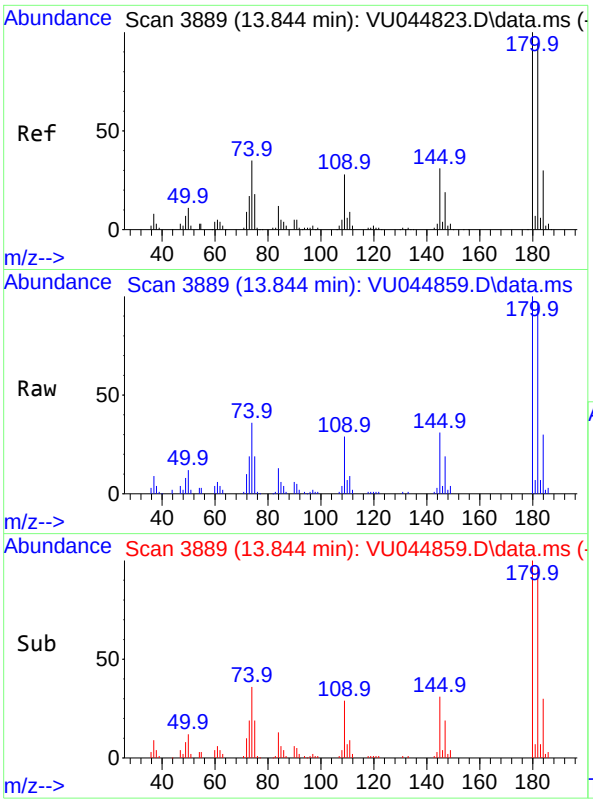
Tgt Ion: 75 Resp: 19240

Ion	Ratio	Lower	Upper
75	100		
155	68.8	36.9	110.6
157	88.4	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

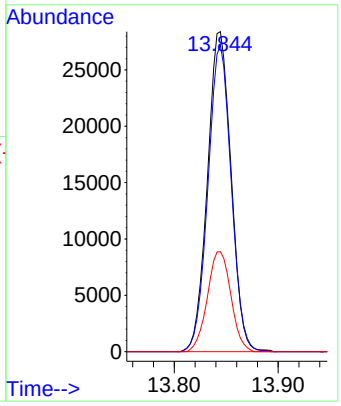
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

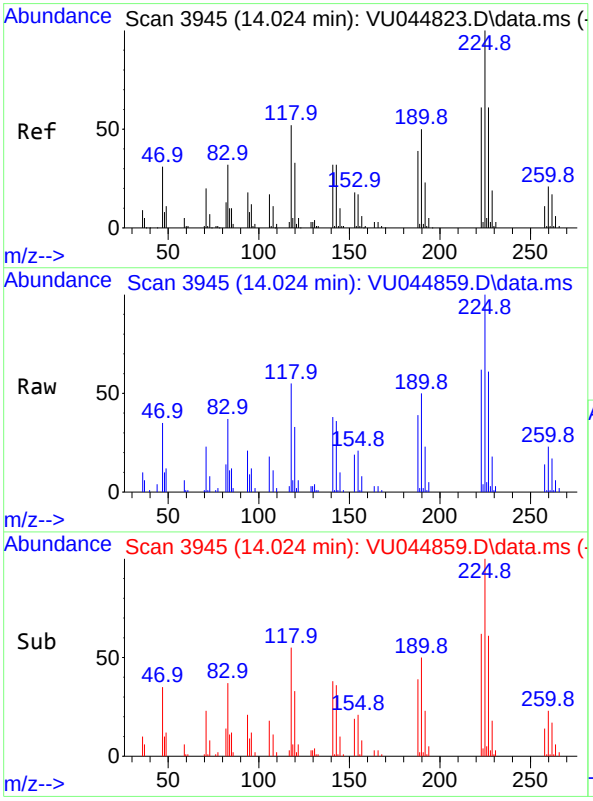


#93
1,2,4-Trichlorobenzene
Concen: 19.653 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:180 Resp: 44745

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.4	142.3
145	31.2	15.4	46.2

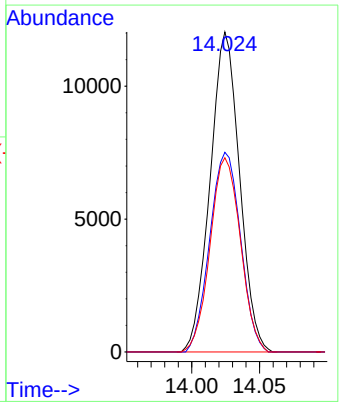




#94
Hexachlorobutadiene
Concen: 17.942 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

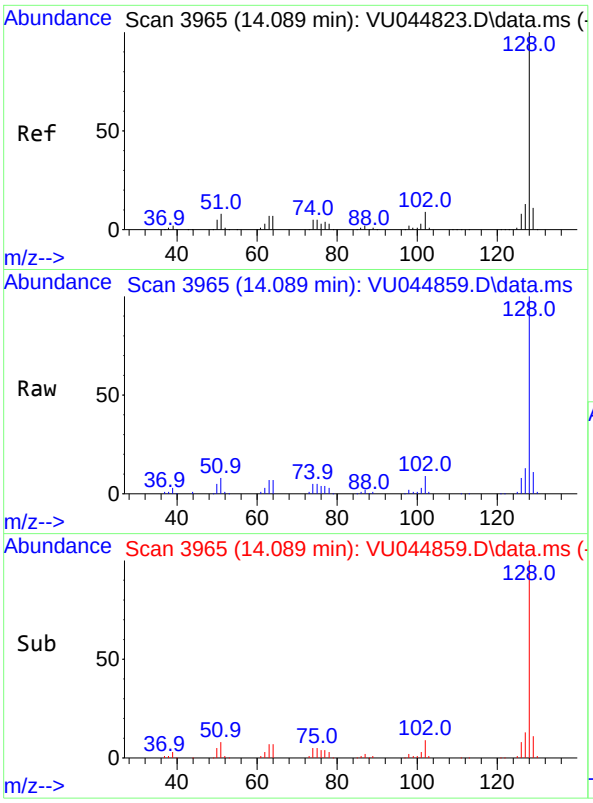
Tgt Ion:225 Resp: 18173

Ion	Ratio	Lower	Upper
225	100		
223	65.3	31.1	93.3
227	62.6	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VU0925WBS02

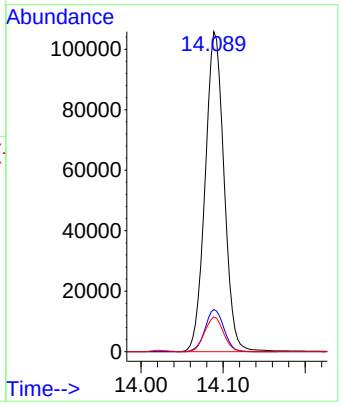
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:15 AM

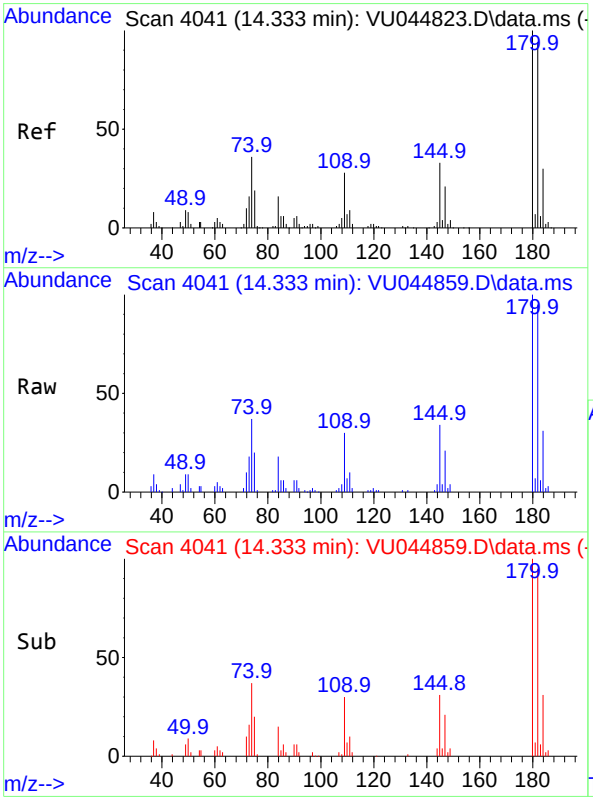


#95
Naphthalene
Concen: 19.249 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:128 Resp: 169087

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.9	8.6	13.0

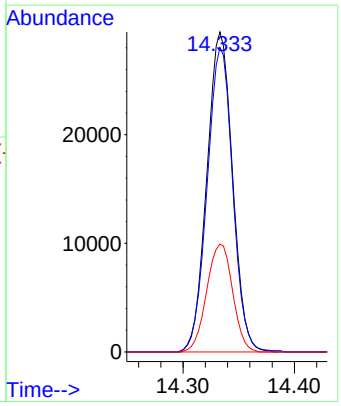




#96
1,2,3-Trichlorobenzene
Concen: 20.342 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044859.D
Acq: 26 Sep 2021 00:46

Tgt Ion:180 Resp: 47095

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.1	141.4
145	34.1	16.4	49.2



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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBS01	SDG No.:	M3859
Lab Sample ID:	VU0927WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044889.D	1		09/27/21 15:21	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		0.23	1.00	ug/L
74-87-3	Chloromethane	14.8		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	16.4		0.19	1.00	ug/L
74-83-9	Bromomethane	10.3		0.87	5.00	ug/L
75-00-3	Chloroethane	17.4		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	14.6		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.8		0.22	1.00	ug/L
79-20-9	Methyl Acetate	18.1		0.47	1.00	ug/L
75-09-2	Methylene Chloride	18.1		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.2		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.4		0.21	1.00	ug/L
110-82-7	Cyclohexane	17.6		1.30	5.00	ug/L
78-93-3	2-Butanone	97.0		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.22	1.00	ug/L
74-97-5	Bromochloromethane	15.4		0.26	1.00	ug/L
67-66-3	Chloroform	19.1		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.14	1.00	ug/L
71-43-2	Benzene	18.6		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.3		0.25	1.00	ug/L
79-01-6	Trichloroethene	17.9		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	19.4		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.87	5.00	ug/L
108-88-3	Toluene	19.7		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.4		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.2		0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBS01	SDG No.:	M3859
Lab Sample ID:	VU0927WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044889.D	1		09/27/21 15:21	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.9		0.24	1.00	ug/L
591-78-6	2-Hexanone	110		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	19.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.17	1.00	ug/L
108-90-7	Chlorobenzene	20.0		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	20.7		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	41.7		0.32	2.00	ug/L
95-47-6	o-Xylene	21.7		0.19	1.00	ug/L
100-42-5	Styrene	20.0		0.16	1.00	ug/L
75-25-2	Bromoform	21.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.7		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.0		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.5		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.3		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.3		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		78 - 117	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	53.4		92 - 112	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.6		83 - 123	117%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	149000	5.378			
540-36-3	1,4-Difluorobenzene	268000	6.253			
3114-55-4	Chlorobenzene-d5	256000	9.423			
3855-82-1	1,4-Dichlorobenzene-d4	137000	11.815			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBS01	SDG No.:	M3859
Lab Sample ID:	VU0927WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044889.D	1		09/27/21 15:21	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044889.D
Acq On : 27 Sep 2021 15:21
Operator : SY/MD
Sample : VU0927WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 16:36:57 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.378	168	149448	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	267673	50.000 ug/l	0.00
63) Chlorobenzene-d5	9.423	117	255569	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	137448	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.706	65	137755	52.815 ug/l	0.00
Spiked Amount 50.000			Recovery = 105.620%		
35) Dibromofluoromethane	5.292	113	95152	51.818 ug/l	0.00
Spiked Amount 50.000			Recovery = 103.640%		
50) Toluene-d8	7.902	98	370291	53.393 ug/l	0.00
Spiked Amount 50.000			Recovery = 106.780%		
62) 4-Bromofluorobenzene	10.639	95	151012	58.625 ug/l	0.00
Spiked Amount 50.000			Recovery = 117.260%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.385	85	34499	19.275 ug/l	97
3) Chloromethane	1.517	50	40087	14.758 ug/l	98
4) Vinyl Chloride	1.607	62	41542	16.386 ug/l	99
5) Bromomethane	1.838	94	17252	10.298 ug/l	99
6) Chloroethane	1.909	64	30064	17.431 ug/l	97
7) Trichlorofluoromethane	2.124	101	59078	18.976 ug/l	99
8) Diethyl Ether	2.378	74	28252	19.823 ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.575	101	36143	19.879 ug/l	97
10) Methyl Iodide	2.719	142	29648	15.006 ug/l	99
11) Tert butyl alcohol	3.263	59	72120m	94.735 ug/l	
12) 1,1-Dichloroethene	2.575	96	33259	18.483 ug/l	93
13) Acrolein	2.488	56	19551	94.938 ug/l	97
14) Allyl chloride	2.922	41	63374	18.145 ug/l	97
15) Acrylonitrile	3.321	53	144867	91.098 ug/l	98
16) Acetone	2.636	43	163096	110.856 ug/l	100
17) Carbon Disulfide	2.790	76	73929	14.605 ug/l	99
18) Methyl Acetate	2.954	43	88946	18.096 ug/l	99
19) Methyl tert-butyl Ether	3.369	73	139488	20.759 ug/l	100
20) Methylene Chloride	3.047	84	43177	18.129 ug/l	95
21) trans-1,2-Dichloroethene	3.353	96	35159	18.249 ug/l	98
22) Diisopropyl ether	3.999	45	135208	19.593 ug/l	97
23) Vinyl Acetate	3.960	43	546838	96.631 ug/l	98
24) 1,1-Dichloroethane	3.874	63	77749	19.411 ug/l	99
25) 2-Butanone	4.710	43	216473	96.972 ug/l	98
26) 2,2-Dichloropropane	4.668	77	64426	21.448 ug/l	100
27) cis-1,2-Dichloroethene	4.671	96	44936	19.177 ug/l	100
28) Bromochloromethane	4.980	49	29375	15.433 ug/l	98
29) Tetrahydrofuran	5.057	42	124800	88.863 ug/l	96
30) Chloroform	5.092	83	77062	19.134 ug/l	99
31) Cyclohexane	5.391	56	65858	17.587 ug/l	94
32) 1,1,1-Trichloroethane	5.320	97	62548	19.221 ug/l	99
36) 1,1-Dichloropropene	5.529	75	54376	19.146 ug/l	98
37) Ethyl Acetate	4.809	43	74204	17.807 ug/l	97
38) Carbon Tetrachloride	5.526	117	47518	18.715 ug/l	96
39) Methylcyclohexane	6.767	83	61921	19.277 ug/l	98
40) Benzene	5.777	78	161449	18.646 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044889.D
Acq On : 27 Sep 2021 15:21
Operator : SY/MD
Sample : VU0927WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 16:36:57 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.980	41	39497	18.988	ug/l		97
42) 1,2-Dichloroethane	5.800	62	65793	19.314	ug/l		100
43) Isopropyl Acetate	5.918	43	113237	19.423	ug/l		99
44) Trichloroethene	6.545	130	37310	17.928	ug/l		96
45) 1,2-Dichloropropane	6.796	63	44764	19.102	ug/l		97
46) Dibromomethane	6.922	93	29849	19.223	ug/l		99
47) Bromodichloromethane	7.111	83	59342	19.374	ug/l		99
48) Methyl methacrylate	6.967	41	53379	19.398	ug/l		95
49) 1,4-Dioxane	6.983	88	29105	413.844	ug/l		94
51) 4-Methyl-2-Pentanone	7.803	43	421262	101.384	ug/l		99
52) Toluene	7.973	92	102235	19.749	ug/l		99
53) t-1,3-Dichloropropene	8.214	75	65235	20.443	ug/l		99
54) cis-1,3-Dichloropropene	7.613	75	69884	20.222	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	44116	19.932	ug/l		98
56) Ethyl methacrylate	8.340	69	75473	20.307	ug/l		99
57) 1,3-Dichloropropane	8.581	76	78953	20.033	ug/l		100
58) 2-Chloroethyl Vinyl ether	7.468	63	99486	118.407	ug/l		97
59) 2-Hexanone	8.693	43	351988	105.536	ug/l		98
60) Dibromochloromethane	8.815	129	41745	19.696	ug/l		99
61) 1,2-Dibromoethane	8.928	107	45417	19.543	ug/l		98
64) Tetrachloroethene	8.558	164	32902	18.993	ug/l		95
65) Chlorobenzene	9.452	112	106372	20.049	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	37721	19.933	ug/l		97
67) Ethyl Benzene	9.574	91	196423	20.742	ug/l		100
68) m/p-Xylenes	9.696	106	151188	41.743	ug/l		98
69) o-Xylene	10.105	106	76137	21.740	ug/l		98
70) Styrene	10.118	104	126797	19.990	ug/l		99
71) Bromoform	10.298	173	32975	21.060	ug/l	#	100
73) Isopropylbenzene	10.487	105	198826	20.381	ug/l		99
74) N-amyl acetate	10.327	43	104722	21.061	ug/l		98
75) 1,1,2,2-Tetrachloroethane	10.790	83	91779	20.651	ug/l		100
76) 1,2,3-Trichloropropane	10.831	75	81668m	19.622	ug/l		
77) Bromobenzene	10.786	156	47606	20.426	ug/l		99
78) n-propylbenzene	10.909	91	245433	20.763	ug/l		99
79) 2-Chlorotoluene	10.992	91	149953	20.814	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	175150	21.196	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.552	75	27615	21.493	ug/l		99
82) 4-Chlorotoluene	11.102	91	173738	21.183	ug/l		100
83) tert-Butylbenzene	11.426	119	170245	21.357	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	178665	21.931	ug/l		99
85) sec-Butylbenzene	11.648	105	224462	21.775	ug/l		100
86) p-Isopropyltoluene	11.796	119	184319	21.980	ug/l		99
87) 1,3-Dichlorobenzene	11.751	146	94963	20.996	ug/l		98
88) 1,4-Dichlorobenzene	11.841	146	96027	20.530	ug/l		98
89) n-Butylbenzene	12.214	91	168046	20.234	ug/l		100
90) Hexachloroethane	12.481	117	31471	20.827	ug/l		97
91) 1,2-Dichlorobenzene	12.217	146	97950	20.436	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	13.002	75	20374	18.905	ug/l		99
93) 1,2,4-Trichlorobenzene	13.844	180	53701	20.276	ug/l		99
94) Hexachlorobutadiene	14.027	225	23165	19.661	ug/l		98
95) Naphthalene	14.092	128	196651	19.245	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	54729	20.321	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044889.D
Acq On : 27 Sep 2021 15:21
Operator : SY/MD
Sample : VU0927WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 16:36:57 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044889.D
Acq On : 27 Sep 2021 15:21
Operator : SY/MD
Sample : VU0927WBS01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 16:36:57 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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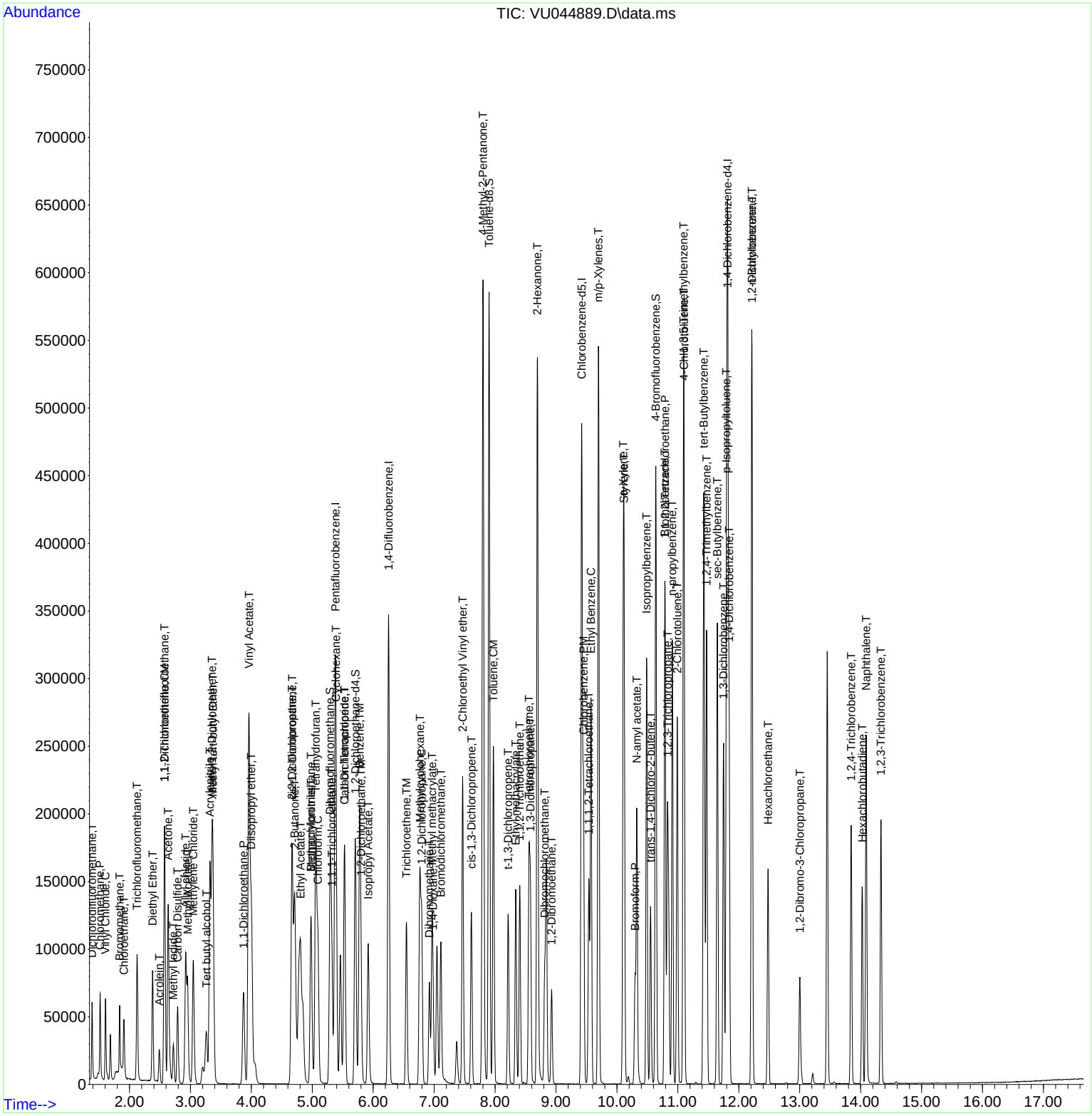

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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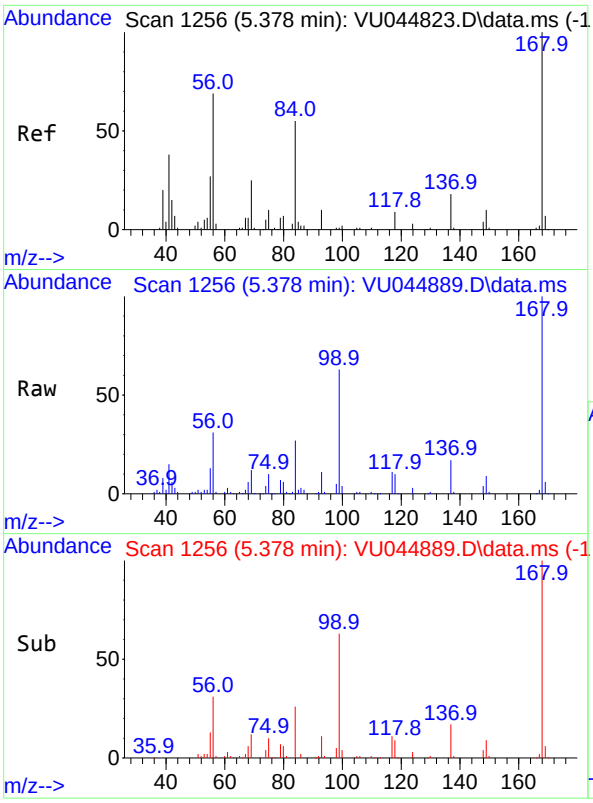
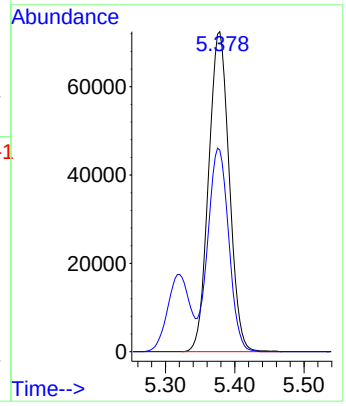
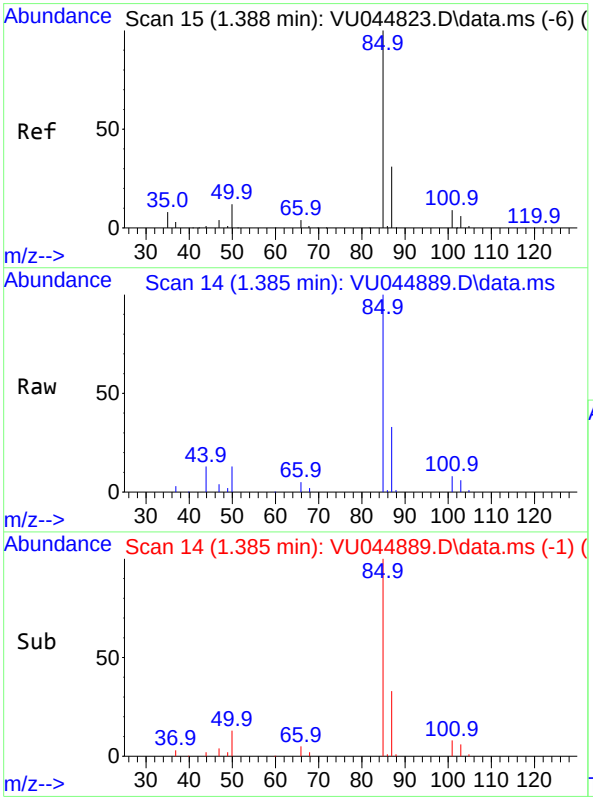


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:168 Resp: 149448

Ion	Ratio	Lower	Upper
168	100		
99	63.0	51.4	77.0

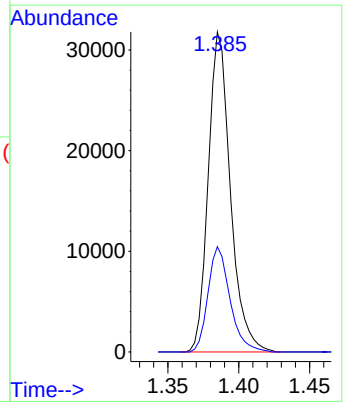




#2
Dichlorodifluoromethane
Concen: 19.275 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 85 Resp: 34499

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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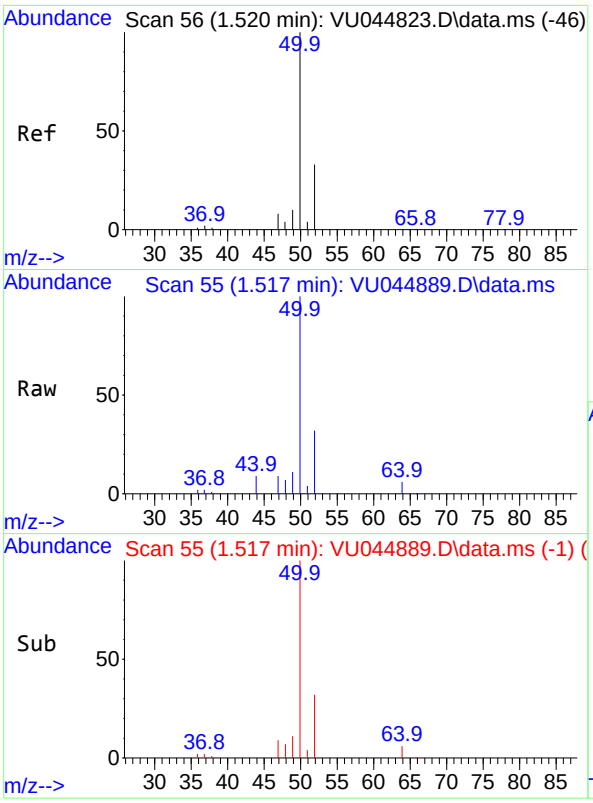
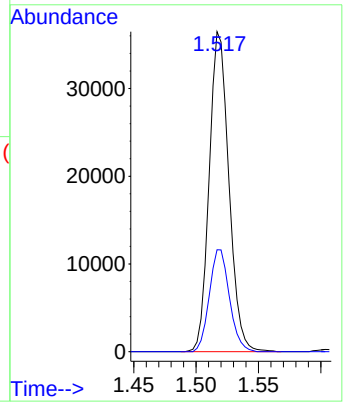
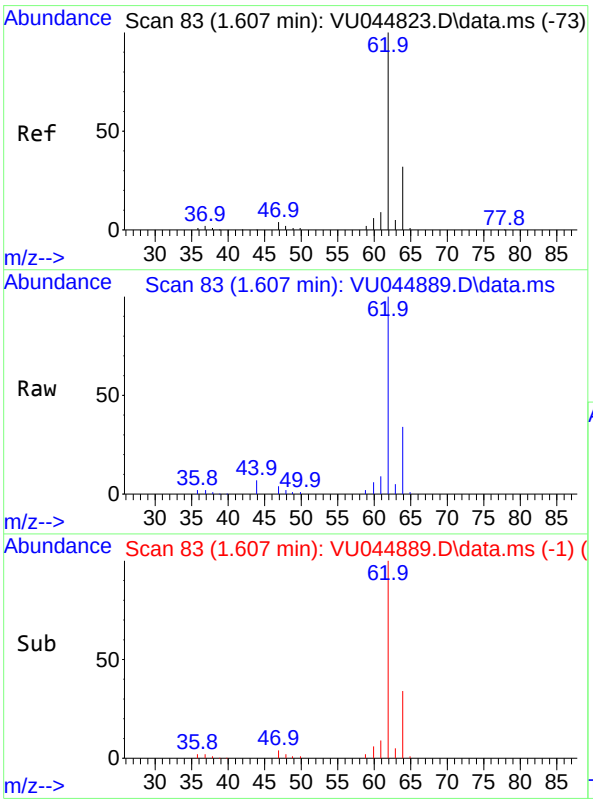


#3
Chloromethane
Concen: 14.758 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 50 Resp: 40087

Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.3	39.5

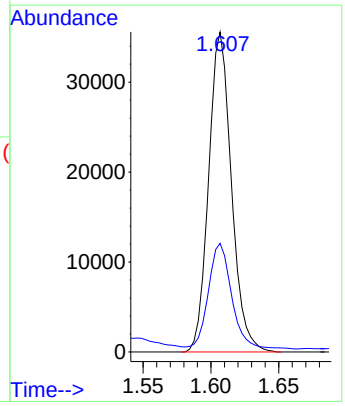




#4
Vinyl Chloride
Concen: 16.386 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 62 Resp: 41542

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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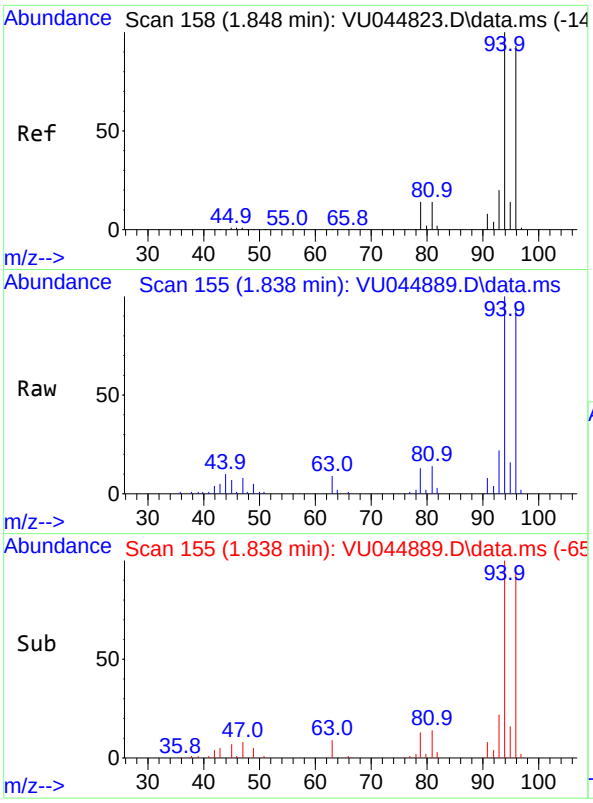
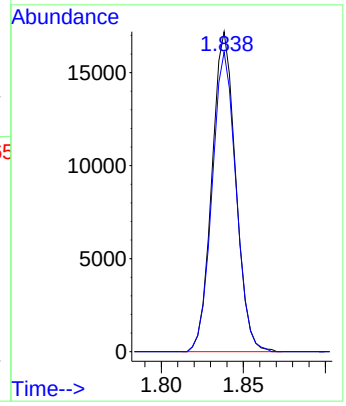
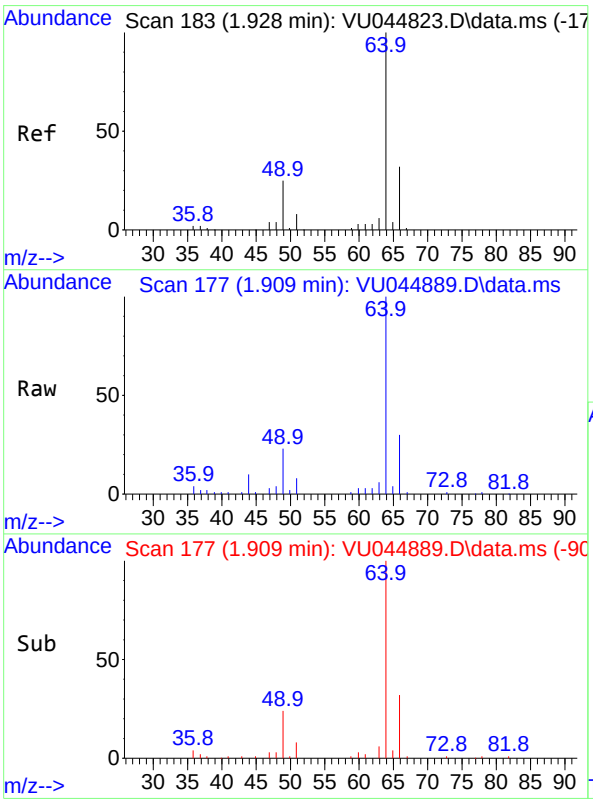


#5
Bromomethane
Concen: 10.298 ug/l
RT: 1.838 min Scan# 155
Delta R.T. -0.010 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 94 Resp: 17252

Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.5	111.7

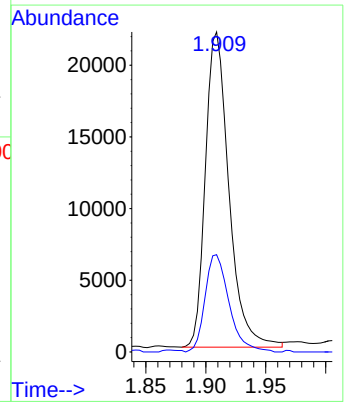




#6
Chloroethane
Concen: 17.431 ug/l
RT: 1.909 min Scan# 177
Delta R.T. -0.019 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 64 Resp: 30064

Ion	Ratio	Lower	Upper
64	100		
66	30.9	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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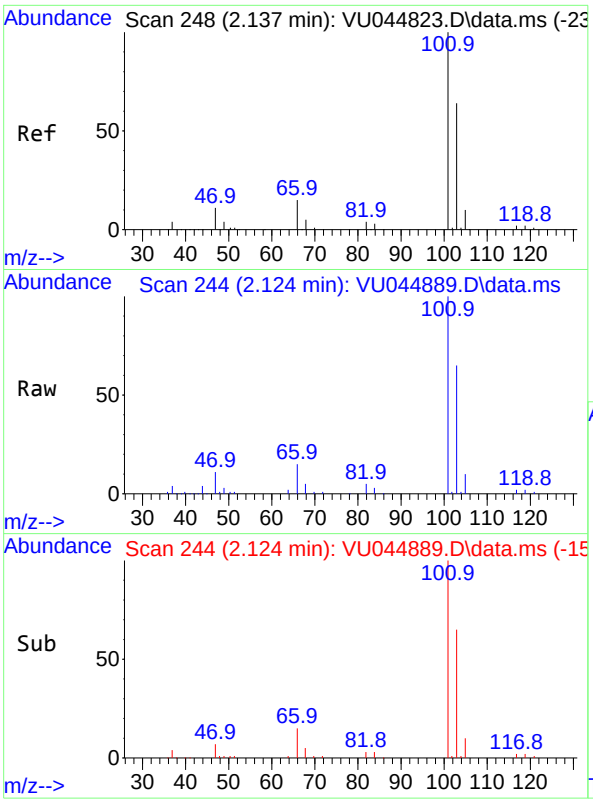
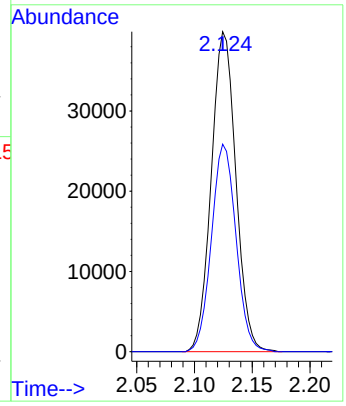
9/28/2021 7:04:49 PM

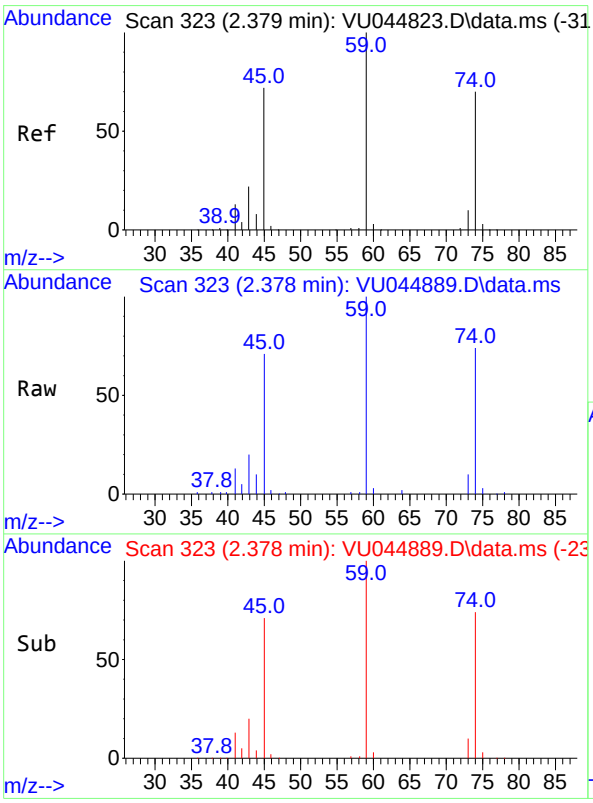


#7
Trichlorofluoromethane
Concen: 18.976 ug/l
RT: 2.124 min Scan# 244
Delta R.T. -0.013 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:101 Resp: 59078

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.2	76.8

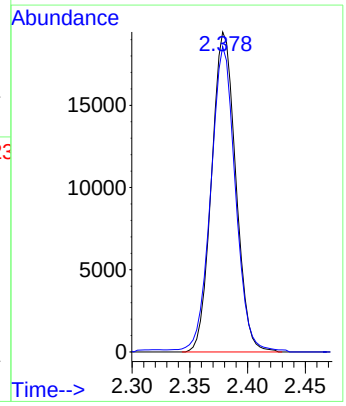




#8
Diethyl Ether
Concen: 19.823 ug/l
RT: 2.378 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

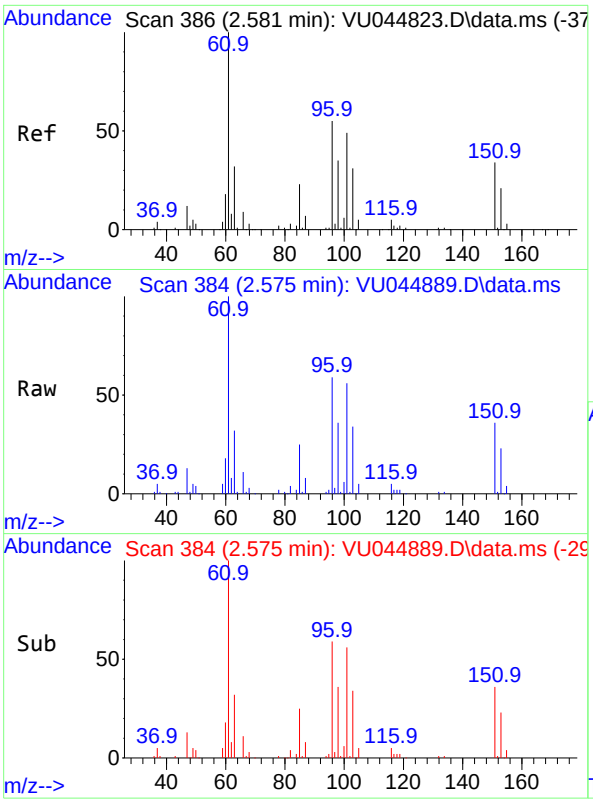
Tgt Ion: 74 Resp: 28252

Ion	Ratio	Lower	Upper
74	100		
45	97.9	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

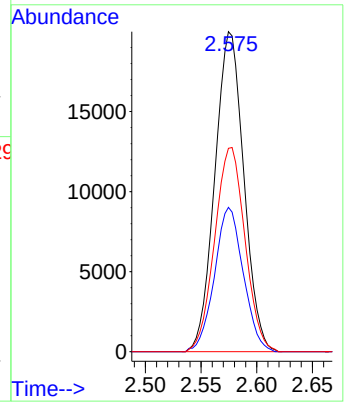
Manual Integrations APPROVED
MMDadoda
9/28/2021 7:04:49 PM

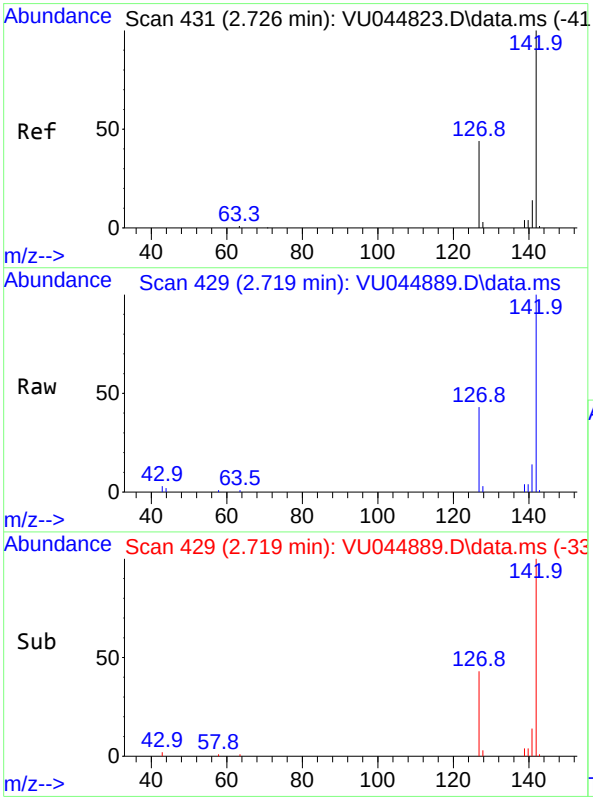


#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.879 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.007 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:101 Resp: 36143

Ion	Ratio	Lower	Upper
101	100		
85	44.8	37.2	55.8
151	66.9	55.8	83.8

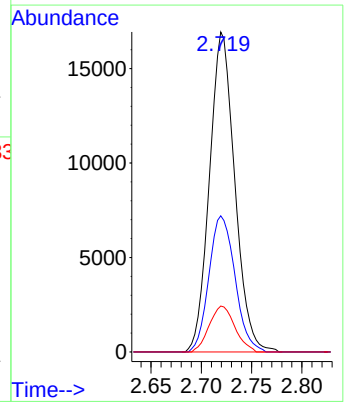




#10
Methyl Iodide
Concen: 15.006 ug/l
RT: 2.719 min Scan# 429
Delta R.T. -0.007 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:142 Resp: 29648

Ion	Ratio	Lower	Upper
142	100		
127	43.7	35.6	53.4
141	14.6	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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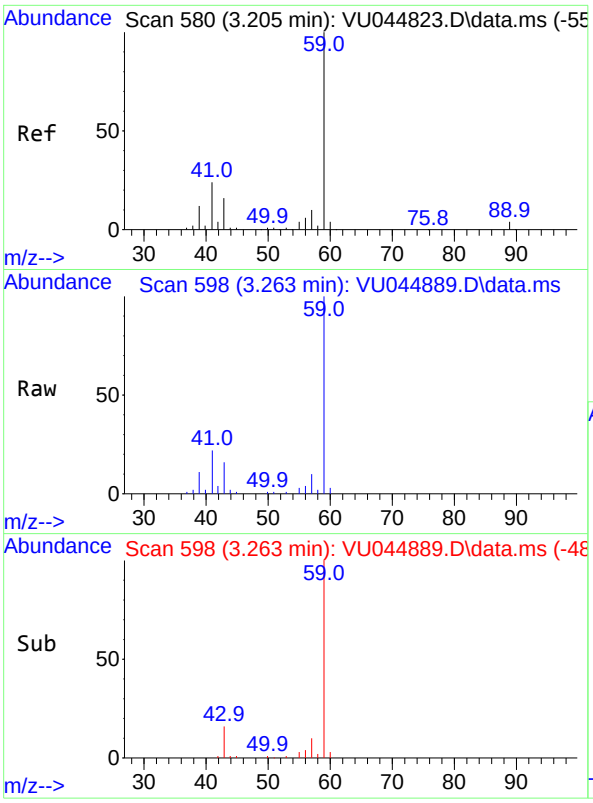
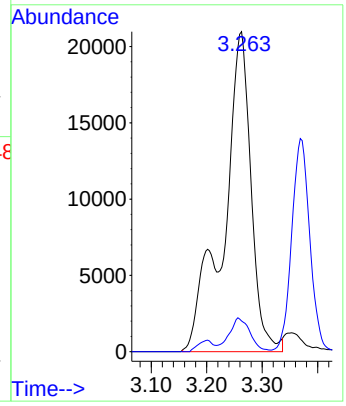
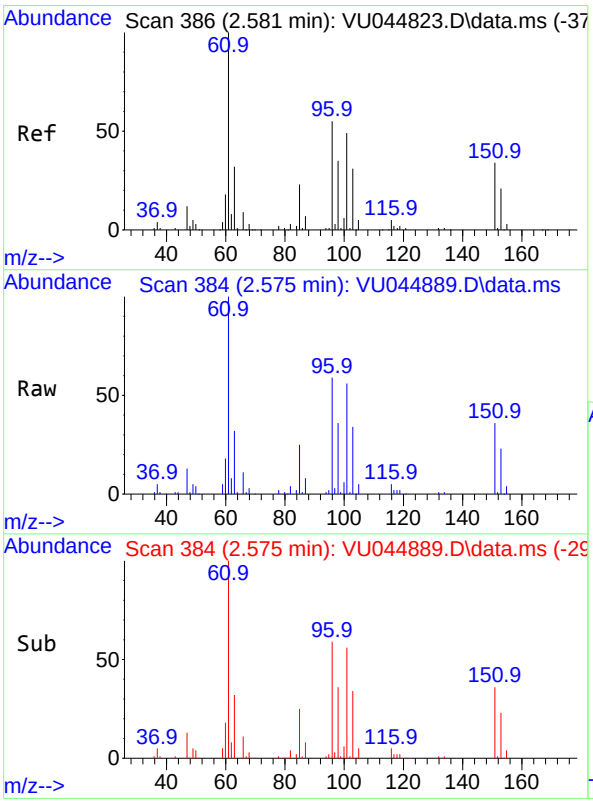


#11
Tert butyl alcohol
Concen: 94.735 ug/l m
RT: 3.263 min Scan# 598
Delta R.T. 0.058 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 59 Resp: 72120

Ion	Ratio	Lower	Upper
59	100		
57	2.0	8.3	12.5#

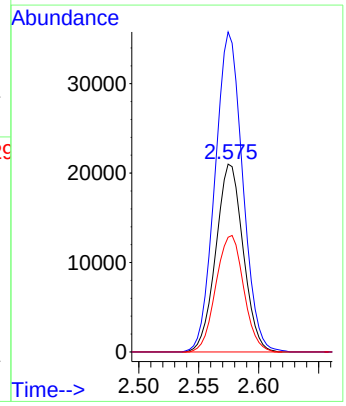




#12
1,1-Dichloroethene
Concen: 18.483 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.007 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 96 Resp: 33259

Ion	Ratio	Lower	Upper
96	100		
61	170.4	145.4	218.0
98	61.1	50.9	76.3



Instrument :
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ClientSampleId :
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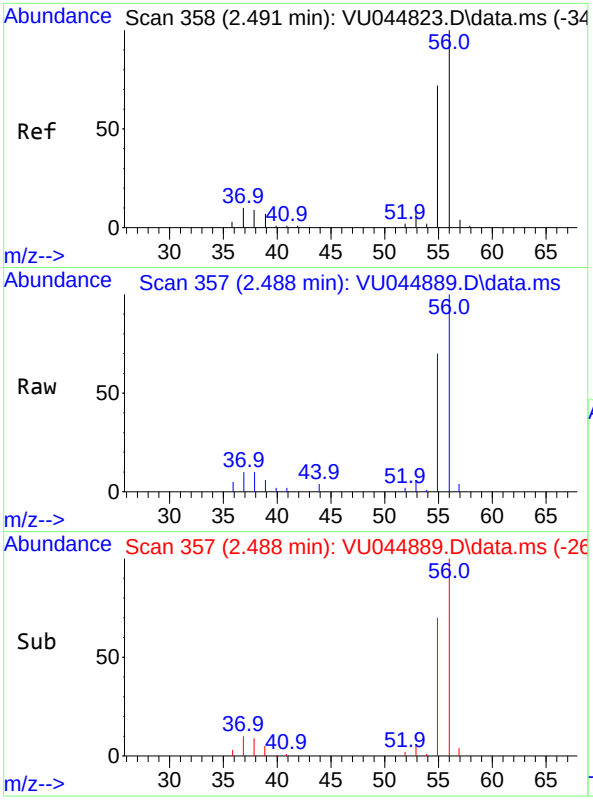
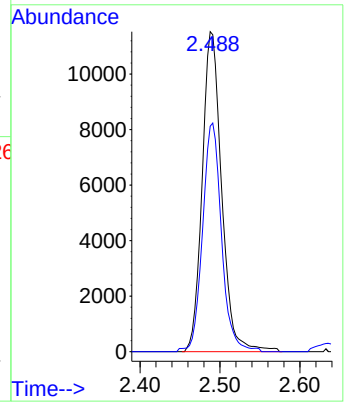
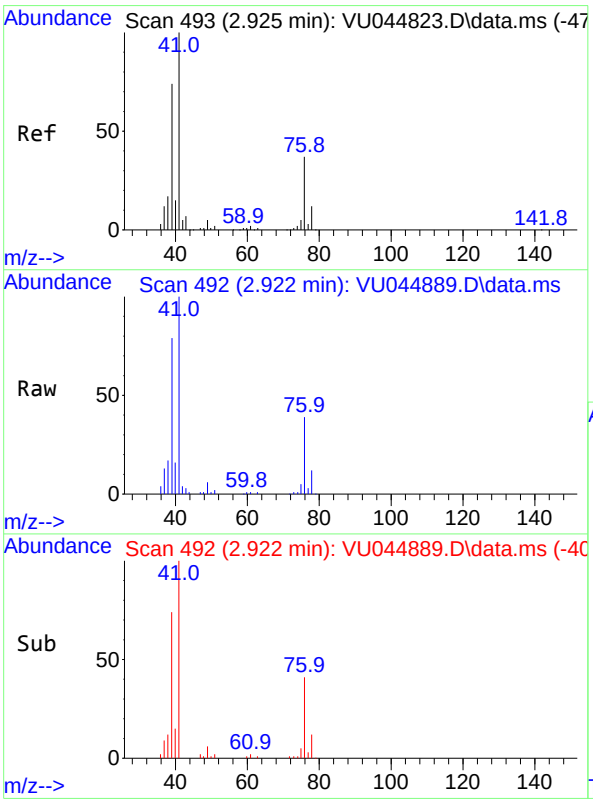


#13
Acrolein
Concen: 94.938 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 56 Resp: 19551

Ion	Ratio	Lower	Upper
56	100		
55	69.5	57.4	86.0

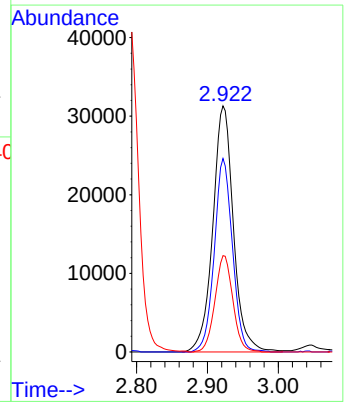




#14
Allyl chloride
Concen: 18.145 ug/l
RT: 2.922 min Scan# 492
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 41 Resp: 63374

Ion	Ratio	Lower	Upper
41	100		
39	69.2	53.0	79.6
76	33.9	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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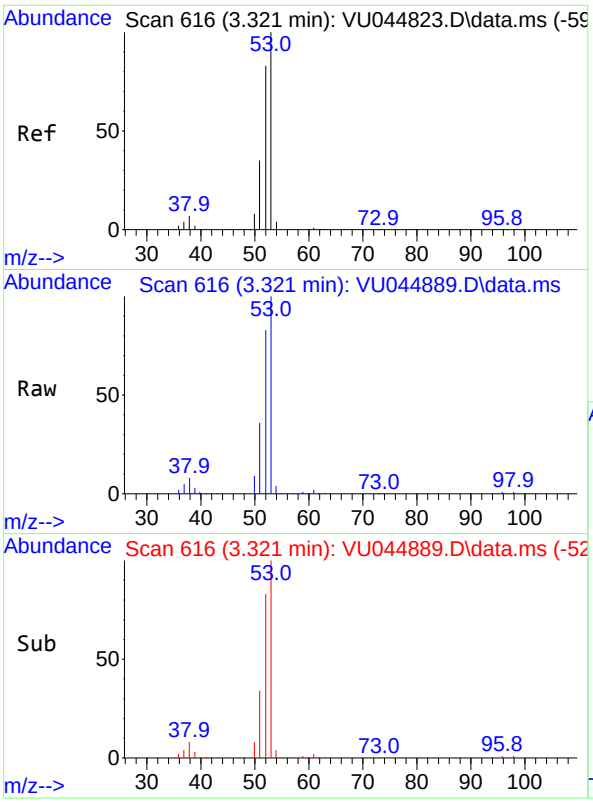
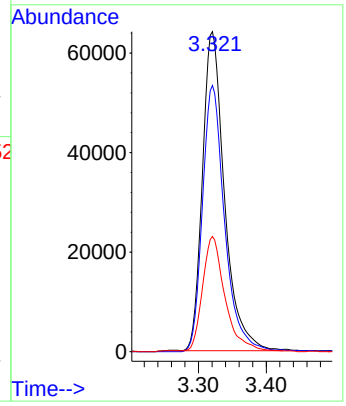
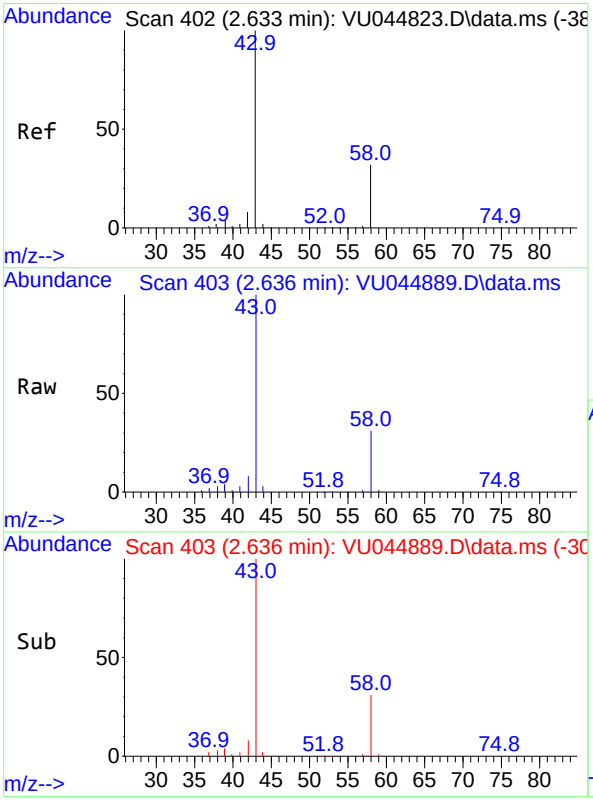


#15
Acrylonitrile
Concen: 91.098 ug/l
RT: 3.321 min Scan# 616
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 53 Resp: 144867

Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.0	99.0
51	37.2	28.6	42.8

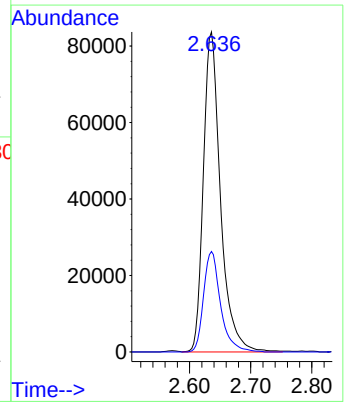




#16
Acetone
Concen: 110.856 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 163096

Ion	Ratio	Lower	Upper
43	100		
58	31.4	25.2	37.8



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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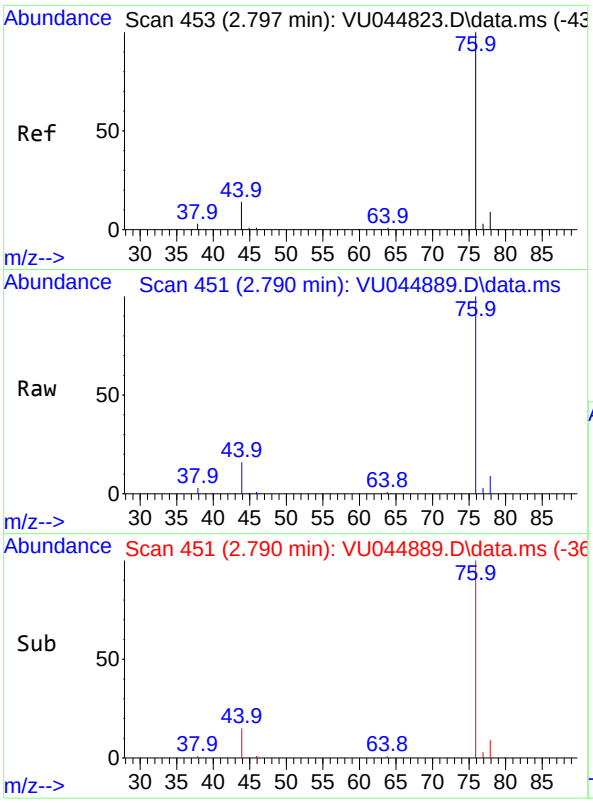
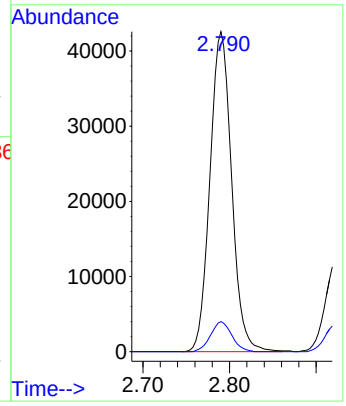
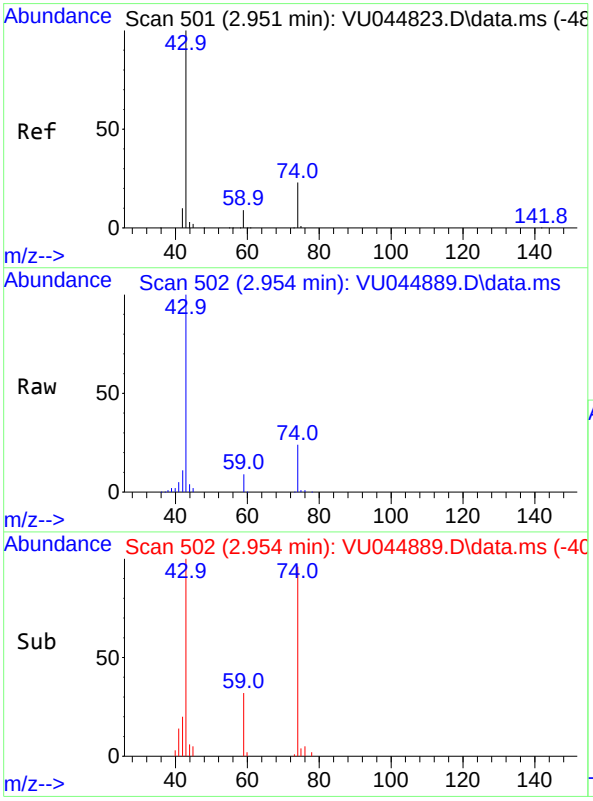


#17
Carbon Disulfide
Concen: 14.605 ug/l
RT: 2.790 min Scan# 451
Delta R.T. -0.007 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 76 Resp: 73929

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

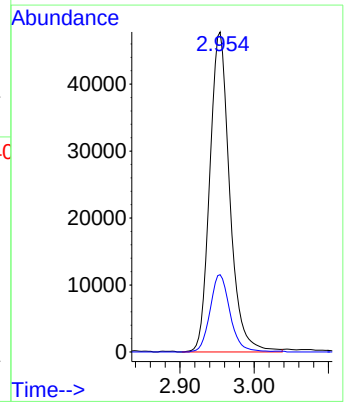




#18
Methyl Acetate
Concen: 18.096 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 88946

Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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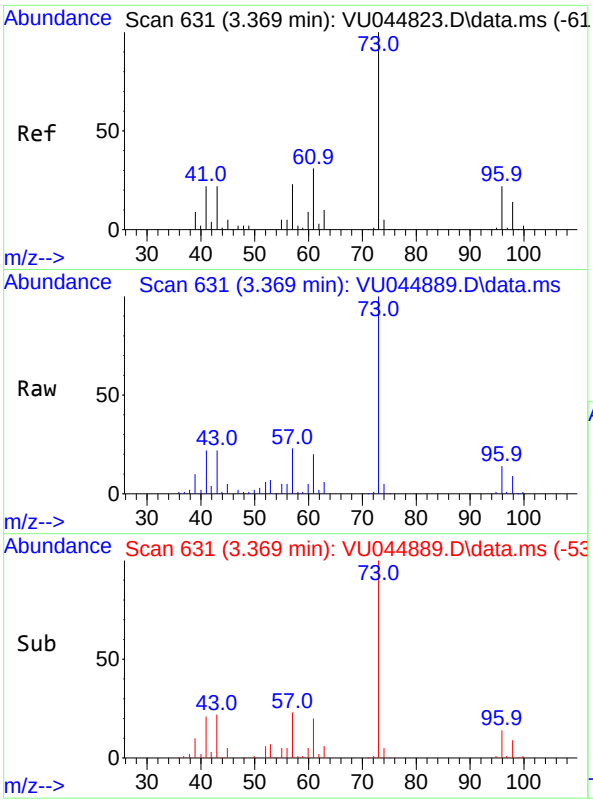
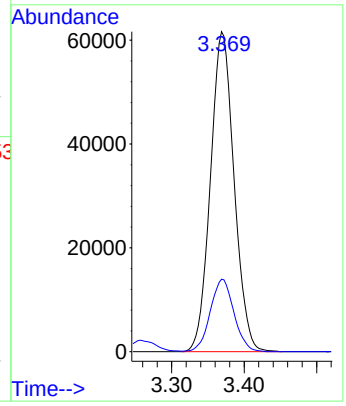
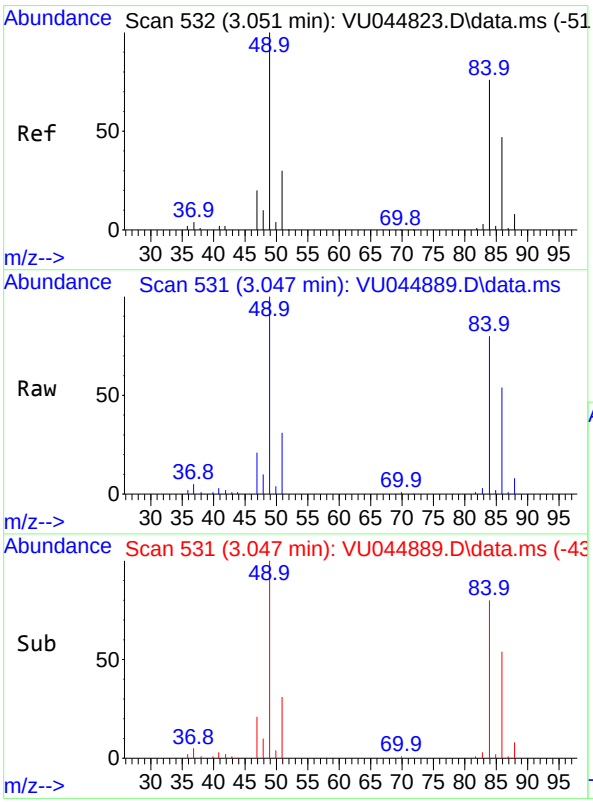


#19
Methyl tert-butyl Ether
Concen: 20.759 ug/l
RT: 3.369 min Scan# 631
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 73 Resp: 139488

Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.2	27.2

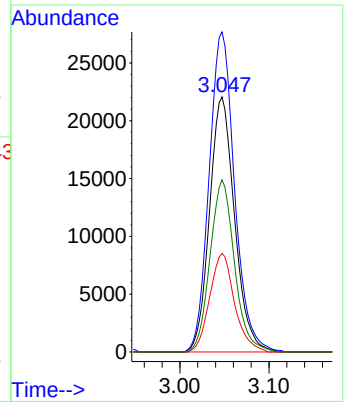




#20
Methylene Chloride
Concen: 18.129 ug/l
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 84 Resp: 43177

Ion	Ratio	Lower	Upper
84	100		
49	125.5	104.9	157.3
51	38.6	31.8	47.8
86	67.5	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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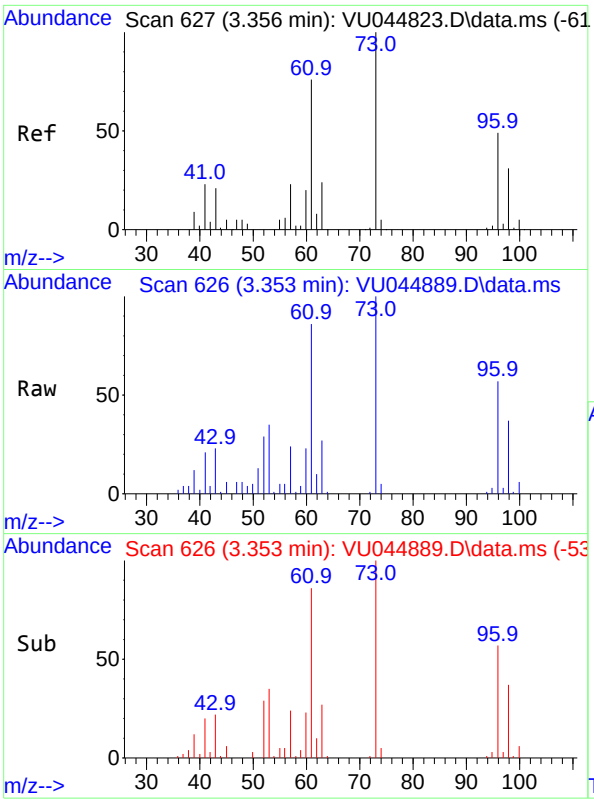
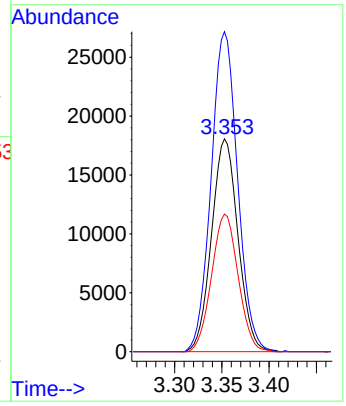
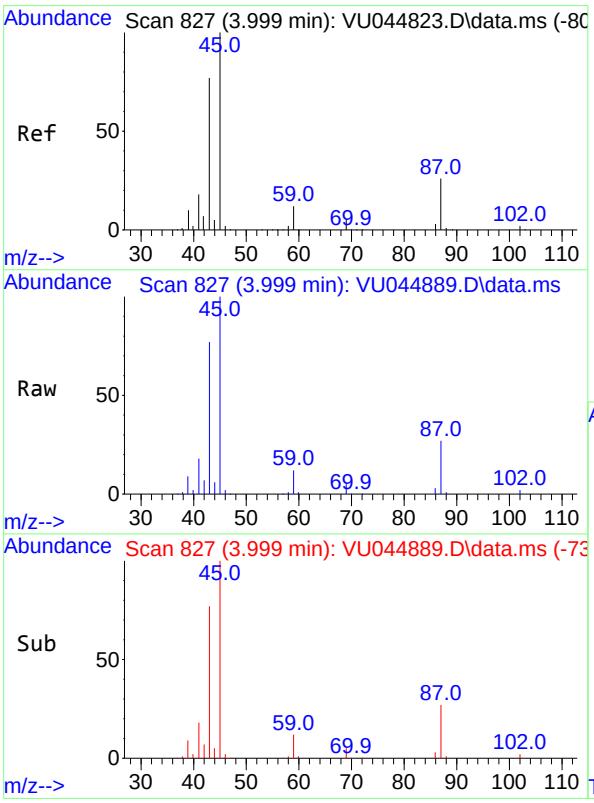


#21
trans-1,2-Dichloroethene
Concen: 18.249 ug/l
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 96 Resp: 35159

Ion	Ratio	Lower	Upper
96	100		
61	150.4	123.2	184.8
98	64.7	51.0	76.6

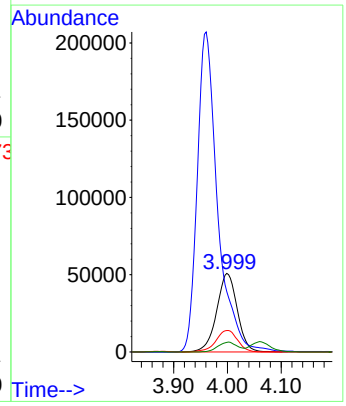




#22
Diisopropyl ether
Concen: 19.593 ug/l
RT: 3.999 min Scan# 827
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 45 Resp: 135208

Ion	Ratio	Lower	Upper
45	100		
43	75.3	62.3	93.5
87	27.3	21.0	31.4
59	12.3	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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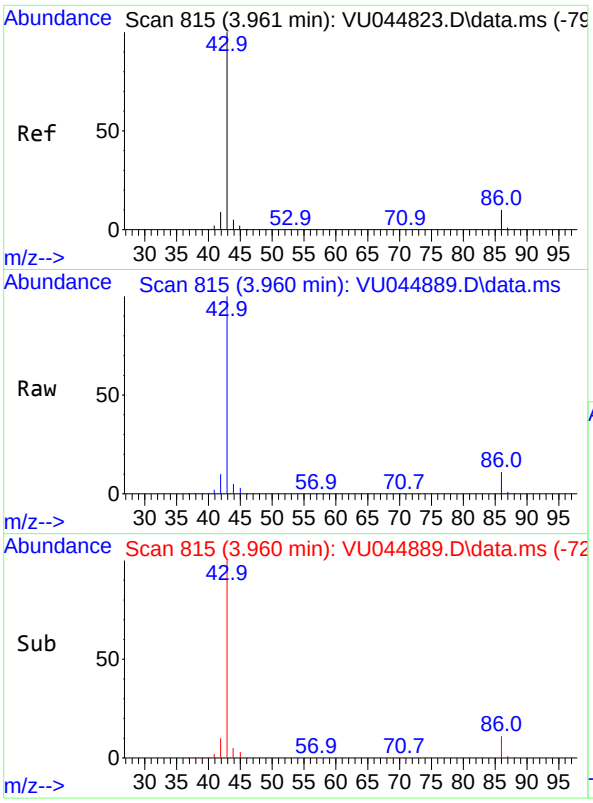
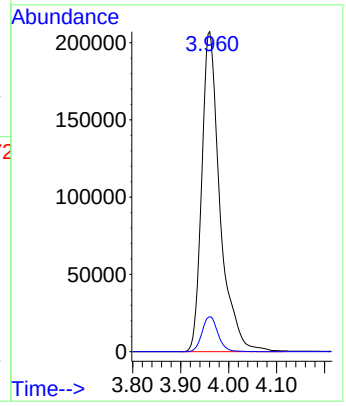
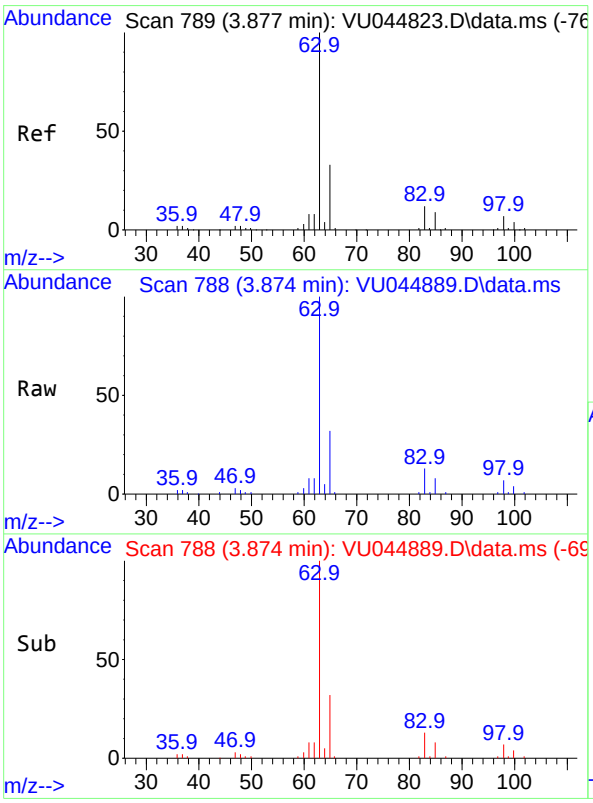


#23
Vinyl Acetate
Concen: 96.631 ug/l
RT: 3.960 min Scan# 815
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 546838

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.4

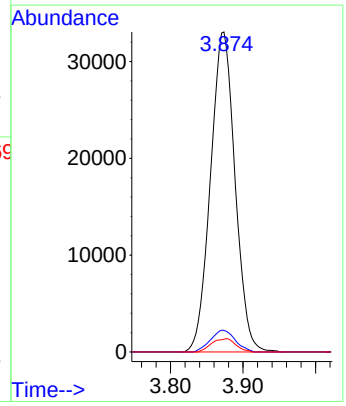




#24
1,1-Dichloroethane
Concen: 19.411 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 63 Resp: 77749

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.4
100	4.0	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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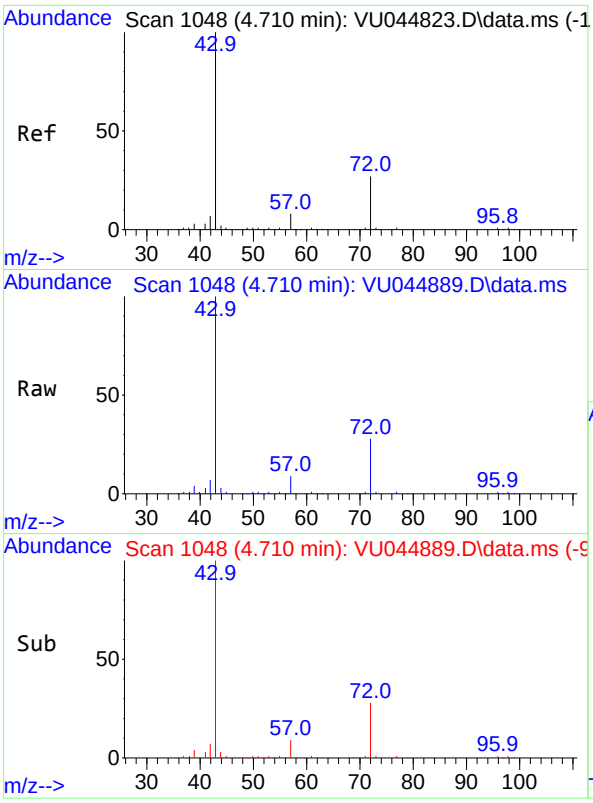
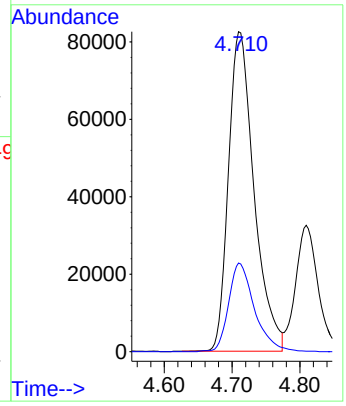
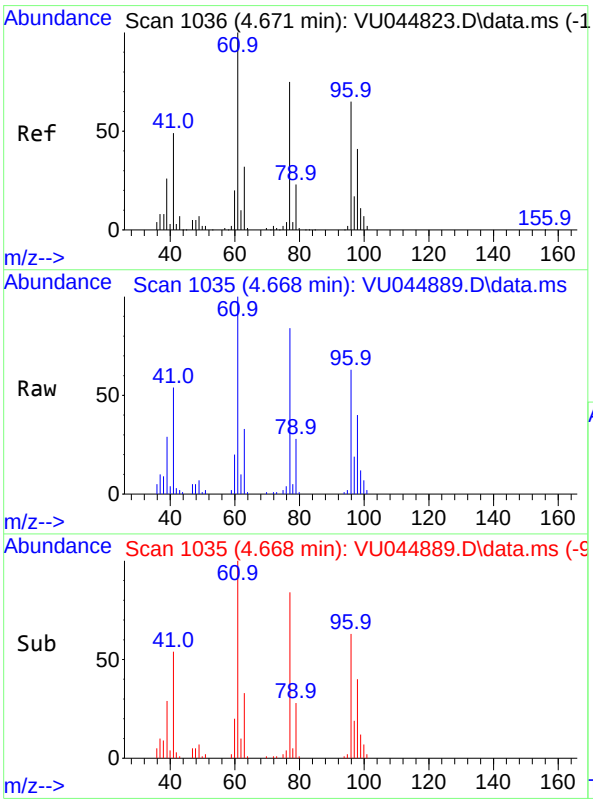


#25
2-Butanone
Concen: 96.972 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 216473

Ion	Ratio	Lower	Upper
43	100		
72	27.8	21.3	31.9

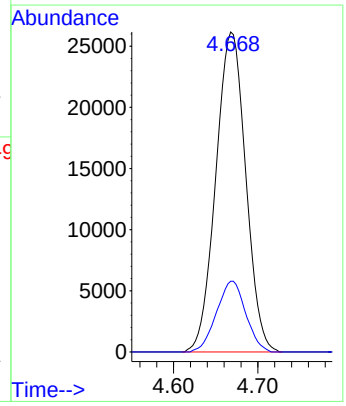




#26
2,2-Dichloropropane
Concen: 21.448 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 77 Resp: 64426

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.8	32.4



Instrument :
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ClientSampleId :
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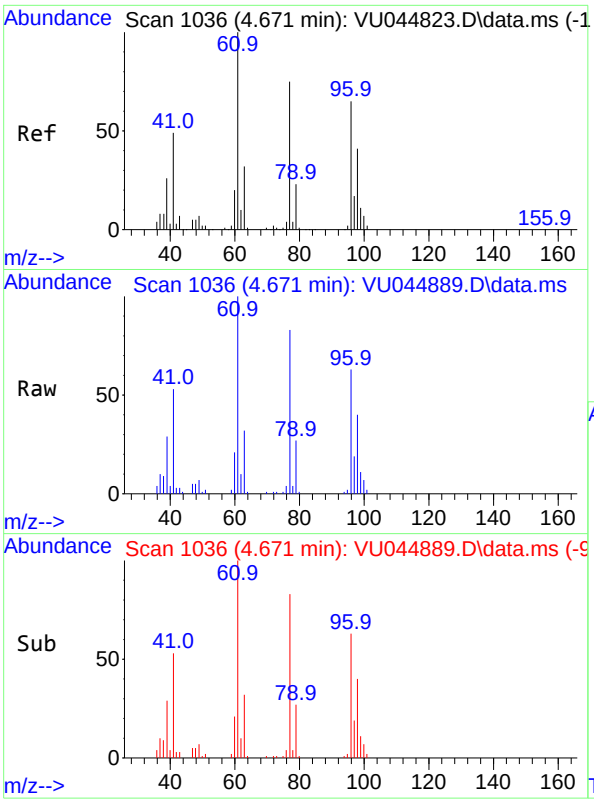
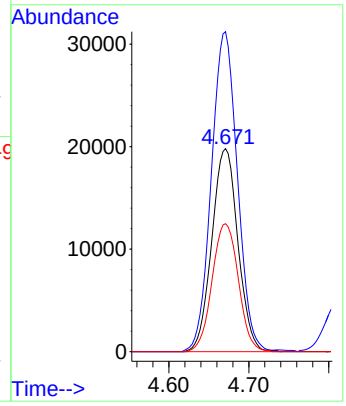
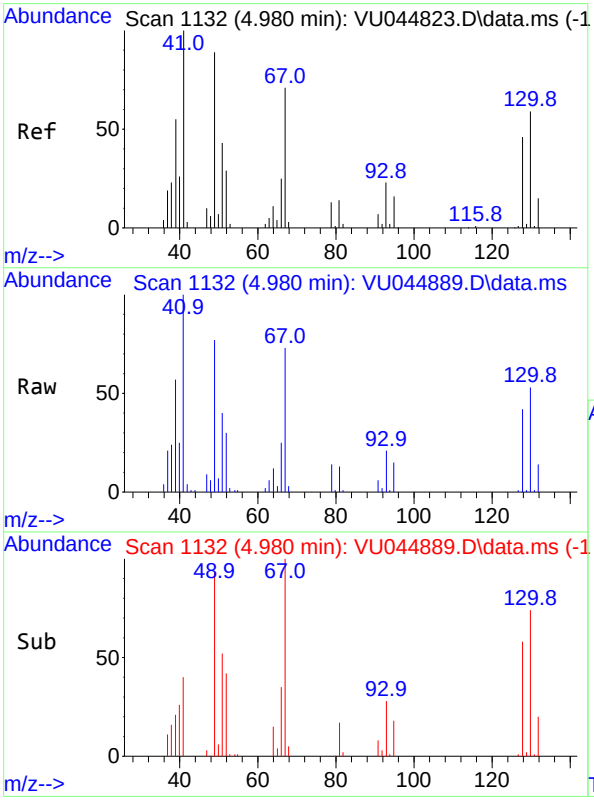


#27
cis-1,2-Dichloroethene
Concen: 19.177 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 96 Resp: 44936

Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	313.4
98	63.4	0.0	127.0

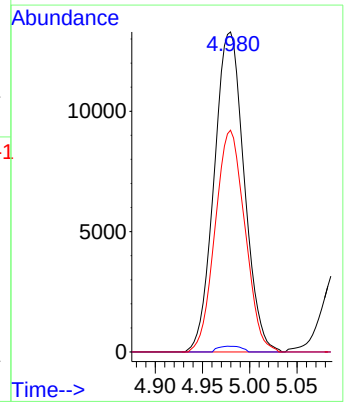




#28
Bromochloromethane
Concen: 15.433 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 49 Resp: 29375

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.2
130	68.8	53.4	80.2



Instrument :
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ClientSampleId :
VU0927WBS01

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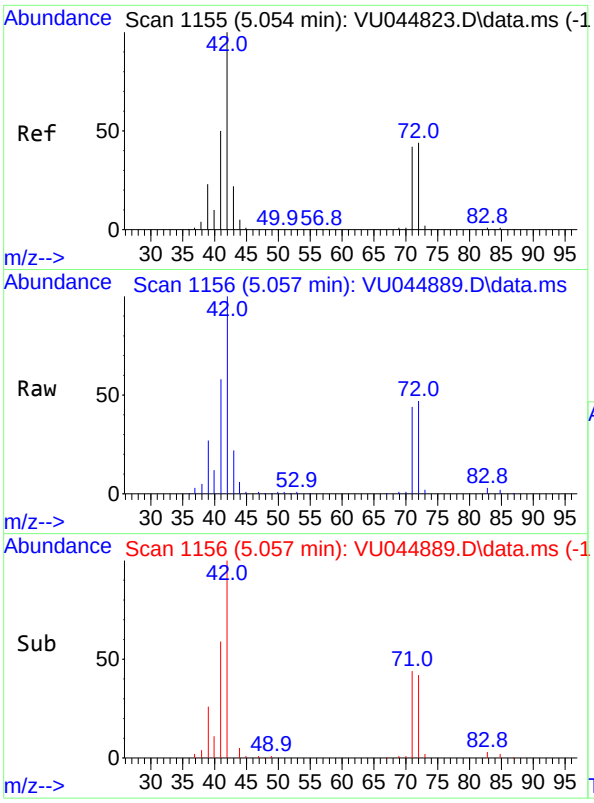
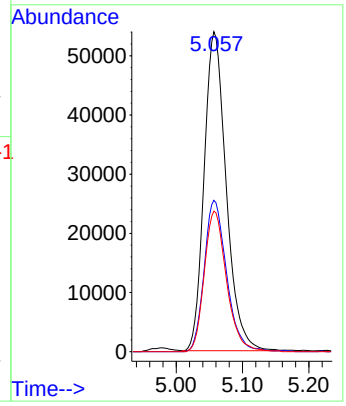
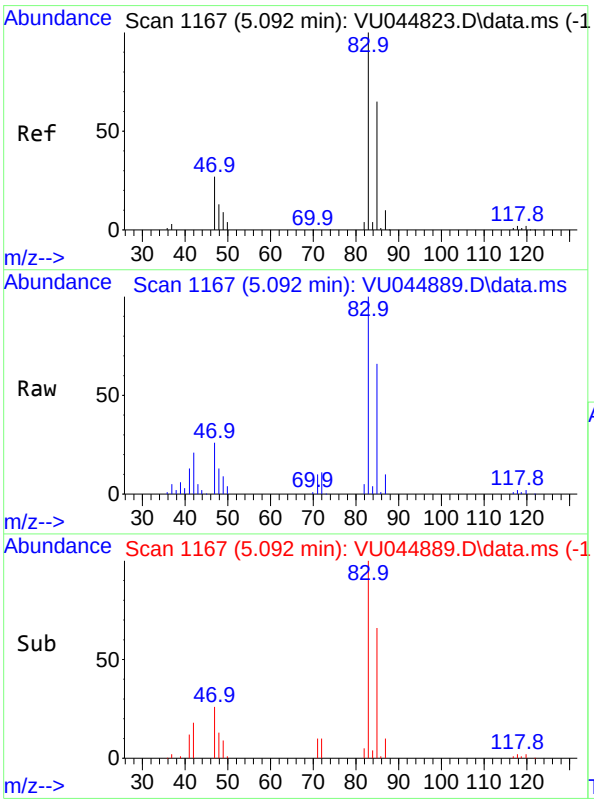


#29
Tetrahydrofuran
Concen: 88.863 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 42 Resp: 124800

Ion	Ratio	Lower	Upper
42	100		
72	48.0	36.2	54.4
71	44.5	34.1	51.1

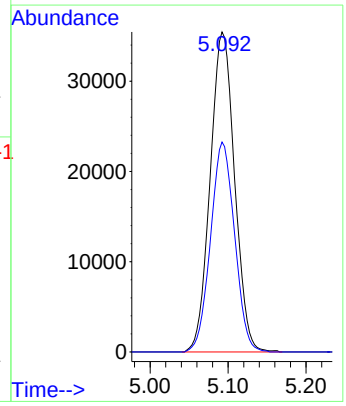




#30
Chloroform
Concen: 19.134 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 83 Resp: 77062

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.1	78.1



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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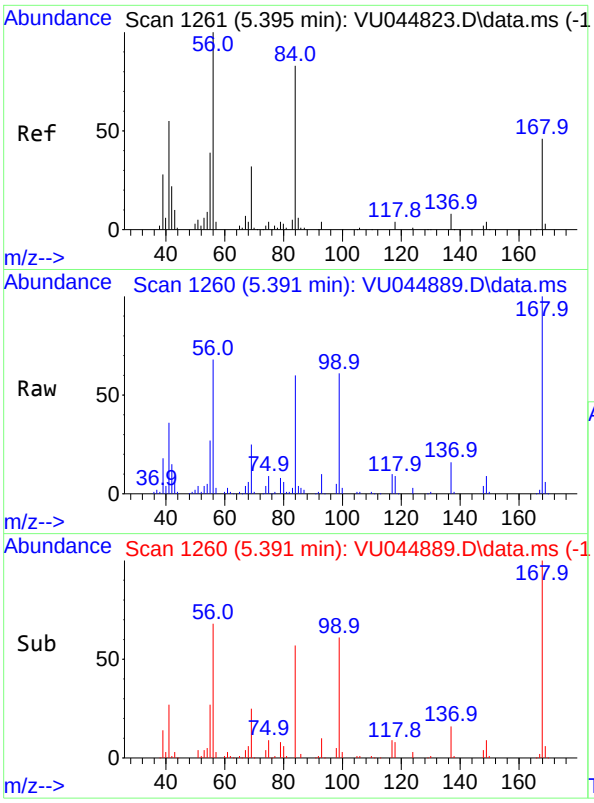
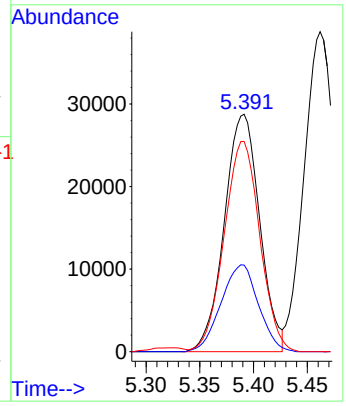
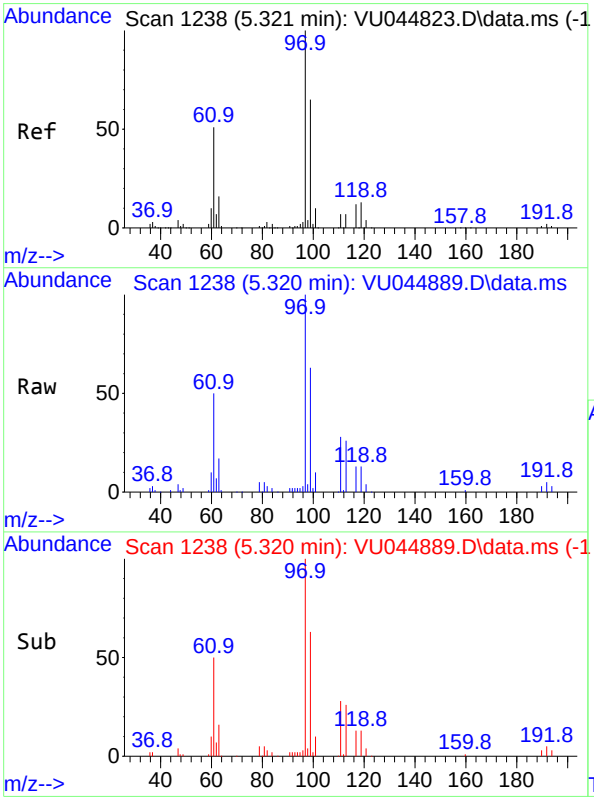


#31
Cyclohexane
Concen: 17.587 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 56 Resp: 65858

Ion	Ratio	Lower	Upper
56	100		
69	36.4	25.2	37.8
84	87.3	66.4	99.6

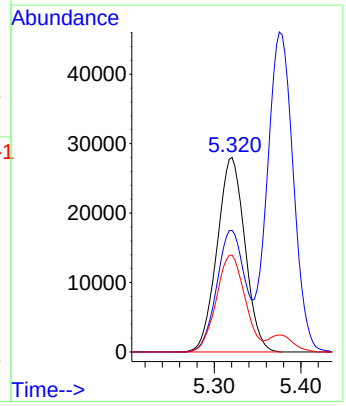




#32
1,1,1-Trichloroethane
Concen: 19.221 ug/l
RT: 5.320 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 97 Resp: 62548

Ion	Ratio	Lower	Upper
97	100		
99	62.1	50.9	76.3
61	51.6	40.7	61.1



Instrument :
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ClientSampleId :
VU0927WBS01

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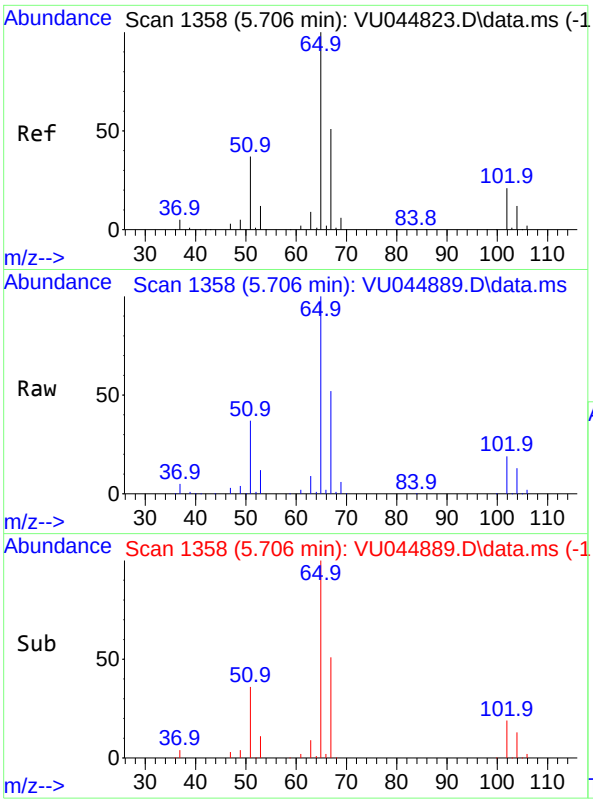
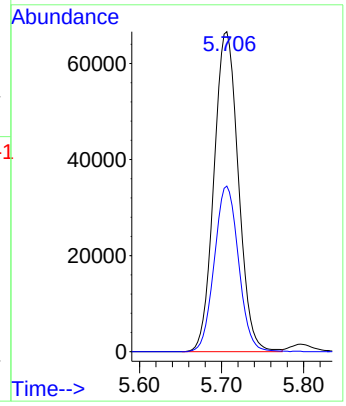
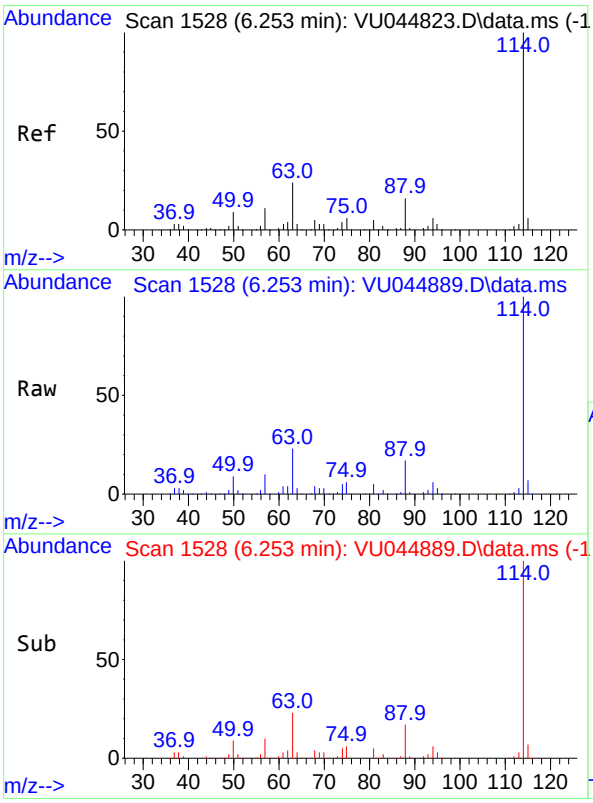


#33
1,2-Dichloroethane-d4
Concen: 52.815 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 65 Resp: 137755

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.8

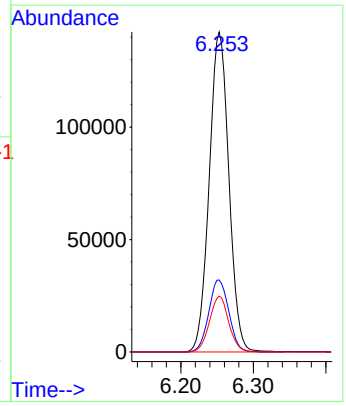




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:114 Resp: 267673

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	47.8
88	17.5	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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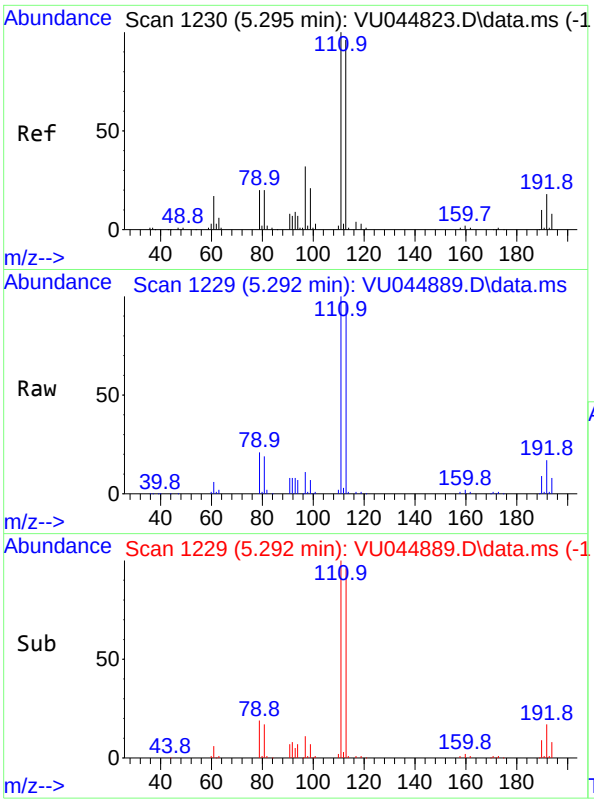
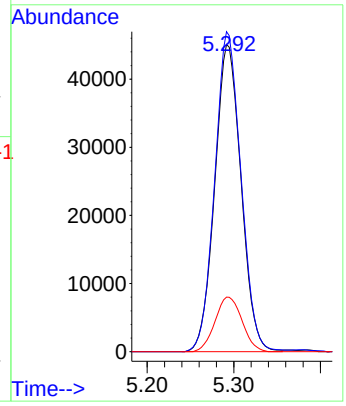
9/28/2021 7:04:49 PM

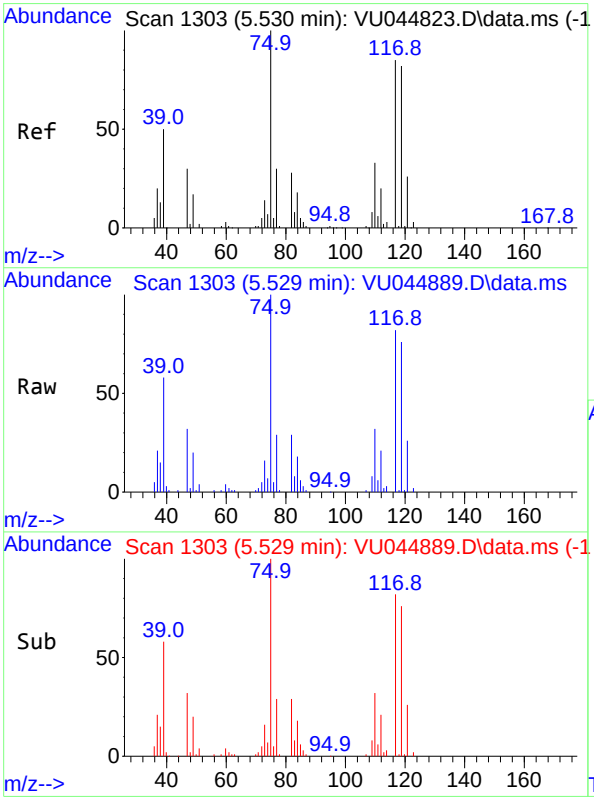


#35
Dibromofluoromethane
Concen: 51.818 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:113 Resp: 95152

Ion	Ratio	Lower	Upper
113	100		
111	103.6	84.1	126.1
192	18.2	14.8	22.2

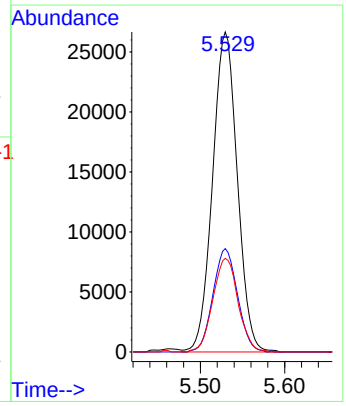




#36
1,1-Dichloropropene
Concen: 19.146 ug/l
RT: 5.529 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 75 Resp: 54376

Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.3	48.9
77	29.8	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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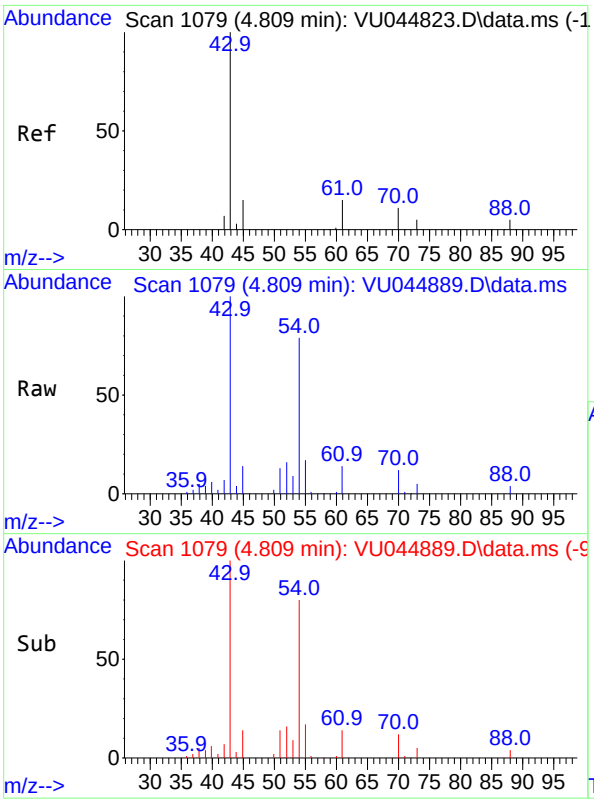
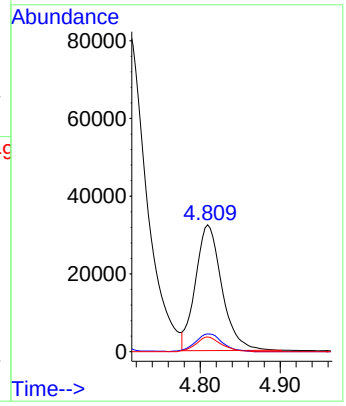
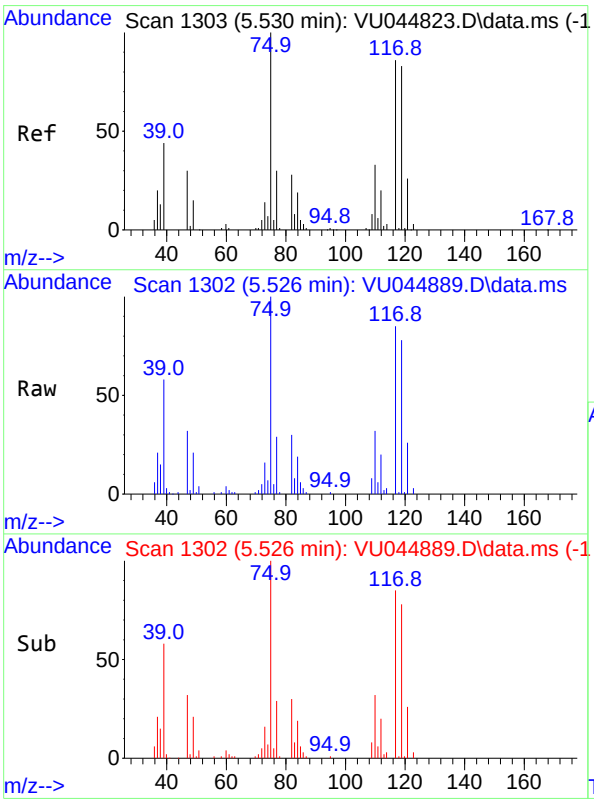


#37
Ethyl Acetate
Concen: 17.807 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 74204

Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.9	16.3
70	11.3	8.2	12.4

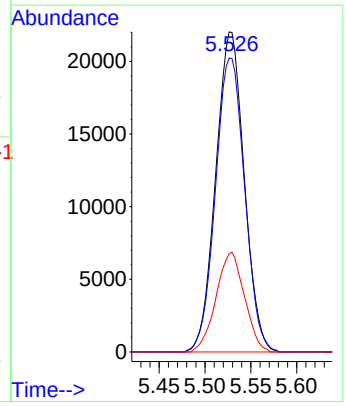




#38
Carbon Tetrachloride
Concen: 18.715 ug/l
RT: 5.526 min Scan# 1302
Delta R.T. -0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:117 Resp: 47518

Ion	Ratio	Lower	Upper
117	100		
119	91.8	77.4	116.2
121	30.7	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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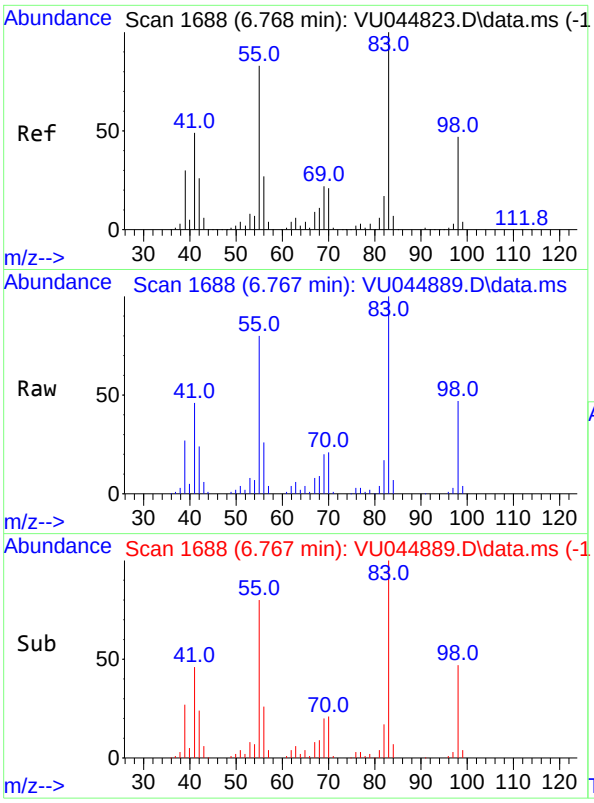
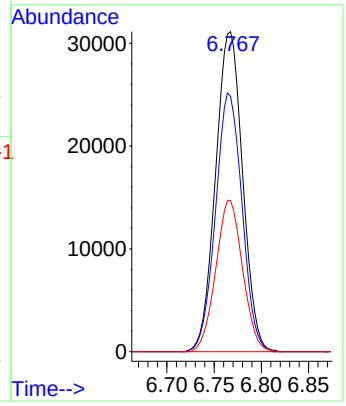
9/28/2021 7:04:49 PM

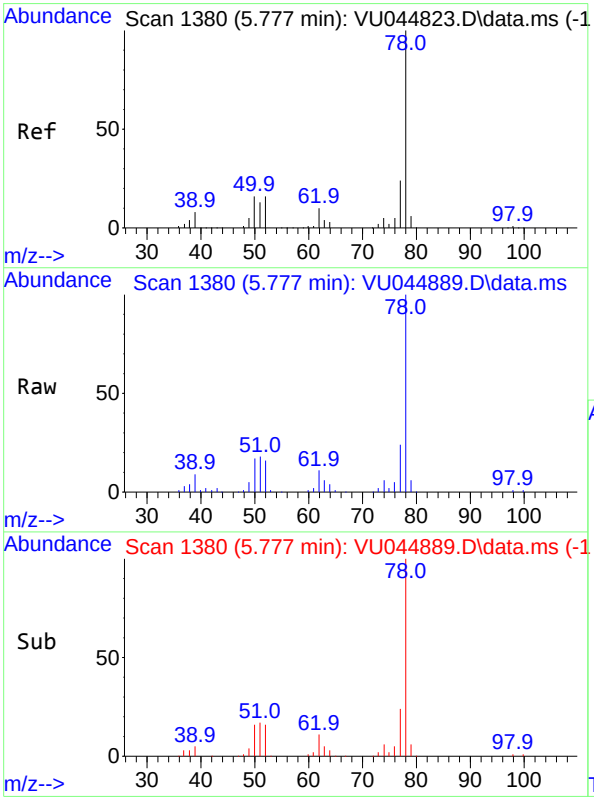


#39
Methylcyclohexane
Concen: 19.277 ug/l
RT: 6.767 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 83 Resp: 61921

Ion	Ratio	Lower	Upper
83	100		
55	79.8	66.2	99.4
98	47.2	37.5	56.3

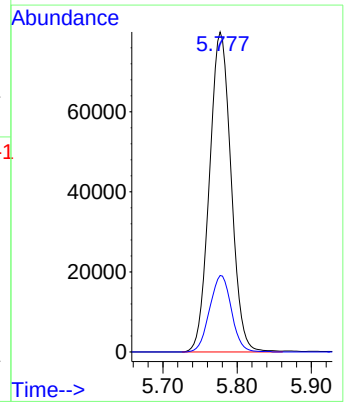




#40
Benzene
Concen: 18.646 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 78 Resp: 161449

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7



Instrument :
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ClientSampleId :
VU0927WBS01

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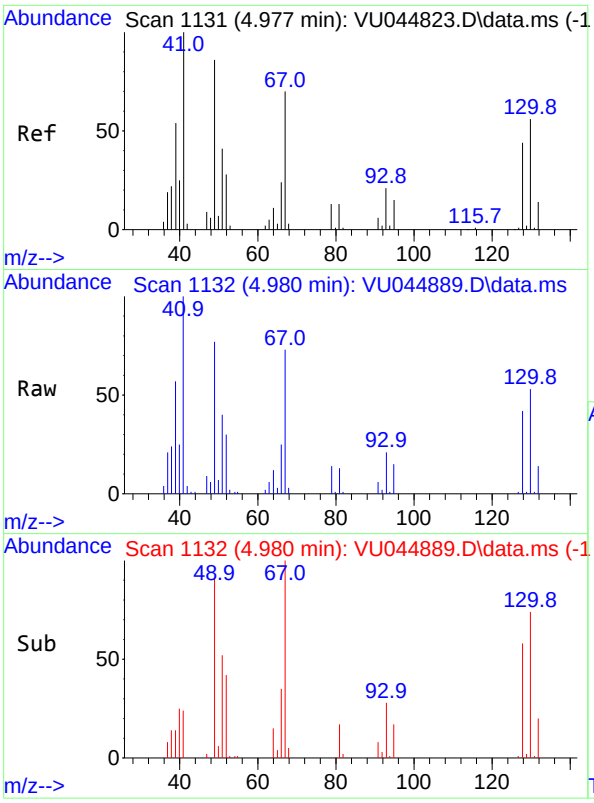
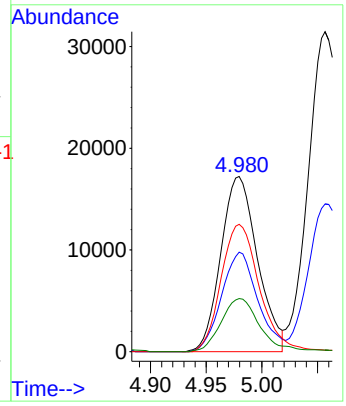
9/28/2021 7:04:49 PM

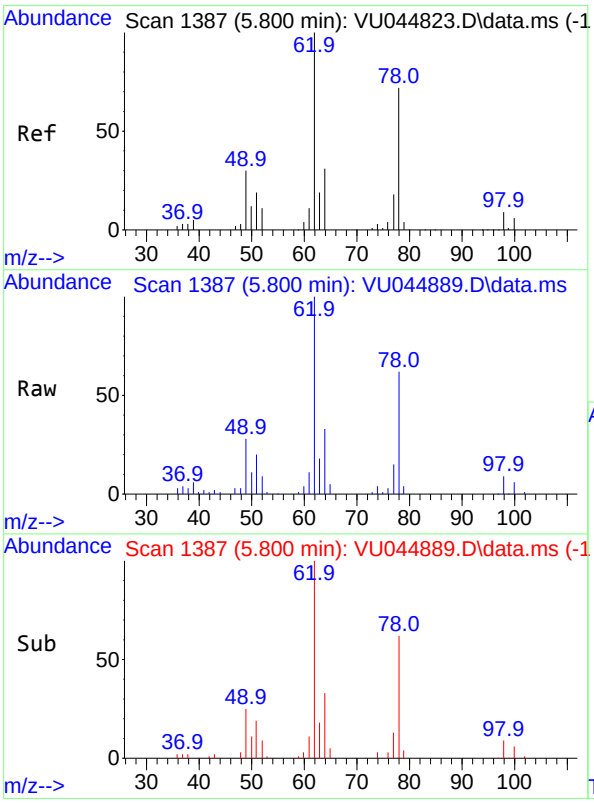


#41
Methacrylonitrile
Concen: 18.988 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 41 Resp: 39497

Ion	Ratio	Lower	Upper
41	100		
39	56.6	44.4	66.6
67	76.0	58.1	87.1
52	32.4	23.8	35.8

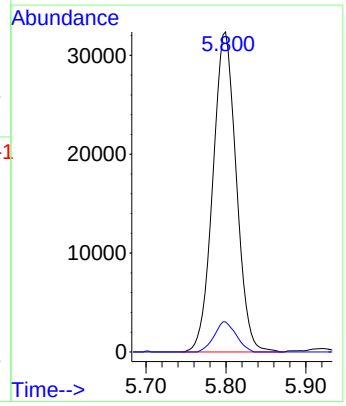




#42
1,2-Dichloroethane
Concen: 19.314 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 62 Resp: 65793

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.8



Instrument :
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ClientSampleId :
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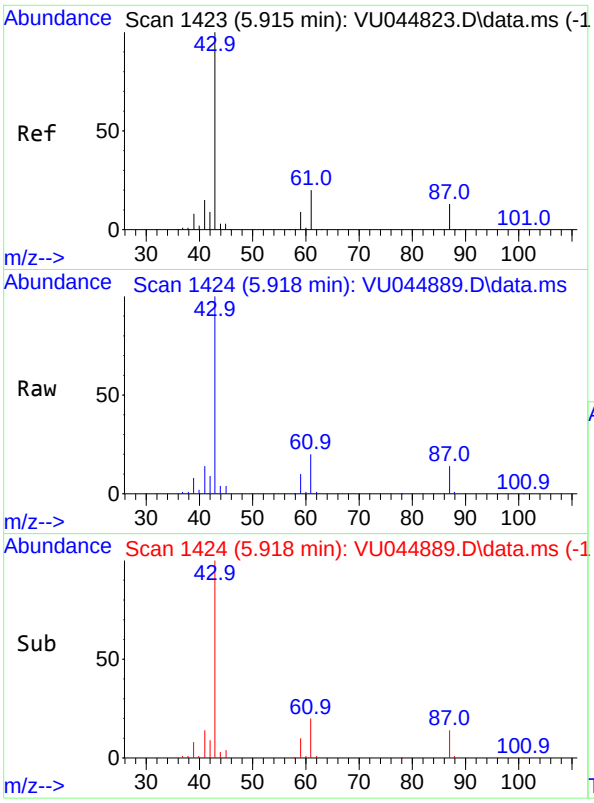
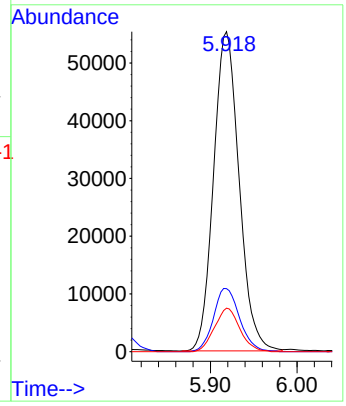
9/28/2021 7:04:49 PM

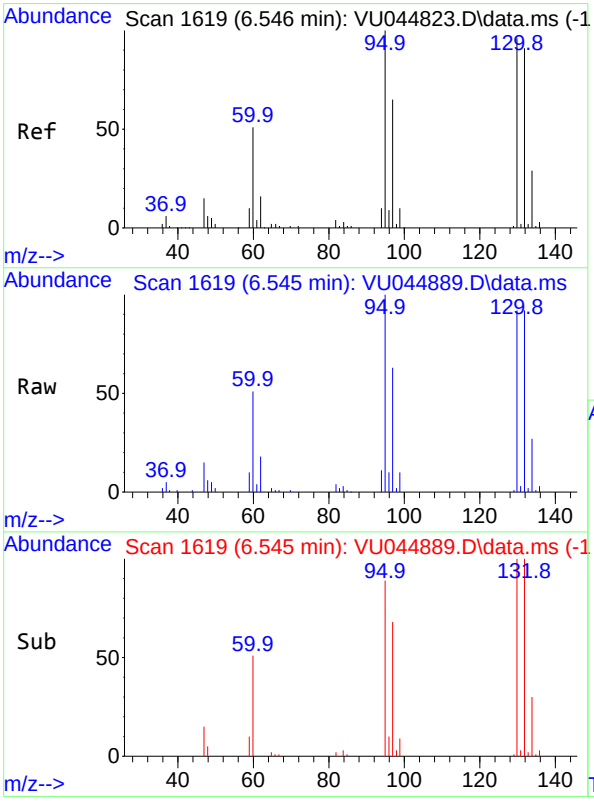


#43
Isopropyl Acetate
Concen: 19.423 ug/l
RT: 5.918 min Scan# 1424
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 113237

Ion	Ratio	Lower	Upper
43	100		
61	20.3	16.1	24.1
87	13.5	10.3	15.5

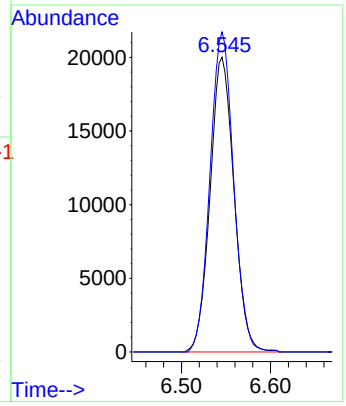




#44
Trichloroethene
Concen: 17.928 ug/l
RT: 6.545 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:130 Resp: 37310

Ion	Ratio	Lower	Upper
130	100		
95	108.6	0.0	209.0



Instrument :
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ClientSampleId :
VU0927WBS01

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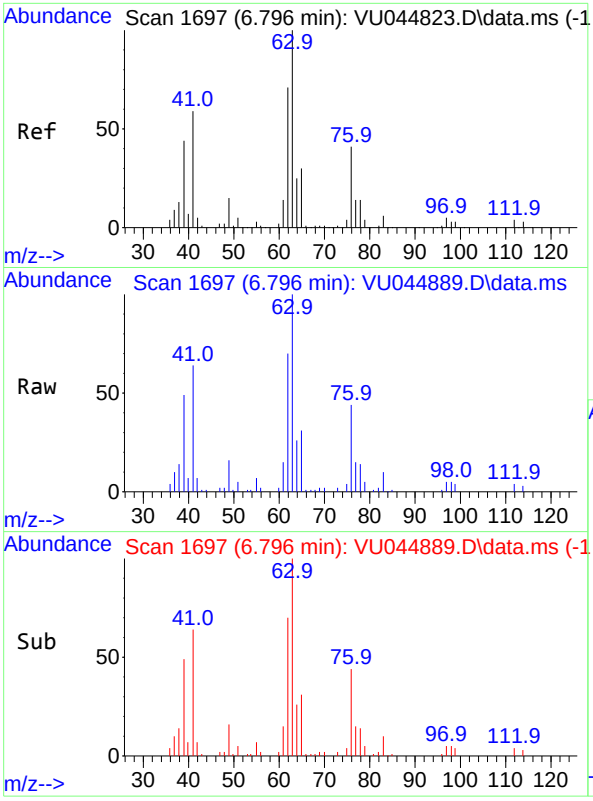
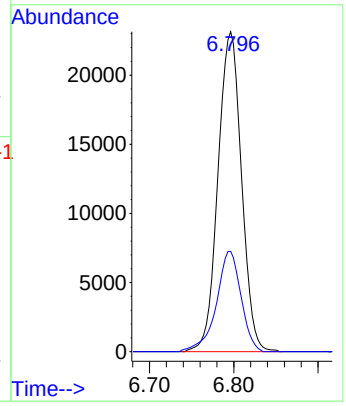
9/28/2021 7:04:49 PM

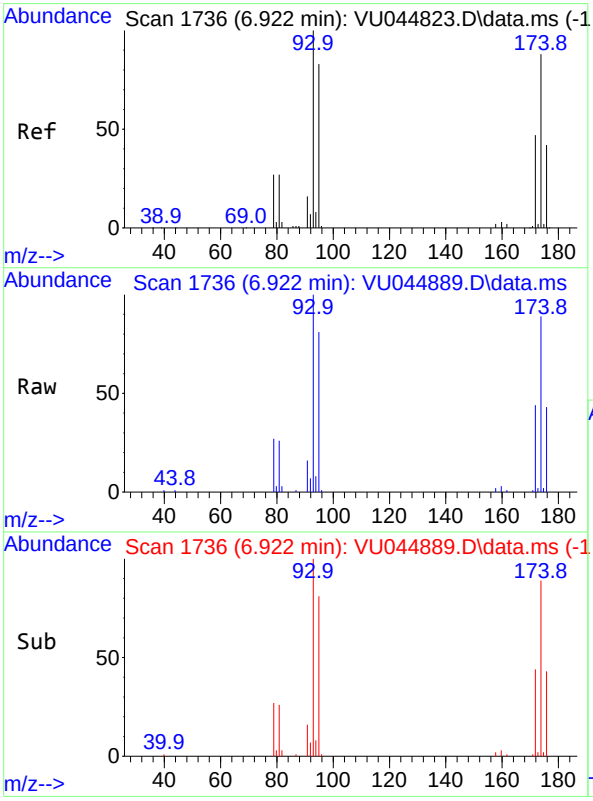


#45
1,2-Dichloropropane
Concen: 19.102 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 63 Resp: 44764

Ion	Ratio	Lower	Upper
63	100		
65	31.4	23.9	35.9

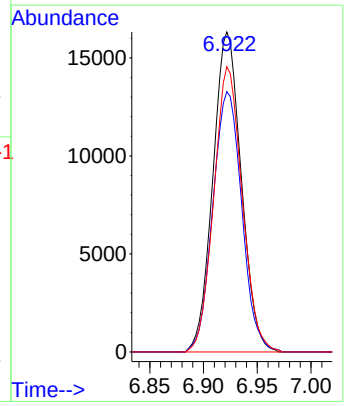




#46
Dibromomethane
Concen: 19.223 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 93 Resp: 29849

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.6	98.4
174	89.3	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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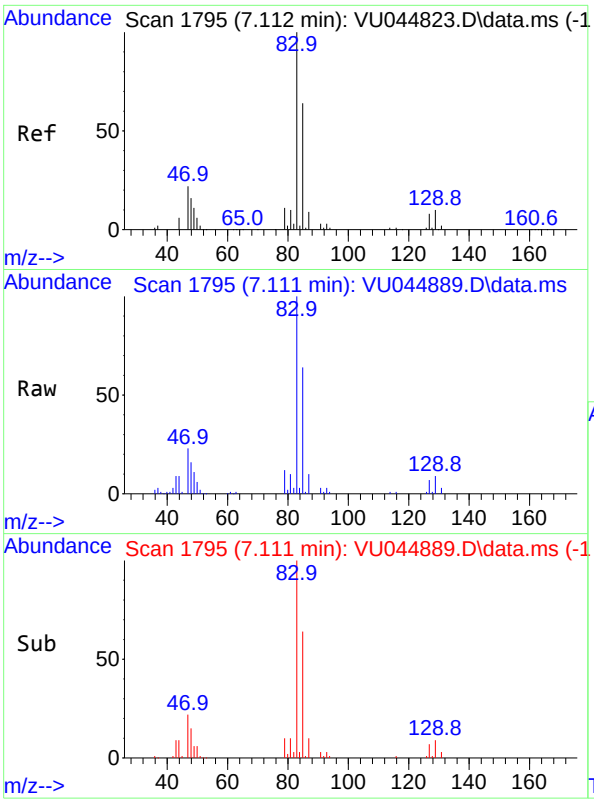
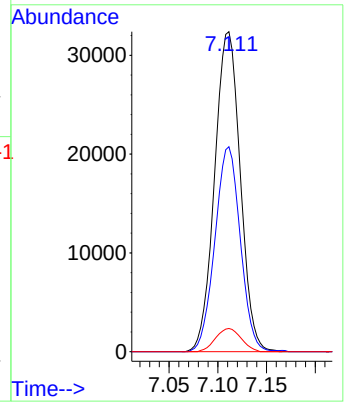
9/28/2021 7:04:49 PM

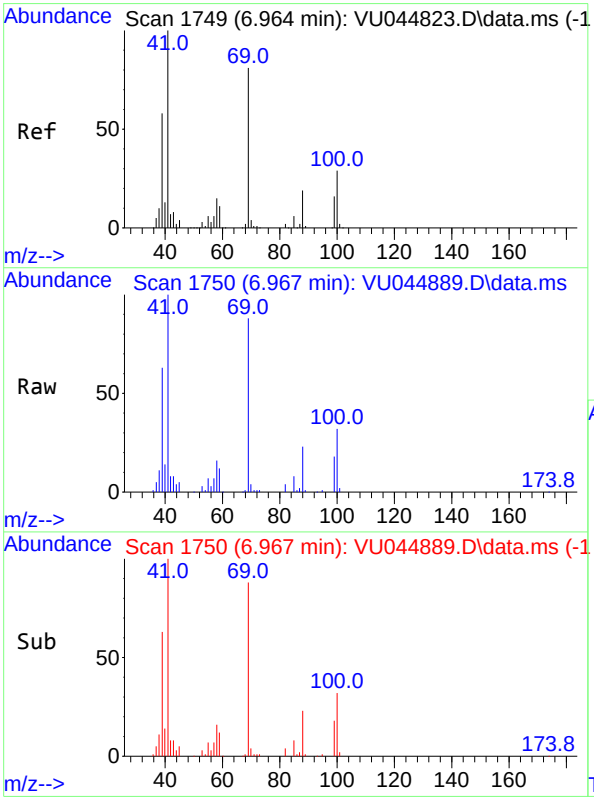


#47
Bromodichloromethane
Concen: 19.374 ug/l
RT: 7.111 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 83 Resp: 59342

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.6	77.4
127	7.3	6.2	9.4

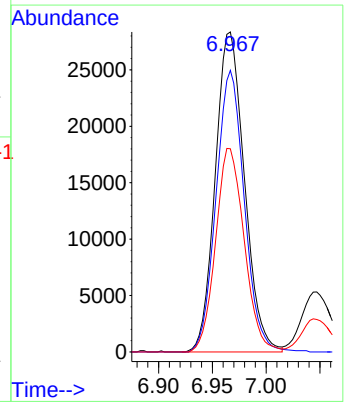




#48
Methyl methacrylate
Concen: 19.398 ug/l
RT: 6.967 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 41 Resp: 53379

Ion	Ratio	Lower	Upper
41	100		
69	85.3	65.6	98.4
39	62.6	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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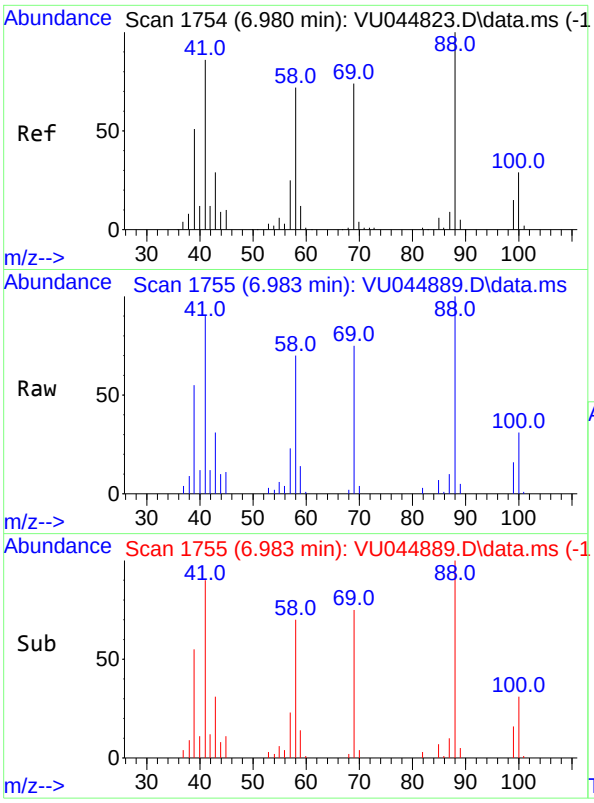
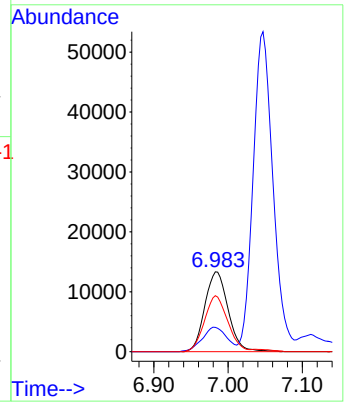
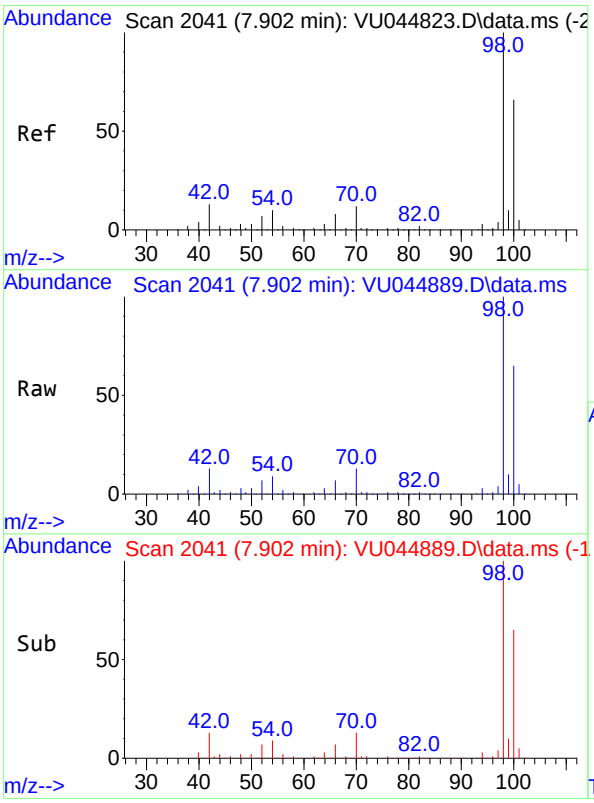


#49
1,4-Dioxane
Concen: 413.844 ug/l
RT: 6.983 min Scan# 1755
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 88 Resp: 29105

Ion	Ratio	Lower	Upper
88	100		
43	32.5	25.8	38.6
58	69.7	61.3	91.9

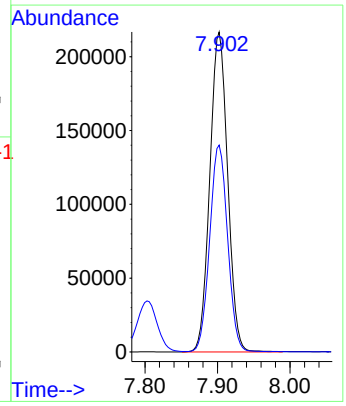




#50
Toluene-d8
Concen: 53.393 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 98 Resp: 370291

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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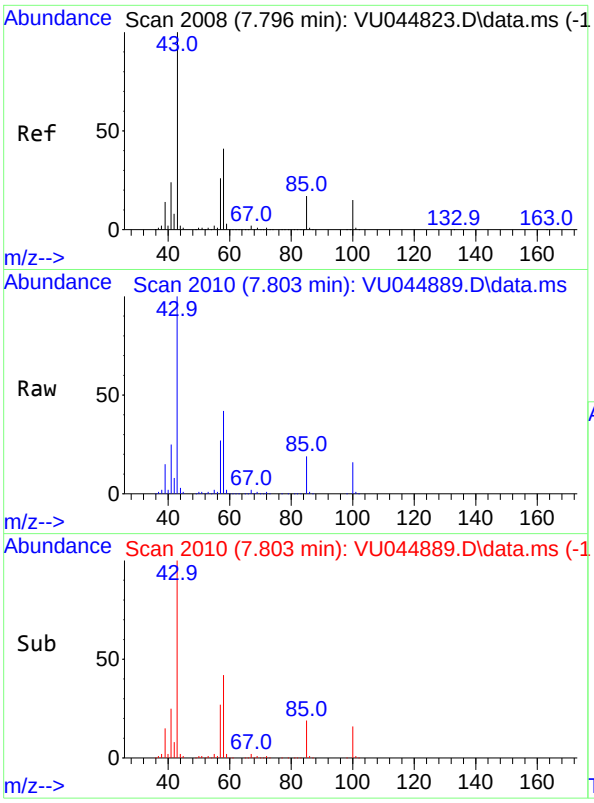
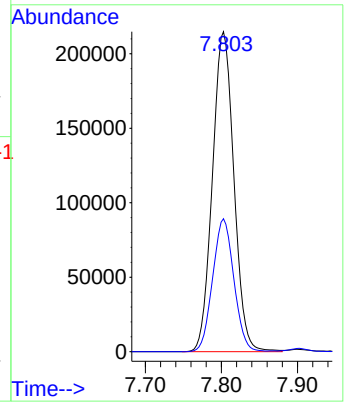
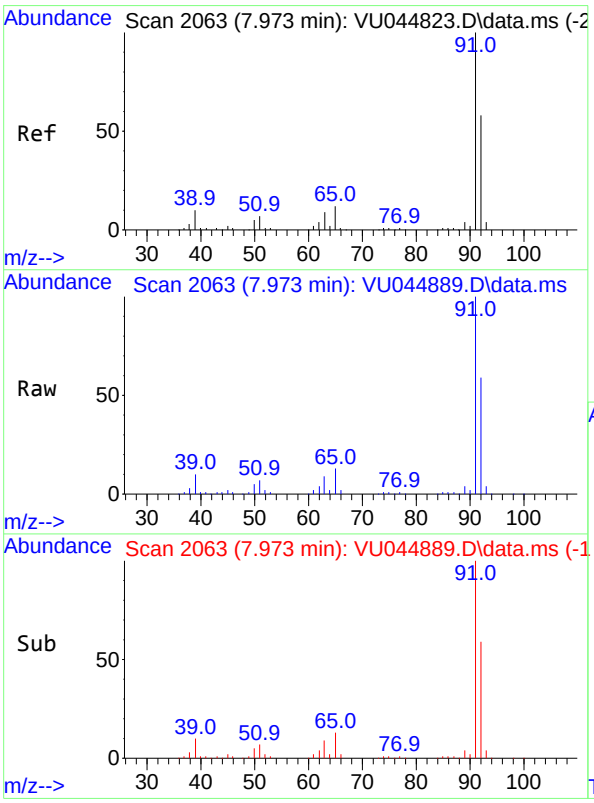


#51
4-Methyl-2-Pentanone
Concen: 101.384 ug/l
RT: 7.803 min Scan# 2010
Delta R.T. 0.006 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 421262

Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.4	48.6

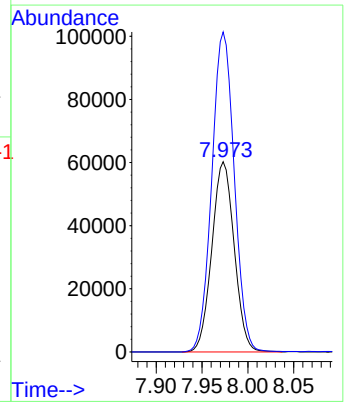




#52
Toluene
Concen: 19.749 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 92 Resp: 102235

Ion	Ratio	Lower	Upper
92	100		
91	169.2	136.9	205.3



Instrument :
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ClientSampleId :
VU0927WBS01

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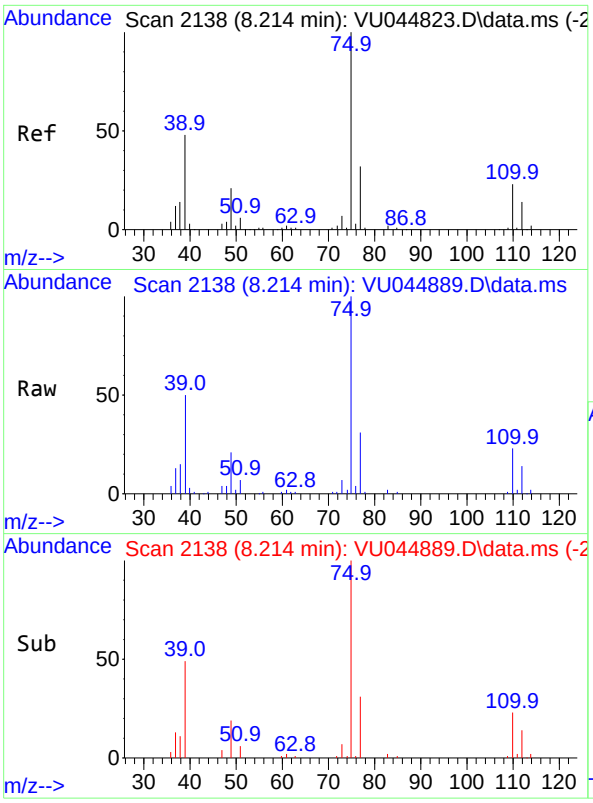
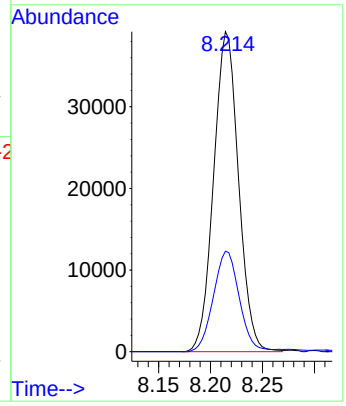
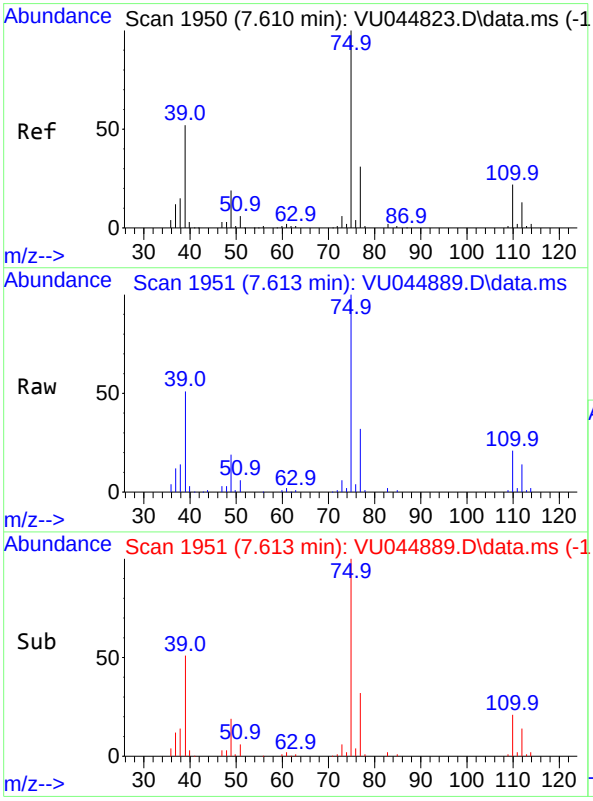


#53
t-1,3-Dichloropropene
Concen: 20.443 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 75 Resp: 65235

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4

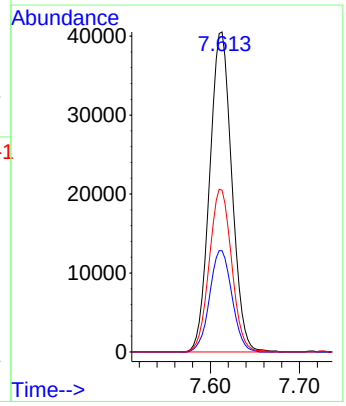




#54
cis-1,3-Dichloropropene
Concen: 20.222 ug/l
RT: 7.613 min Scan# 1951
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 75 Resp: 69884

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.6
39	50.5	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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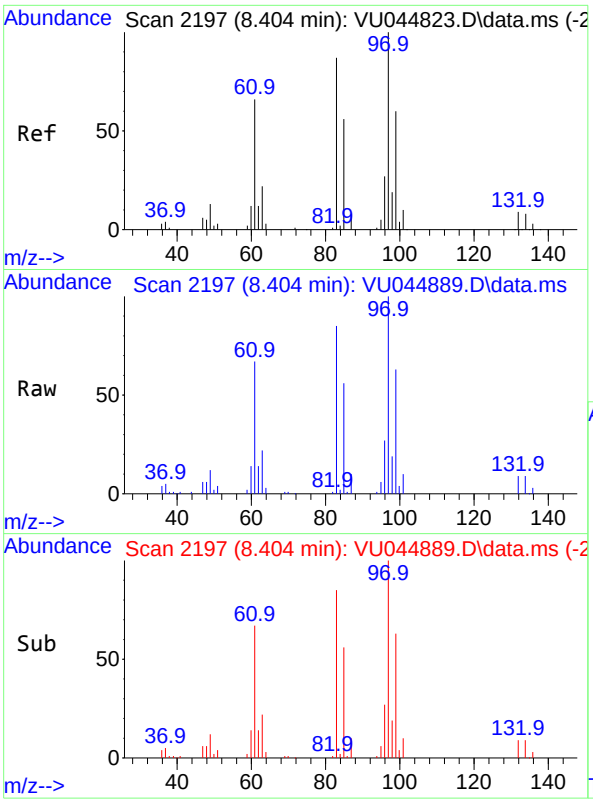
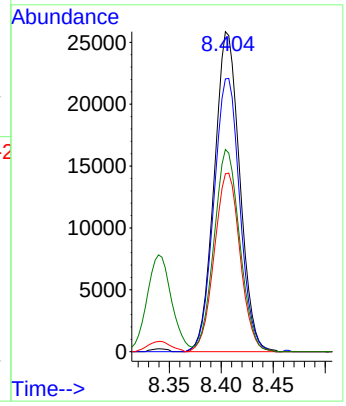
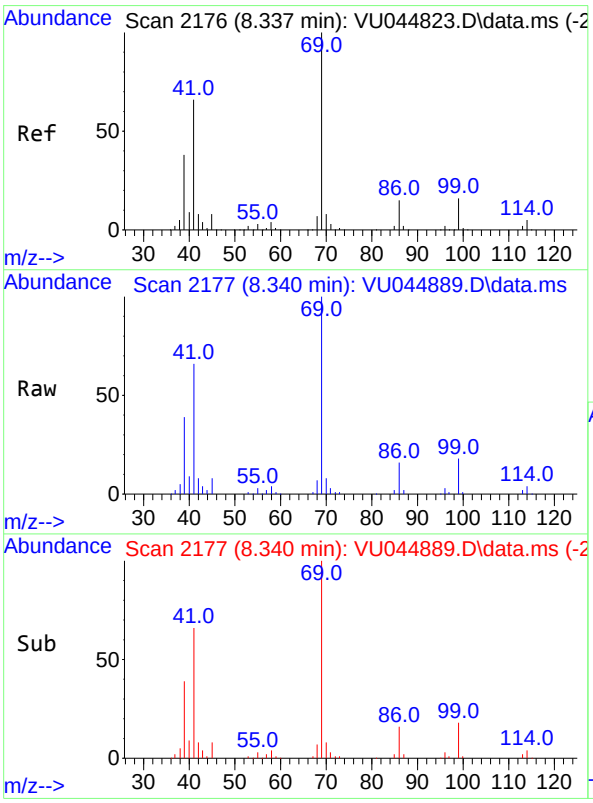


#55
1,1,2-Trichloroethane
Concen: 19.932 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 97 Resp: 44116

Ion	Ratio	Lower	Upper
97	100		
83	85.2	69.7	104.5
85	55.6	44.8	67.2
99	63.2	49.3	73.9

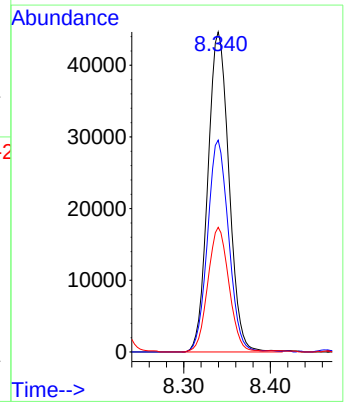




#56
Ethyl methacrylate
Concen: 20.307 ug/l
RT: 8.340 min Scan# 2177
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 69 Resp: 75473

Ion	Ratio	Lower	Upper
69	100		
41	66.2	53.5	80.3
39	39.2	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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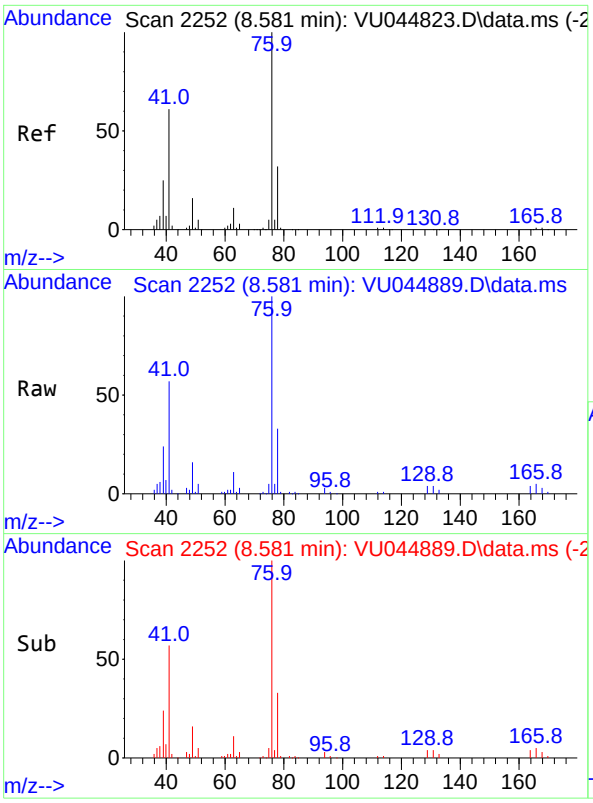
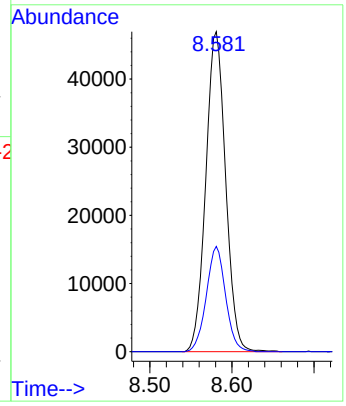
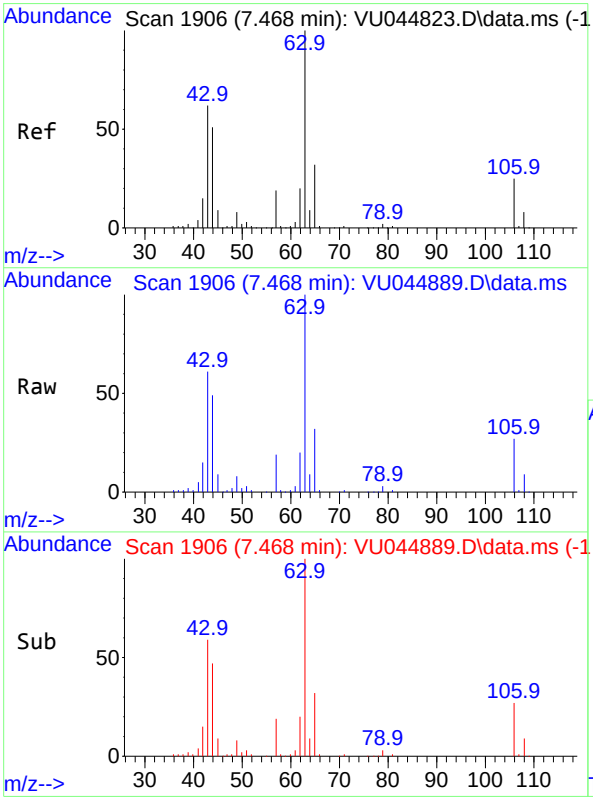


#57
1,3-Dichloropropane
Concen: 20.033 ug/l
RT: 8.581 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 76 Resp: 78953

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.7	38.5

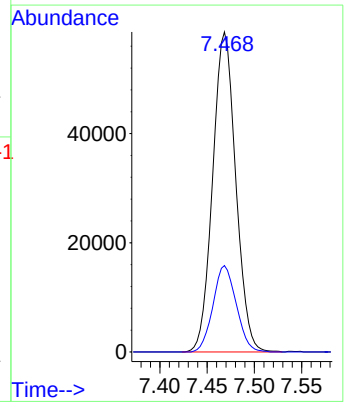




#58
2-Chloroethyl Vinyl ether
Concen: 118.407 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 63 Resp: 99486

Ion	Ratio	Lower	Upper
63	100		
106	27.2	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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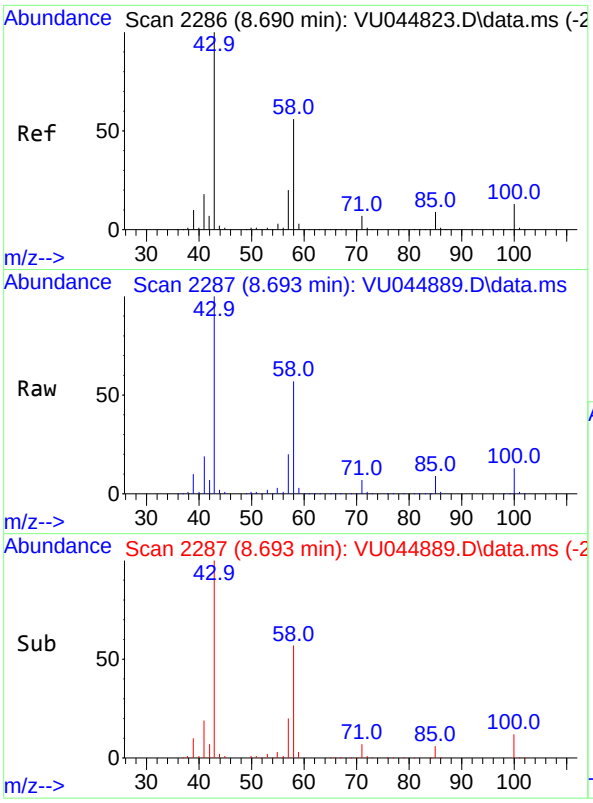
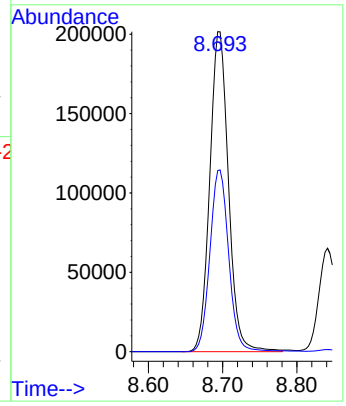
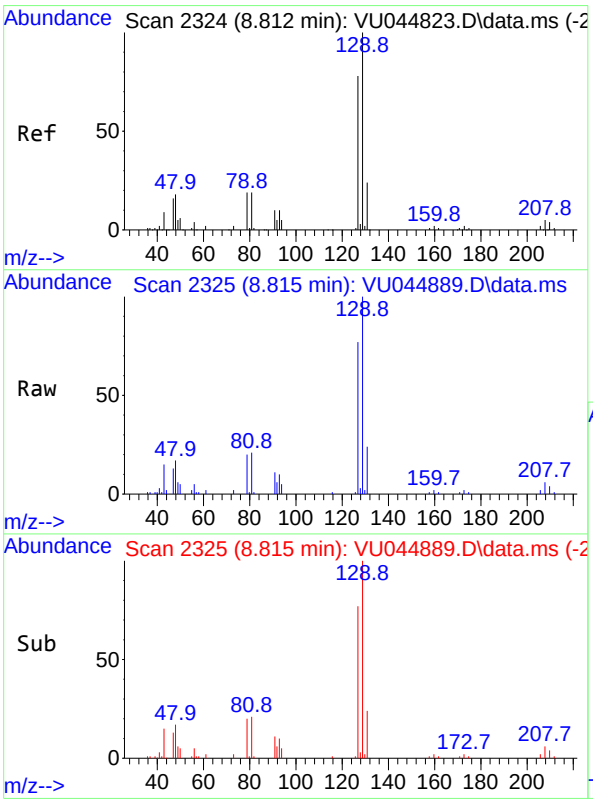


#59
2-Hexanone
Concen: 105.536 ug/l
RT: 8.693 min Scan# 2287
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 351988

Ion	Ratio	Lower	Upper
43	100		
58	57.2	28.0	84.0

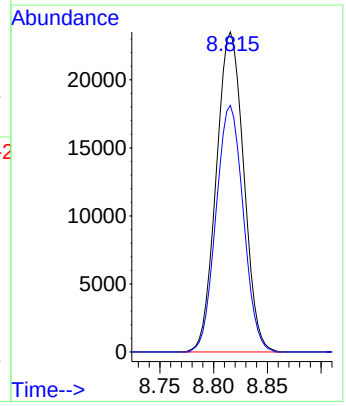




#60
Dibromochloromethane
Concen: 19.696 ug/l
RT: 8.815 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:129 Resp: 41745

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	117.0



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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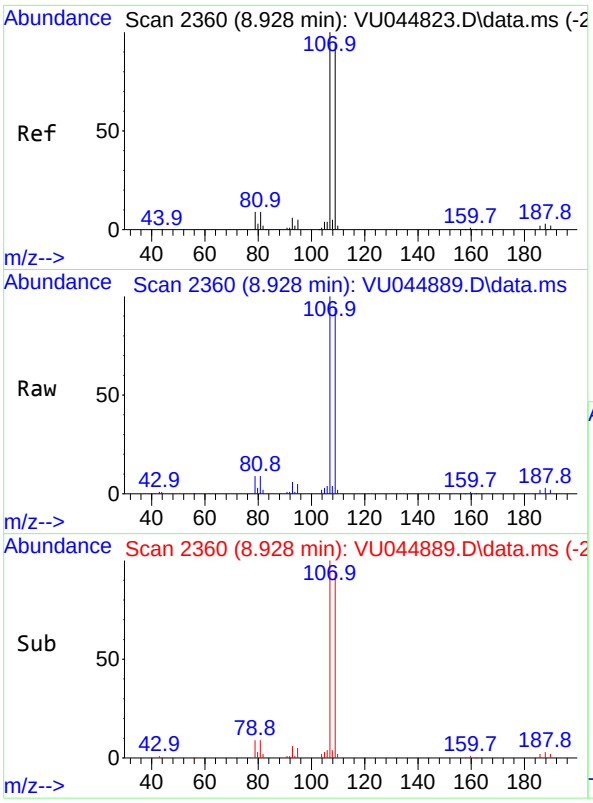
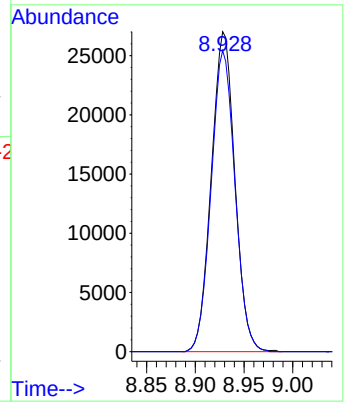
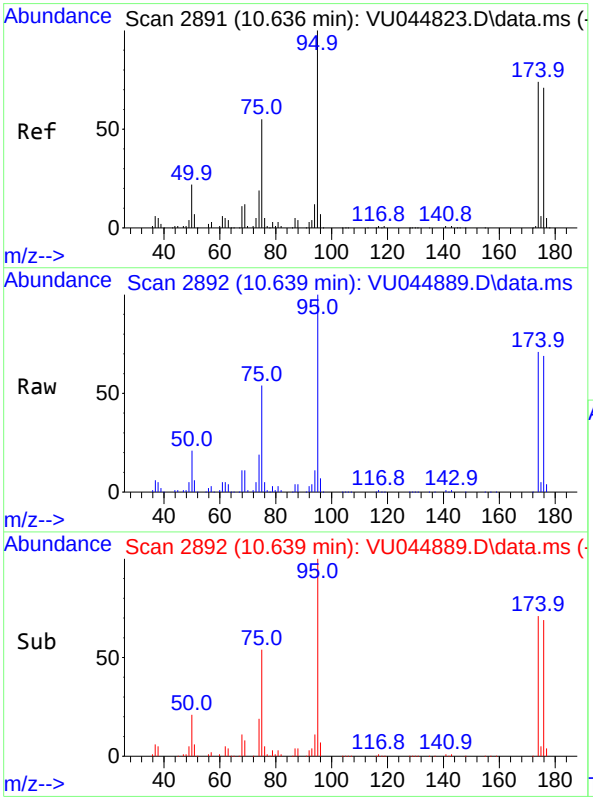


#61
1,2-Dibromoethane
Concen: 19.543 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:107 Resp: 45417

Ion	Ratio	Lower	Upper
107	100		
109	95.2	74.8	112.2

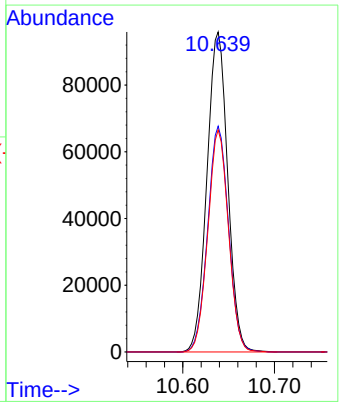




#62
4-Bromofluorobenzene
Concen: 58.625 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 95 Resp: 151012

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	146.6
176	68.7	0.0	141.2



Instrument :
MSVOA_U
ClientSampleId :
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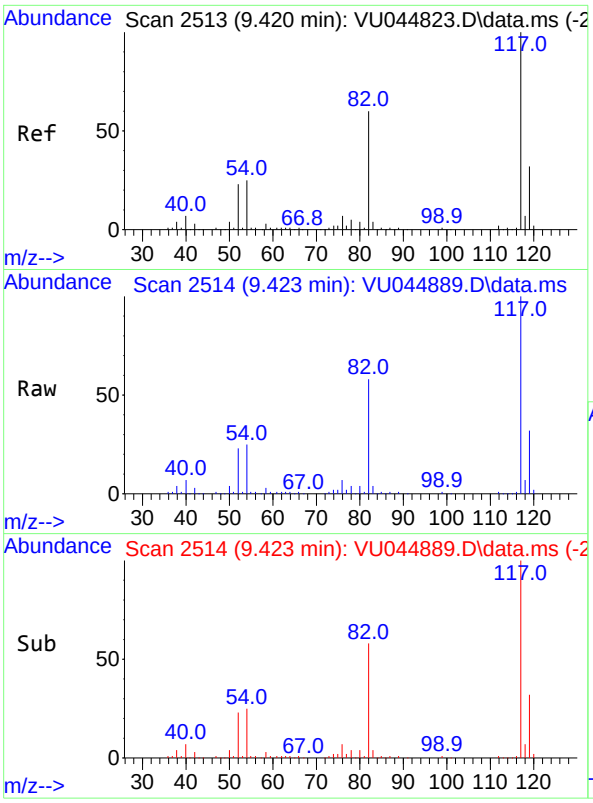
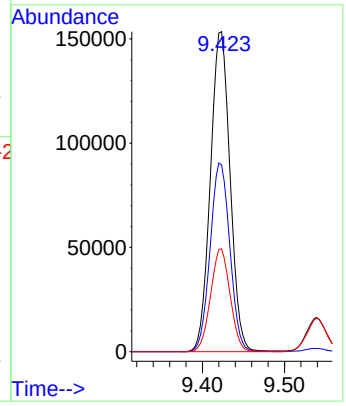
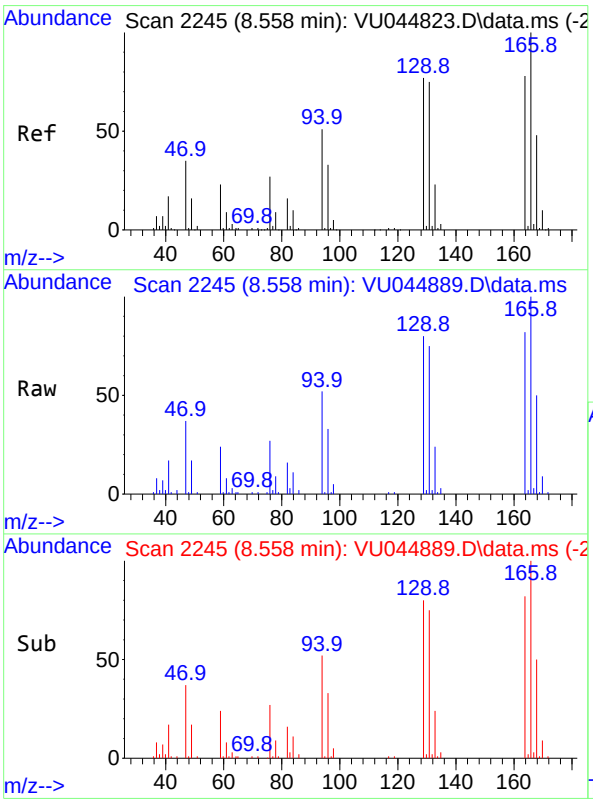


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.423 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:117 Resp: 255569

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.8
119	32.2	25.8	38.6

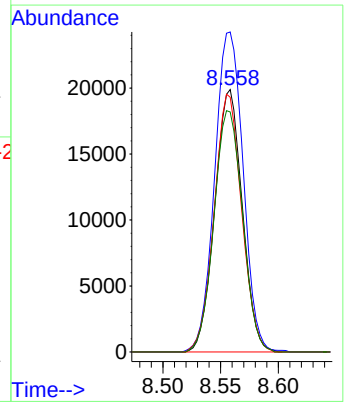




#64
Tetrachloroethene
Concen: 18.993 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:164 Resp: 32902

Ion	Ratio	Lower	Upper
164	100		
166	121.9	102.8	154.2
129	97.1	79.4	119.2
131	91.4	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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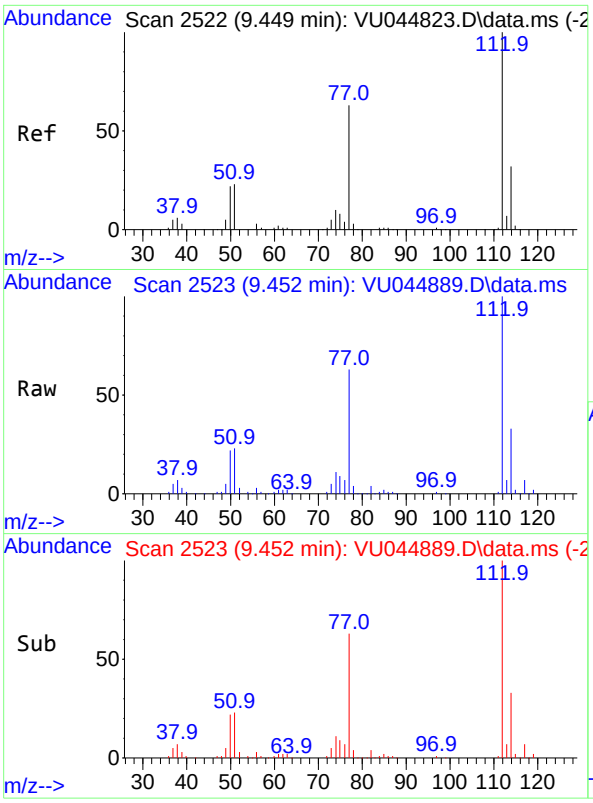
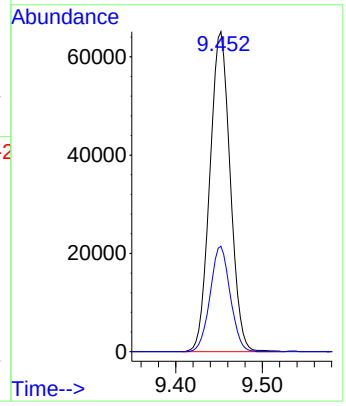
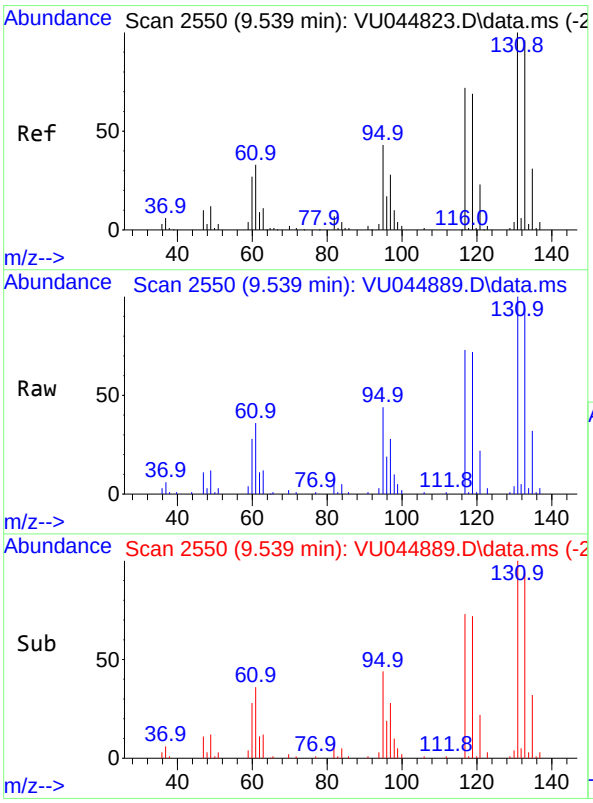


#65
Chlorobenzene
Concen: 20.049 ug/l
RT: 9.452 min Scan# 2523
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:112 Resp: 106372

Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.9	38.9

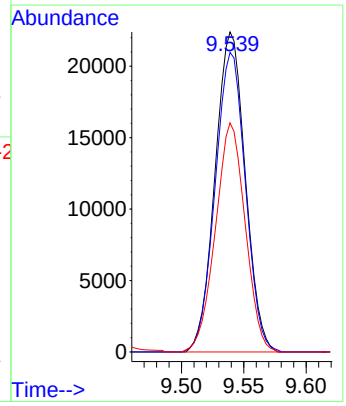




#66
1,1,1,2-Tetrachloroethane
Concen: 19.933 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:131 Resp: 37721

Ion	Ratio	Lower	Upper
131	100		
133	94.0	48.1	144.3
119	70.7	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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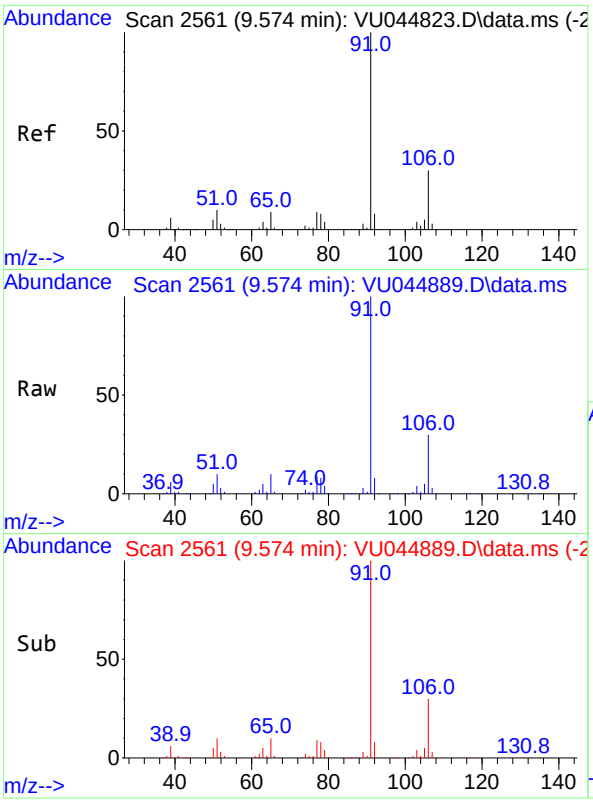
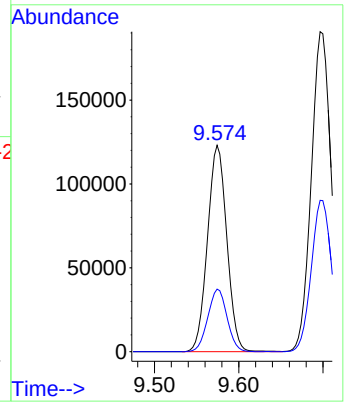
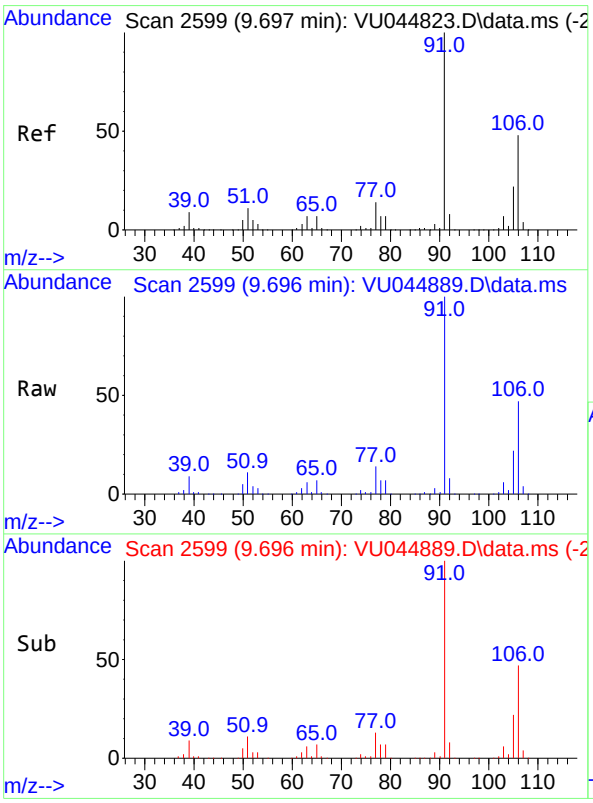


#67
Ethyl Benzene
Concen: 20.742 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 91 Resp: 196423

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

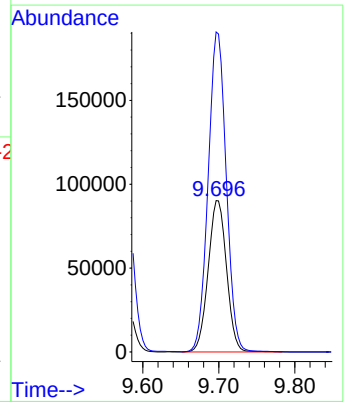




#68
m/p-Xylenes
Concen: 41.743 ug/l
RT: 9.696 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:106 Resp: 151188

Ion	Ratio	Lower	Upper
106	100		
91	208.3	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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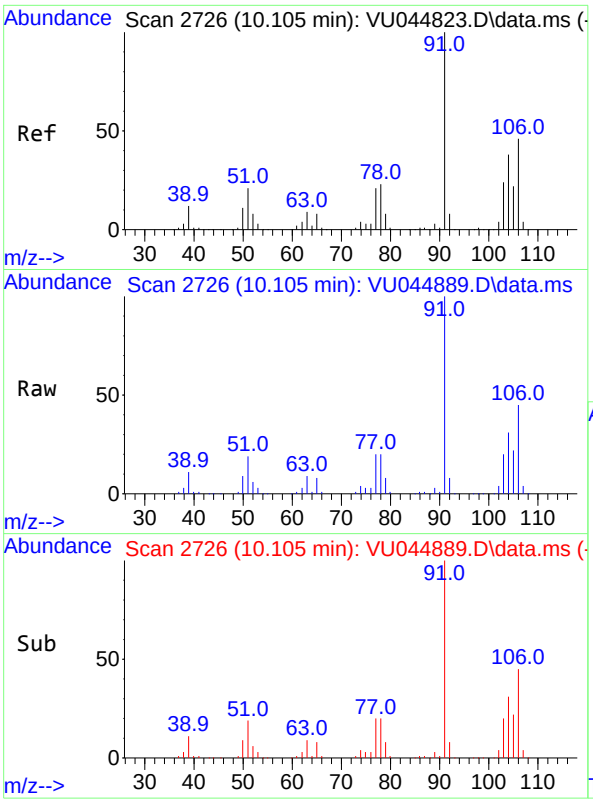
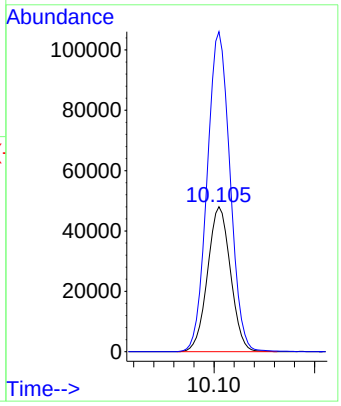
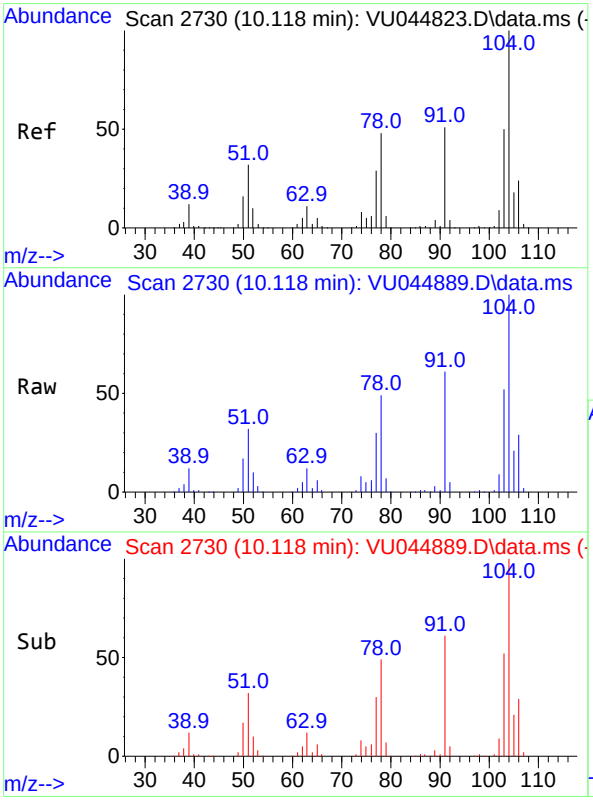


#69
o-Xylene
Concen: 21.740 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:106 Resp: 76137

Ion	Ratio	Lower	Upper
106	100		
91	220.3	108.9	326.7

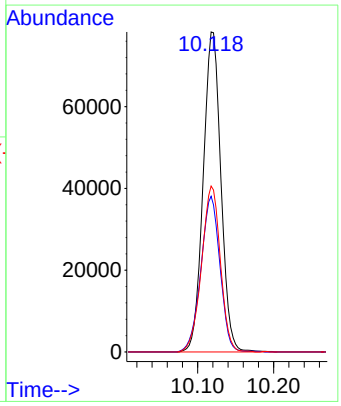




#70
Styrene
Concen: 19.990 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:104 Resp: 126797

Ion	Ratio	Lower	Upper
104	100		
78	52.3	41.4	62.0
103	54.9	43.5	65.3



Instrument :
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ClientSampleId :
VU0927WBS01

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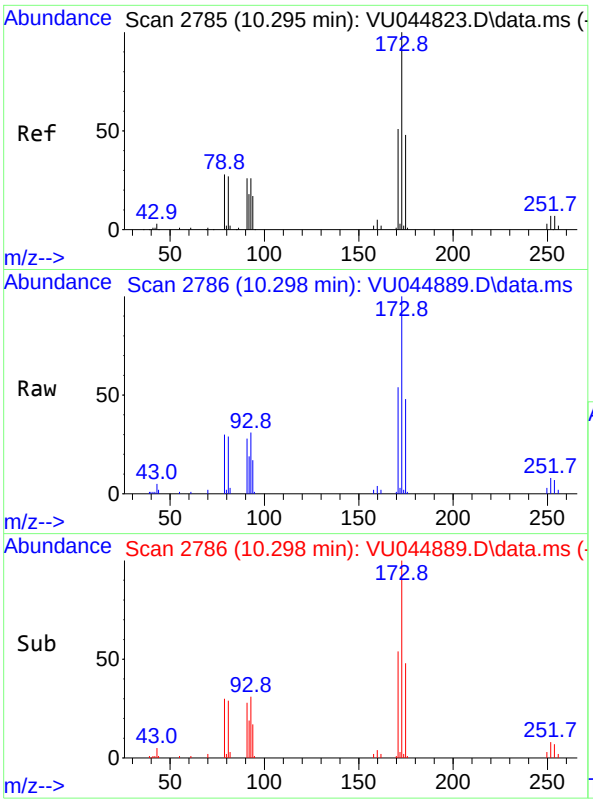
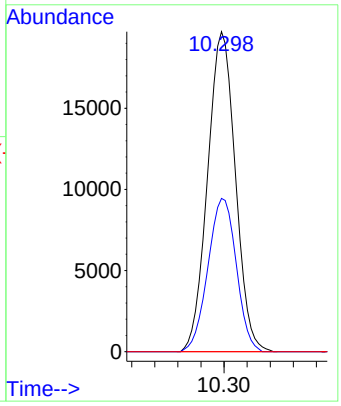
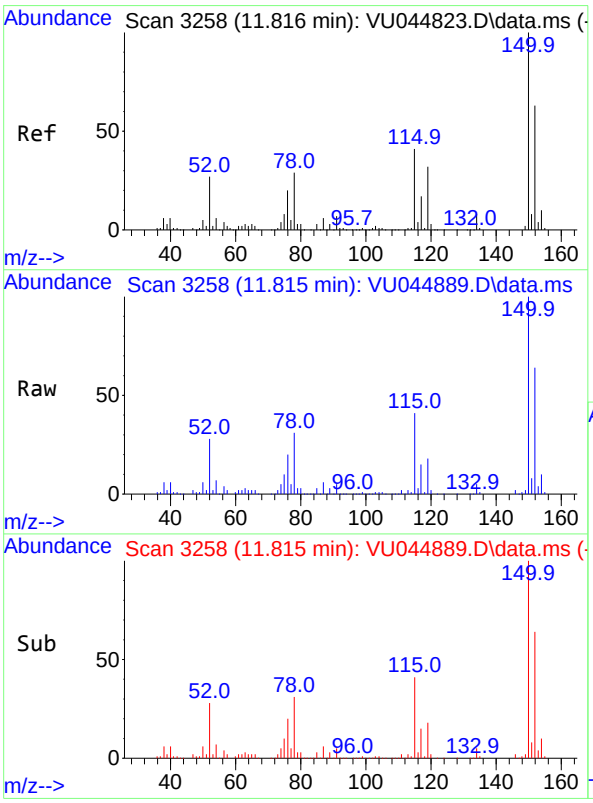


#71
Bromoform
Concen: 21.060 ug/l
RT: 10.298 min Scan# 2786
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:173 Resp: 32975

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	73.0
254	0.0	0.0	0.0

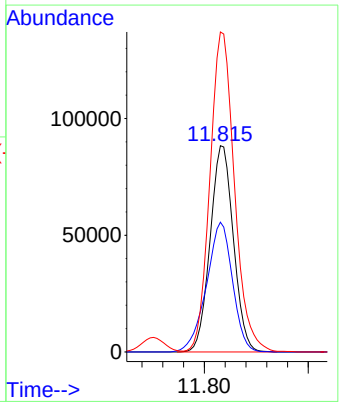




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:152 Resp: 137448

Ion	Ratio	Lower	Upper
152	100		
115	70.4	43.5	130.7
150	163.7	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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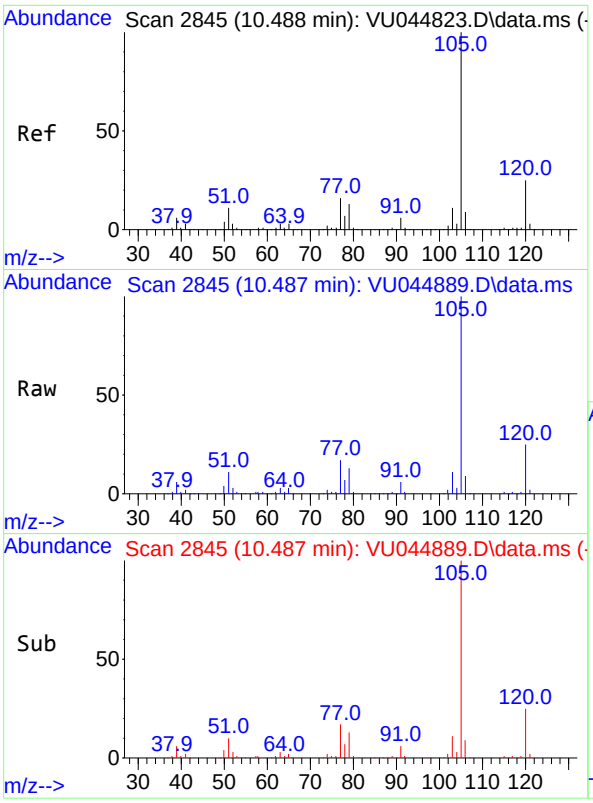
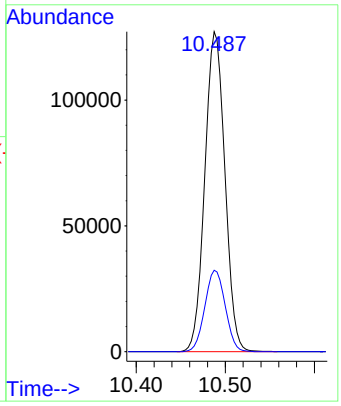
9/28/2021 7:04:49 PM

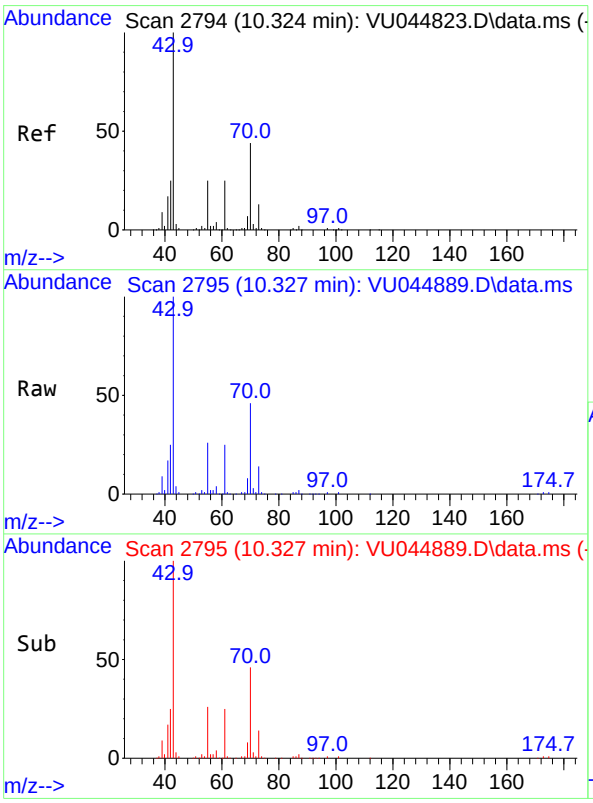


#73
Isopropylbenzene
Concen: 20.381 ug/l
RT: 10.487 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:105 Resp: 198826

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.3

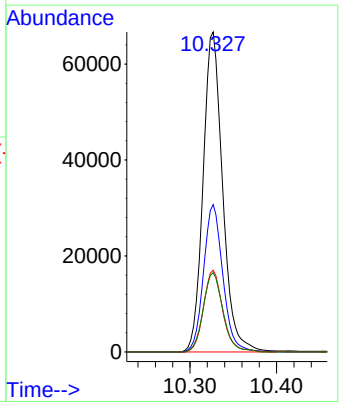




#74
N-amyl acetate
Concen: 21.061 ug/l
RT: 10.327 min Scan# 2795
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 43 Resp: 104722

Ion	Ratio	Lower	Upper
43	100		
70	45.4	35.1	52.7
55	25.1	20.5	30.7
61	25.1	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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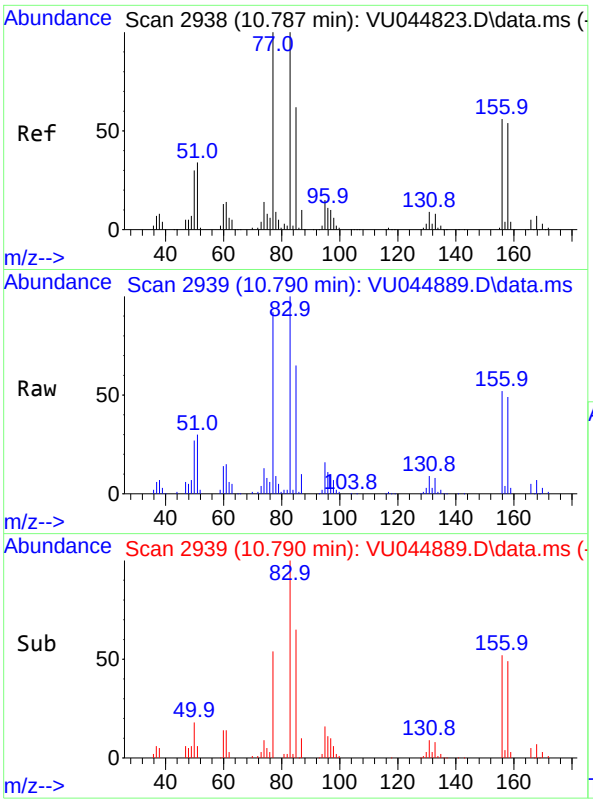
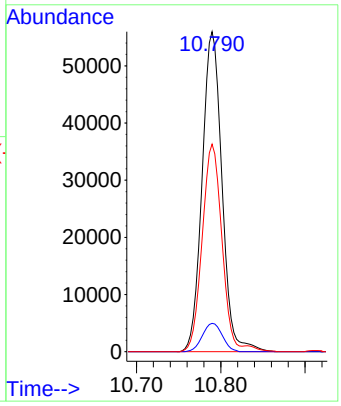
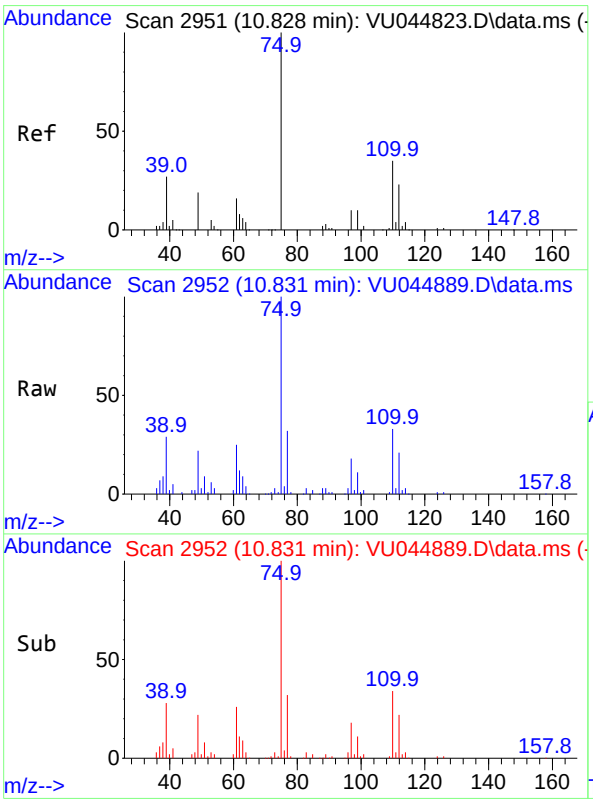


#75
1,1,2,2-Tetrachloroethane
Concen: 20.651 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 83 Resp: 91779

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.3	13.1
85	63.8	31.9	95.5

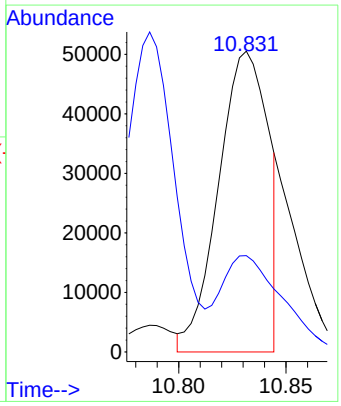




#76
1,2,3-Trichloropropane
Concen: 19.622 ug/l m
RT: 10.831 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 75 Resp: 81668

Ion	Ratio	Lower	Upper
75	100		
77	40.1	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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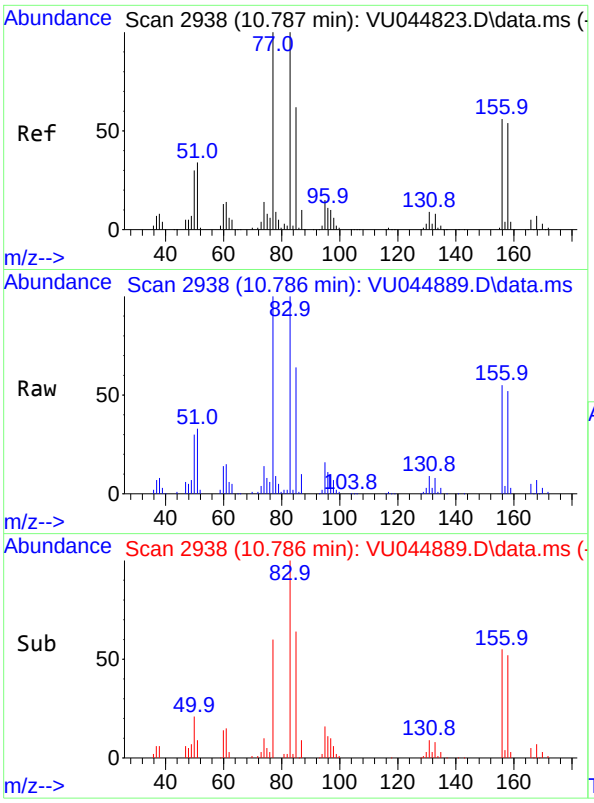
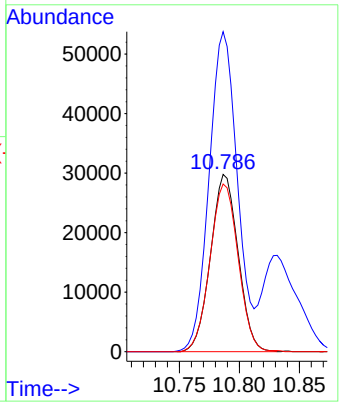
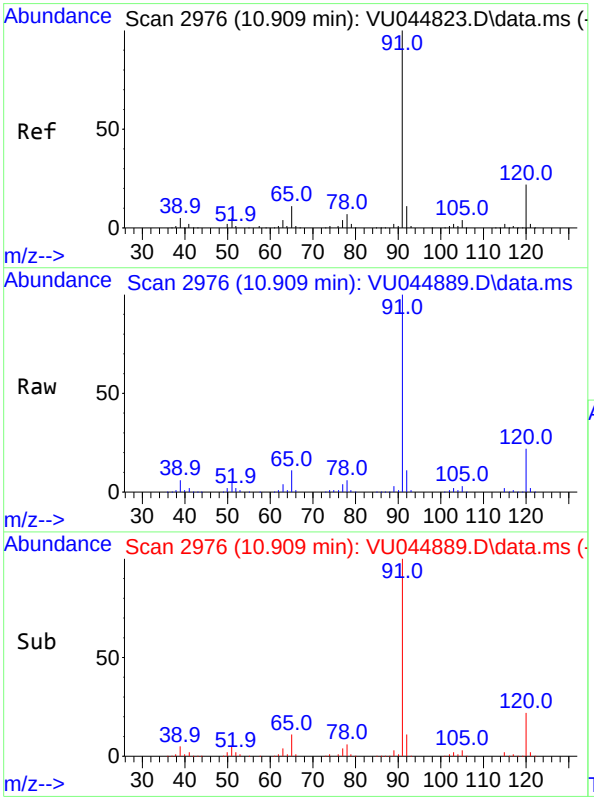


#77
Bromobenzene
Concen: 20.426 ug/l
RT: 10.786 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:156 Resp: 47606

Ion	Ratio	Lower	Upper
156	100		
77	184.1	91.1	273.4
158	96.8	48.2	144.6

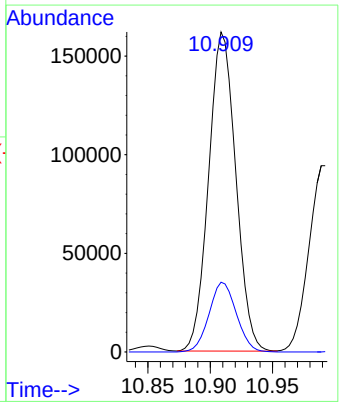




#78
n-propylbenzene
Concen: 20.763 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 91 Resp: 245433

Ion	Ratio	Lower	Upper
91	100		
120	22.0	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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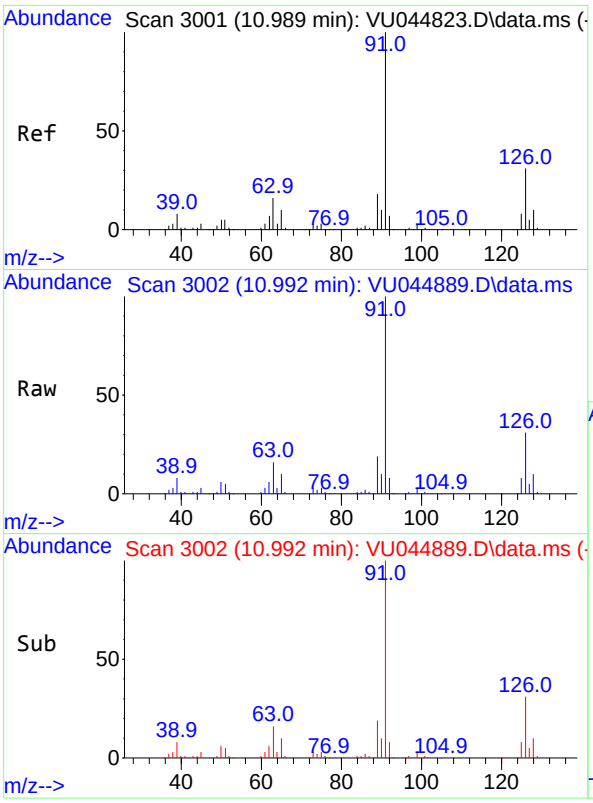
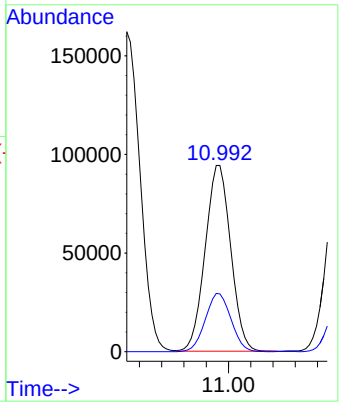
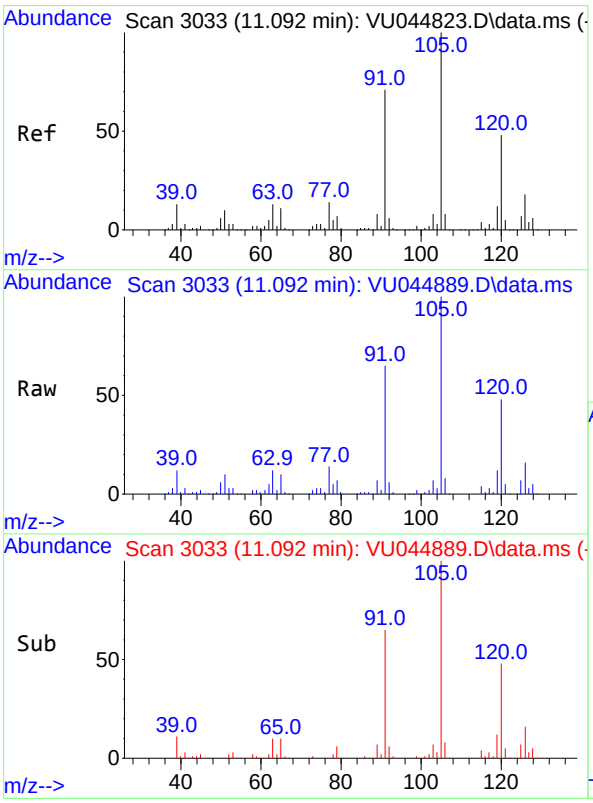


#79
2-Chlorotoluene
Concen: 20.814 ug/l
RT: 10.992 min Scan# 3002
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 91 Resp: 149953

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.7	47.0

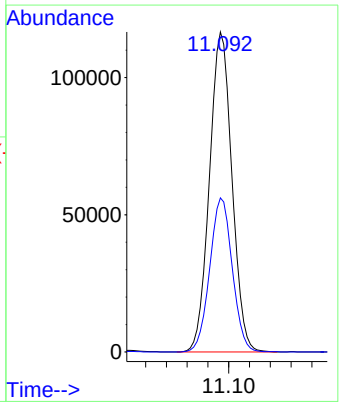




#80
1,3,5-Trimethylbenzene
Concen: 21.196 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:105 Resp: 175150

Ion	Ratio	Lower	Upper
105	100		
120	48.3	24.1	72.2



Instrument :
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ClientSampleId :
VU0927WBS01

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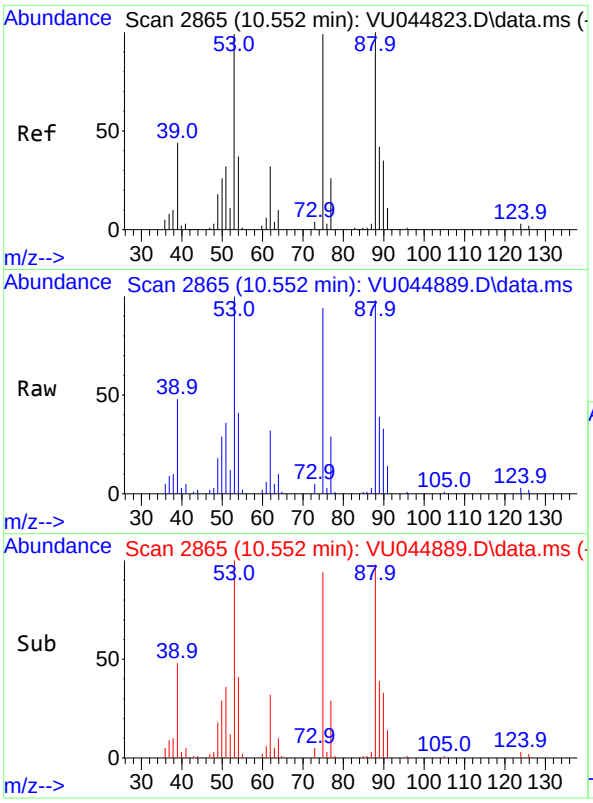
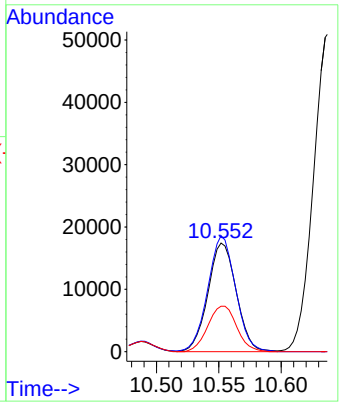
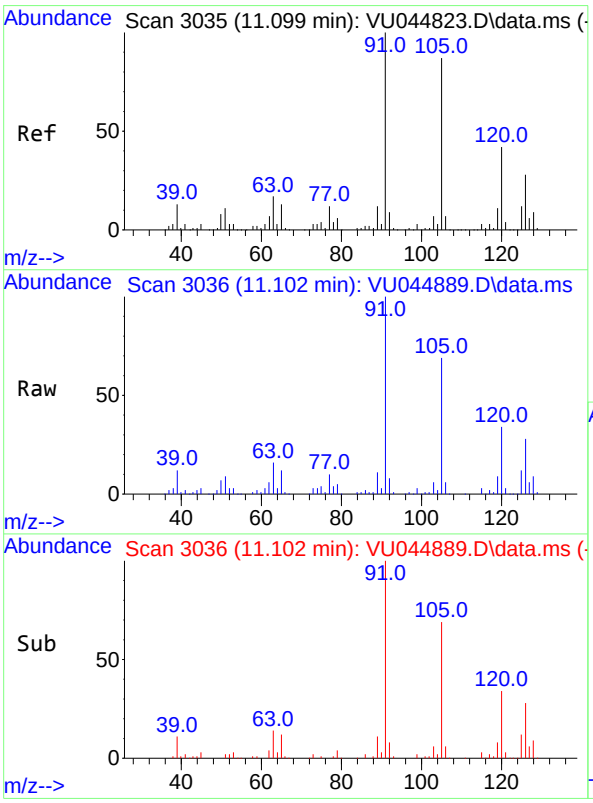


#81
trans-1,4-Dichloro-2-butene
Concen: 21.493 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 75 Resp: 27615

Ion	Ratio	Lower	Upper
75	100		
53	104.2	82.0	123.0
89	42.7	34.2	51.4

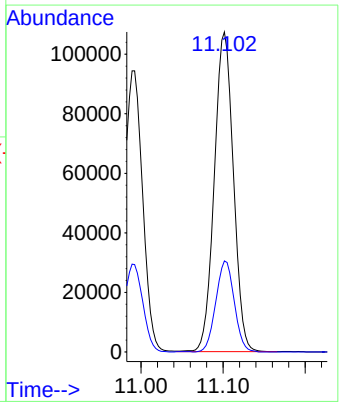




#82
4-Chlorotoluene
Concen: 21.183 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 91 Resp: 173738

Ion	Ratio	Lower	Upper
91	100		
126	27.5	13.8	41.4



Instrument :
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ClientSampleId :
VU0927WBS01

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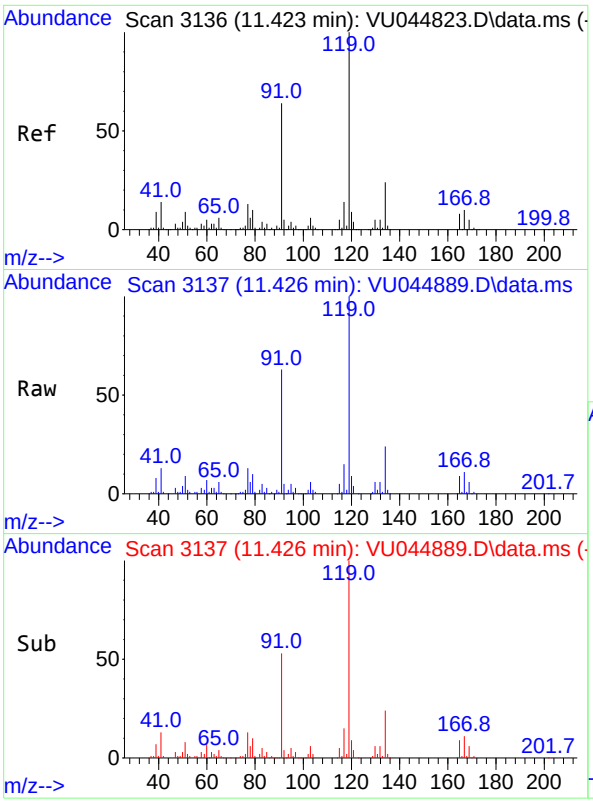
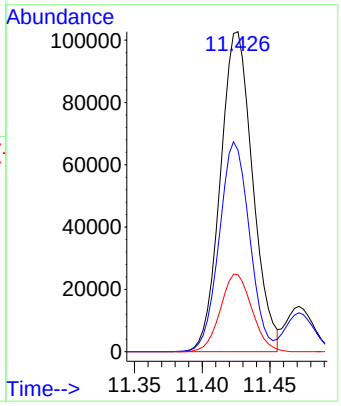
9/28/2021 7:04:49 PM

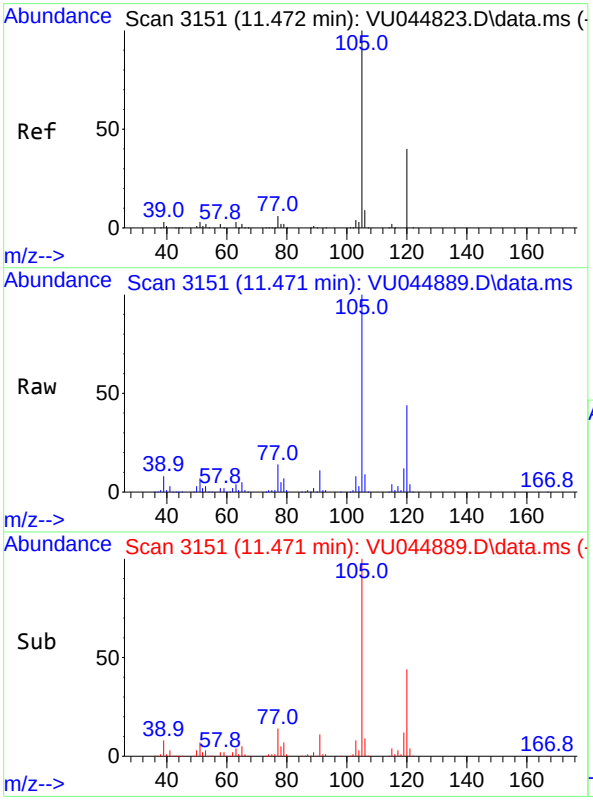


#83
tert-Butylbenzene
Concen: 21.357 ug/l
RT: 11.426 min Scan# 3137
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:119 Resp: 170245

Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.4	91.2
134	23.6	11.5	34.5

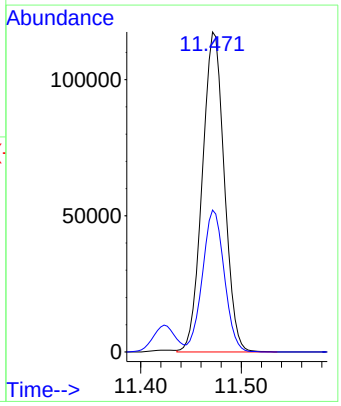




#84
1,2,4-Trimethylbenzene
Concen: 21.931 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:105 Resp: 178665

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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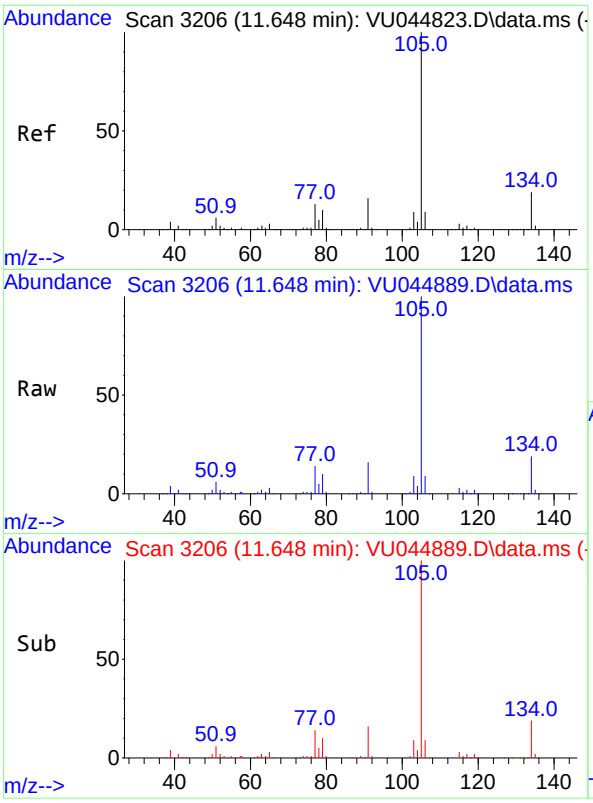
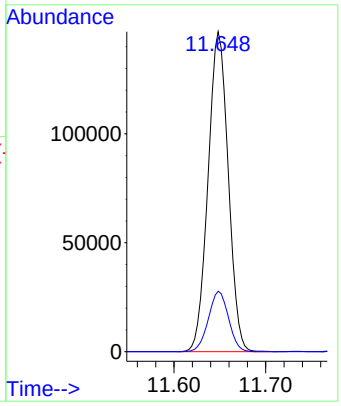
9/28/2021 7:04:49 PM

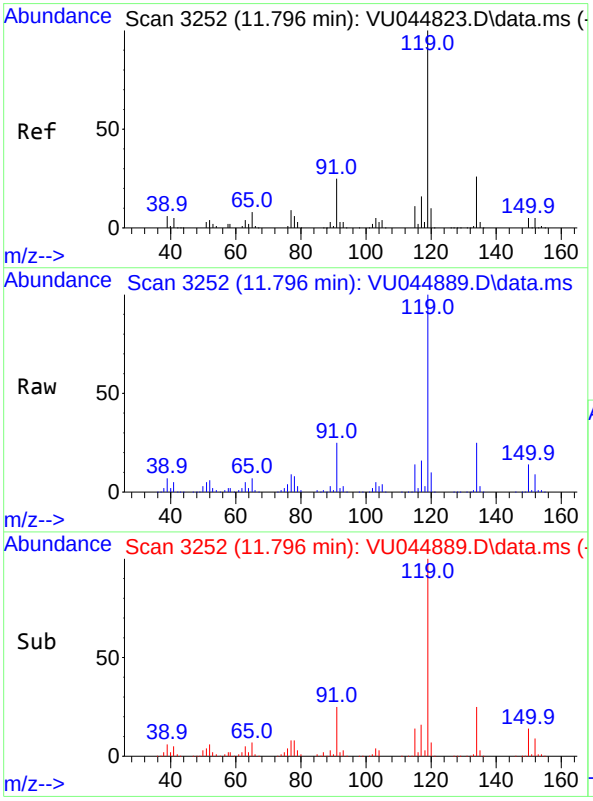


#85
sec-Butylbenzene
Concen: 21.775 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:105 Resp: 224462

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.3	28.0

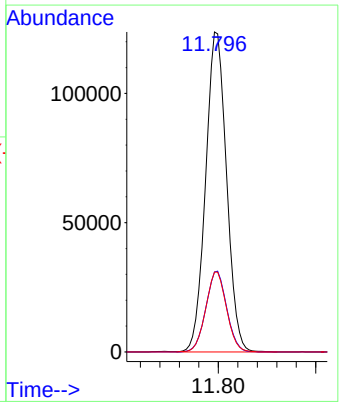




#86
p-Isopropyltoluene
Concen: 21.980 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:119 Resp: 184319

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.3
91	24.8	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

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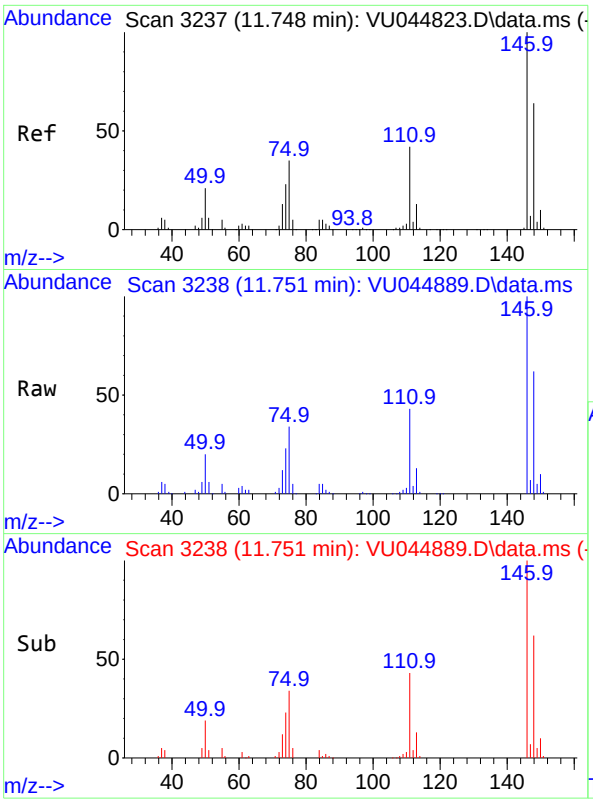
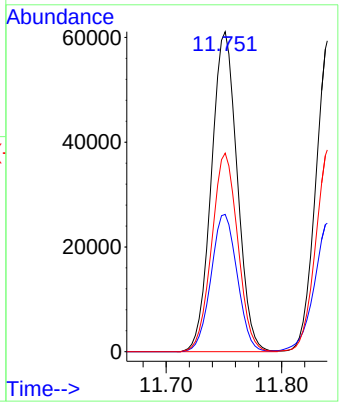
9/28/2021 7:04:49 PM

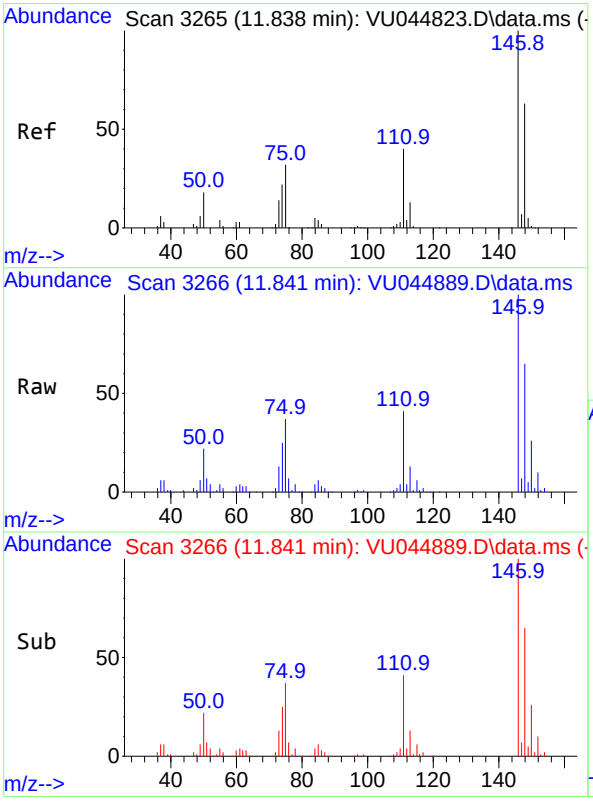


#87
1,3-Dichlorobenzene
Concen: 20.996 ug/l
RT: 11.751 min Scan# 3238
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:146 Resp: 94963

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.2	63.6
148	62.6	32.1	96.3

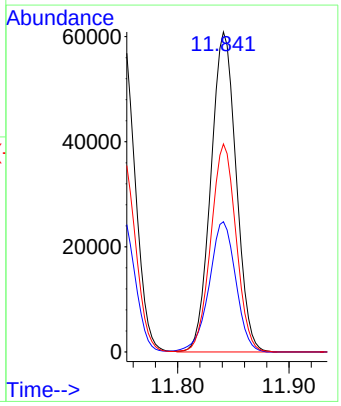




#88
1,4-Dichlorobenzene
Concen: 20.530 ug/l
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:146 Resp: 96027

Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.3	61.0
148	65.0	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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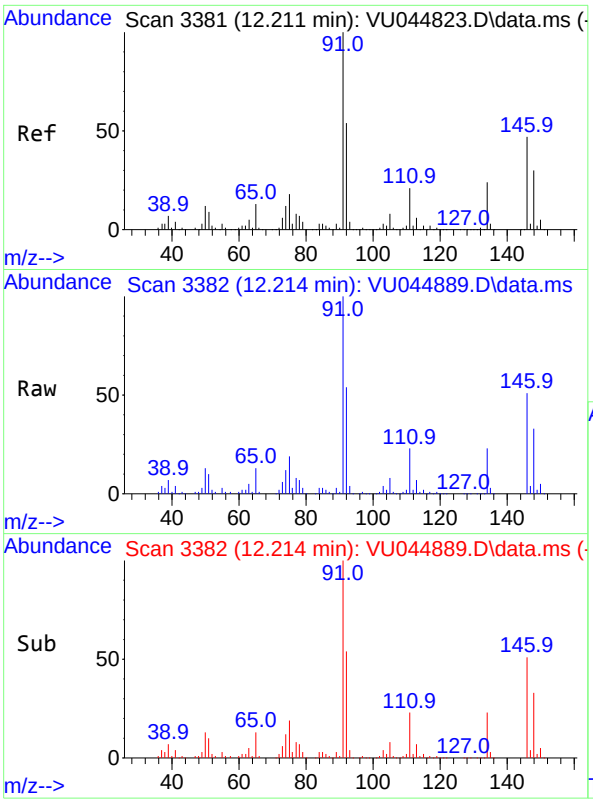
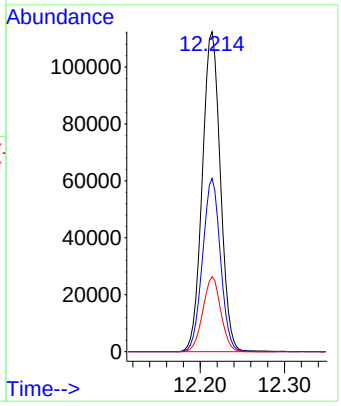
9/28/2021 7:04:49 PM

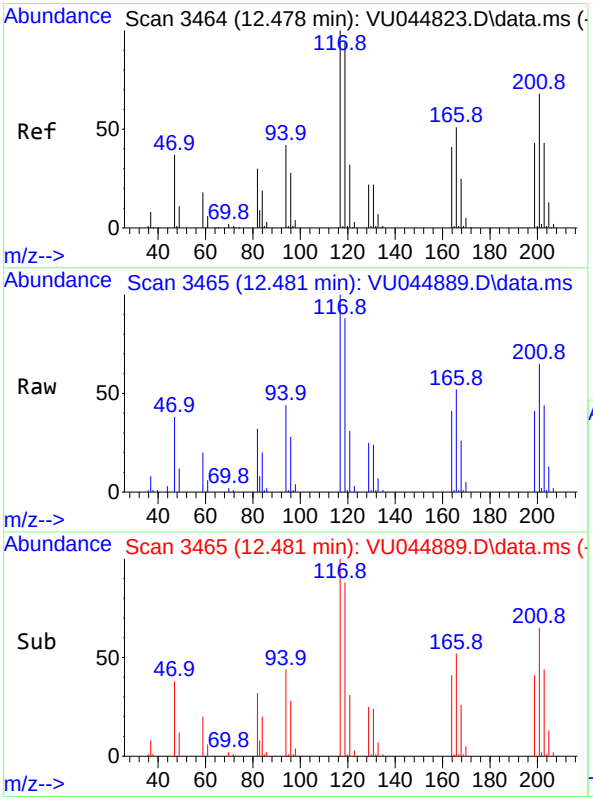


#89
n-Butylbenzene
Concen: 20.234 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 91 Resp: 168046

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.8	80.4
134	23.2	11.8	35.4

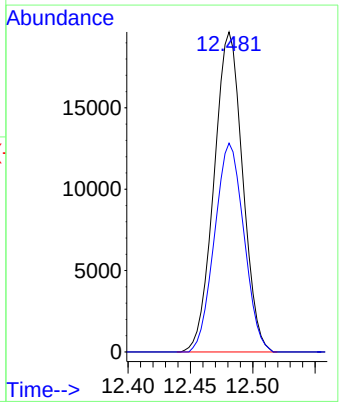




#90
Hexachloroethane
Concen: 20.827 ug/l
RT: 12.481 min Scan# 3465
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:117 Resp: 31471

Ion	Ratio	Lower	Upper
117	100		
201	66.9	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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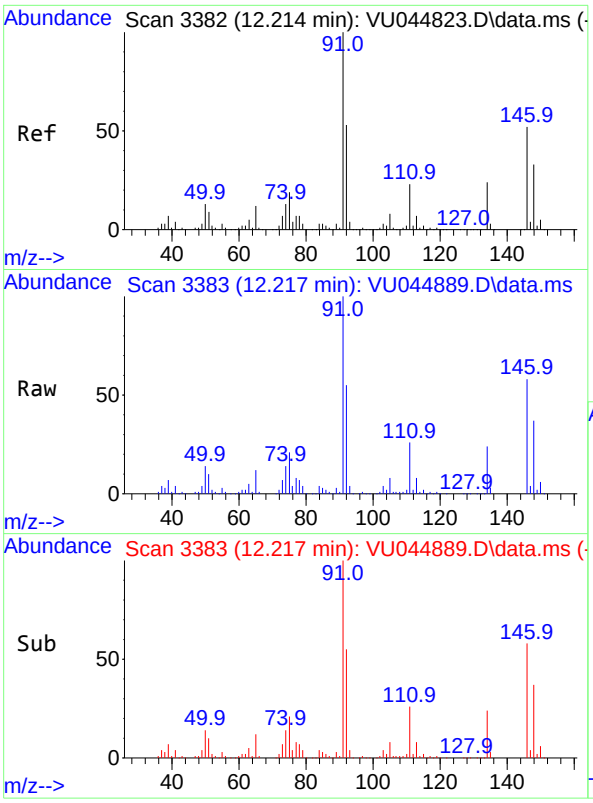
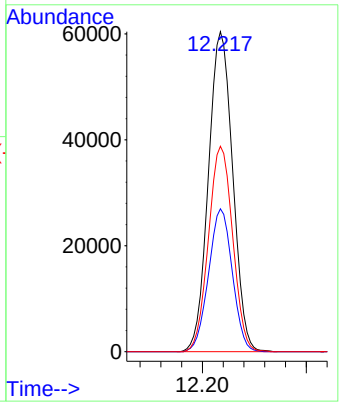
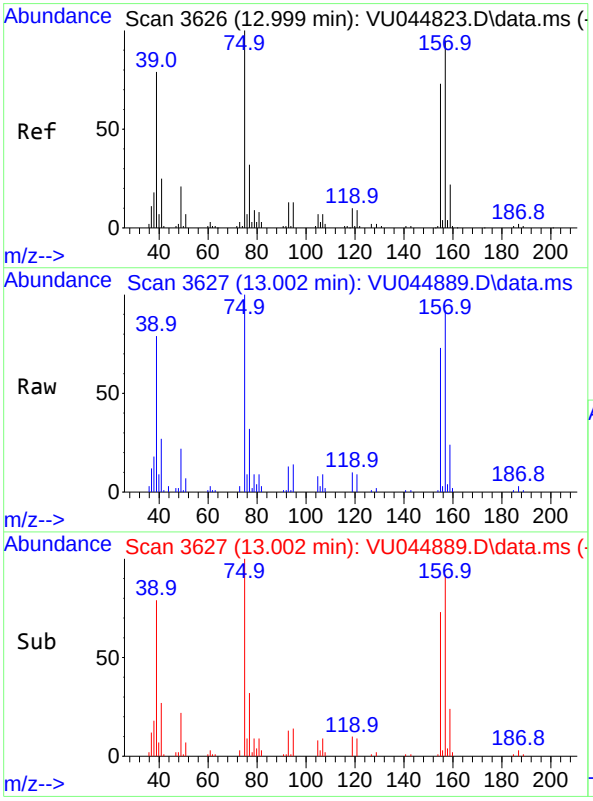


#91
1,2-Dichlorobenzene
Concen: 20.436 ug/l
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:146 Resp: 97950

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.4	64.3
148	64.2	31.8	95.3

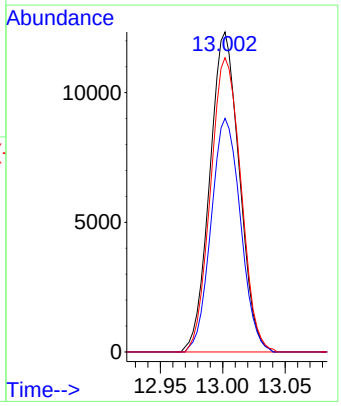




#92
1,2-Dibromo-3-Chloropropane
Concen: 18.905 ug/l
RT: 13.002 min Scan# 3627
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion: 75 Resp: 20374

Ion	Ratio	Lower	Upper
75	100		
155	72.8	36.9	110.6
157	94.4	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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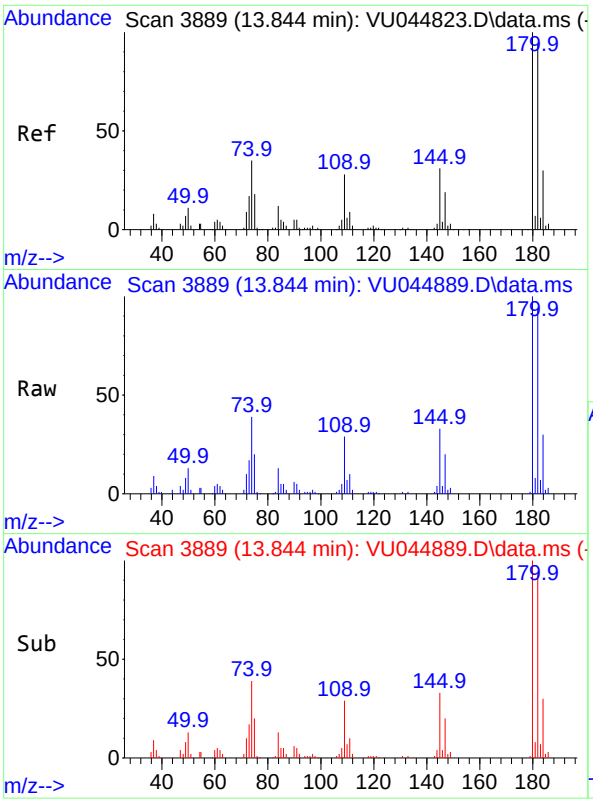
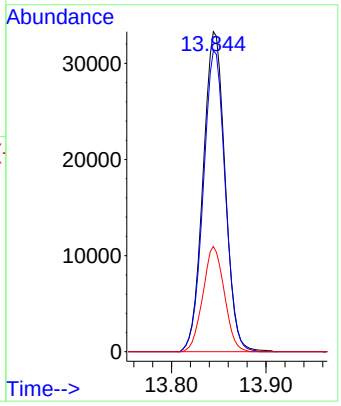
9/28/2021 7:04:49 PM

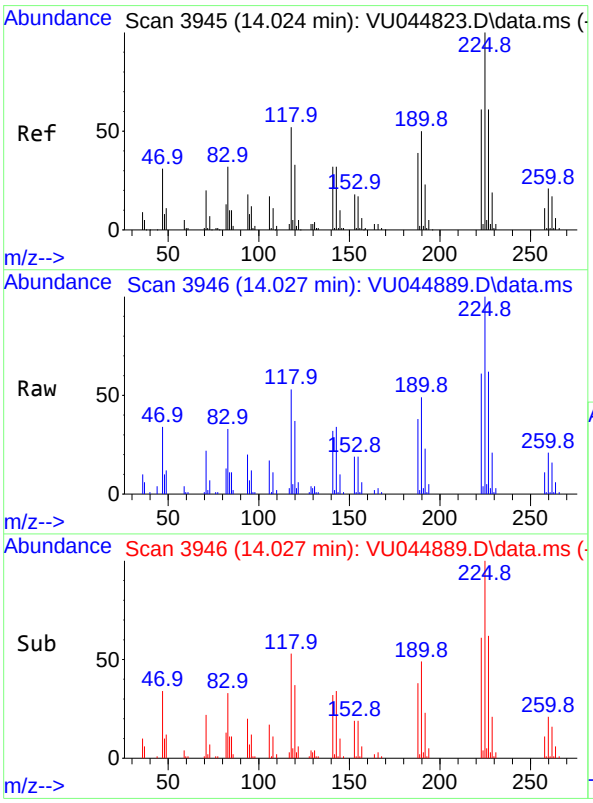


#93
1,2,4-Trichlorobenzene
Concen: 20.276 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:180 Resp: 53701

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.4	142.3
145	32.1	15.4	46.2

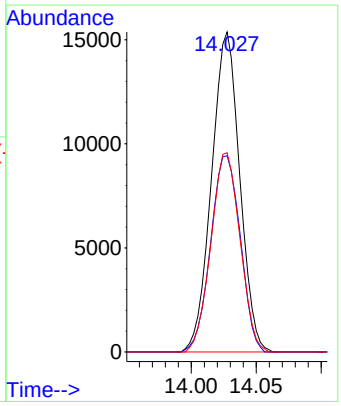




#94
Hexachlorobutadiene
Concen: 19.661 ug/l
RT: 14.027 min Scan# 3946
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:225 Resp: 23165

Ion	Ratio	Lower	Upper
225	100		
223	64.5	31.1	93.3
227	64.2	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS01

Manual Integrations APPROVED
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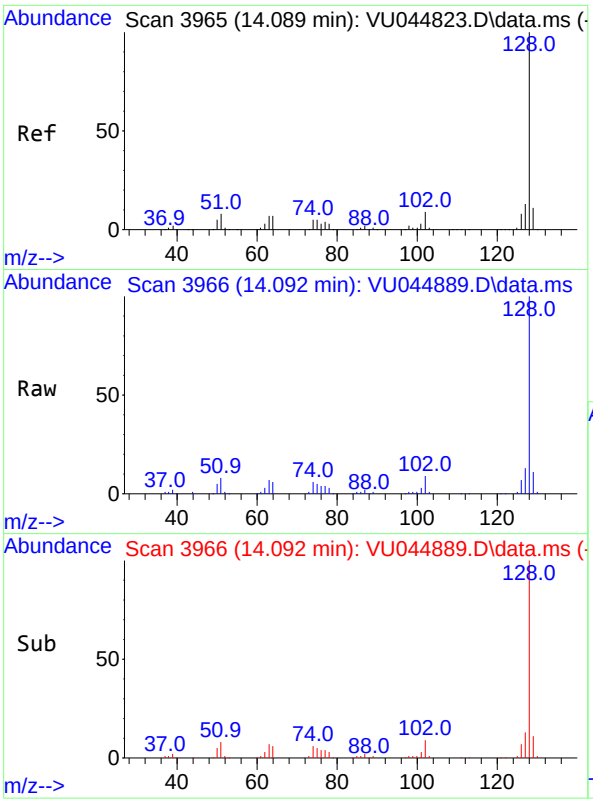
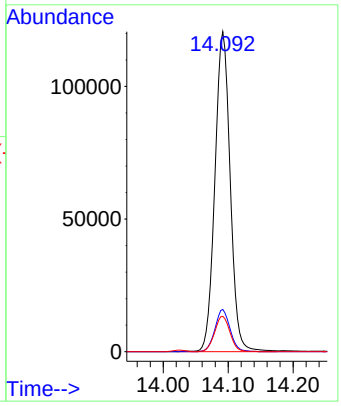
9/28/2021 7:04:49 PM

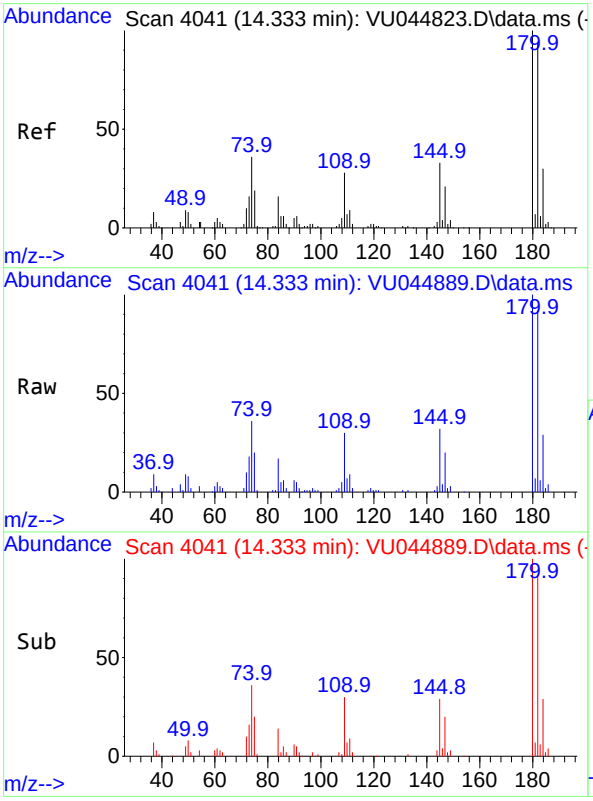


#95
Naphthalene
Concen: 19.245 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:128 Resp: 196651

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.1	8.6	13.0

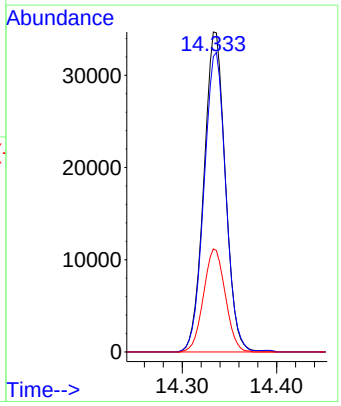




#96
1,2,3-Trichlorobenzene
Concen: 20.321 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044889.D
Acq: 27 Sep 2021 15:21

Tgt Ion:180 Resp: 54729

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.1	141.4
145	32.6	16.4	49.2



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBS02	SDG No.:	M3859
Lab Sample ID:	VU0927WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044907.D	1		09/27/21 23:33	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.7		0.23	1.00	ug/L
74-87-3	Chloromethane	13.4		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	14.8		0.19	1.00	ug/L
74-83-9	Bromomethane	12.6		0.87	5.00	ug/L
75-00-3	Chloroethane	15.9		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.9		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.6		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.4		0.26	1.00	ug/L
67-64-1	Acetone	80.8		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	13.0		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.5		0.22	1.00	ug/L
79-20-9	Methyl Acetate	16.7		0.47	1.00	ug/L
75-09-2	Methylene Chloride	16.7		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.7		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.6		0.21	1.00	ug/L
110-82-7	Cyclohexane	15.8		1.30	5.00	ug/L
78-93-3	2-Butanone	84.3		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	16.8		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7		0.22	1.00	ug/L
74-97-5	Bromochloromethane	16.4		0.26	1.00	ug/L
67-66-3	Chloroform	17.8		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.9		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	16.7		0.14	1.00	ug/L
71-43-2	Benzene	16.9		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.4		0.25	1.00	ug/L
79-01-6	Trichloroethene	16.2		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.1		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	17.5		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	88.9		0.87	5.00	ug/L
108-88-3	Toluene	17.8		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.1		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.4		0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBS02	SDG No.:	M3859
Lab Sample ID:	VU0927WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044907.D	1		09/27/21 23:33	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	17.5		0.24	1.00	ug/L
591-78-6	2-Hexanone	89.8		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	17.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	17.6		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	18.9		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	37.2		0.32	2.00	ug/L
95-47-6	o-Xylene	19.7		0.19	1.00	ug/L
100-42-5	Styrene	18.0		0.16	1.00	ug/L
75-25-2	Bromoform	18.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.8		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.0		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.4		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.8		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.4		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.2		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.5		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		78 - 117	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.0		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		83 - 123	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	143000	5.375			
540-36-3	1,4-Difluorobenzene	261000	6.253			
3114-55-4	Chlorobenzene-d5	242000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	121000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	
Project:	Andrew St. RI	Date Received:	
Client Sample ID:	VU0927WBS02	SDG No.:	M3859
Lab Sample ID:	VU0927WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044907.D	1		09/27/21 23:33	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044907.D
Acq On : 27 Sep 2021 23:33
Operator : SY/MD
Sample : VU0927WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 28 06:29:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VU0927WBS02

Manual Integrations APPROVED
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9/28/2021 1:33:42 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.375	168	142658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	260838	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	242161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	120641	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	124072	49.833	ug/l	0.00
Spiked Amount 50.000			Recovery = 99.660%			
35) Dibromofluoromethane	5.295	113	87212	48.738	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.480%			
50) Toluene-d8	7.902	98	331412	49.039	ug/l	0.00
Spiked Amount 50.000			Recovery = 98.080%			
62) 4-Bromofluorobenzene	10.636	95	128144	51.051	ug/l	0.00
Spiked Amount 50.000			Recovery = 102.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	28596	16.737	ug/l	97
3) Chloromethane	1.520	50	34825	13.431	ug/l	98
4) Vinyl Chloride	1.607	62	35776	14.784	ug/l	100
5) Bromomethane	1.845	94	18888	12.566	ug/l	94
6) Chloroethane	1.916	64	26180	15.868	ug/l	98
7) Trichlorofluoromethane	2.128	101	53277	17.927	ug/l	98
8) Diethyl Ether	2.379	74	24511	18.017	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.578	101	30499	17.573	ug/l	98
10) Methyl Iodide	2.723	142	25200	13.362	ug/l	98
11) Tert butyl alcohol	3.272	59	64708m	89.044	ug/l	
12) 1,1-Dichloroethene	2.578	96	28220	16.429	ug/l	96
13) Acrolein	2.488	56	16755	85.208	ug/l	99
14) Allyl chloride	2.925	41	54834	16.447	ug/l	98
15) Acrylonitrile	3.321	53	129338	85.204	ug/l	100
16) Acetone	2.636	43	113421	80.761	ug/l	99
17) Carbon Disulfide	2.790	76	62783	12.993	ug/l	99
18) Methyl Acetate	2.954	43	78208	16.669	ug/l	99
19) Methyl tert-butyl Ether	3.369	73	125359	19.544	ug/l	100
20) Methylene Chloride	3.047	84	38016	16.722	ug/l	97
21) trans-1,2-Dichloroethene	3.353	96	30695	16.690	ug/l	95
22) Diisopropyl ether	3.999	45	119033	18.070	ug/l	96
23) Vinyl Acetate	3.961	43	479520	88.769	ug/l	99
24) 1,1-Dichloroethane	3.874	63	67284	17.598	ug/l	99
25) 2-Butanone	4.713	43	179688	84.325	ug/l	98
26) 2,2-Dichloropropane	4.671	77	48073	16.766	ug/l	100
27) cis-1,2-Dichloroethene	4.671	96	39575	17.693	ug/l	97
28) Bromochloromethane	4.980	49	29744	16.370	ug/l	95
29) Tetrahydrofuran	5.057	42	110779	82.634	ug/l	94
30) Chloroform	5.092	83	68522	17.824	ug/l	98
31) Cyclohexane	5.391	56	56397	15.777	ug/l	90
32) 1,1,1-Trichloroethane	5.321	97	55576	17.892	ug/l	100
36) 1,1-Dichloropropene	5.530	75	45645	16.493	ug/l	100
37) Ethyl Acetate	4.809	43	65301	16.081	ug/l	98
38) Carbon Tetrachloride	5.526	117	41557	16.796	ug/l	98
39) Methylcyclohexane	6.764	83	52310	16.712	ug/l	98
40) Benzene	5.777	78	142815	16.926	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044907.D
Acq On : 27 Sep 2021 23:33
Operator : SY/MD
Sample : VU0927WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 28 06:29:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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9/28/2021 1:33:42 PM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.980	41	34658	17.099	ug/l		96
42) 1,2-Dichloroethane	5.796	62	57808	17.415	ug/l		100
43) Isopropyl Acetate	5.919	43	101452	17.857	ug/l		99
44) Trichloroethene	6.546	130	32850	16.199	ug/l		99
45) 1,2-Dichloropropane	6.793	63	39145	17.142	ug/l		96
46) Dibromomethane	6.922	93	25955	17.153	ug/l		98
47) Bromodichloromethane	7.108	83	52095	17.454	ug/l		99
48) Methyl methacrylate	6.967	41	47407	17.679	ug/l		95
49) 1,4-Dioxane	6.989	88	26801	391.069	ug/l		97
51) 4-Methyl-2-Pentanone	7.800	43	359958	88.900	ug/l		99
52) Toluene	7.973	92	89921	17.825	ug/l		98
53) t-1,3-Dichloropropene	8.214	75	56130	18.050	ug/l		97
54) cis-1,3-Dichloropropene	7.610	75	58508	17.374	ug/l		97
55) 1,1,2-Trichloroethane	8.404	97	37637	17.450	ug/l		97
56) Ethyl methacrylate	8.337	69	66524	18.548	ug/l		98
57) 1,3-Dichloropropane	8.578	76	68568	17.854	ug/l		100
58) 2-Chloroethyl Vinyl ether	7.468	63	102709	124.062	ug/l		98
59) 2-Hexanone	8.693	43	291872	89.804	ug/l		98
60) Dibromochloromethane	8.812	129	36436	17.641	ug/l		99
61) 1,2-Dibromoethane	8.928	107	39649	17.508	ug/l		97
64) Tetrachloroethene	8.555	164	28894	17.603	ug/l		99
65) Chlorobenzene	9.449	112	92077	18.316	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	33126	18.474	ug/l		98
67) Ethyl Benzene	9.574	91	169674	18.910	ug/l		99
68) m/p-Xylenes	9.697	106	127688	37.207	ug/l		98
69) o-Xylene	10.105	106	65362	19.696	ug/l		99
70) Styrene	10.118	104	107273	17.957	ug/l		99
71) Bromoform	10.295	173	26825	18.081	ug/l	#	100
73) Isopropylbenzene	10.488	105	169828	19.834	ug/l		99
74) N-amyl acetate	10.324	43	89788	20.574	ug/l		100
75) 1,1,2,2-Tetrachloroethane	10.787	83	75682	19.401	ug/l		99
76) 1,2,3-Trichloropropane	10.828	75	72866m	19.946	ug/l		
77) Bromobenzene	10.787	156	39852	19.481	ug/l		99
78) n-propylbenzene	10.909	91	200937	19.367	ug/l		100
79) 2-Chlorotoluene	10.989	91	122890	19.434	ug/l		99
80) 1,3,5-Trimethylbenzene	11.092	105	144581	19.934	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.552	75	21274	18.865	ug/l		100
82) 4-Chlorotoluene	11.099	91	141040	19.592	ug/l		100
83) tert-Butylbenzene	11.423	119	143747	20.545	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	146552	20.496	ug/l		99
85) sec-Butylbenzene	11.648	105	182968	20.223	ug/l		99
86) p-Isopropyltoluene	11.796	119	148211	20.136	ug/l		99
87) 1,3-Dichlorobenzene	11.748	146	75382	18.989	ug/l		99
88) 1,4-Dichlorobenzene	11.841	146	75387	18.363	ug/l		97
89) n-Butylbenzene	12.211	91	127350	17.644	ug/l		99
90) Hexachloroethane	12.478	117	25834	19.478	ug/l		94
91) 1,2-Dichlorobenzene	12.214	146	79252	18.838	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.999	75	18350	19.400	ug/l		97
93) 1,2,4-Trichlorobenzene	13.844	180	44588	19.181	ug/l		99
94) Hexachlorobutadiene	14.024	225	17935	17.343	ug/l		98
95) Naphthalene	14.089	128	176776	19.687	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	46130	19.515	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044907.D
Acq On : 27 Sep 2021 23:33
Operator : SY/MD
Sample : VU0927WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 28 06:29:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092721\
Data File : VU044907.D
Acq On : 27 Sep 2021 23:33
Operator : SY/MD
Sample : VU0927WBS02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 28 06:29:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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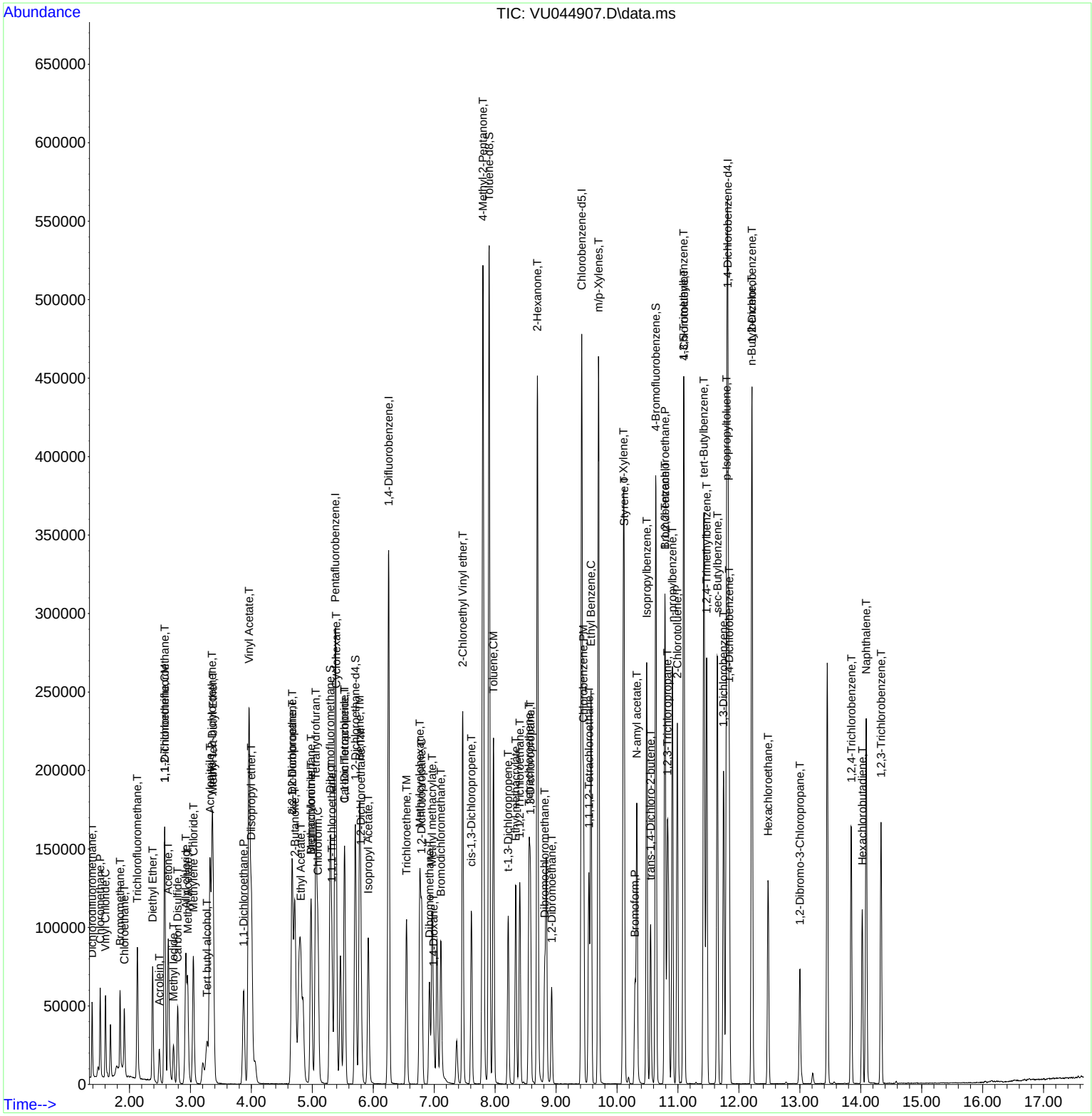

Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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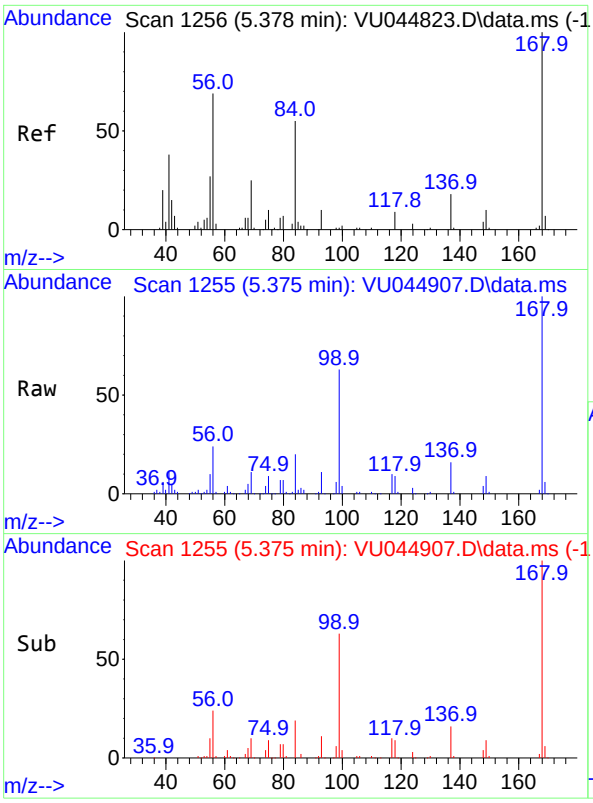
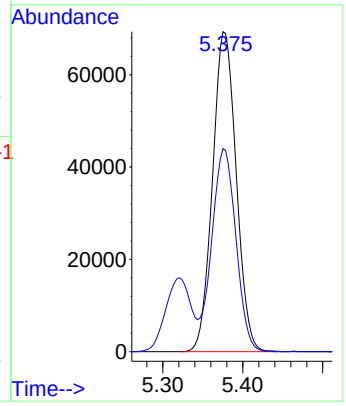
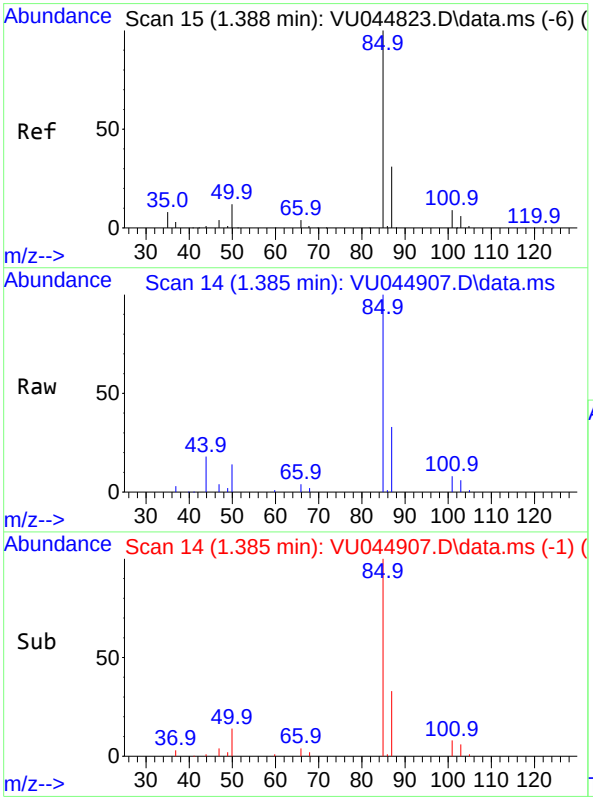


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:168 Resp: 142658

Ion	Ratio	Lower	Upper
168	100		
99	63.5	51.4	77.0

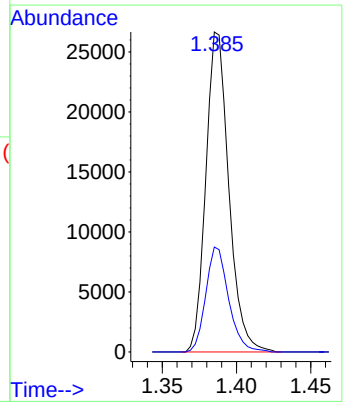




#2
Dichlorodifluoromethane
Concen: 16.737 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 85 Resp: 28596

Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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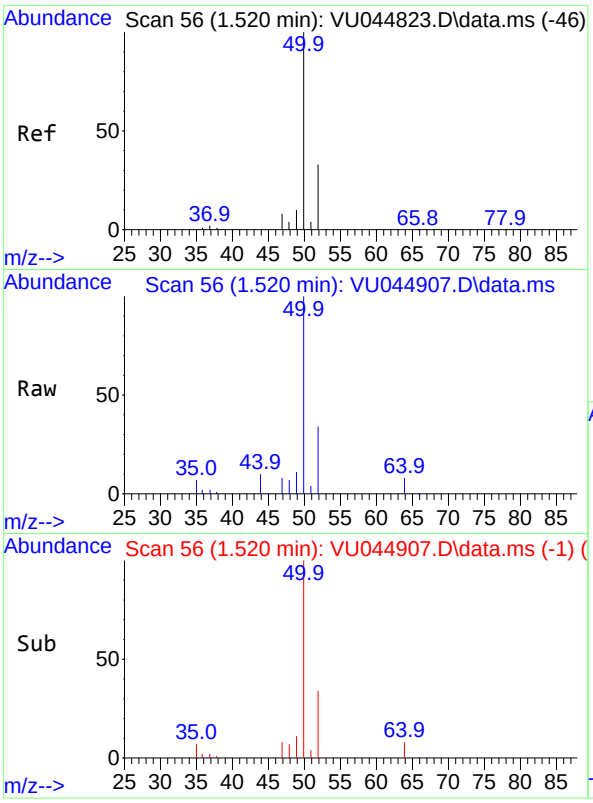
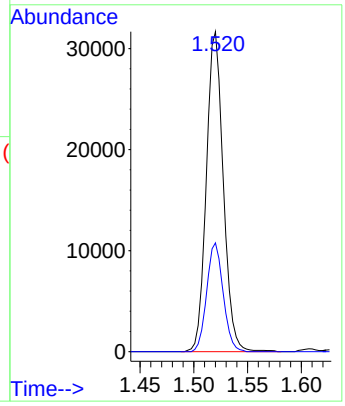
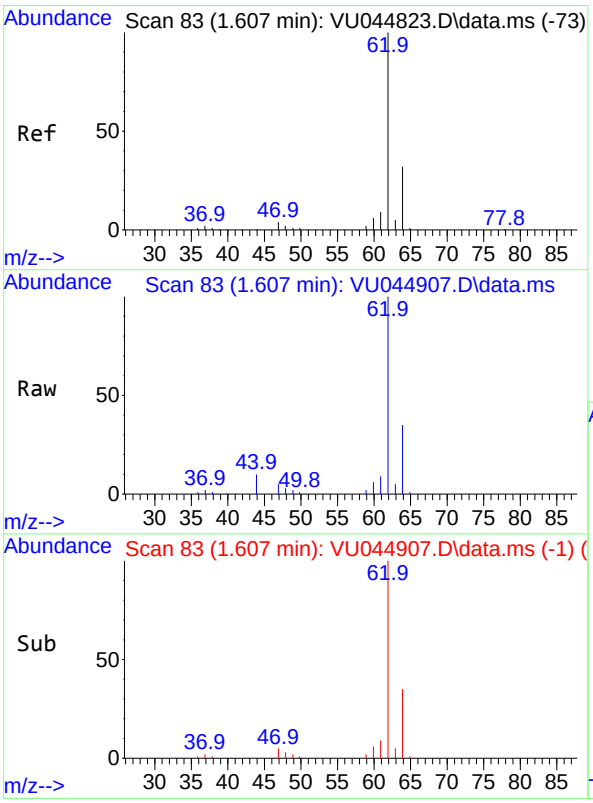


#3
Chloromethane
Concen: 13.431 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 50 Resp: 34825

Ion	Ratio	Lower	Upper
50	100		
52	34.0	26.3	39.5

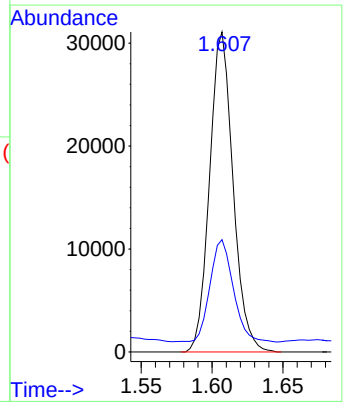




#4
Vinyl Chloride
Concen: 14.784 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 62 Resp: 35776

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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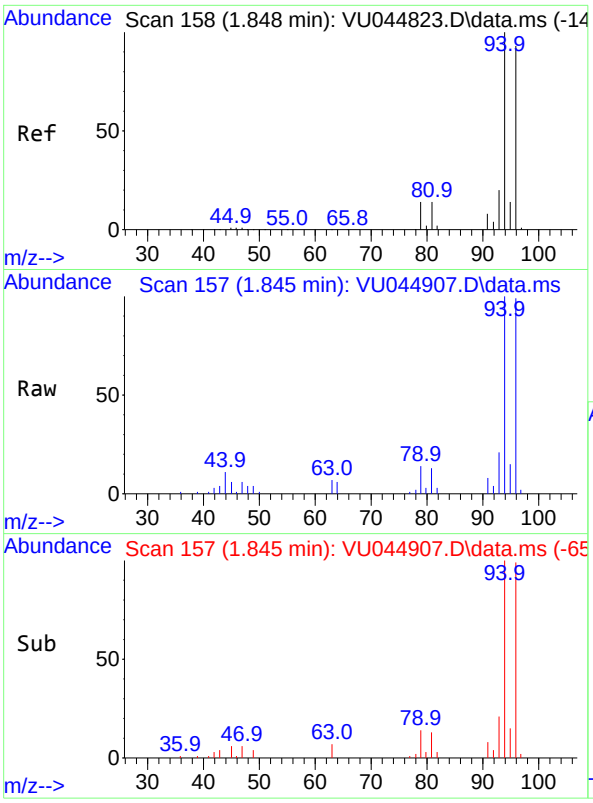
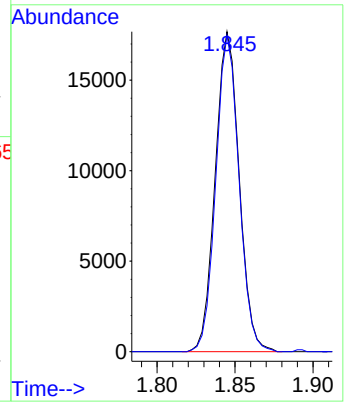
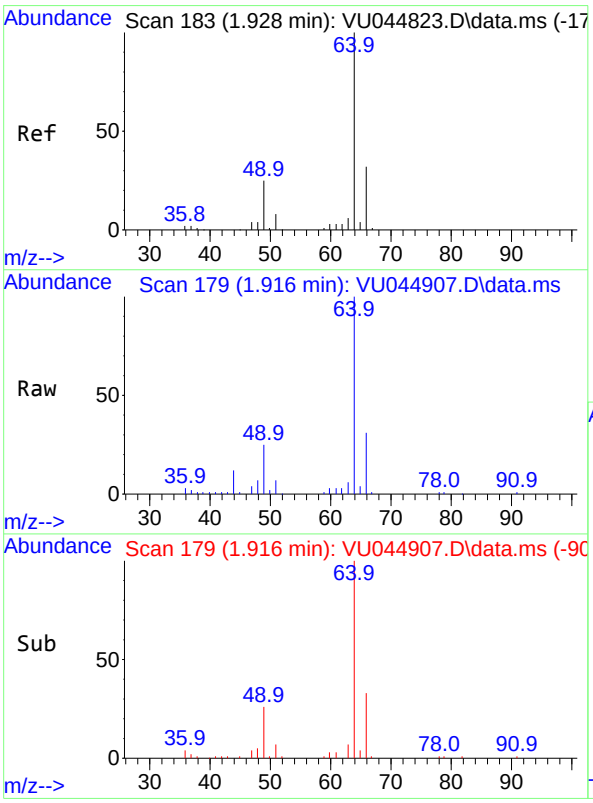


#5
Bromomethane
Concen: 12.566 ug/l
RT: 1.845 min Scan# 157
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 94 Resp: 18888

Ion	Ratio	Lower	Upper
94	100		
96	98.8	74.5	111.7

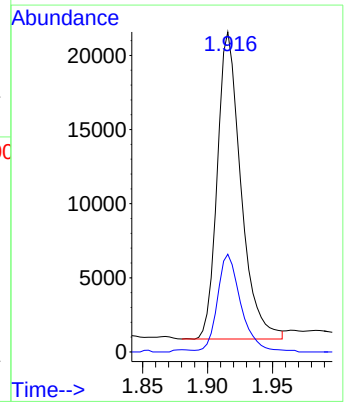




#6
Chloroethane
Concen: 15.868 ug/l
RT: 1.916 min Scan# 179
Delta R.T. -0.012 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 64 Resp: 26180

Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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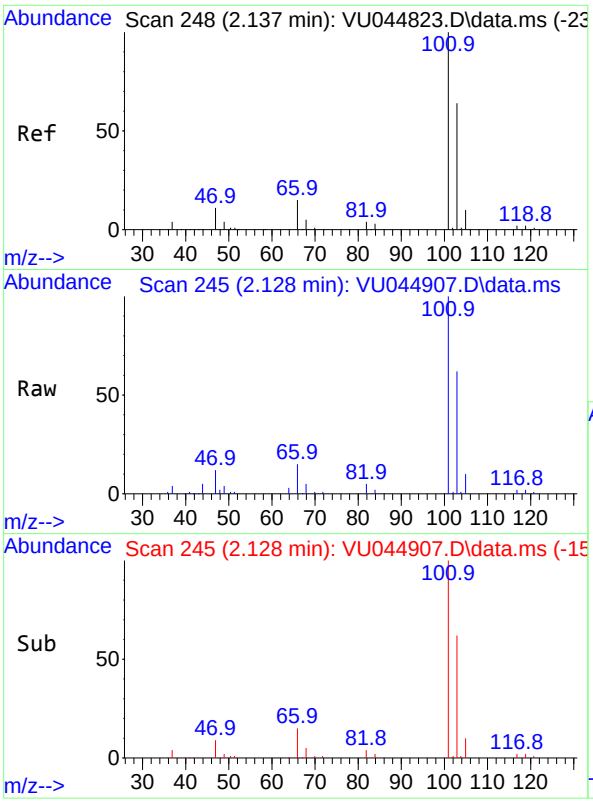
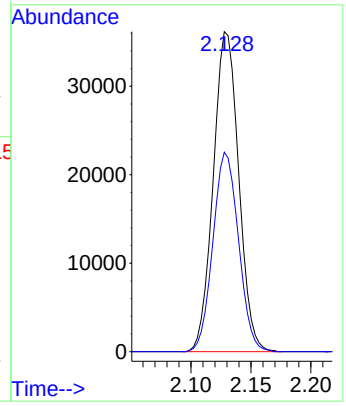
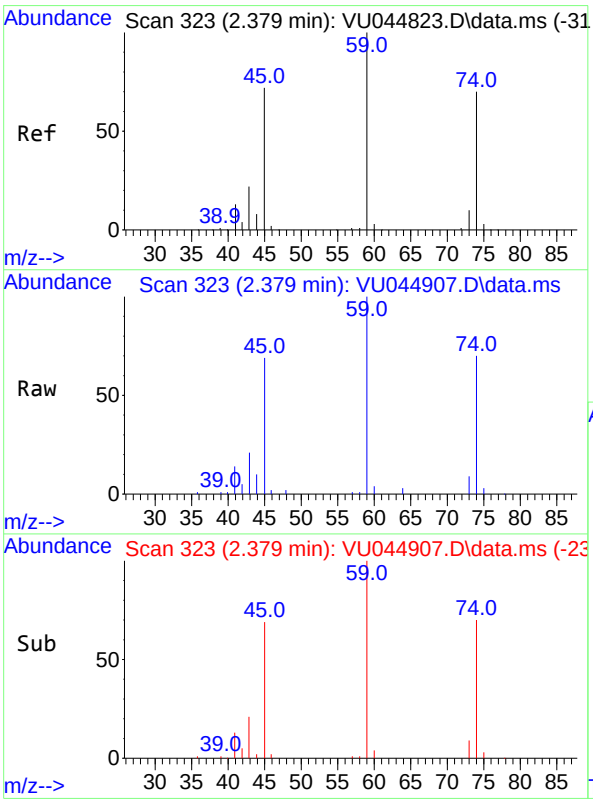


#7
Trichlorofluoromethane
Concen: 17.927 ug/l
RT: 2.128 min Scan# 245
Delta R.T. -0.010 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:101 Resp: 53277

Ion	Ratio	Lower	Upper
101	100		
103	62.3	51.2	76.8

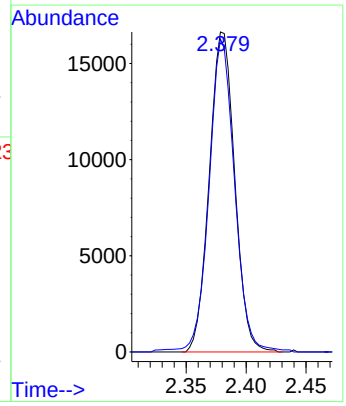




#8
Diethyl Ether
Concen: 18.017 ug/l
RT: 2.379 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 74 Resp: 24511

Ion	Ratio	Lower	Upper
74	100		
45	98.6	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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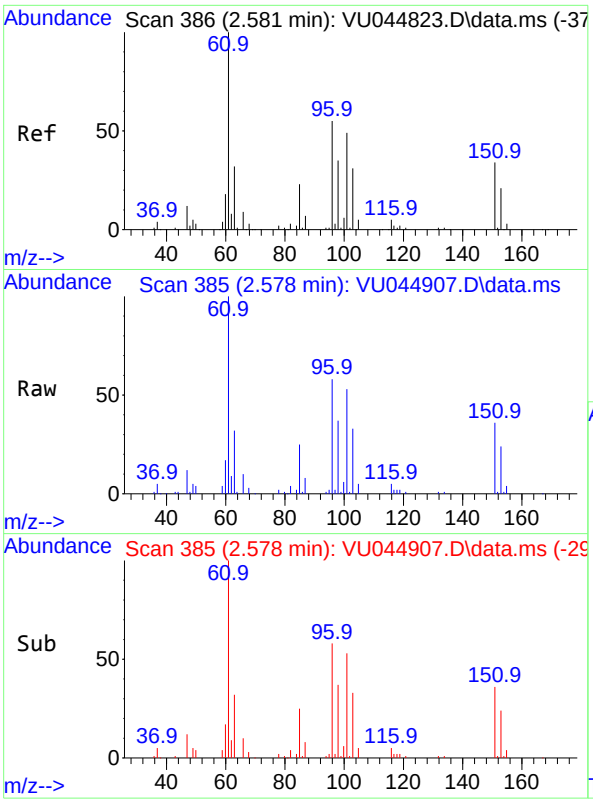
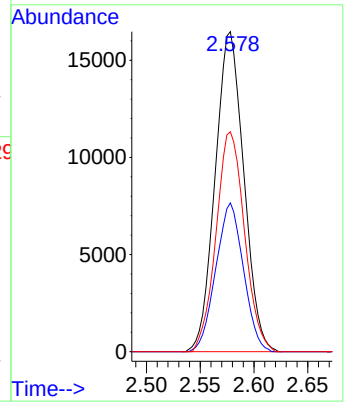
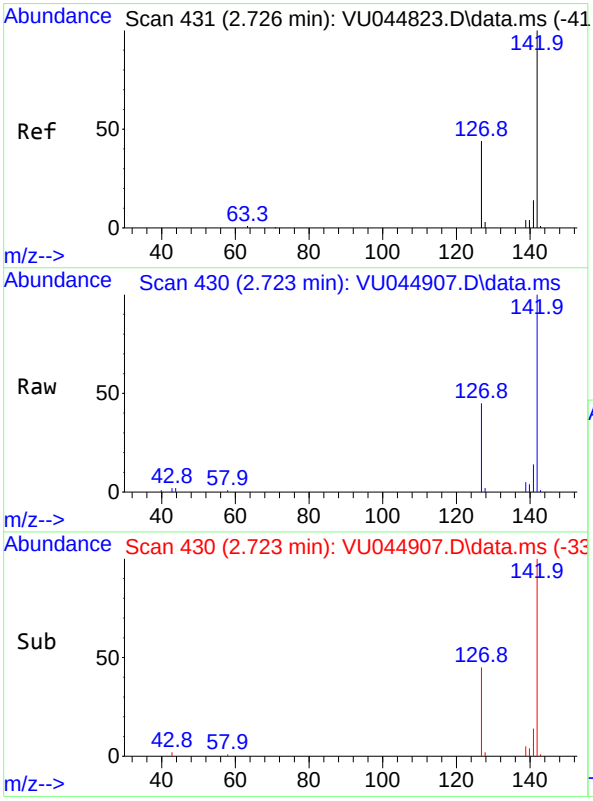


#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.573 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:101 Resp: 30499

Ion	Ratio	Lower	Upper
101	100		
85	45.0	37.2	55.8
151	68.4	55.8	83.8

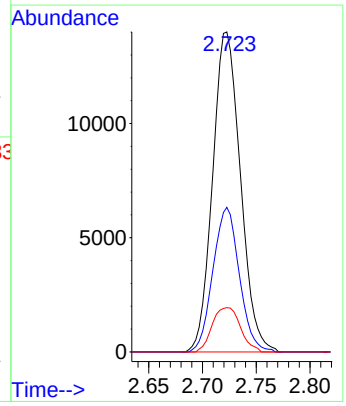




#10
Methyl Iodide
Concen: 13.362 ug/l
RT: 2.723 min Scan# 430
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:142 Resp: 25200

Ion	Ratio	Lower	Upper
142	100		
127	42.9	35.6	53.4
141	14.0	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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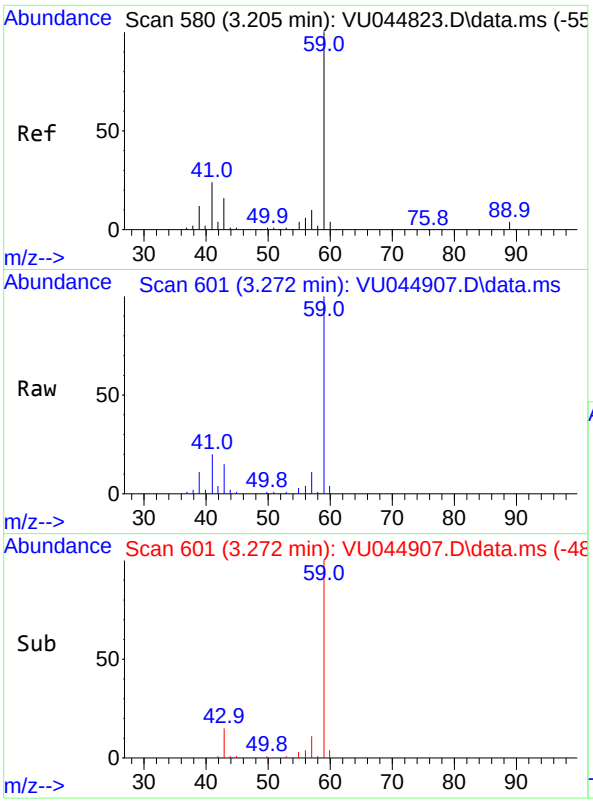
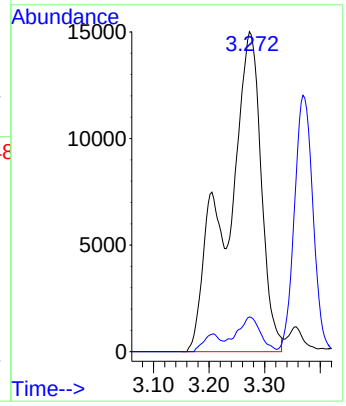
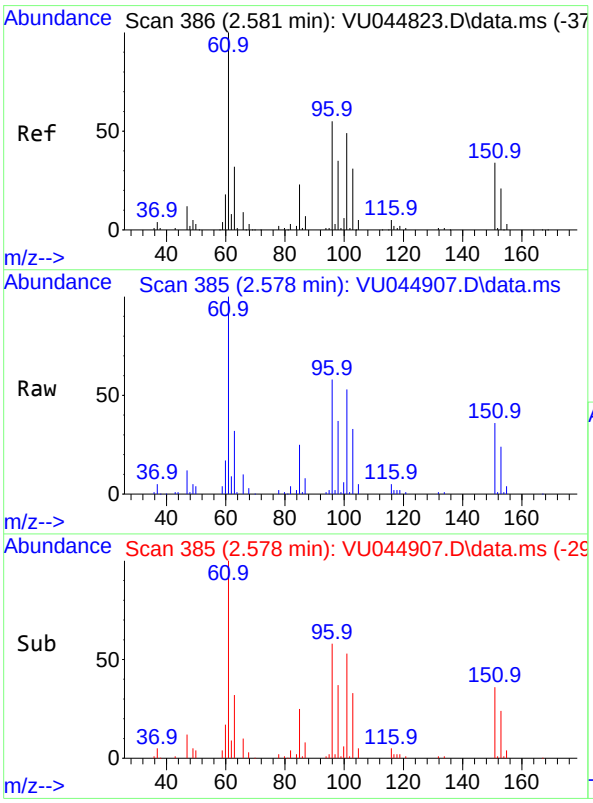


#11
Tert butyl alcohol
Concen: 89.044 ug/l m
RT: 3.272 min Scan# 601
Delta R.T. 0.067 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 59 Resp: 64708

Ion	Ratio	Lower	Upper
59	100		
57	2.8	8.3	12.5#

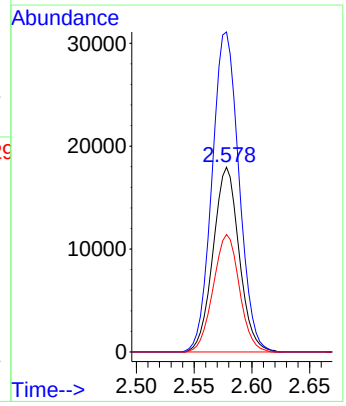




#12
1,1-Dichloroethene
Concen: 16.429 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 96 Resp: 28220

Ion	Ratio	Lower	Upper
96	100		
61	173.2	145.4	218.0
98	63.6	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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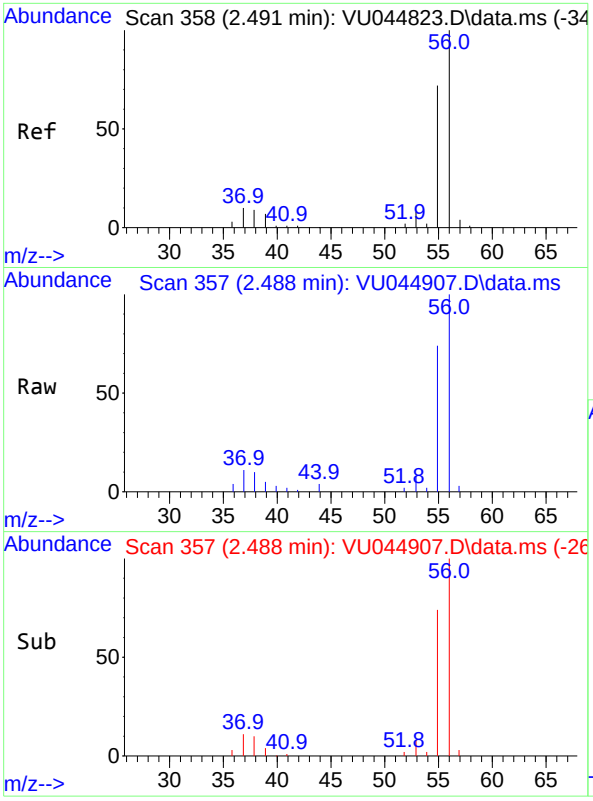
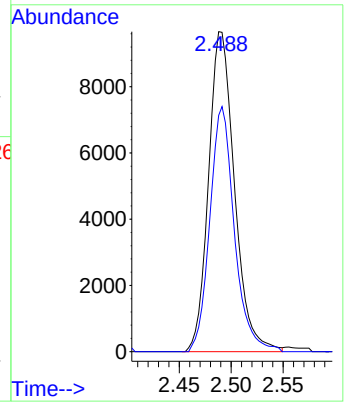
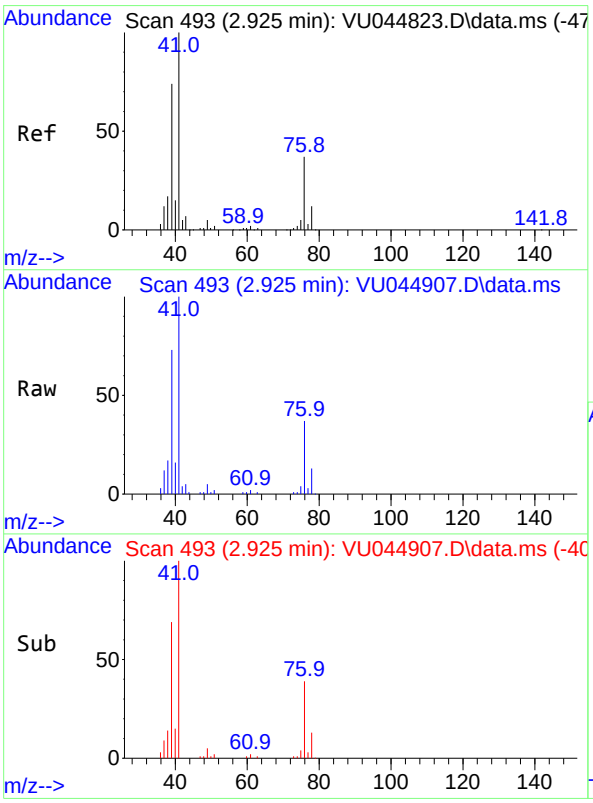


#13
Acrolein
Concen: 85.208 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 56 Resp: 16755

Ion	Ratio	Lower	Upper
56	100		
55	72.4	57.4	86.0

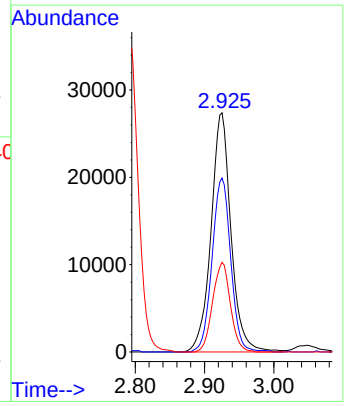




#14
Allyl chloride
Concen: 16.447 ug/l
RT: 2.925 min Scan# 493
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 41 Resp: 54834

Ion	Ratio	Lower	Upper
41	100		
39	67.6	53.0	79.6
76	33.2	25.7	38.5



Instrument :
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ClientSampleId :
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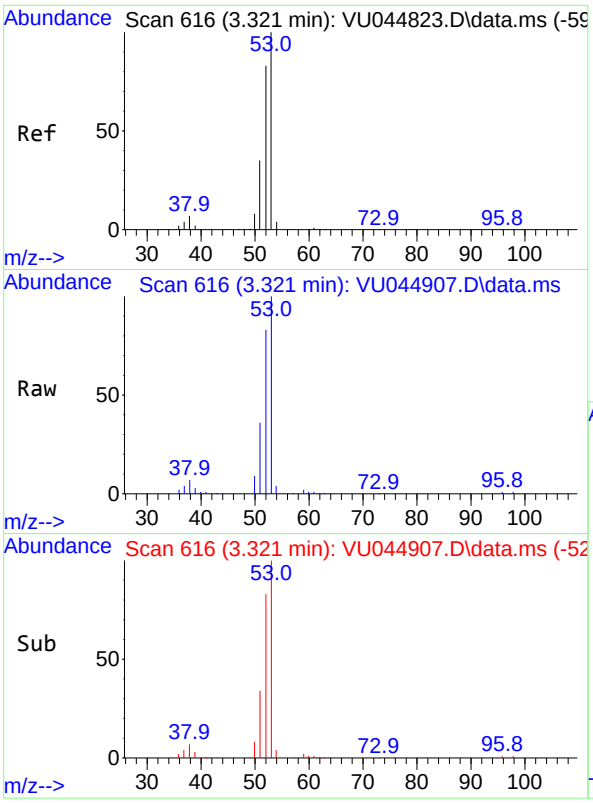
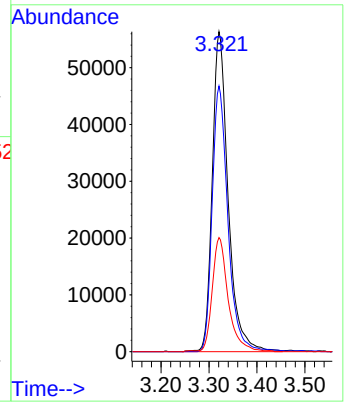
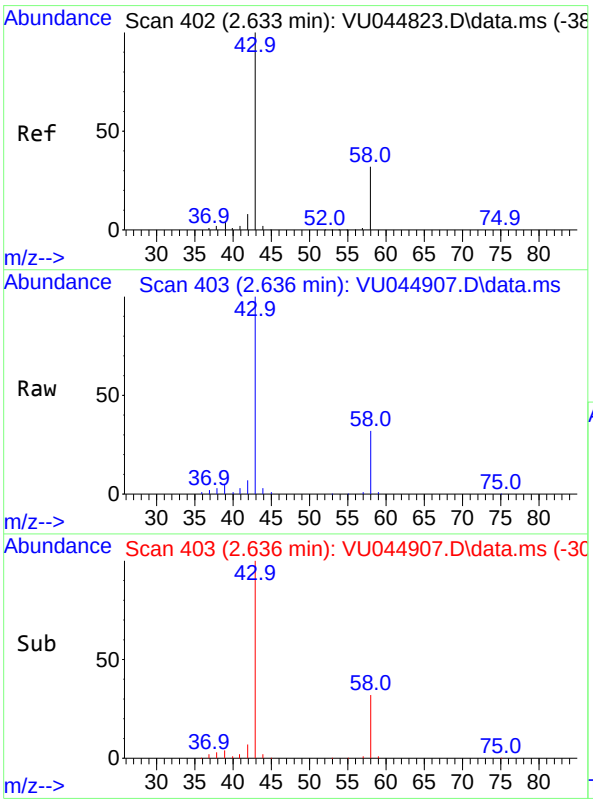


#15
Acrylonitrile
Concen: 85.204 ug/l
RT: 3.321 min Scan# 616
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 53 Resp: 129338

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.0	99.0
51	35.0	28.6	42.8

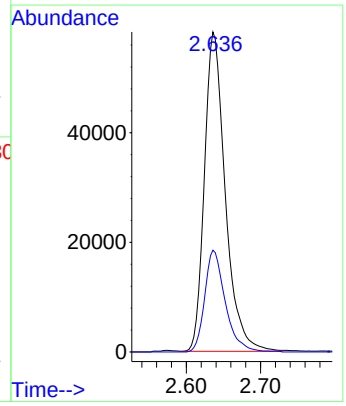




#16
Acetone
Concen: 80.761 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 113421

Ion	Ratio	Lower	Upper
43	100		
58	31.9	25.2	37.8



Instrument :
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ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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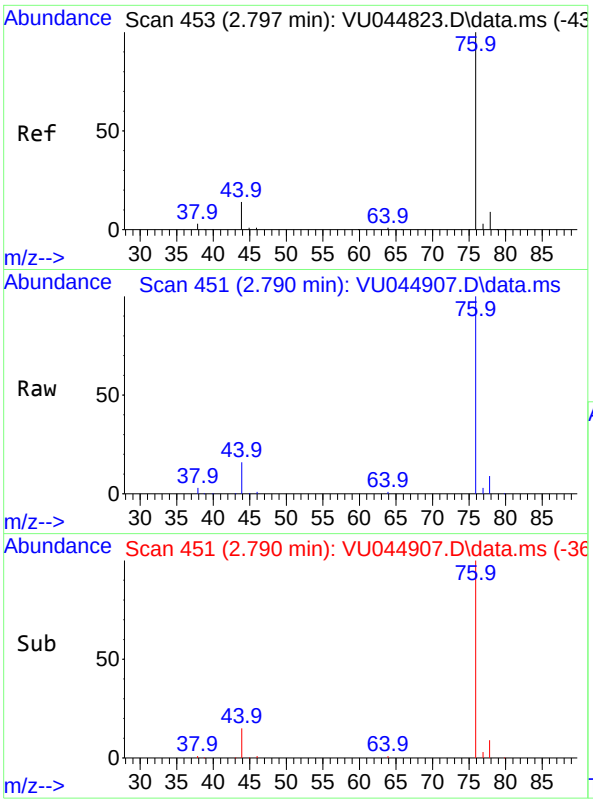
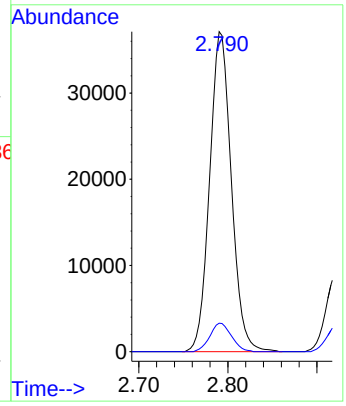
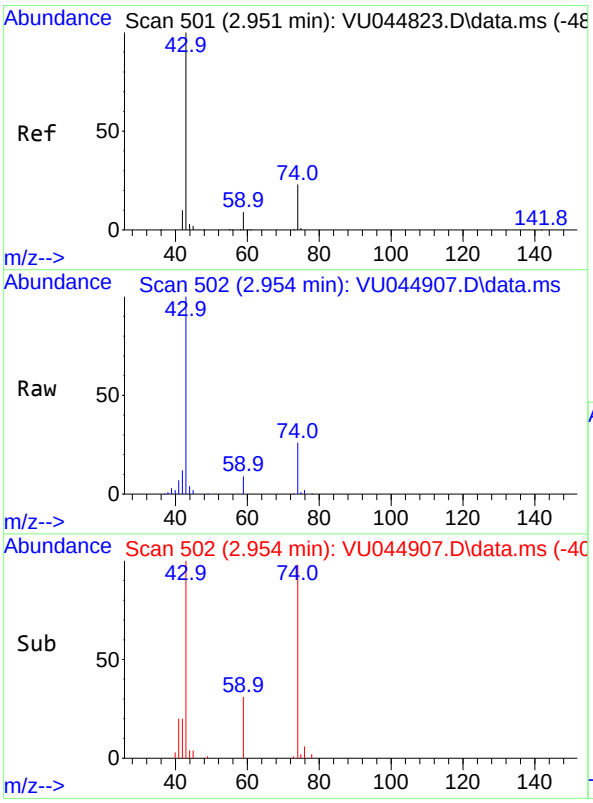


#17
Carbon Disulfide
Concen: 12.993 ug/l
RT: 2.790 min Scan# 451
Delta R.T. -0.006 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 76 Resp: 62783

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0

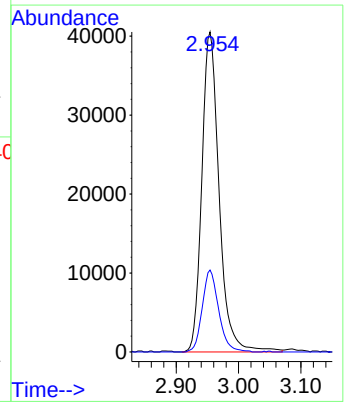




#18
Methyl Acetate
Concen: 16.669 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 78208

Ion	Ratio	Lower	Upper
43	100		
74	24.4	19.0	28.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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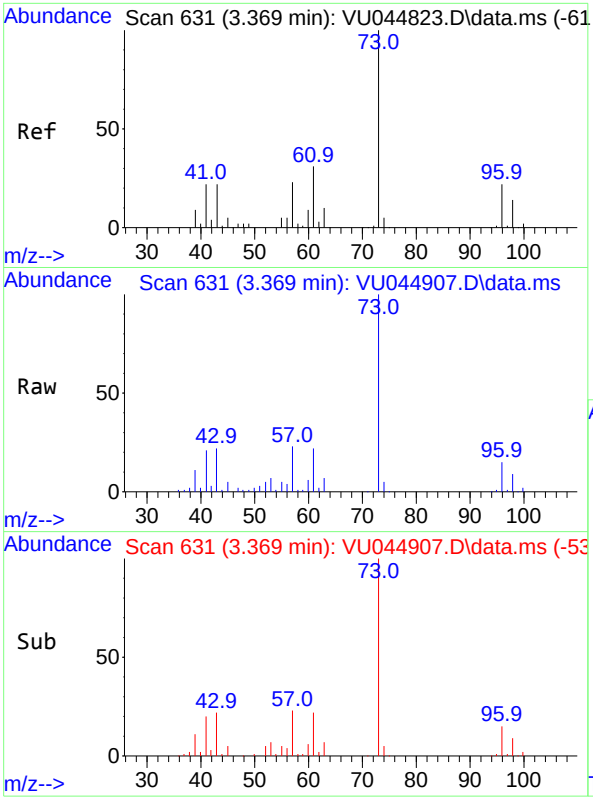
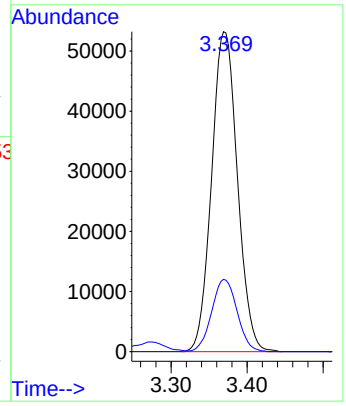
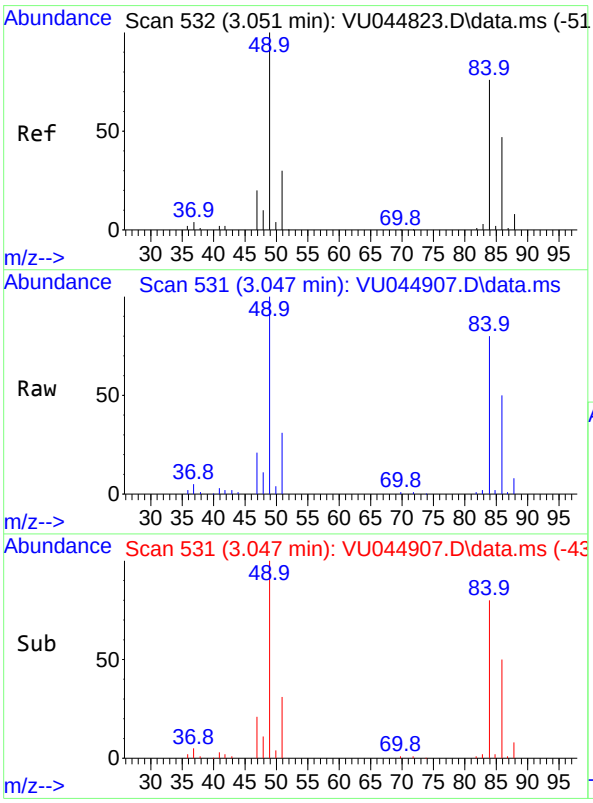


#19
Methyl tert-butyl Ether
Concen: 19.544 ug/l
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 73 Resp: 125359

Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.2	27.2

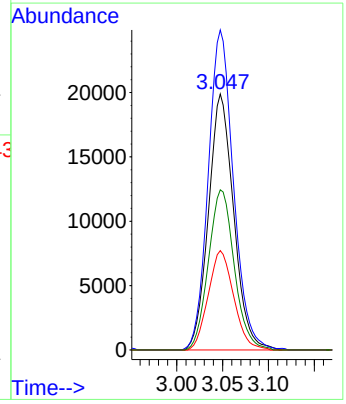




#20
Methylene Chloride
Concen: 16.722 ug/l
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 84 Resp: 38016

Ion	Ratio	Lower	Upper
84	100		
49	125.0	104.9	157.3
51	38.8	31.8	47.8
86	62.6	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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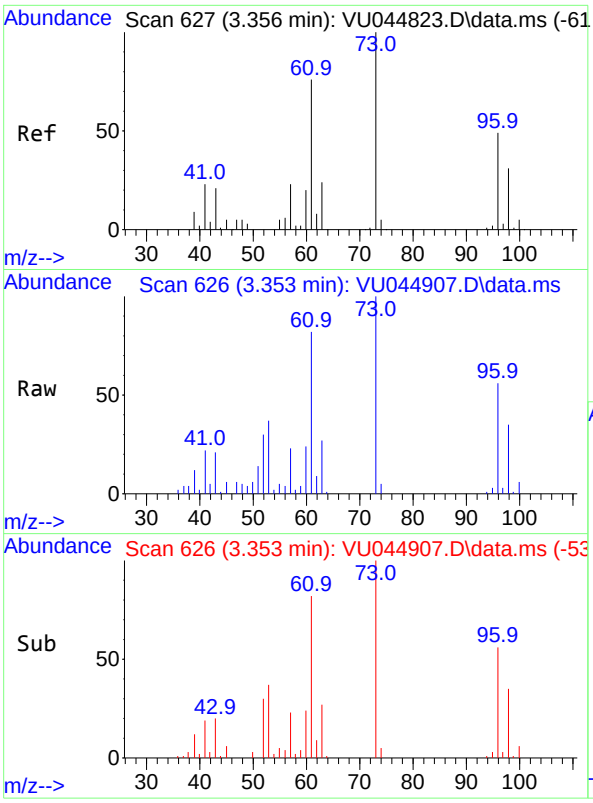
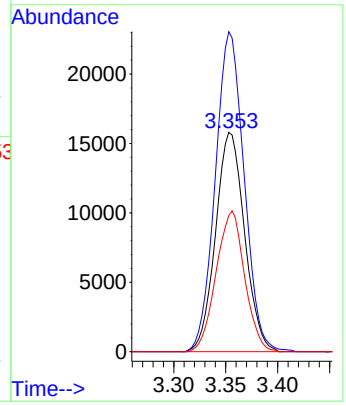
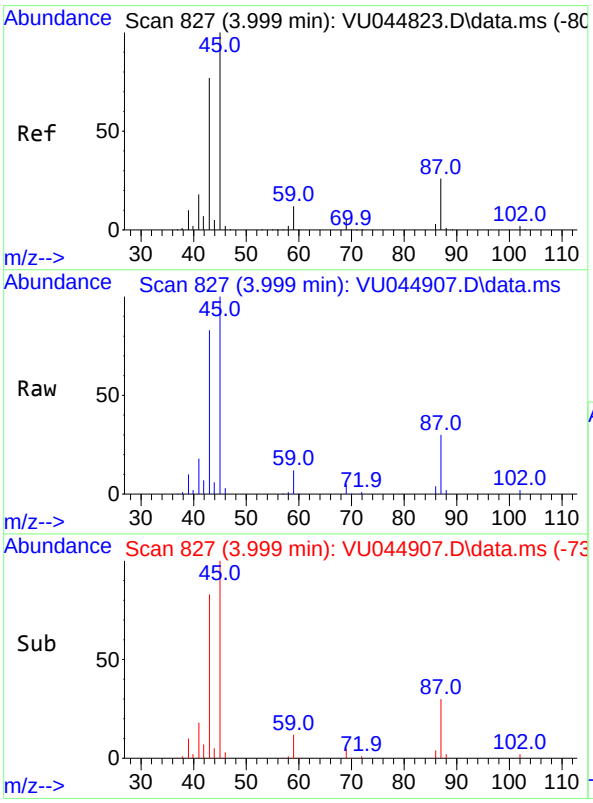


#21
trans-1,2-Dichloroethene
Concen: 16.690 ug/l
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 96 Resp: 30695

Ion	Ratio	Lower	Upper
96	100		
61	145.9	123.2	184.8
98	62.0	51.0	76.6

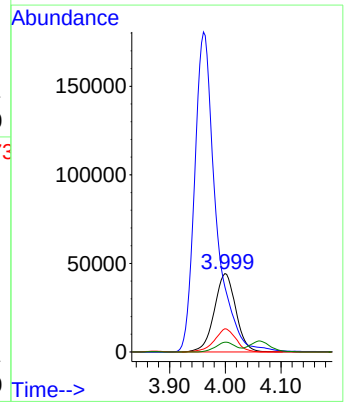




#22
Diisopropyl ether
Concen: 18.070 ug/l
RT: 3.999 min Scan# 827
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 45 Resp: 119033

Ion	Ratio	Lower	Upper
45	100		
43	81.5	62.3	93.5
87	29.6	21.0	31.4
59	12.5	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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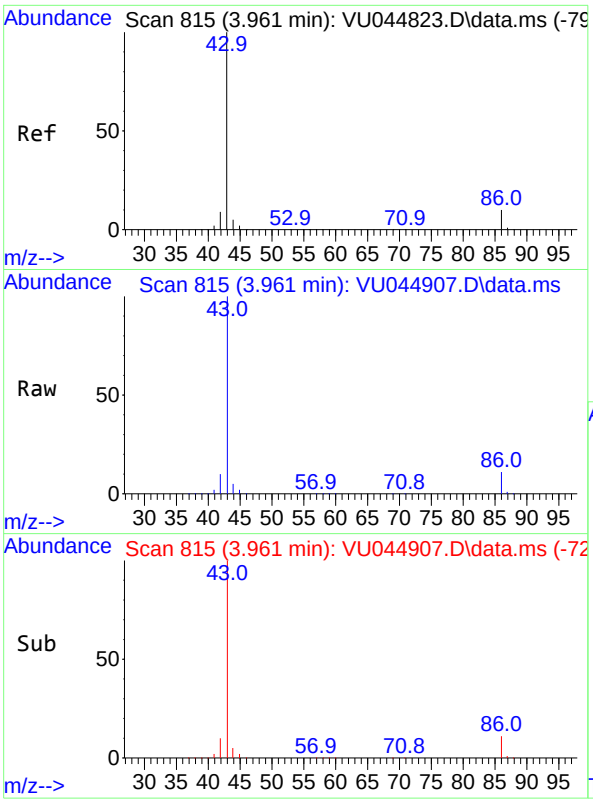
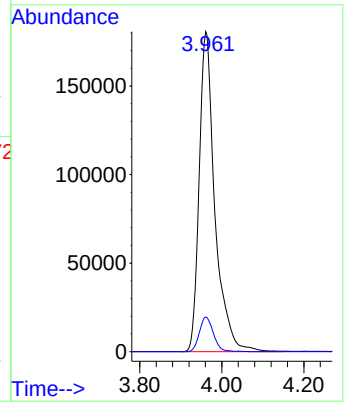
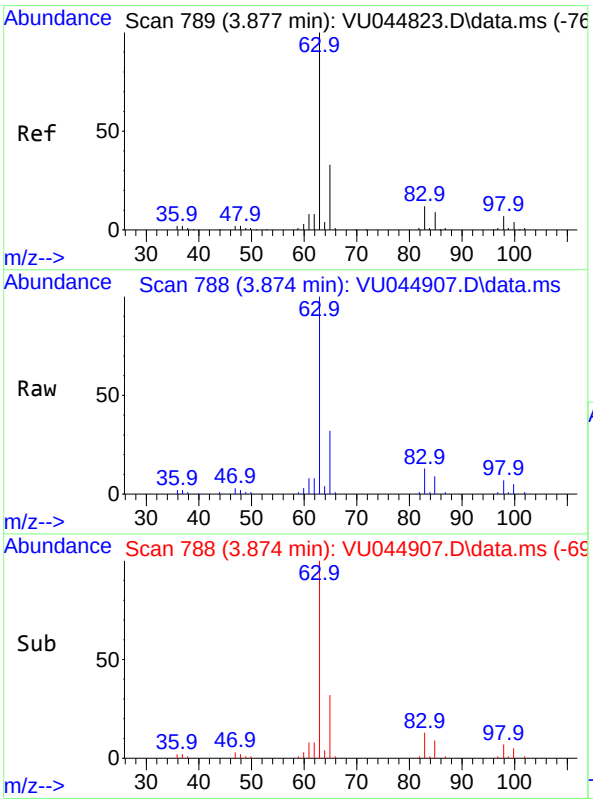


#23
Vinyl Acetate
Concen: 88.769 ug/l
RT: 3.961 min Scan# 815
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 479520

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.4

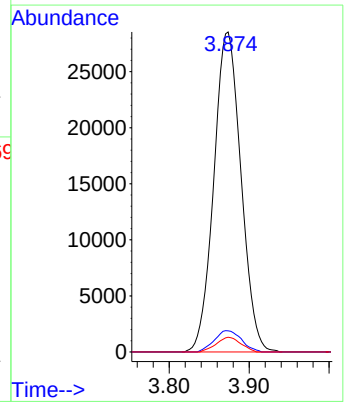




#24
1,1-Dichloroethane
Concen: 17.598 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 63 Resp: 67284

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.4
100	4.6	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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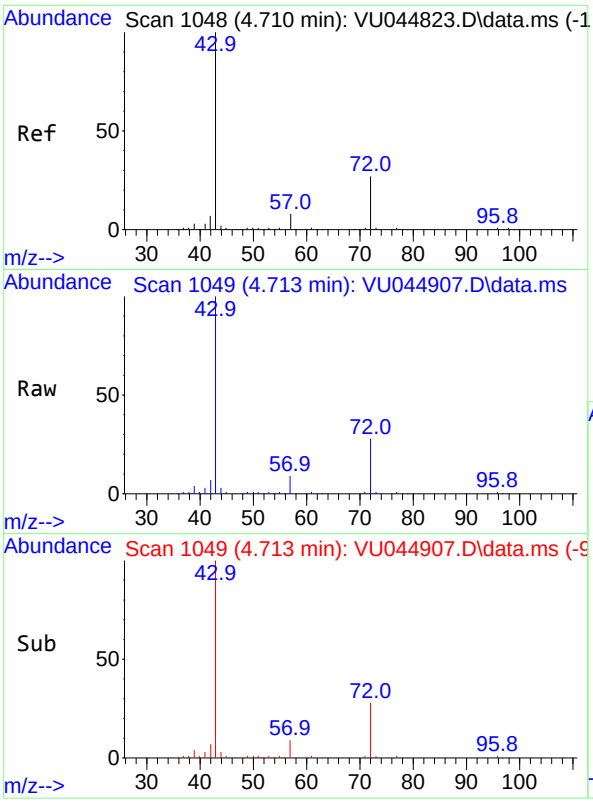
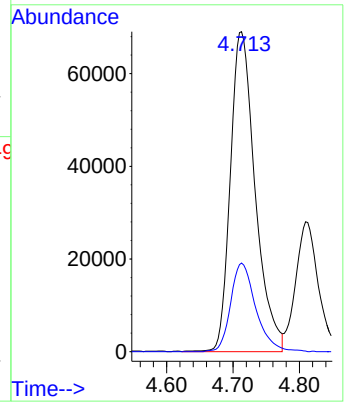
9/28/2021 1:33:42 PM

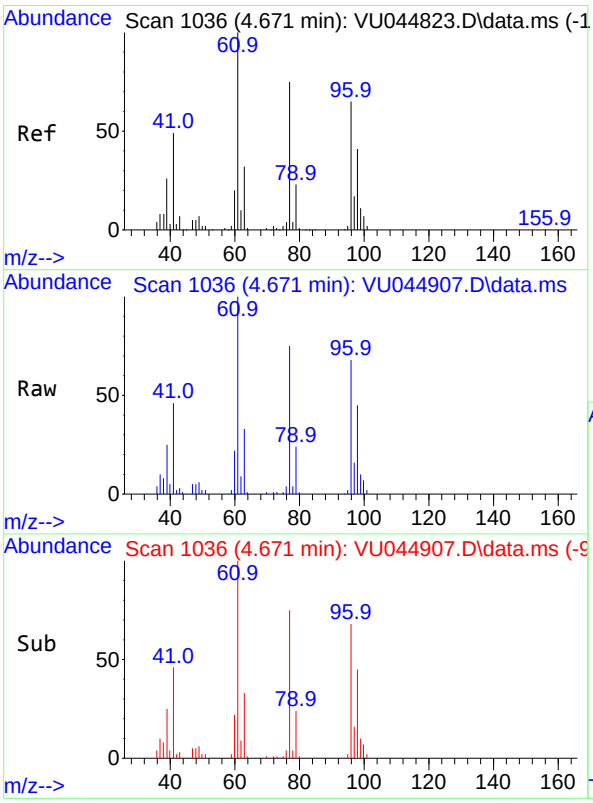


#25
2-Butanone
Concen: 84.325 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 179688

Ion	Ratio	Lower	Upper
43	100		
72	27.7	21.3	31.9

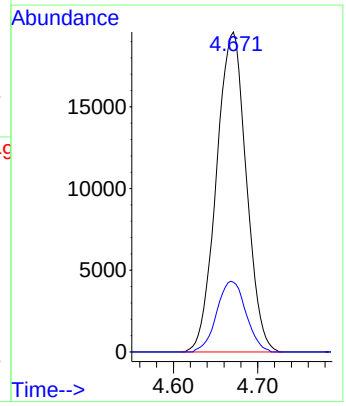




#26
2,2-Dichloropropane
Concen: 16.766 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 77 Resp: 48073

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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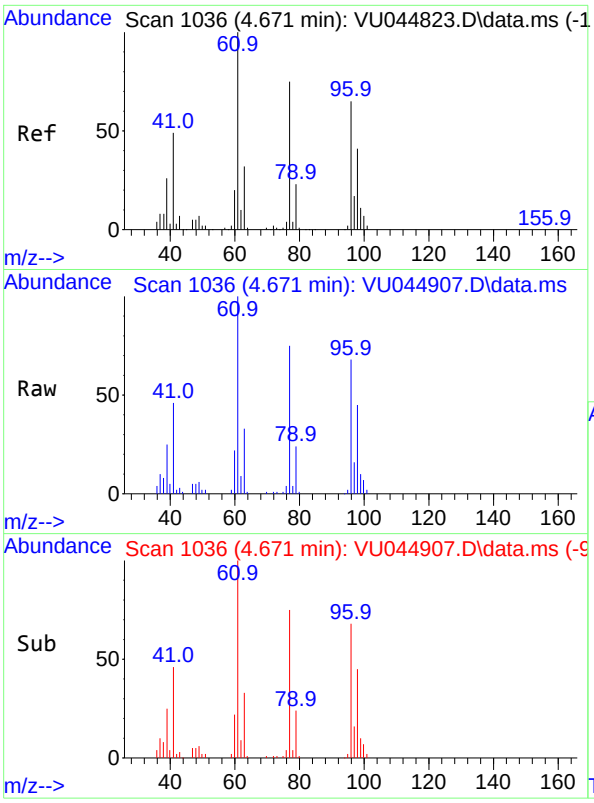
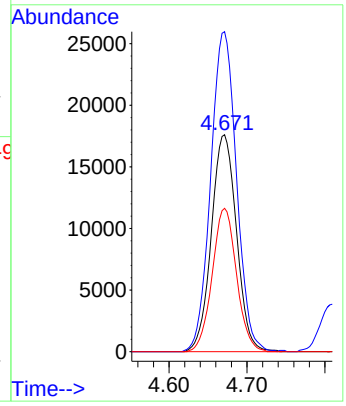
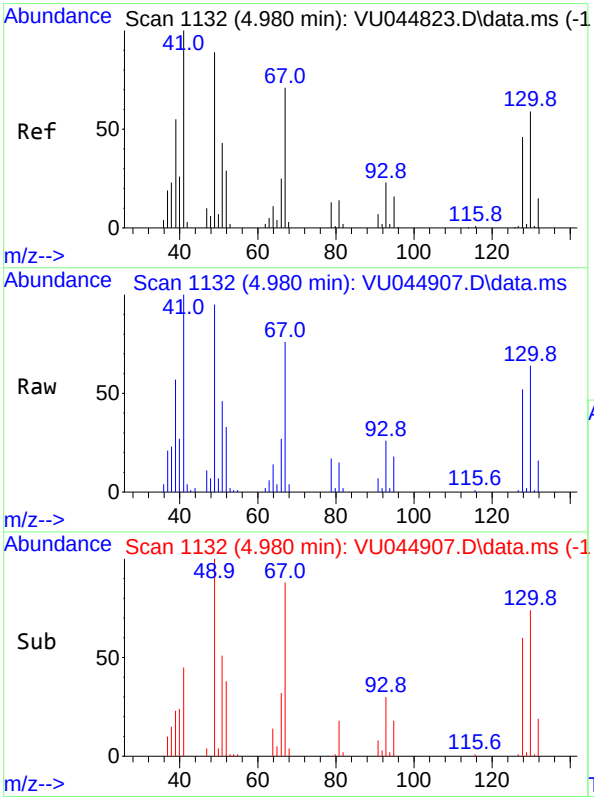


#27
cis-1,2-Dichloroethene
Concen: 17.693 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 96 Resp: 39575

Ion	Ratio	Lower	Upper
96	100		
61	151.1	0.0	313.4
98	63.8	0.0	127.0

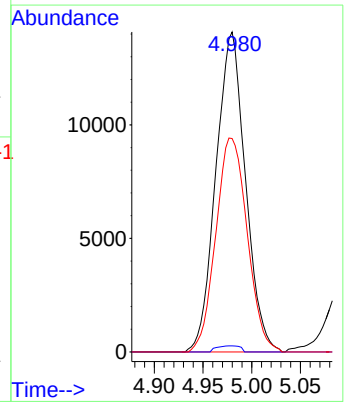




#28
Bromochloromethane
Concen: 16.370 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 49 Resp: 29744

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	71.0	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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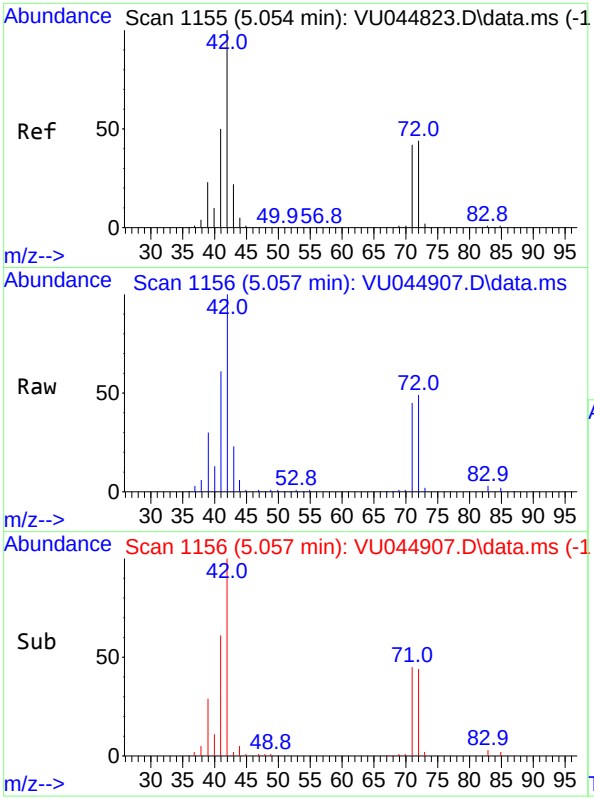
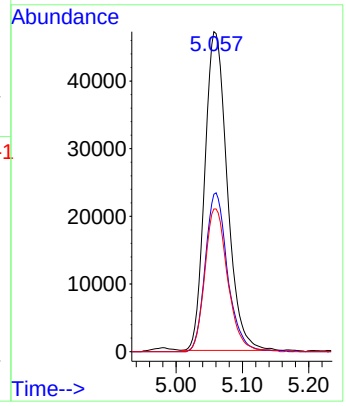
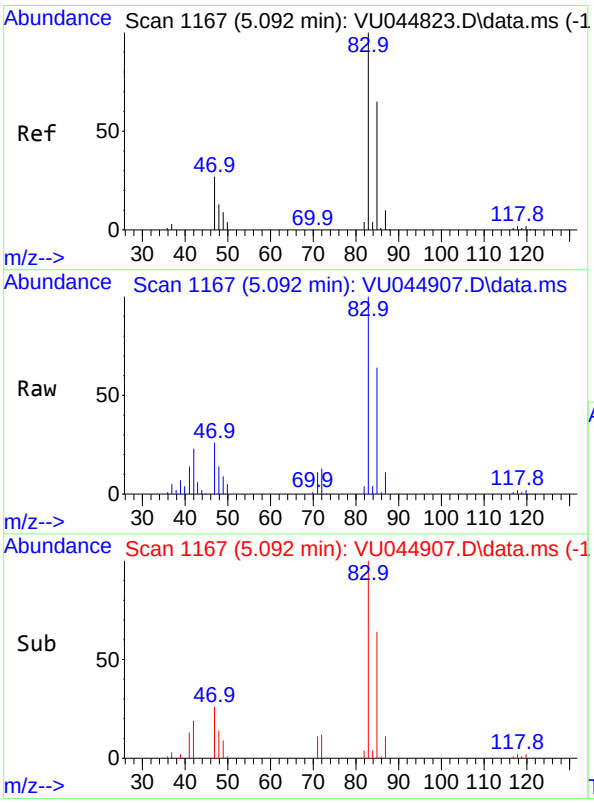


#29
Tetrahydrofuran
Concen: 82.634 ug/l
RT: 5.057 min Scan# 1156
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 42 Resp: 110779

Ion	Ratio	Lower	Upper
42	100		
72	49.7	36.2	54.4
71	45.7	34.1	51.1

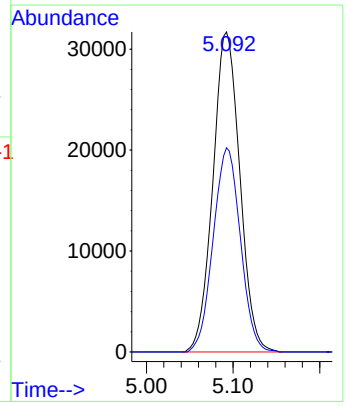




#30
Chloroform
Concen: 17.824 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 83 Resp: 68522

Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.1	78.1



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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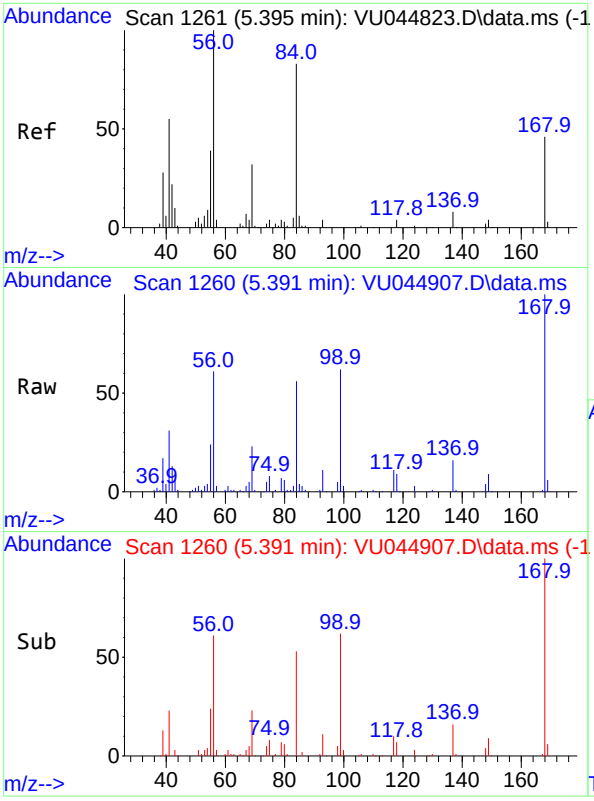
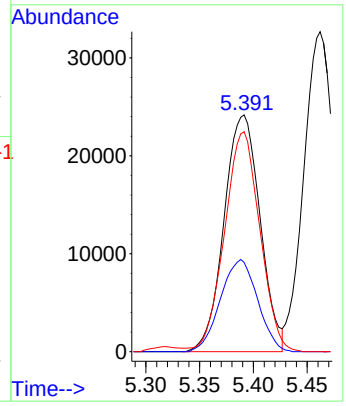
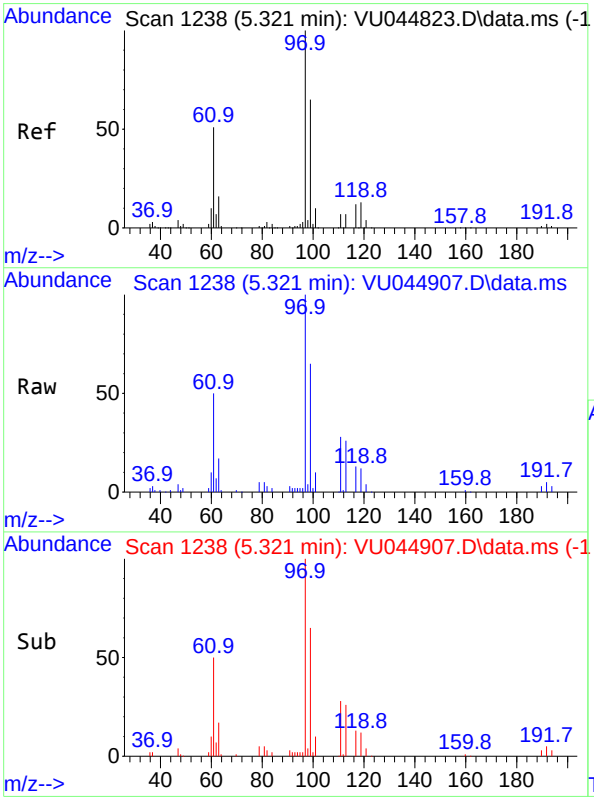


#31
Cyclohexane
Concen: 15.777 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 56 Resp: 56397

Ion	Ratio	Lower	Upper
56	100		
69	37.3	25.2	37.8
84	91.4	66.4	99.6

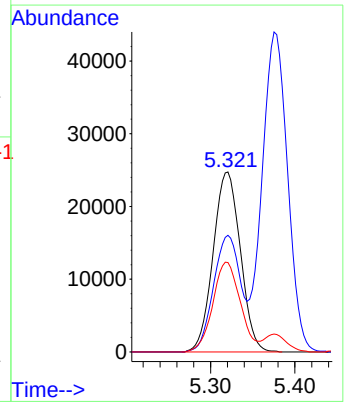




#32
1,1,1-Trichloroethane
Concen: 17.892 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 97 Resp: 55576

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.9	76.3
61	50.4	40.7	61.1



Instrument :
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ClientSampleId :
VU0927WBS02

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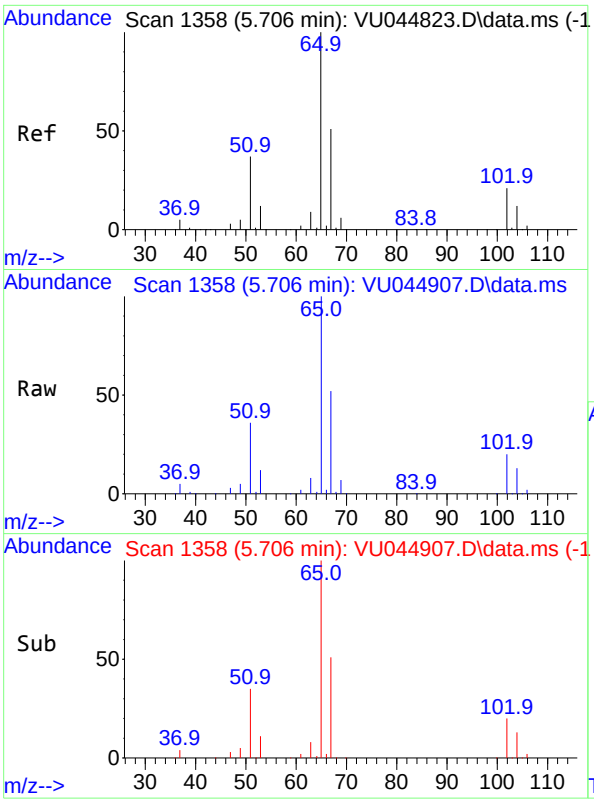
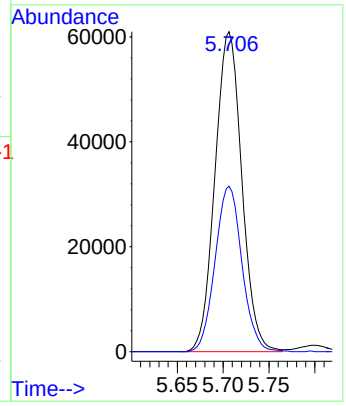
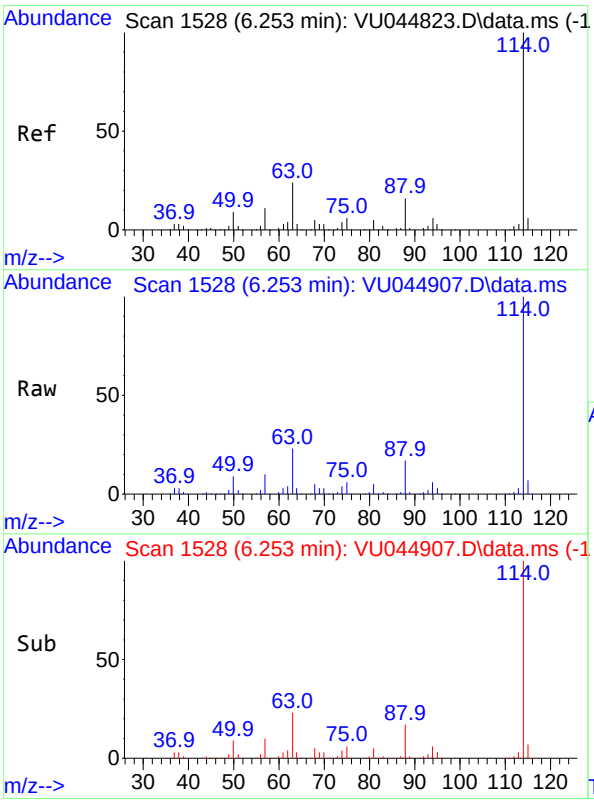


#33
1,2-Dichloroethane-d4
Concen: 49.833 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 65 Resp: 124072

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.8

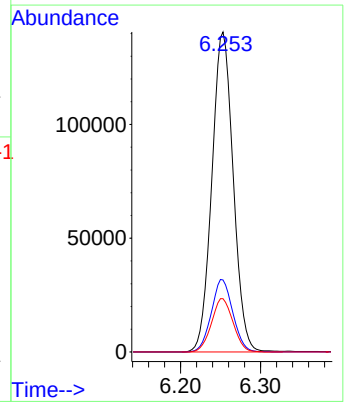




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:114 Resp: 260838

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	47.8
88	16.6	0.0	32.8



Instrument :
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ClientSampleId :
VU0927WBS02

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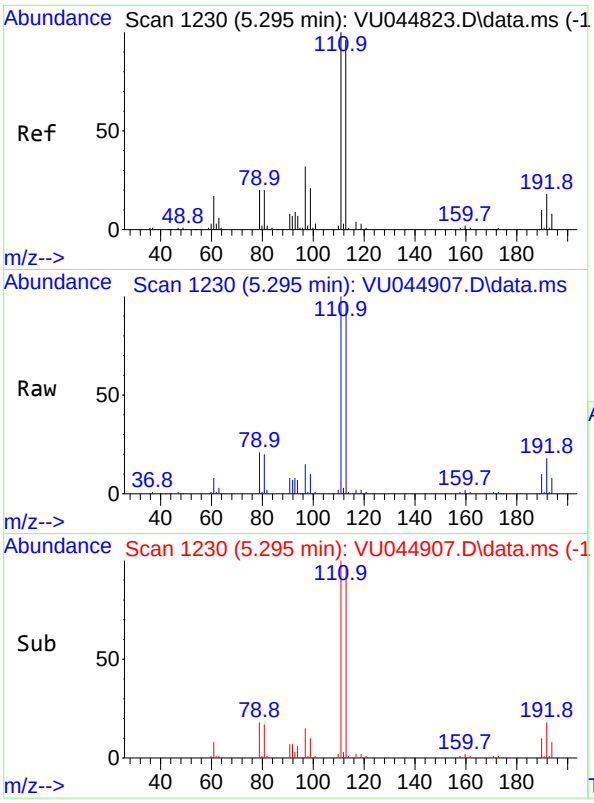
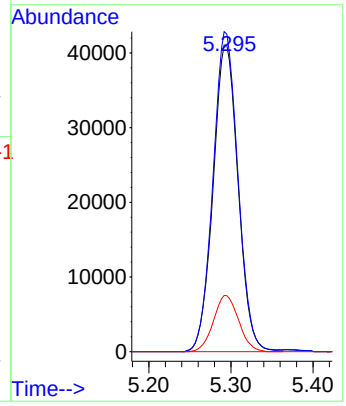
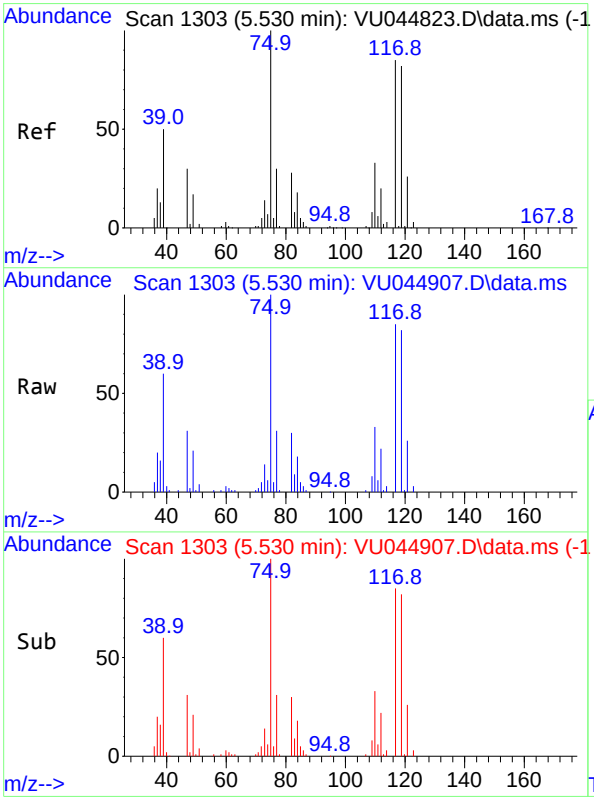


#35
Dibromofluoromethane
Concen: 48.738 ug/l
RT: 5.295 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:113 Resp: 87212

Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.1	126.1
192	18.4	14.8	22.2

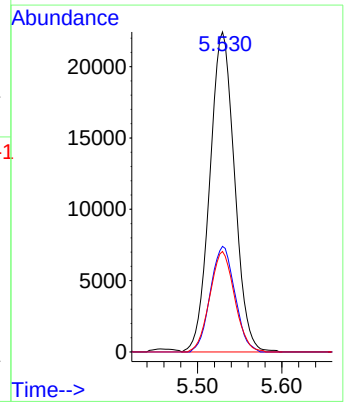




#36
1,1-Dichloropropene
Concen: 16.493 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 75 Resp: 45645

Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.3	48.9
77	31.5	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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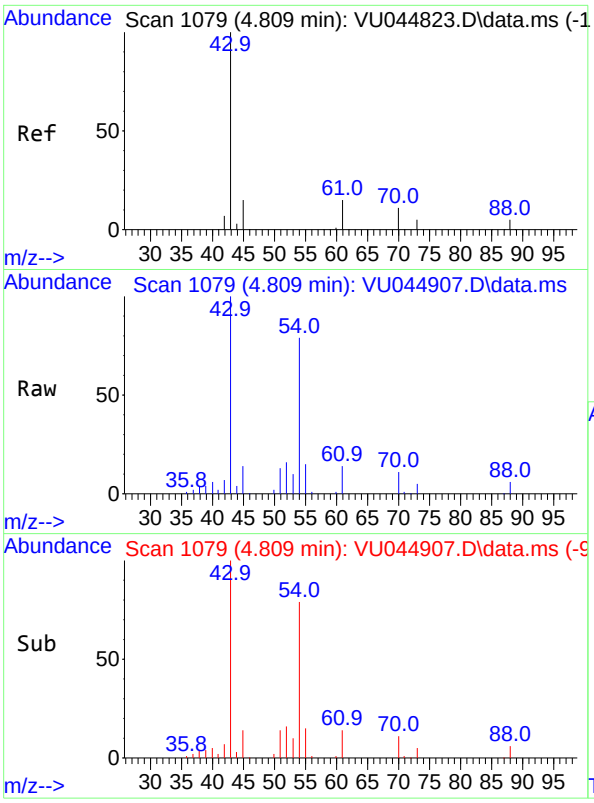
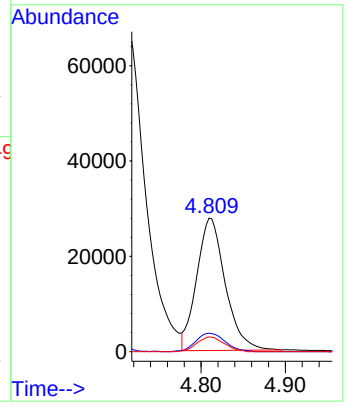
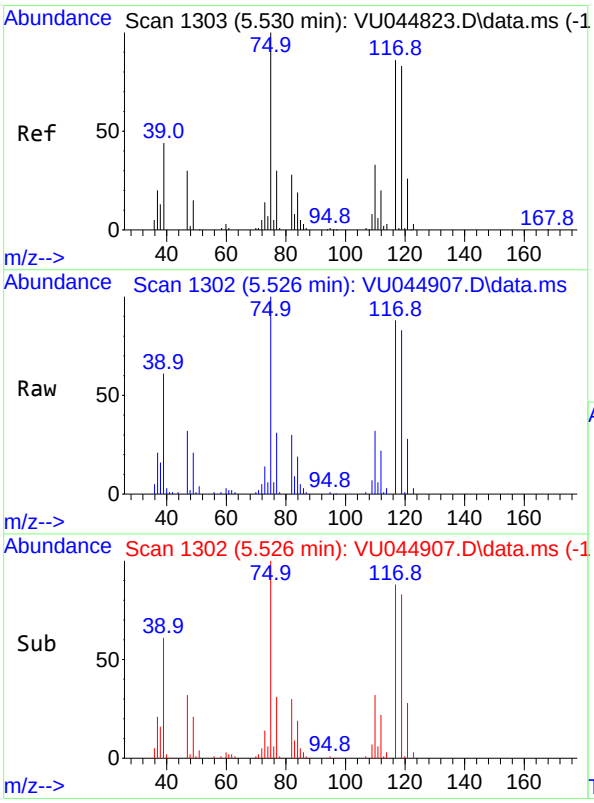


#37
Ethyl Acetate
Concen: 16.081 ug/l
RT: 4.809 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 65301

Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.9	16.3
70	10.7	8.2	12.4

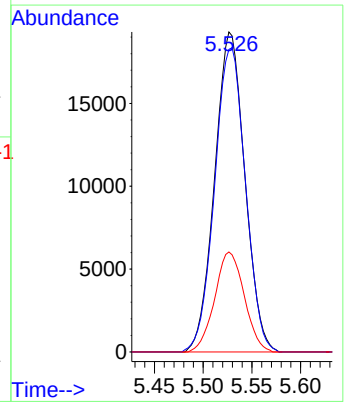




#38
Carbon Tetrachloride
Concen: 16.796 ug/l
RT: 5.526 min Scan# 1302
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:117 Resp: 41557

Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.4	116.2
121	31.3	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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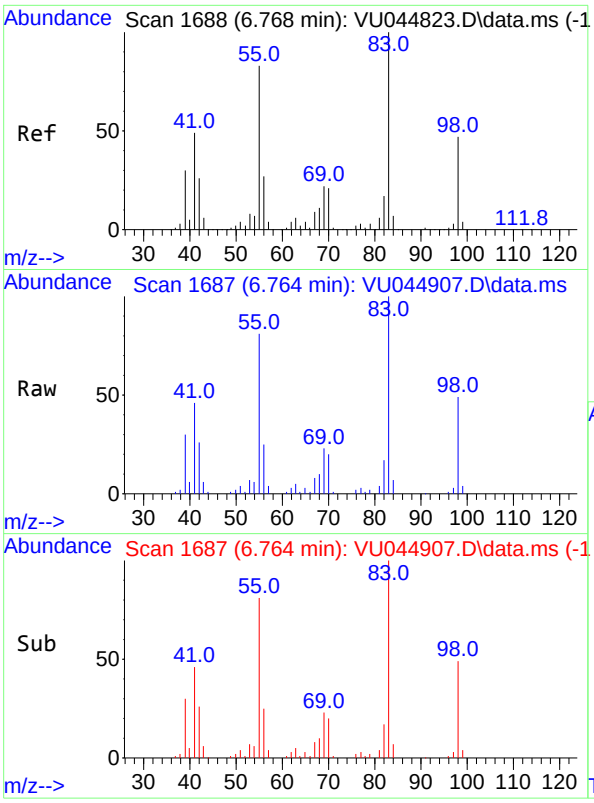
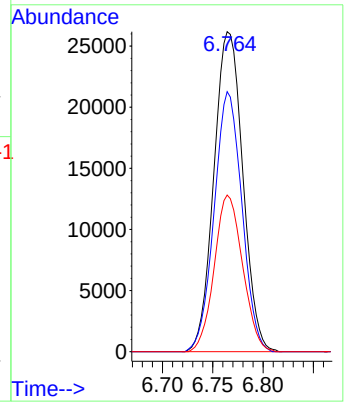
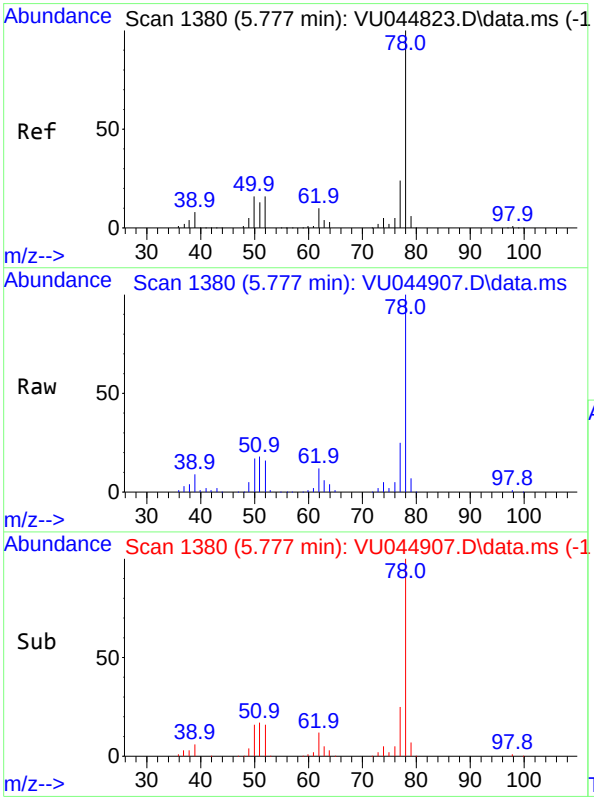


#39
Methylcyclohexane
Concen: 16.712 ug/l
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 83 Resp: 52310

Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.2	99.4
98	49.0	37.5	56.3

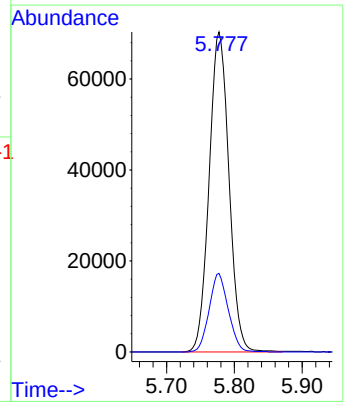




#40
Benzene
Concen: 16.926 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 78 Resp: 142815

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.1	28.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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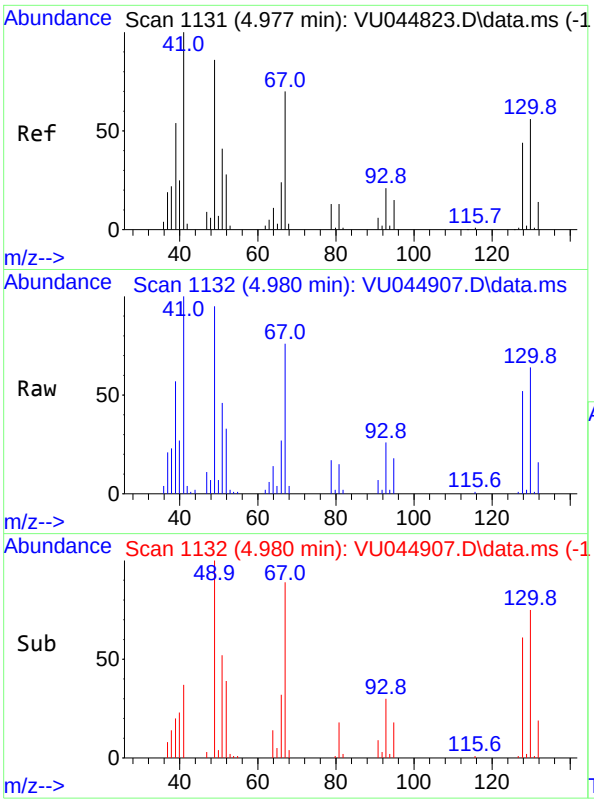
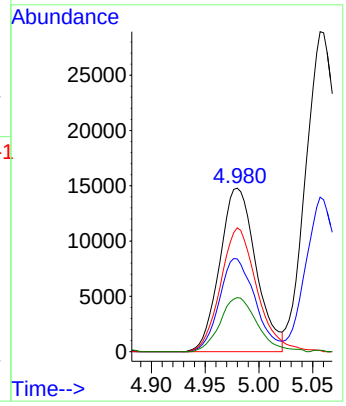
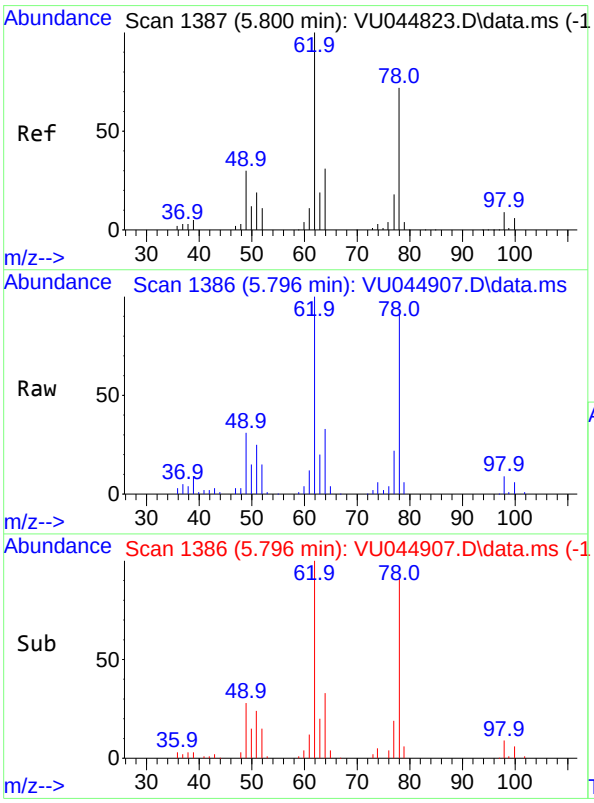


#41
Methacrylonitrile
Concen: 17.099 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 41 Resp: 34658

Ion	Ratio	Lower	Upper
41	100		
39	56.6	44.4	66.6
67	76.0	58.1	87.1
52	33.8	23.8	35.8

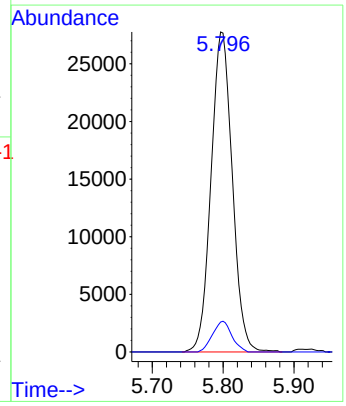




#42
1,2-Dichloroethane
Concen: 17.415 ug/l
RT: 5.796 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 62 Resp: 57808

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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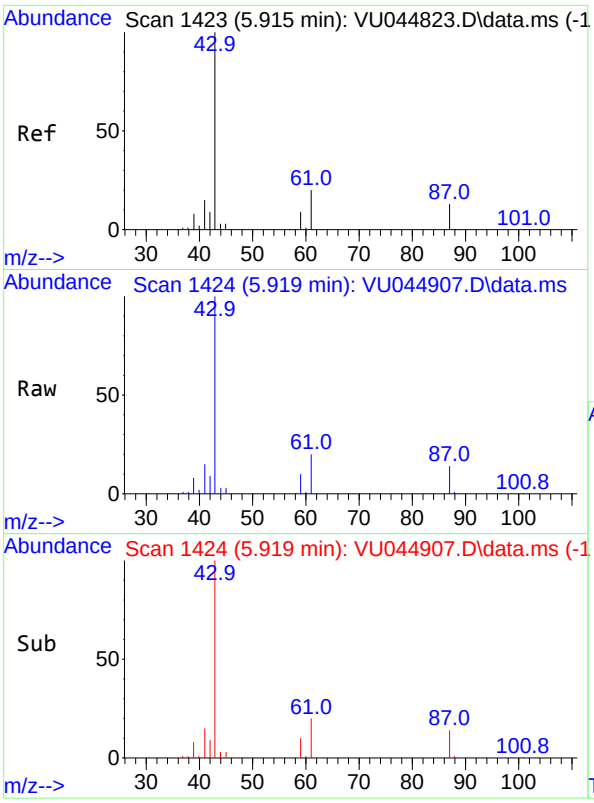
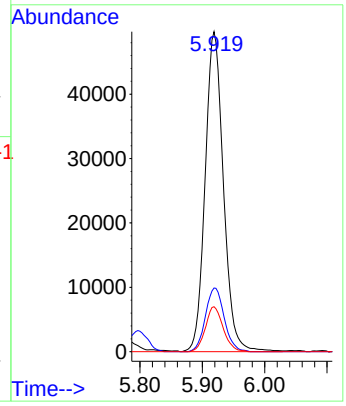
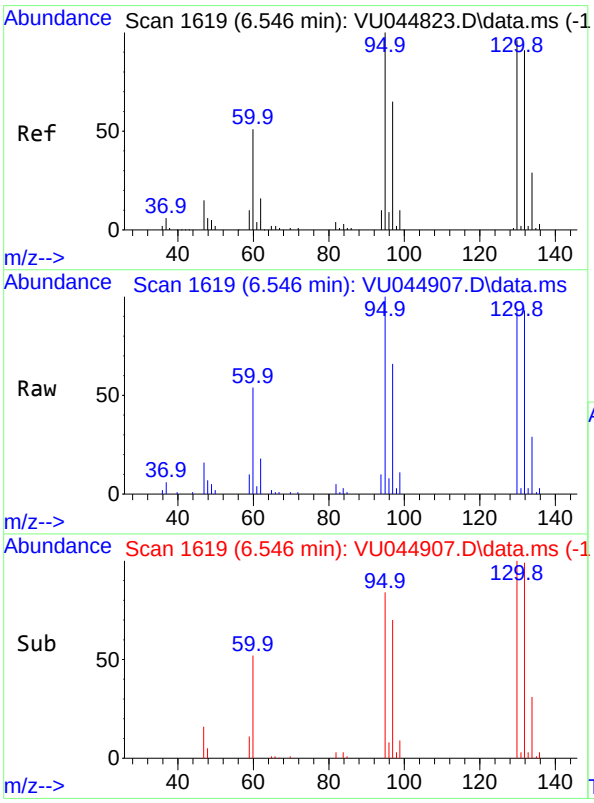


#43
Isopropyl Acetate
Concen: 17.857 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 101452

Ion	Ratio	Lower	Upper
43	100		
61	20.5	16.1	24.1
87	13.6	10.3	15.5

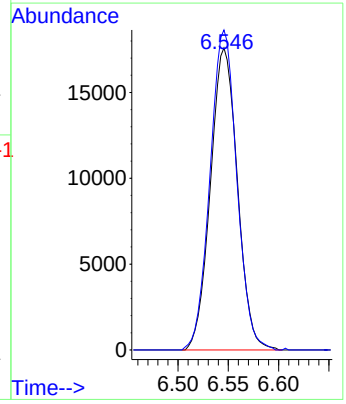




#44
Trichloroethene
Concen: 16.199 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:130 Resp: 32850

Ion	Ratio	Lower	Upper
130	100		
95	106.0	0.0	209.0



Instrument :
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ClientSampleId :
VU0927WBS02

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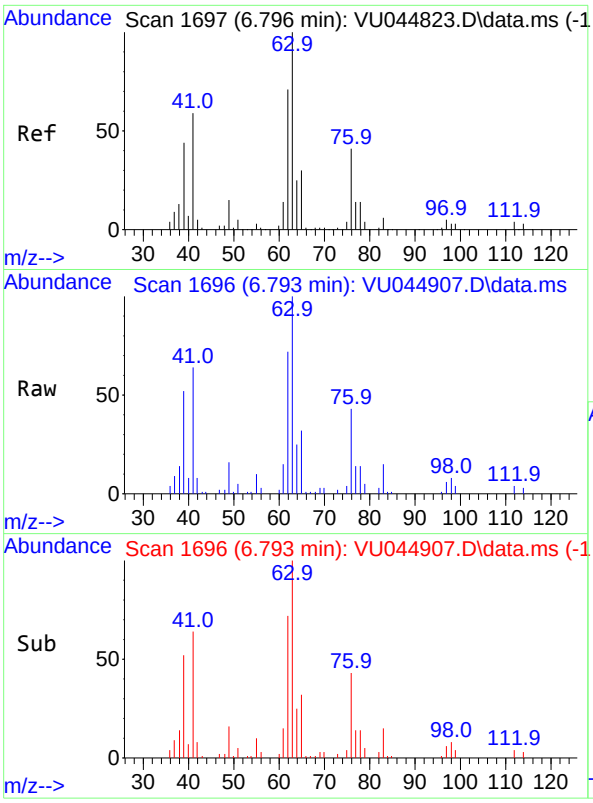
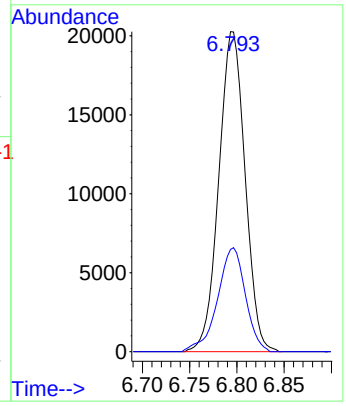
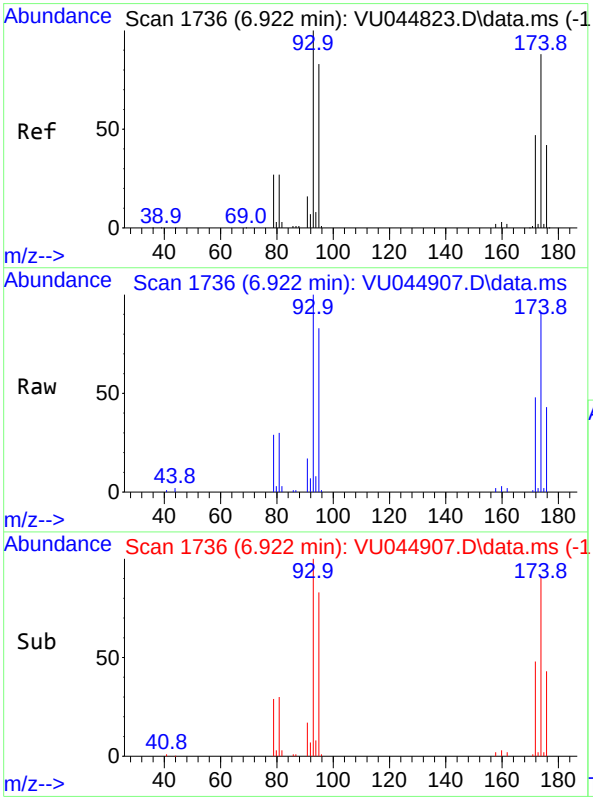


#45
1,2-Dichloropropane
Concen: 17.142 ug/l
RT: 6.793 min Scan# 1696
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 63 Resp: 39145

Ion	Ratio	Lower	Upper
63	100		
65	31.9	23.9	35.9

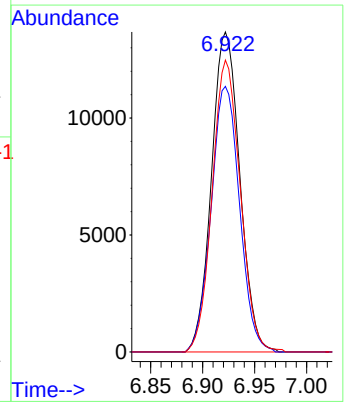




#46
Dibromomethane
Concen: 17.153 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 93 Resp: 25955

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.6	98.4
174	90.4	70.7	106.1



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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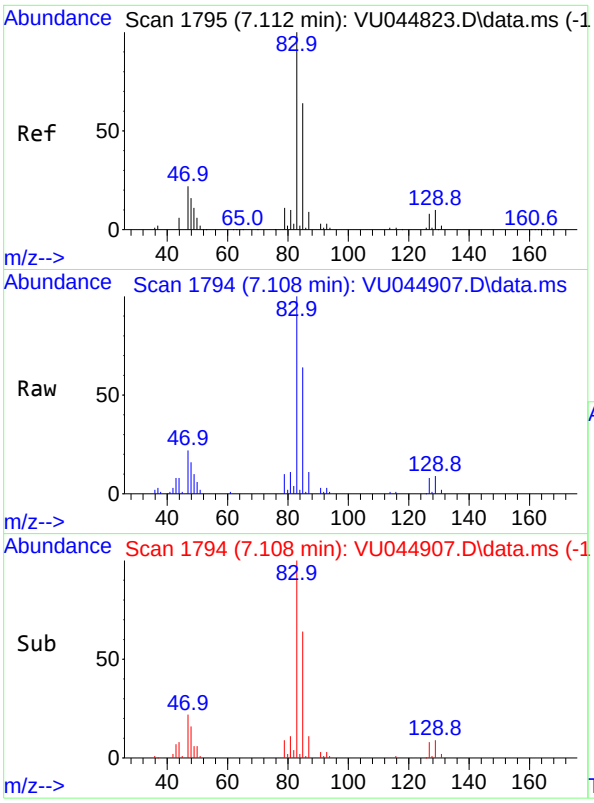
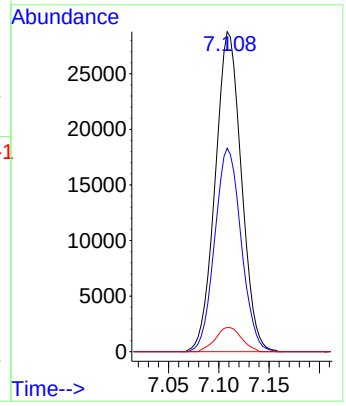
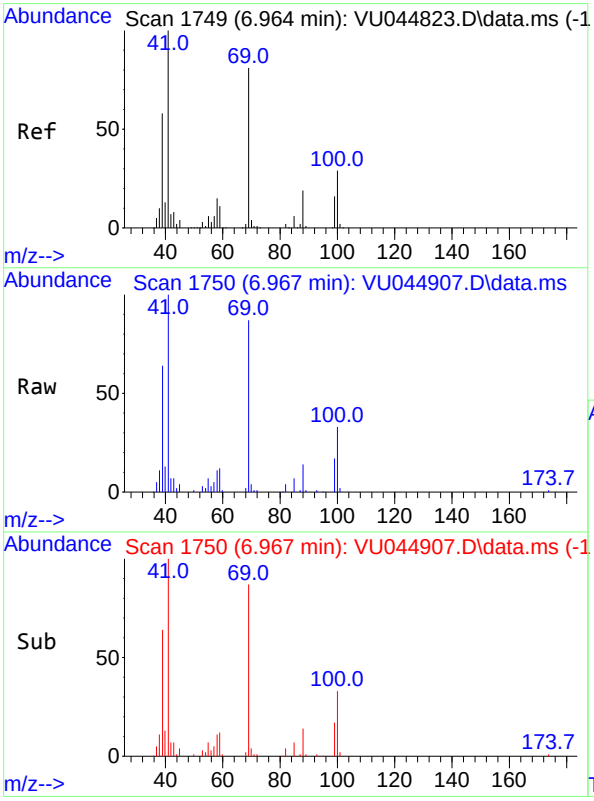


#47
Bromodichloromethane
Concen: 17.454 ug/l
RT: 7.108 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 83 Resp: 52095

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.6	77.4
127	7.6	6.2	9.4

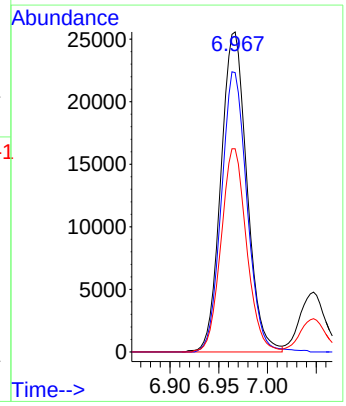




#48
Methyl methacrylate
Concen: 17.679 ug/l
RT: 6.967 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 41 Resp: 47407

Ion	Ratio	Lower	Upper
41	100		
69	86.3	65.6	98.4
39	62.4	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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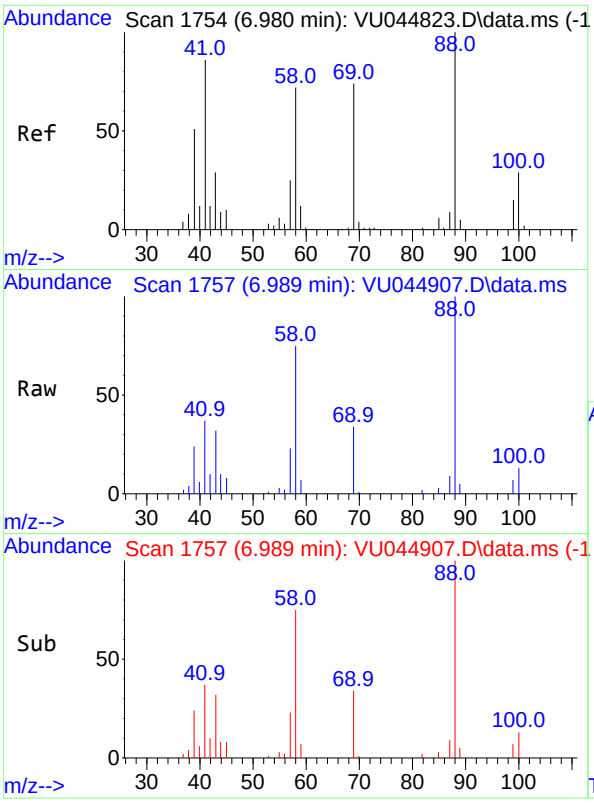
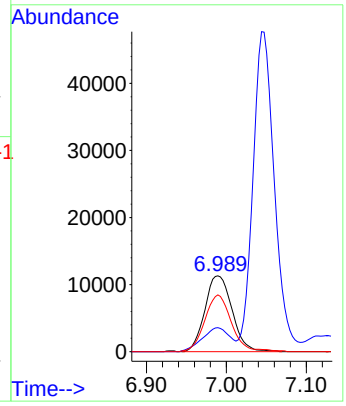
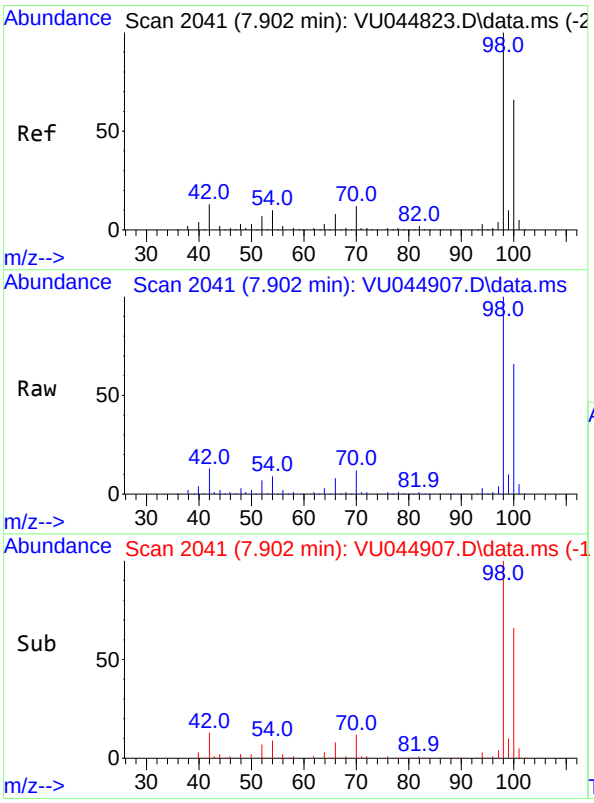


#49
1,4-Dioxane
Concen: 391.069 ug/l
RT: 6.989 min Scan# 1757
Delta R.T. 0.010 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 88 Resp: 26801

Ion	Ratio	Lower	Upper
88	100		
43	31.9	25.8	38.6
58	73.6	61.3	91.9

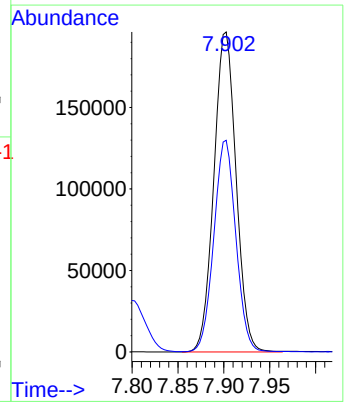




#50
Toluene-d8
Concen: 49.039 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 98 Resp: 331412

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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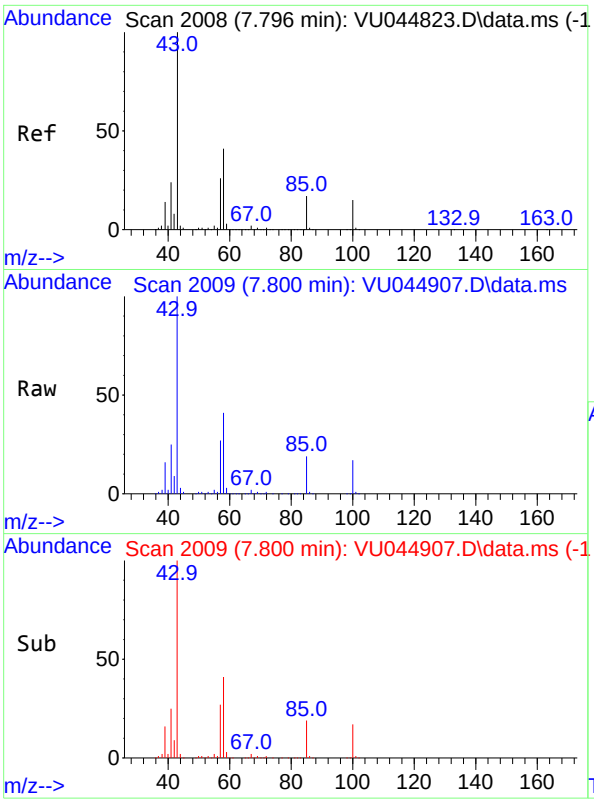
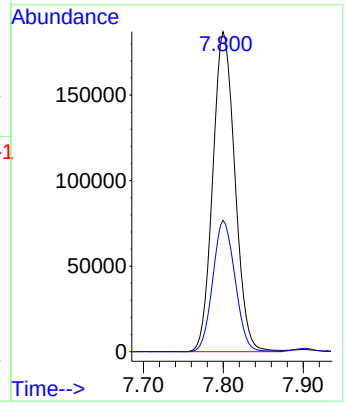
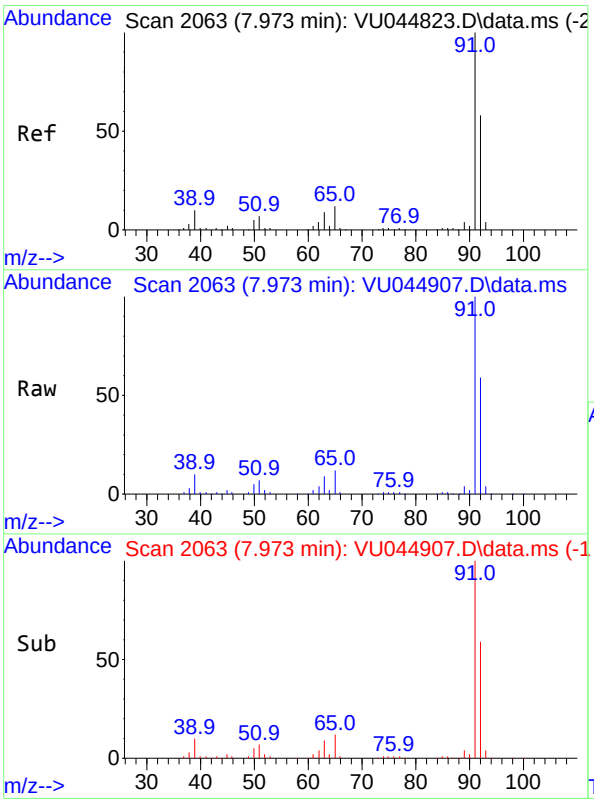


#51
4-Methyl-2-Pentanone
Concen: 88.900 ug/l
RT: 7.800 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 359958

Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.4	48.6

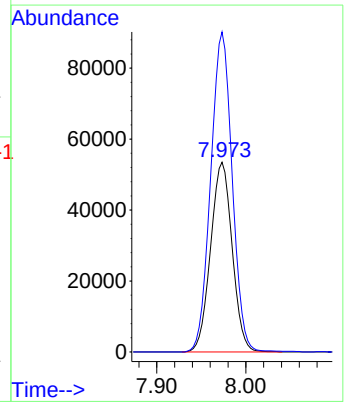




#52
Toluene
Concen: 17.825 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 92 Resp: 89921

Ion	Ratio	Lower	Upper
92	100		
91	168.1	136.9	205.3



Instrument :
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ClientSampleId :
VU0927WBS02

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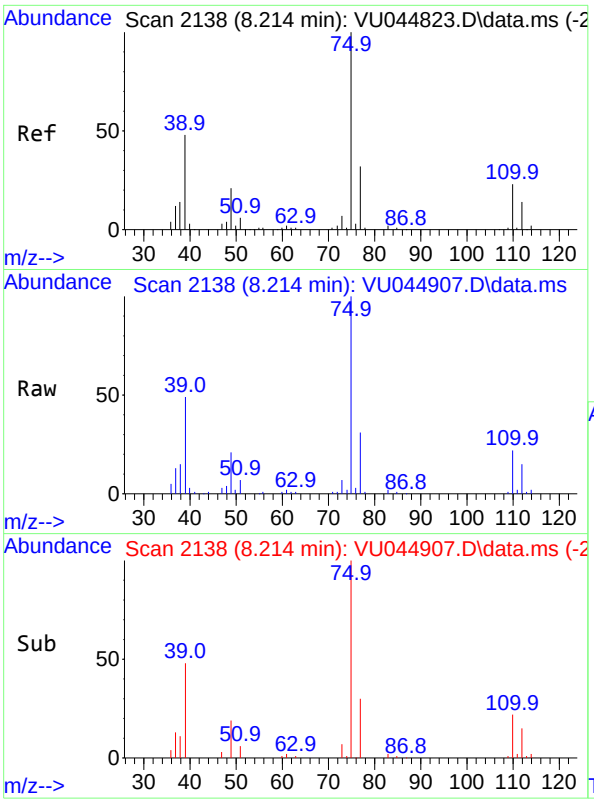
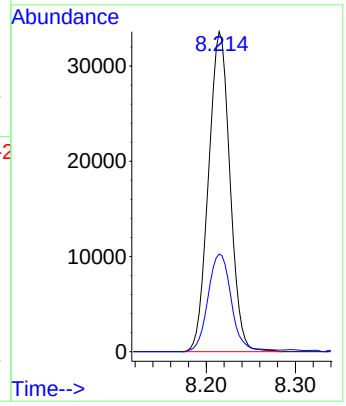
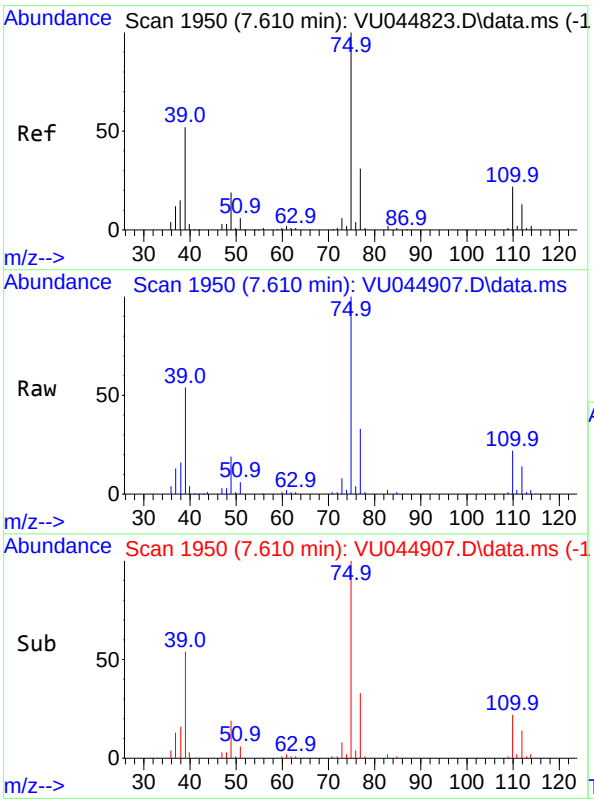


#53
t-1,3-Dichloropropene
Concen: 18.050 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 75 Resp: 56130

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.6	38.4

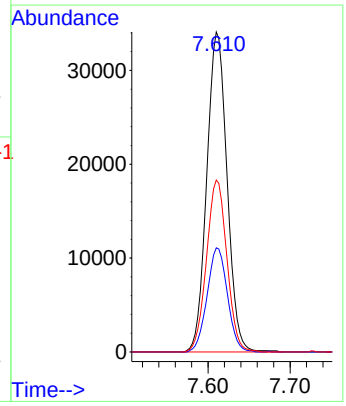




#54
cis-1,3-Dichloropropene
Concen: 17.374 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 75 Resp: 58508

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.0	37.6
39	53.8	41.4	62.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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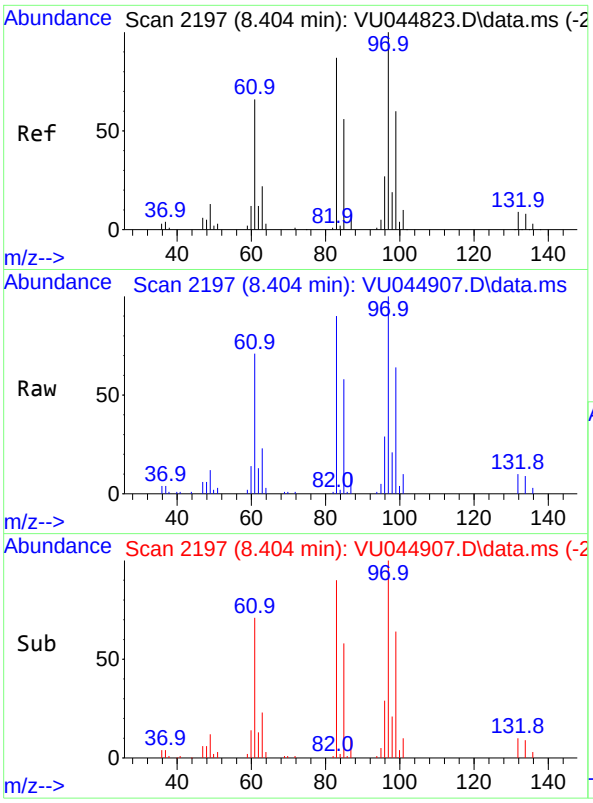
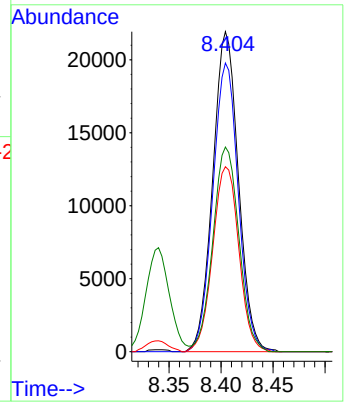
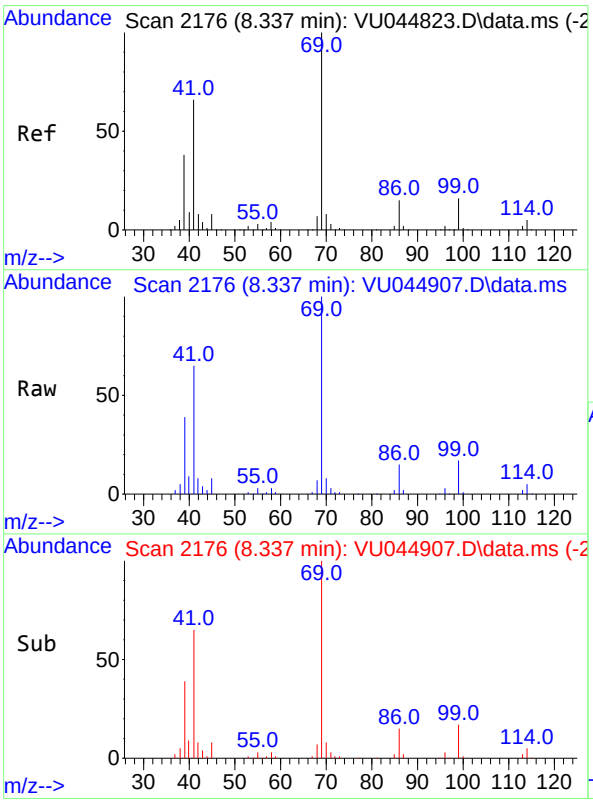


#55
1,1,2-Trichloroethane
Concen: 17.450 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 97 Resp: 37637

Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.7	104.5
85	57.8	44.8	67.2
99	63.9	49.3	73.9

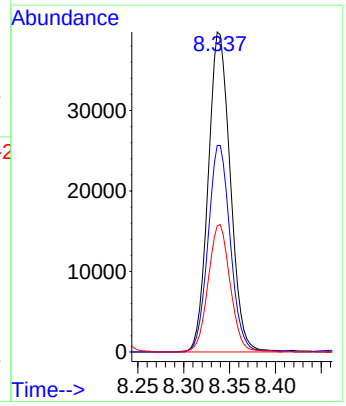




#56
Ethyl methacrylate
Concen: 18.548 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 69 Resp: 66524

Ion	Ratio	Lower	Upper
69	100		
41	65.1	53.5	80.3
39	39.8	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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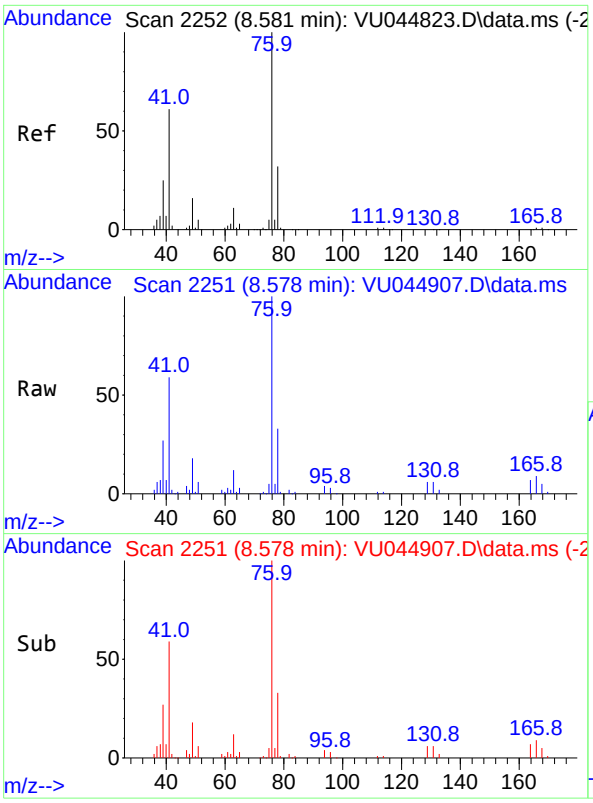
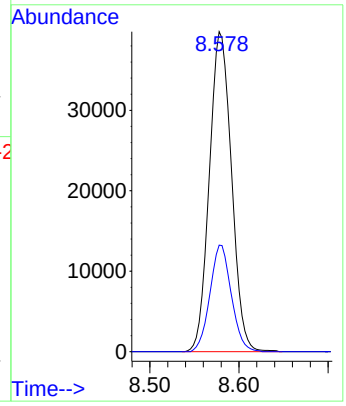
9/28/2021 1:33:42 PM

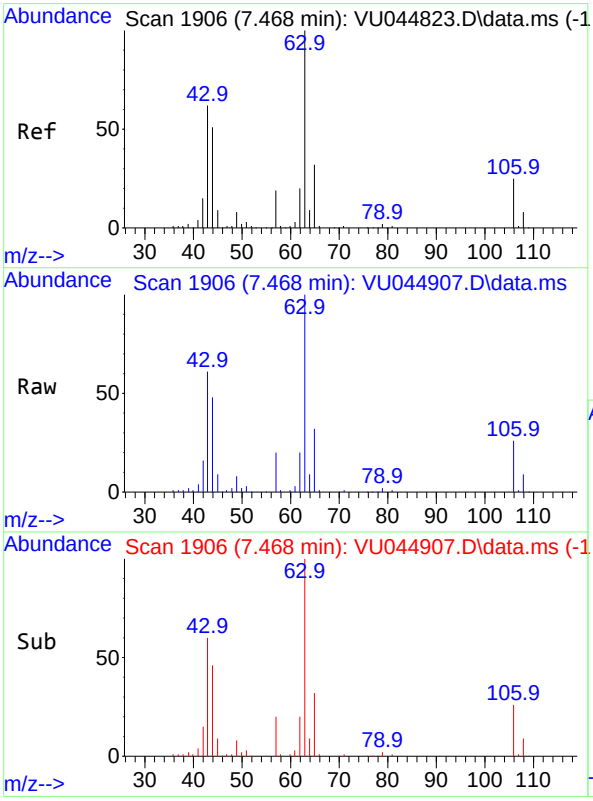


#57
1,3-Dichloropropane
Concen: 17.854 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 76 Resp: 68568

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.7	38.5

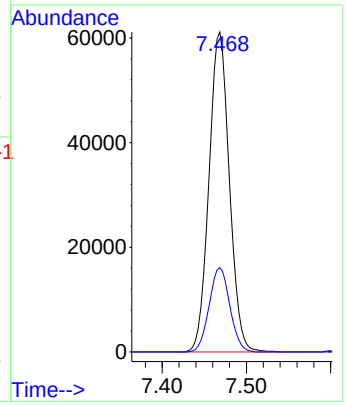




#58
2-Chloroethyl Vinyl ether
Concen: 124.062 ug/l
RT: 7.468 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 63 Resp: 102709

Ion	Ratio	Lower	Upper
63	100		
106	26.8	20.5	30.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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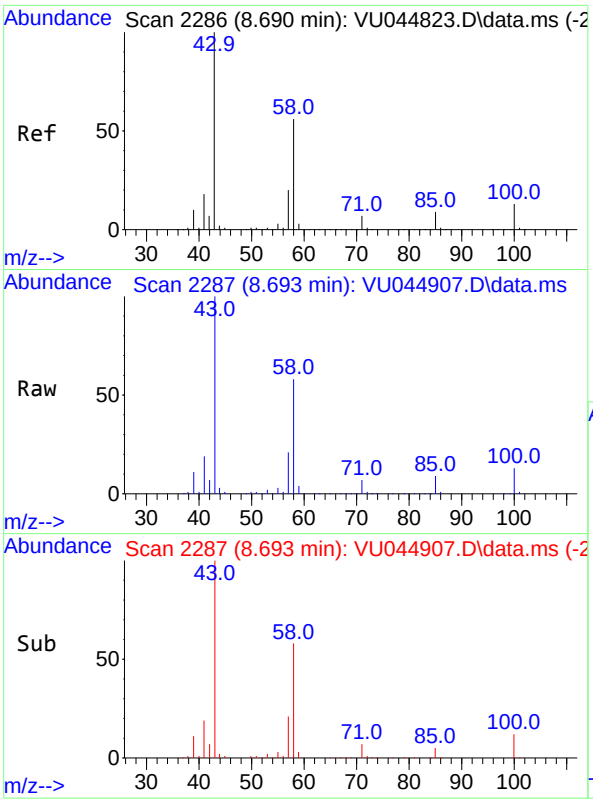
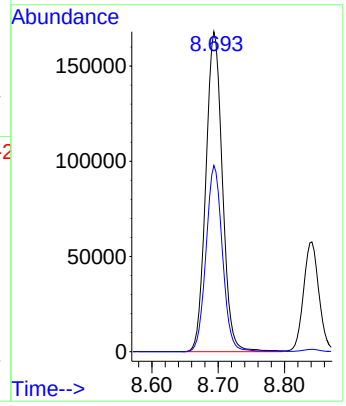
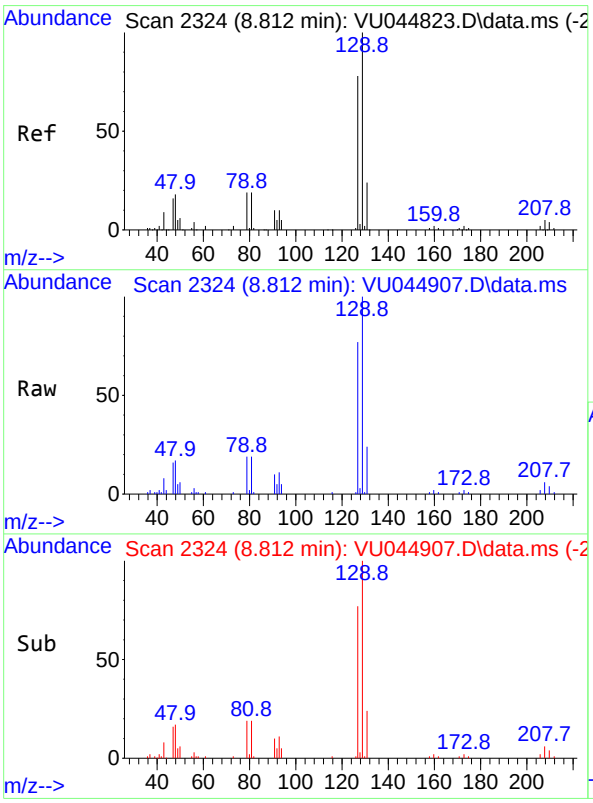


#59
2-Hexanone
Concen: 89.804 ug/l
RT: 8.693 min Scan# 2287
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 291872

Ion	Ratio	Lower	Upper
43	100		
58	57.6	28.0	84.0

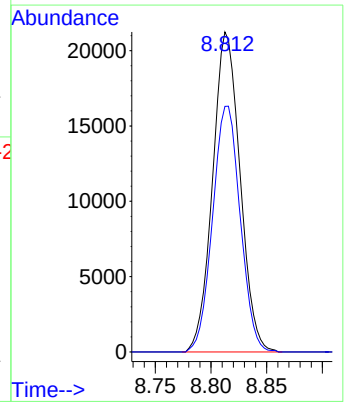




#60
Dibromochloromethane
Concen: 17.641 ug/l
RT: 8.812 min Scan# 2324
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:129 Resp: 36436

Ion	Ratio	Lower	Upper
129	100		
127	77.2	39.0	117.0



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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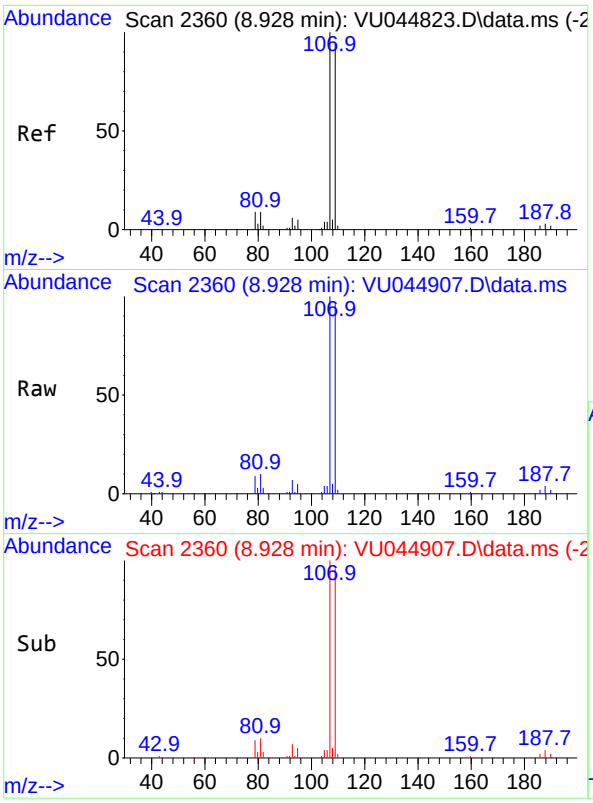
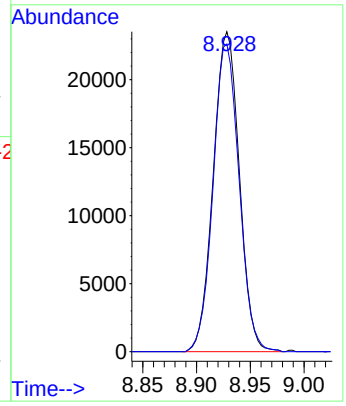
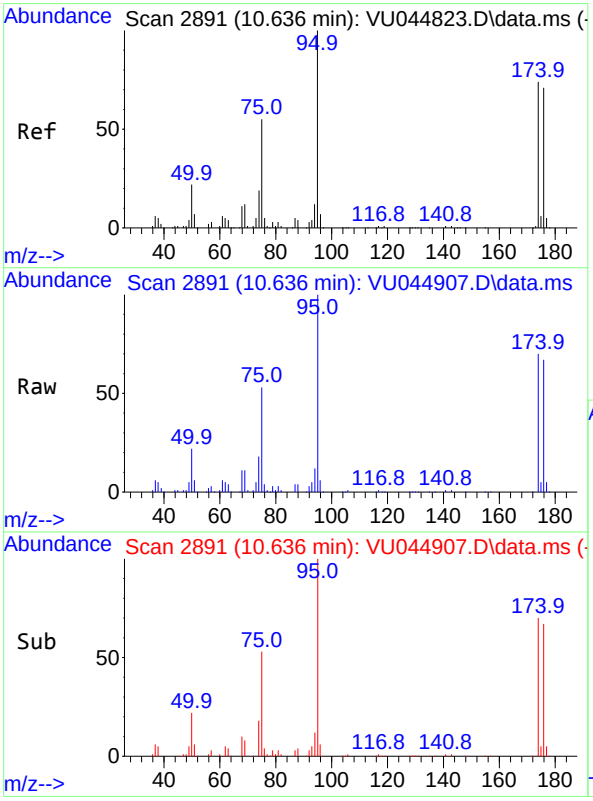


#61
1,2-Dibromoethane
Concen: 17.508 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:107 Resp: 39649

Ion	Ratio	Lower	Upper
107	100		
109	96.0	74.8	112.2

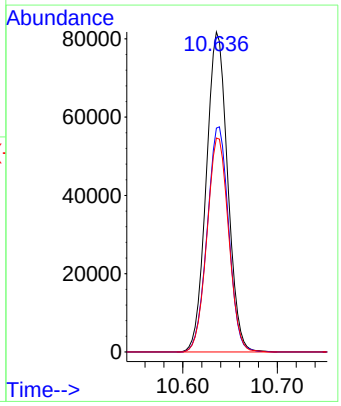




#62
4-Bromofluorobenzene
Concen: 51.051 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 95 Resp: 128144

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	146.6
176	68.0	0.0	141.2



Instrument :
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ClientSampleId :
VU0927WBS02

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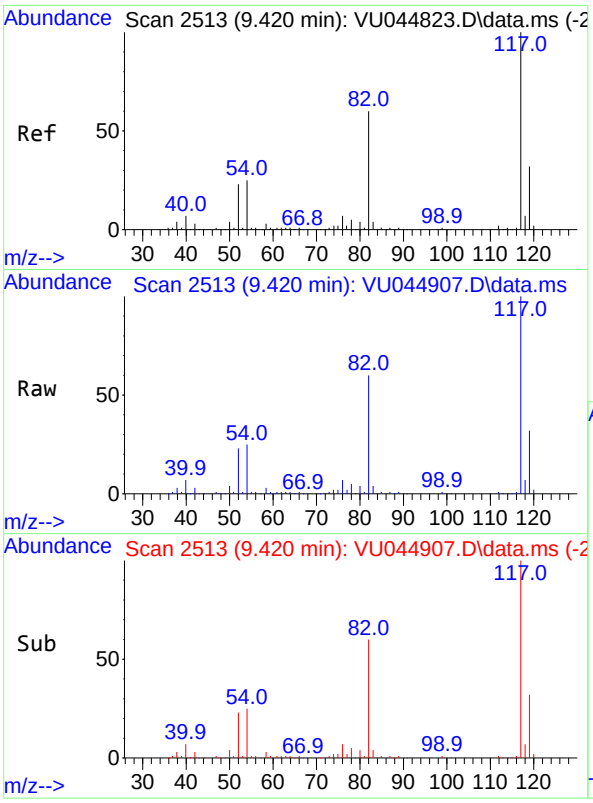
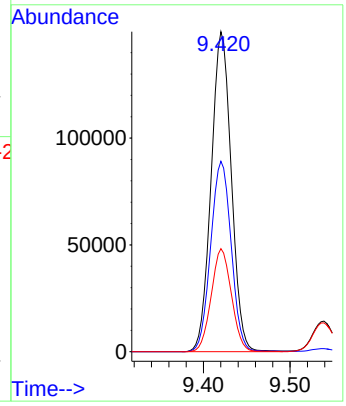
9/28/2021 1:33:42 PM

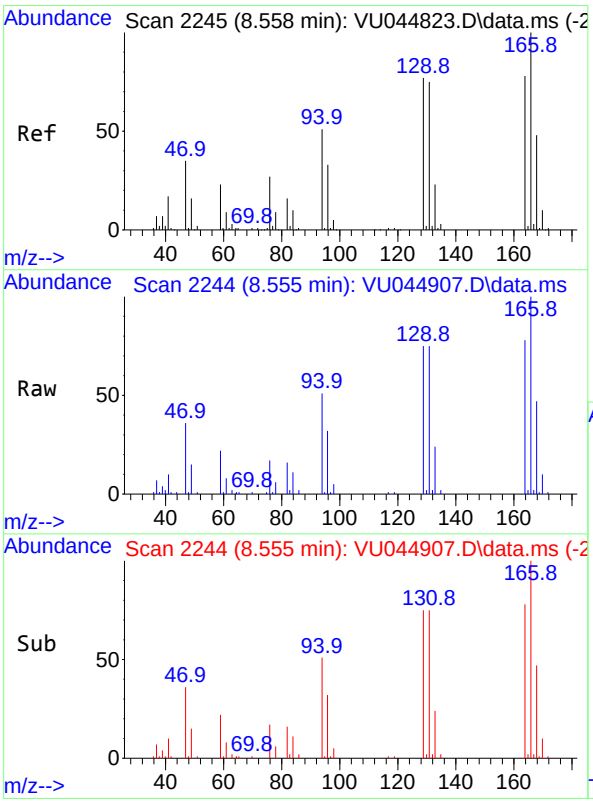


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:117 Resp: 242161

Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.8	71.8
119	32.2	25.8	38.6

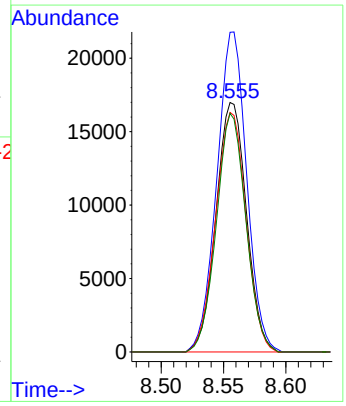




#64
Tetrachloroethene
Concen: 17.603 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:164 Resp: 28894

Ion	Ratio	Lower	Upper
164	100		
166	128.2	102.8	154.2
129	96.1	79.4	119.2
131	95.6	77.4	116.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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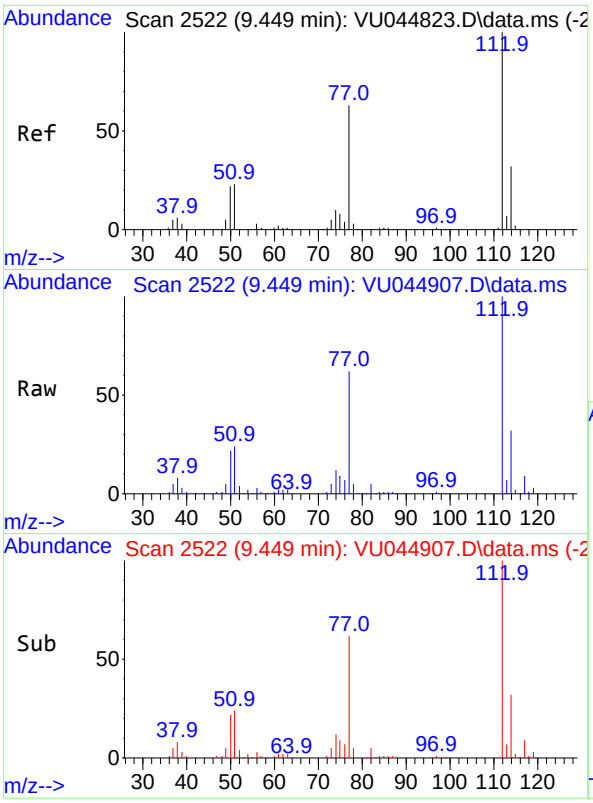
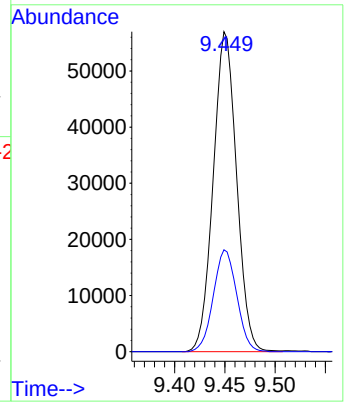
9/28/2021 1:33:42 PM

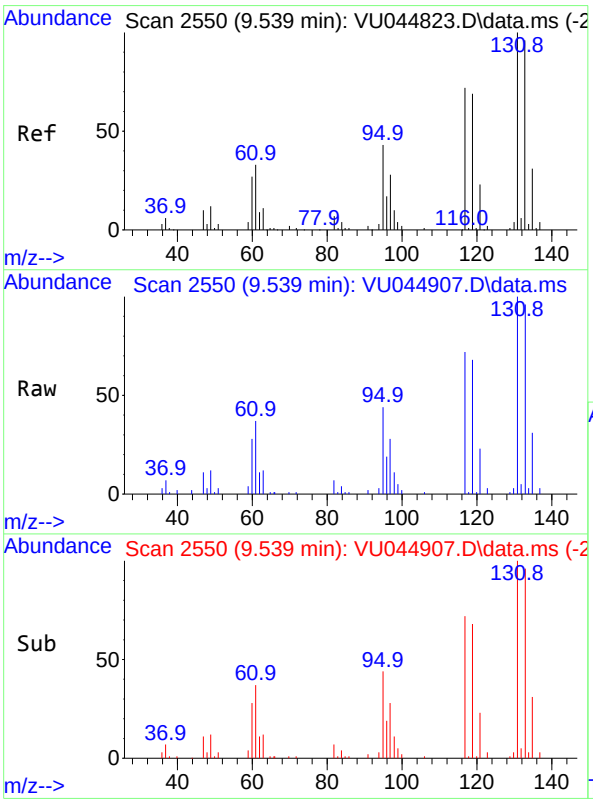


#65
Chlorobenzene
Concen: 18.316 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:112 Resp: 92077

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.9	38.9

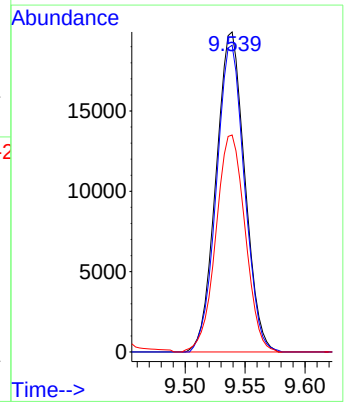




#66
1,1,1,2-Tetrachloroethane
Concen: 18.474 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:131 Resp: 33126

Ion	Ratio	Lower	Upper
131	100		
133	93.7	48.1	144.3
119	69.1	34.1	102.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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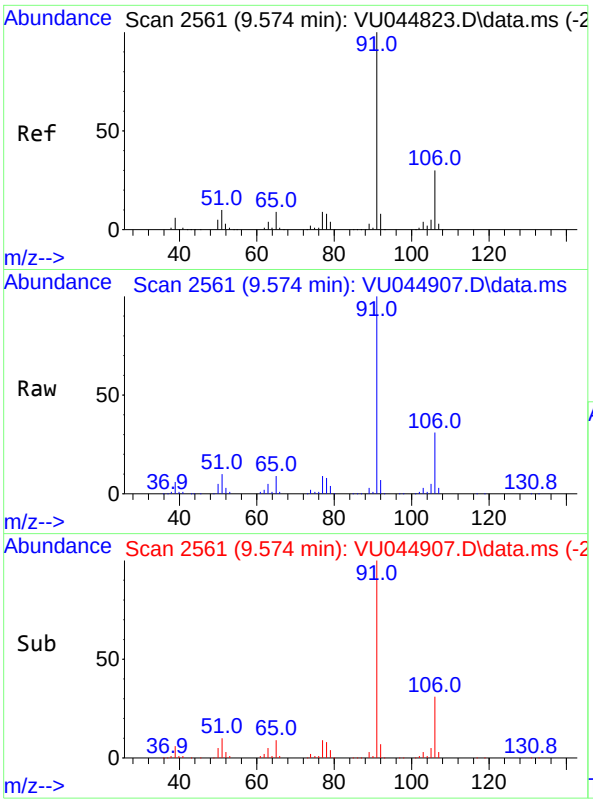
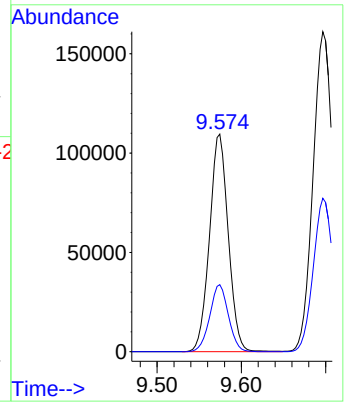
9/28/2021 1:33:42 PM

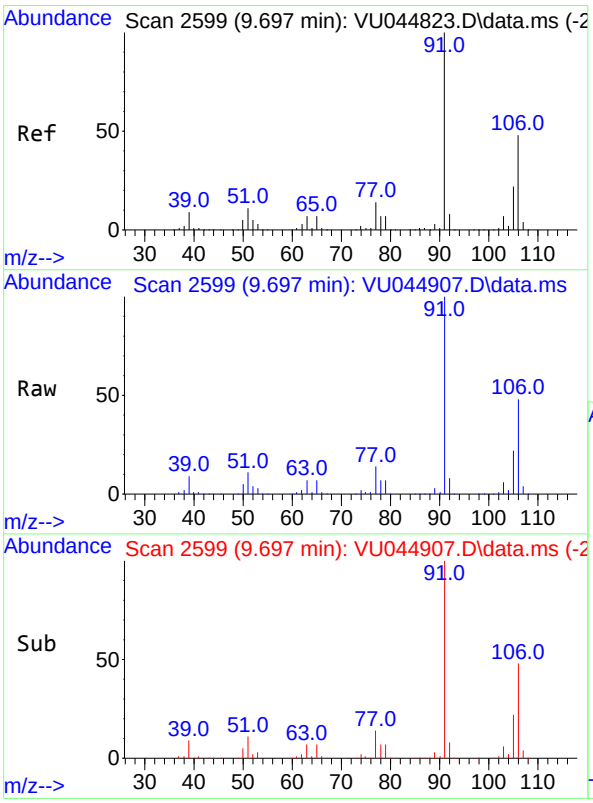


#67
Ethyl Benzene
Concen: 18.910 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 91 Resp: 169674

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.3	36.5

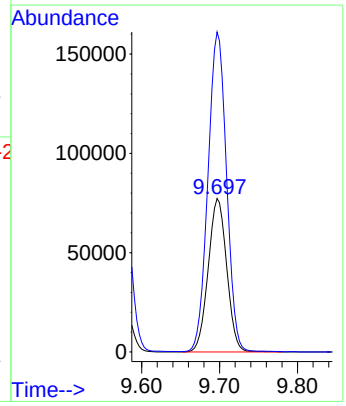




#68
m/p-Xylenes
Concen: 37.207 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:106 Resp: 127688

Ion	Ratio	Lower	Upper
106	100		
91	208.7	164.2	246.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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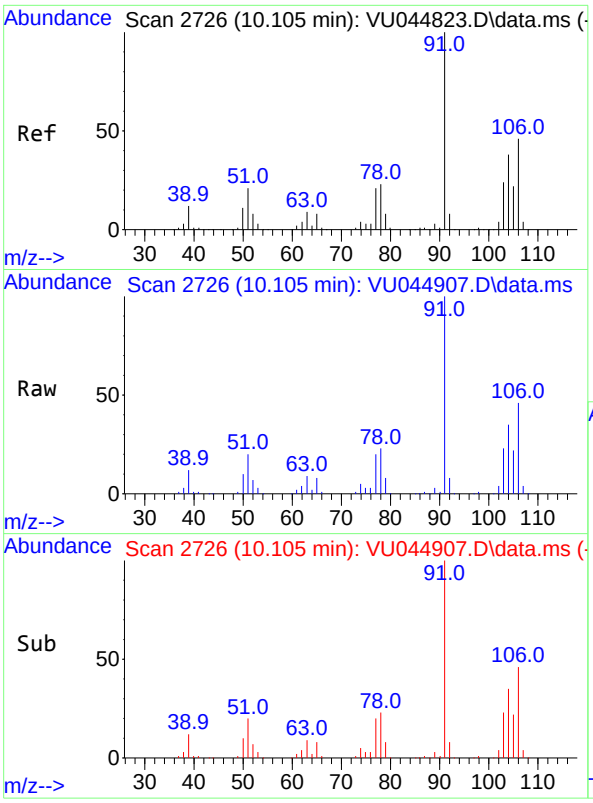
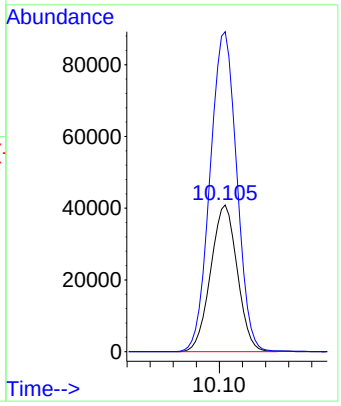
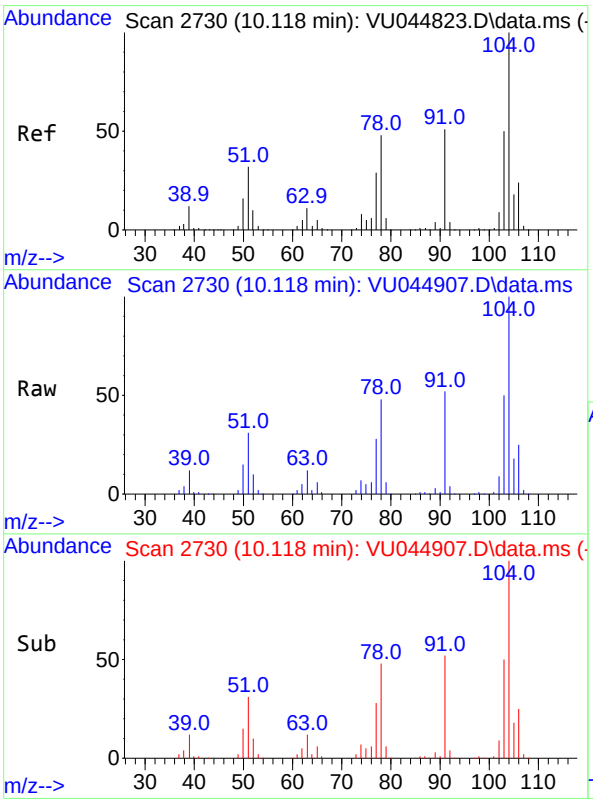


#69
o-Xylene
Concen: 19.696 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:106 Resp: 65362

Ion	Ratio	Lower	Upper
106	100		
91	219.2	108.9	326.7

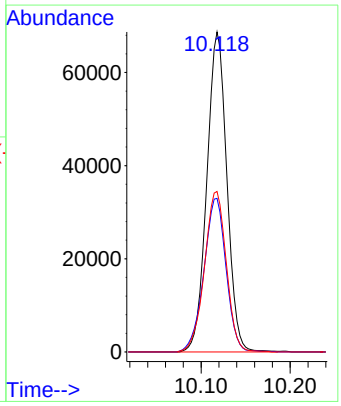




#70
Styrene
Concen: 17.957 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:104 Resp: 107273

Ion	Ratio	Lower	Upper
104	100		
78	53.2	41.4	62.0
103	54.6	43.5	65.3



Instrument :
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ClientSampleId :
VU0927WBS02

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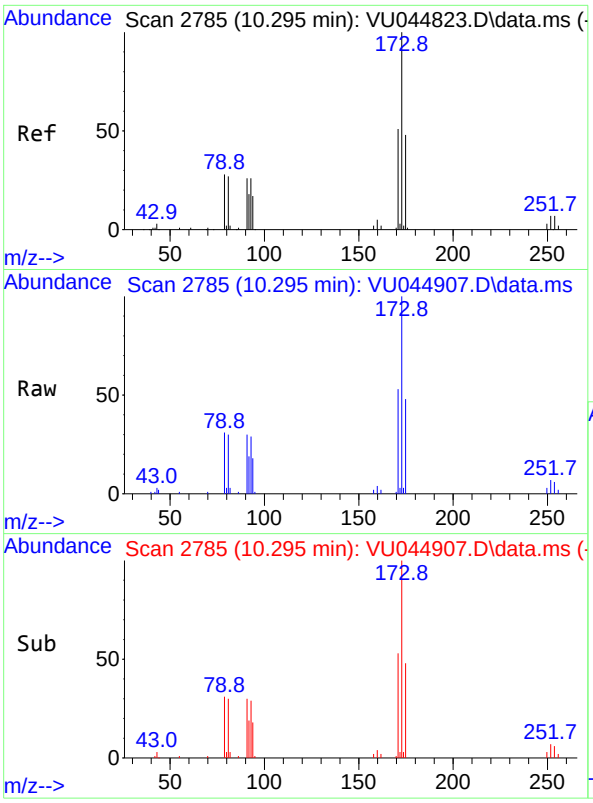
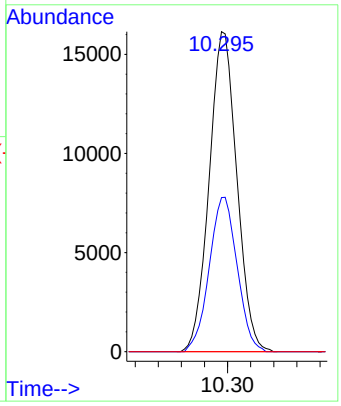
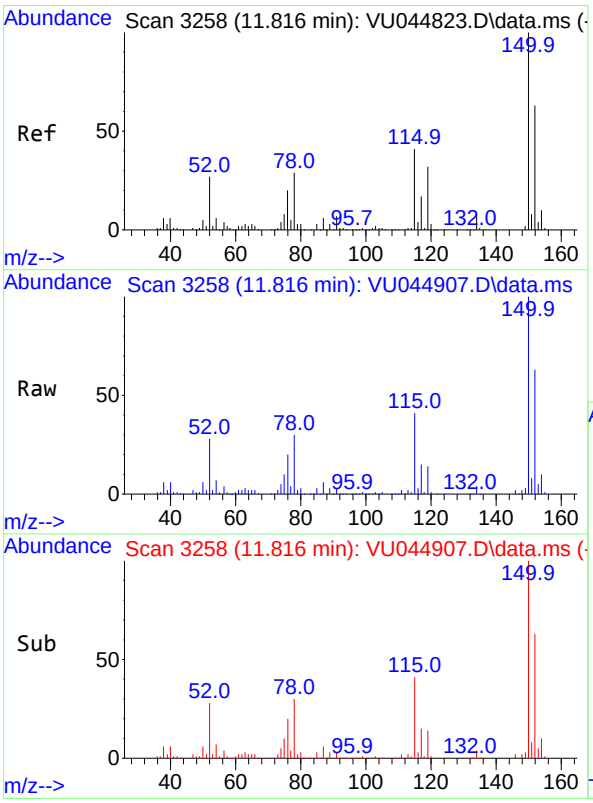


#71
Bromoform
Concen: 18.081 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:173 Resp: 26825

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	73.0
254	0.0	0.0	0.0

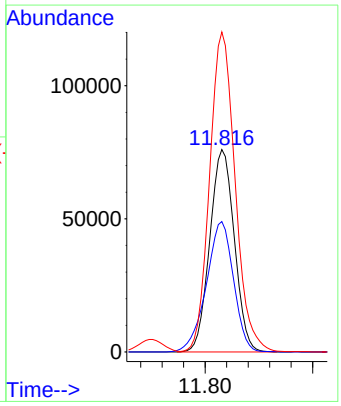




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:152 Resp: 120641

Ion	Ratio	Lower	Upper
152	100		
115	71.3	43.5	130.7
150	163.7	0.0	350.0



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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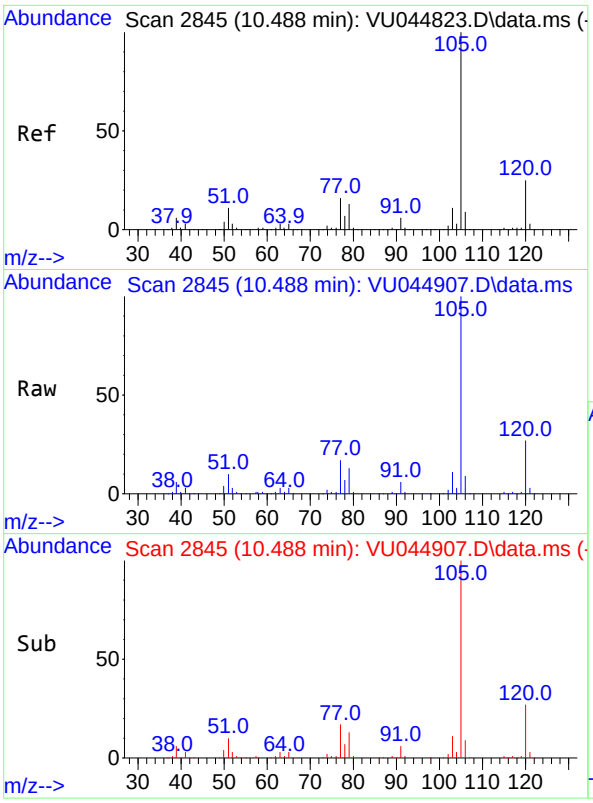
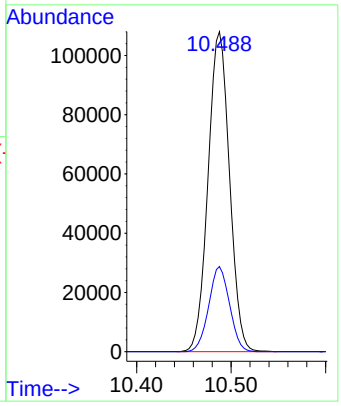
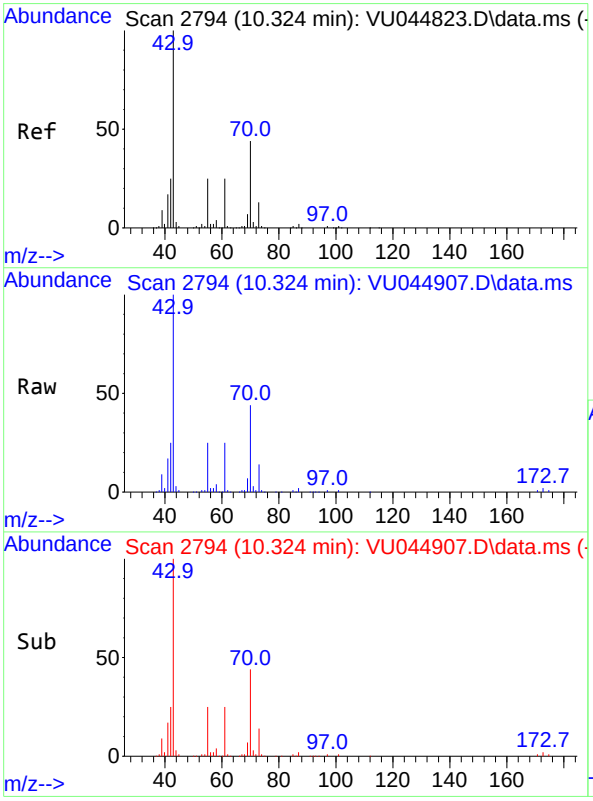


#73
Isopropylbenzene
Concen: 19.834 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:105 Resp: 169828

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.3

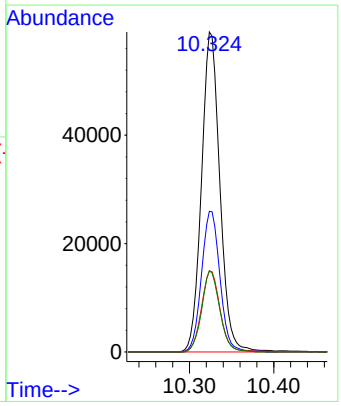




#74
N-amyl acetate
Concen: 20.574 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 43 Resp: 89788

Ion	Ratio	Lower	Upper
43	100		
70	44.0	35.1	52.7
55	25.8	20.5	30.7
61	24.7	19.6	29.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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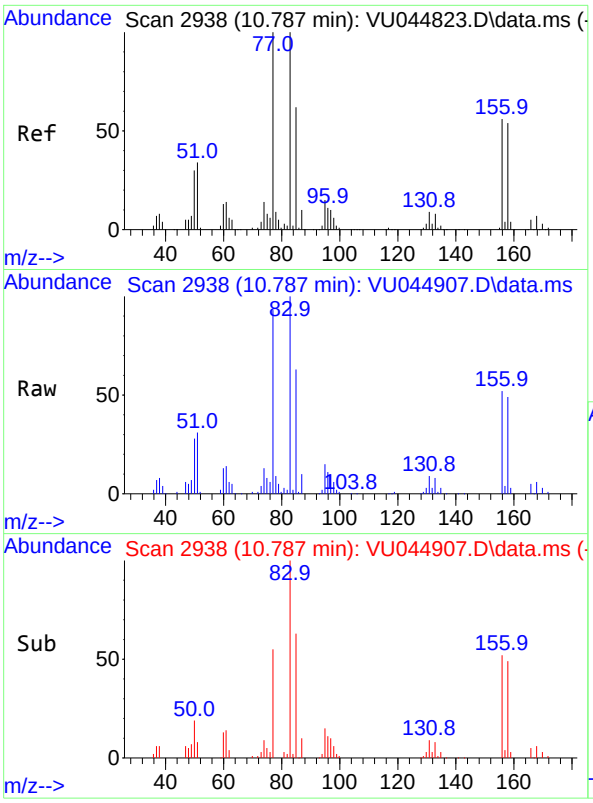
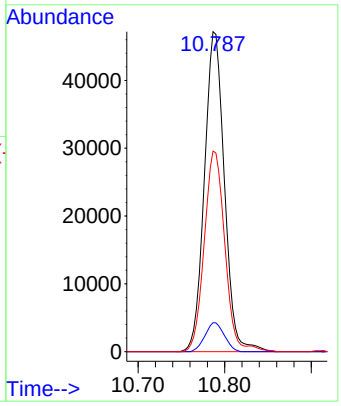
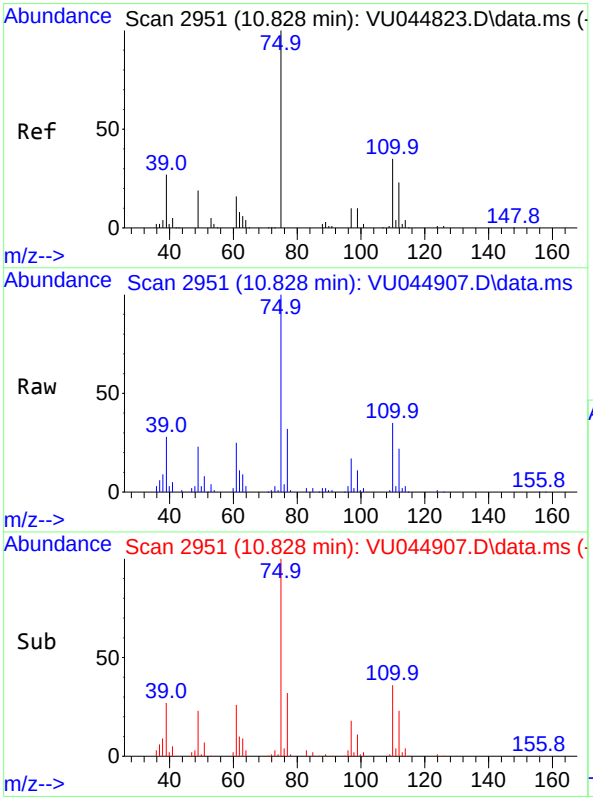


#75
1,1,2,2-Tetrachloroethane
Concen: 19.401 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 83 Resp: 75682

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.3	13.1
85	64.6	31.9	95.5

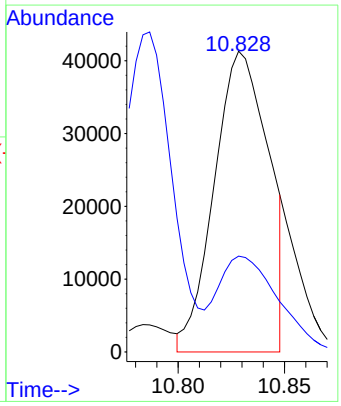




#76
1,2,3-Trichloropropane
Concen: 19.946 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 75 Resp: 72866

Ion	Ratio	Lower	Upper
75	100		
77	35.7	17.9	53.7



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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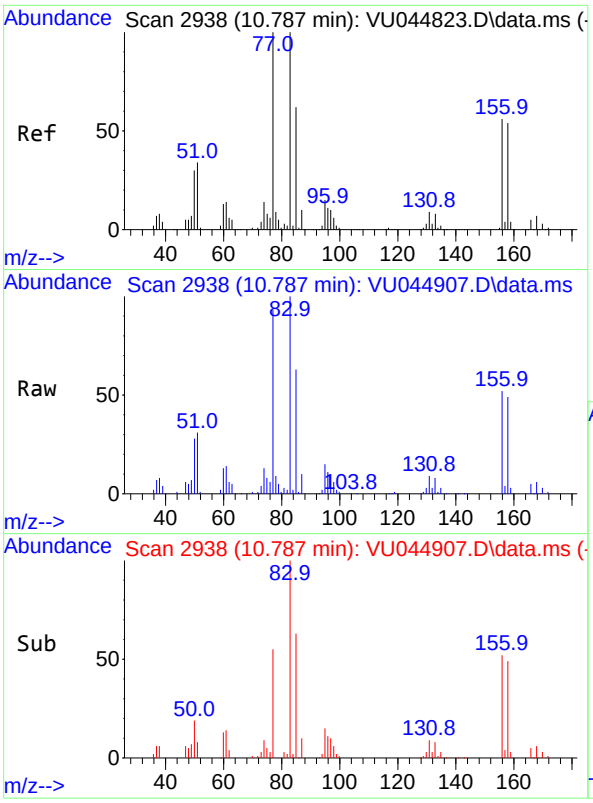
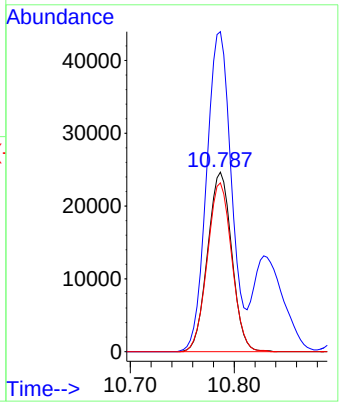
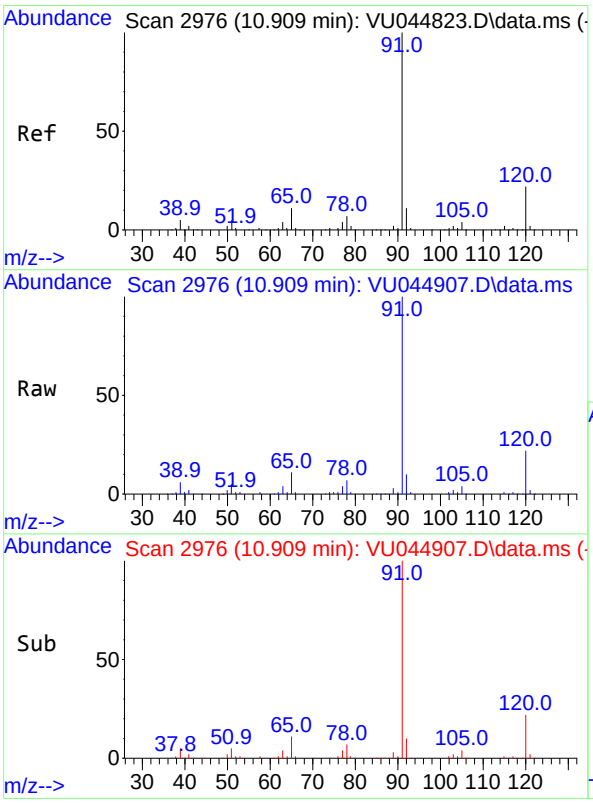


#77
Bromobenzene
Concen: 19.481 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:156 Resp: 39852

Ion	Ratio	Lower	Upper
156	100		
77	183.3	91.1	273.4
158	95.2	48.2	144.6

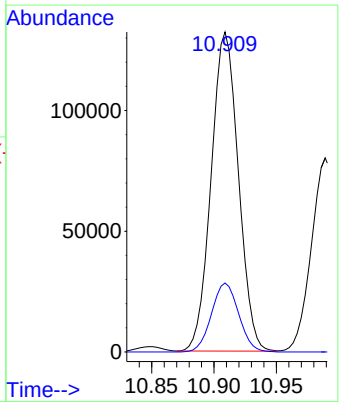




#78
n-propylbenzene
Concen: 19.367 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 91 Resp: 200937

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.8	32.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

Manual Integrations APPROVED
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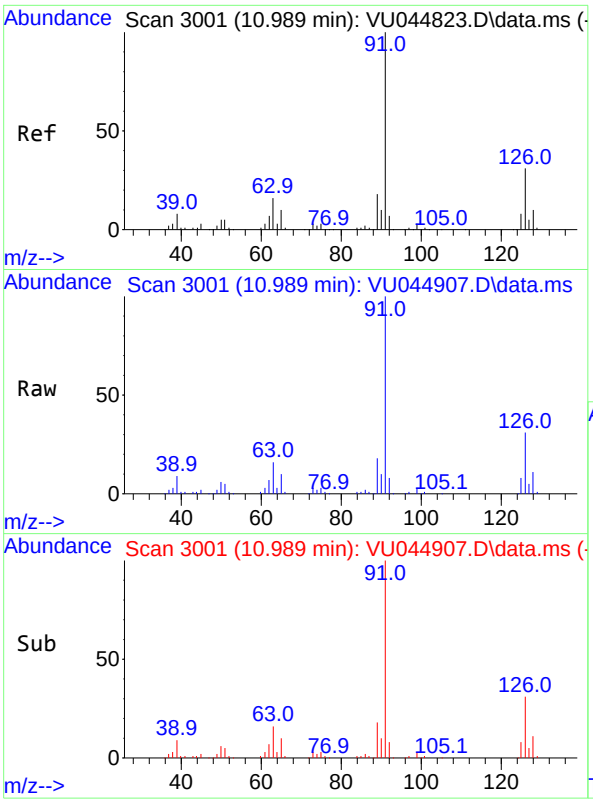
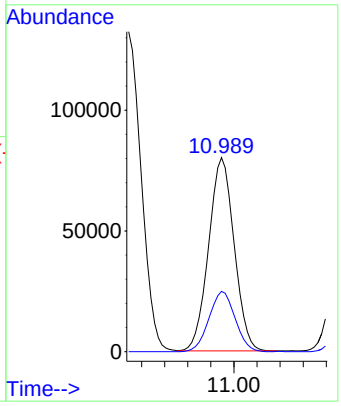
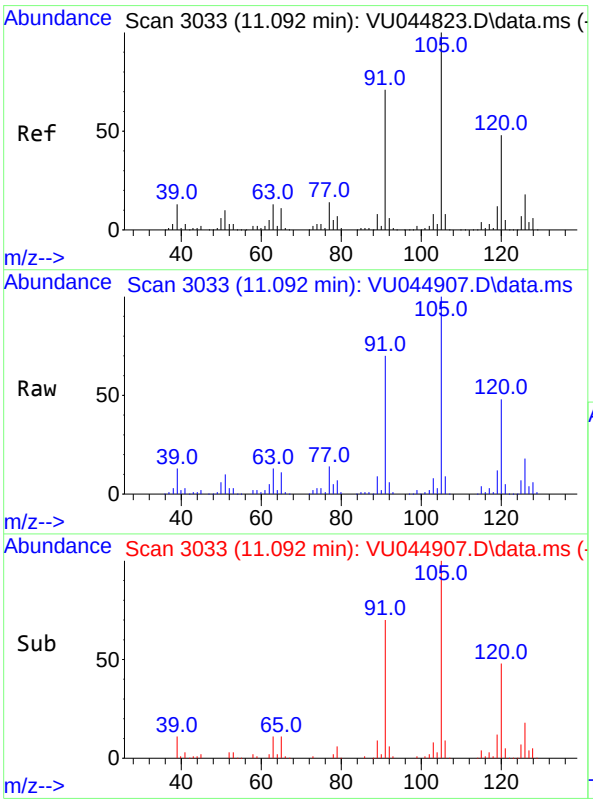


#79
2-Chlorotoluene
Concen: 19.434 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 91 Resp: 122890

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.7	47.0

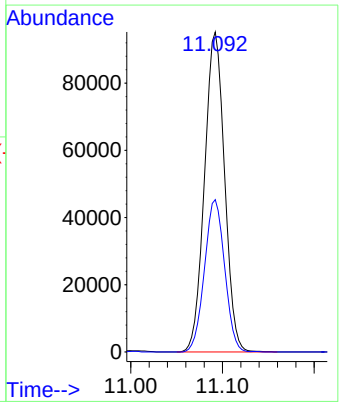




#80
1,3,5-Trimethylbenzene
Concen: 19.934 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:105 Resp: 144581

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.1	72.2



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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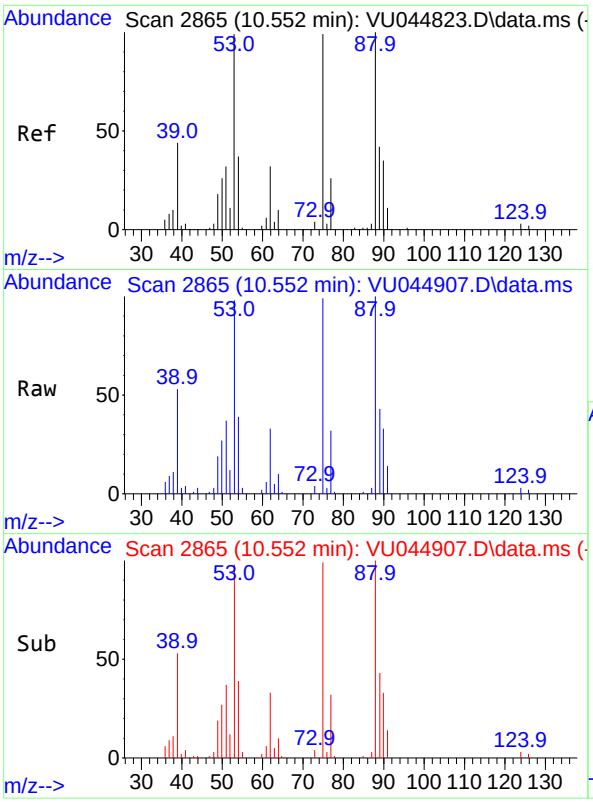
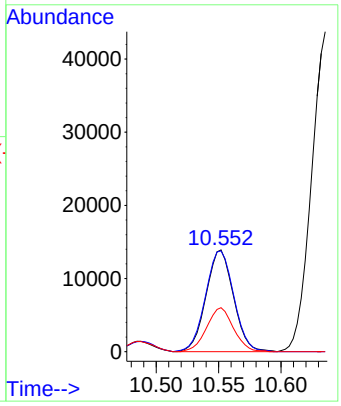
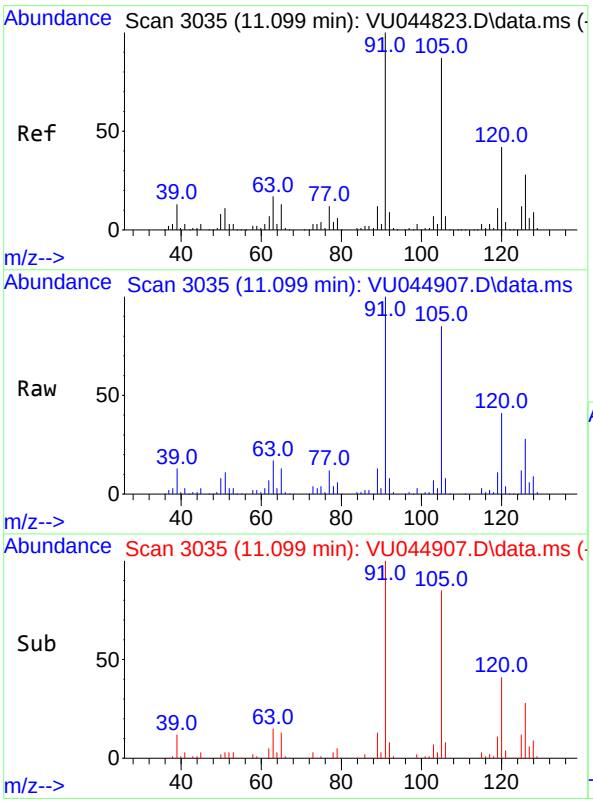


#81
trans-1,4-Dichloro-2-butene
Concen: 18.865 ug/l
RT: 10.552 min Scan# 2865
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 75 Resp: 21274

Ion	Ratio	Lower	Upper
75	100		
53	102.5	82.0	123.0
89	42.5	34.2	51.4

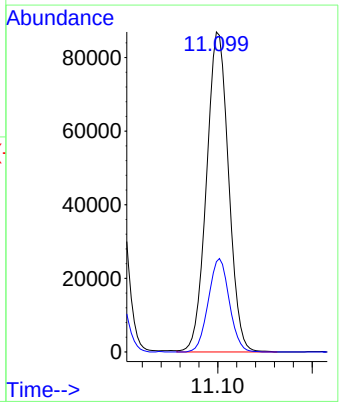




#82
4-Chlorotoluene
Concen: 19.592 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 91 Resp: 141040

Ion	Ratio	Lower	Upper
91	100		
126	27.6	13.8	41.4



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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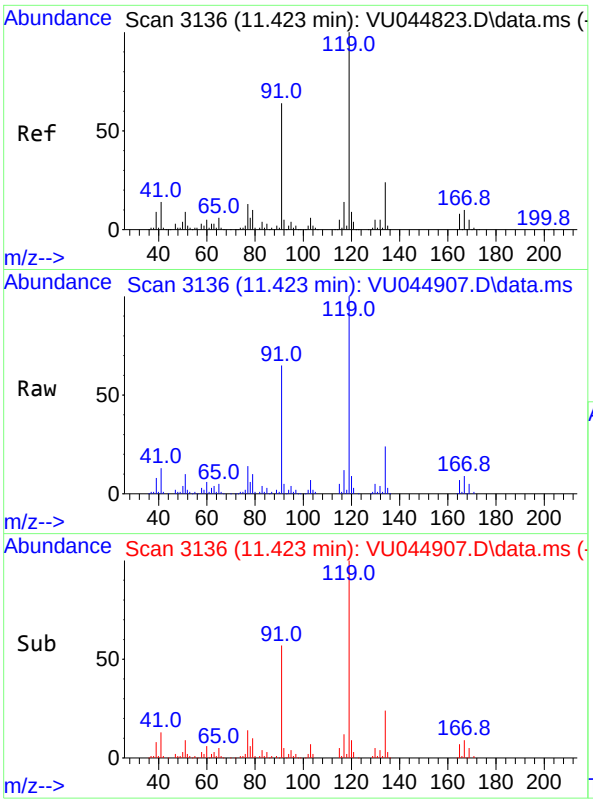
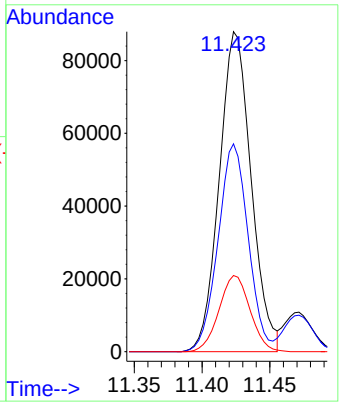
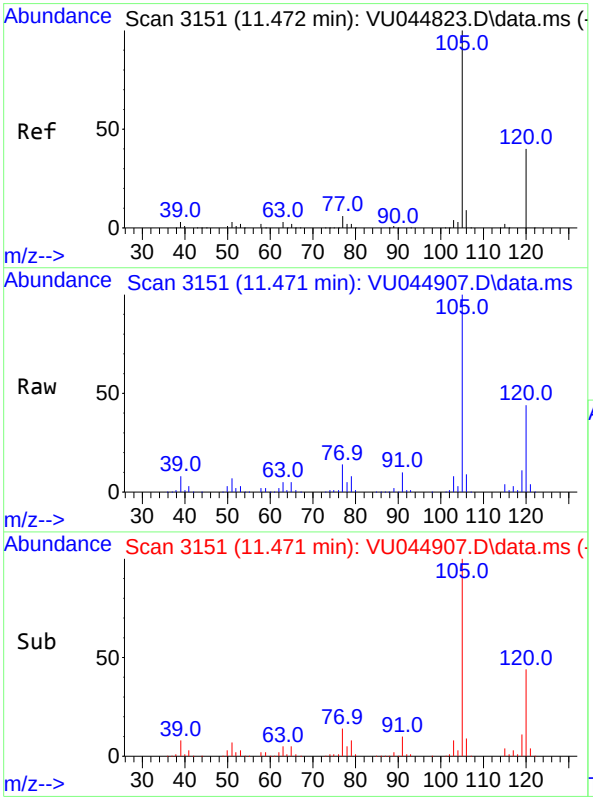


#83
tert-Butylbenzene
Concen: 20.545 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:119 Resp: 143747

Ion	Ratio	Lower	Upper
119	100		
91	61.6	30.4	91.2
134	23.2	11.5	34.5

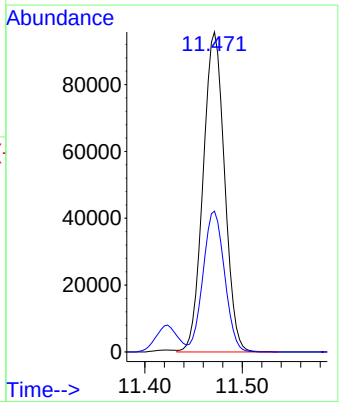




#84
1,2,4-Trimethylbenzene
Concen: 20.496 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:105 Resp: 146552

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

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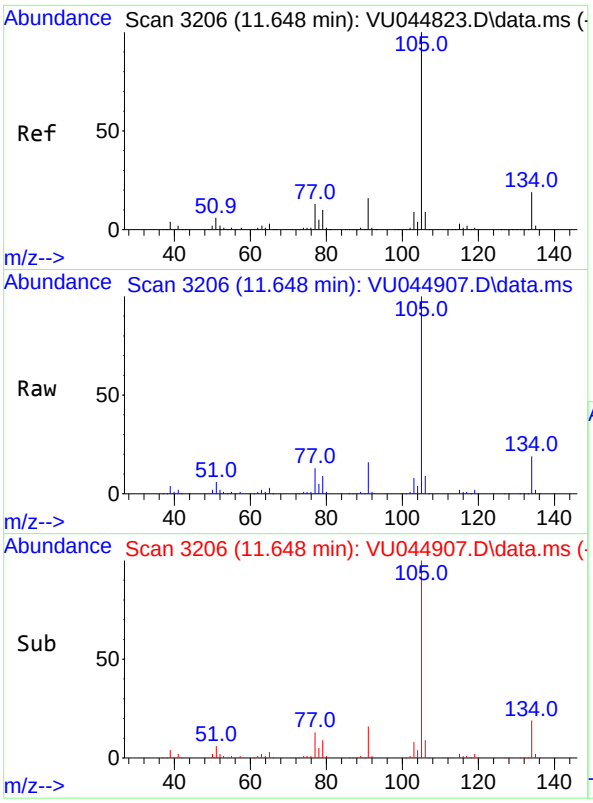
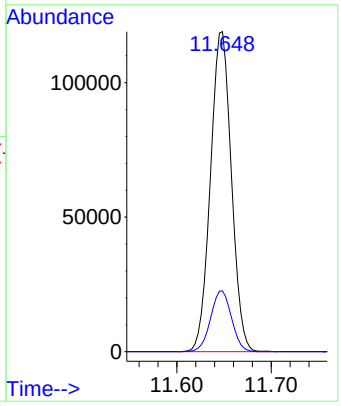
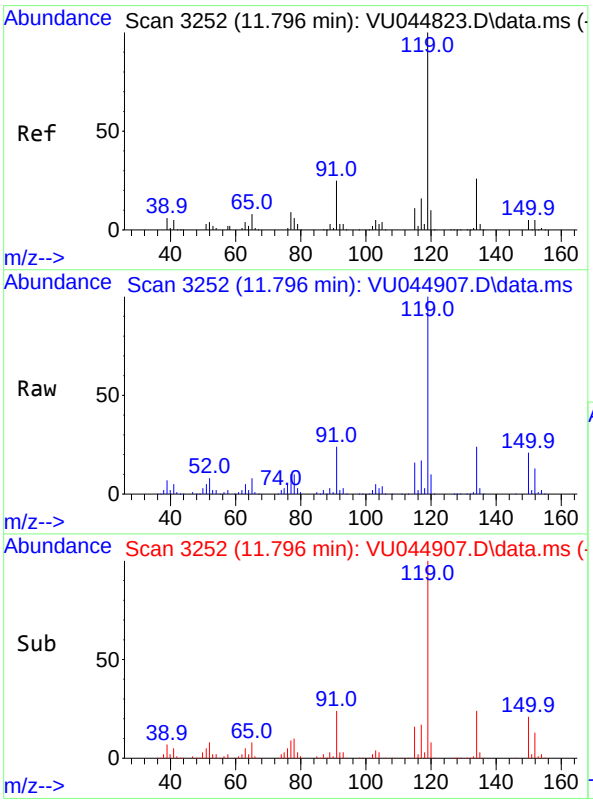


#85
sec-Butylbenzene
Concen: 20.223 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:105 Resp: 182968

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.3	28.0

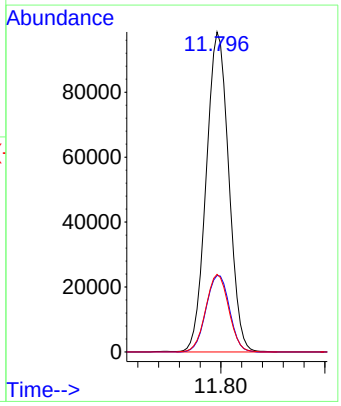




#86
p-Isopropyltoluene
Concen: 20.136 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

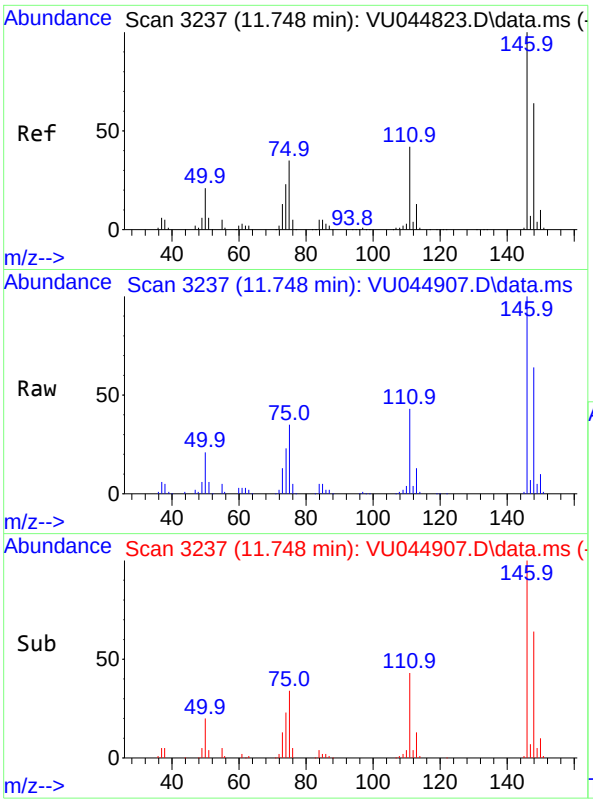
Tgt Ion:119 Resp: 148211

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.8	38.3
91	24.8	12.2	36.6



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

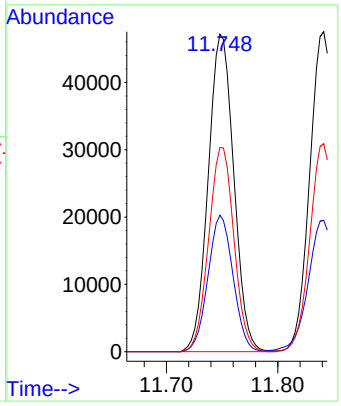
Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:42 PM

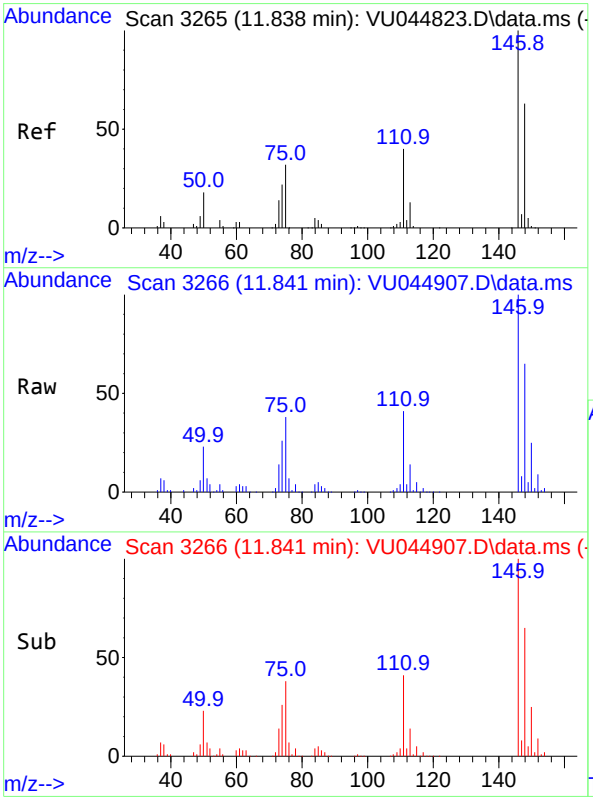


#87
1,3-Dichlorobenzene
Concen: 18.989 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:146 Resp: 75382

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.2	63.6
148	63.7	32.1	96.3

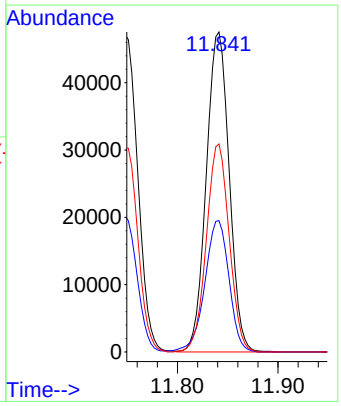




#88
1,4-Dichlorobenzene
Concen: 18.363 ug/l
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

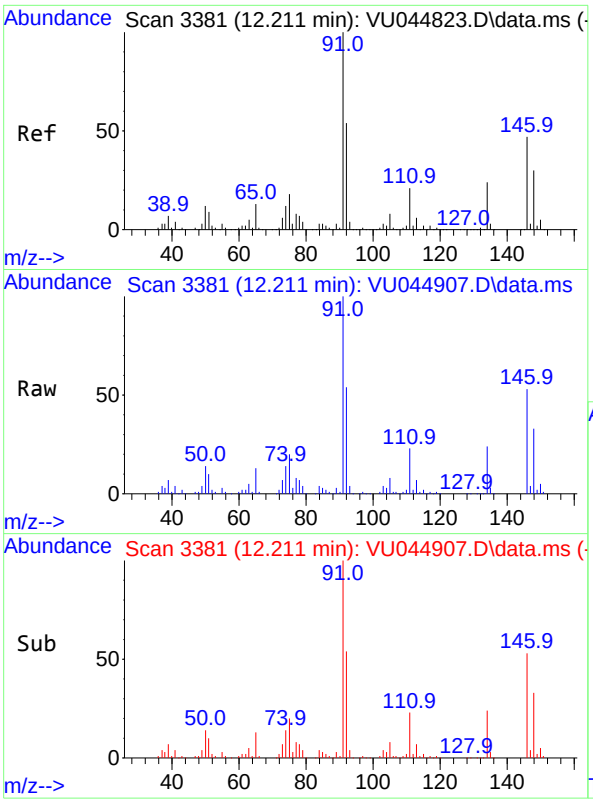
Tgt Ion:146 Resp: 75387

Ion	Ratio	Lower	Upper
146	100		
111	43.3	20.3	61.0
148	64.8	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

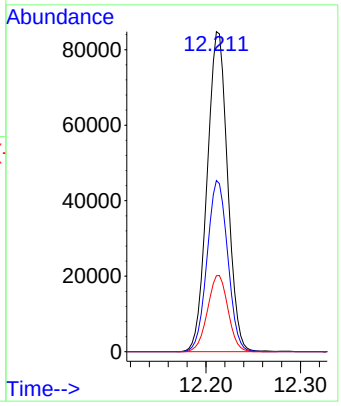
Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:42 PM

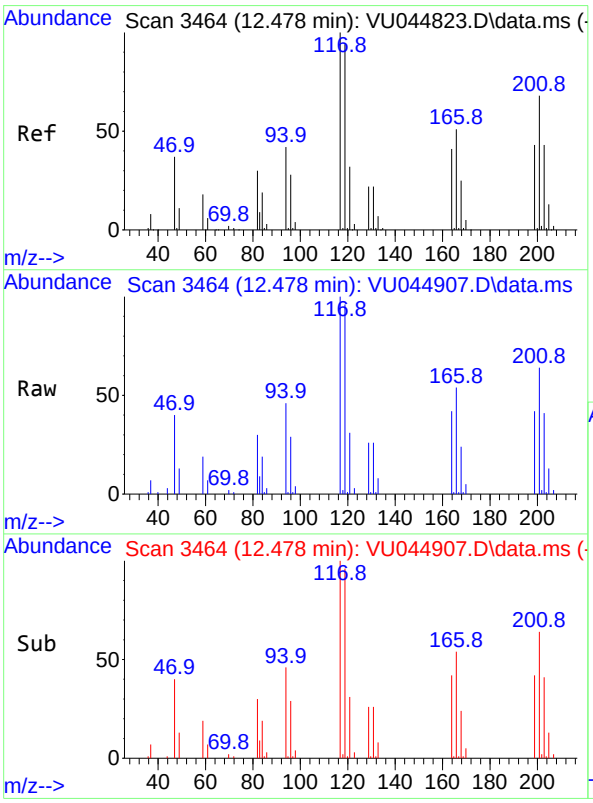


#89
n-Butylbenzene
Concen: 17.644 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion: 91 Resp: 127350

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.8	80.4
134	23.8	11.8	35.4

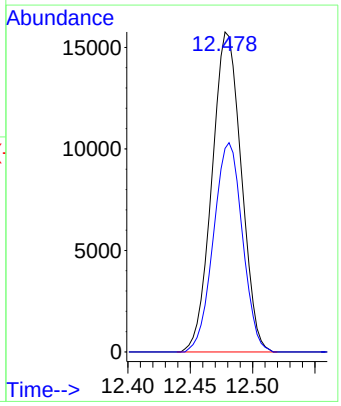




#90
Hexachloroethane
Concen: 19.478 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

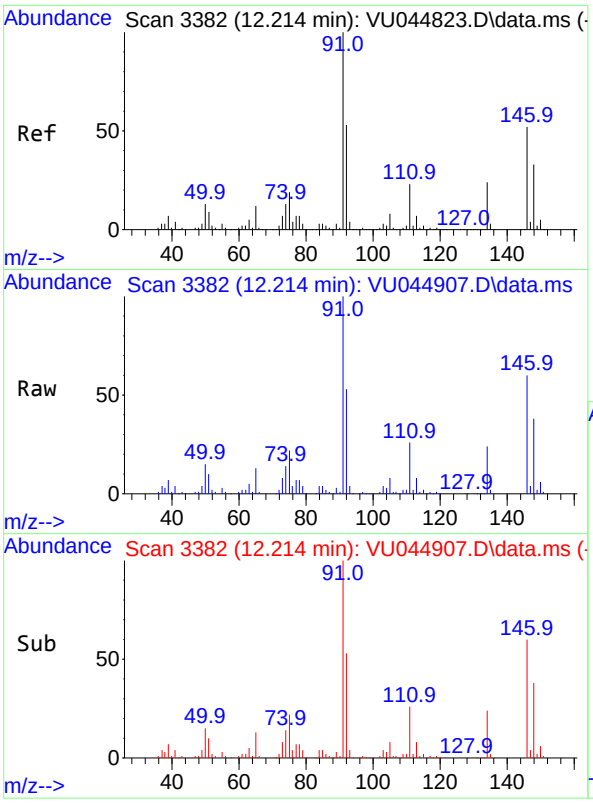
Tgt Ion:117 Resp: 25834

Ion	Ratio	Lower	Upper
117	100		
201	64.6	34.8	104.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

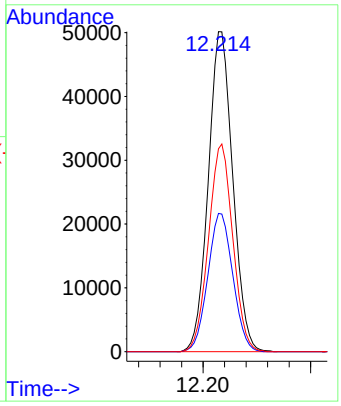
Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:42 PM

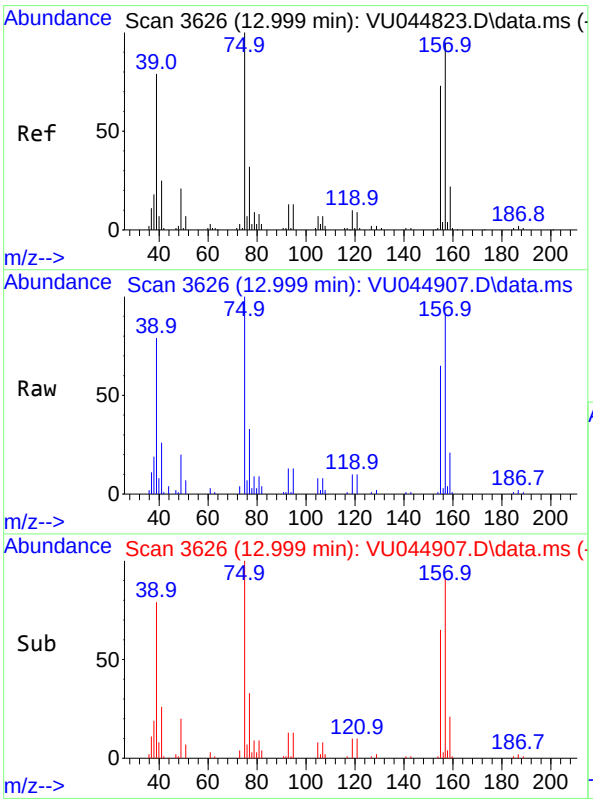


#91
1,2-Dichlorobenzene
Concen: 18.838 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:146 Resp: 79252

Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.4	64.3
148	64.3	31.8	95.3

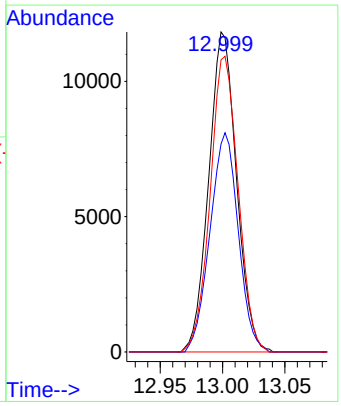




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.400 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

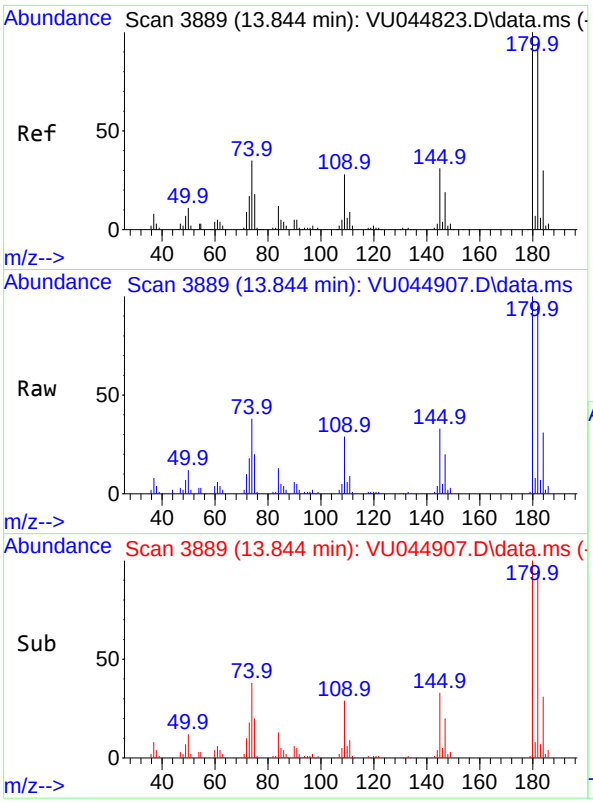
Tgt Ion: 75 Resp: 18350

Ion	Ratio	Lower	Upper
75	100		
155	69.8	36.9	110.6
157	93.0	47.8	143.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

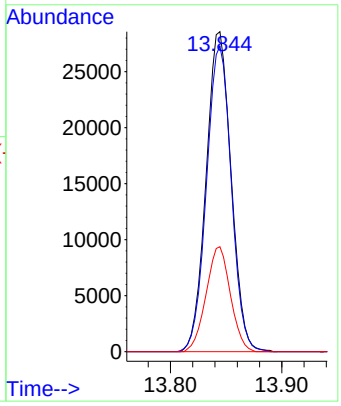
Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:42 PM

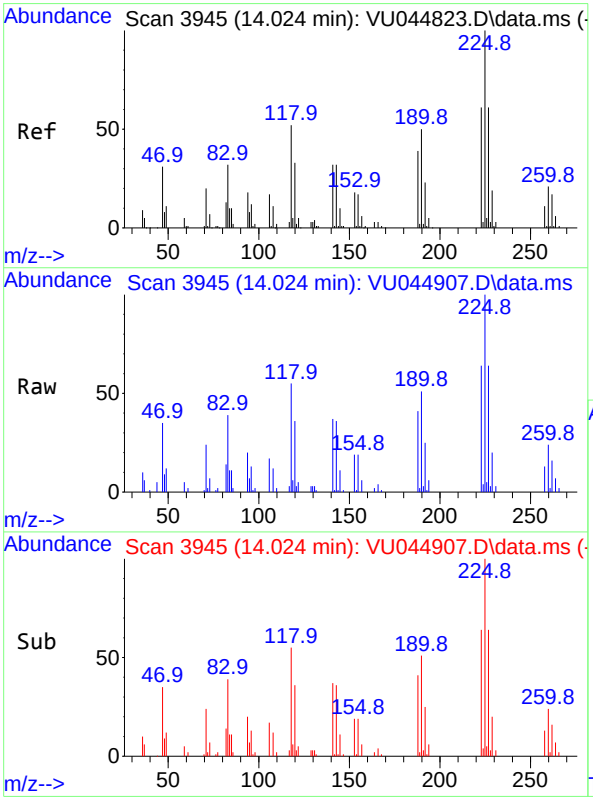


#93
1,2,4-Trichlorobenzene
Concen: 19.181 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:180 Resp: 44588

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.4	142.3
145	31.9	15.4	46.2

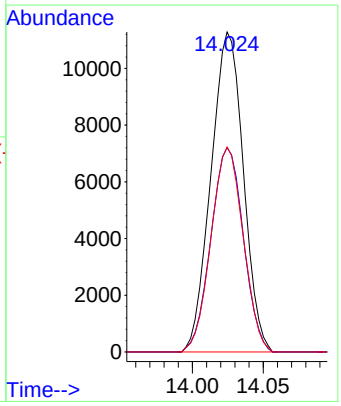




#94
Hexachlorobutadiene
Concen: 17.343 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

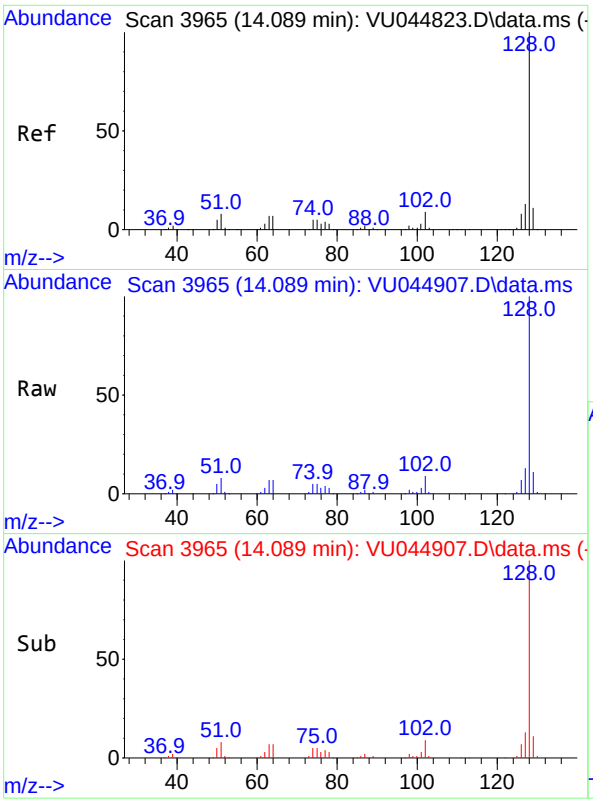
Tgt Ion:225 Resp: 17935

Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.1	93.3
227	63.5	31.4	94.3



Instrument :
MSVOA_U
ClientSampleId :
VU0927WBS02

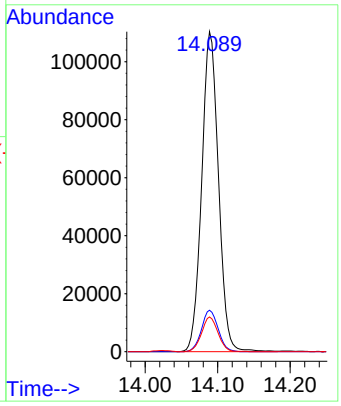
Manual Integrations APPROVED
MMDadoda
9/28/2021 1:33:42 PM

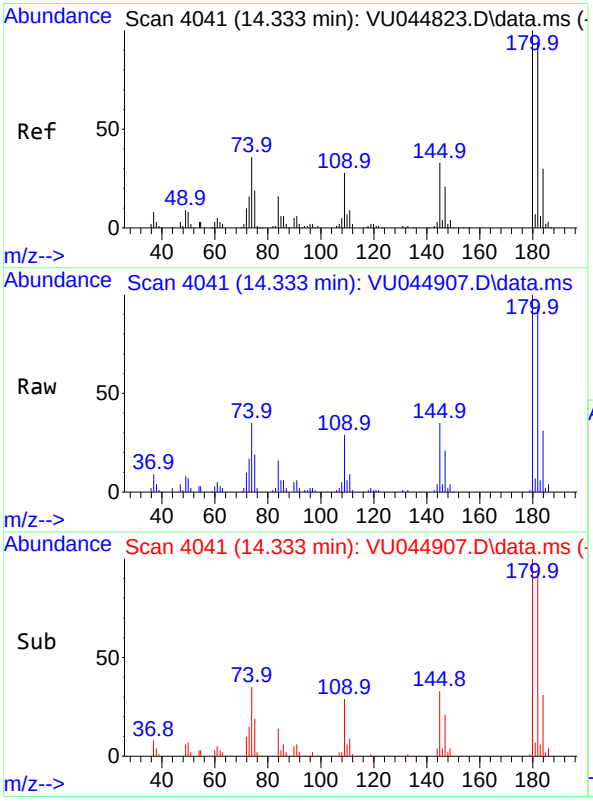


#95
Naphthalene
Concen: 19.687 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:128 Resp: 176776

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.7	8.6	13.0

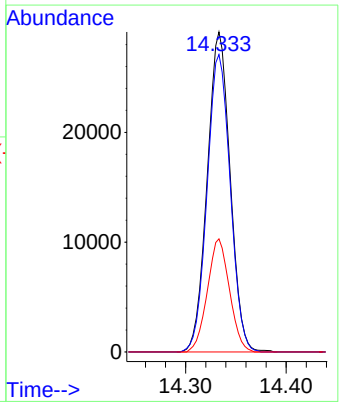




#96
1,2,3-Trichlorobenzene
Concen: 19.515 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044907.D
Acq: 27 Sep 2021 23:33

Tgt Ion:180 Resp: 46130

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.1	141.4
145	34.1	16.4	49.2



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MS	SDG No.:	M3859
Lab Sample ID:	M3859-08MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044853.D	1		09/25/21 21:38	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	53.1		0.23	1.00	ug/L
74-87-3	Chloromethane	41.4		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	52.6		0.19	1.00	ug/L
74-83-9	Bromomethane	30.3		0.87	5.00	ug/L
75-00-3	Chloroethane	48.8		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	50.2		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	49.4		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	48.9		0.26	1.00	ug/L
67-64-1	Acetone	240		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	46.6		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	52.2		0.22	1.00	ug/L
79-20-9	Methyl Acetate	45.0		0.47	1.00	ug/L
75-09-2	Methylene Chloride	47.3		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	51.2		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	50.7		0.21	1.00	ug/L
110-82-7	Cyclohexane	46.6		1.30	5.00	ug/L
78-93-3	2-Butanone	250		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	48.4		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	94.1		0.22	1.00	ug/L
74-97-5	Bromochloromethane	49.5		0.26	1.00	ug/L
67-66-3	Chloroform	49.1		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	50.1		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	49.6		0.14	1.00	ug/L
71-43-2	Benzene	48.1		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.9		0.25	1.00	ug/L
79-01-6	Trichloroethene	110		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	48.7		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	48.8		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	260		0.87	5.00	ug/L
108-88-3	Toluene	50.0		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	50.0		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.2		0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MS	SDG No.:	M3859
Lab Sample ID:	M3859-08MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044853.D	1		09/25/21 21:38	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	49.1		0.24	1.00	ug/L
591-78-6	2-Hexanone	260		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	49.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	49.6		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	160	E	0.17	1.00	ug/L
108-90-7	Chlorobenzene	48.8		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	51.0		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.32	2.00	ug/L
95-47-6	o-Xylene	52.3		0.19	1.00	ug/L
100-42-5	Styrene	48.5		0.16	1.00	ug/L
75-25-2	Bromoform	48.0		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	49.4		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	48.4		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	49.4		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	48.2		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	48.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	51.6		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	50.2		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.7		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	50.2		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		83 - 123	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	5.379			
540-36-3	1,4-Difluorobenzene	255000	6.253			
3114-55-4	Chlorobenzene-d5	249000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	131000	11.816			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MS	SDG No.:	M3859
Lab Sample ID:	M3859-08MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044853.D	1		09/25/21 21:38	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044853.D
Acq On : 25 Sep 2021 21:38
Operator : SY/MD
Sample : M3859-08MS
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 27 01:37:00 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:05 AM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	138056	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	255443	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	249499	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	131417	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	126325	52.429	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.860%			
35) Dibromofluoromethane	5.292	113	86673	49.460	ug/l	0.00
Spiked Amount 50.000			Recovery = 98.920%			
50) Toluene-d8	7.899	98	332196	50.193	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.380%			
62) 4-Bromofluorobenzene	10.636	95	130365	53.033	ug/l	0.00
Spiked Amount 50.000			Recovery = 106.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	87872	53.146	ug/l	99
3) Chloromethane	1.520	50	103766	41.353	ug/l	99
4) Vinyl Chloride	1.607	62	123252	52.629	ug/l	99
5) Bromomethane	1.832	94	36598	30.310	ug/l	99
6) Chloroethane	1.919	64	76772	48.843	ug/l	100
7) Trichlorofluoromethane	2.131	101	144506	50.245	ug/l	100
8) Diethyl Ether	2.379	74	67928	51.594	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.578	101	82910	49.364	ug/l	98
10) Methyl Iodide	2.723	142	61443	33.666	ug/l	97
11) Tert butyl alcohol	3.202	59	163159	232.006	ug/l	100
12) 1,1-Dichloroethene	2.578	96	81202	48.851	ug/l	99
13) Acrolein	2.488	56	51396	270.627	ug/l	99
14) Allyl chloride	2.925	41	155659	48.246	ug/l	99
15) Acrylonitrile	3.314	53	364087	247.844	ug/l	99
16) Acetone	2.630	43	330205	242.959	ug/l	100
17) Carbon Disulfide	2.793	76	217761	46.568	ug/l	100
18) Methyl Acetate	2.948	43	204166	44.965	ug/l	100
19) Methyl tert-butyl Ether	3.366	73	324208	52.231	ug/l	99
20) Methylene Chloride	3.047	84	104112	47.322	ug/l	97
21) trans-1,2-Dichloroethene	3.353	96	91201	51.244	ug/l	97
22) Diisopropyl ether	3.996	45	321334	50.408	ug/l	95
23) Vinyl Acetate	3.957	43	1231839	235.639	ug/l	99
24) 1,1-Dichloroethane	3.871	63	187669	50.720	ug/l	99
25) 2-Butanone	4.703	43	514839	249.659	ug/l	99
26) 2,2-Dichloropropane	4.668	77	126639	45.639	ug/l	93
27) cis-1,2-Dichloroethene	4.668	96	203609	94.064	ug/l	94
28) Bromochloromethane	4.977	49	86992	49.474	ug/l	98
29) Tetrahydrofuran	5.054	42	316964	244.316	ug/l	98
30) Chloroform	5.092	83	182849	49.148	ug/l	100
31) Cyclohexane	5.391	56	161255	46.616	ug/l	98
32) 1,1,1-Trichloroethane	5.321	97	150684	50.127	ug/l	99
36) 1,1-Dichloropropene	5.530	75	129655	47.838	ug/l	100
37) Ethyl Acetate	4.806	43	172184	43.297	ug/l	99
38) Carbon Tetrachloride	5.527	117	117257	48.393	ug/l	99
39) Methylcyclohexane	6.768	83	151958	49.572	ug/l	98
40) Benzene	5.777	78	397234	48.072	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044853.D
Acq On : 25 Sep 2021 21:38
Operator : SY/MD
Sample : M3859-08MS
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 27 01:37:00 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.973	41	96950	48.841	ug/l		97
42) 1,2-Dichloroethane	5.797	62	158923	48.886	ug/l		99
43) Isopropyl Acetate	5.916	43	262086	47.106	ug/l		100
44) Trichloroethene	6.546	130	213299	107.403	ug/l		97
45) 1,2-Dichloropropane	6.793	63	108898	48.694	ug/l		100
46) Dibromomethane	6.922	93	72973	49.244	ug/l		99
47) Bromodichloromethane	7.108	83	142714	48.824	ug/l		98
48) Methyl methacrylate	6.964	41	132421	50.426	ug/l		98
49) 1,4-Dioxane	6.970	88	65847	981.105	ug/l		95
51) 4-Methyl-2-Pentanone	7.797	43	1016533	256.360	ug/l		100
52) Toluene	7.973	92	247162	50.030	ug/l		99
53) t-1,3-Dichloropropene	8.214	75	152267	50.000	ug/l		100
54) cis-1,3-Dichloropropene	7.610	75	162209	49.184	ug/l		100
55) 1,1,2-Trichloroethane	8.404	97	103765	49.126	ug/l		98
56) Ethyl methacrylate	8.337	69	177734	47.344	ug/l		99
57) 1,3-Dichloropropane	8.578	76	185657	49.362	ug/l		100
59) 2-Hexanone	8.687	43	830846	261.037	ug/l		100
60) Dibromochloromethane	8.813	129	99634	49.259	ug/l		99
61) 1,2-Dibromoethane	8.928	107	110015	49.605	ug/l		99
64) Tetrachloroethene	8.555	164	266781	157.751	ug/l		99
65) Chlorobenzene	9.449	112	252911	48.829	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	88857	48.098	ug/l		99
67) Ethyl Benzene	9.575	91	471533	51.005	ug/l		99
68) m/p-Xylenes	9.697	106	364077	102.967	ug/l		98
69) o-Xylene	10.105	106	178919	52.330	ug/l		98
70) Styrene	10.118	104	309774	48.506	ug/l		99
71) Bromoform	10.295	173	73298	47.951	ug/l	#	100
73) Isopropylbenzene	10.488	105	461137	49.439	ug/l		99
74) N-amyl acetate	10.324	43	232714	48.951	ug/l		100
75) 1,1,2,2-Tetrachloroethane	10.787	83	205847	48.442	ug/l		100
76) 1,2,3-Trichloropropane	10.829	75	194477m	48.870	ug/l		
77) Bromobenzene	10.784	156	109437	49.110	ug/l		98
78) n-propylbenzene	10.909	91	579062	51.235	ug/l		99
79) 2-Chlorotoluene	10.989	91	347769	50.488	ug/l		99
80) 1,3,5-Trimethylbenzene	11.092	105	409245	51.798	ug/l		100
81) trans-1,4-Dichloro-2-b...	10.549	75	57491	46.799	ug/l		98
82) 4-Chlorotoluene	11.099	91	405517	51.711	ug/l		99
83) tert-Butylbenzene	11.423	119	384839	50.492	ug/l		99
84) 1,2,4-Trimethylbenzene	11.472	105	411679	52.853	ug/l		99
85) sec-Butylbenzene	11.645	105	514231	52.176	ug/l		99
86) p-Isopropyltoluene	11.796	119	421601	52.583	ug/l		99
87) 1,3-Dichlorobenzene	11.748	146	213529	49.377	ug/l		99
88) 1,4-Dichlorobenzene	11.838	146	215666	48.225	ug/l		98
89) n-Butylbenzene	12.211	91	392014	47.531	ug/l		100
90) Hexachloroethane	12.478	117	71680	49.613	ug/l		95
91) 1,2-Dichlorobenzene	12.214	146	222030	48.449	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.999	75	53185	51.616	ug/l		96
93) 1,2,4-Trichlorobenzene	13.841	180	127005	50.154	ug/l		99
94) Hexachlorobutadiene	14.025	225	50094	44.468	ug/l		98
95) Naphthalene	14.089	128	494184	49.046	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	130637	50.733	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044853.D
Acq On : 25 Sep 2021 21:38
Operator : SY/MD
Sample : M3859-08MS
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 27 01:37:00 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044853.D
Acq On : 25 Sep 2021 21:38
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Quant Time: Sep 27 01:37:00 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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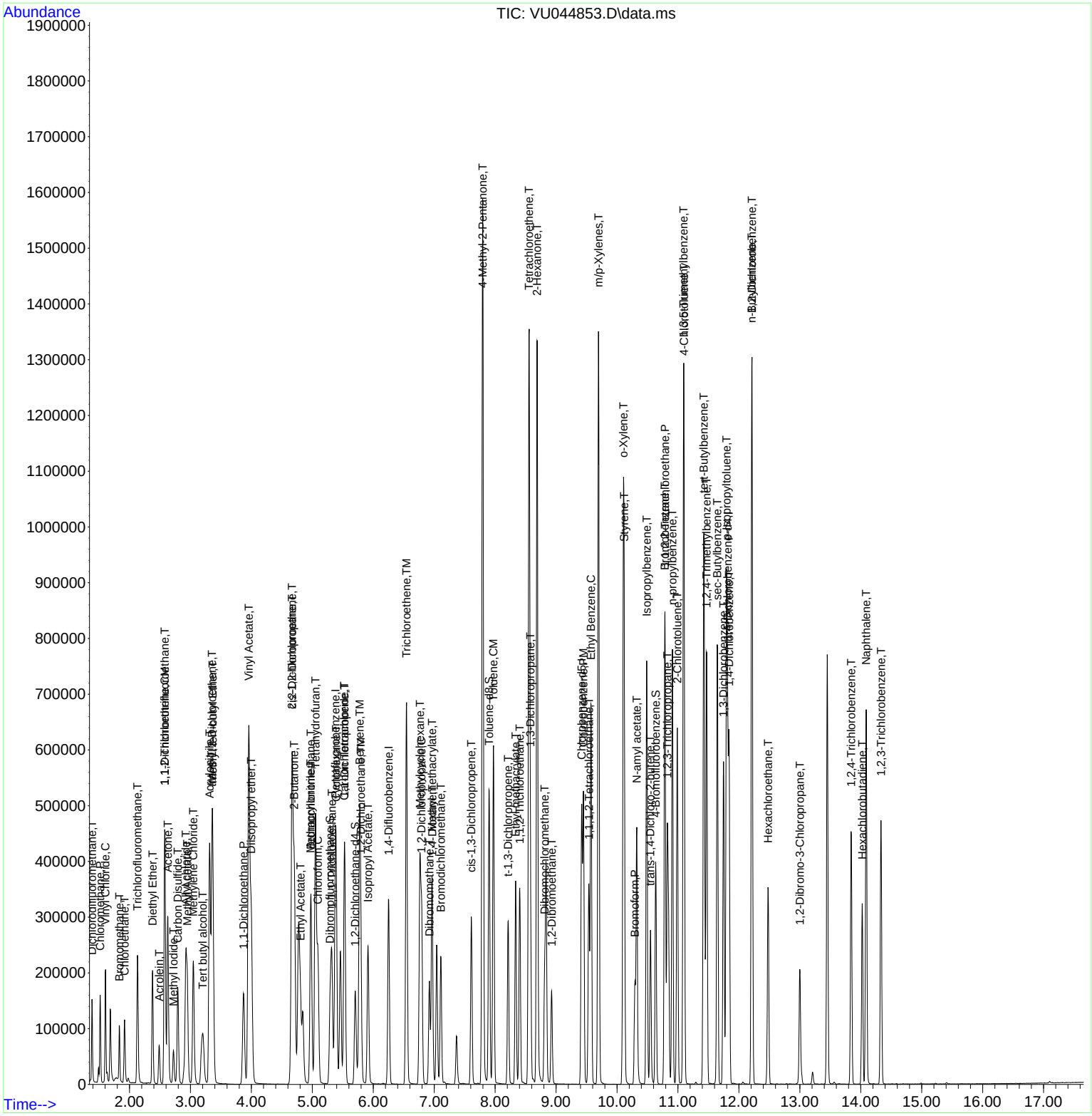

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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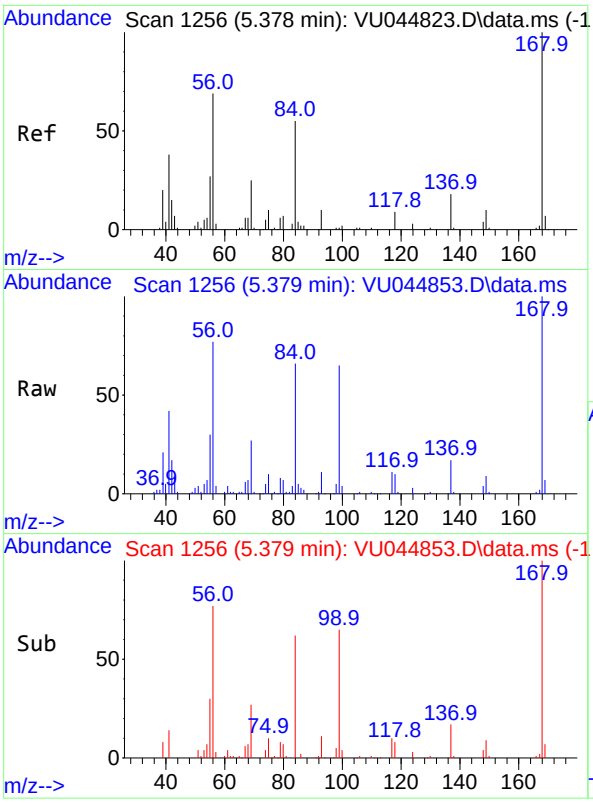
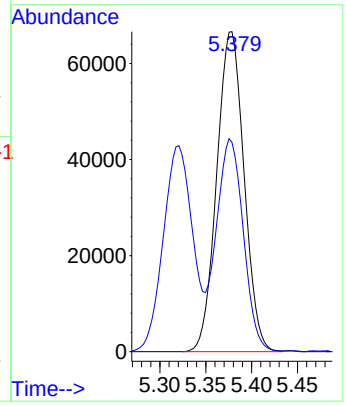
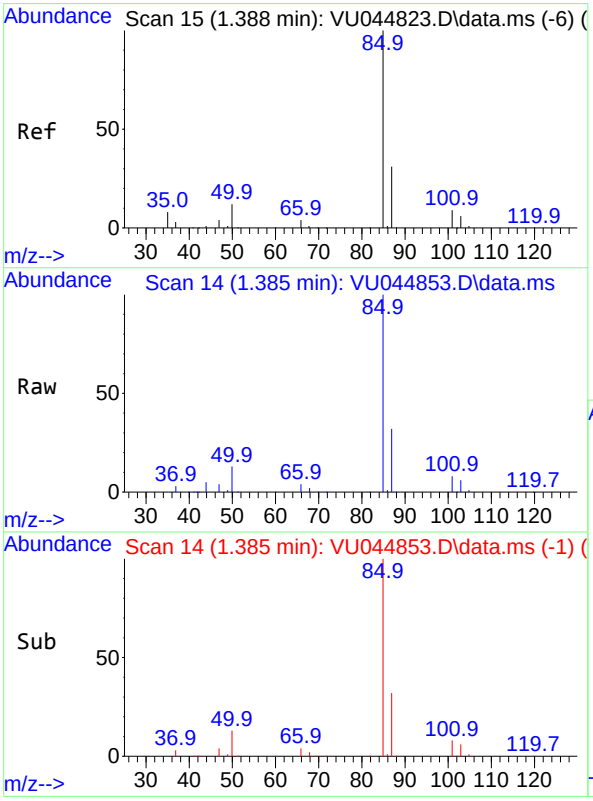


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.001 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:168 Resp: 138056

Ion	Ratio	Lower	Upper
168	100		
99	65.2	51.4	77.0

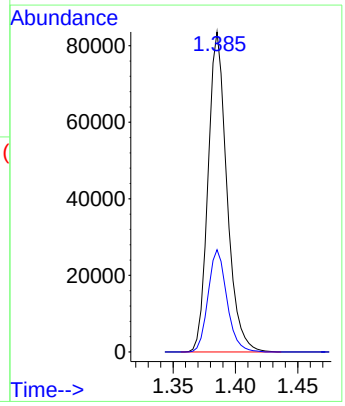




#2
Dichlorodifluoromethane
Concen: 53.146 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 85 Resp: 87872

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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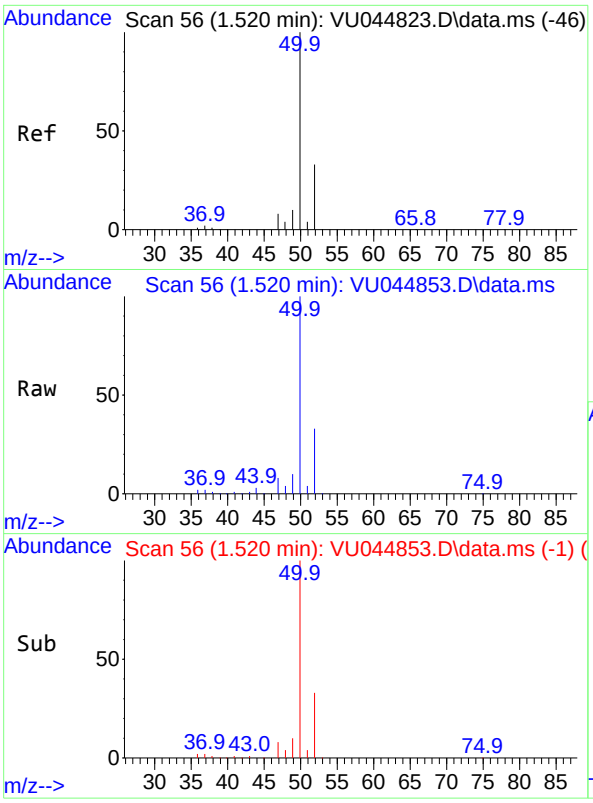
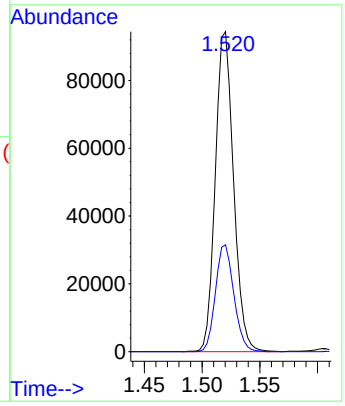
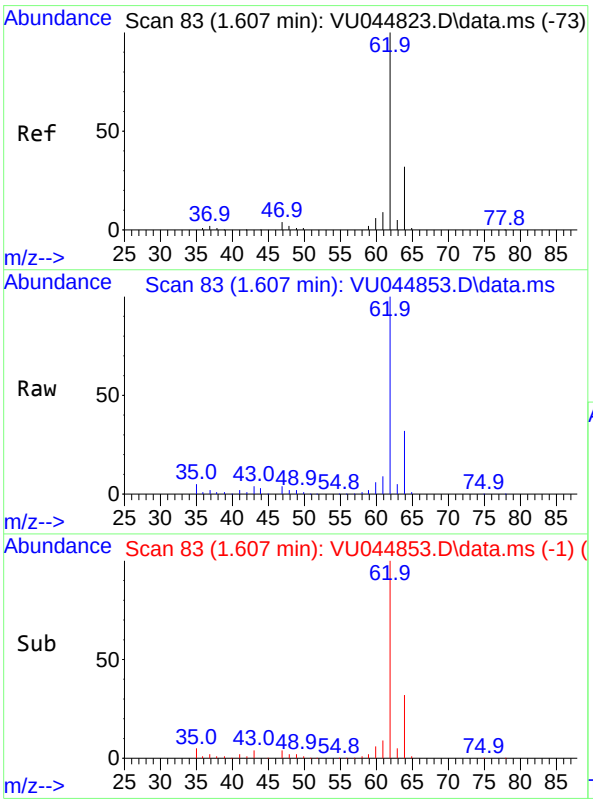


#3
Chloromethane
Concen: 41.353 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 50 Resp: 103766

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.3	39.5

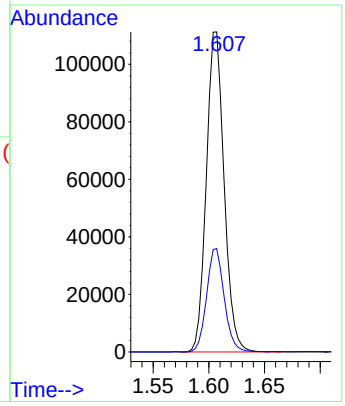




#4
Vinyl Chloride
Concen: 52.629 ug/l
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 62 Resp: 123252

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.6	38.4



Instrument :
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ClientSampleId :
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Manual Integrations APPROVED
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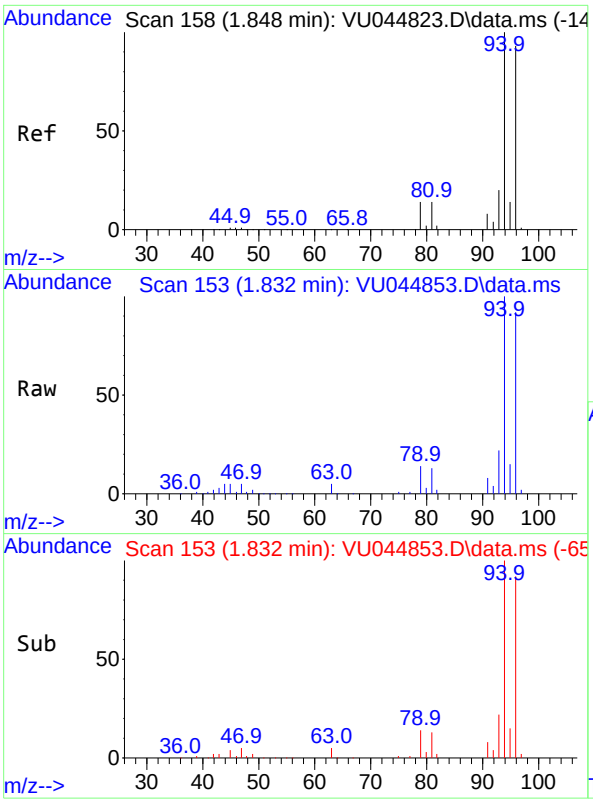
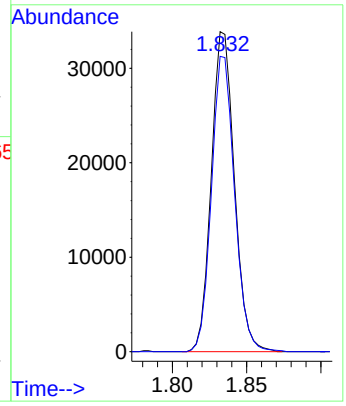
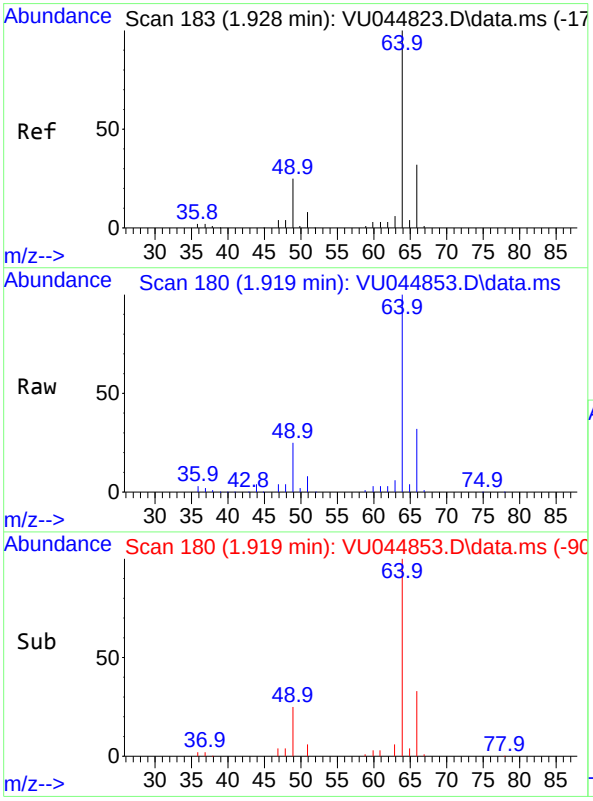


#5
Bromomethane
Concen: 30.310 ug/l
RT: 1.832 min Scan# 153
Delta R.T. -0.016 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 94 Resp: 36598

Ion	Ratio	Lower	Upper
94	100		
96	92.3	74.5	111.7

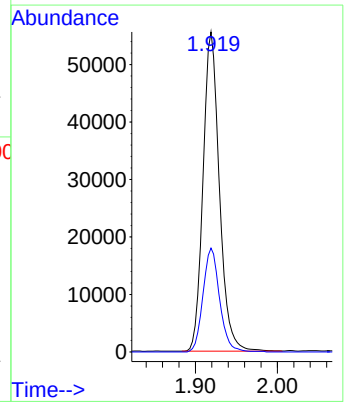




#6
Chloroethane
Concen: 48.843 ug/l
RT: 1.919 min Scan# 180
Delta R.T. -0.009 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 64 Resp: 76772

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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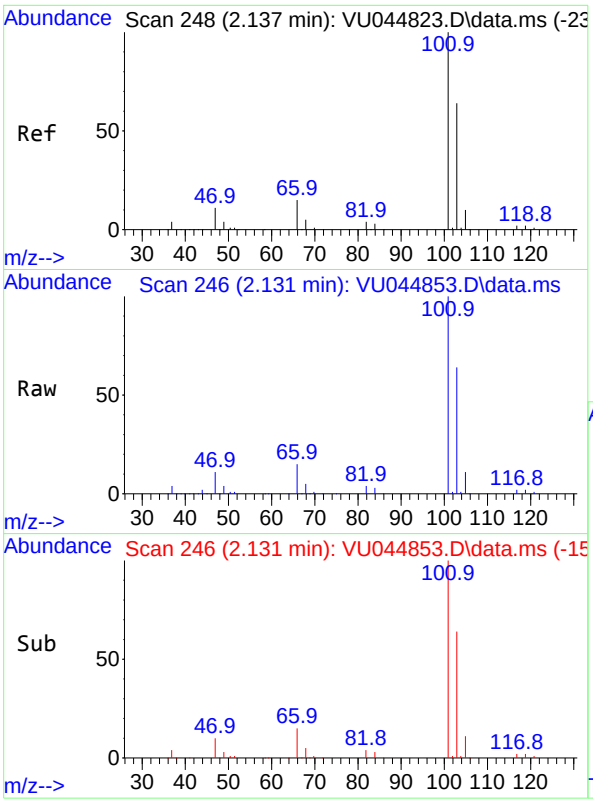
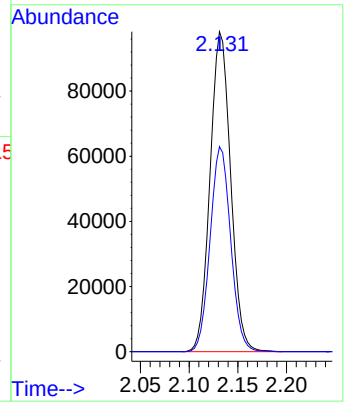
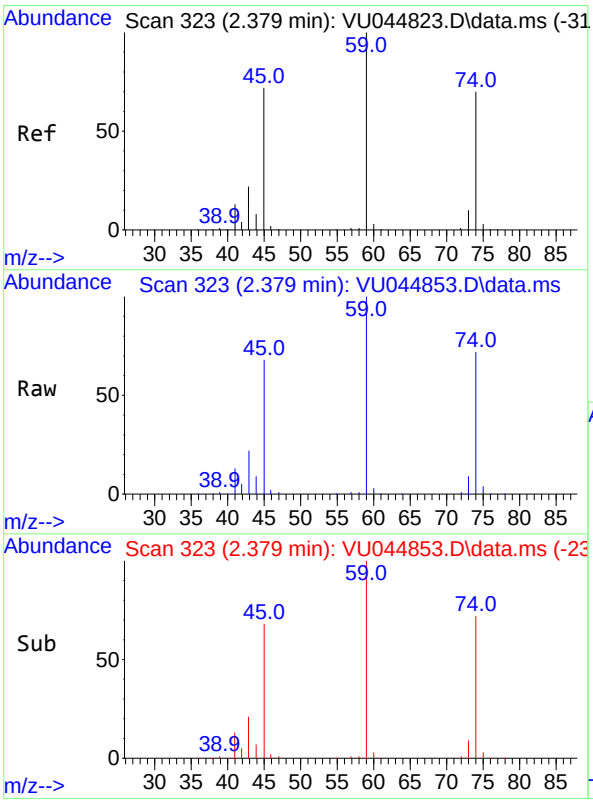


#7
Trichlorofluoromethane
Concen: 50.245 ug/l
RT: 2.131 min Scan# 246
Delta R.T. -0.006 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:101 Resp: 144506

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.2	76.8

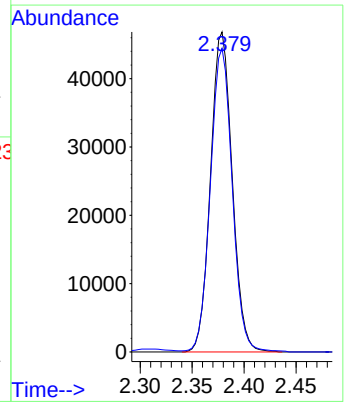




#8
Diethyl Ether
Concen: 51.594 ug/l
RT: 2.379 min Scan# 323
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

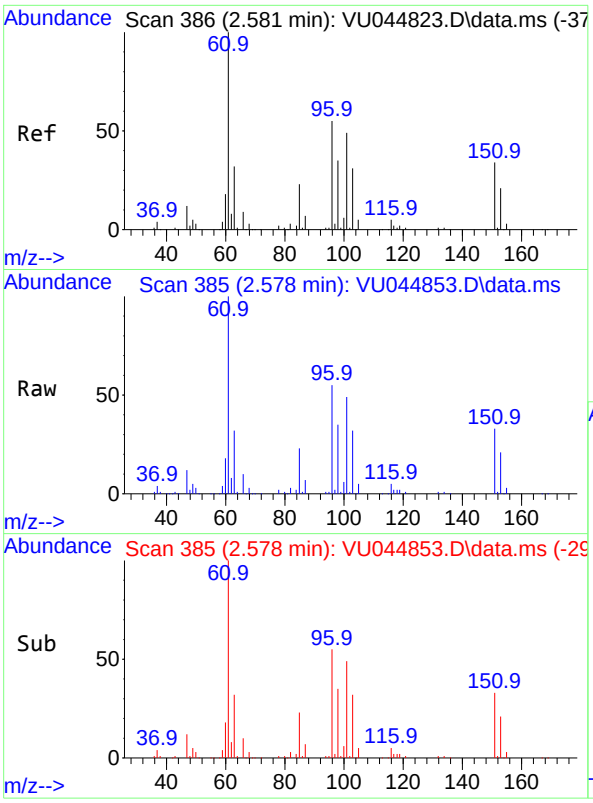
Tgt Ion: 74 Resp: 67928

Ion	Ratio	Lower	Upper
74	100		
45	95.7	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

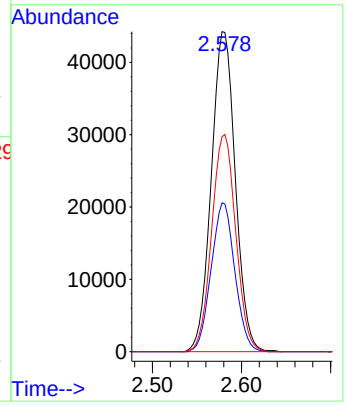
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:05 AM

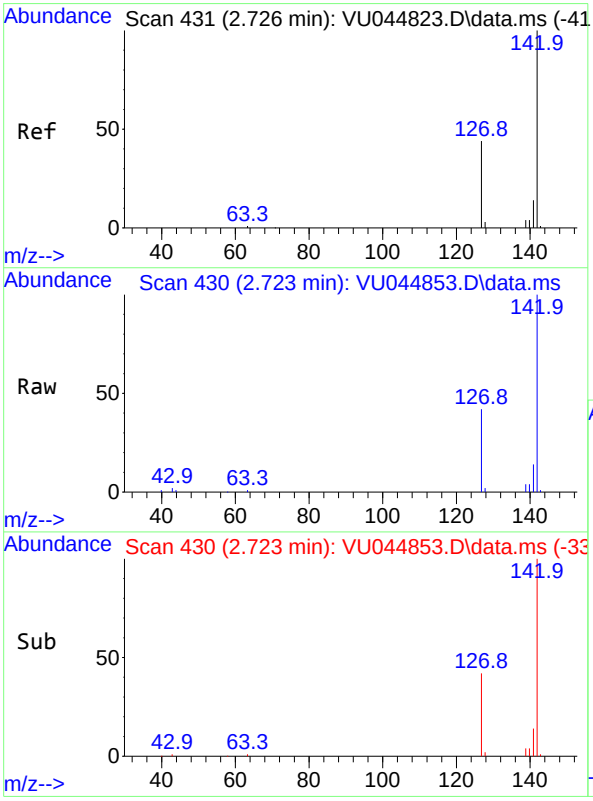


#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.364 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:101 Resp: 82910

Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.2	55.8
151	68.1	55.8	83.8

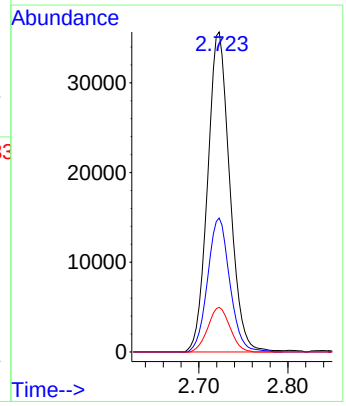




#10
Methyl Iodide
Concen: 33.666 ug/l
RT: 2.723 min Scan# 430
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:142 Resp: 61443

Ion	Ratio	Lower	Upper
142	100		
127	42.0	35.6	53.4
141	13.9	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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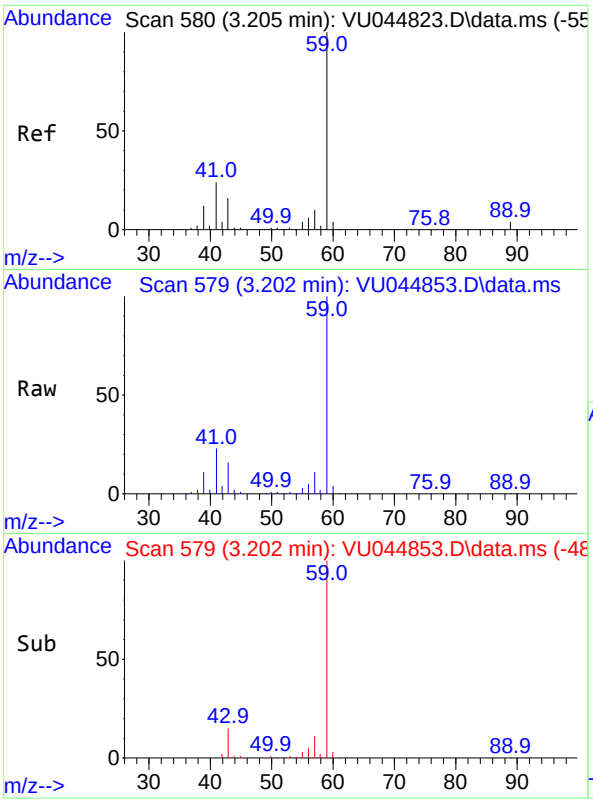
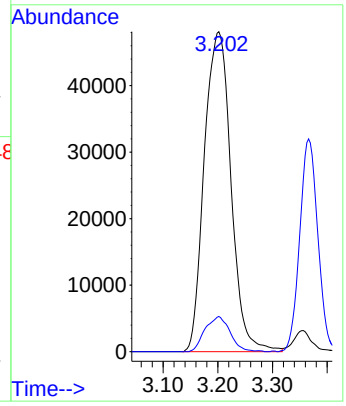
9/27/2021 11:03:05 AM

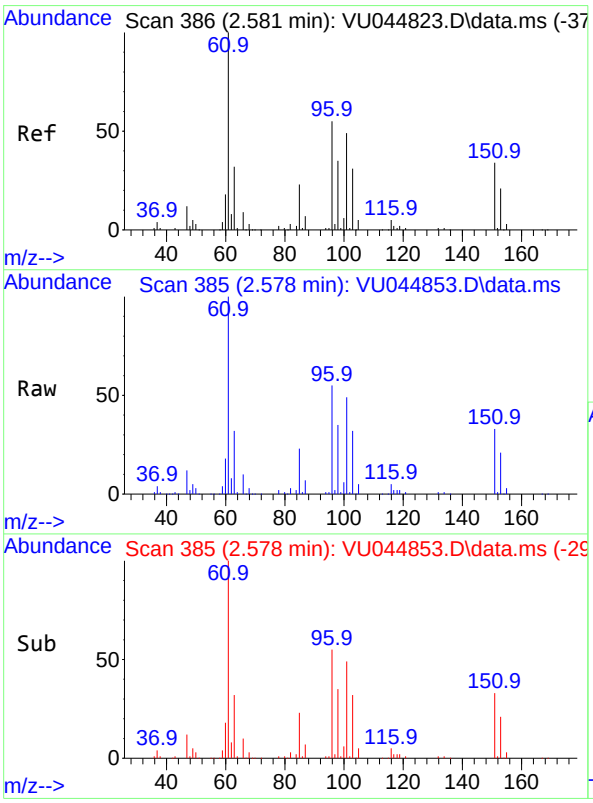


#11
Tert butyl alcohol
Concen: 232.006 ug/l
RT: 3.202 min Scan# 579
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 59 Resp: 163159

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

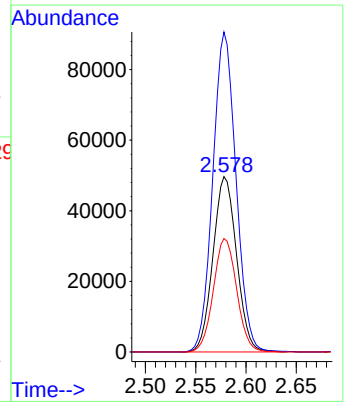




#12
1,1-Dichloroethene
Concen: 48.851 ug/l
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 96 Resp: 81202

Ion	Ratio	Lower	Upper
96	100		
61	182.5	145.4	218.0
98	64.8	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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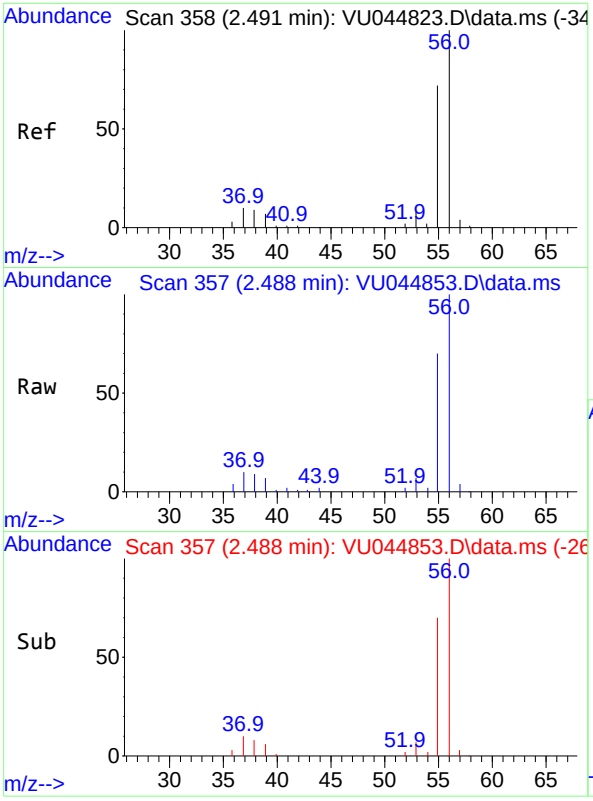
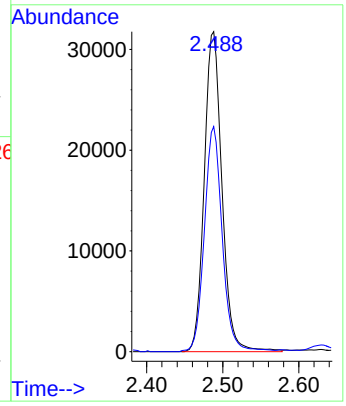
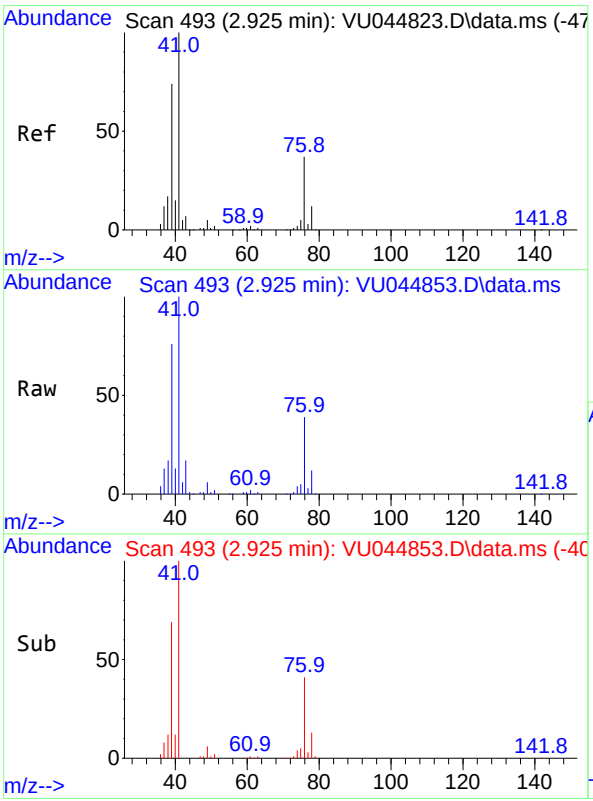


#13
Acrolein
Concen: 270.627 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 56 Resp: 51396

Ion	Ratio	Lower	Upper
56	100		
55	71.1	57.4	86.0

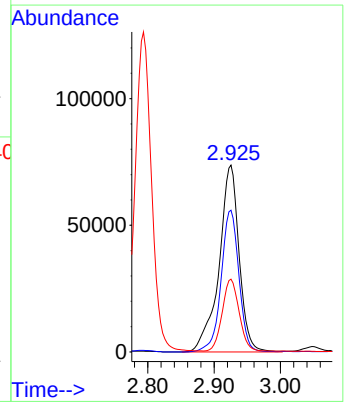




#14
Allyl chloride
Concen: 48.246 ug/l
RT: 2.925 min Scan# 493
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 41 Resp: 155659

Ion	Ratio	Lower	Upper
41	100		
39	67.0	53.0	79.6
76	32.4	25.7	38.5



Instrument :
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ClientSampleId :
1028-MW-02MS

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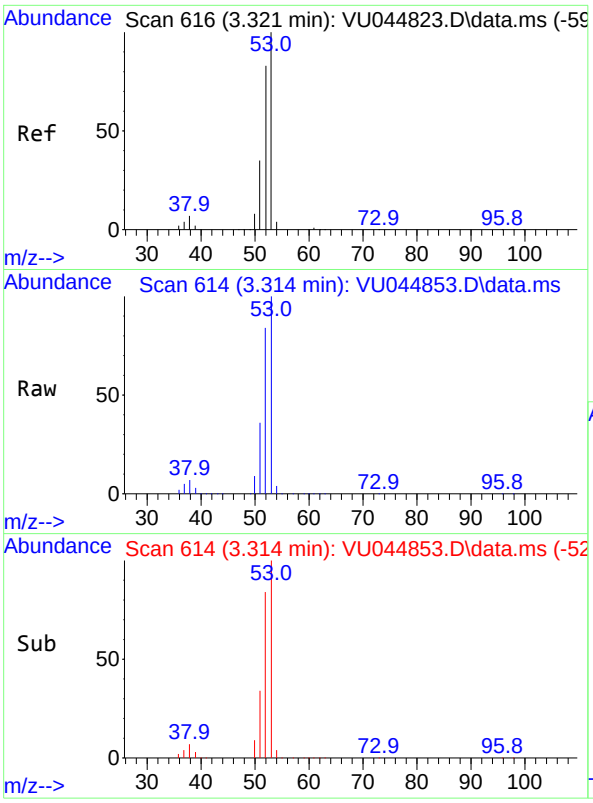
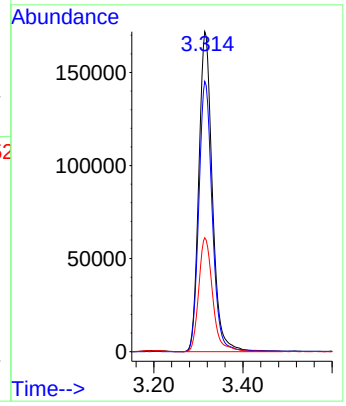
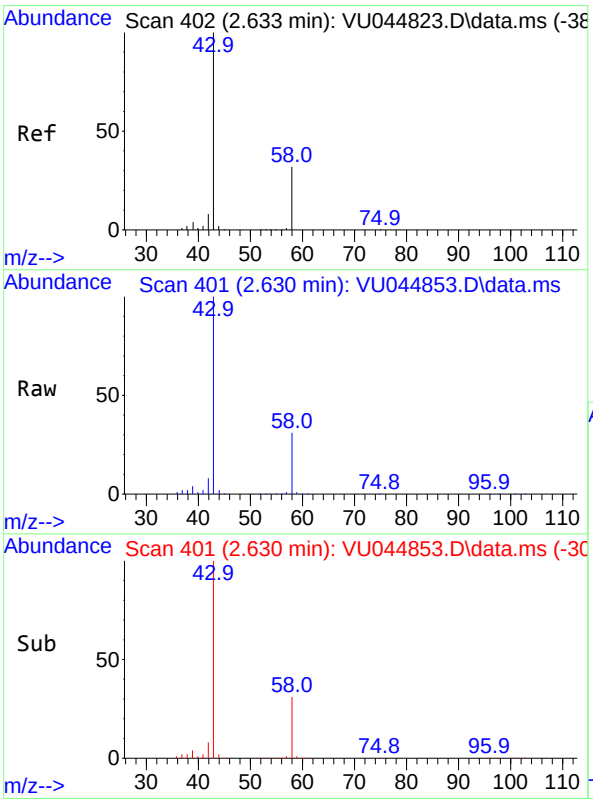


#15
Acrylonitrile
Concen: 247.844 ug/l
RT: 3.314 min Scan# 614
Delta R.T. -0.006 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 53 Resp: 364087

Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.0	99.0
51	36.6	28.6	42.8

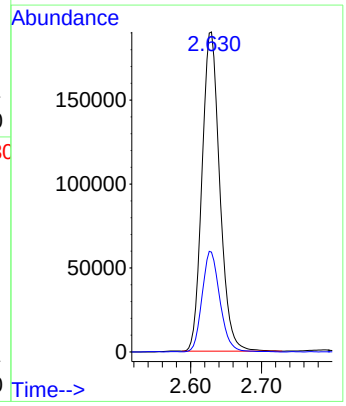




#16
Acetone
Concen: 242.959 ug/l
RT: 2.630 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 330205

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.2	37.8



Instrument :
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ClientSampleId :
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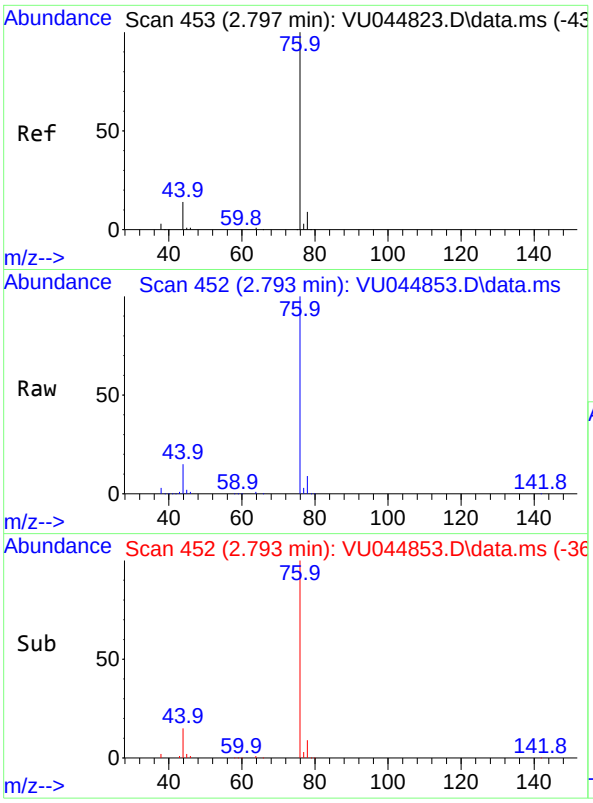
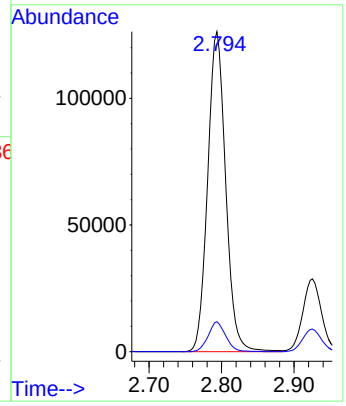
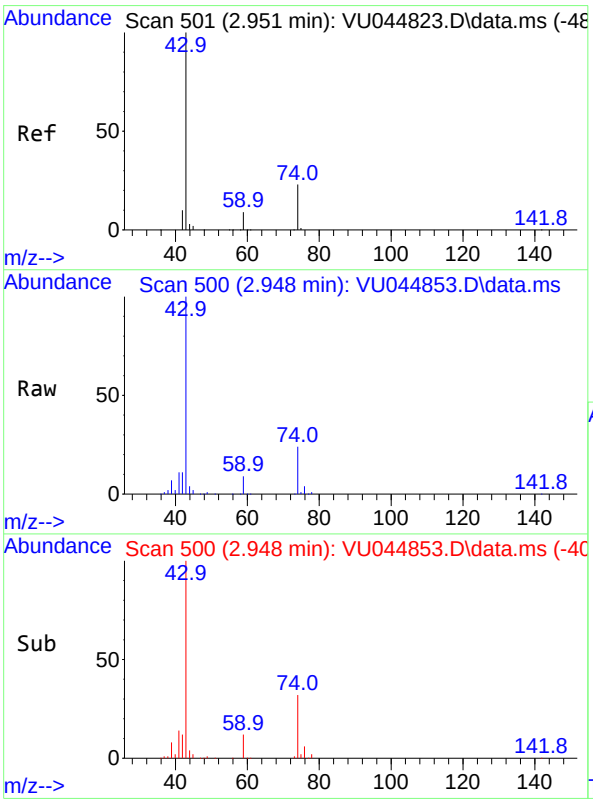


#17
Carbon Disulfide
Concen: 46.568 ug/l
RT: 2.793 min Scan# 452
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 76 Resp: 217761

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0

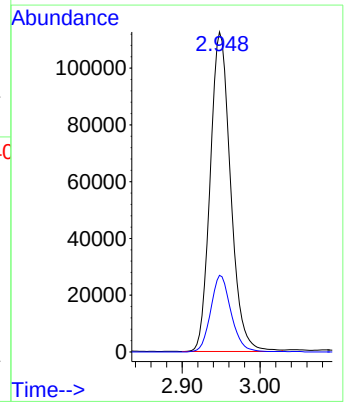




#18
Methyl Acetate
Concen: 44.965 ug/l
RT: 2.948 min Scan# 500
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 204166

Ion	Ratio	Lower	Upper
43	100		
74	24.0	19.0	28.6



Instrument :
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ClientSampleId :
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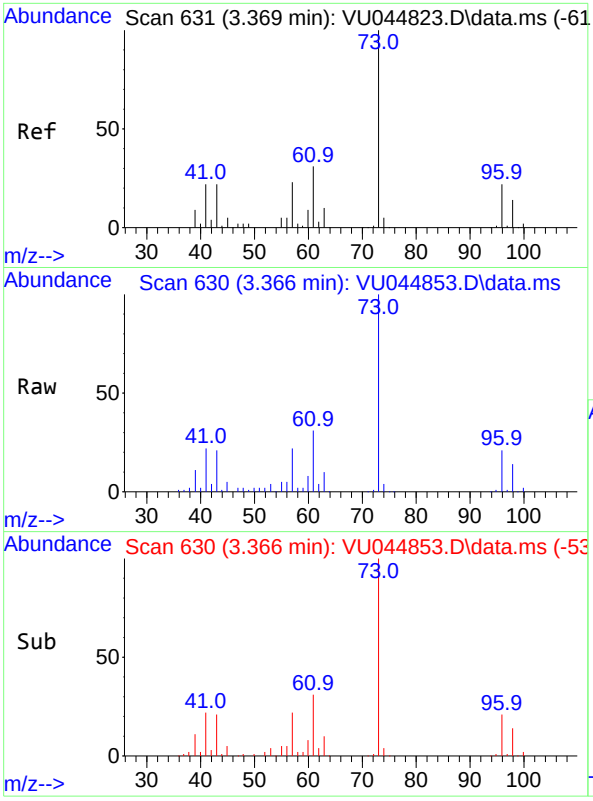
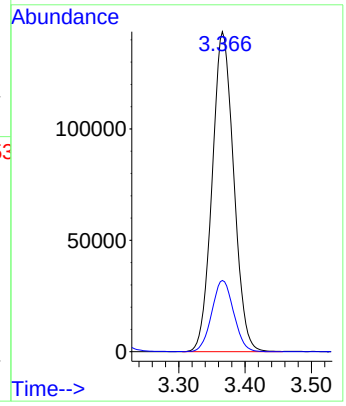
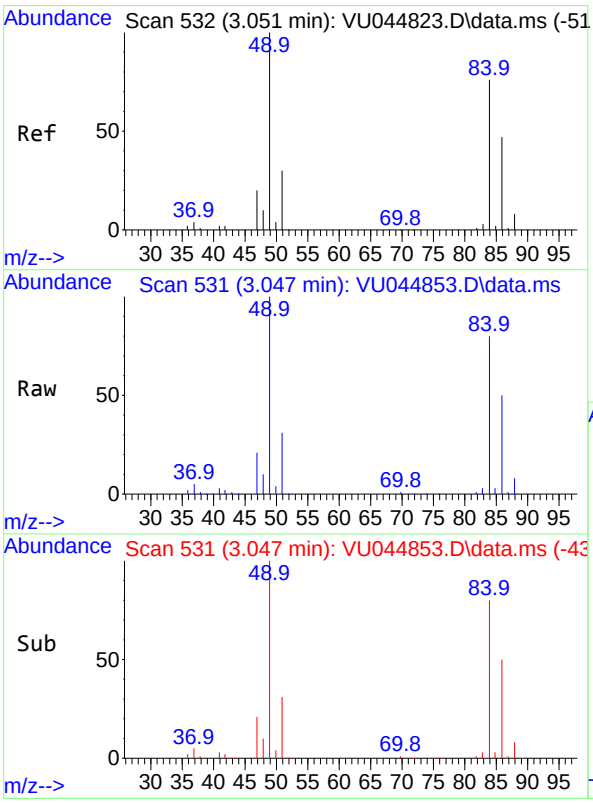


#19
Methyl tert-butyl Ether
Concen: 52.231 ug/l
RT: 3.366 min Scan# 630
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 73 Resp: 324208

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.2	27.2

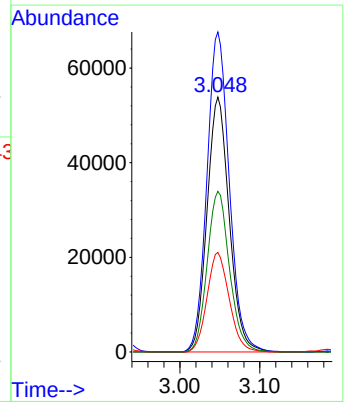




#20
Methylene Chloride
Concen: 47.322 ug/l
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 84 Resp: 104112

Ion	Ratio	Lower	Upper
84	100		
49	125.6	104.9	157.3
51	39.1	31.8	47.8
86	63.0	49.8	74.6



Instrument :
MSVOA_U
ClientSampleId :
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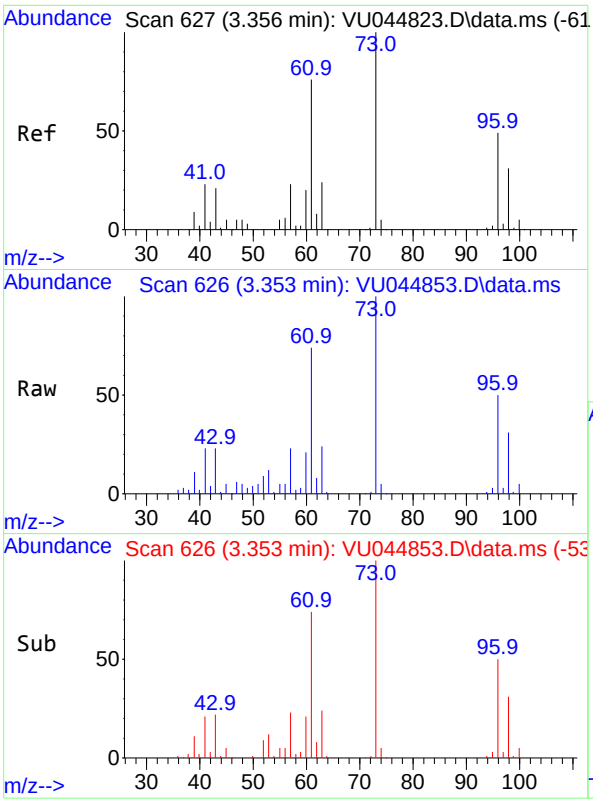
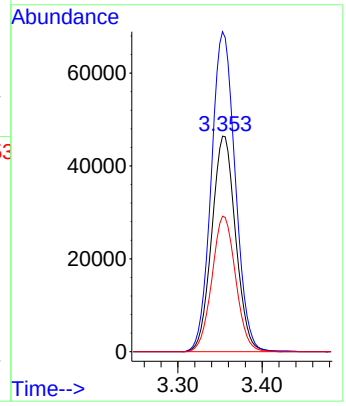
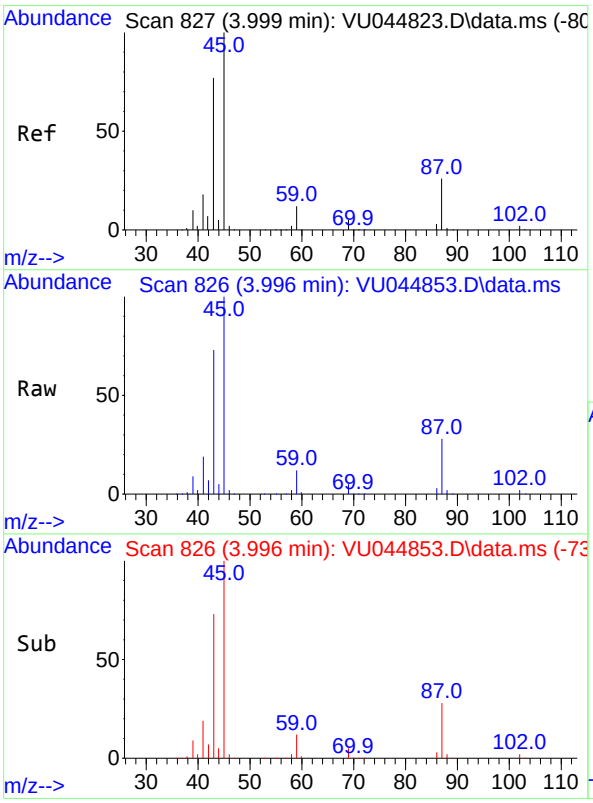


#21
trans-1,2-Dichloroethene
Concen: 51.244 ug/l
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 96 Resp: 91201

Ion	Ratio	Lower	Upper
96	100		
61	148.5	123.2	184.8
98	62.9	51.0	76.6

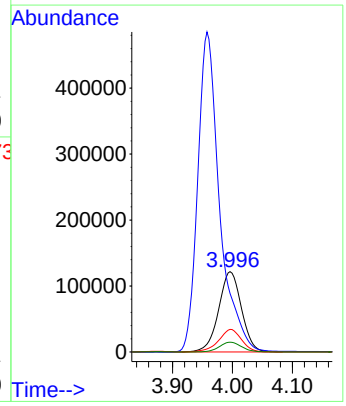




#22
Diisopropyl ether
Concen: 50.408 ug/l
RT: 3.996 min Scan# 826
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 45 Resp: 321334

Ion	Ratio	Lower	Upper
45	100		
43	72.2	62.3	93.5
87	28.1	21.0	31.4
59	12.2	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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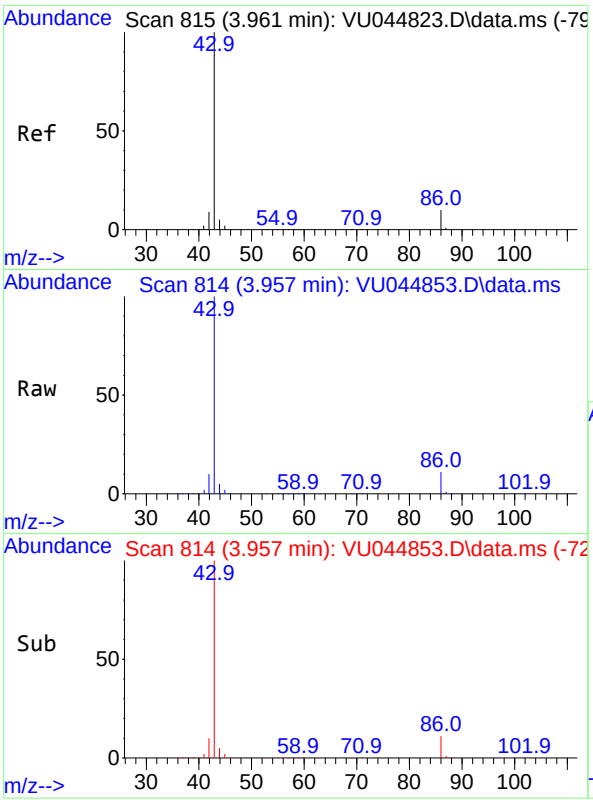
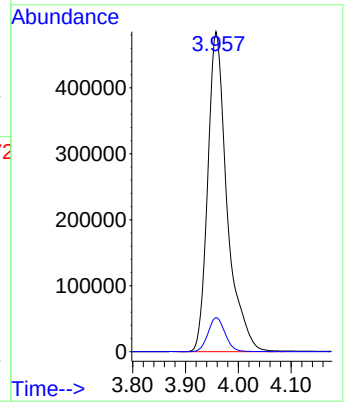
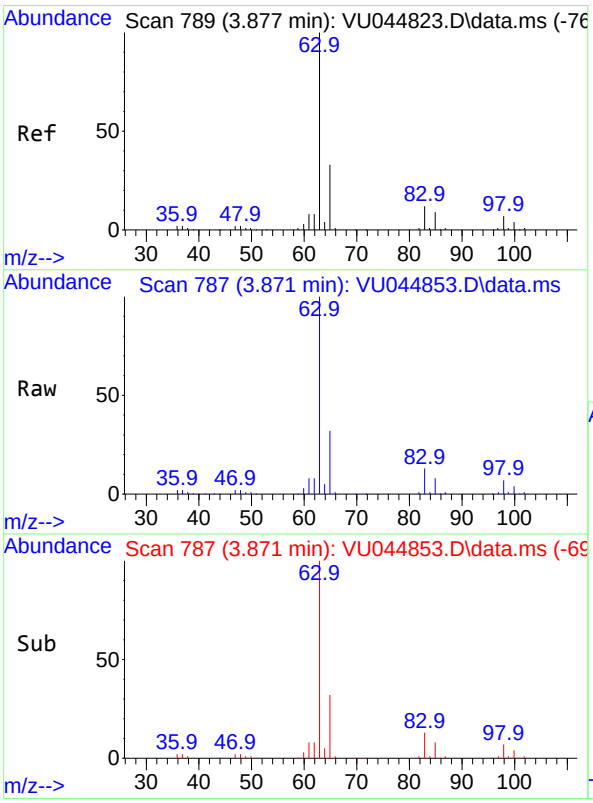


#23
Vinyl Acetate
Concen: 235.639 ug/l
RT: 3.957 min Scan# 814
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 1231839

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.4

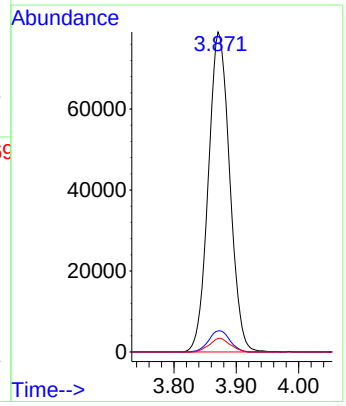




#24
1,1-Dichloroethane
Concen: 50.720 ug/l
RT: 3.871 min Scan# 787
Delta R.T. -0.006 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 63 Resp: 187669

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.4
100	4.2	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
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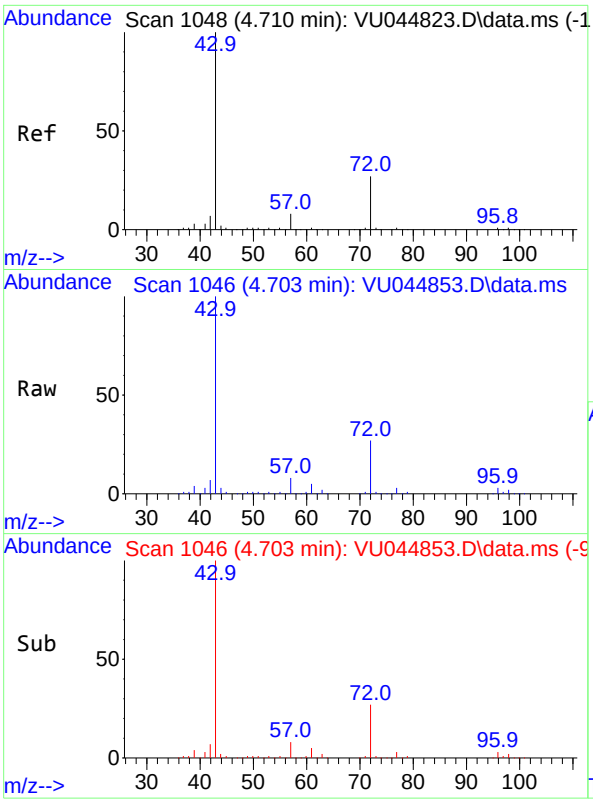
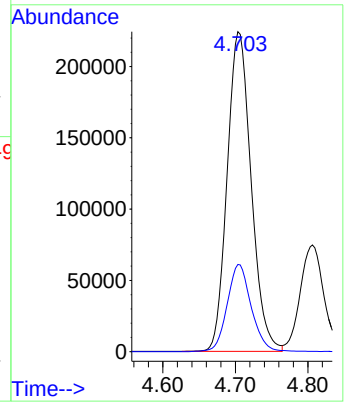
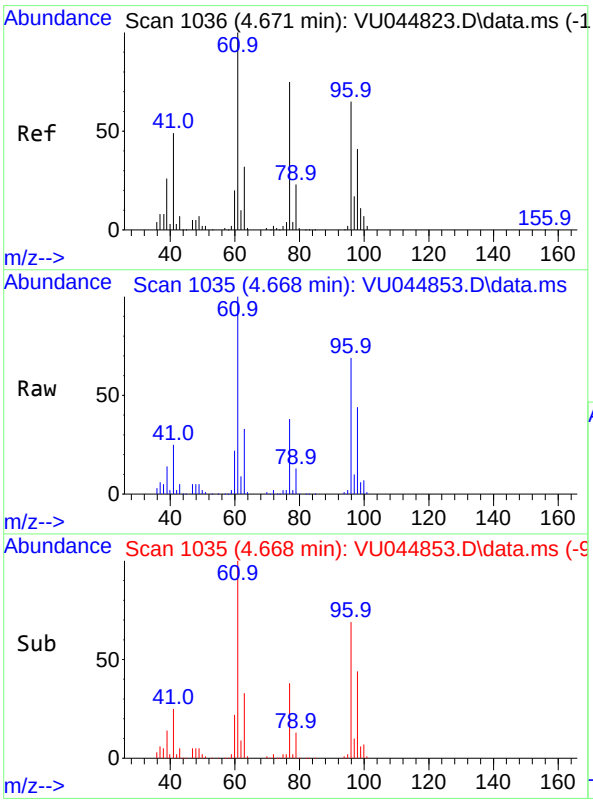


#25
2-Butanone
Concen: 249.659 ug/l
RT: 4.703 min Scan# 1046
Delta R.T. -0.006 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 514839

Ion	Ratio	Lower	Upper
43	100		
72	27.3	21.3	31.9

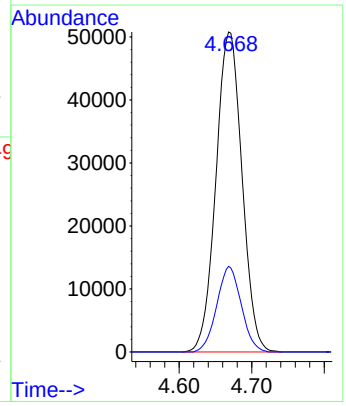




#26
2,2-Dichloropropane
Concen: 45.639 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 77 Resp: 126639

Ion	Ratio	Lower	Upper
77	100		
97	25.1	10.8	32.4



Instrument :
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ClientSampleId :
1028-MW-02MS

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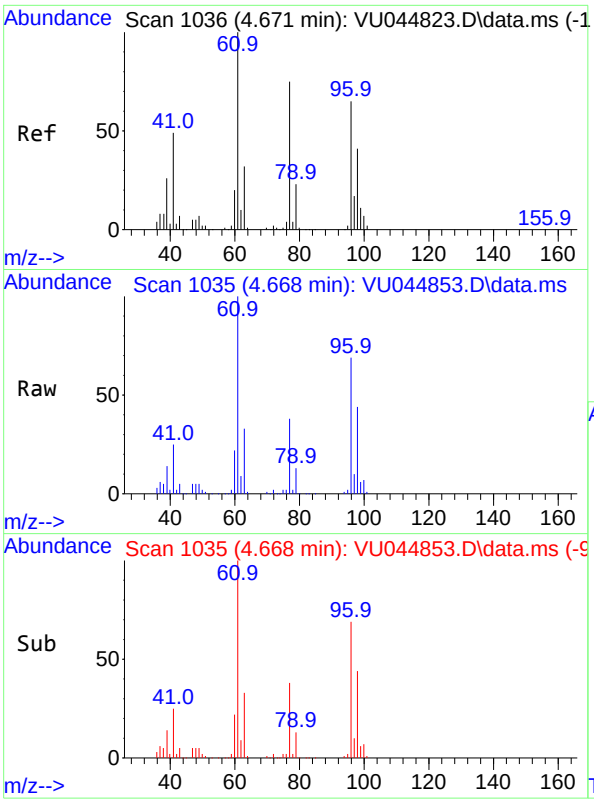
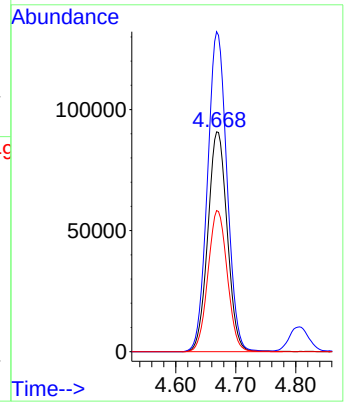
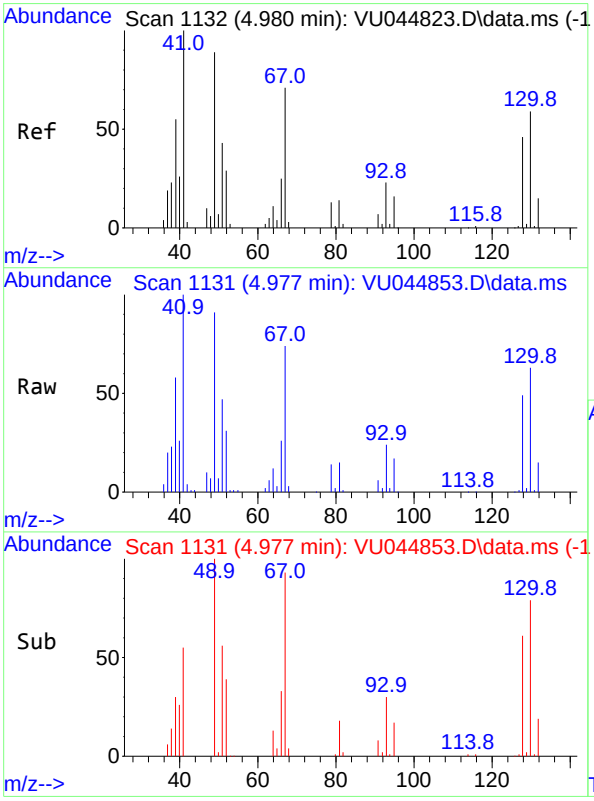


#27
cis-1,2-Dichloroethene
Concen: 94.064 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 96 Resp: 203609

Ion	Ratio	Lower	Upper
96	100		
61	146.2	0.0	313.4
98	64.2	0.0	127.0

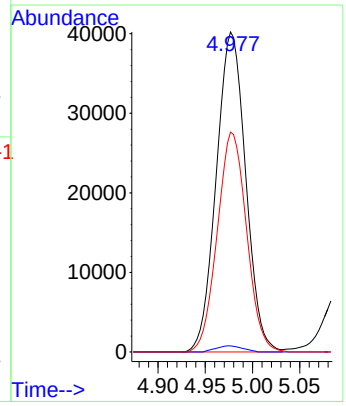




#28
Bromochloromethane
Concen: 49.474 ug/l
RT: 4.977 min Scan# 1131
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 49 Resp: 86992

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	68.4	53.4	80.2



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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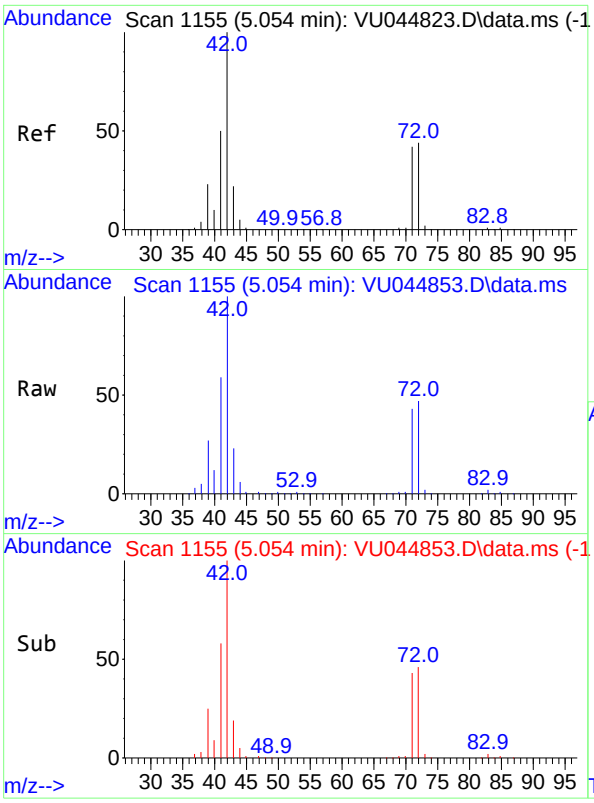
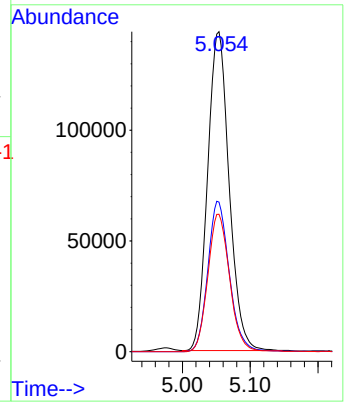
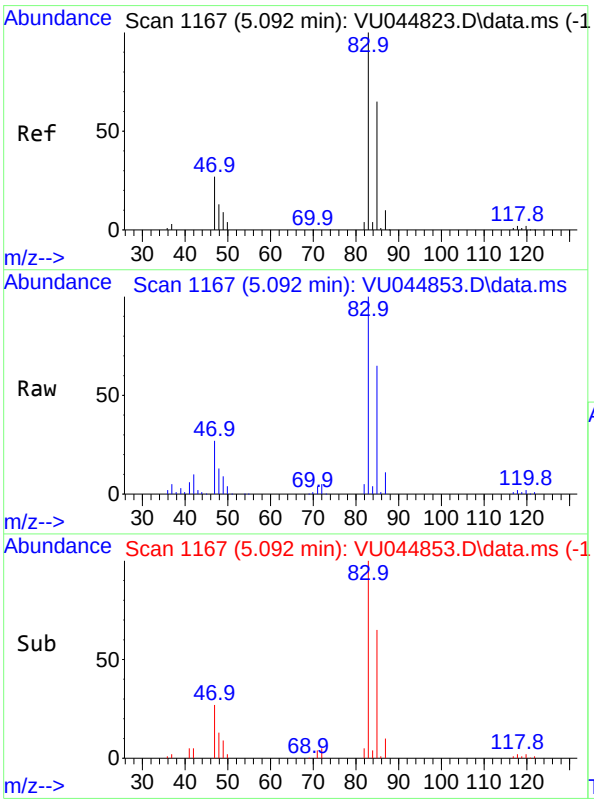


#29
Tetrahydrofuran
Concen: 244.316 ug/l
RT: 5.054 min Scan# 1155
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 42 Resp: 316964

Ion	Ratio	Lower	Upper
42	100		
72	47.3	36.2	54.4
71	43.8	34.1	51.1

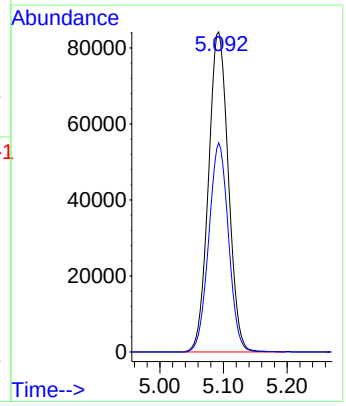




#30
Chloroform
Concen: 49.148 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 83 Resp: 182849

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.1	78.1



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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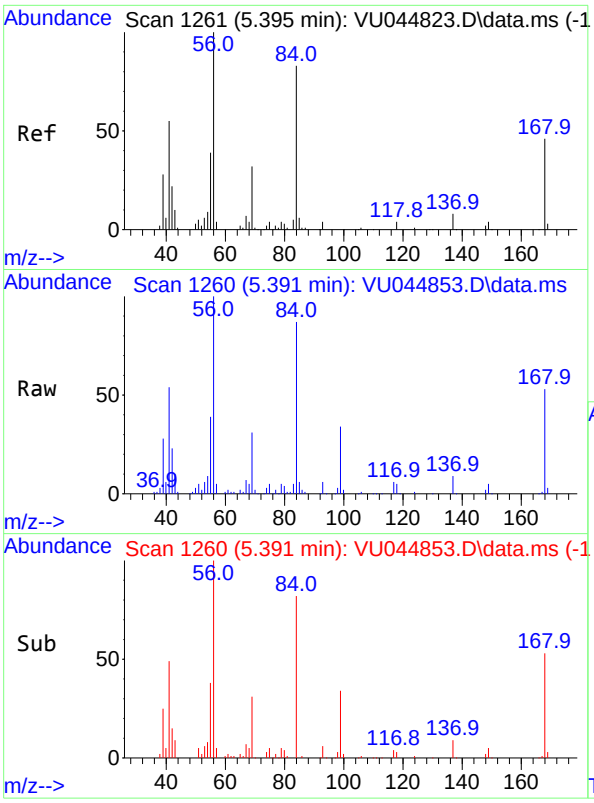
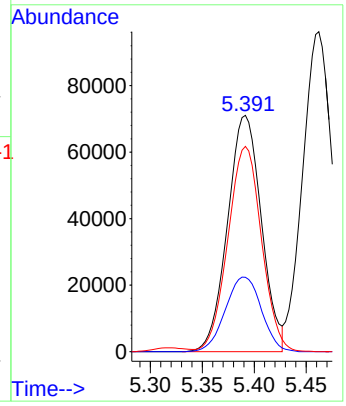
9/27/2021 11:03:05 AM

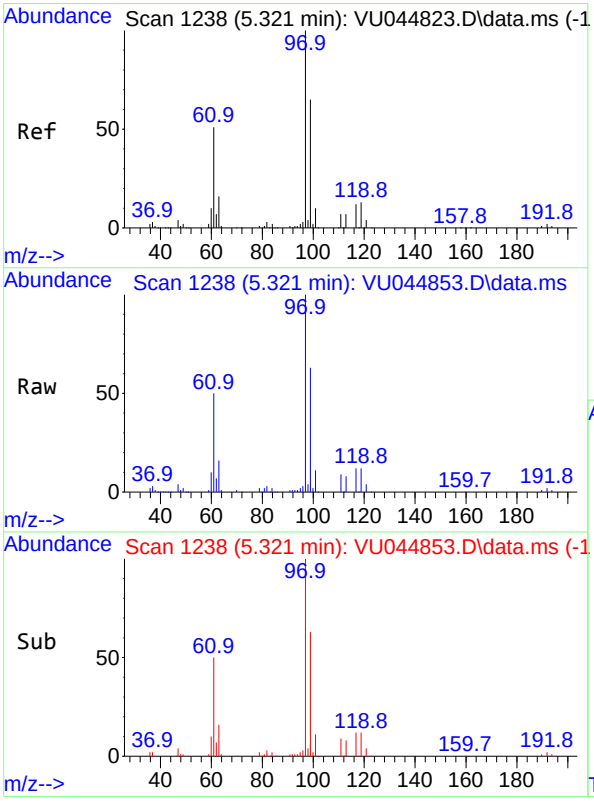


#31
Cyclohexane
Concen: 46.616 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 56 Resp: 161255

Ion	Ratio	Lower	Upper
56	100		
69	31.5	25.2	37.8
84	85.6	66.4	99.6

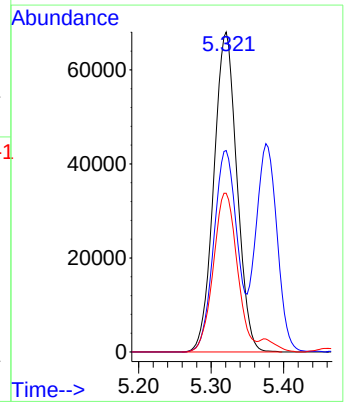




#32
1,1,1-Trichloroethane
Concen: 50.127 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 97 Resp: 150684

Ion	Ratio	Lower	Upper
97	100		
99	64.6	50.9	76.3
61	51.5	40.7	61.1



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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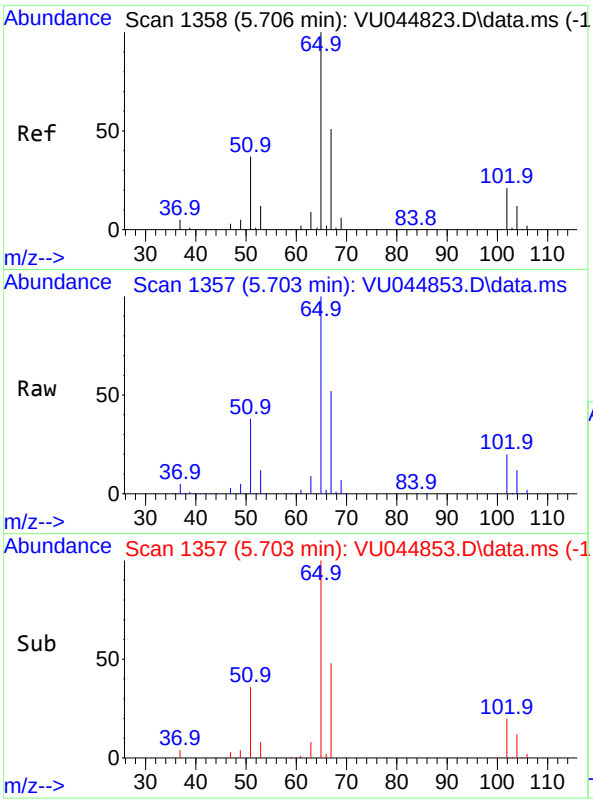
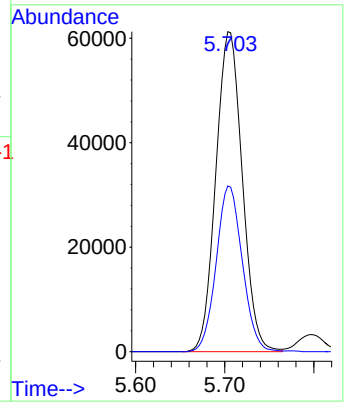
9/27/2021 11:03:05 AM

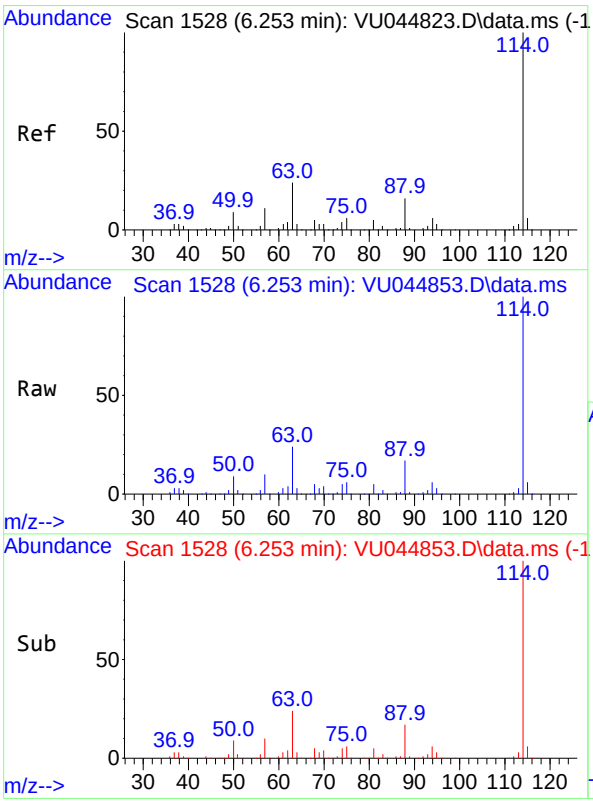


#33
1,2-Dichloroethane-d4
Concen: 52.429 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 65 Resp: 126325

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.8

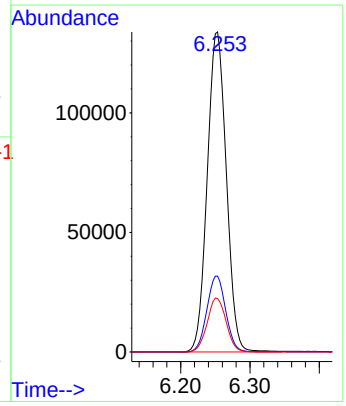




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:114 Resp: 255443

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	47.8
88	16.7	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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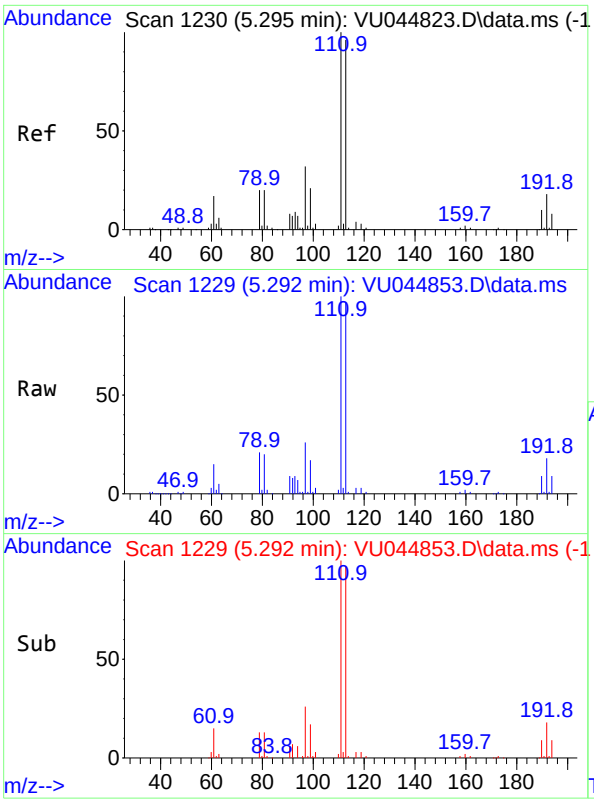
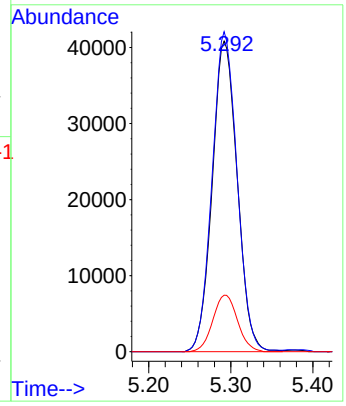
9/27/2021 11:03:05 AM

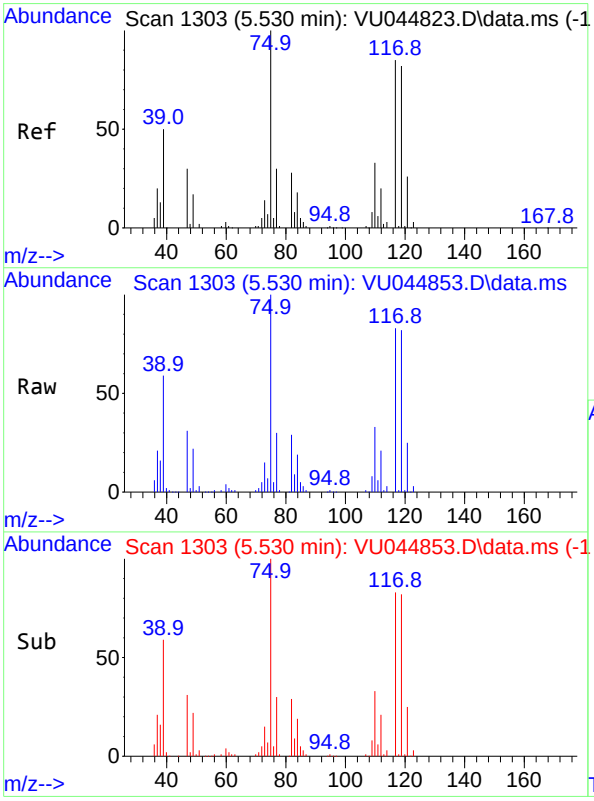


#35
Dibromofluoromethane
Concen: 49.460 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:113 Resp: 86673

Ion	Ratio	Lower	Upper
113	100		
111	102.5	84.1	126.1
192	18.0	14.8	22.2

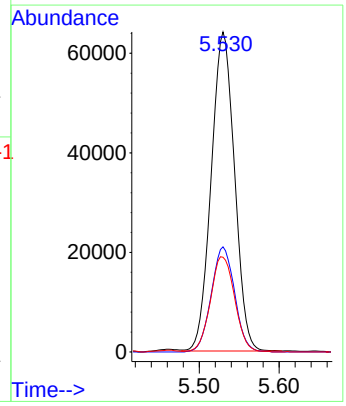




#36
1,1-Dichloropropene
Concen: 47.838 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 75 Resp: 129655

Ion	Ratio	Lower	Upper
75	100		
110	33.1	16.3	48.9
77	31.2	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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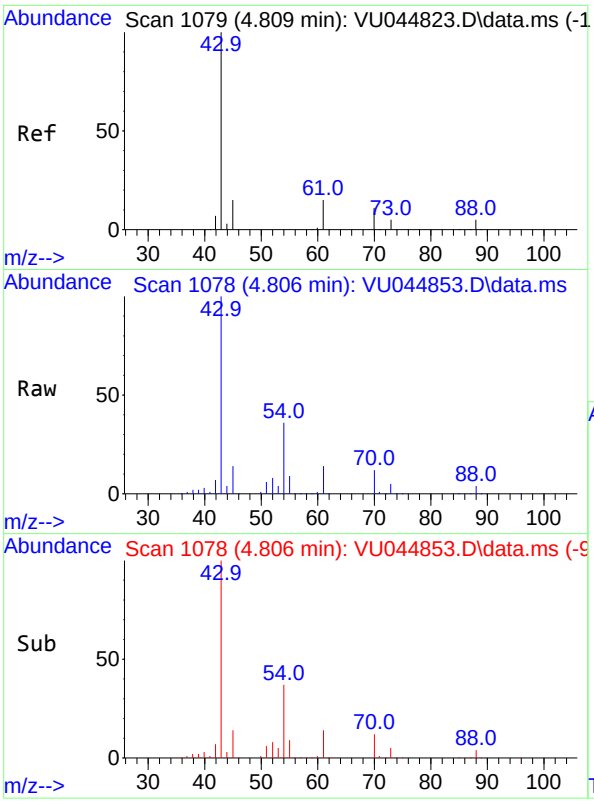
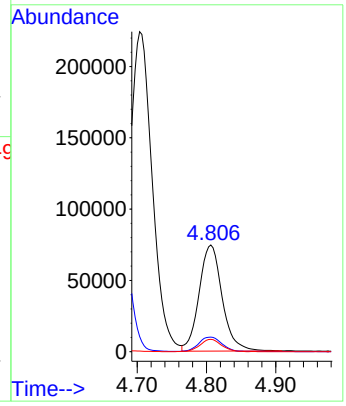
9/27/2021 11:03:05 AM

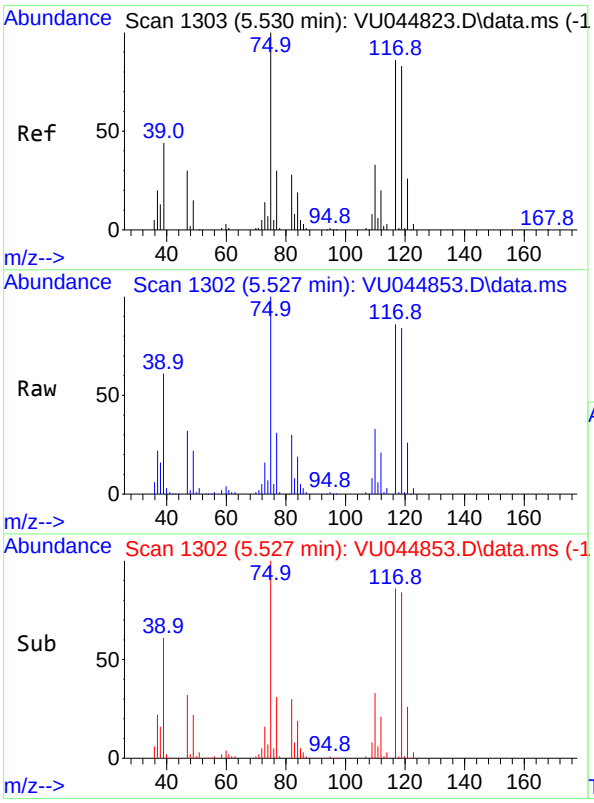


#37
Ethyl Acetate
Concen: 43.297 ug/l
RT: 4.806 min Scan# 1078
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 172184

Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.9	16.3
70	10.9	8.2	12.4

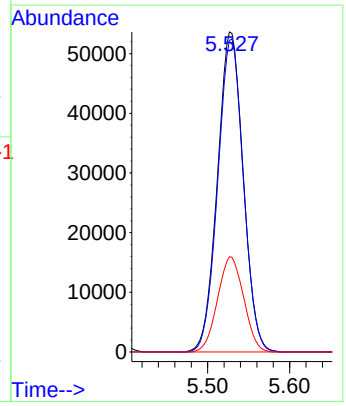




#38
Carbon Tetrachloride
Concen: 48.393 ug/l
RT: 5.527 min Scan# 1302
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:117 Resp: 117257

Ion	Ratio	Lower	Upper
117	100		
119	97.4	77.4	116.2
121	29.8	24.5	36.7



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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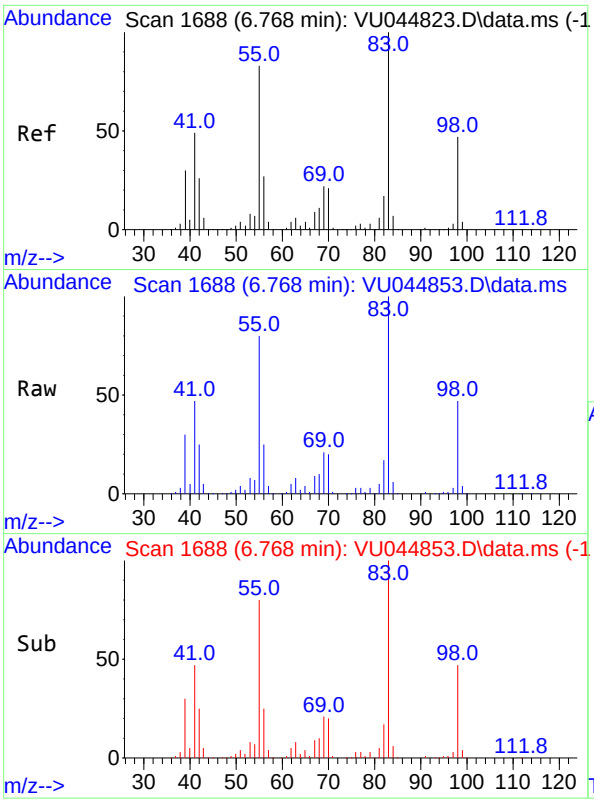
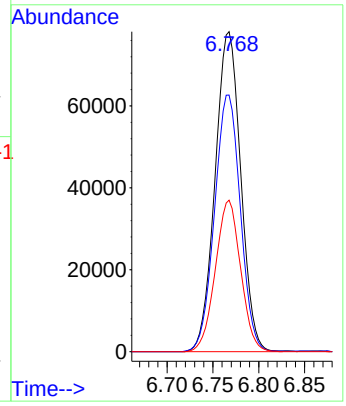
9/27/2021 11:03:05 AM

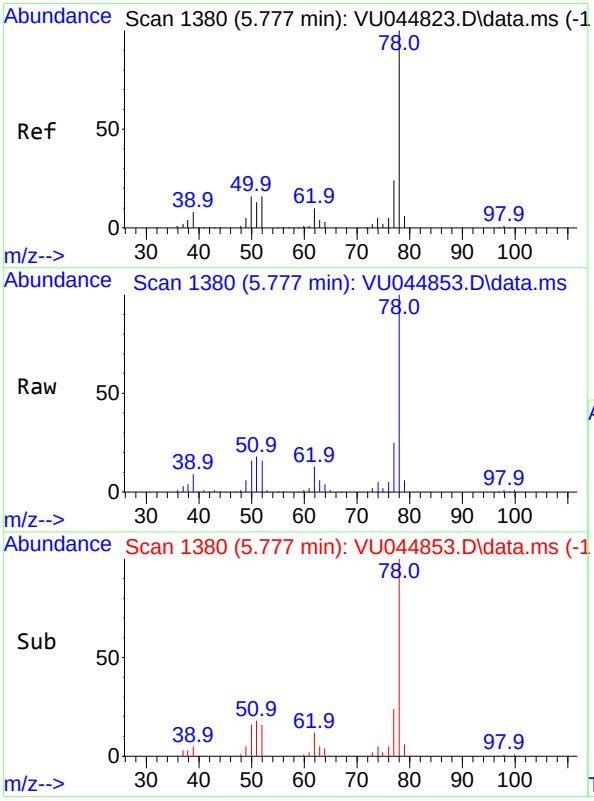


#39
Methylcyclohexane
Concen: 49.572 ug/l
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 83 Resp: 151958

Ion	Ratio	Lower	Upper
83	100		
55	80.2	66.2	99.4
98	47.4	37.5	56.3

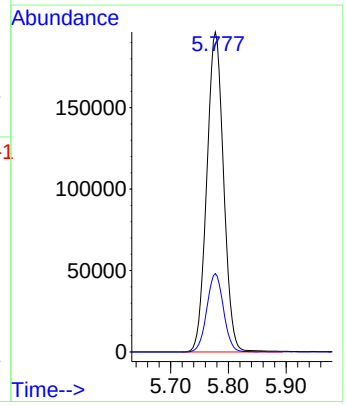




#40
Benzene
Concen: 48.072 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 78 Resp: 397234

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.1	28.7



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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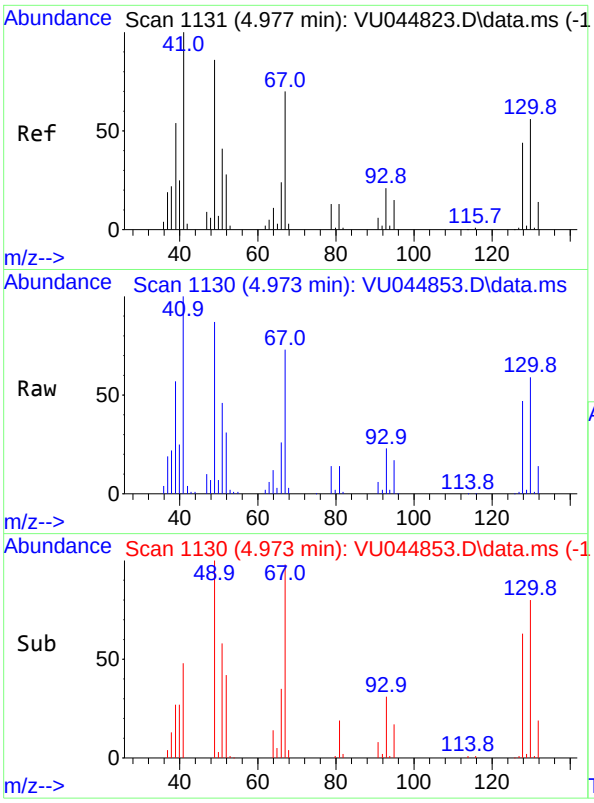
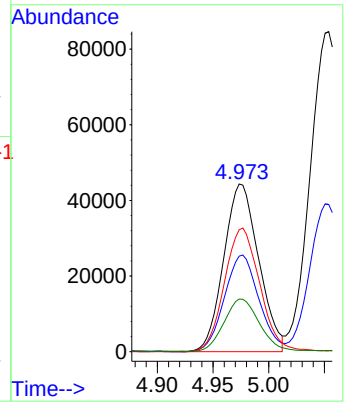
9/27/2021 11:03:05 AM

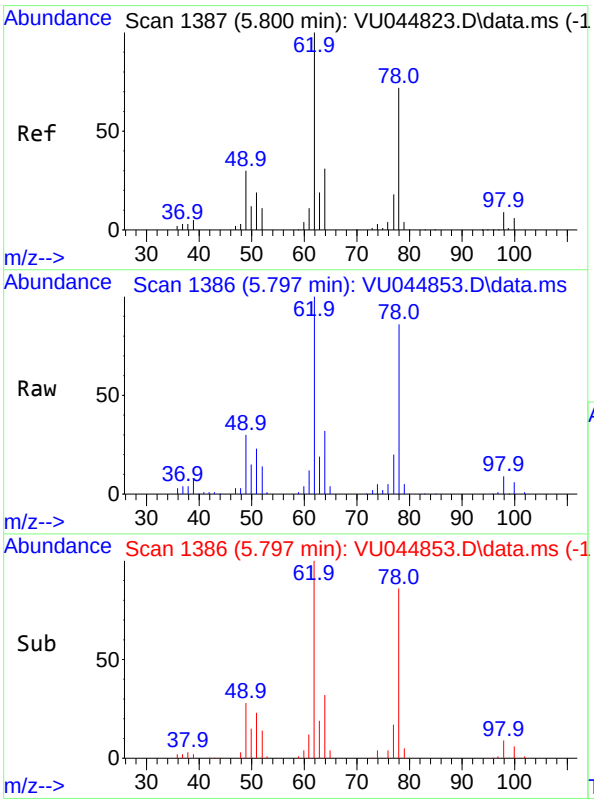


#41
Methacrylonitrile
Concen: 48.841 ug/l
RT: 4.973 min Scan# 1130
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 41 Resp: 96950

Ion	Ratio	Lower	Upper
41	100		
39	57.5	44.4	66.6
67	74.7	58.1	87.1
52	31.6	23.8	35.8

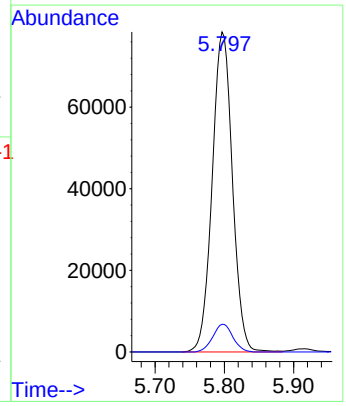




#42
1,2-Dichloroethane
Concen: 48.886 ug/l
RT: 5.797 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 62 Resp: 158923

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.8



Instrument :
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ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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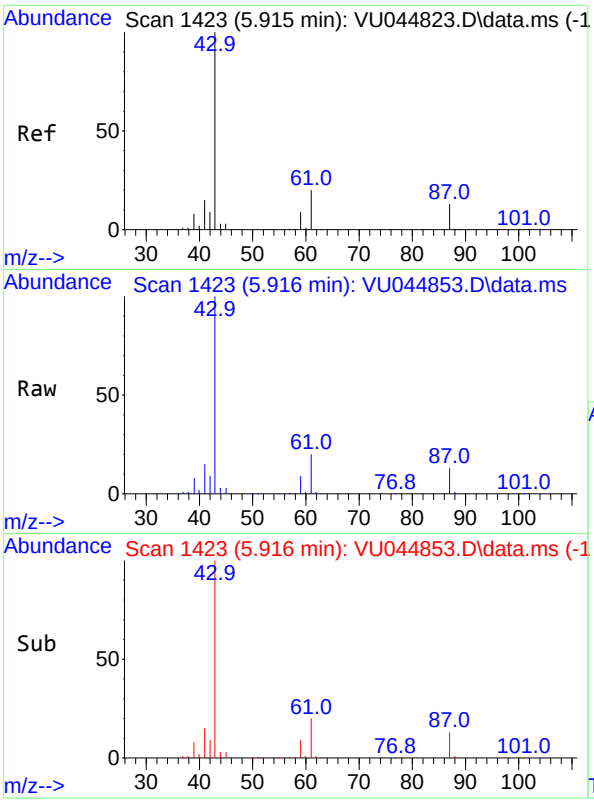
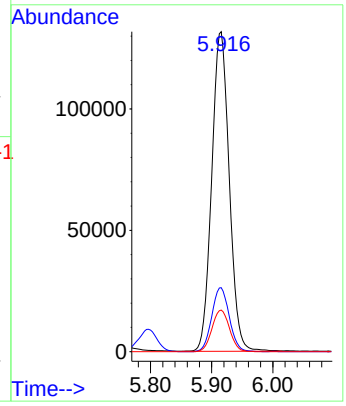
9/27/2021 11:03:05 AM

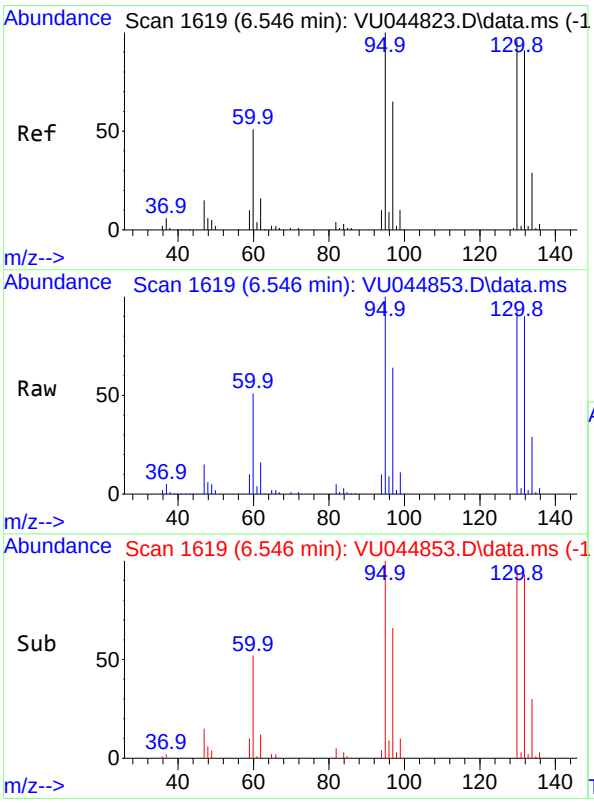


#43
Isopropyl Acetate
Concen: 47.106 ug/l
RT: 5.916 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 262086

Ion	Ratio	Lower	Upper
43	100		
61	20.1	16.1	24.1
87	13.0	10.3	15.5

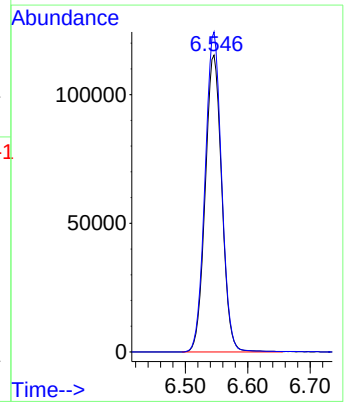




#44
Trichloroethene
Concen: 107.403 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:130 Resp: 213299

Ion	Ratio	Lower	Upper
130	100		
95	107.8	0.0	209.0



Instrument :
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ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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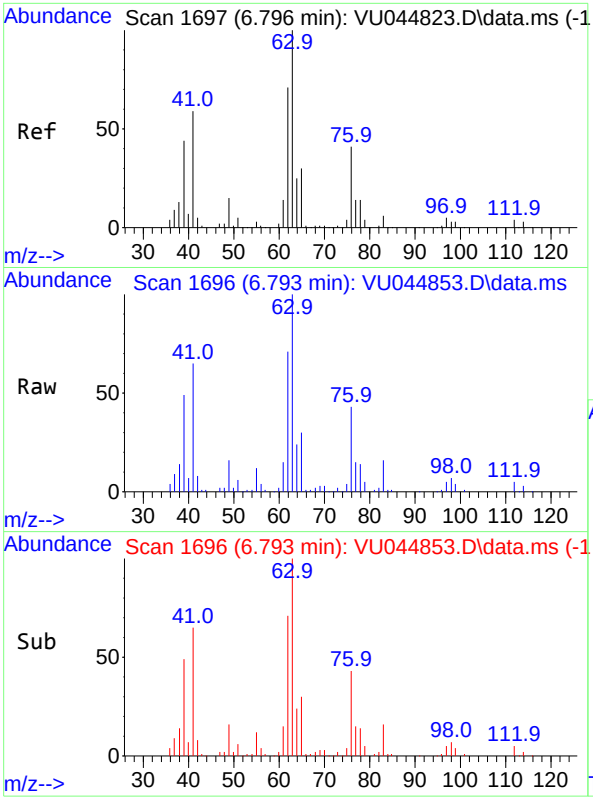
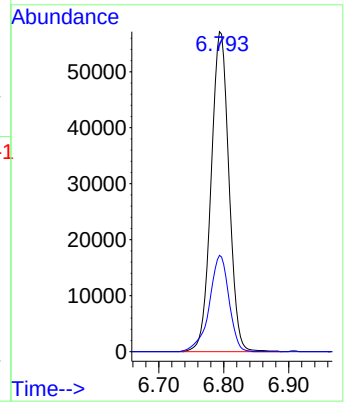
9/27/2021 11:03:05 AM

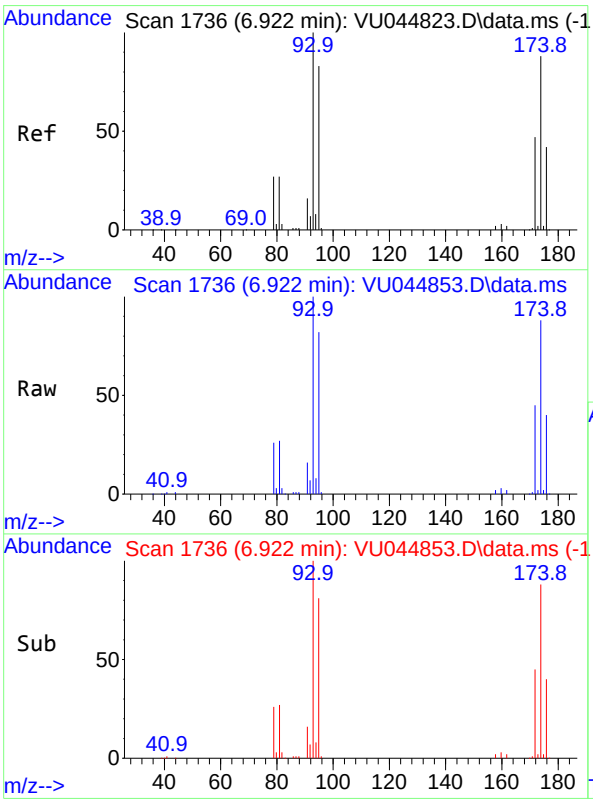


#45
1,2-Dichloropropane
Concen: 48.694 ug/l
RT: 6.793 min Scan# 1696
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 63 Resp: 108898

Ion	Ratio	Lower	Upper
63	100		
65	30.1	23.9	35.9

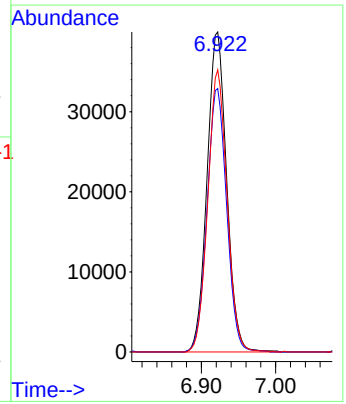




#46
Dibromomethane
Concen: 49.244 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 93 Resp: 72973

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.6	98.4
174	86.8	70.7	106.1



Instrument :
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ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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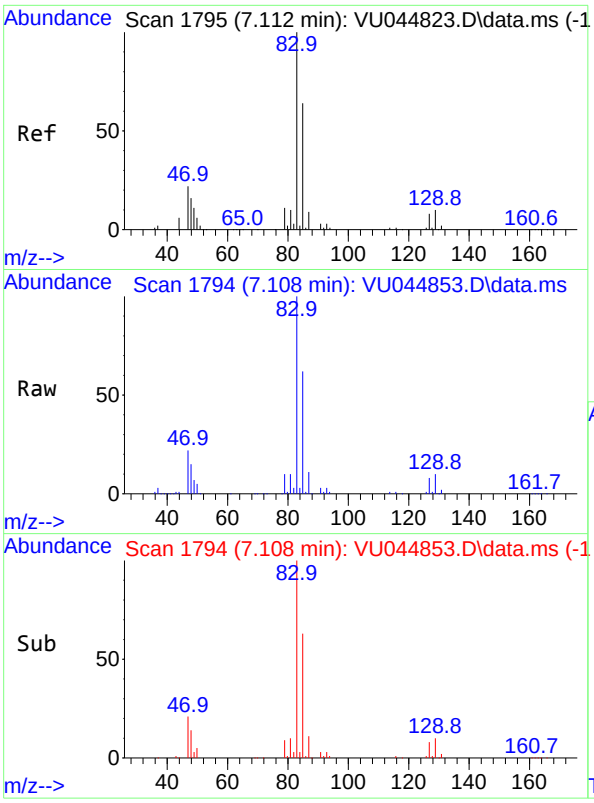
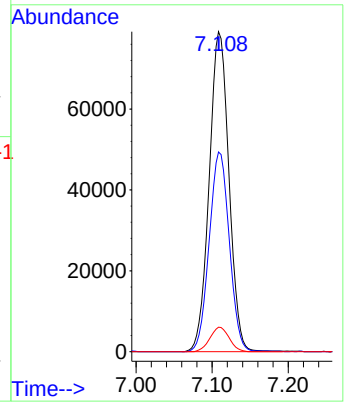
9/27/2021 11:03:05 AM

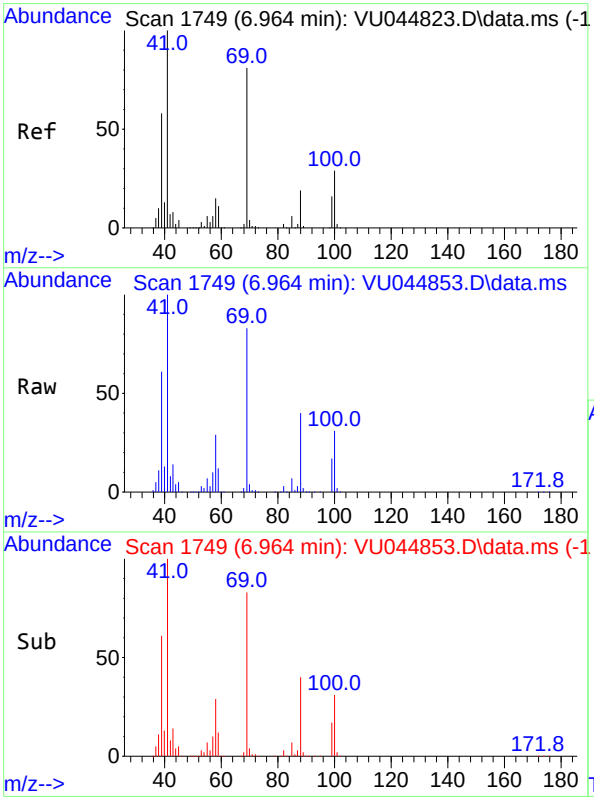


#47
Bromodichloromethane
Concen: 48.824 ug/l
RT: 7.108 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 83 Resp: 142714

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.6	77.4
127	7.6	6.2	9.4

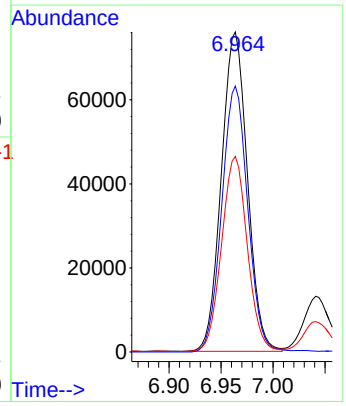




#48
Methyl methacrylate
Concen: 50.426 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 41 Resp: 132421

Ion	Ratio	Lower	Upper
41	100		
69	83.2	65.6	98.4
39	60.4	46.2	69.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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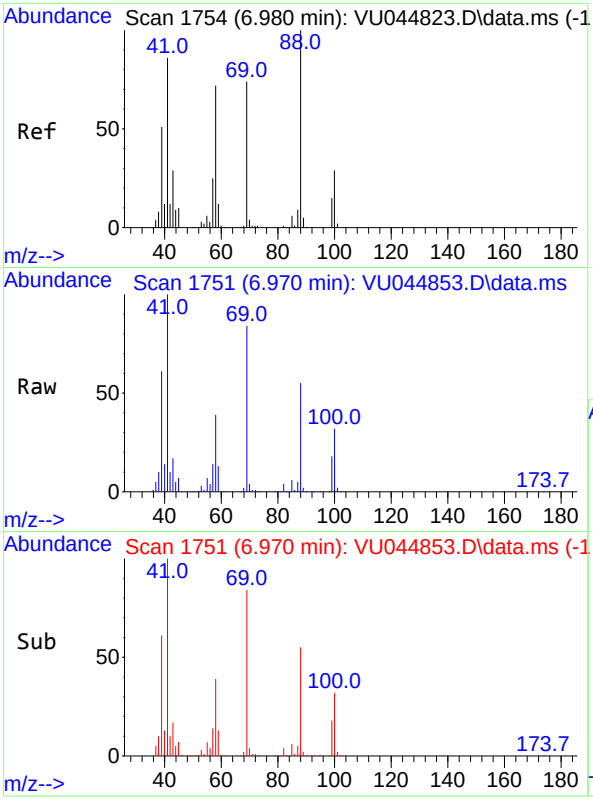
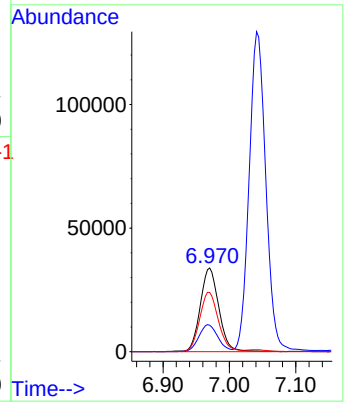
9/27/2021 11:03:05 AM

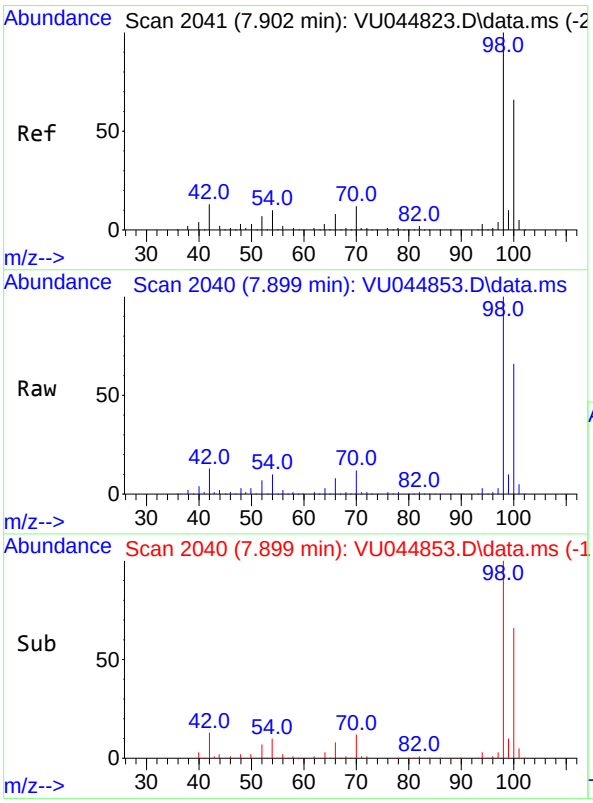


#49
1,4-Dioxane
Concen: 981.105 ug/l
RT: 6.970 min Scan# 1751
Delta R.T. -0.010 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 88 Resp: 65847

Ion	Ratio	Lower	Upper
88	100		
43	33.3	25.8	38.6
58	71.7	61.3	91.9

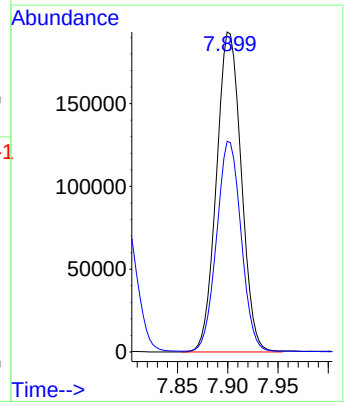




#50
Toluene-d8
Concen: 50.193 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 98 Resp: 332196

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
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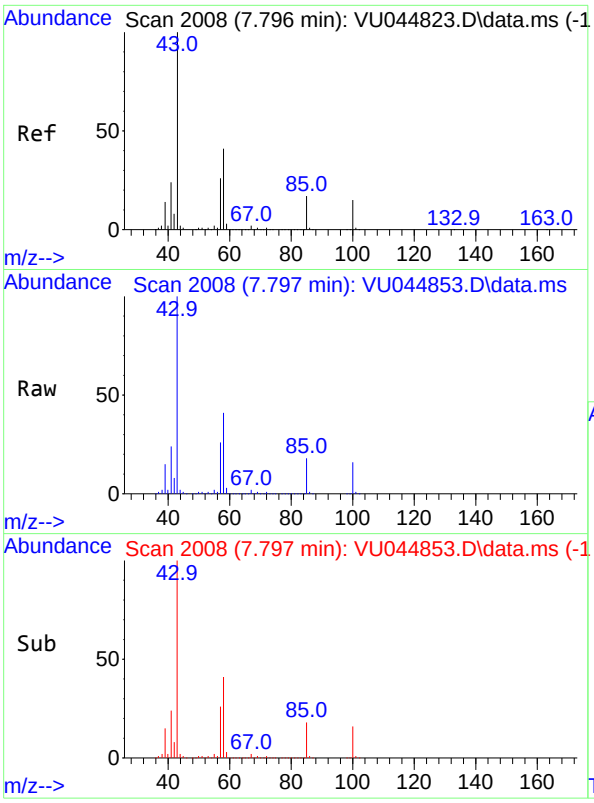
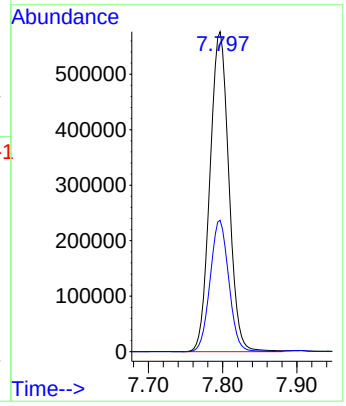
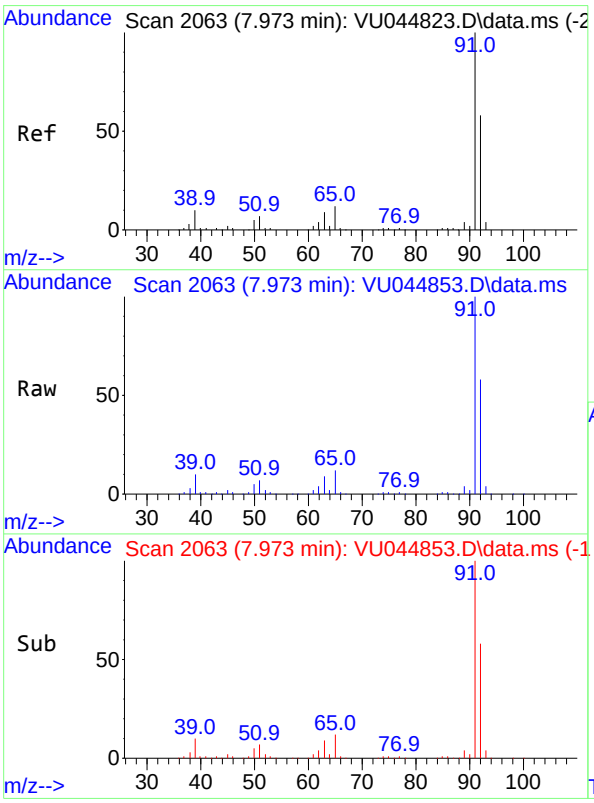


#51
4-Methyl-2-Pentanone
Concen: 256.360 ug/l
RT: 7.797 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 1016533

Ion	Ratio	Lower	Upper
43	100		
58	40.6	32.4	48.6

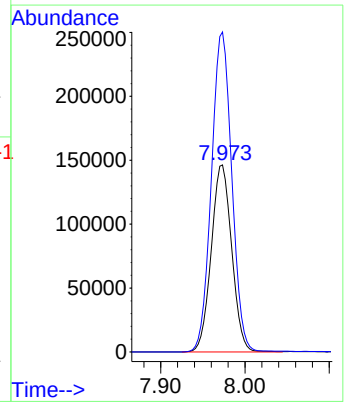




#52
Toluene
Concen: 50.030 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 92 Resp: 247162

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.9	205.3



Instrument :
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ClientSampleId :
1028-MW-02MS

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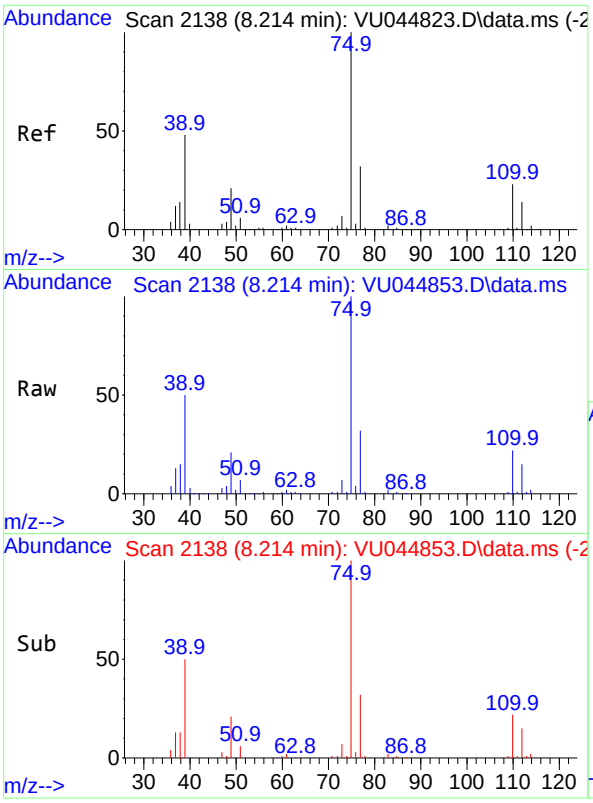
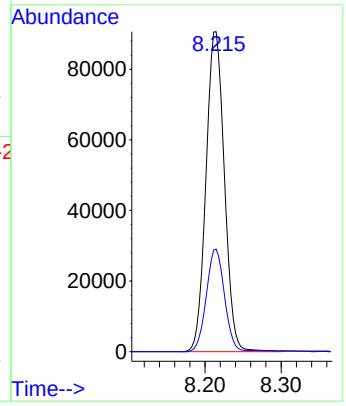
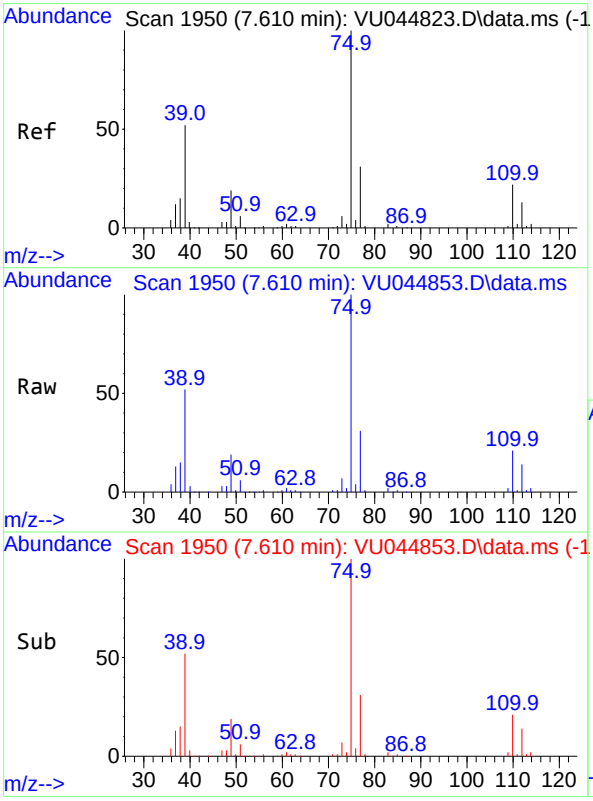


#53
t-1,3-Dichloropropene
Concen: 50.000 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 75 Resp: 152267

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.6	38.4

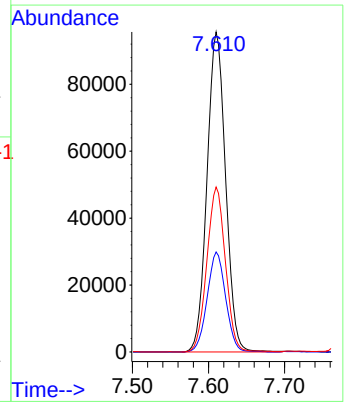




#54
cis-1,3-Dichloropropene
Concen: 49.184 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 75 Resp: 162209

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6
39	51.6	41.4	62.2



Instrument :
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ClientSampleId :
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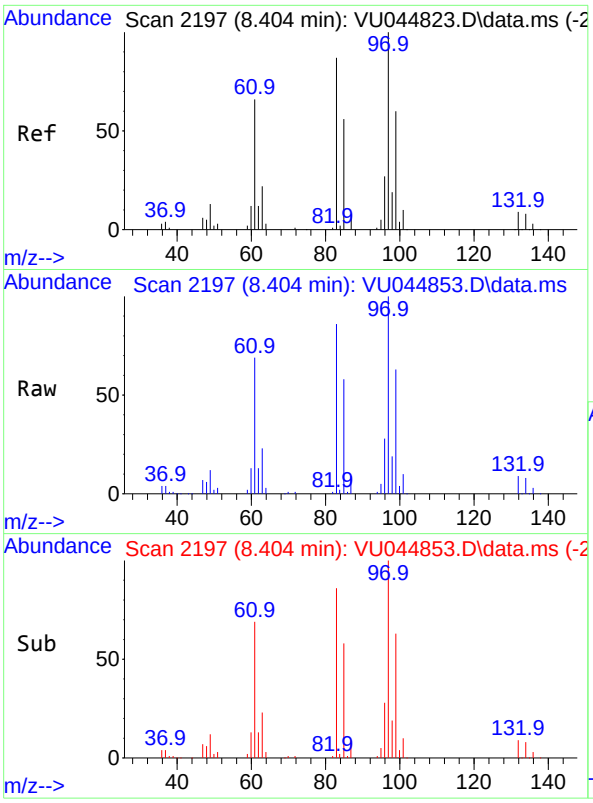
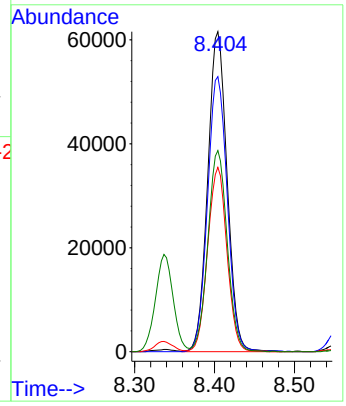
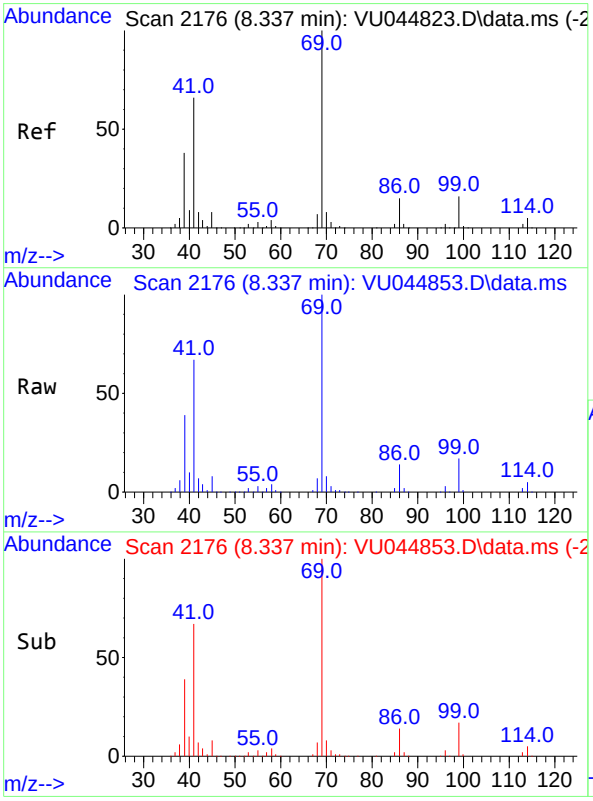


#55
1,1,2-Trichloroethane
Concen: 49.126 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 97 Resp: 103765

Ion	Ratio	Lower	Upper
97	100		
83	86.0	69.7	104.5
85	57.6	44.8	67.2
99	62.8	49.3	73.9

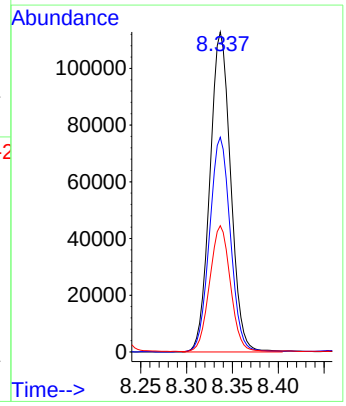




#56
Ethyl methacrylate
Concen: 47.344 ug/l
RT: 8.337 min Scan# 2176
Delta R.T. -0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 69 Resp: 177734

Ion	Ratio	Lower	Upper
69	100		
41	67.7	53.5	80.3
39	39.2	31.1	46.7



Instrument :
MSVOA_U
ClientSampleId :
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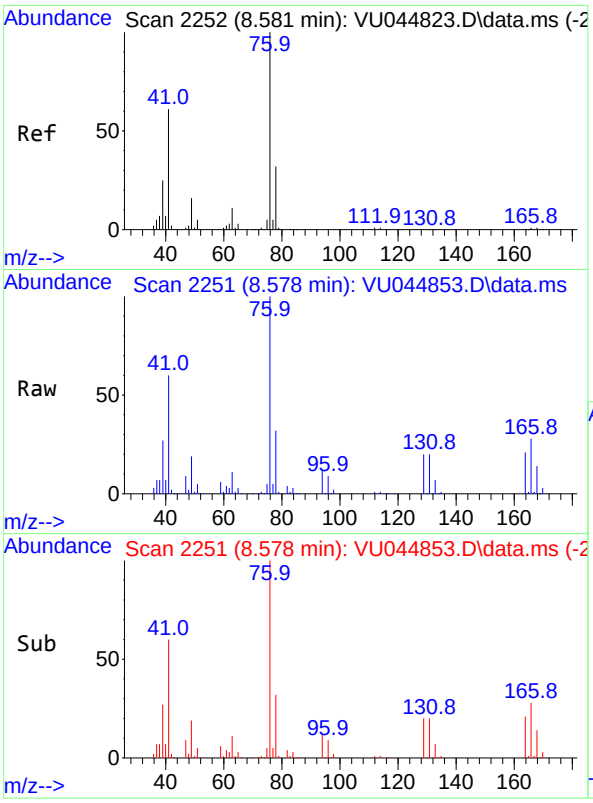
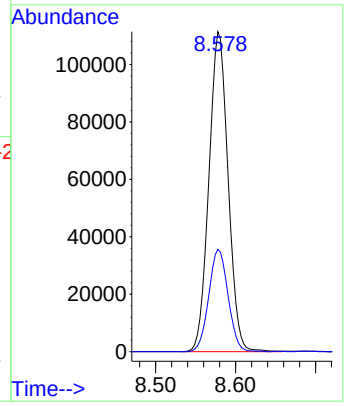
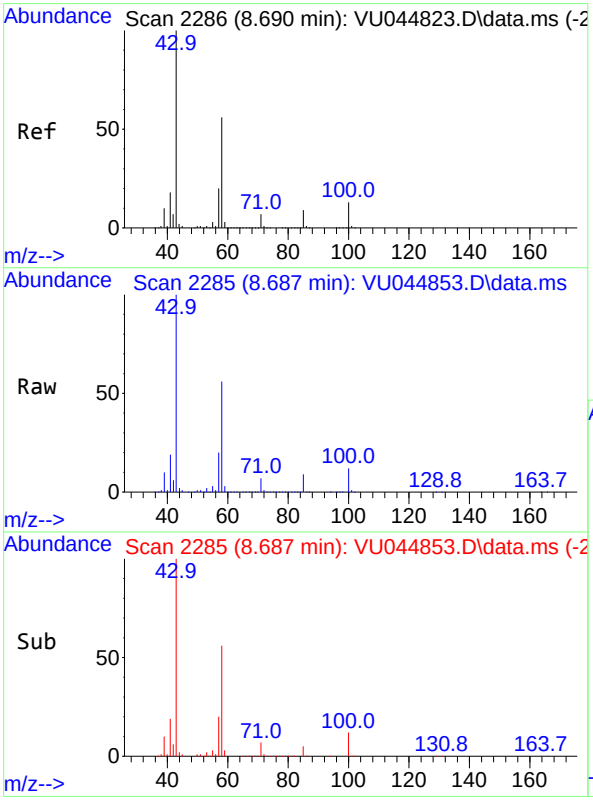


#57
1,3-Dichloropropane
Concen: 49.362 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 76 Resp: 185657

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.7	38.5

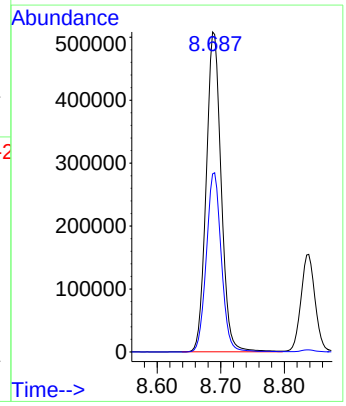




#59
2-Hexanone
Concen: 261.037 ug/l
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 830846

Ion	Ratio	Lower	Upper
43	100		
58	56.3	28.0	84.0



Instrument :
MSVOA_U
ClientSampleId :
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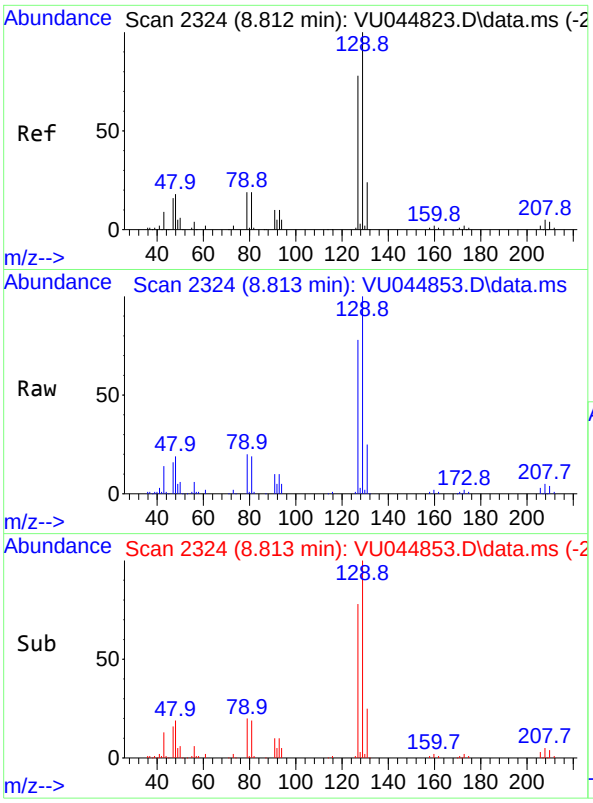
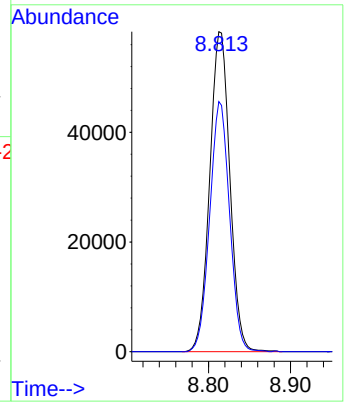
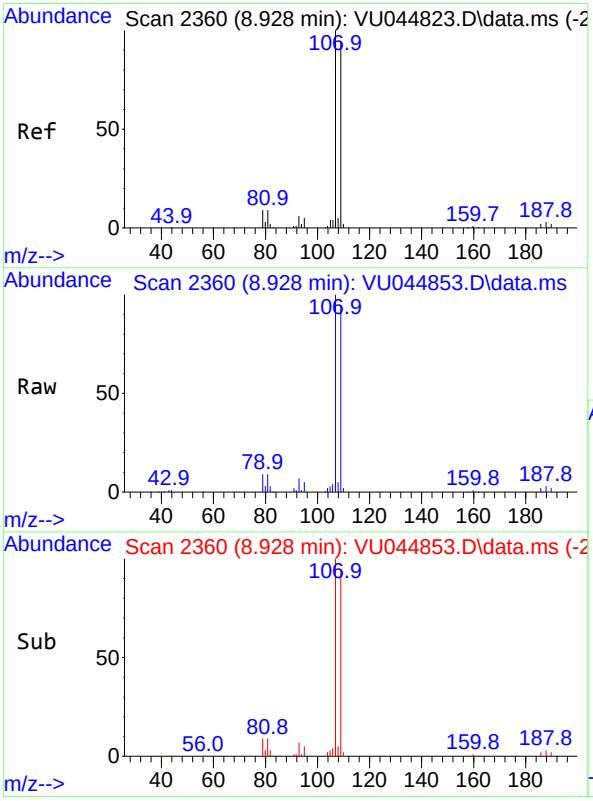


#60
Dibromochloromethane
Concen: 49.259 ug/l
RT: 8.813 min Scan# 2324
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:129 Resp: 99634

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.0	117.0

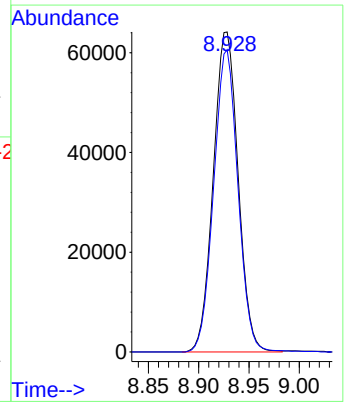




#61
1,2-Dibromoethane
Concen: 49.605 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:107 Resp: 110015

Ion	Ratio	Lower	Upper
107	100		
109	92.4	74.8	112.2



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations APPROVED
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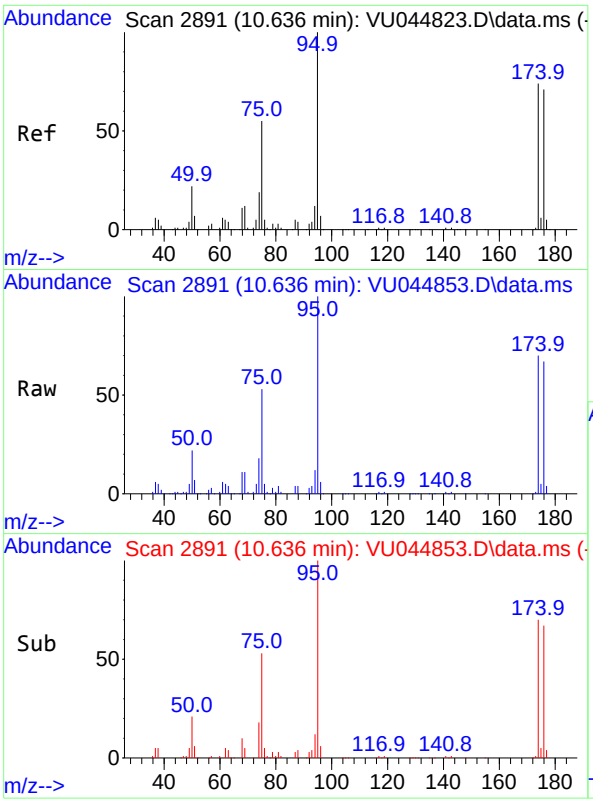
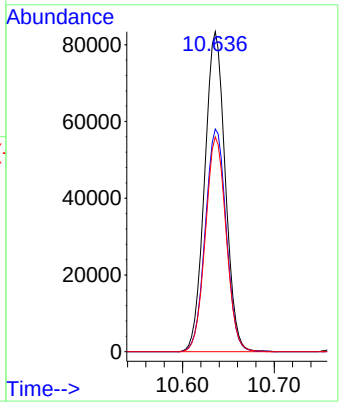
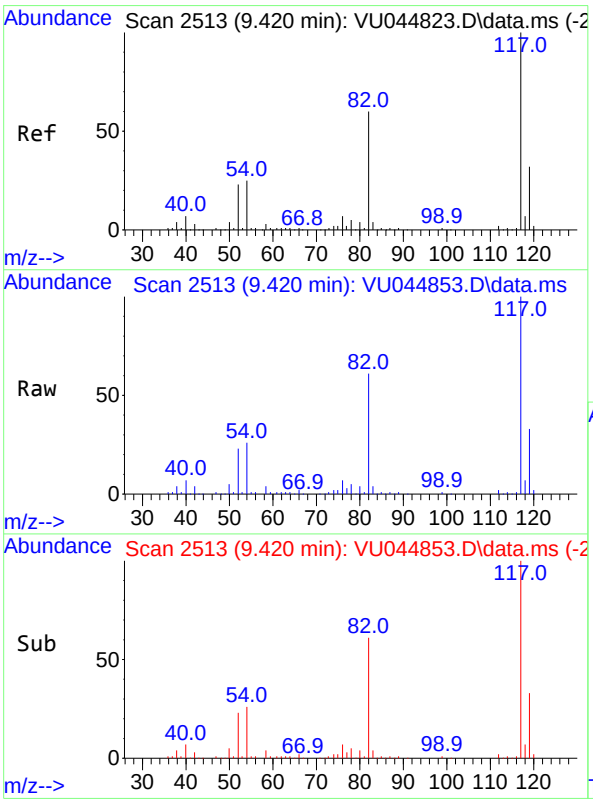


#62
4-Bromofluorobenzene
Concen: 53.033 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 95 Resp: 130365

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	146.6
176	67.4	0.0	141.2

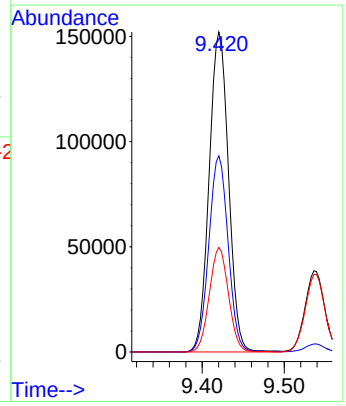




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:117 Resp: 249499

Ion	Ratio	Lower	Upper
117	100		
82	61.3	47.8	71.8
119	32.7	25.8	38.6



Instrument :
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ClientSampleId :
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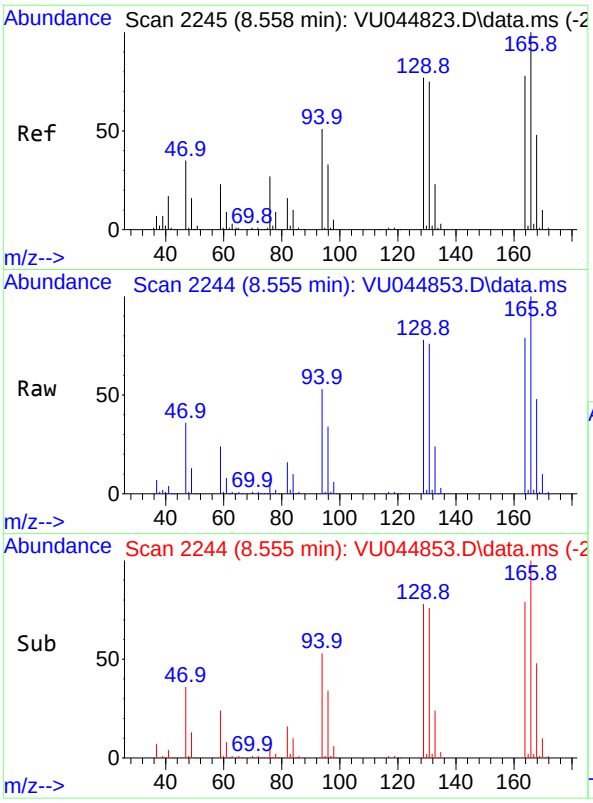
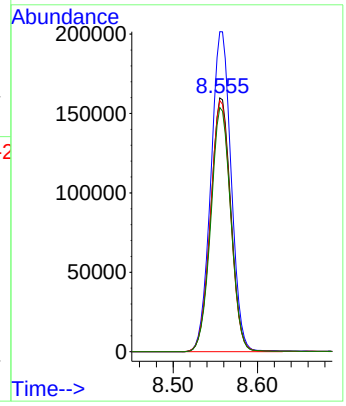
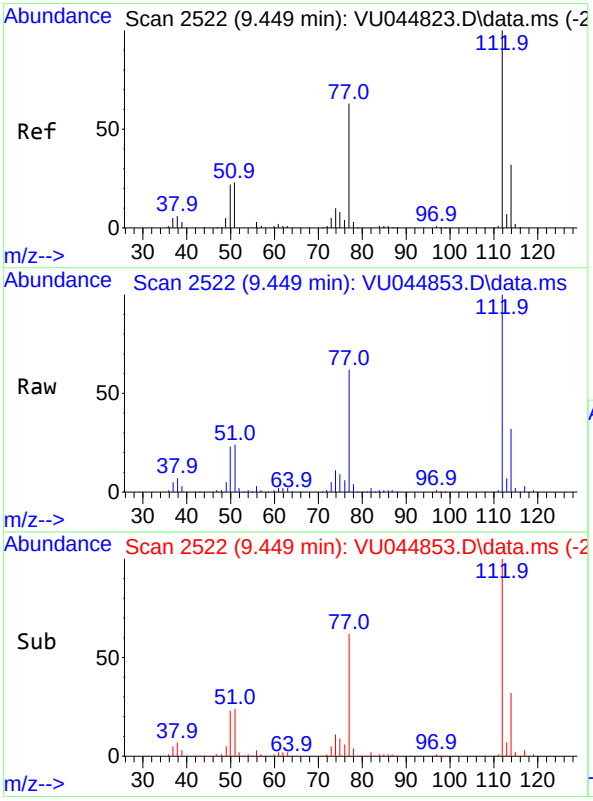


#64
Tetrachloroethene
Concen: 157.751 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:164 Resp: 266781

Ion	Ratio	Lower	Upper
164	100		
166	126.1	102.8	154.2
129	98.9	79.4	119.2
131	96.2	77.4	116.2

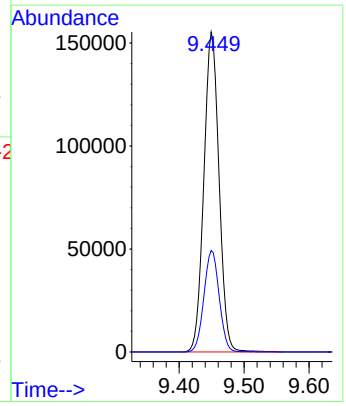




#65
Chlorobenzene
Concen: 48.829 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:112 Resp: 252911

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.9	38.9



Instrument :
MSVOA_U
ClientSampleId :
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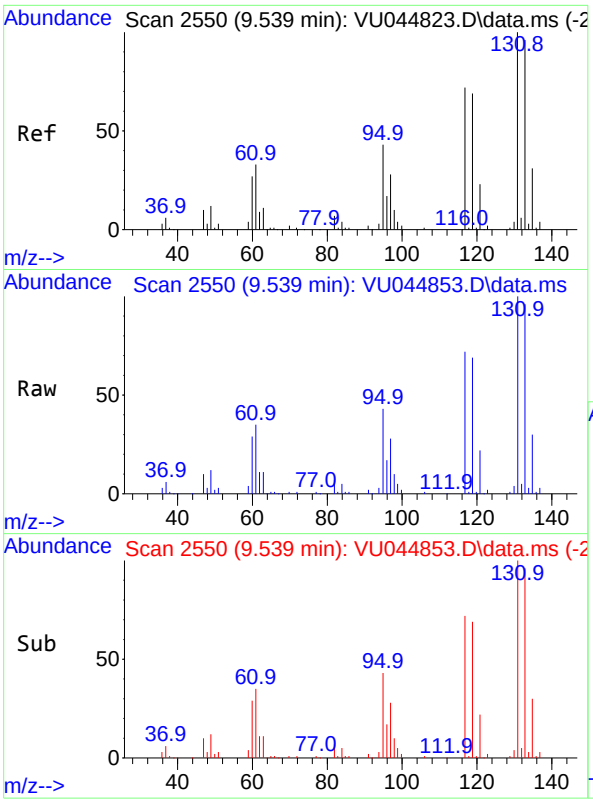
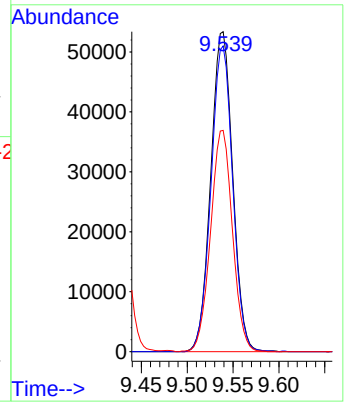
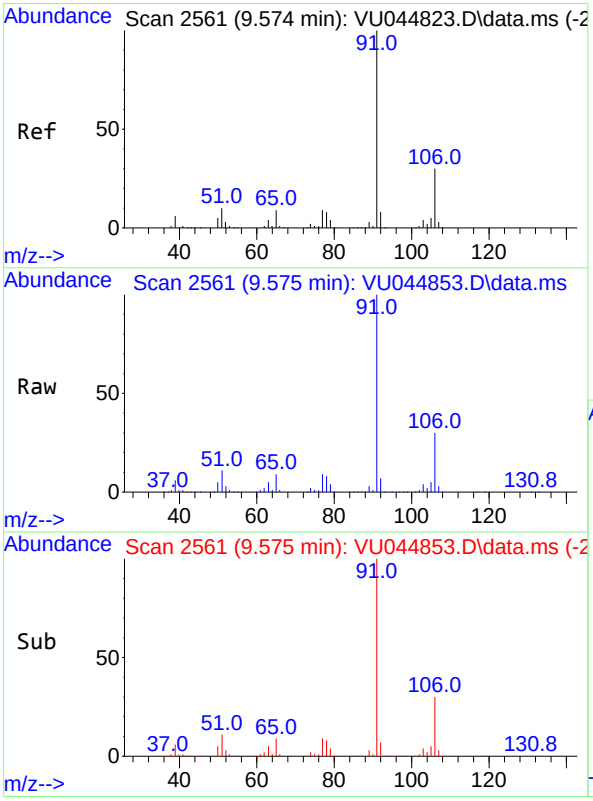


#66
1,1,1,2-Tetrachloroethane
Concen: 48.098 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:131 Resp: 88857

Ion	Ratio	Lower	Upper
131	100		
133	94.6	48.1	144.3
119	69.1	34.1	102.3

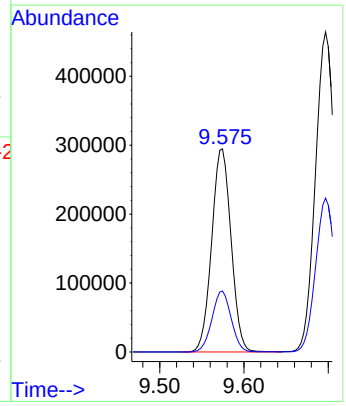




#67
Ethyl Benzene
Concen: 51.005 ug/l
RT: 9.575 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 91 Resp: 471533

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.3	36.5



Instrument :
MSVOA_U
ClientSampleId :
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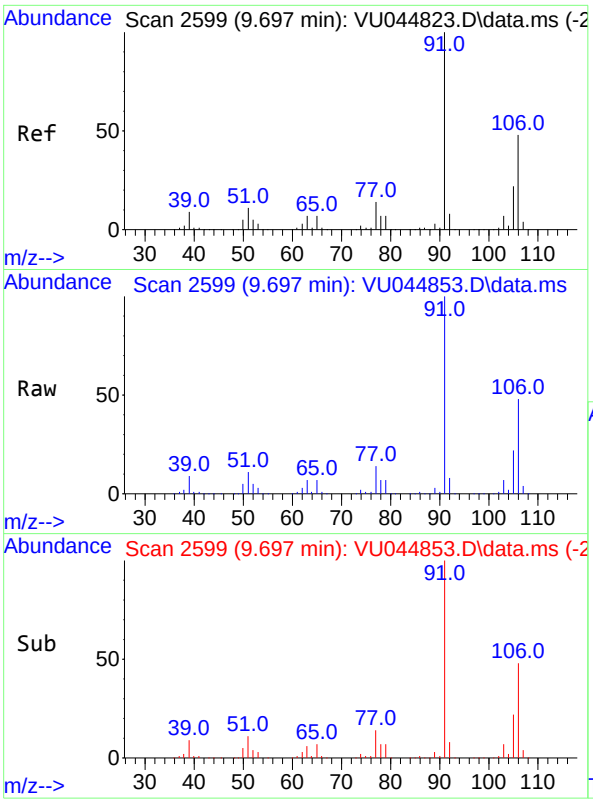
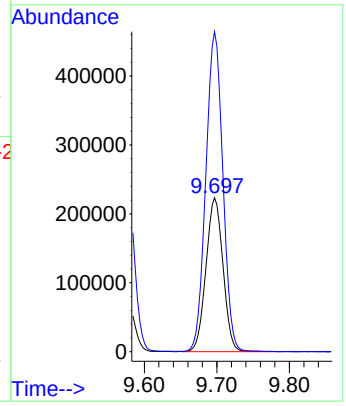
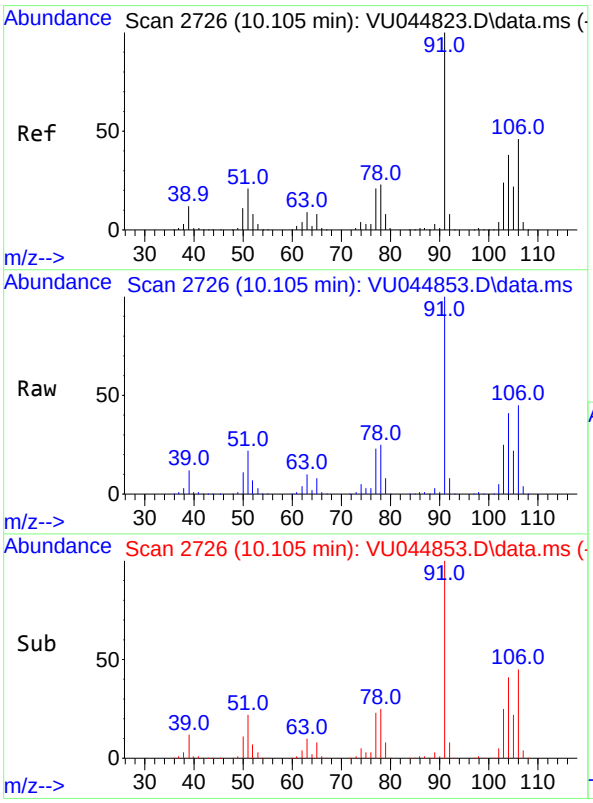


#68
m/p-Xylenes
Concen: 102.967 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:106 Resp: 364077

Ion	Ratio	Lower	Upper
106	100		
91	208.3	164.2	246.2

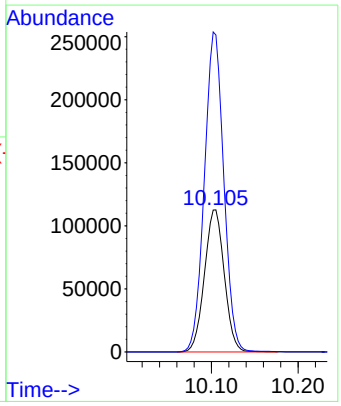




#69
o-Xylene
Concen: 52.330 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:106 Resp: 178919

Ion	Ratio	Lower	Upper
106	100		
91	220.7	108.9	326.7



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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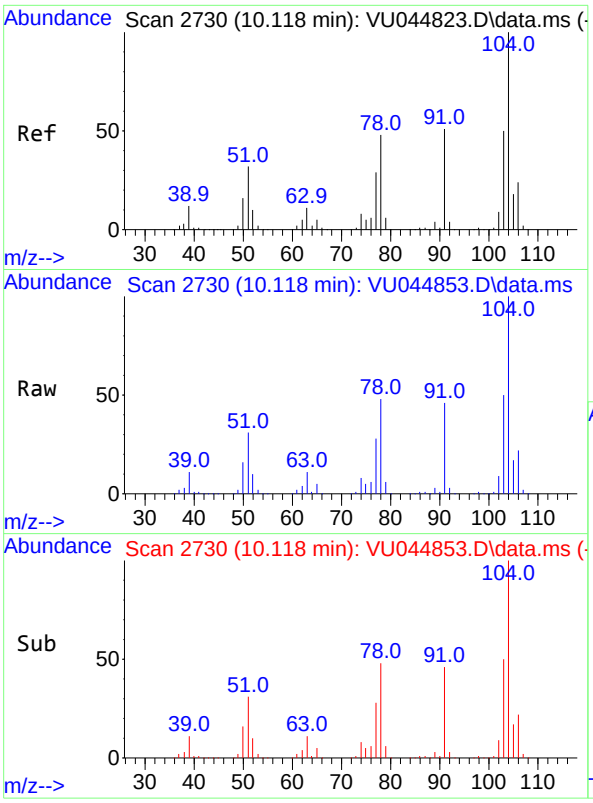
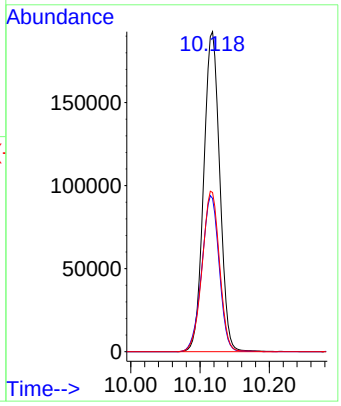
9/27/2021 11:03:05 AM

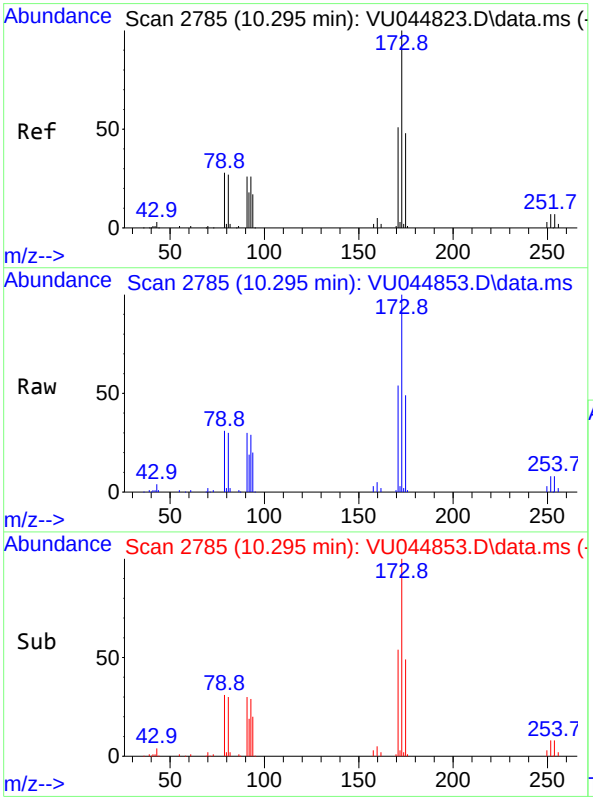


#70
Styrene
Concen: 48.506 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:104 Resp: 309774

Ion	Ratio	Lower	Upper
104	100		
78	52.7	41.4	62.0
103	54.1	43.5	65.3

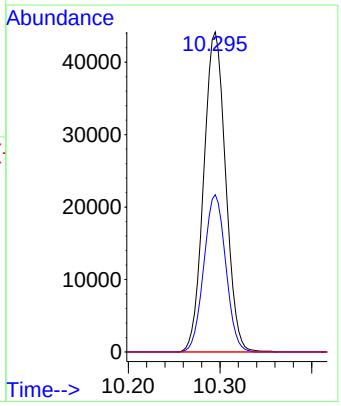




#71
Bromoform
Concen: 47.951 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:173 Resp: 73298

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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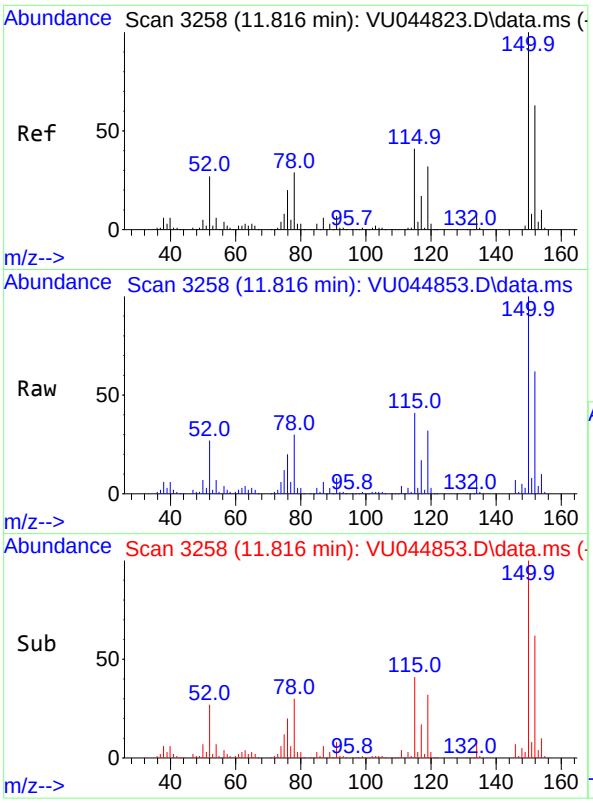
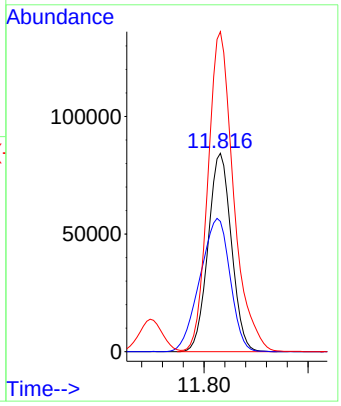
9/27/2021 11:03:05 AM

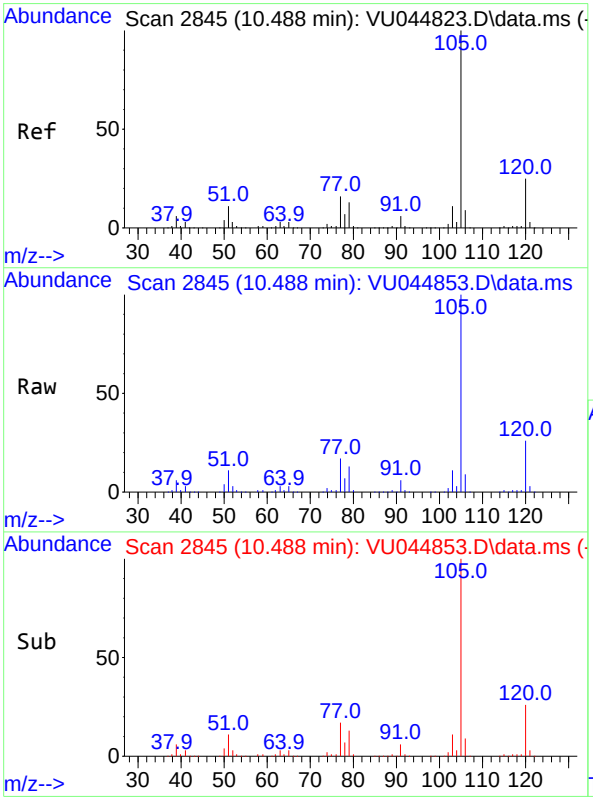


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:152 Resp: 131417

Ion	Ratio	Lower	Upper
152	100		
115	86.7	43.5	130.7
150	177.0	0.0	350.0

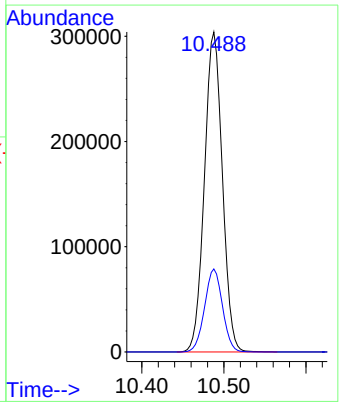




#73
Isopropylbenzene
Concen: 49.439 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:105 Resp: 461137

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.3



Instrument :
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ClientSampleId :
1028-MW-02MS

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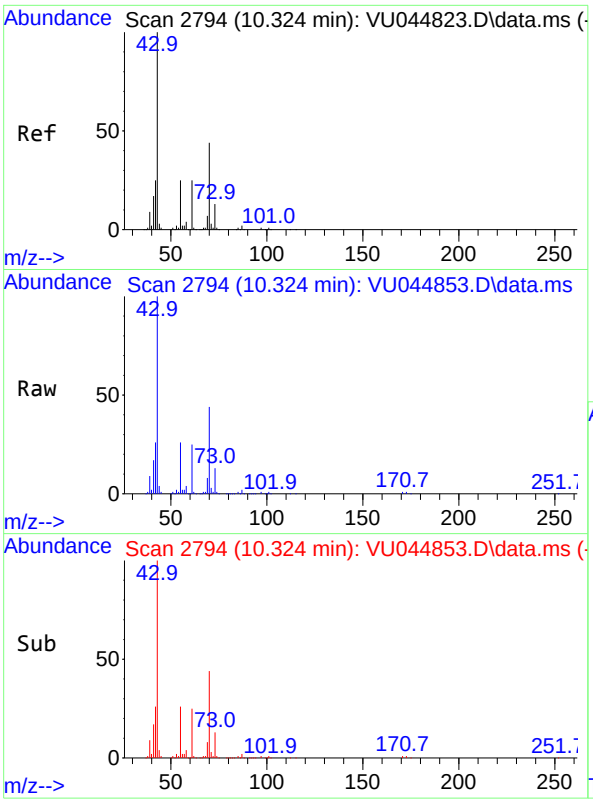
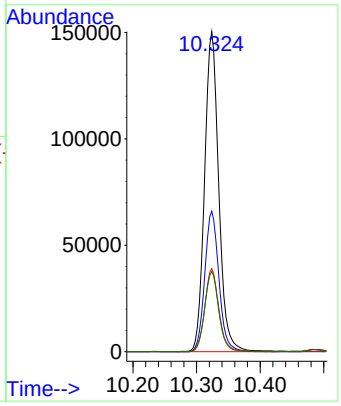
9/27/2021 11:03:05 AM

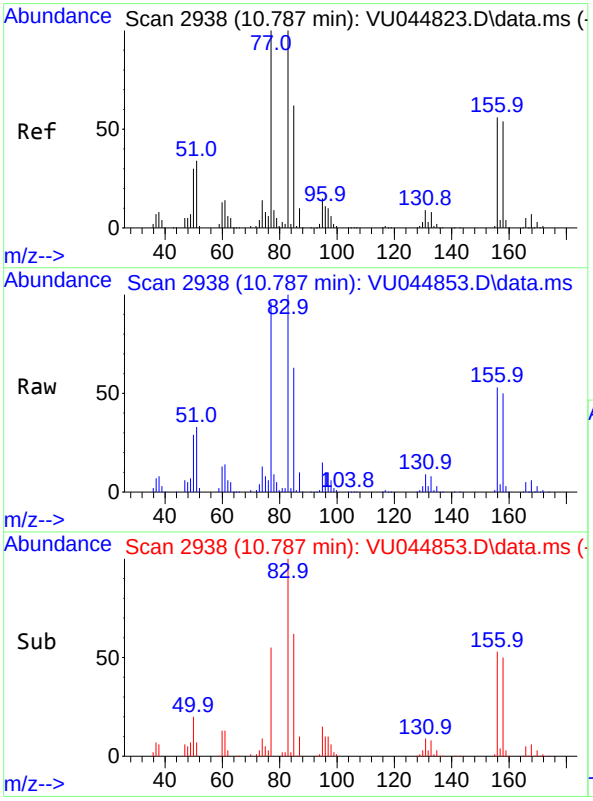


#74
N-amyl acetate
Concen: 48.951 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 43 Resp: 232714

Ion	Ratio	Lower	Upper
43	100		
70	43.9	35.1	52.7
55	25.9	20.5	30.7
61	24.8	19.6	29.4

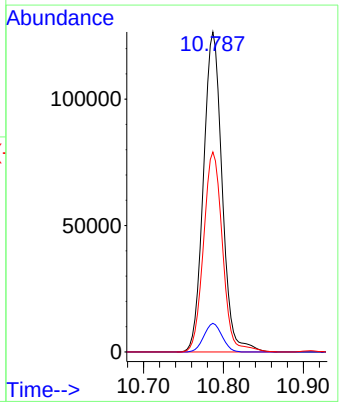




#75
1,1,2,2-Tetrachloroethane
Concen: 48.442 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 83 Resp: 205847

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.3	13.1
85	63.5	31.9	95.5



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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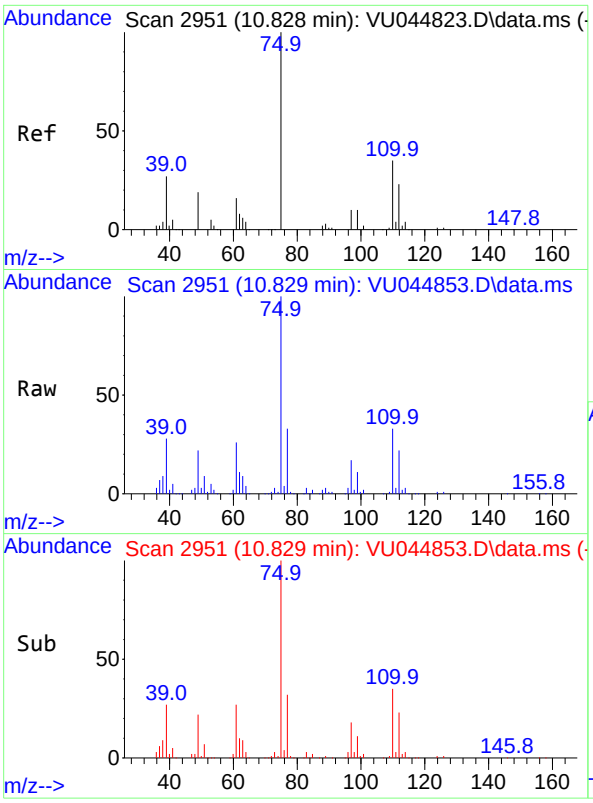
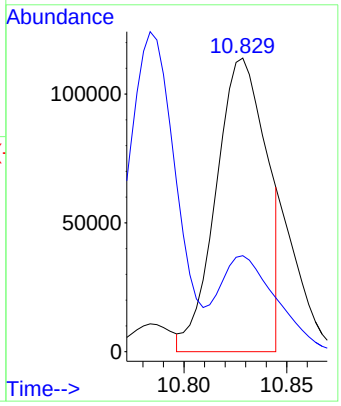
9/27/2021 11:03:05 AM

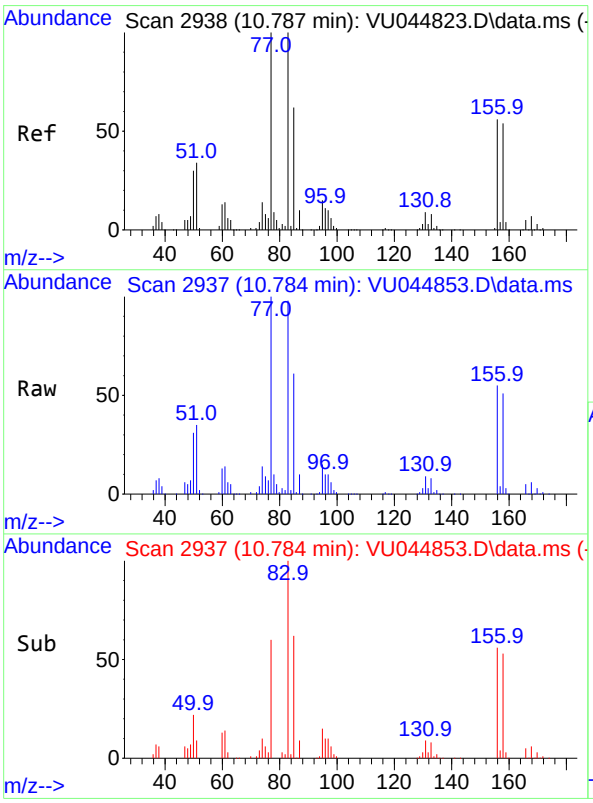


#76
1,2,3-Trichloropropane
Concen: 48.870 ug/l m
RT: 10.829 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 75 Resp: 194477

Ion	Ratio	Lower	Upper
75	100		
77	37.9	17.9	53.7

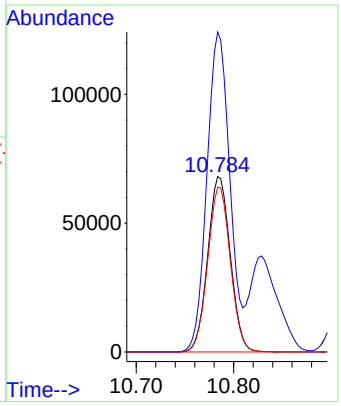




#77
Bromobenzene
Concen: 49.110 ug/l
RT: 10.784 min Scan# 2937
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:156 Resp: 109437

Ion	Ratio	Lower	Upper
156	100		
77	184.3	91.1	273.4
158	94.6	48.2	144.6



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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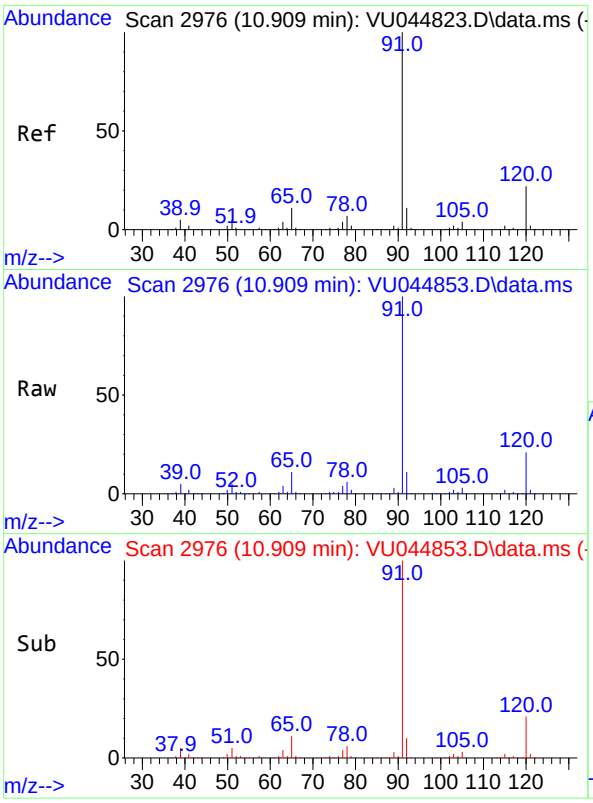
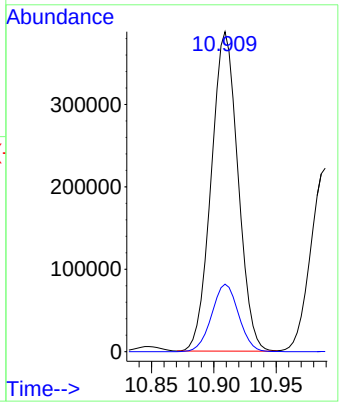
9/27/2021 11:03:05 AM

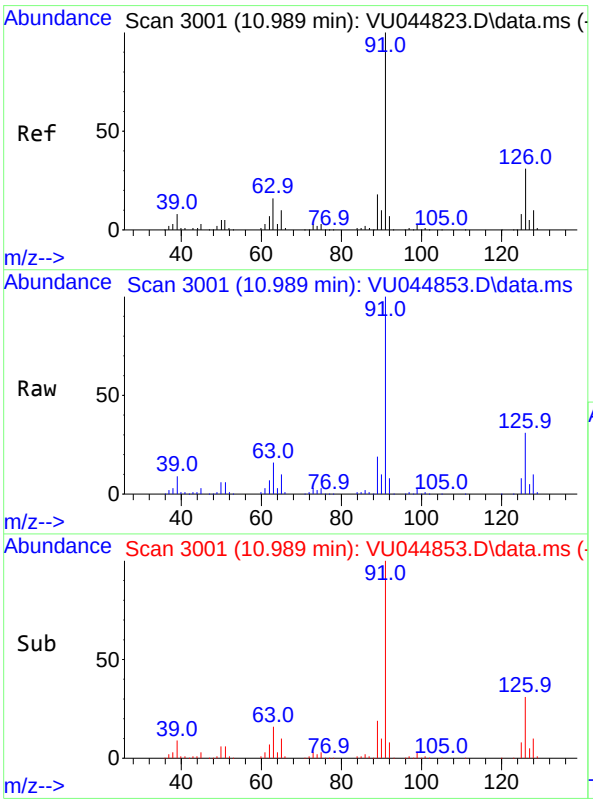


#78
n-propylbenzene
Concen: 51.235 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 91 Resp: 579062

Ion	Ratio	Lower	Upper
91	100		
120	21.3	10.8	32.4

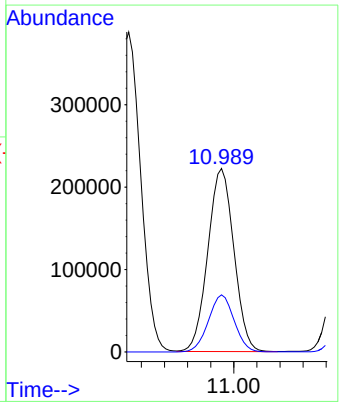




#79
2-Chlorotoluene
Concen: 50.488 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 91 Resp: 347769

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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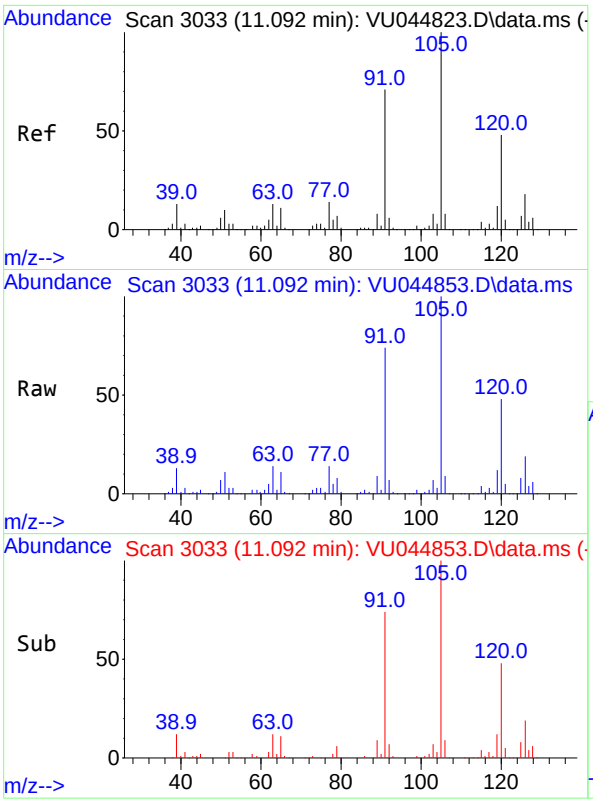
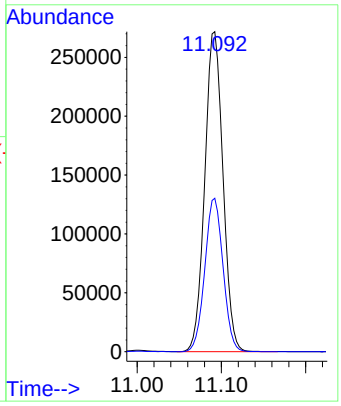
9/27/2021 11:03:05 AM

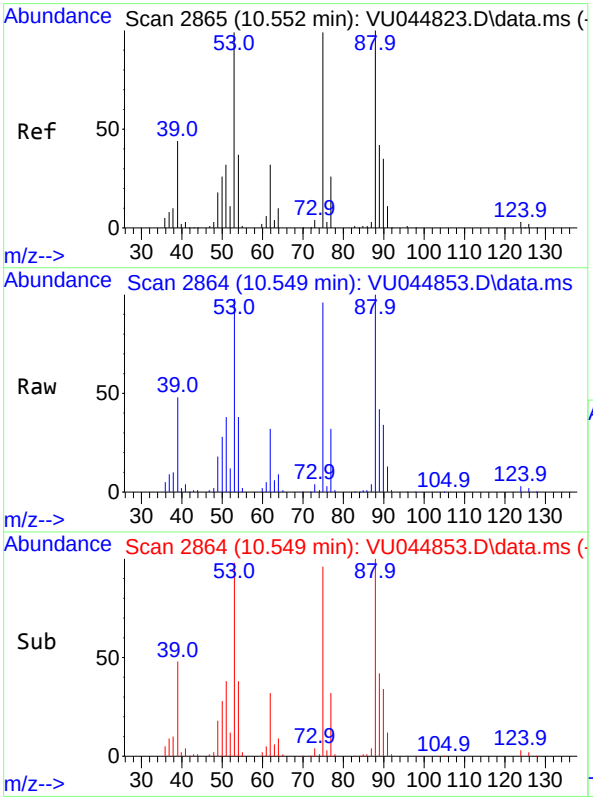


#80
1,3,5-Trimethylbenzene
Concen: 51.798 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:105 Resp: 409245

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.1	72.2

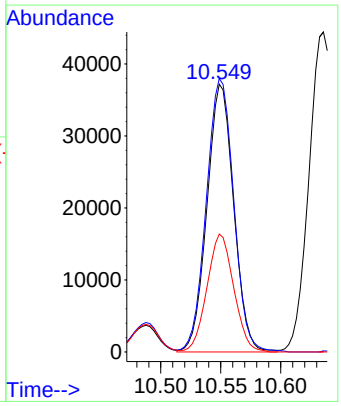




#81
trans-1,4-Dichloro-2-butene
Concen: 46.799 ug/l
RT: 10.549 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 75 Resp: 57491

Ion	Ratio	Lower	Upper
75	100		
53	104.9	82.0	123.0
89	44.1	34.2	51.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

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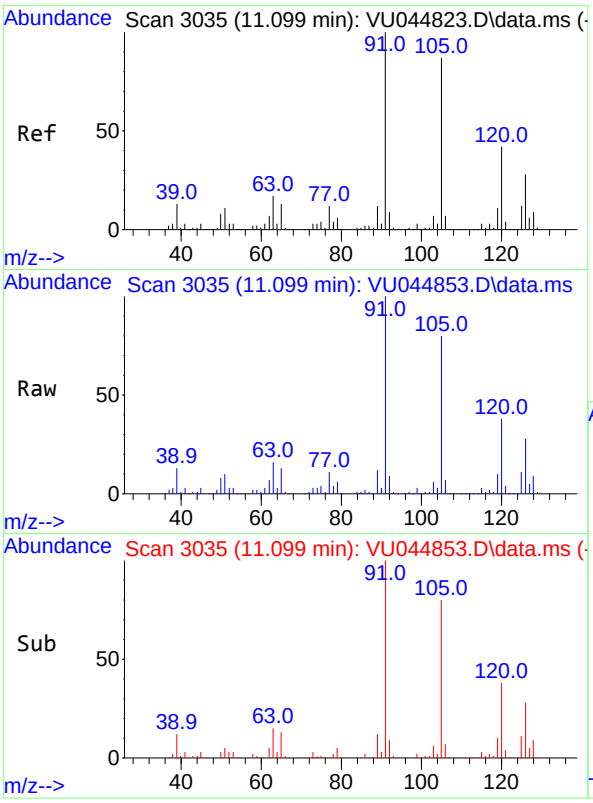
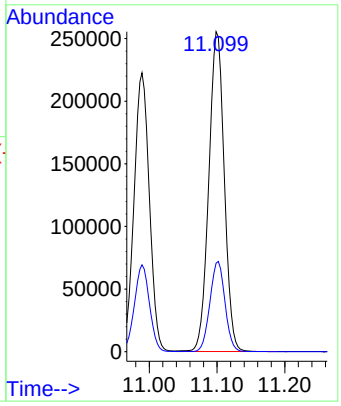
9/27/2021 11:03:05 AM

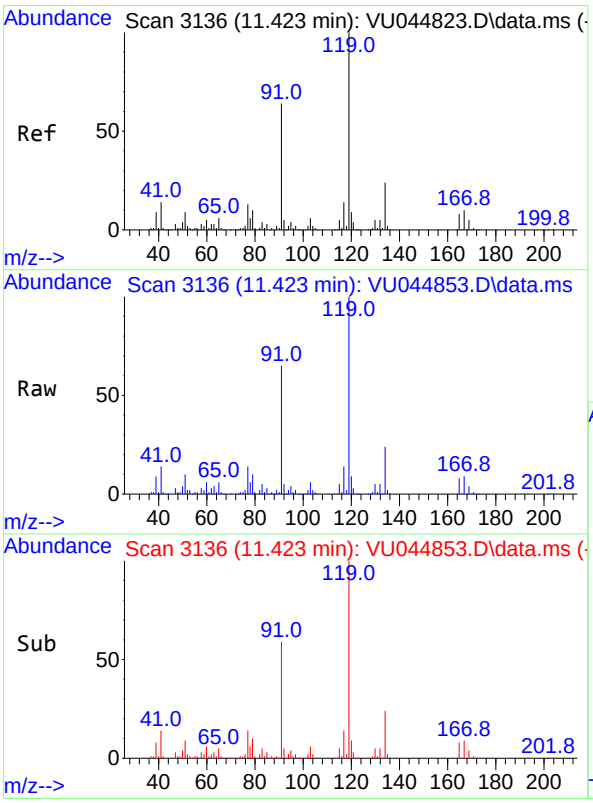


#82
4-Chlorotoluene
Concen: 51.711 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 91 Resp: 405517

Ion	Ratio	Lower	Upper
91	100		
126	27.2	13.8	41.4

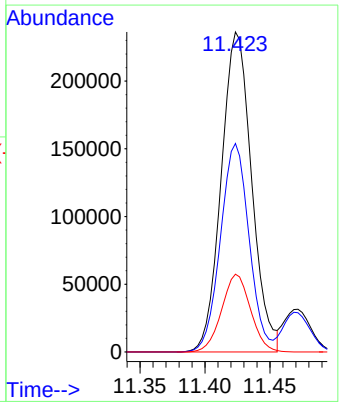




#83
tert-Butylbenzene
Concen: 50.492 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:119 Resp: 384839

Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.4	91.2
134	23.1	11.5	34.5



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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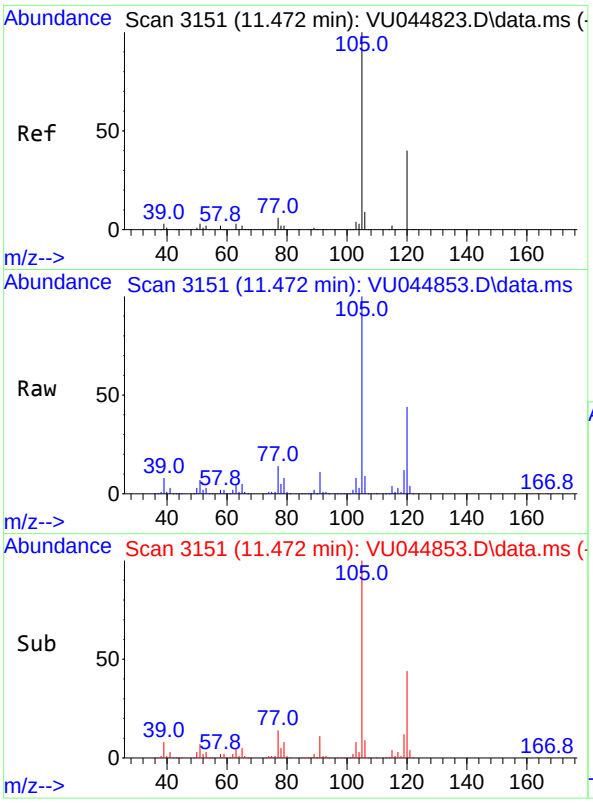
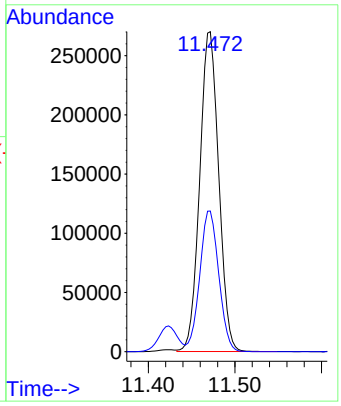
9/27/2021 11:03:05 AM

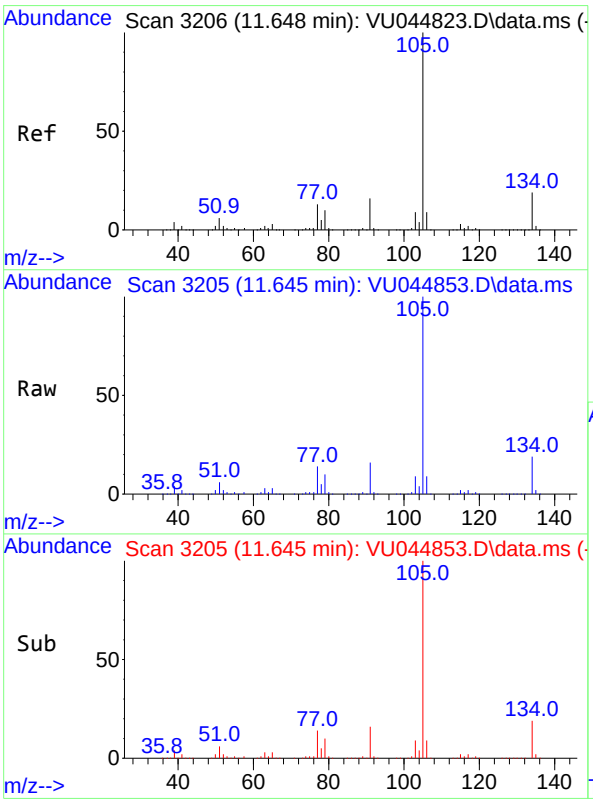


#84
1,2,4-Trimethylbenzene
Concen: 52.853 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:105 Resp: 411679

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.3

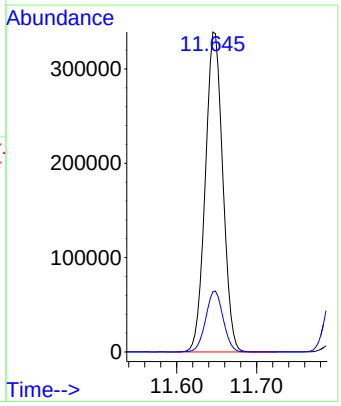




#85
sec-Butylbenzene
Concen: 52.176 ug/l
RT: 11.645 min Scan# 3205
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:105 Resp: 514231

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.3	28.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

Manual Integrations APPROVED
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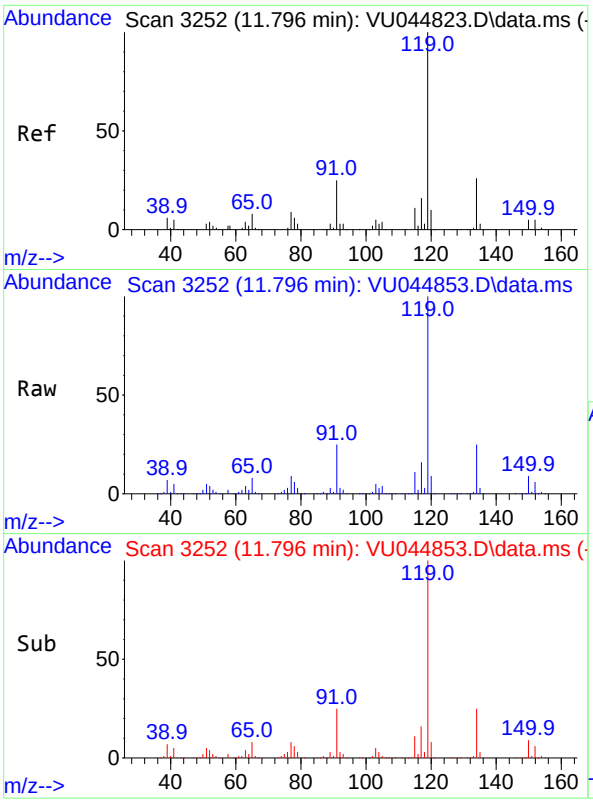
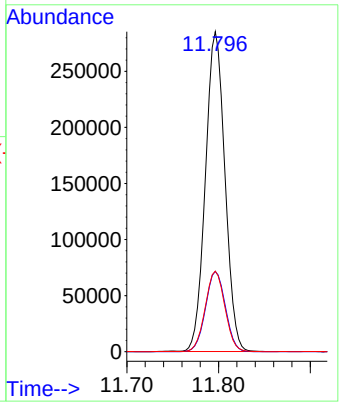
9/27/2021 11:03:05 AM

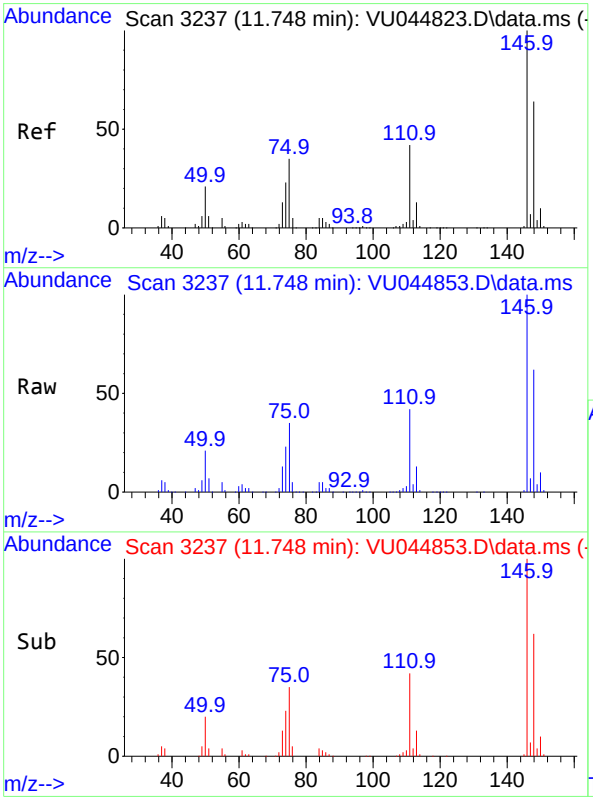


#86
p-Isopropyltoluene
Concen: 52.583 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:119 Resp: 421601

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.3
91	25.5	12.2	36.6

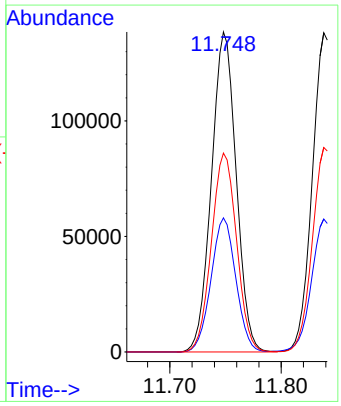




#87
1,3-Dichlorobenzene
Concen: 49.377 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

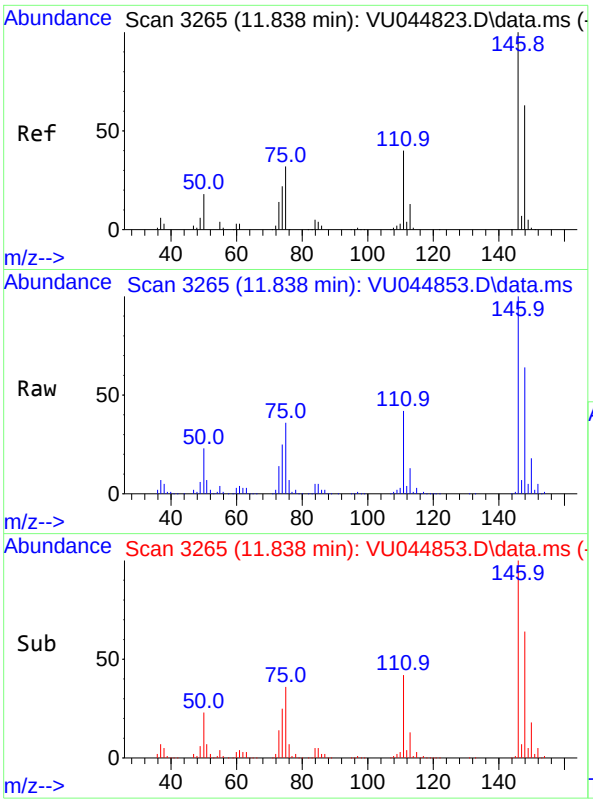
Tgt Ion:146 Resp: 213529

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.2	63.6
148	63.4	32.1	96.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

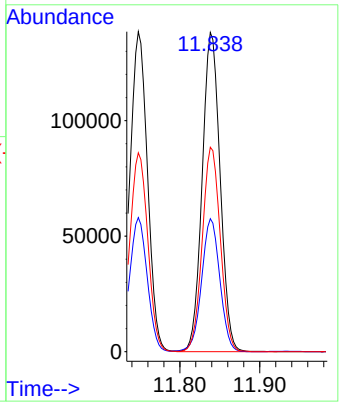
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:05 AM

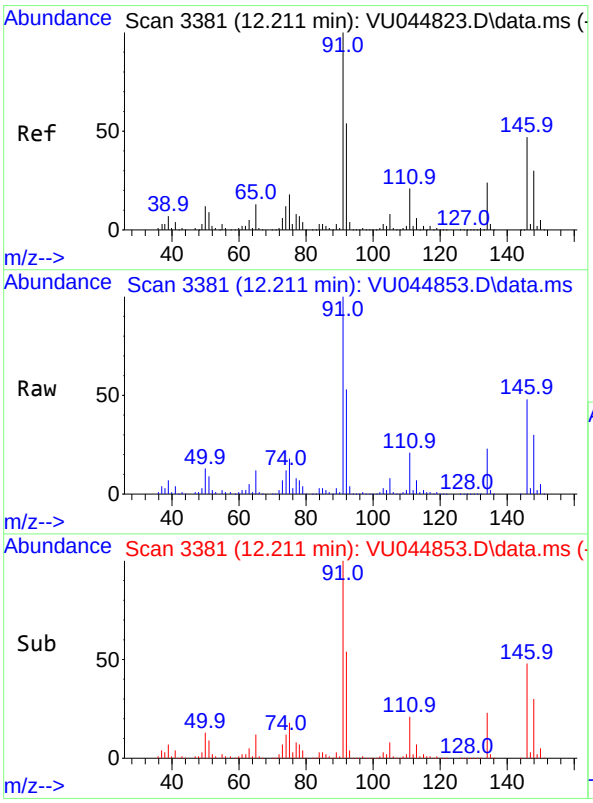


#88
1,4-Dichlorobenzene
Concen: 48.225 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:146 Resp: 215666

Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.3	61.0
148	64.5	31.8	95.3

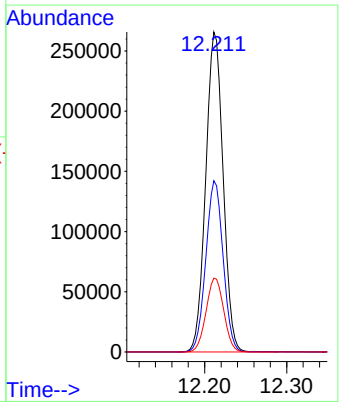




#89
n-Butylbenzene
Concen: 47.531 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

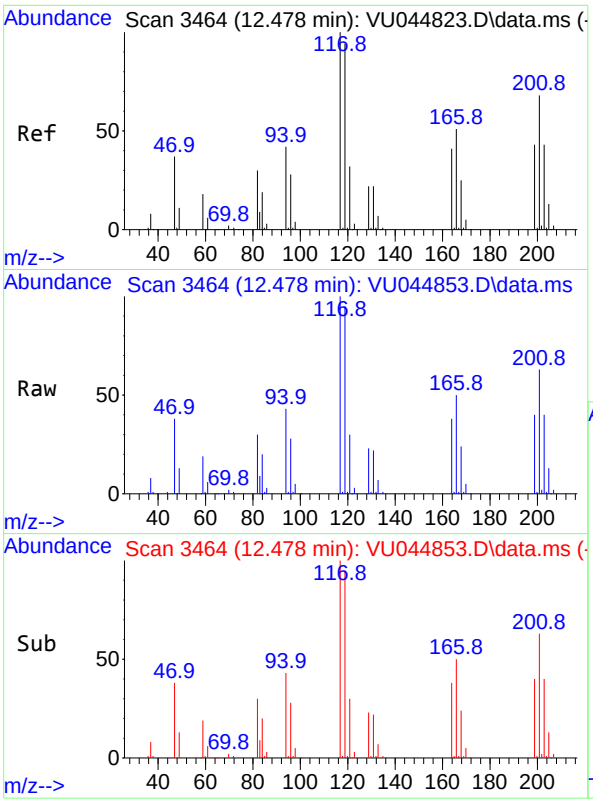
Tgt Ion: 91 Resp: 392014

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.8	80.4
134	23.5	11.8	35.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

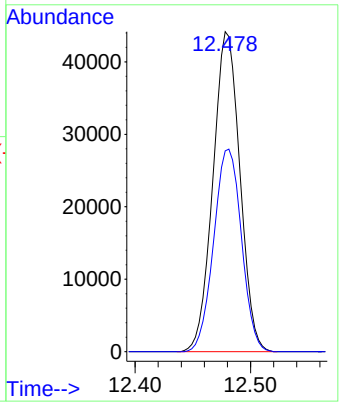
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:05 AM

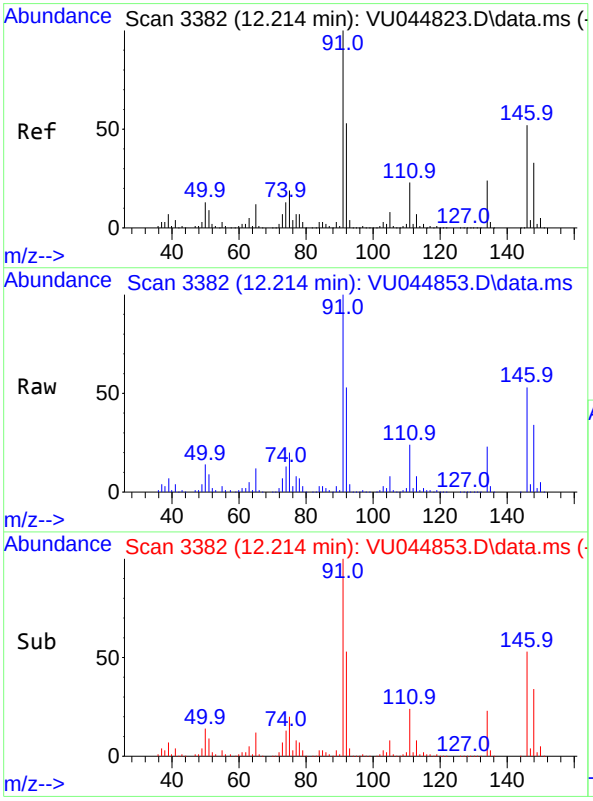


#90
Hexachloroethane
Concen: 49.613 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:117 Resp: 71680

Ion	Ratio	Lower	Upper
117	100		
201	65.1	34.8	104.3

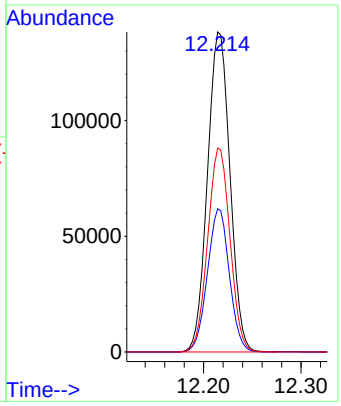




#91
1,2-Dichlorobenzene
Concen: 48.449 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

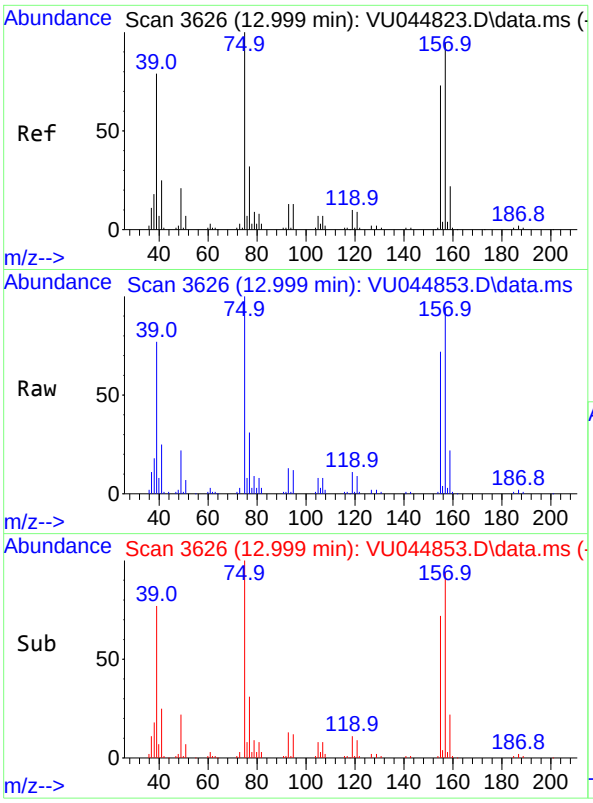
Tgt Ion:146 Resp: 222030

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.4	64.3
148	63.3	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

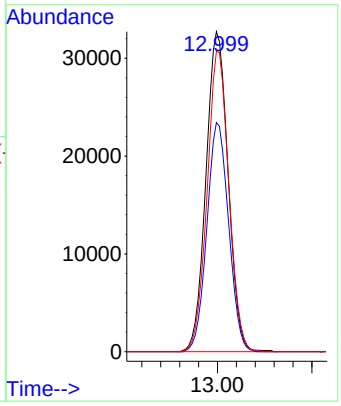
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:05 AM

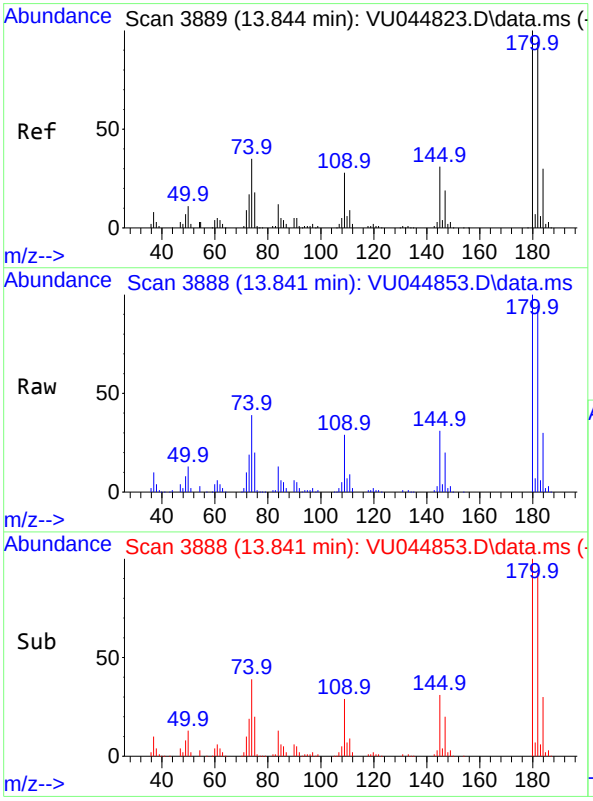


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.616 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion: 75 Resp: 53185

Ion	Ratio	Lower	Upper
75	100		
155	70.4	36.9	110.6
157	92.2	47.8	143.3

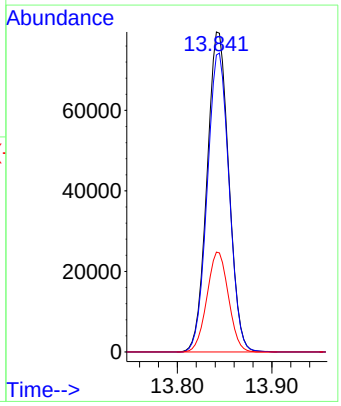




#93
1,2,4-Trichlorobenzene
Concen: 50.154 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. -0.003 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

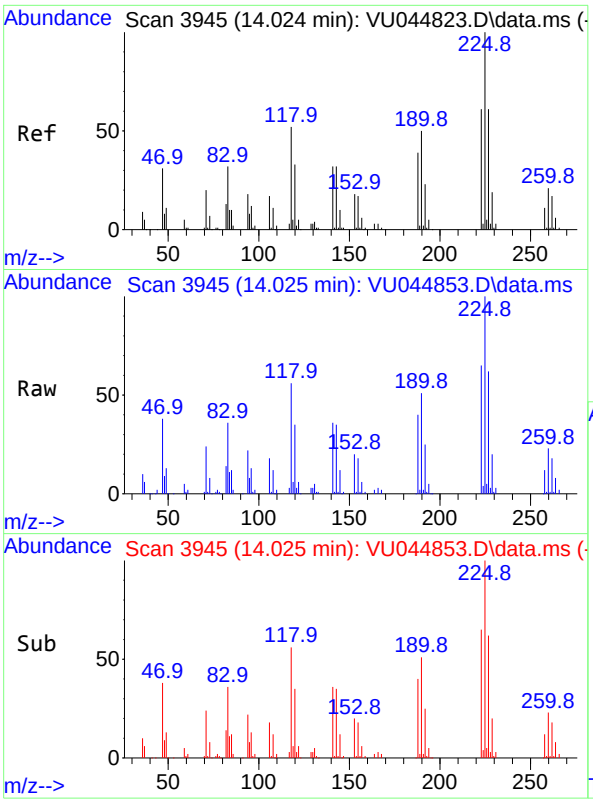
Tgt Ion:180 Resp: 127005

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.4	142.3
145	30.9	15.4	46.2



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

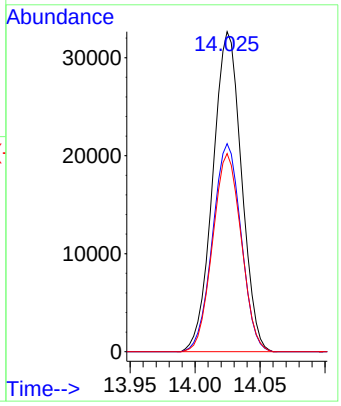
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:05 AM

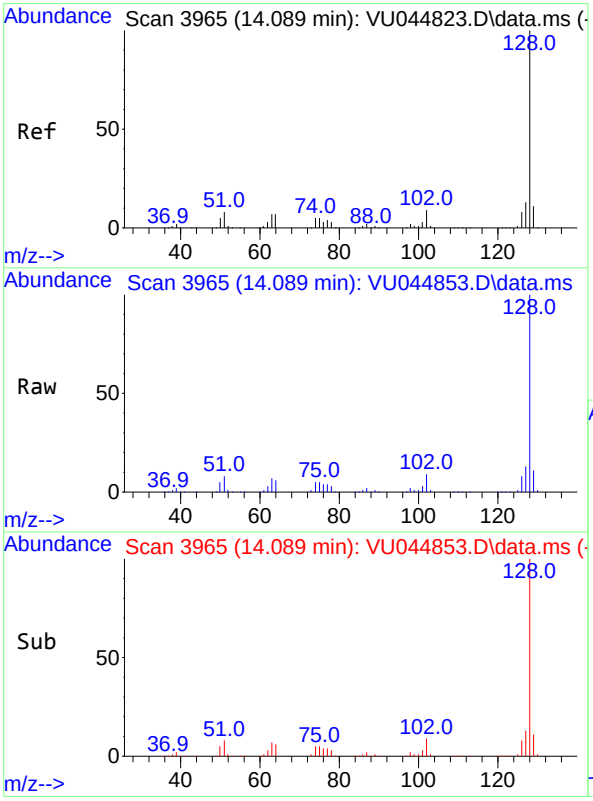


#94
Hexachlorobutadiene
Concen: 44.468 ug/l
RT: 14.025 min Scan# 3945
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:225 Resp: 50094

Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.1	93.3
227	61.7	31.4	94.3

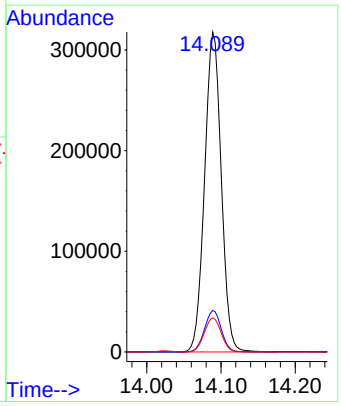




#95
Naphthalene
Concen: 49.046 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

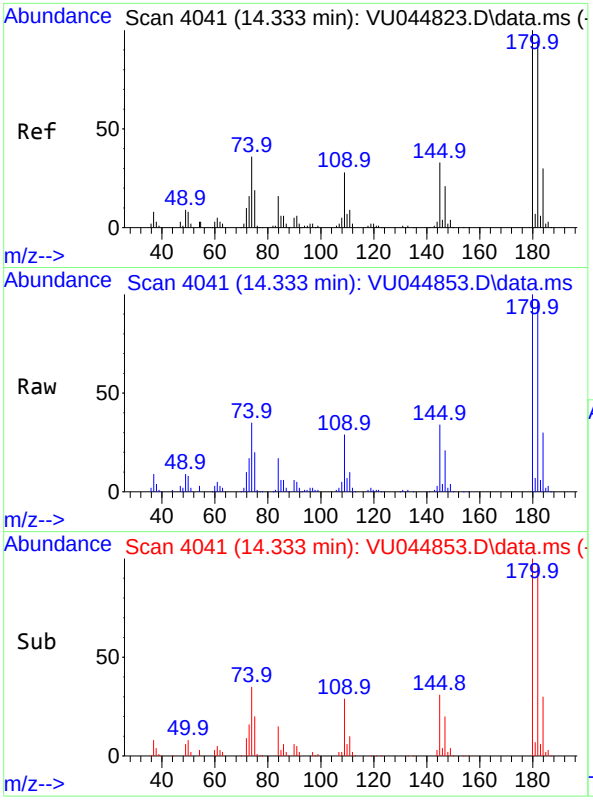
Tgt Ion:128 Resp: 494184

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.9	8.6	13.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MS

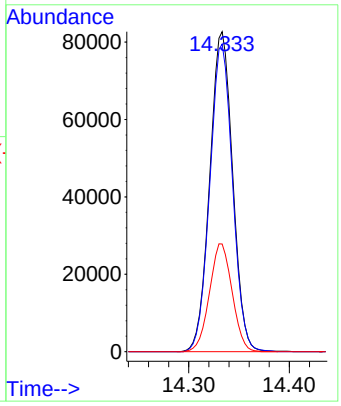
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:05 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.733 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU044853.D
Acq: 25 Sep 2021 21:38

Tgt Ion:180 Resp: 130637

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.1	141.4
145	33.4	16.4	49.2



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MSD	SDG No.:	M3859
Lab Sample ID:	M3859-09MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044854.D	1		09/25/21 22:02	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	49.5		0.23	1.00	ug/L
74-87-3	Chloromethane	40.6		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	49.8		0.19	1.00	ug/L
74-83-9	Bromomethane	44.5		0.87	5.00	ug/L
75-00-3	Chloroethane	45.8		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	48.3		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	47.6		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	47.0		0.26	1.00	ug/L
67-64-1	Acetone	230		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	44.9		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	50.7		0.22	1.00	ug/L
79-20-9	Methyl Acetate	42.3		0.47	1.00	ug/L
75-09-2	Methylene Chloride	44.5		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	49.3		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	48.7		0.21	1.00	ug/L
110-82-7	Cyclohexane	44.8		1.30	5.00	ug/L
78-93-3	2-Butanone	240		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	47.3		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	89.7		0.22	1.00	ug/L
74-97-5	Bromochloromethane	45.2		0.26	1.00	ug/L
67-66-3	Chloroform	47.4		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	48.0		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	48.7		0.14	1.00	ug/L
71-43-2	Benzene	46.9		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	47.4		0.25	1.00	ug/L
79-01-6	Trichloroethene	100		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	47.0		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	47.6		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	230		0.87	5.00	ug/L
108-88-3	Toluene	48.0		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	48.7		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.3		0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MSD	SDG No.:	M3859
Lab Sample ID:	M3859-09MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044854.D	1		09/25/21 22:02	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	47.2		0.24	1.00	ug/L
591-78-6	2-Hexanone	240		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	47.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	46.9		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	150	E	0.17	1.00	ug/L
108-90-7	Chlorobenzene	47.5		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	50.3		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.32	2.00	ug/L
95-47-6	o-Xylene	51.0		0.19	1.00	ug/L
100-42-5	Styrene	46.3		0.16	1.00	ug/L
75-25-2	Bromoform	46.3		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	51.1		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	47.4		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	48.5		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	47.6		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	47.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	53.0		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.8		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	53.4		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		78 - 117	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	49.5		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		83 - 123	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	5.378			
540-36-3	1,4-Difluorobenzene	271000	6.253			
3114-55-4	Chlorobenzene-d5	256000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	127000	11.815			

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MSD	SDG No.:	M3859
Lab Sample ID:	M3859-09MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044854.D	1		09/25/21 22:02	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044854.D
Acq On : 25 Sep 2021 22:02
Operator : SY/MD
Sample : M3859-09MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : 1028-MW-02MSD

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:08 AM

Quant Time: Sep 27 01:37:40 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	148110	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	270542	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	256005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	127091	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	129844	50.231	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.460%			
35) Dibromofluoromethane	5.292	113	90670	48.853	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.700%			
50) Toluene-d8	7.902	98	346953	49.497	ug/l	0.00
Spiked Amount 50.000			Recovery = 99.000%			
62) 4-Bromofluorobenzene	10.635	95	127489	48.968	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	87764	49.477	ug/l	97
3) Chloromethane	1.520	50	109368	40.627	ug/l	99
4) Vinyl Chloride	1.607	62	125241	49.848	ug/l	100
5) Bromomethane	1.845	94	54996	44.513	ug/l	98
6) Chloroethane	1.928	64	77321	45.830	ug/l	100
7) Trichlorofluoromethane	2.137	101	149094	48.321	ug/l	100
8) Diethyl Ether	2.379	74	69737	49.373	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.584	101	85802	47.618	ug/l	97
10) Methyl Iodide	2.726	142	77076	39.365	ug/l	97
11) Tert butyl alcohol	3.192	59	161082	213.504	ug/l	100
12) 1,1-Dichloroethene	2.581	96	83817	47.001	ug/l	99
13) Acrolein	2.488	56	52684	258.567	ug/l	100
14) Allyl chloride	2.925	41	160940	46.496	ug/l	99
15) Acrylonitrile	3.317	53	370930	235.362	ug/l	99
16) Acetone	2.629	43	334797	229.616	ug/l	99
17) Carbon Disulfide	2.797	76	225062	44.863	ug/l	100
18) Methyl Acetate	2.951	43	205904	42.270	ug/l	98
19) Methyl tert-butyl Ether	3.369	73	337435	50.672	ug/l	99
20) Methylene Chloride	3.051	84	105078	44.519	ug/l	97
21) trans-1,2-Dichloroethene	3.356	96	94154	49.312	ug/l	99
22) Diisopropyl ether	3.999	45	334365	48.891	ug/l	95
23) Vinyl Acetate	3.960	43	1278533	227.969	ug/l	99
24) 1,1-Dichloroethane	3.874	63	193282	48.691	ug/l	100
25) 2-Butanone	4.706	43	522810	236.315	ug/l	99
26) 2,2-Dichloropropane	4.671	77	131710	44.244	ug/l	94
27) cis-1,2-Dichloroethene	4.671	96	208406	89.745	ug/l	95
28) Bromochloromethane	4.980	49	85324	45.232	ug/l	96
29) Tetrahydrofuran	5.054	42	332011	238.542	ug/l	98
30) Chloroform	5.092	83	189176	47.397	ug/l	99
31) Cyclohexane	5.391	56	166257	44.799	ug/l	96
32) 1,1,1-Trichloroethane	5.321	97	154877	48.025	ug/l	99
36) 1,1-Dichloropropene	5.530	75	134309	46.789	ug/l	100
37) Ethyl Acetate	4.806	43	177028	42.031	ug/l	99
38) Carbon Tetrachloride	5.530	117	121408	47.310	ug/l	100
39) Methylcyclohexane	6.767	83	158089	48.694	ug/l	98
40) Benzene	5.777	78	410676	46.925	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044854.D
Acq On : 25 Sep 2021 22:02
Operator : SY/MD
Sample : M3859-09MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 27 01:37:40 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.976	41	100534	47.820	ug/l		98
42) 1,2-Dichloroethane	5.800	62	163288	47.426	ug/l		99
43) Isopropyl Acetate	5.915	43	266373	45.205	ug/l		99
44) Trichloroethene	6.546	130	217100	103.216	ug/l		96
45) 1,2-Dichloropropane	6.796	63	111355	47.014	ug/l		97
46) Dibromomethane	6.922	93	75815	48.307	ug/l		98
47) Bromodichloromethane	7.108	83	147457	47.631	ug/l		97
48) Methyl methacrylate	6.964	41	133857	48.128	ug/l		98
49) 1,4-Dioxane	6.976	88	65668	923.831	ug/l		95
51) 4-Methyl-2-Pentanone	7.796	43	976957	232.628	ug/l		99
52) Toluene	7.973	92	251123	47.994	ug/l		100
53) t-1,3-Dichloropropene	8.214	75	157075	48.701	ug/l		100
54) cis-1,3-Dichloropropene	7.610	75	168644	48.282	ug/l		99
55) 1,1,2-Trichloroethane	8.404	97	105562	47.188	ug/l		98
56) Ethyl methacrylate	8.336	69	179163	45.152	ug/l		100
57) 1,3-Dichloropropane	8.578	76	189226	47.503	ug/l		100
59) 2-Hexanone	8.687	43	794498	235.686	ug/l		99
60) Dibromochloromethane	8.816	129	101559	47.408	ug/l		100
61) 1,2-Dibromoethane	8.928	107	110100	46.873	ug/l		99
64) Tetrachloroethene	8.558	164	264889	152.651	ug/l		99
65) Chlorobenzene	9.449	112	252633	47.536	ug/l		99
66) 1,1,1,2-Tetrachloroethane	9.539	131	90055	47.508	ug/l		98
67) Ethyl Benzene	9.574	91	477513	50.339	ug/l		99
68) m/p-Xylenes	9.697	106	363285	100.132	ug/l		98
69) o-Xylene	10.102	106	179005	51.025	ug/l		100
70) Styrene	10.118	104	302848	46.264	ug/l		98
71) Bromoform	10.295	173	72573	46.270	ug/l	#	99
73) Isopropylbenzene	10.488	105	460599	51.062	ug/l		99
74) N-amyl acetate	10.324	43	221782	48.239	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.787	83	194636	47.363	ug/l		100
76) 1,2,3-Trichloropropane	10.828	75	183990m	47.808	ug/l		
77) Bromobenzene	10.787	156	104494	48.488	ug/l		97
78) n-propylbenzene	10.909	91	573624	52.482	ug/l		99
79) 2-Chlorotoluene	10.989	91	337521	50.668	ug/l		100
80) 1,3,5-Trimethylbenzene	11.092	105	403344	52.789	ug/l		99
81) trans-1,4-Dichloro-2-b...	10.549	75	55354	46.594	ug/l		99
82) 4-Chlorotoluene	11.098	91	394654	52.039	ug/l		99
83) tert-Butylbenzene	11.423	119	383827	52.074	ug/l		99
84) 1,2,4-Trimethylbenzene	11.471	105	405024	53.769	ug/l		99
85) sec-Butylbenzene	11.648	105	511781	53.695	ug/l		100
86) p-Isopropyltoluene	11.796	119	413871	53.376	ug/l		98
87) 1,3-Dichlorobenzene	11.748	146	202639	48.454	ug/l		99
88) 1,4-Dichlorobenzene	11.838	146	205722	47.567	ug/l		99
89) n-Butylbenzene	12.211	91	385832	48.351	ug/l		100
90) Hexachloroethane	12.478	117	69391	49.664	ug/l		94
91) 1,2-Dichlorobenzene	12.214	146	210672	47.536	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.999	75	52857	53.044	ug/l		96
93) 1,2,4-Trichlorobenzene	13.841	180	129266	52.785	ug/l		99
94) Hexachlorobutadiene	14.024	225	49414	45.357	ug/l		99
95) Naphthalene	14.089	128	512798	52.556	ug/l		100
96) 1,2,3-Trichlorobenzene	14.333	180	132904	53.370	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044854.D
Acq On : 25 Sep 2021 22:02
Operator : SY/MD
Sample : M3859-09MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 27 01:37:40 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092521\
Data File : VU044854.D
Acq On : 25 Sep 2021 22:02
Operator : SY/MD
Sample : M3859-09MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 27 01:37:40 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092421W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 25 09:30:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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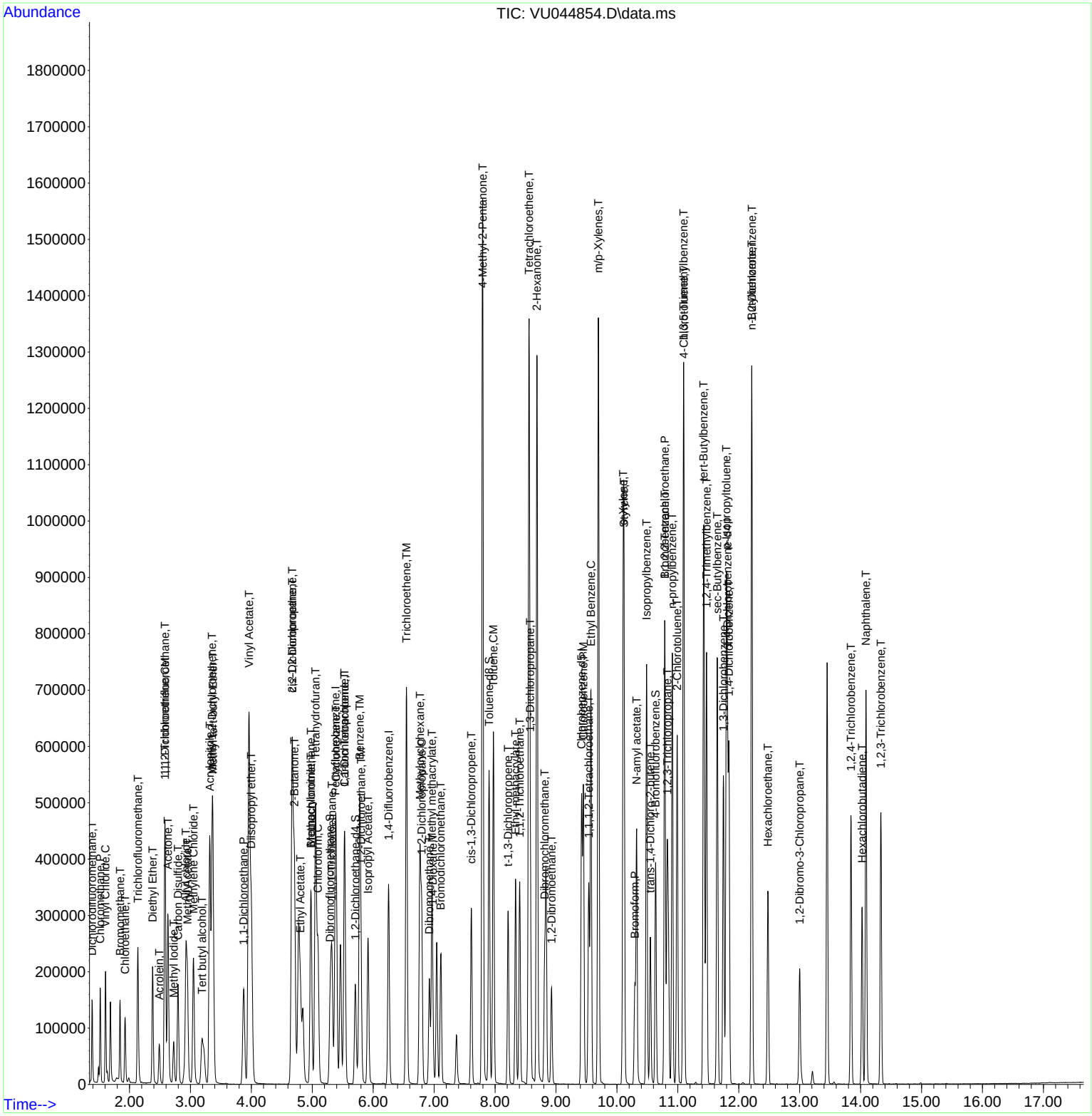

Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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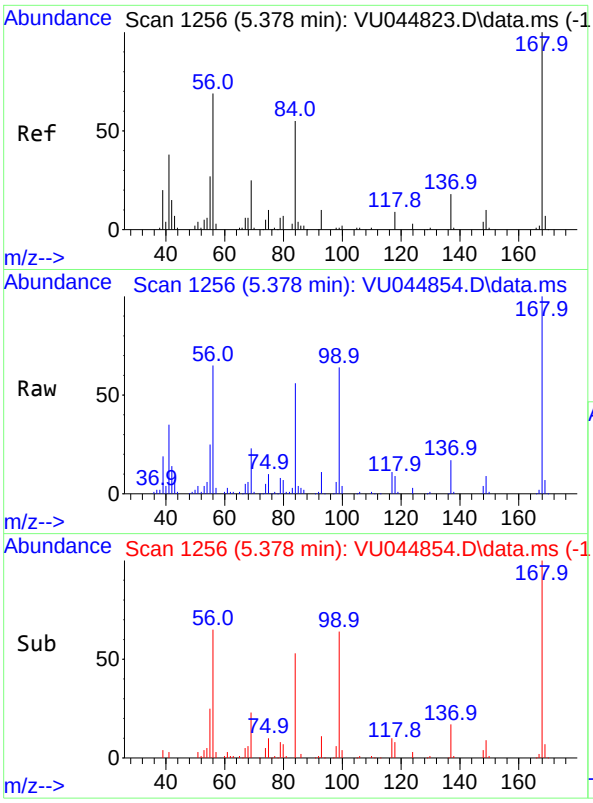
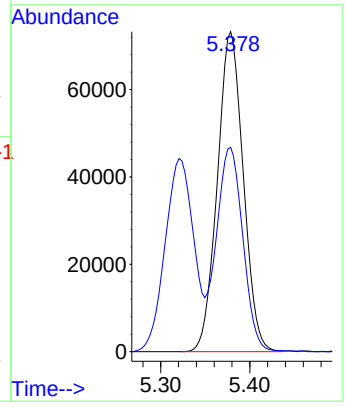
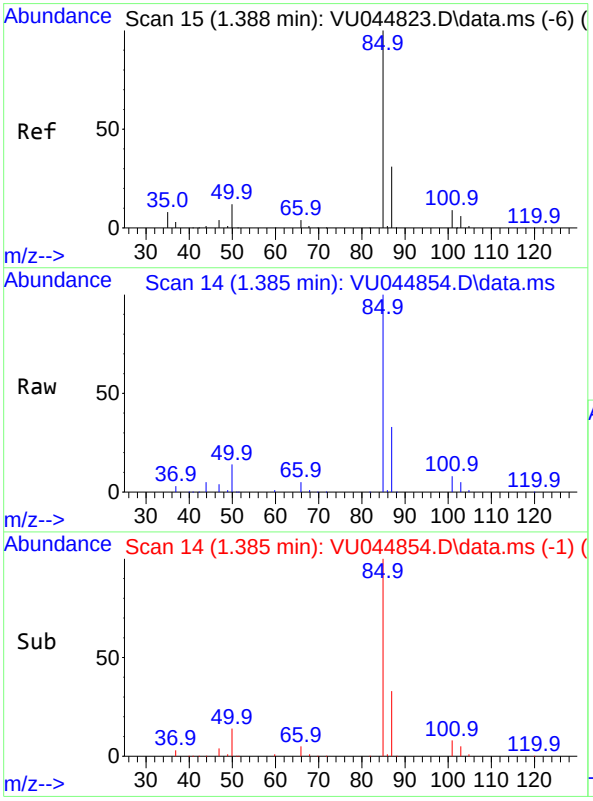


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. 0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:168 Resp: 148110

Ion	Ratio	Lower	Upper
168	100		
99	63.6	51.4	77.0

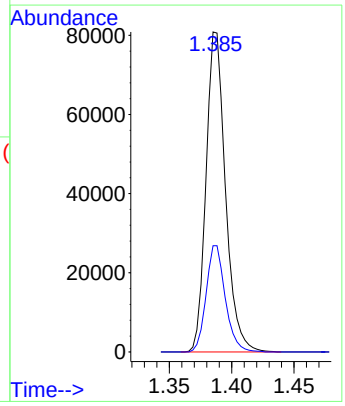




#2
Dichlorodifluoromethane
Concen: 49.477 ug/l
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 85 Resp: 87764

Ion	Ratio	Lower	Upper
85	100		
87	33.2	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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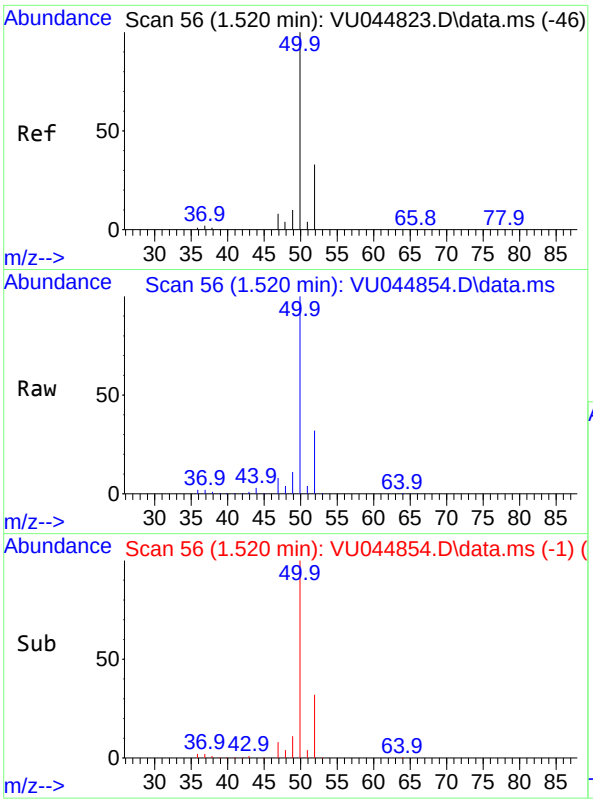
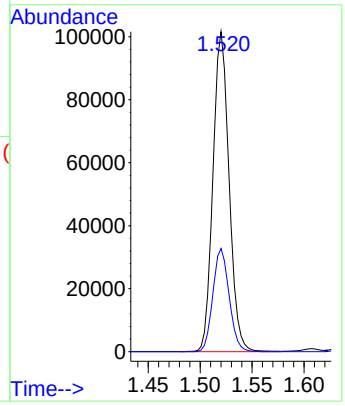
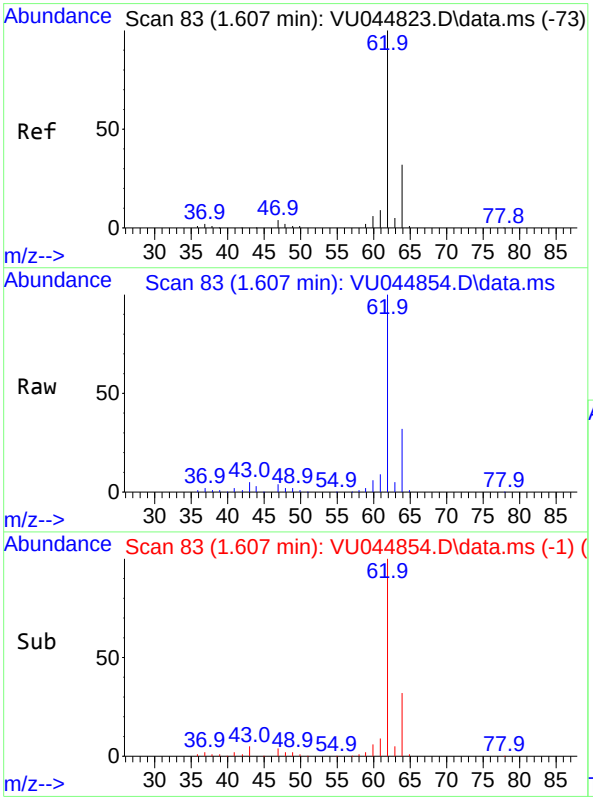


#3
Chloromethane
Concen: 40.627 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 50 Resp: 109368

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.3	39.5

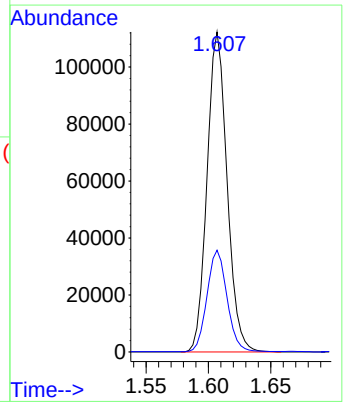




#4
Vinyl Chloride
Concen: 49.848 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 62 Resp: 125241

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.6	38.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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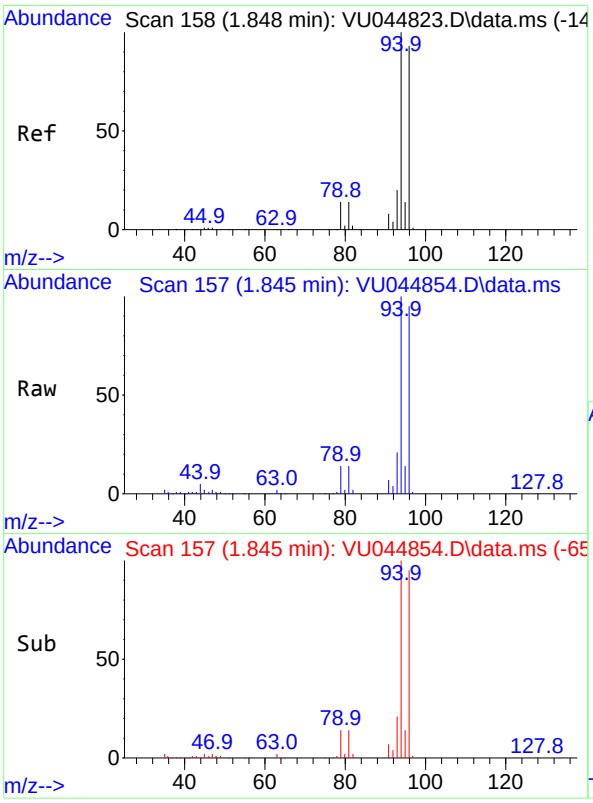
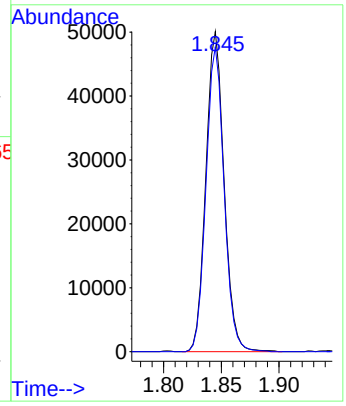
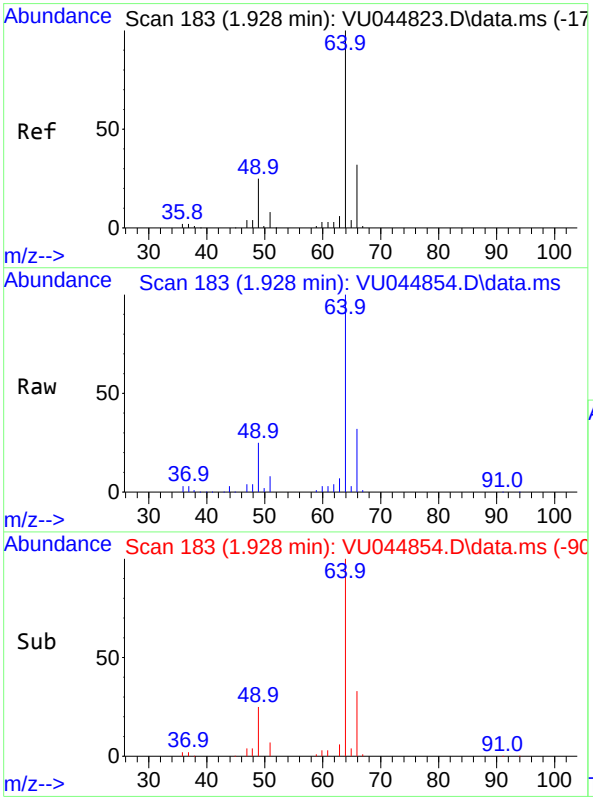


#5
Bromomethane
Concen: 44.513 ug/l
RT: 1.845 min Scan# 157
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 94 Resp: 54996

Ion	Ratio	Lower	Upper
94	100		
96	95.3	74.5	111.7

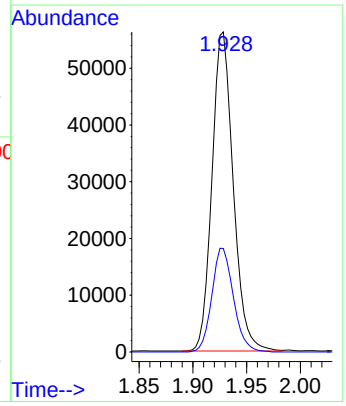




#6
Chloroethane
Concen: 45.830 ug/l
RT: 1.928 min Scan# 183
Delta R.T. 0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 64 Resp: 77321

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.8	38.8



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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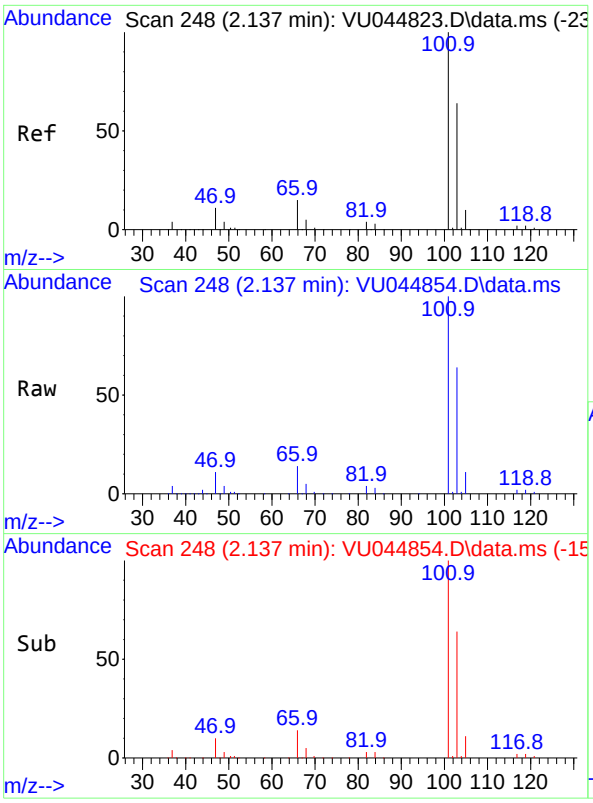
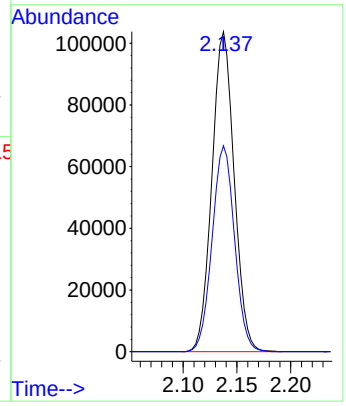
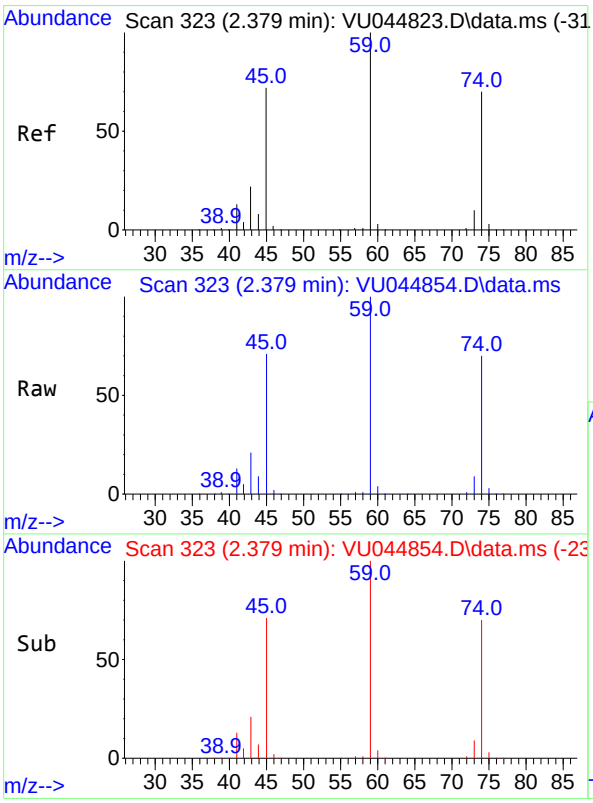


#7
Trichlorofluoromethane
Concen: 48.321 ug/l
RT: 2.137 min Scan# 248
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:101 Resp: 149094

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.2	76.8

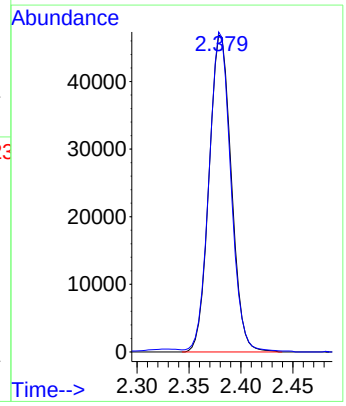




#8
Diethyl Ether
Concen: 49.373 ug/l
RT: 2.379 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 74 Resp: 69737

Ion	Ratio	Lower	Upper
74	100		
45	99.6	52.2	156.6



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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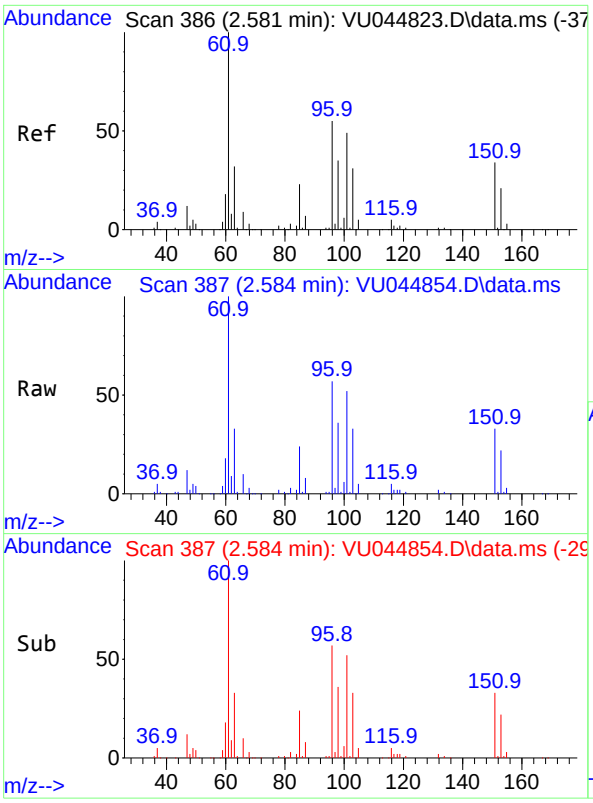
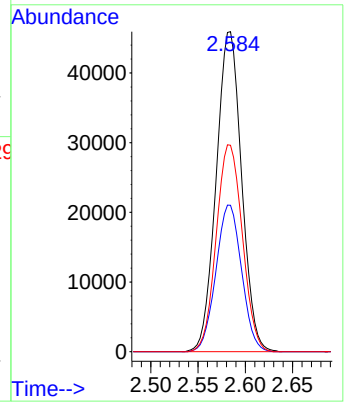
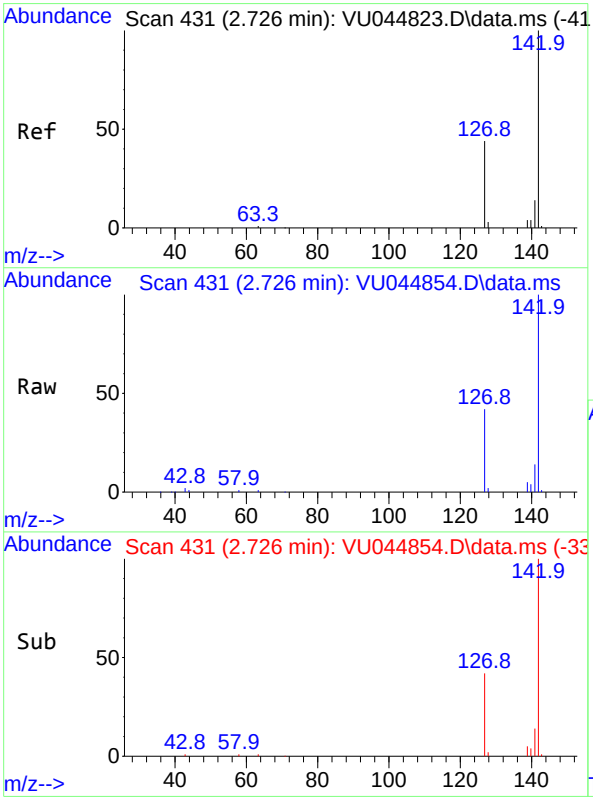


#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.618 ug/l
RT: 2.584 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:101 Resp: 85802

Ion	Ratio	Lower	Upper
101	100		
85	46.3	37.2	55.8
151	66.5	55.8	83.8

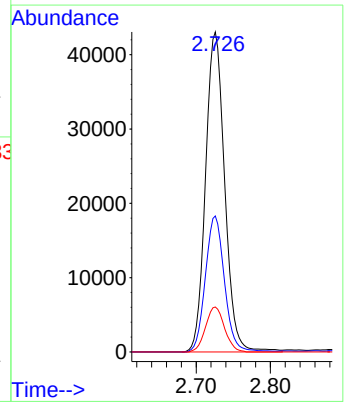




#10
Methyl Iodide
Concen: 39.365 ug/l
RT: 2.726 min Scan# 431
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:142 Resp: 77076

Ion	Ratio	Lower	Upper
142	100		
127	42.4	35.6	53.4
141	13.9	11.3	16.9



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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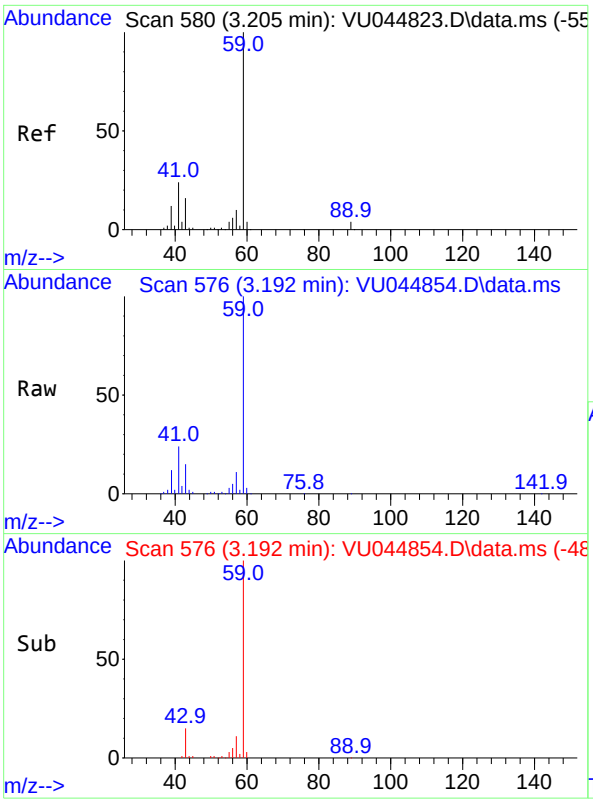
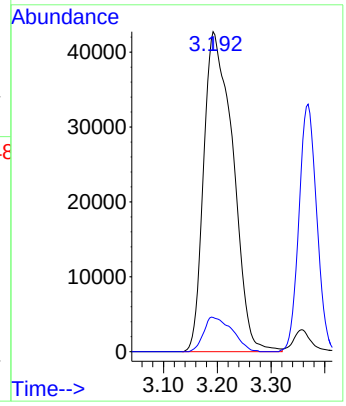
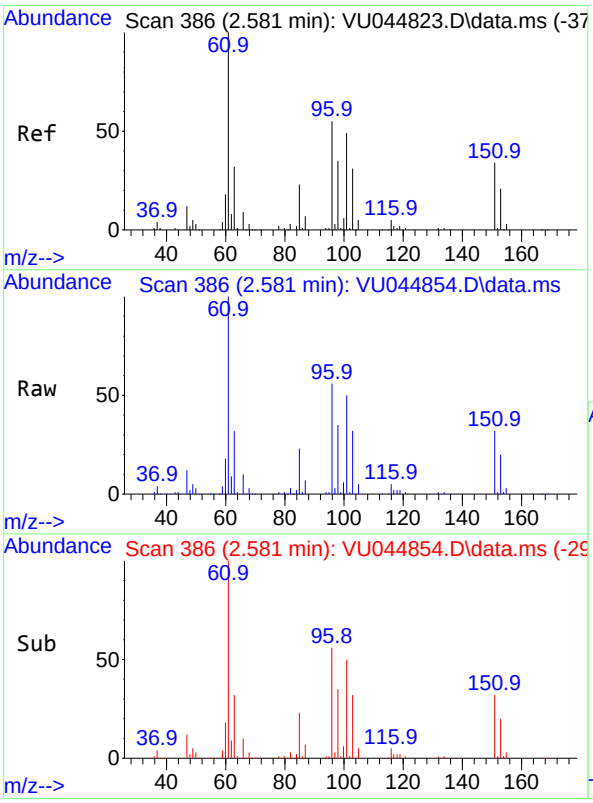


#11
Tert butyl alcohol
Concen: 213.504 ug/l
RT: 3.192 min Scan# 576
Delta R.T. -0.013 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 59 Resp: 161082

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

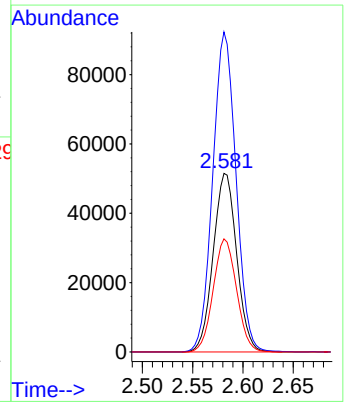




#12
1,1-Dichloroethene
Concen: 47.001 ug/l
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 96 Resp: 83817

Ion	Ratio	Lower	Upper
96	100		
61	179.2	145.4	218.0
98	63.4	50.9	76.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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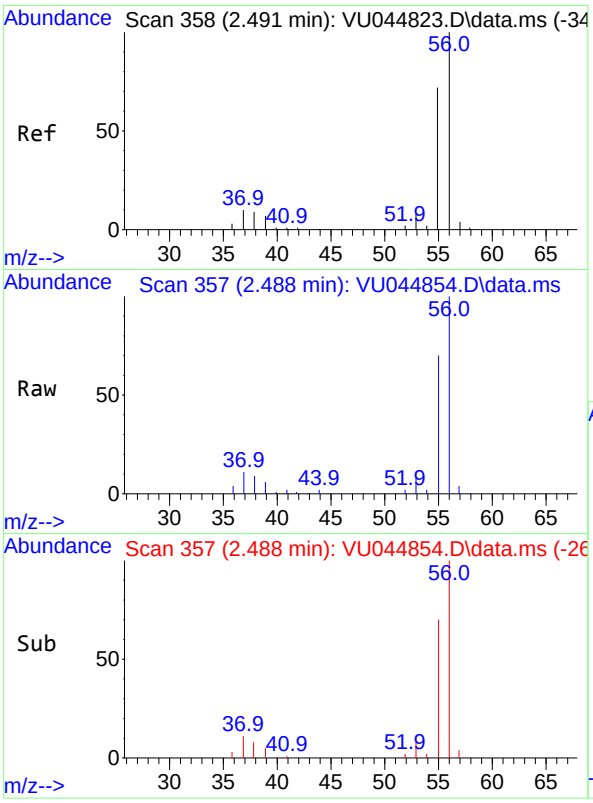
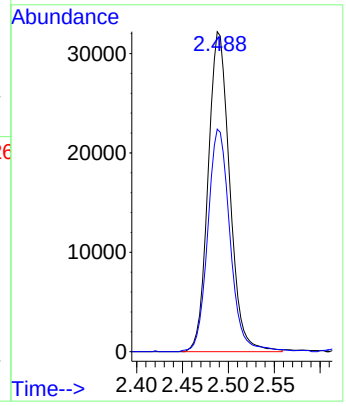
9/27/2021 11:03:08 AM

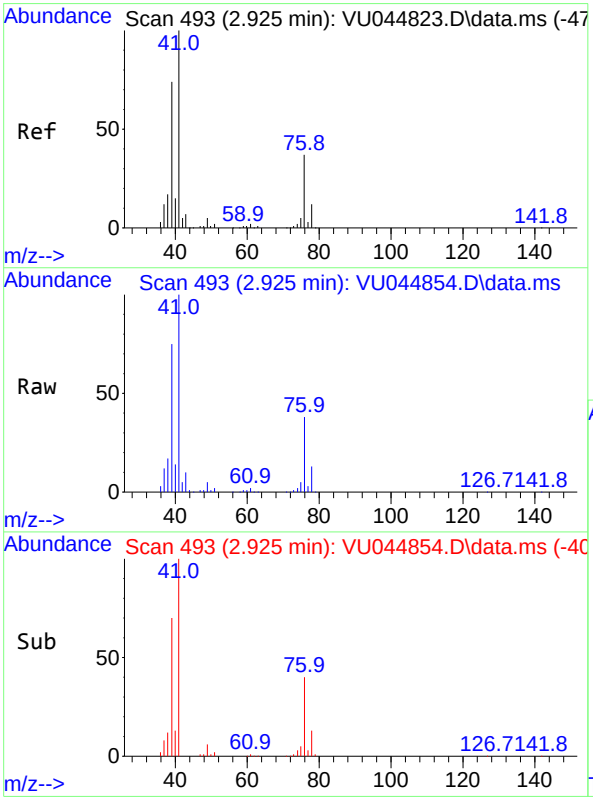


#13
Acrolein
Concen: 258.567 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 56 Resp: 52684

Ion	Ratio	Lower	Upper
56	100		
55	71.8	57.4	86.0

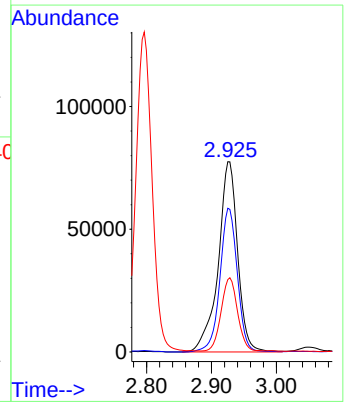




#14
Allyl chloride
Concen: 46.496 ug/l
RT: 2.925 min Scan# 493
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 41 Resp: 160940

Ion	Ratio	Lower	Upper
41	100		
39	67.6	53.0	79.6
76	32.4	25.7	38.5



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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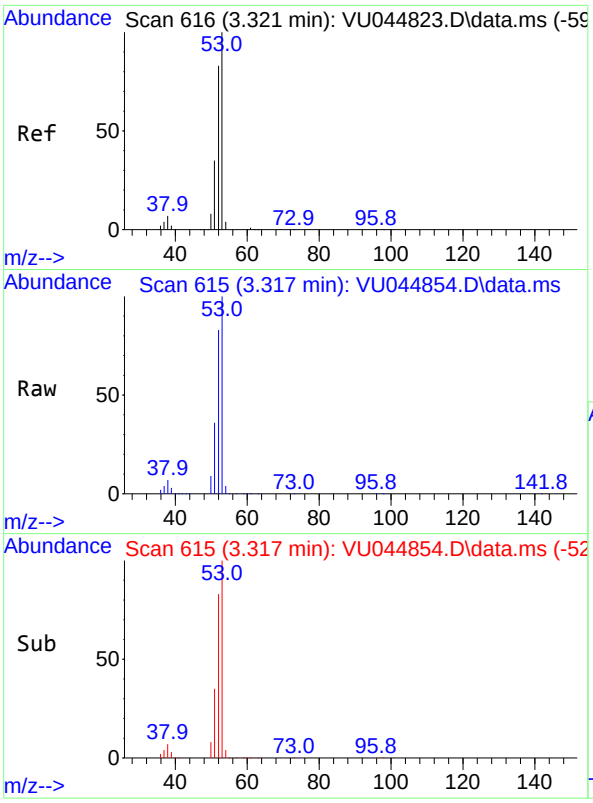
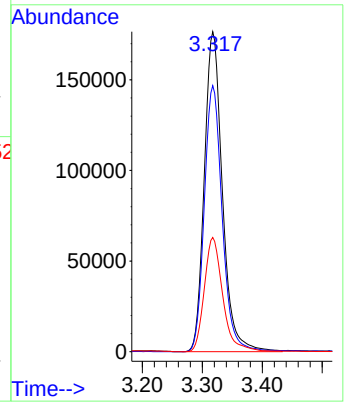
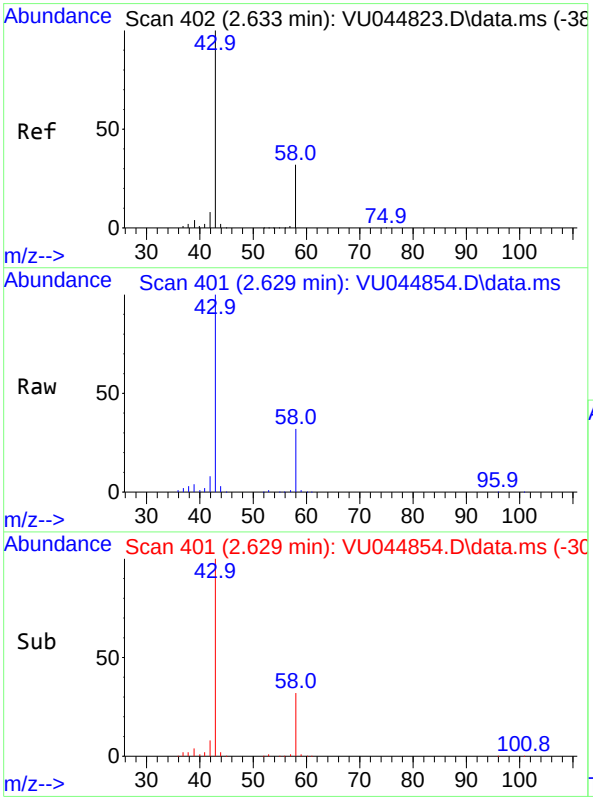


#15
Acrylonitrile
Concen: 235.362 ug/l
RT: 3.317 min Scan# 615
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 53 Resp: 370930

Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.0	99.0
51	36.5	28.6	42.8

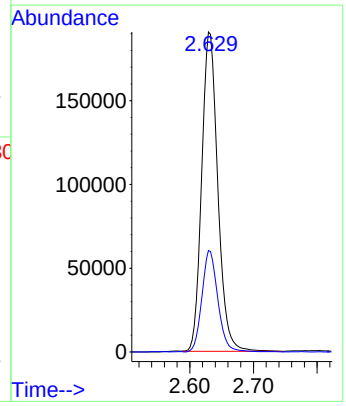




#16
Acetone
Concen: 229.616 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 334797

Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.2	37.8



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ClientSampleId :
1028-MW-02MSD

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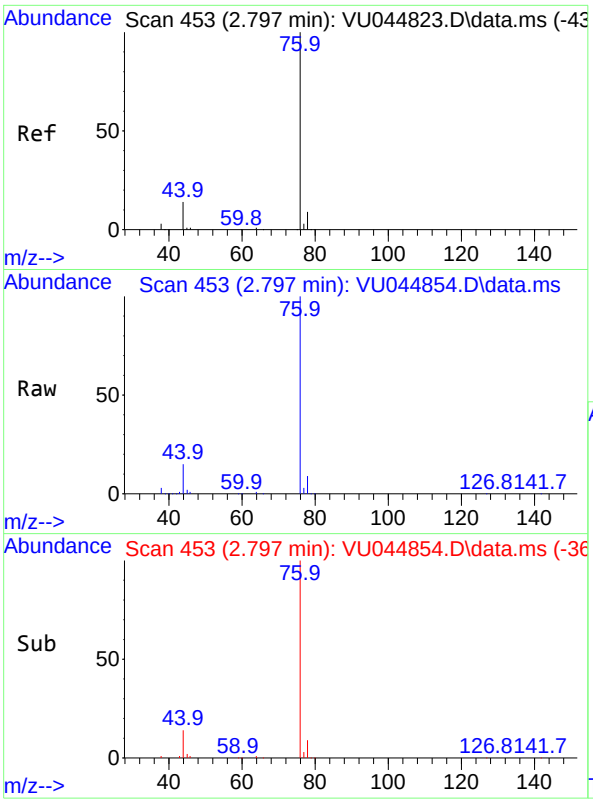
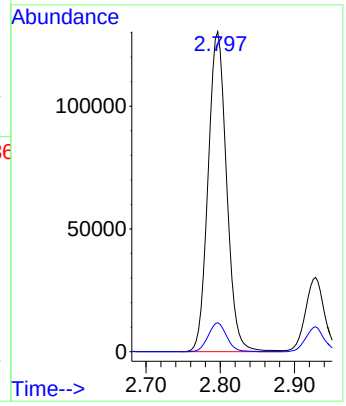
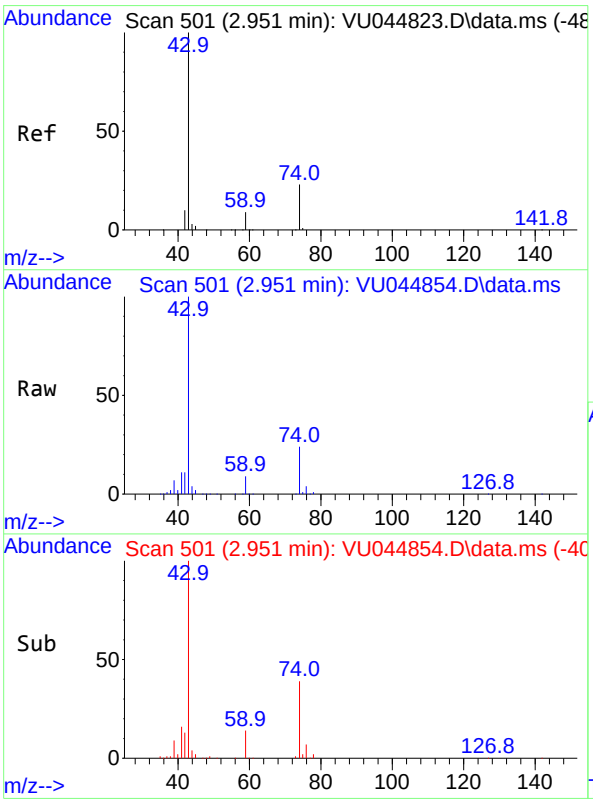


#17
Carbon Disulfide
Concen: 44.863 ug/l
RT: 2.797 min Scan# 453
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 76 Resp: 225062

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

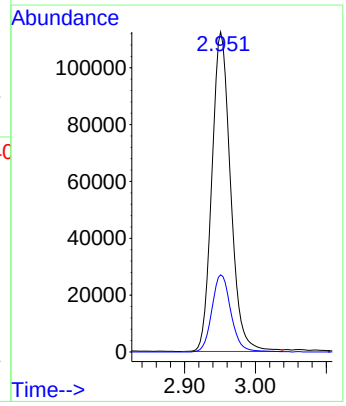




#18
Methyl Acetate
Concen: 42.270 ug/l
RT: 2.951 min Scan# 501
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 205904

Ion	Ratio	Lower	Upper
43	100		
74	24.7	19.0	28.6



Instrument :
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ClientSampleId :
1028-MW-02MSD

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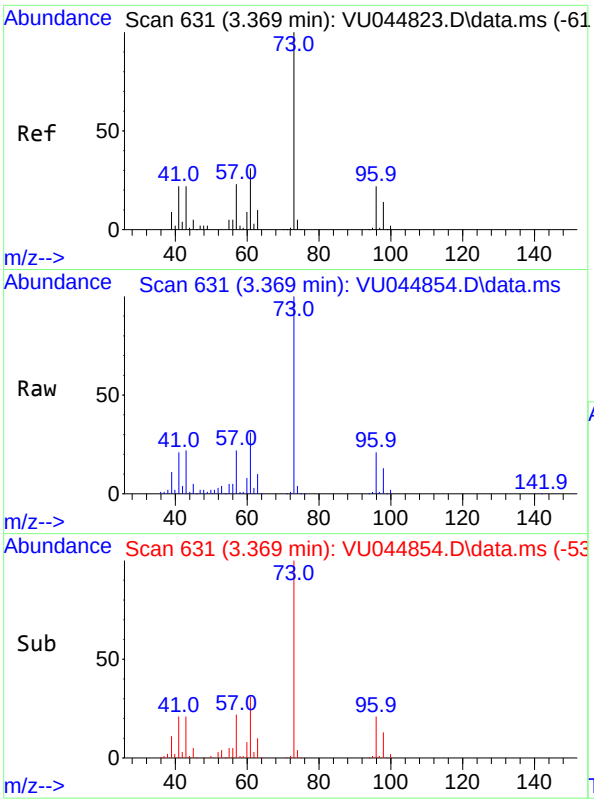
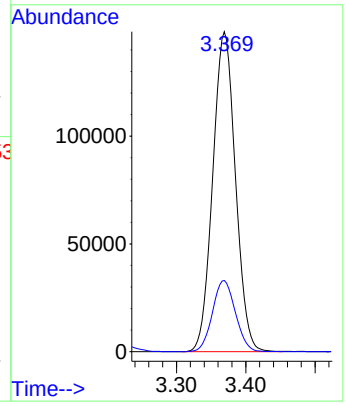
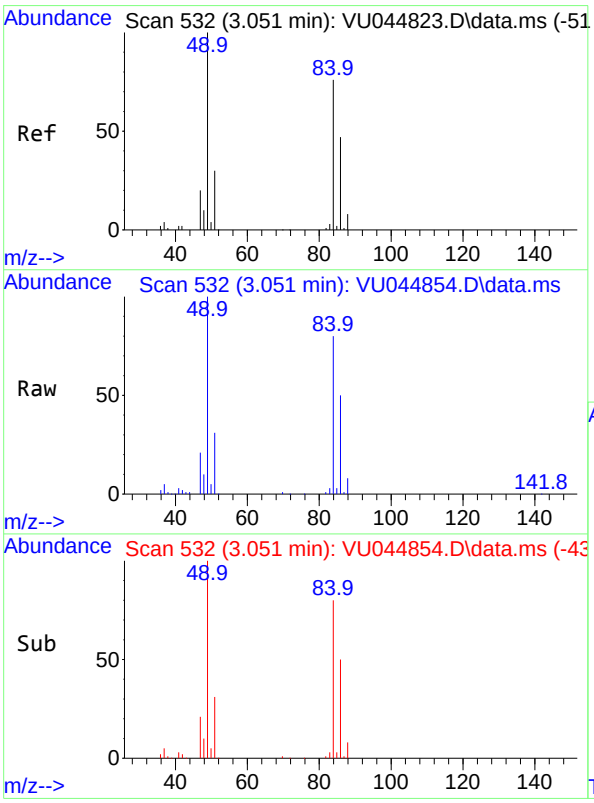


#19
Methyl tert-butyl Ether
Concen: 50.672 ug/l
RT: 3.369 min Scan# 631
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 73 Resp: 337435

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.2	27.2

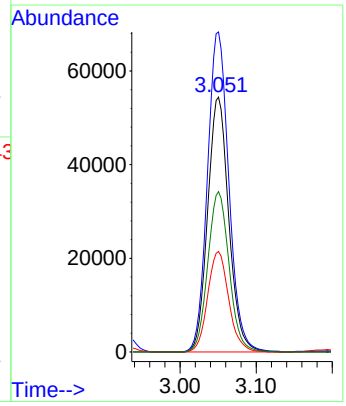




#20
Methylene Chloride
Concen: 44.519 ug/l
RT: 3.051 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 84 Resp: 105078

Ion	Ratio	Lower	Upper
84	100		
49	125.6	104.9	157.3
51	39.5	31.8	47.8
86	62.9	49.8	74.6



Instrument :
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ClientSampleId :
1028-MW-02MSD

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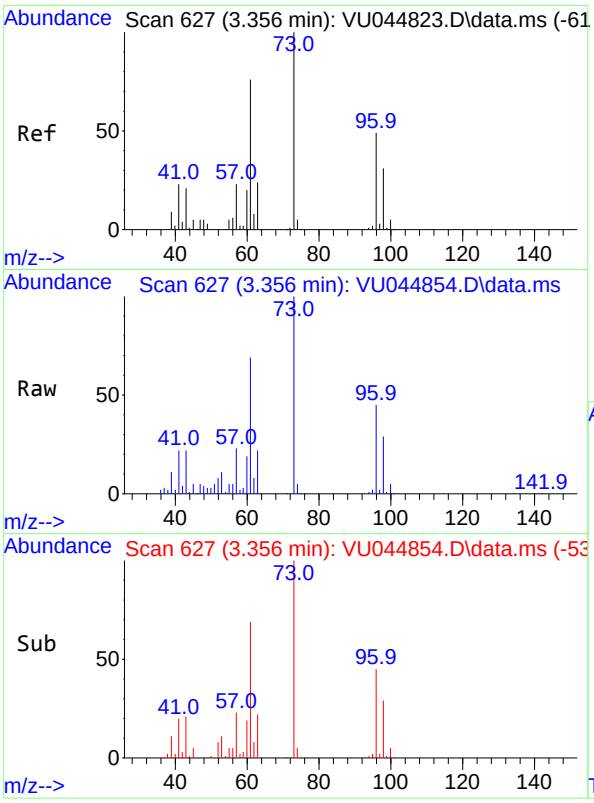
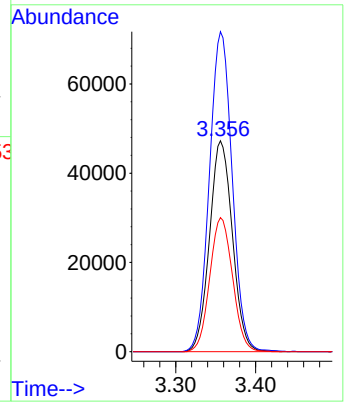
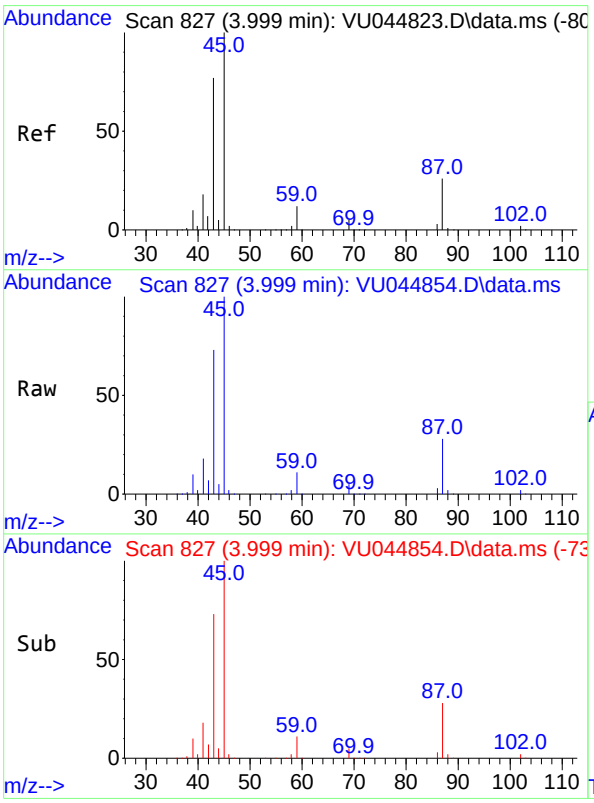


#21
trans-1,2-Dichloroethene
Concen: 49.312 ug/l
RT: 3.356 min Scan# 627
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 96 Resp: 94154

Ion	Ratio	Lower	Upper
96	100		
61	151.7	123.2	184.8
98	63.6	51.0	76.6

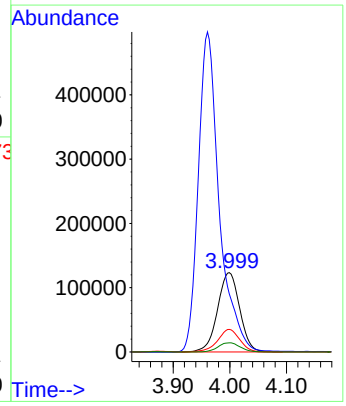




#22
Diisopropyl ether
Concen: 48.891 ug/l
RT: 3.999 min Scan# 827
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 45 Resp: 334365

Ion	Ratio	Lower	Upper
45	100		
43	72.6	62.3	93.5
87	28.5	21.0	31.4
59	11.5	9.5	14.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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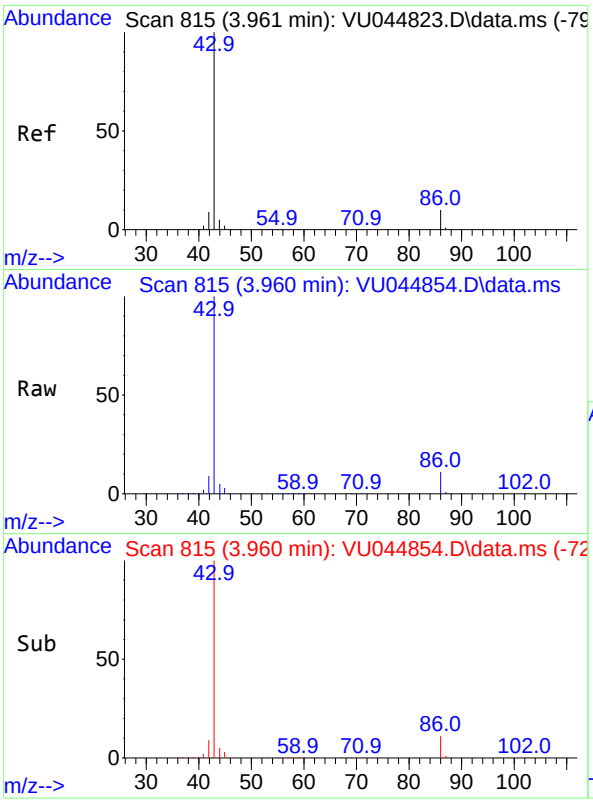
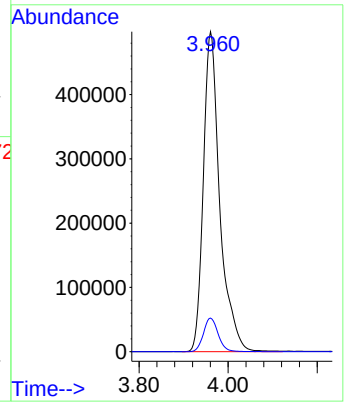
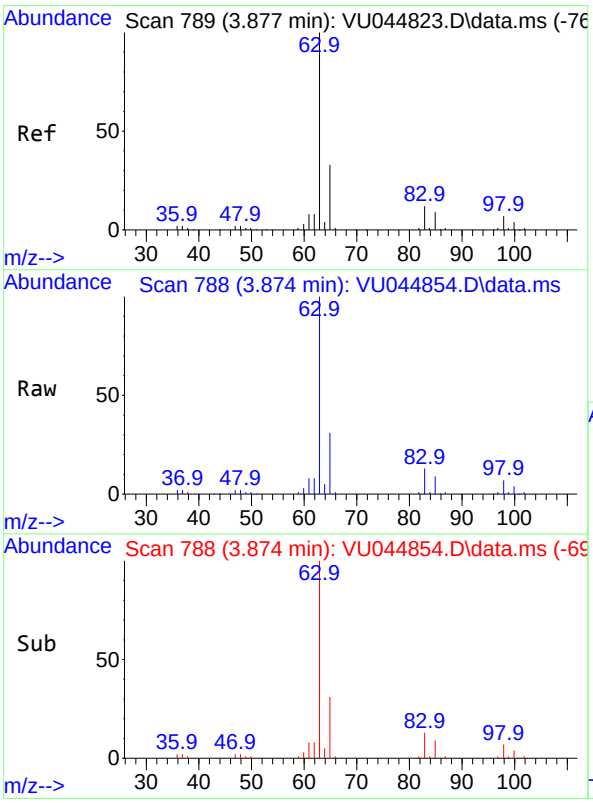


#23
Vinyl Acetate
Concen: 227.969 ug/l
RT: 3.960 min Scan# 815
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 1278533

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.4

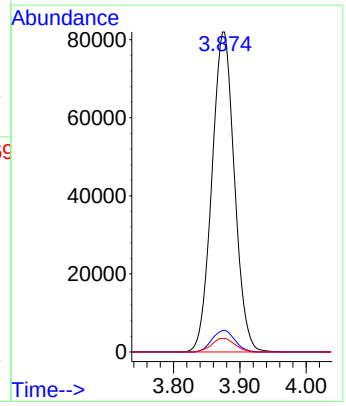




#24
1,1-Dichloroethane
Concen: 48.691 ug/l
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 63 Resp: 193282

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.4
100	4.2	2.1	6.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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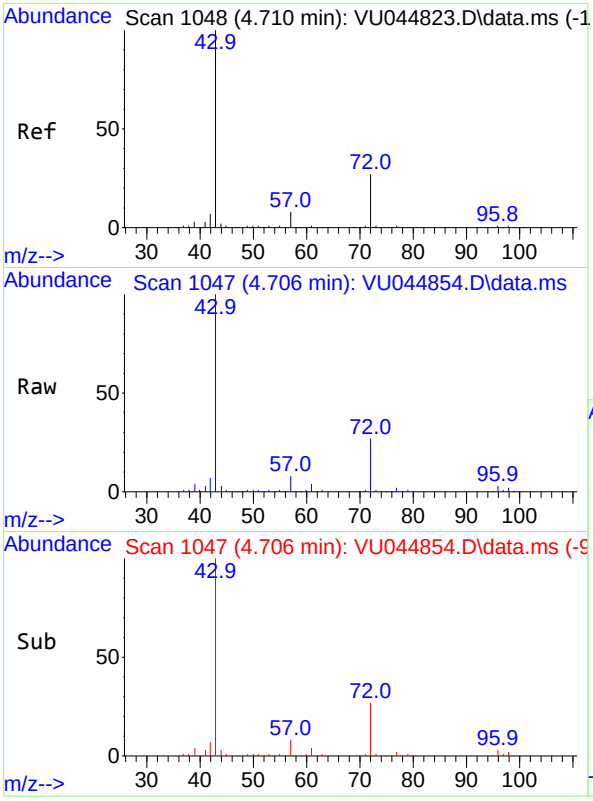
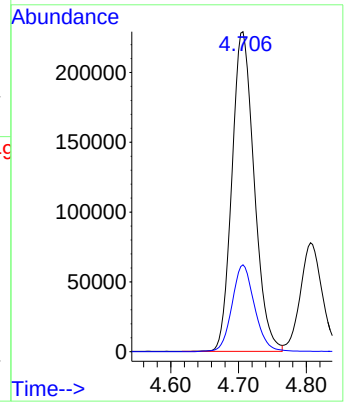
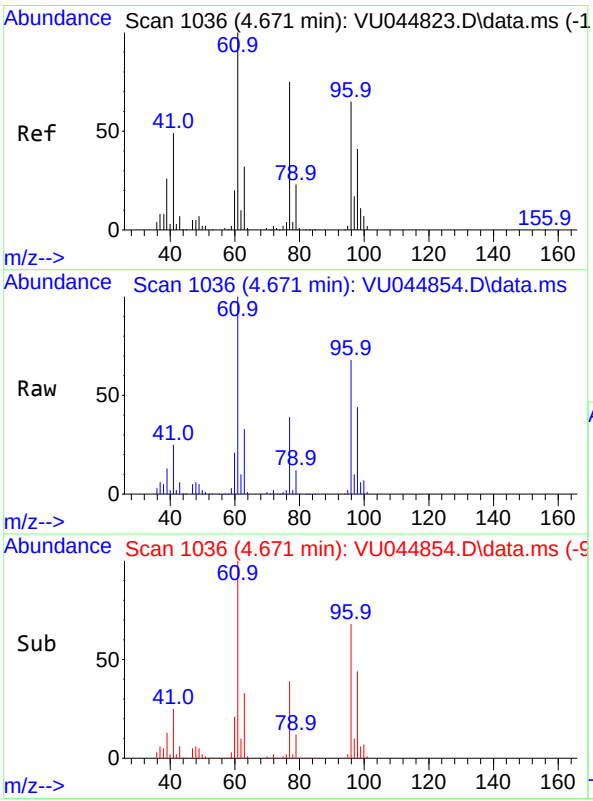


#25
2-Butanone
Concen: 236.315 ug/l
RT: 4.706 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 522810

Ion	Ratio	Lower	Upper
43	100		
72	27.2	21.3	31.9

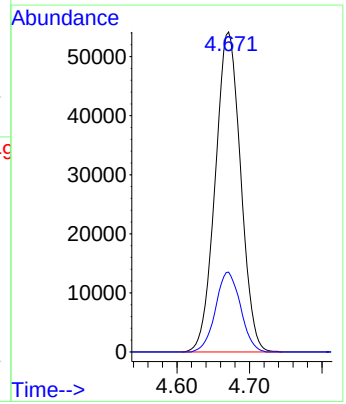




#26
2,2-Dichloropropane
Concen: 44.244 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 77 Resp: 131710

Ion	Ratio	Lower	Upper
77	100		
97	24.5	10.8	32.4



Instrument :
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ClientSampleId :
1028-MW-02MSD

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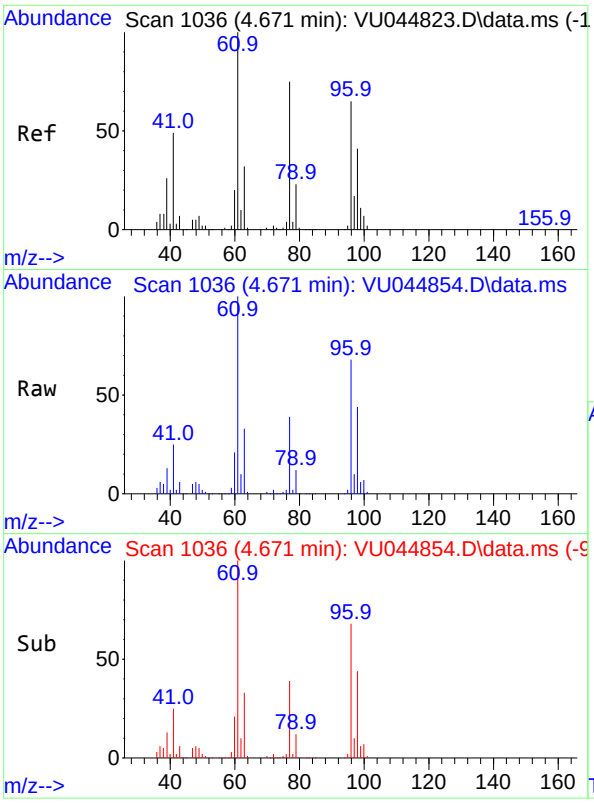
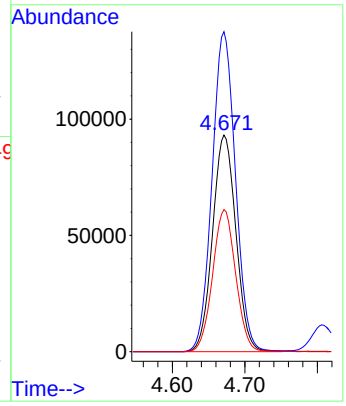
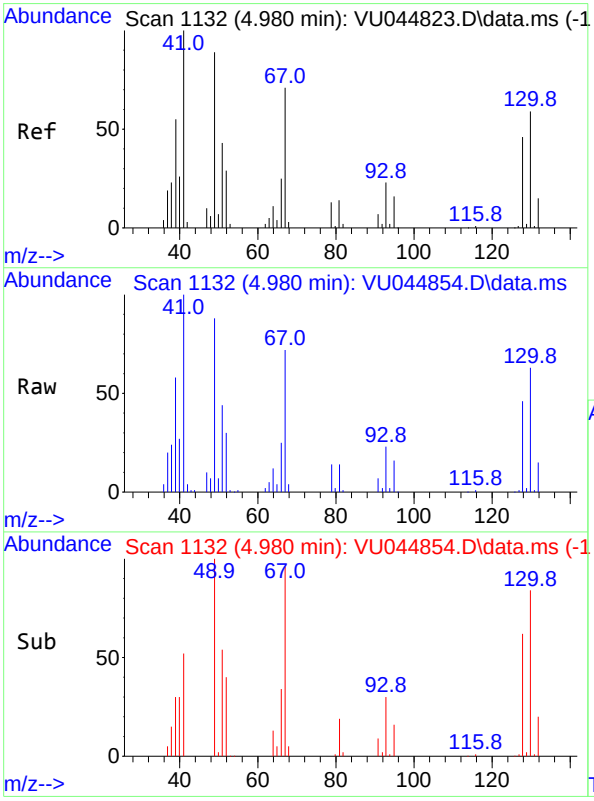


#27
cis-1,2-Dichloroethene
Concen: 89.745 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 96 Resp: 208406

Ion	Ratio	Lower	Upper
96	100		
61	147.9	0.0	313.4
98	64.8	0.0	127.0

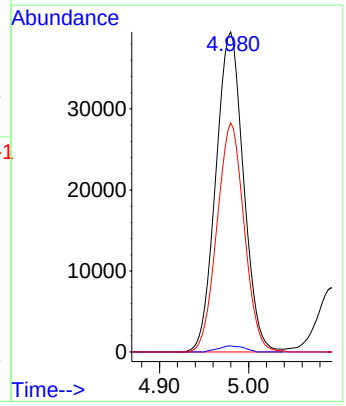




#28
Bromochloromethane
Concen: 45.232 ug/l
RT: 4.980 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 49 Resp: 85324

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	70.2	53.4	80.2



Instrument :
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ClientSampleId :
1028-MW-02MSD

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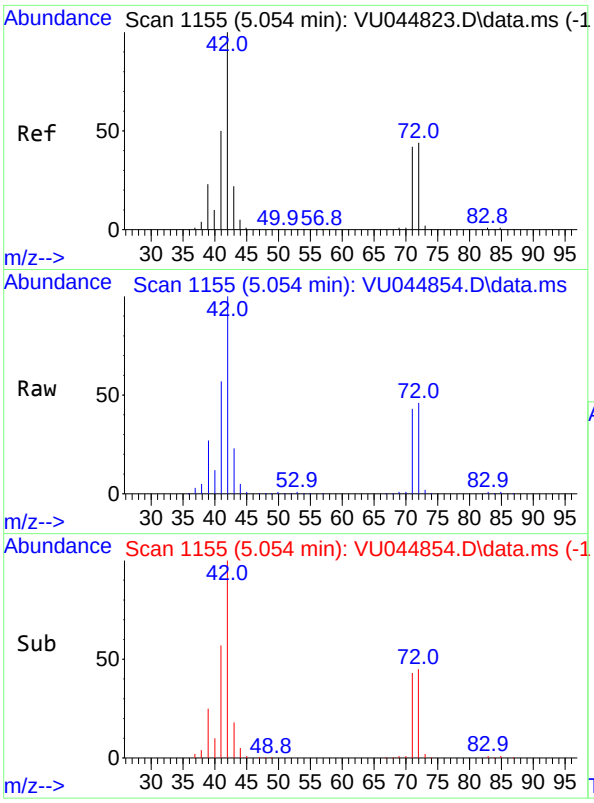
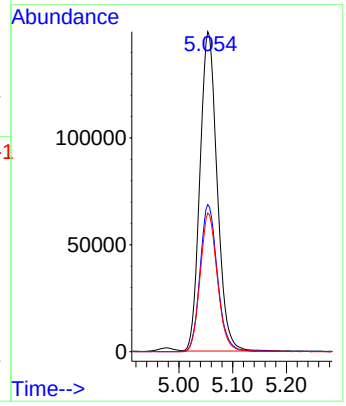
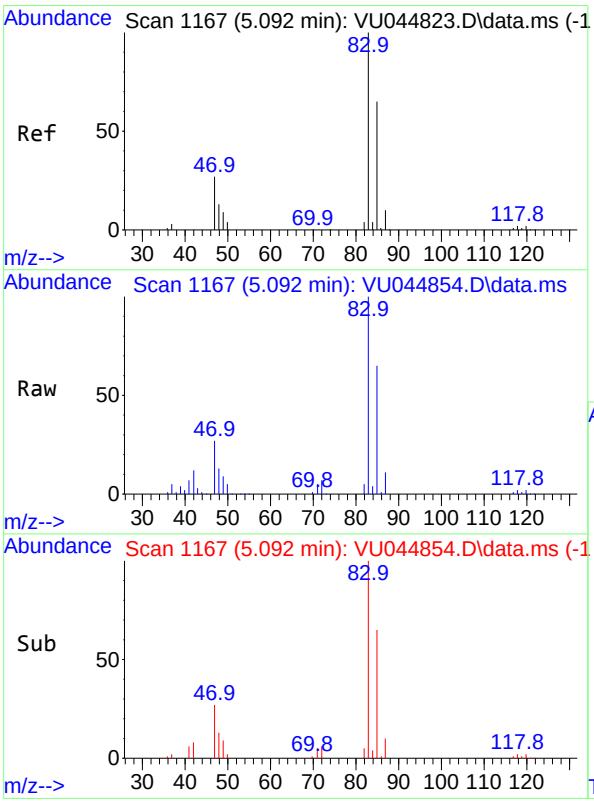


#29
Tetrahydrofuran
Concen: 238.542 ug/l
RT: 5.054 min Scan# 1155
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 42 Resp: 332011

Ion	Ratio	Lower	Upper
42	100		
72	46.5	36.2	54.4
71	43.3	34.1	51.1

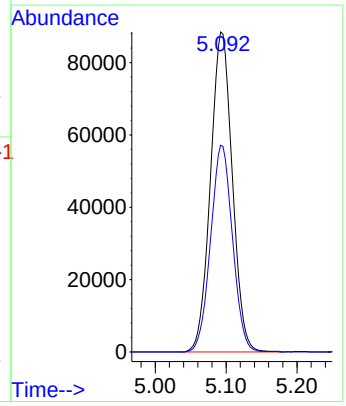




#30
Chloroform
Concen: 47.397 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 83 Resp: 189176

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.1	78.1



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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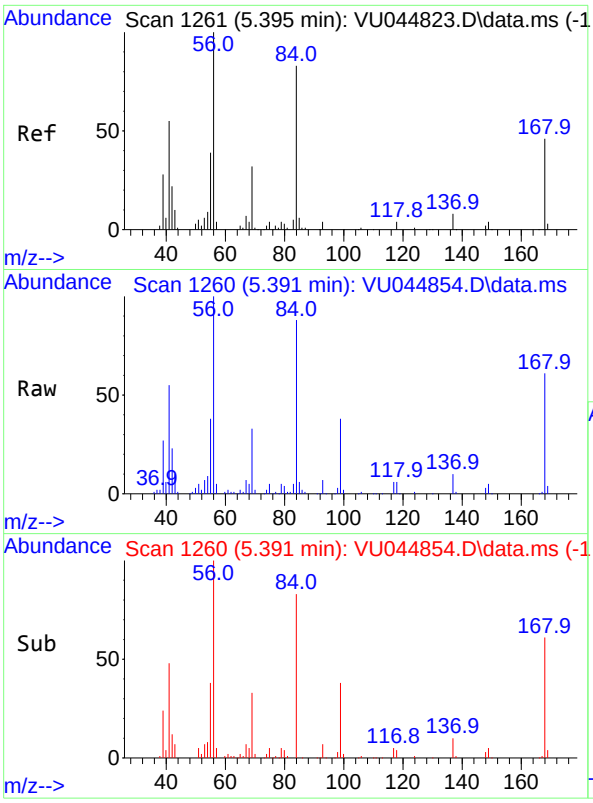
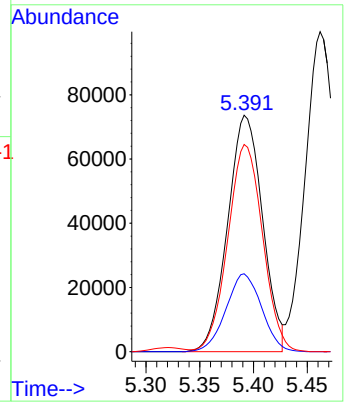
9/27/2021 11:03:08 AM

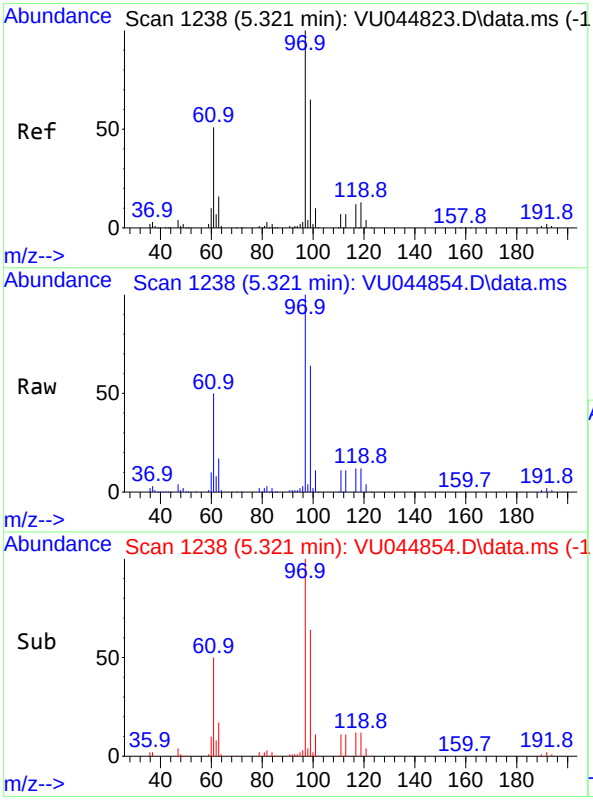


#31
Cyclohexane
Concen: 44.799 ug/l
RT: 5.391 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 56 Resp: 166257

Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.2	37.8
84	86.5	66.4	99.6

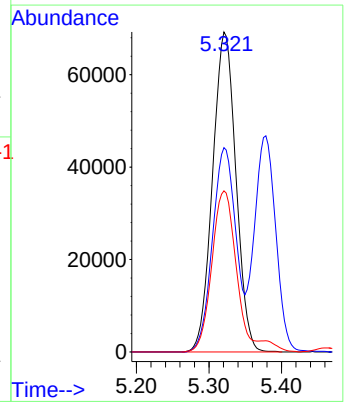




#32
1,1,1-Trichloroethane
Concen: 48.025 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 97 Resp: 154877

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.9	76.3
61	52.3	40.7	61.1



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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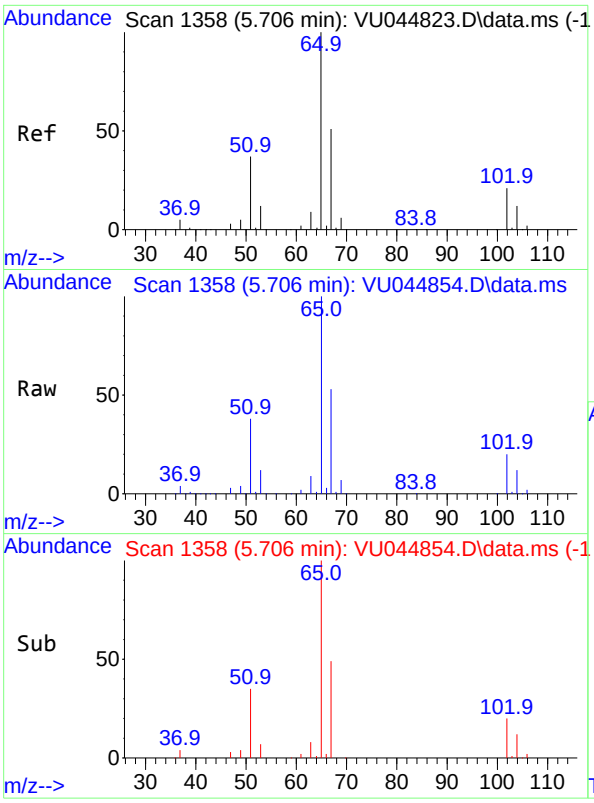
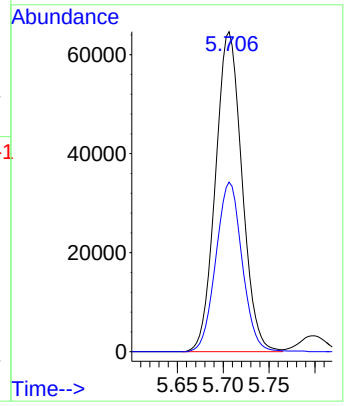
9/27/2021 11:03:08 AM

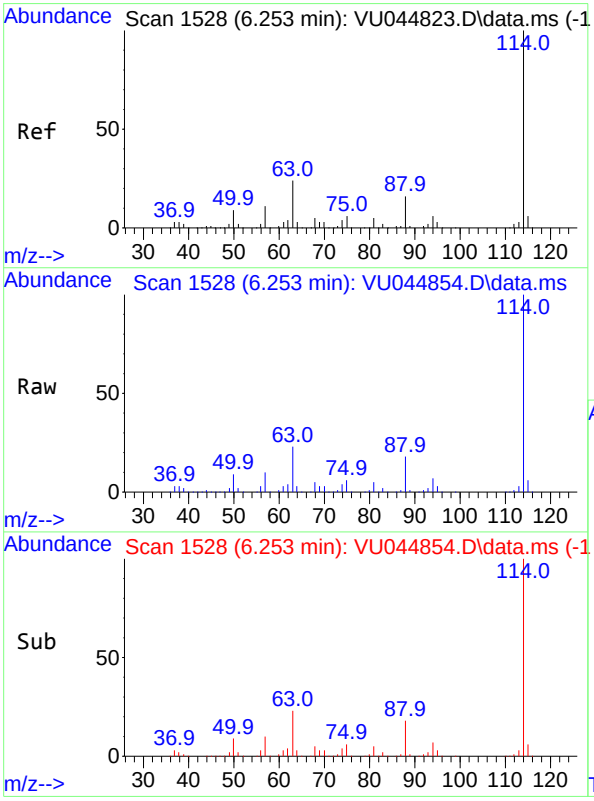


#33
1,2-Dichloroethane-d4
Concen: 50.231 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 65 Resp: 129844

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.8

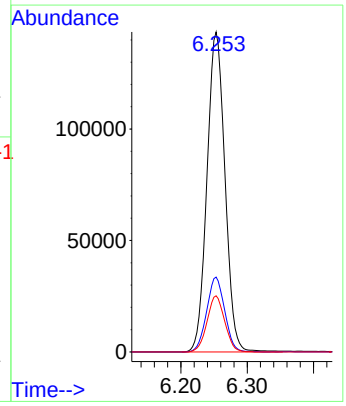




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:114 Resp: 270542

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	47.8
88	17.6	0.0	32.8



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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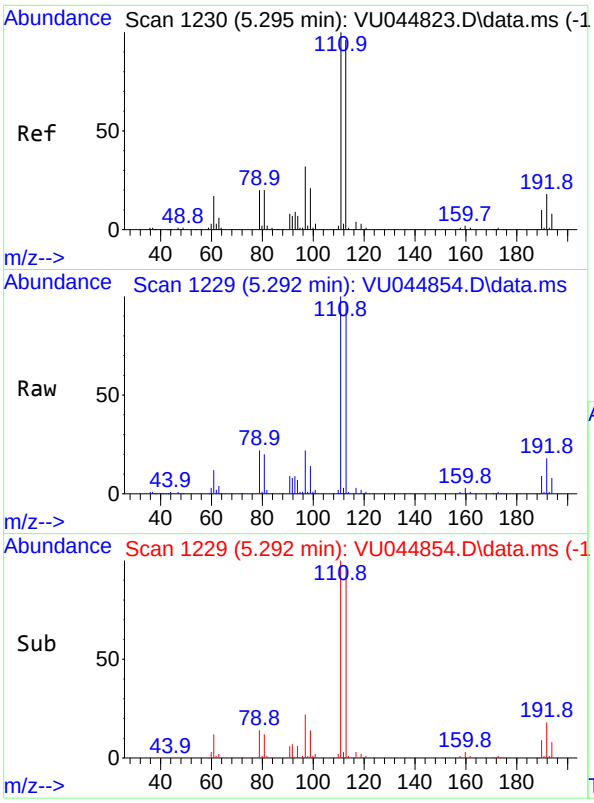
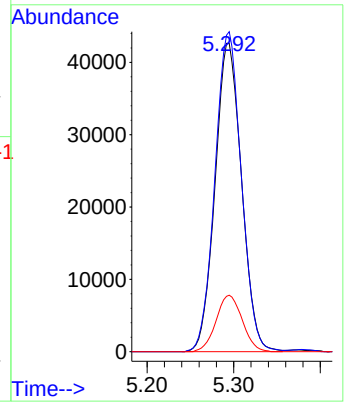
9/27/2021 11:03:08 AM

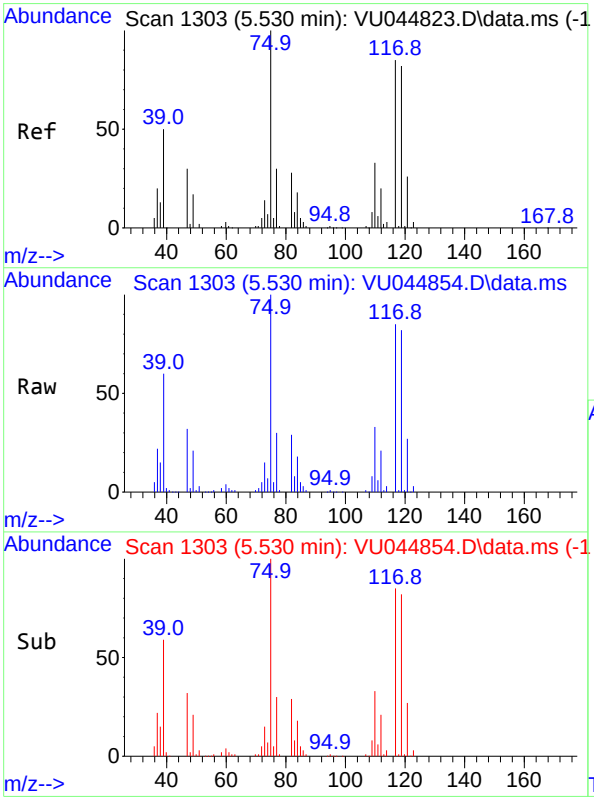


#35
Dibromofluoromethane
Concen: 48.853 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:113 Resp: 90670

Ion	Ratio	Lower	Upper
113	100		
111	103.3	84.1	126.1
192	18.1	14.8	22.2

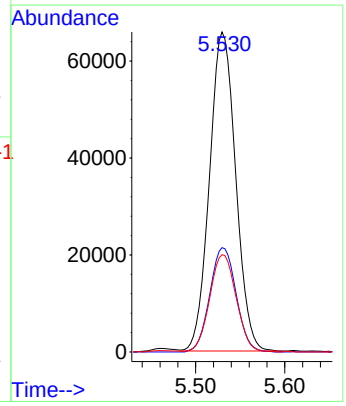




#36
1,1-Dichloropropene
Concen: 46.789 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 75 Resp: 134309

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.3	48.9
77	30.9	25.0	37.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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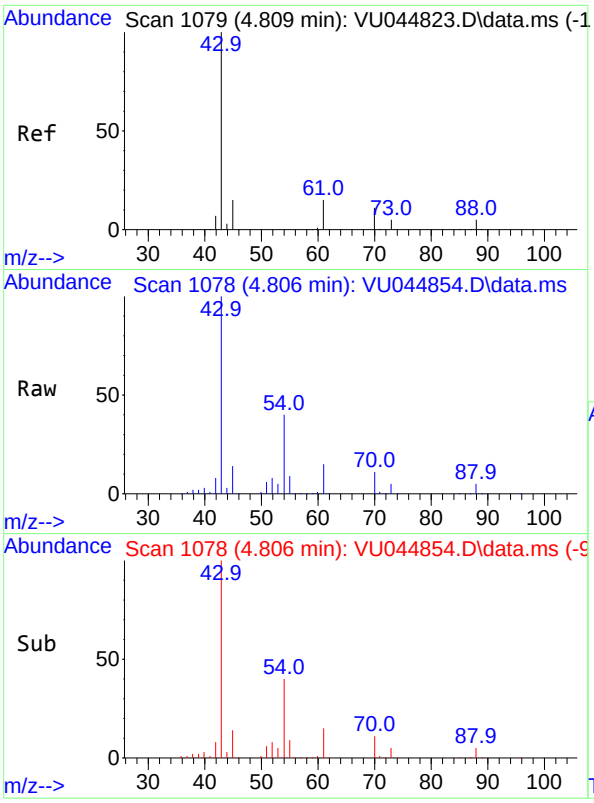
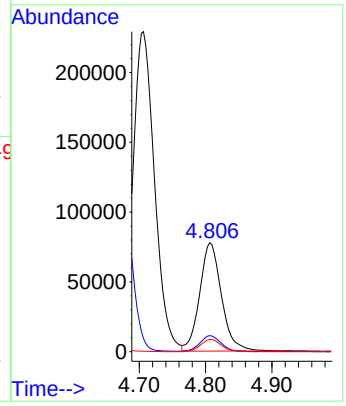
9/27/2021 11:03:08 AM

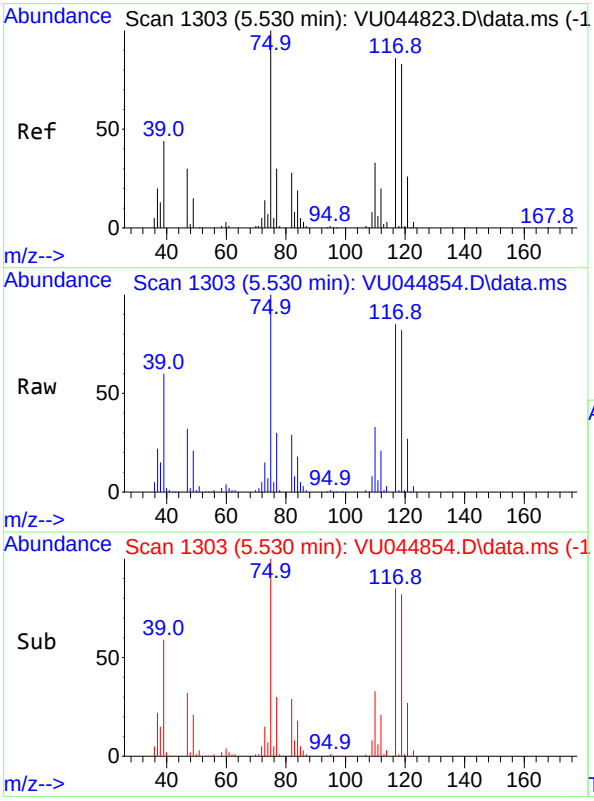


#37
Ethyl Acetate
Concen: 42.031 ug/l
RT: 4.806 min Scan# 1078
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 177028

Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.9	16.3
70	10.8	8.2	12.4

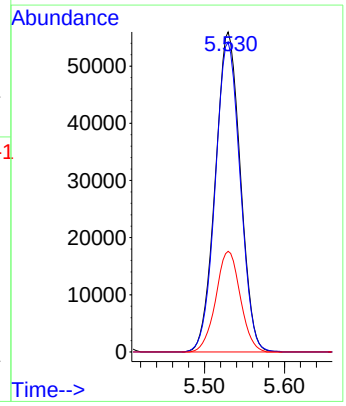




#38
Carbon Tetrachloride
Concen: 47.310 ug/l
RT: 5.530 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:117 Resp: 121408

Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.4	116.2
121	31.5	24.5	36.7



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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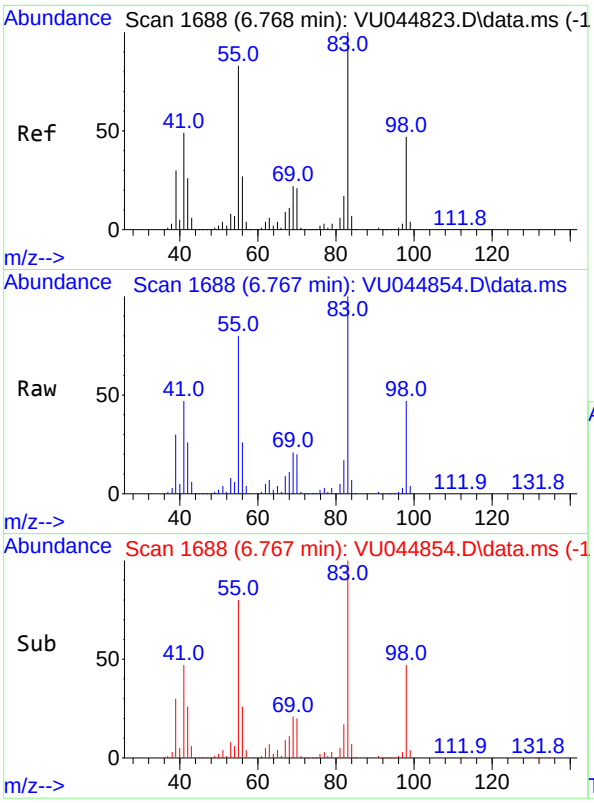
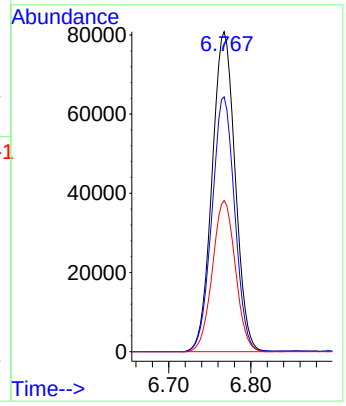
9/27/2021 11:03:08 AM

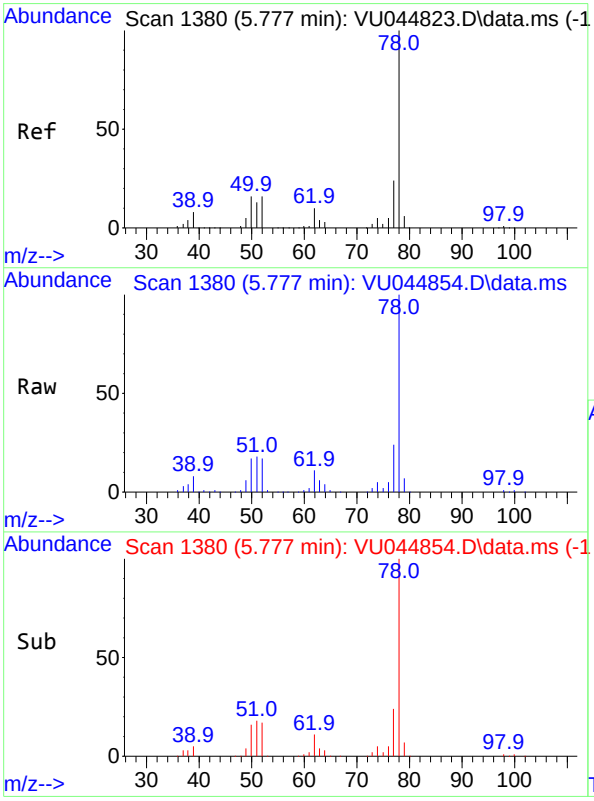


#39
Methylcyclohexane
Concen: 48.694 ug/l
RT: 6.767 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 83 Resp: 158089

Ion	Ratio	Lower	Upper
83	100		
55	79.6	66.2	99.4
98	47.2	37.5	56.3

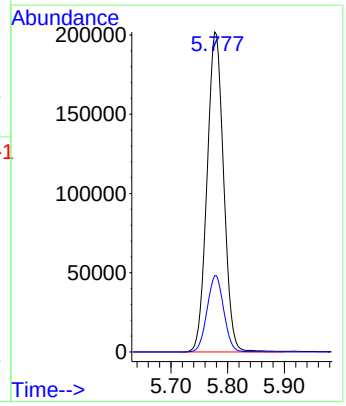




#40
Benzene
Concen: 46.925 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 78 Resp: 410676

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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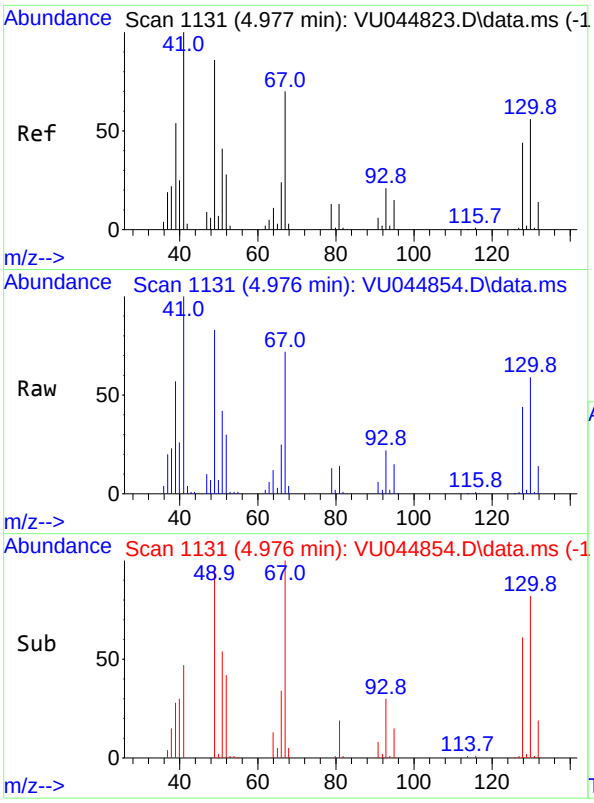
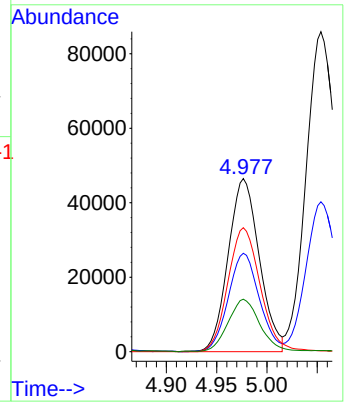
9/27/2021 11:03:08 AM

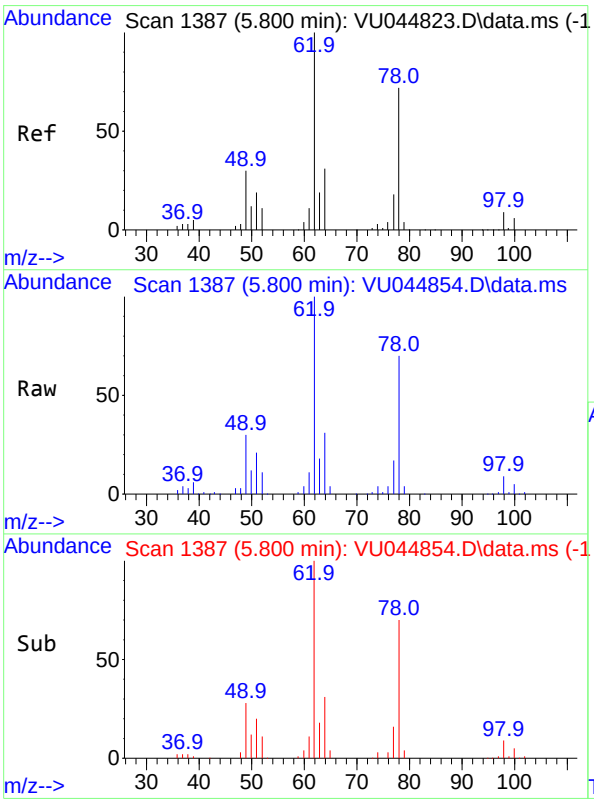


#41
Methacrylonitrile
Concen: 47.820 ug/l
RT: 4.976 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 41 Resp: 100534

Ion	Ratio	Lower	Upper
41	100		
39	56.7	44.4	66.6
67	74.4	58.1	87.1
52	30.3	23.8	35.8

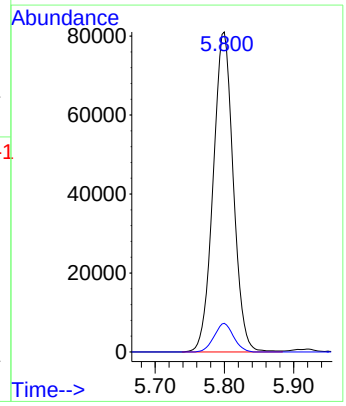




#42
1,2-Dichloroethane
Concen: 47.426 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 62 Resp: 163288

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.8



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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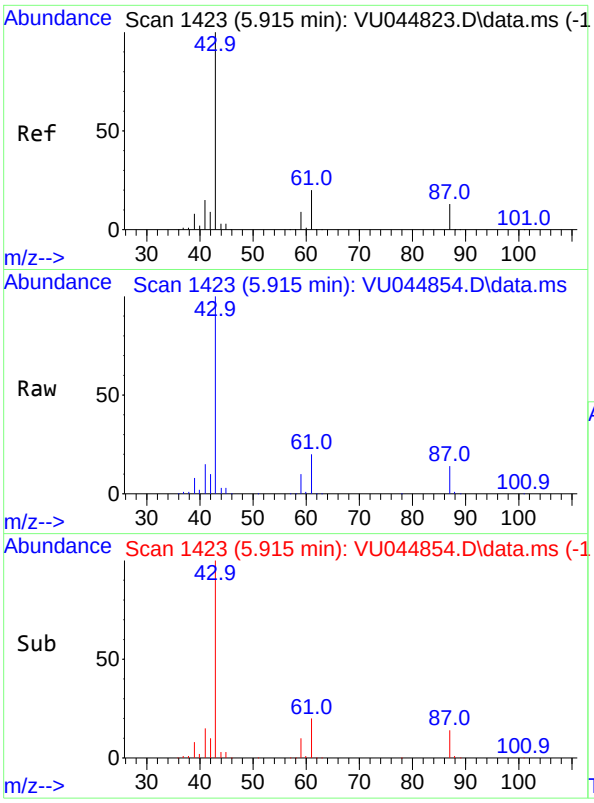
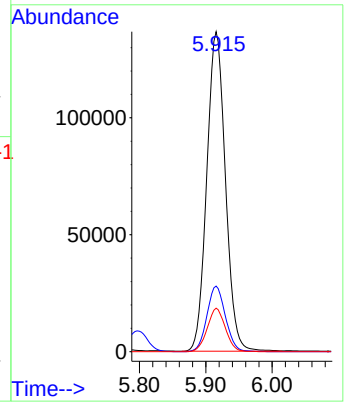
9/27/2021 11:03:08 AM

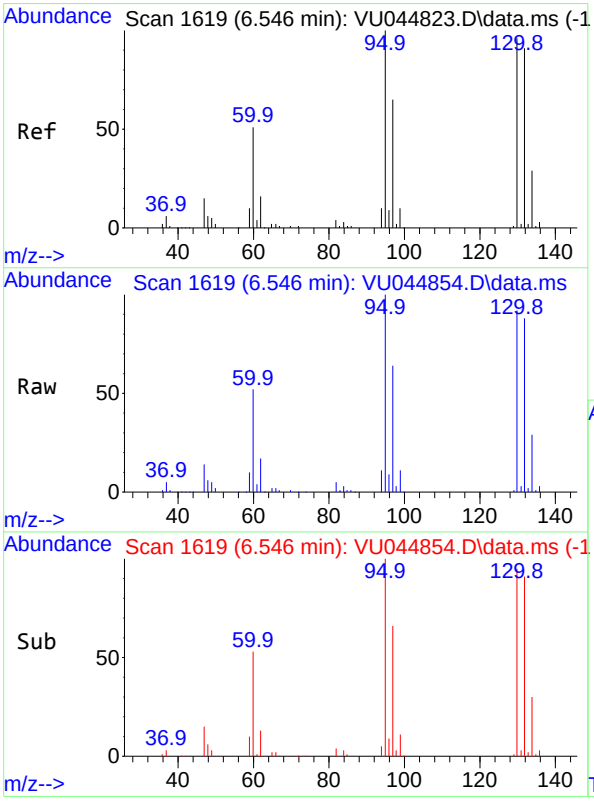


#43
Isopropyl Acetate
Concen: 45.205 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 266373

Ion	Ratio	Lower	Upper
43	100		
61	20.4	16.1	24.1
87	13.2	10.3	15.5

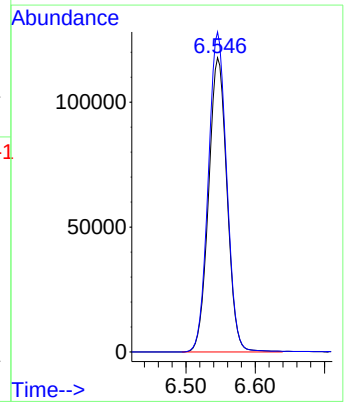




#44
Trichloroethene
Concen: 103.216 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:130 Resp: 217100

Ion	Ratio	Lower	Upper
130	100		
95	108.8	0.0	209.0



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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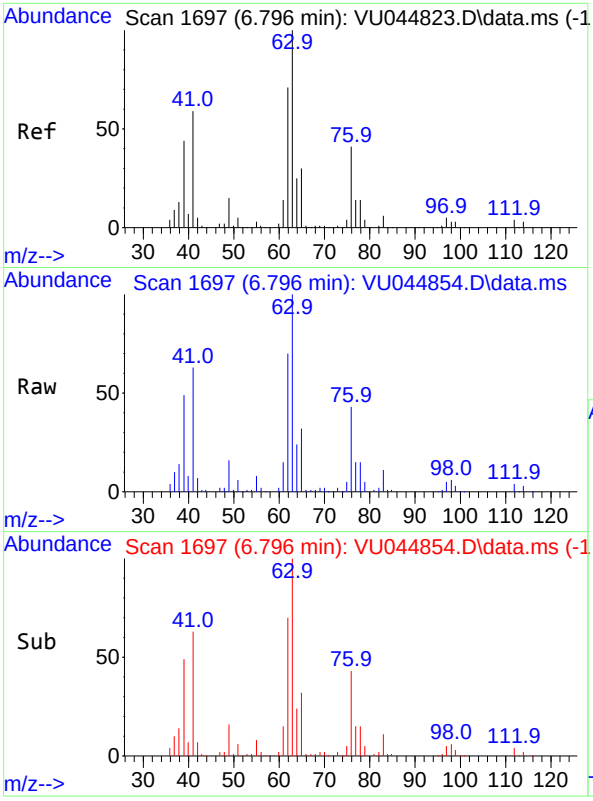
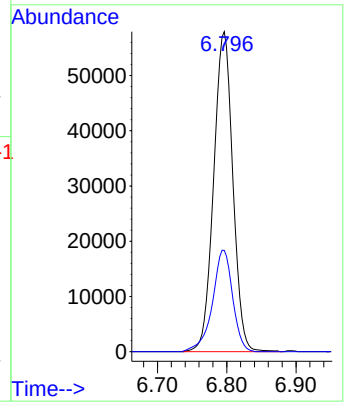
9/27/2021 11:03:08 AM

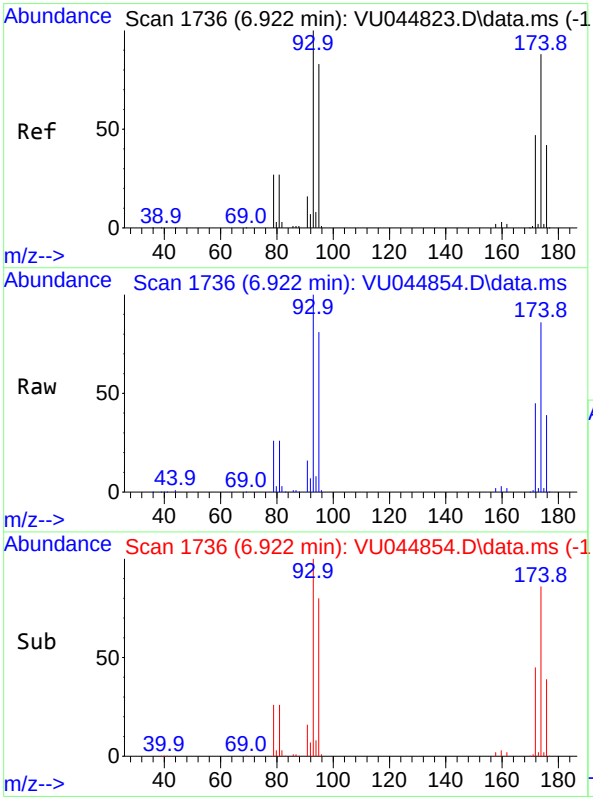


#45
1,2-Dichloropropane
Concen: 47.014 ug/l
RT: 6.796 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 63 Resp: 111355

Ion	Ratio	Lower	Upper
63	100		
65	31.7	23.9	35.9

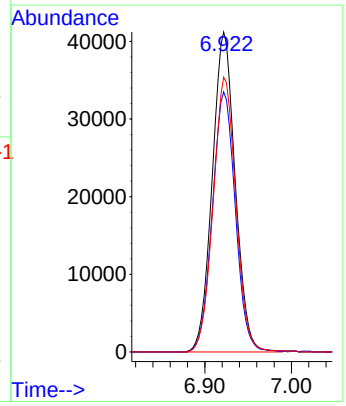




#46
Dibromomethane
Concen: 48.307 ug/l
RT: 6.922 min Scan# 1736
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 93 Resp: 75815

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.6	98.4
174	85.3	70.7	106.1



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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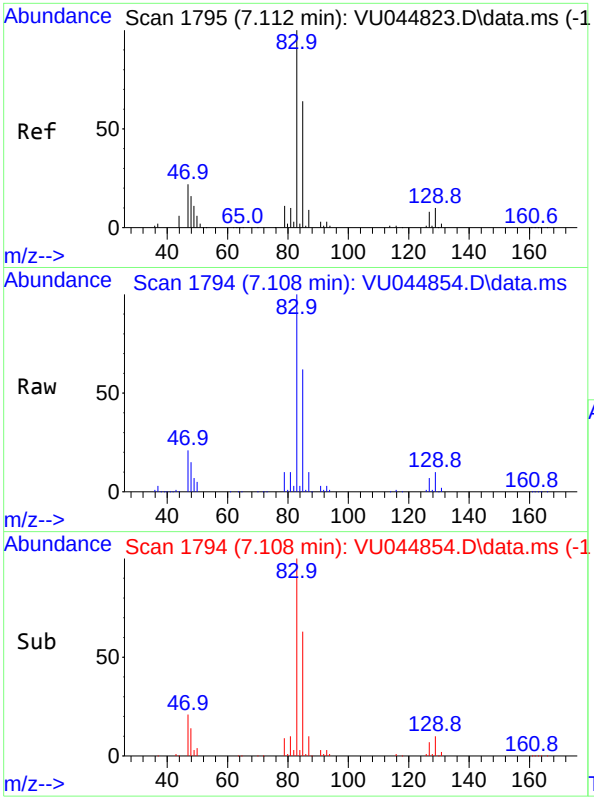
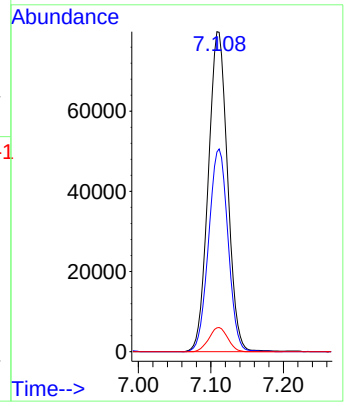
9/27/2021 11:03:08 AM

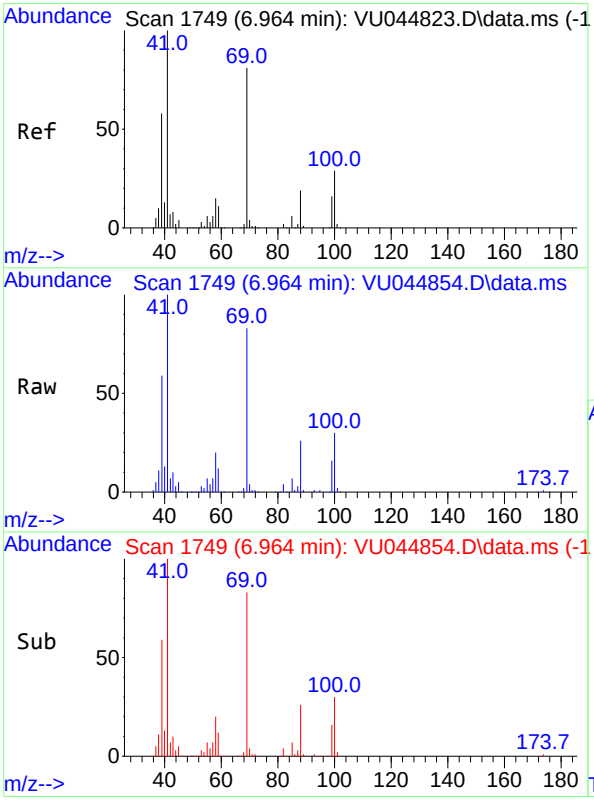


#47
Bromodichloromethane
Concen: 47.631 ug/l
RT: 7.108 min Scan# 1794
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 83 Resp: 147457

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.6	77.4
127	7.5	6.2	9.4

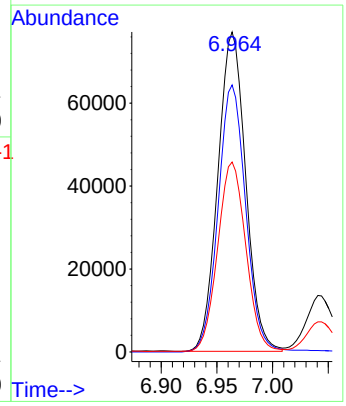




#48
Methyl methacrylate
Concen: 48.128 ug/l
RT: 6.964 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 41 Resp: 133857

Ion	Ratio	Lower	Upper
41	100		
69	83.7	65.6	98.4
39	60.1	46.2	69.4



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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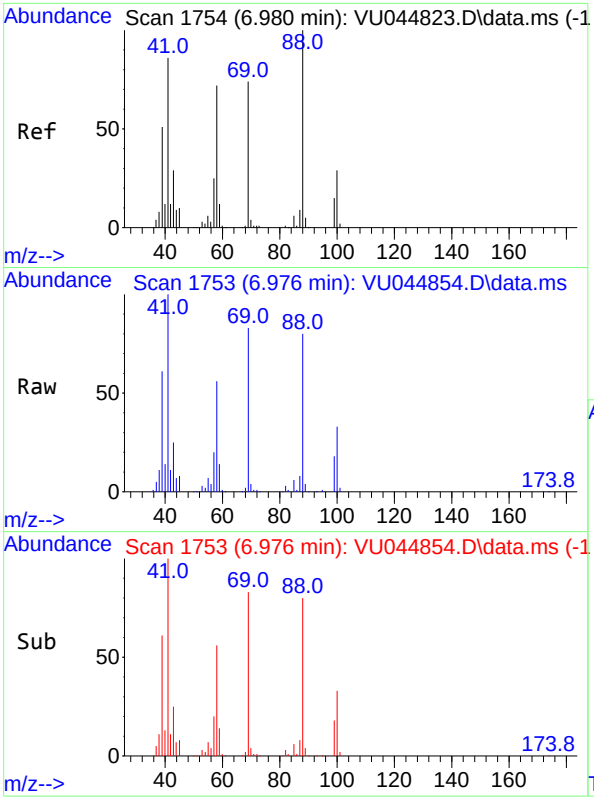
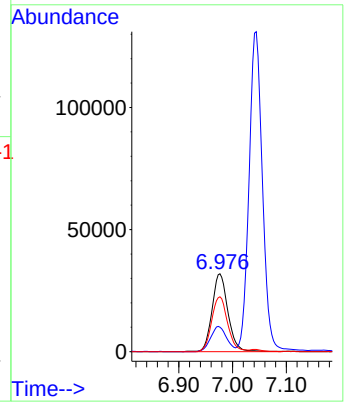
9/27/2021 11:03:08 AM

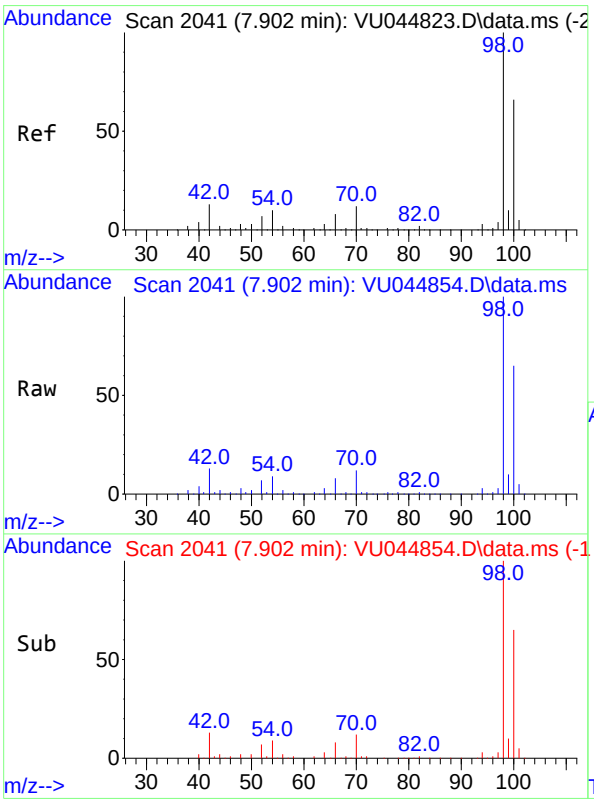


#49
1,4-Dioxane
Concen: 923.831 ug/l
RT: 6.976 min Scan# 1753
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 88 Resp: 65668

Ion	Ratio	Lower	Upper
88	100		
43	32.6	25.8	38.6
58	70.5	61.3	91.9

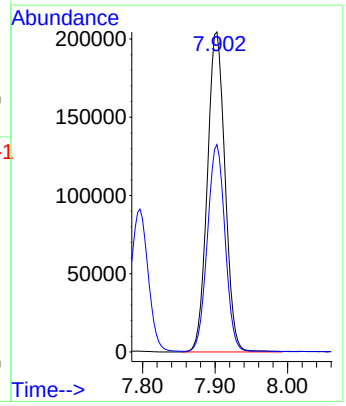




#50
Toluene-d8
Concen: 49.497 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 98 Resp: 346953

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.5	78.7



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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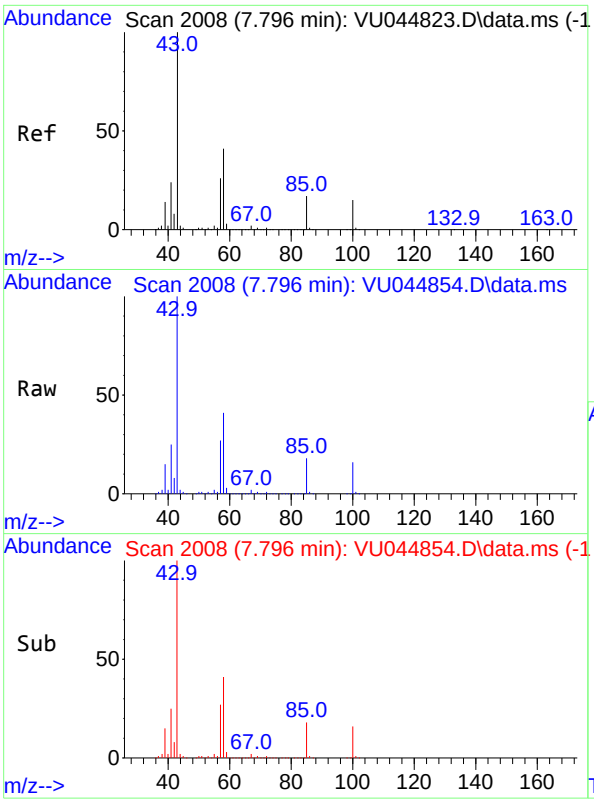
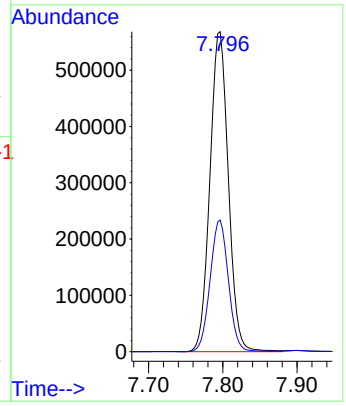
9/27/2021 11:03:08 AM

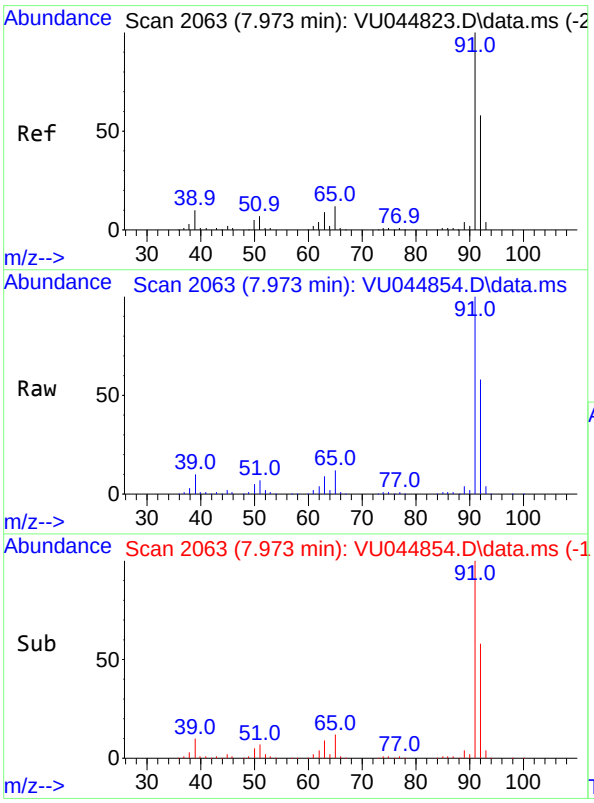


#51
4-Methyl-2-Pentanone
Concen: 232.628 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 976957

Ion	Ratio	Lower	Upper
43	100		
58	40.9	32.4	48.6

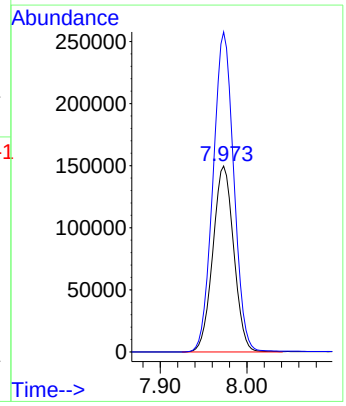




#52
Toluene
Concen: 47.994 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 92 Resp: 251123

Ion	Ratio	Lower	Upper
92	100		
91	171.3	136.9	205.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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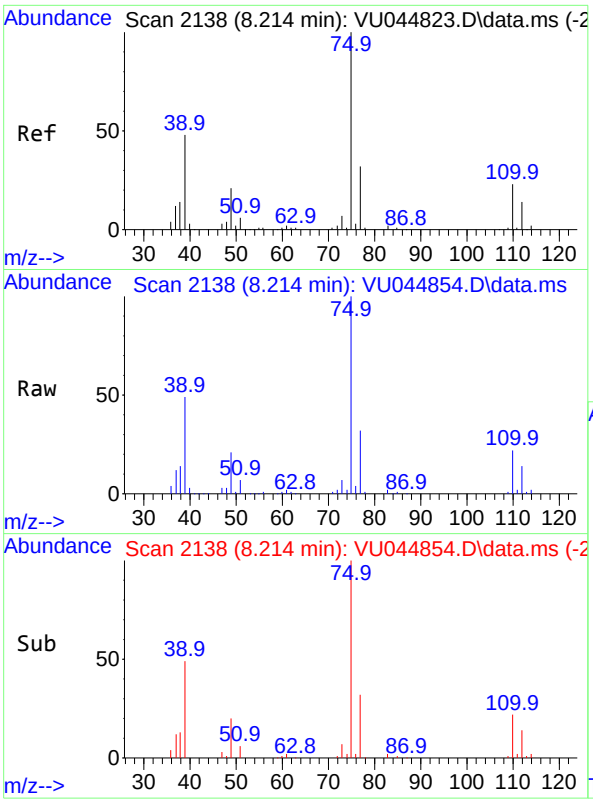
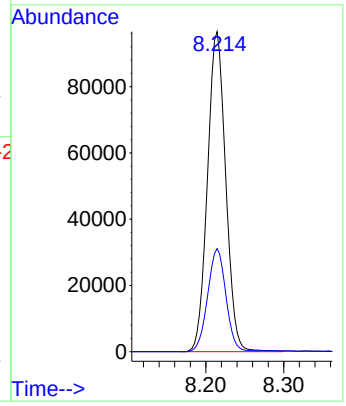
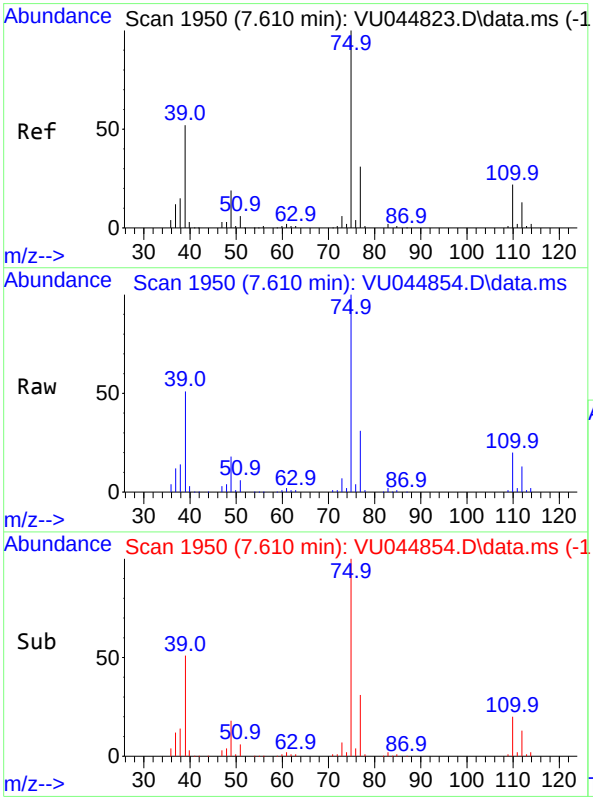


#53
t-1,3-Dichloropropene
Concen: 48.701 ug/l
RT: 8.214 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 75 Resp: 157075

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.6	38.4

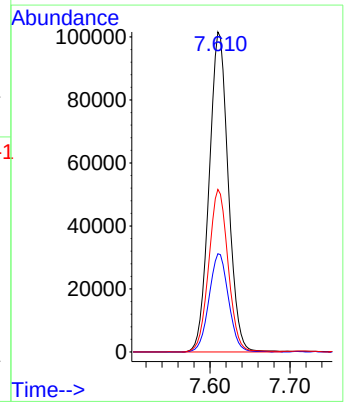




#54
cis-1,3-Dichloropropene
Concen: 48.282 ug/l
RT: 7.610 min Scan# 1950
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 75 Resp: 168644

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.0	37.6
39	50.8	41.4	62.2



Instrument :
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ClientSampleId :
1028-MW-02MSD

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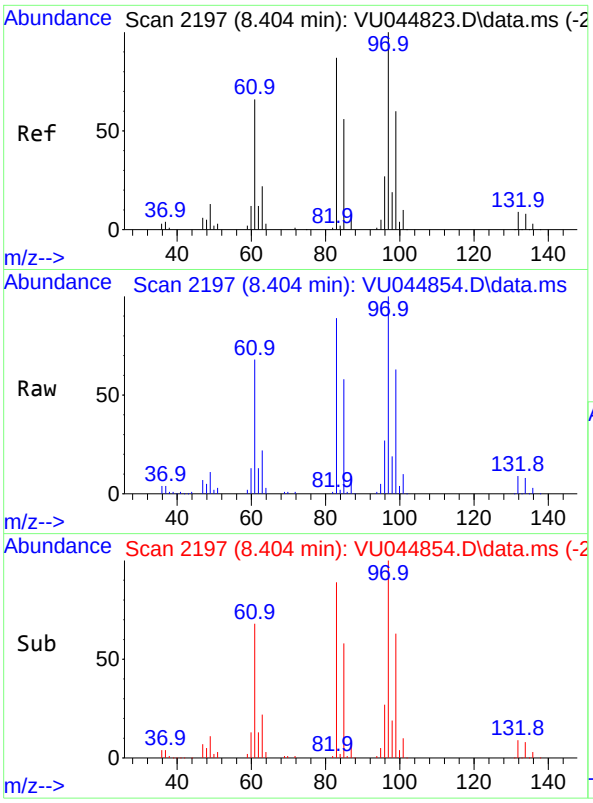
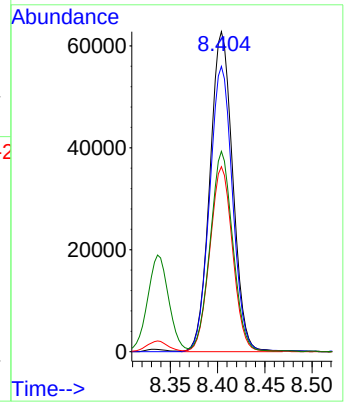
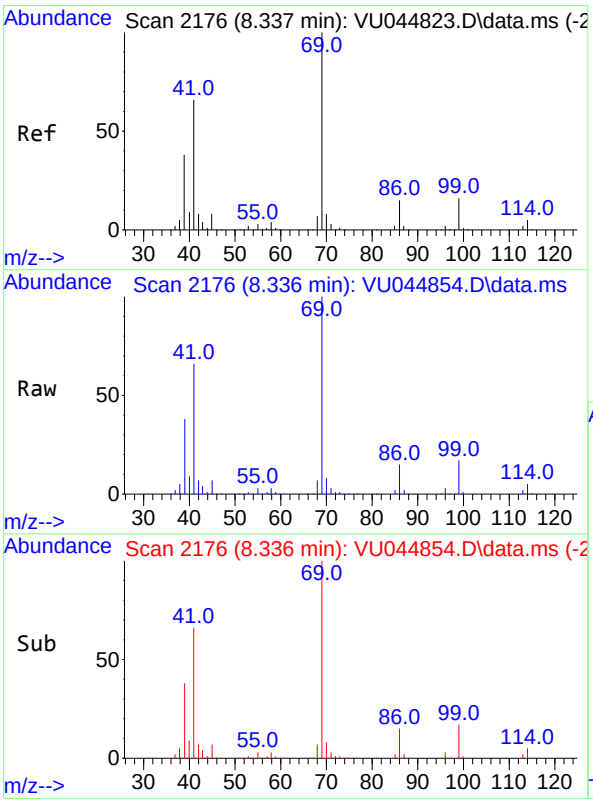


#55
1,1,2-Trichloroethane
Concen: 47.188 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 97 Resp: 105562

Ion	Ratio	Lower	Upper
97	100		
83	89.2	69.7	104.5
85	57.6	44.8	67.2
99	62.3	49.3	73.9

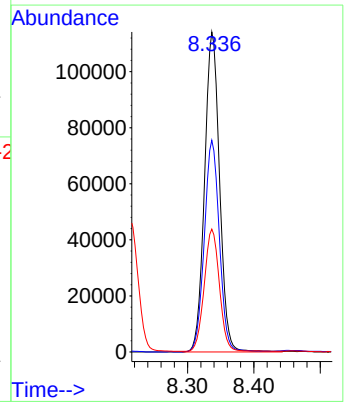




#56
Ethyl methacrylate
Concen: 45.152 ug/l
RT: 8.336 min Scan# 2176
Delta R.T. -0.001 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 69 Resp: 179163

Ion	Ratio	Lower	Upper
69	100		
41	66.8	53.5	80.3
39	38.6	31.1	46.7



Instrument :
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ClientSampleId :
1028-MW-02MSD

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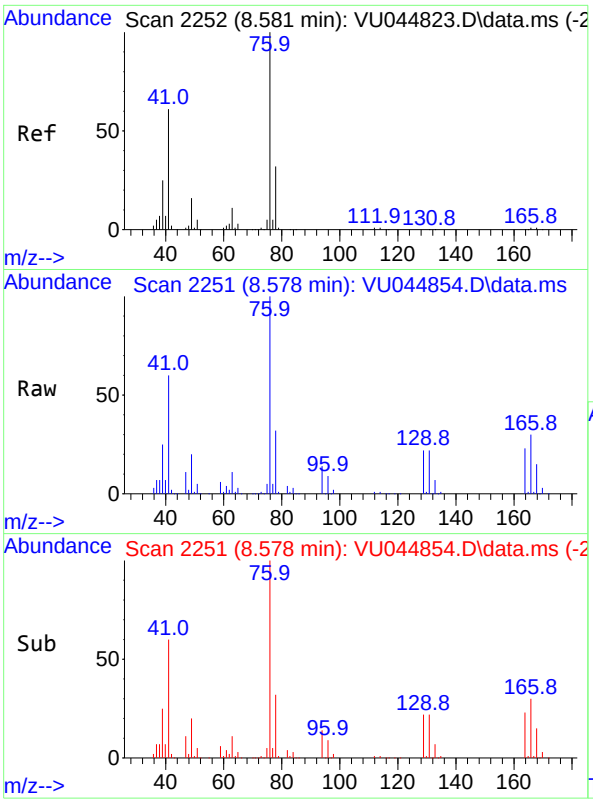
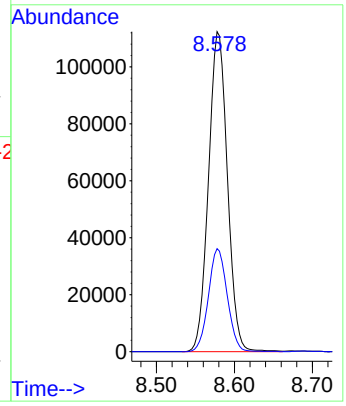
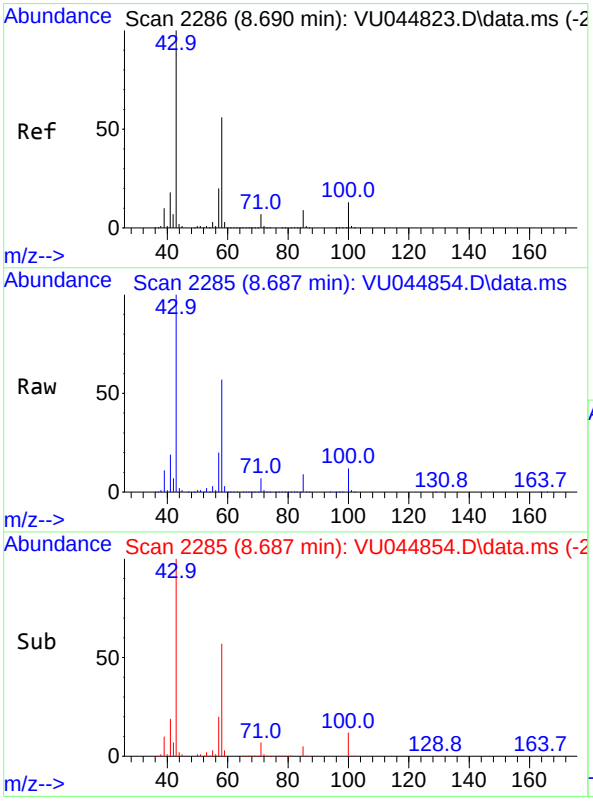


#57
1,3-Dichloropropane
Concen: 47.503 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 76 Resp: 189226

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.7	38.5

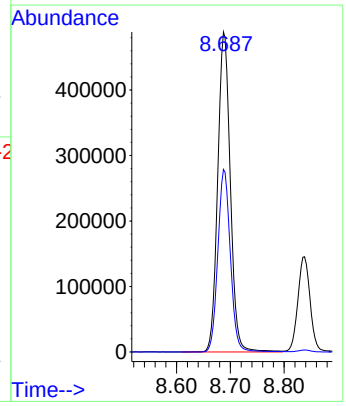




#59
2-Hexanone
Concen: 235.686 ug/l
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 794498

Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.0	84.0



Instrument :
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ClientSampleId :
1028-MW-02MSD

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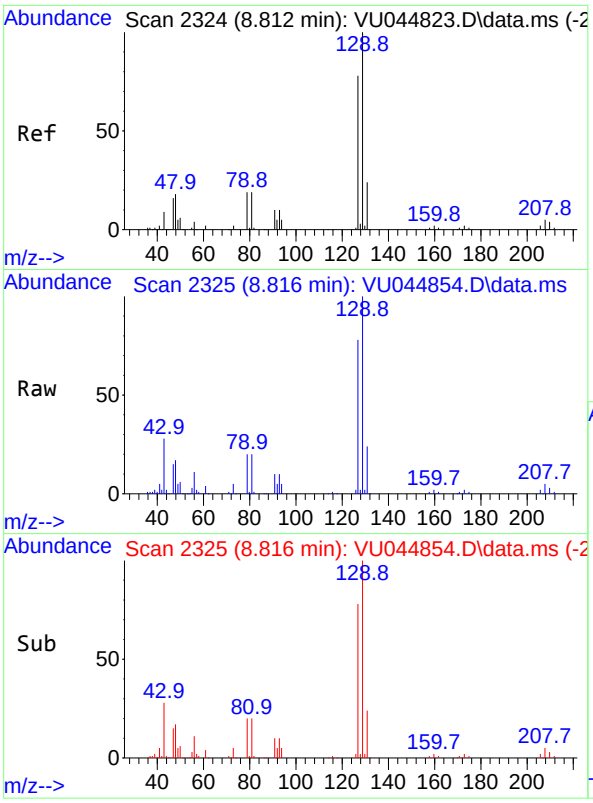
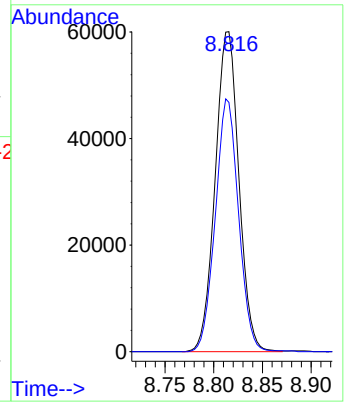
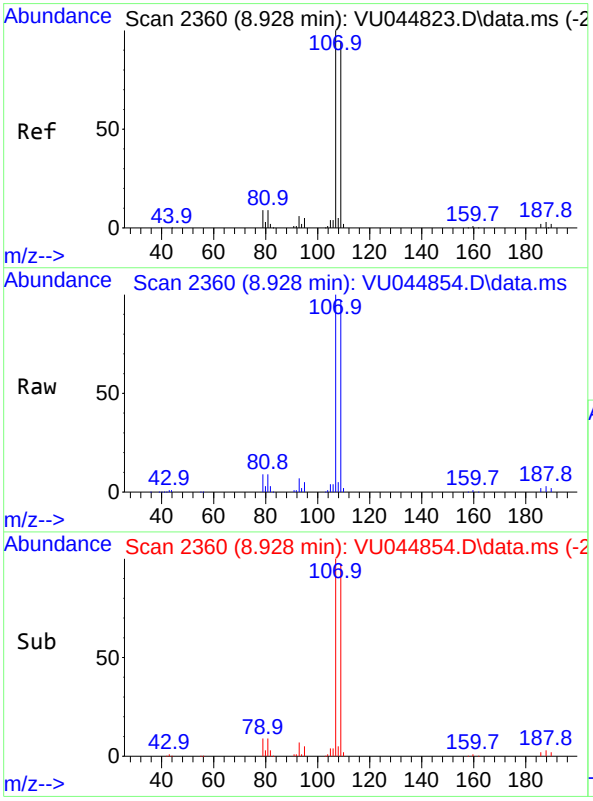


#60
Dibromochloromethane
Concen: 47.408 ug/l
RT: 8.816 min Scan# 2325
Delta R.T. 0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:129 Resp: 101559

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.0	117.0

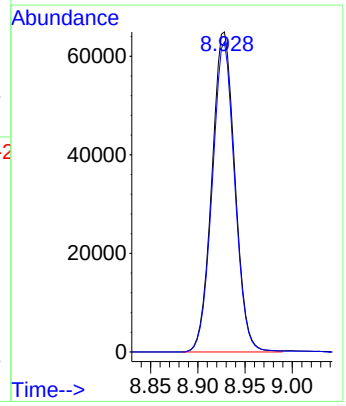




#61
1,2-Dibromoethane
Concen: 46.873 ug/l
RT: 8.928 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:107 Resp: 110100

Ion	Ratio	Lower	Upper
107	100		
109	94.5	74.8	112.2



Instrument :
MSVOA_U
ClientSampleId :
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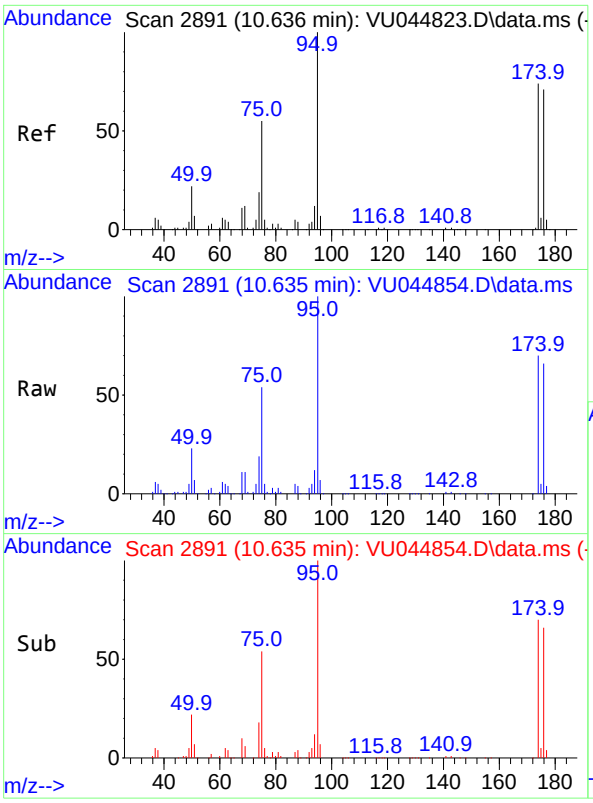
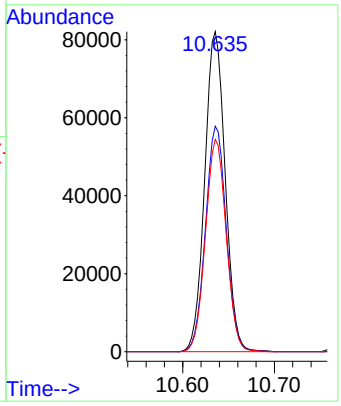
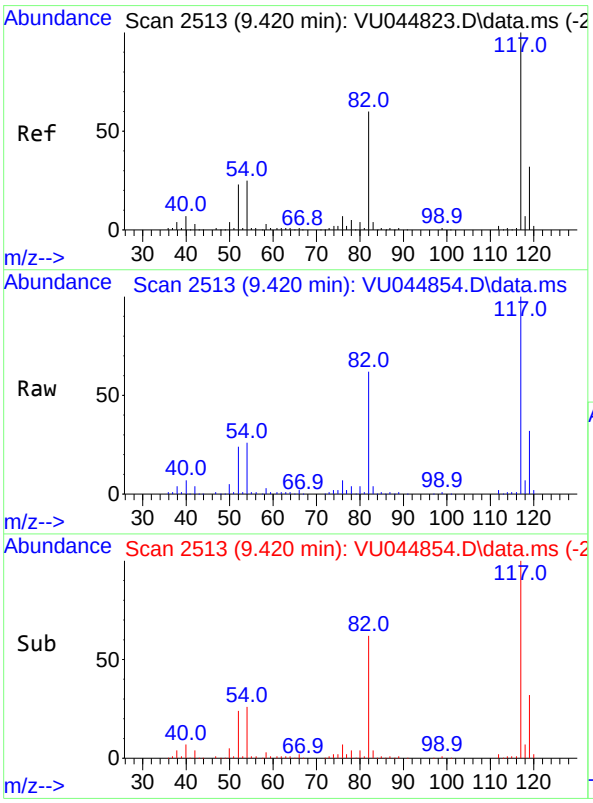


#62
4-Bromofluorobenzene
Concen: 48.968 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 95 Resp: 127489

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	146.6
176	67.1	0.0	141.2

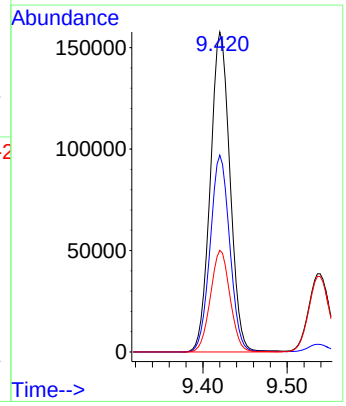




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:117 Resp: 256005

Ion	Ratio	Lower	Upper
117	100		
82	61.5	47.8	71.8
119	31.8	25.8	38.6



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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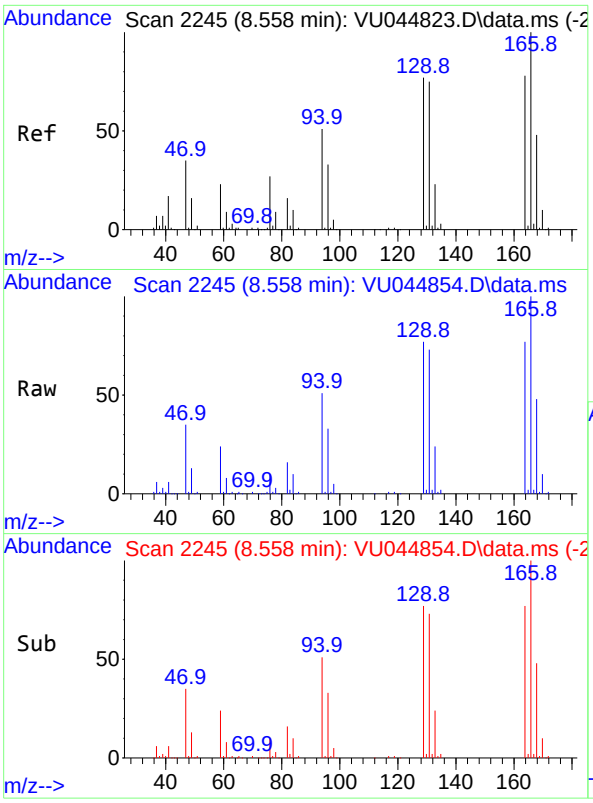
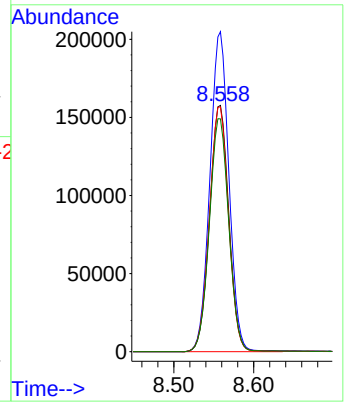
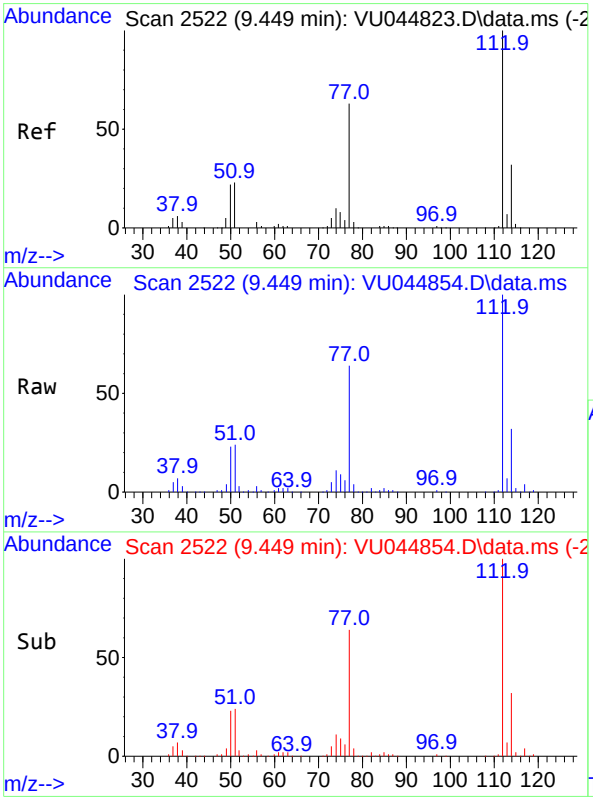


#64
Tetrachloroethene
Concen: 152.651 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:164 Resp: 264889

Ion	Ratio	Lower	Upper
164	100		
166	130.0	102.8	154.2
129	99.4	79.4	119.2
131	94.5	77.4	116.2

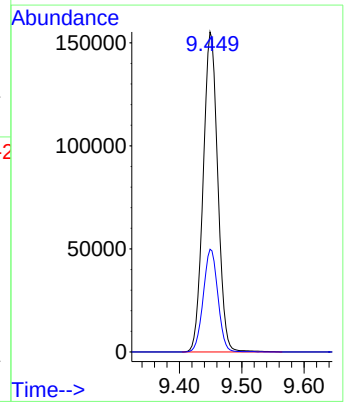




#65
Chlorobenzene
Concen: 47.536 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:112 Resp: 252633

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.9	38.9



Instrument :
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ClientSampleId :
1028-MW-02MSD

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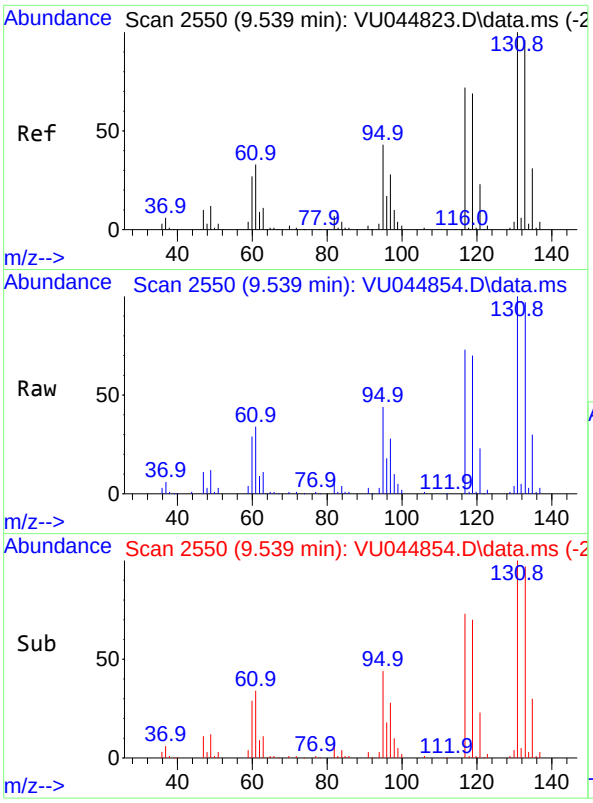
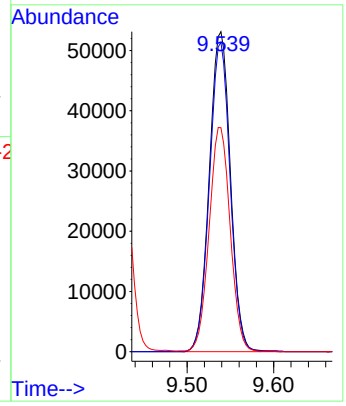
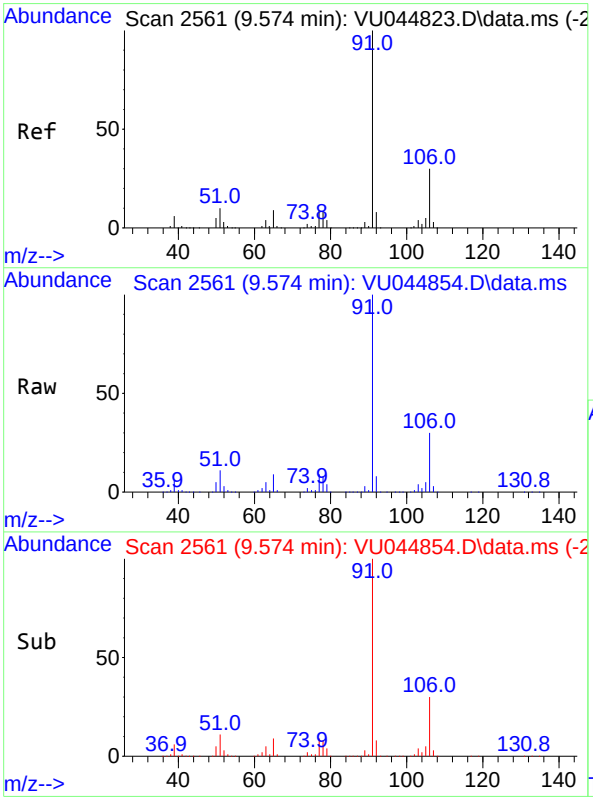


#66
1,1,1,2-Tetrachloroethane
Concen: 47.508 ug/l
RT: 9.539 min Scan# 2550
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:131 Resp: 90055

Ion	Ratio	Lower	Upper
131	100		
133	94.7	48.1	144.3
119	70.0	34.1	102.3

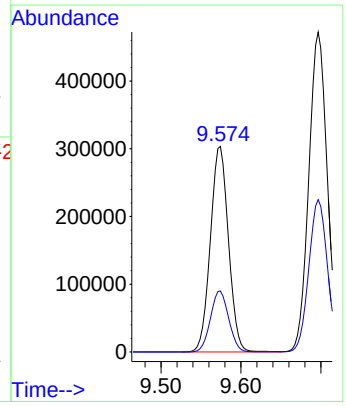




#67
Ethyl Benzene
Concen: 50.339 ug/l
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 91 Resp: 477513

Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.3	36.5



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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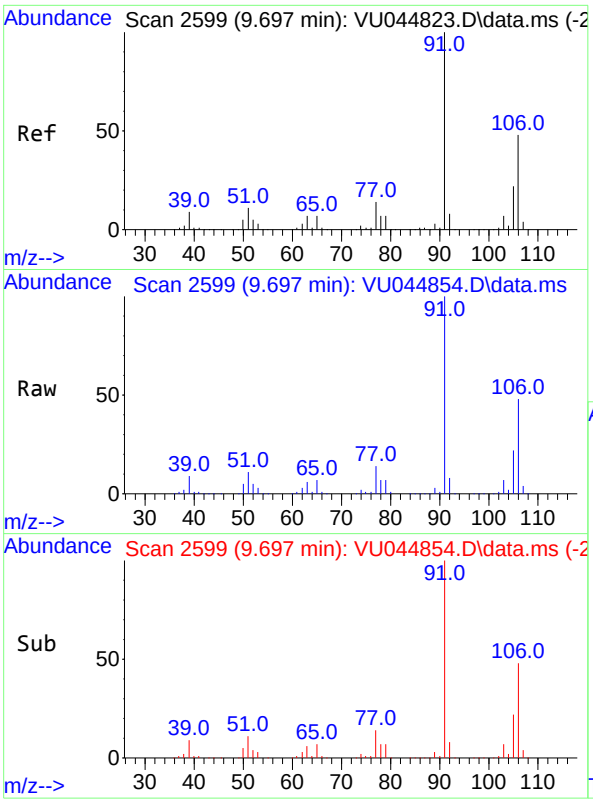
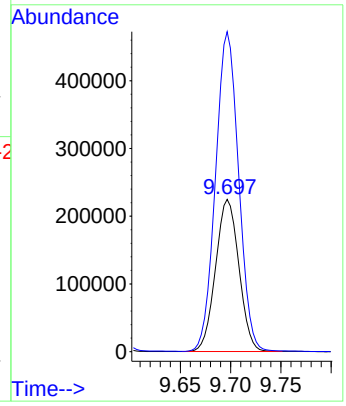
9/27/2021 11:03:08 AM

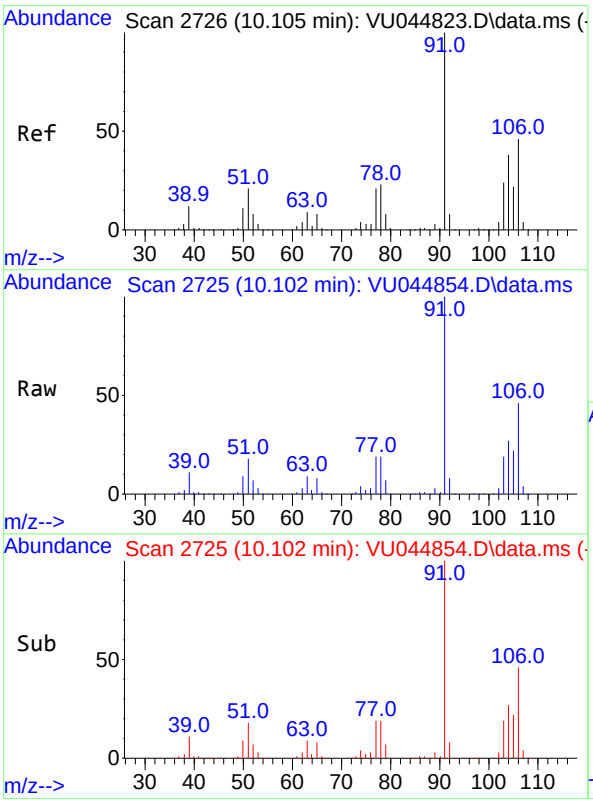


#68
m/p-Xylenes
Concen: 100.132 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:106 Resp: 363285

Ion	Ratio	Lower	Upper
106	100		
91	208.6	164.2	246.2

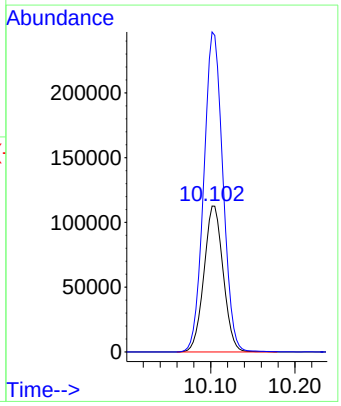




#69
o-Xylene
Concen: 51.025 ug/l
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:106 Resp: 179005

Ion	Ratio	Lower	Upper
106	100		
91	218.2	108.9	326.7



Instrument :
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ClientSampleId :
1028-MW-02MSD

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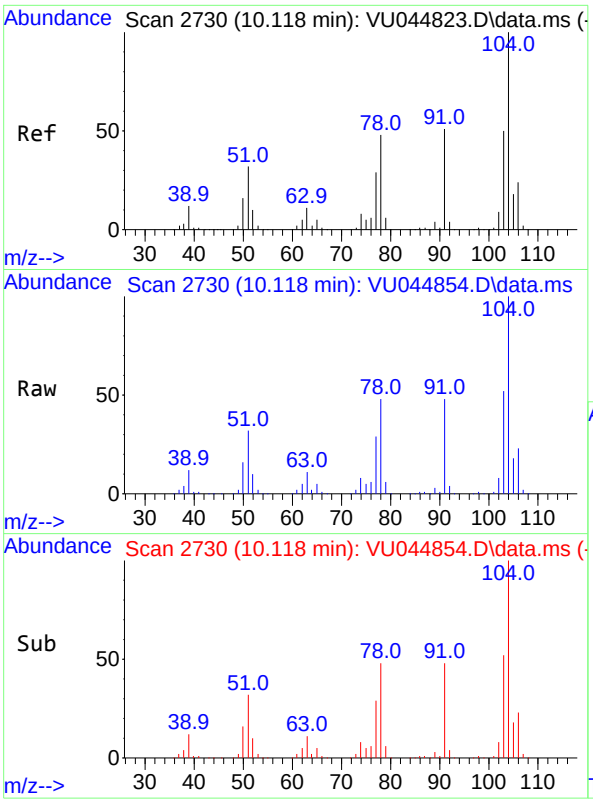
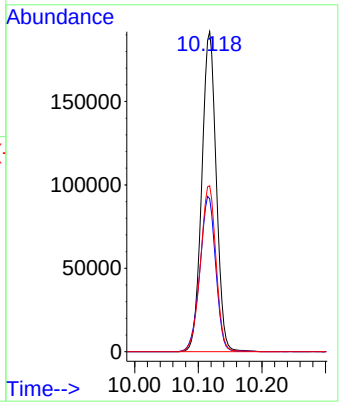
9/27/2021 11:03:08 AM

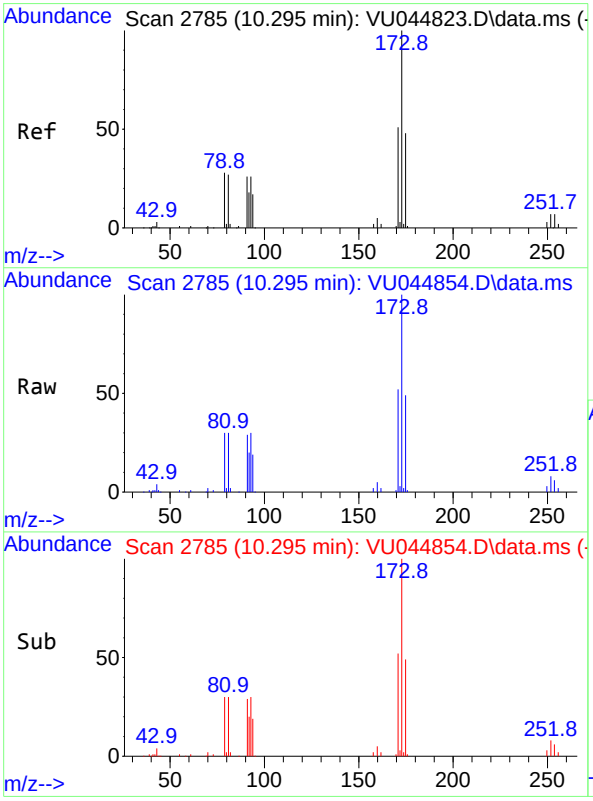


#70
Styrene
Concen: 46.264 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:104 Resp: 302848

Ion	Ratio	Lower	Upper
104	100		
78	53.0	41.4	62.0
103	56.1	43.5	65.3

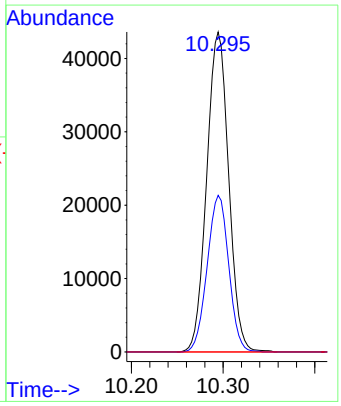




#71
Bromoform
Concen: 46.270 ug/l
RT: 10.295 min Scan# 2785
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:173 Resp: 72573

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

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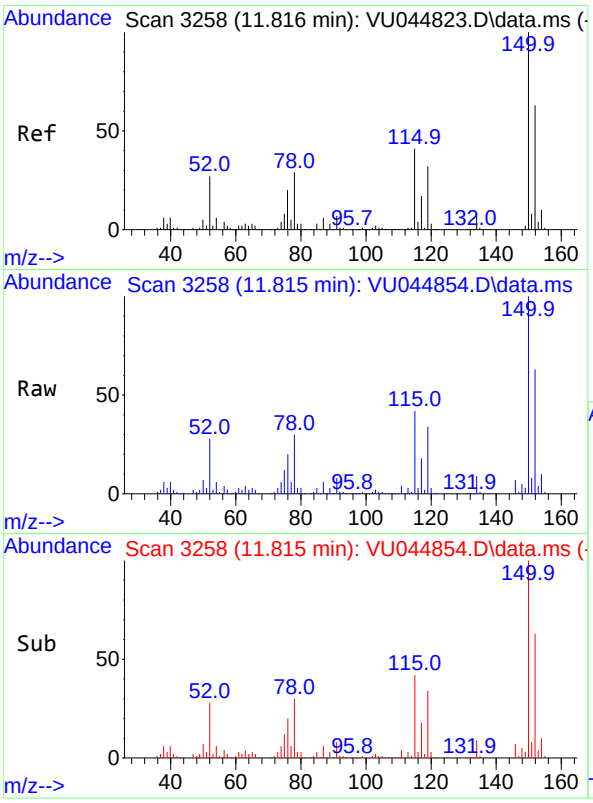
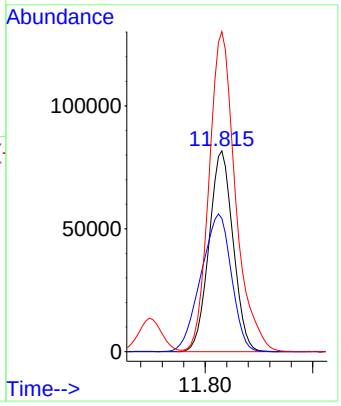
9/27/2021 11:03:08 AM

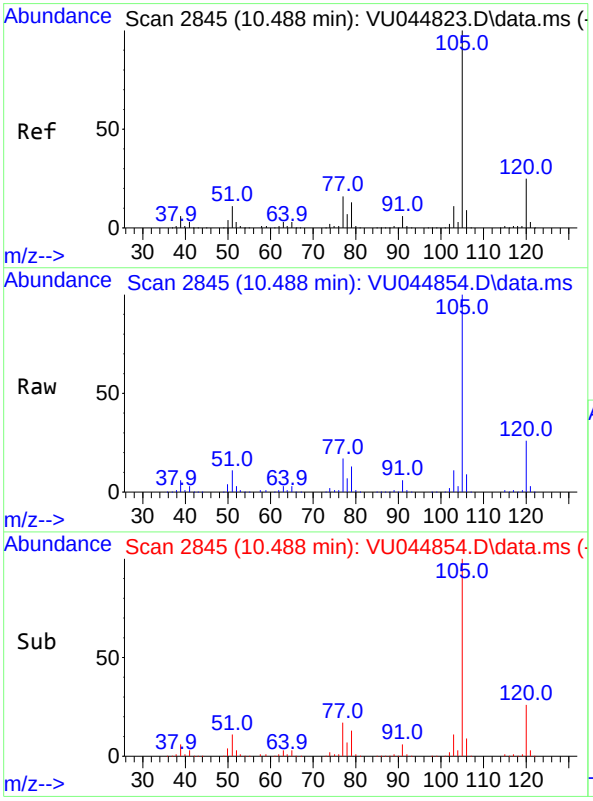


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:152 Resp: 127091

Ion	Ratio	Lower	Upper
152	100		
115	86.5	43.5	130.7
150	174.5	0.0	350.0

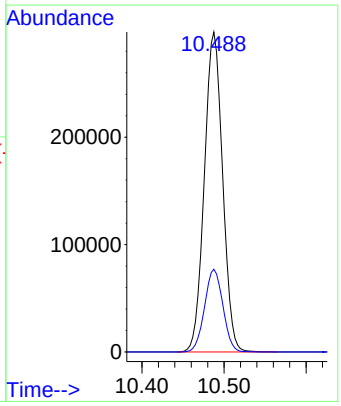




#73
Isopropylbenzene
Concen: 51.062 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:105 Resp: 460599

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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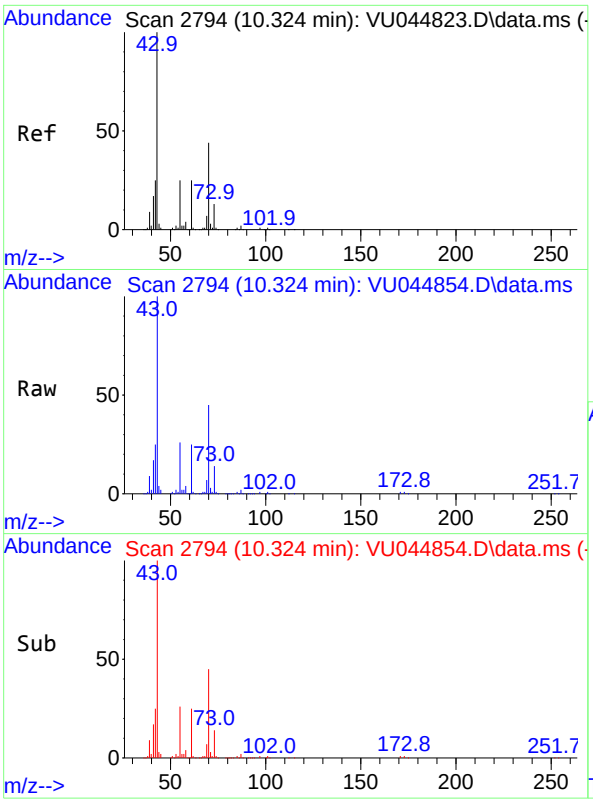
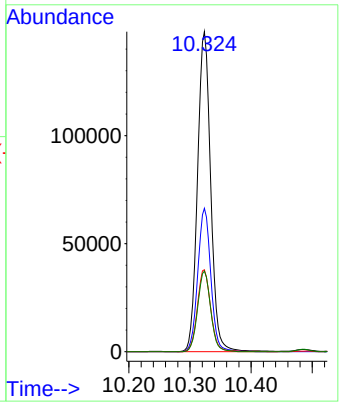
9/27/2021 11:03:08 AM

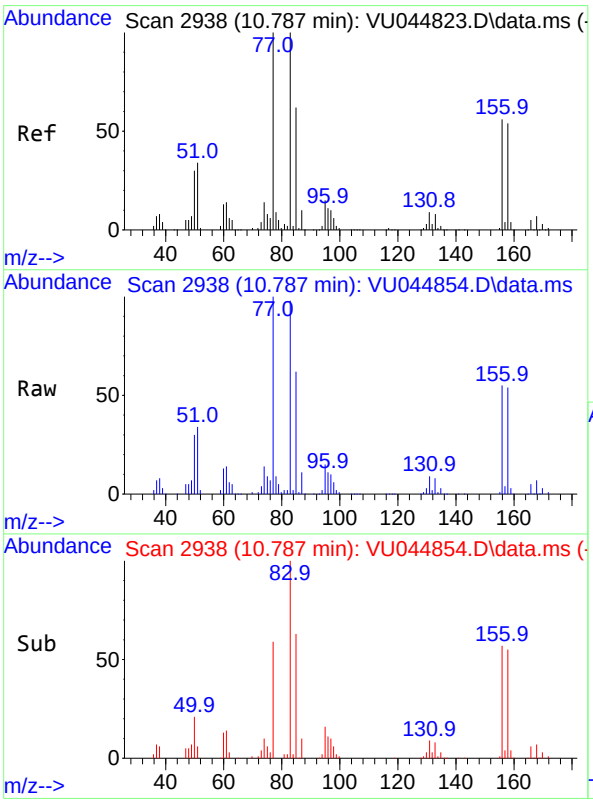


#74
N-amyl acetate
Concen: 48.239 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 43 Resp: 221782

Ion	Ratio	Lower	Upper
43	100		
70	44.3	35.1	52.7
55	25.9	20.5	30.7
61	24.8	19.6	29.4

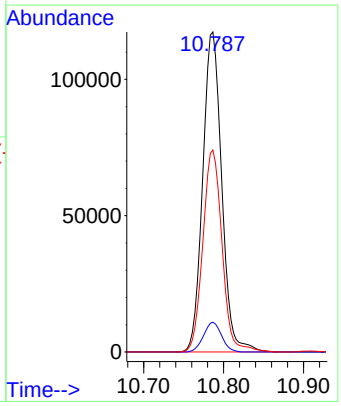




#75
1,1,2,2-Tetrachloroethane
Concen: 47.363 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 83 Resp: 194636

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.3	13.1
85	63.6	31.9	95.5



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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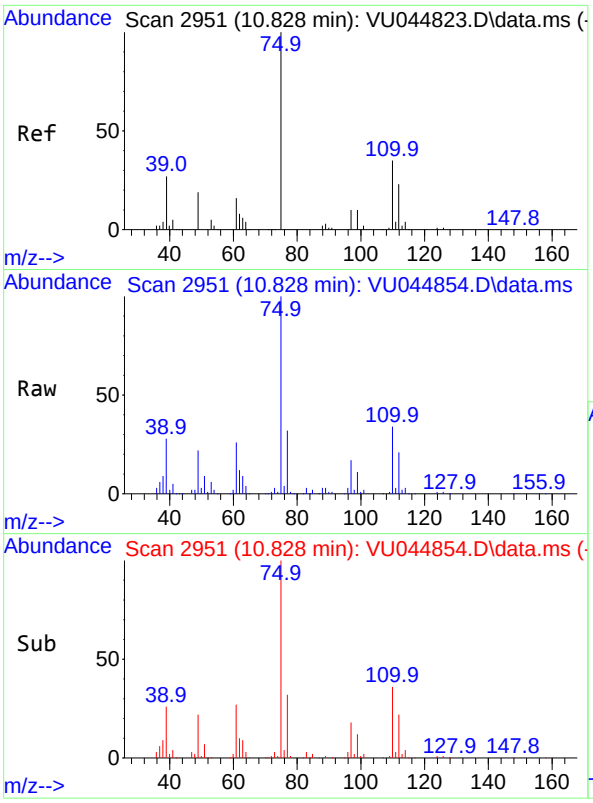
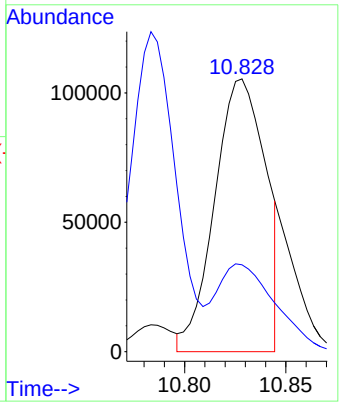
9/27/2021 11:03:08 AM

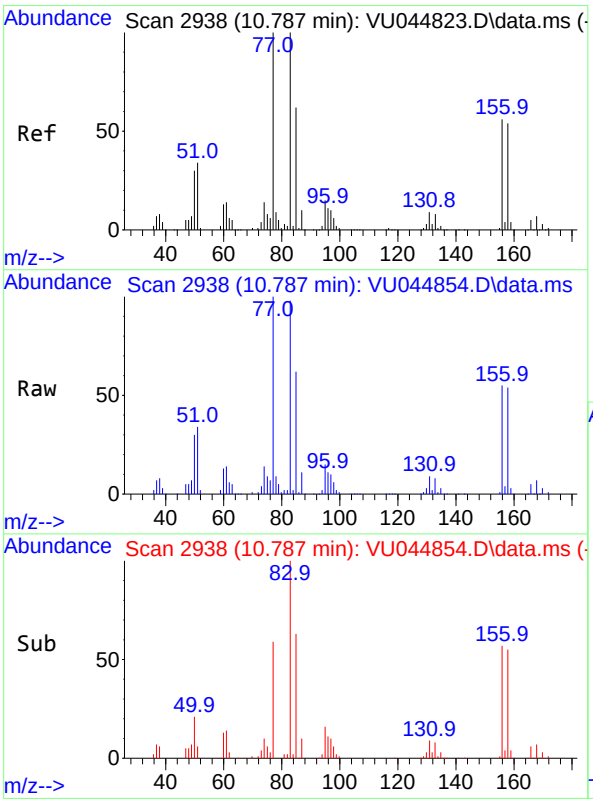


#76
1,2,3-Trichloropropane
Concen: 47.808 ug/l m
RT: 10.828 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 75 Resp: 183990

Ion	Ratio	Lower	Upper
75	100		
77	37.6	17.9	53.7

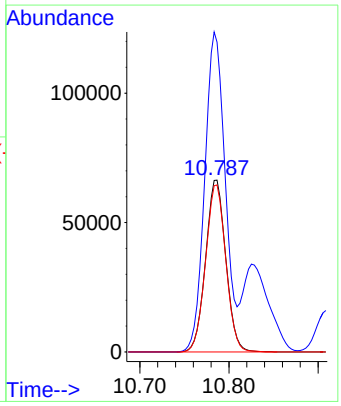




#77
Bromobenzene
Concen: 48.488 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:156 Resp: 104494

Ion	Ratio	Lower	Upper
156	100		
77	187.7	91.1	273.4
158	97.3	48.2	144.6



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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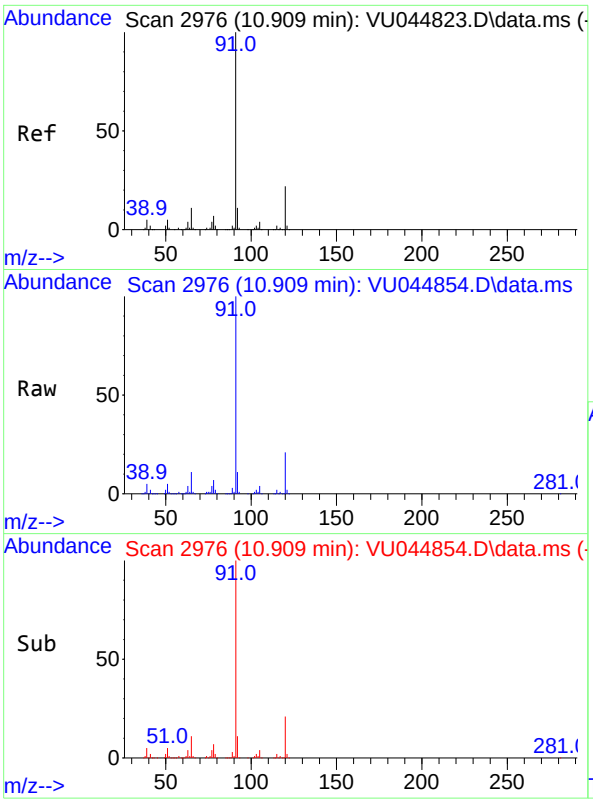
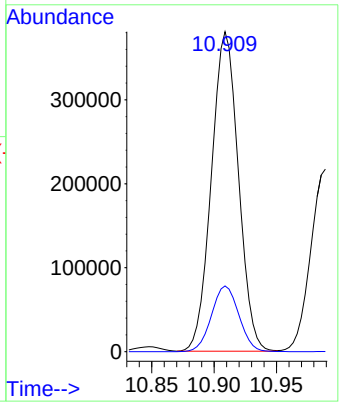
9/27/2021 11:03:08 AM

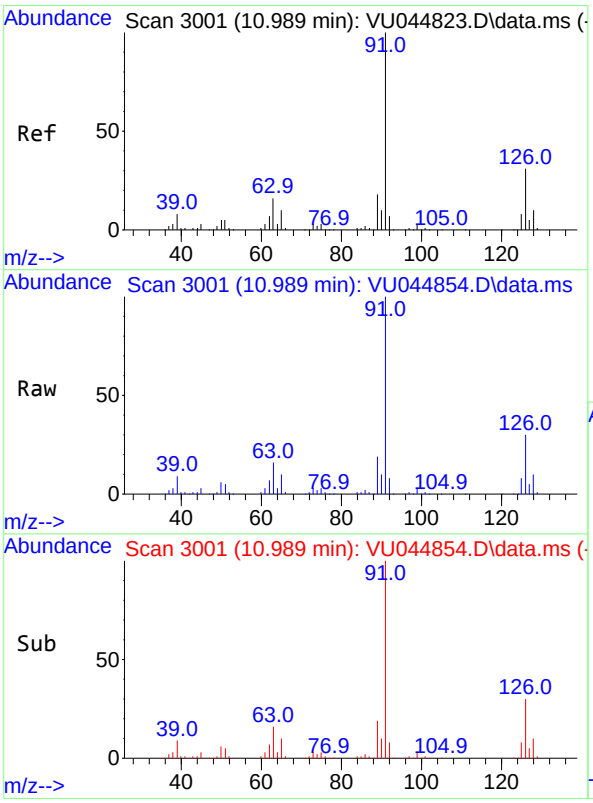


#78
n-propylbenzene
Concen: 52.482 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 91 Resp: 573624

Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.8	32.4

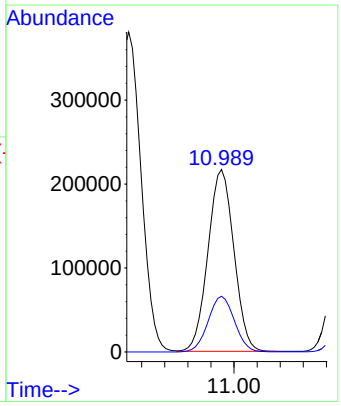




#79
2-Chlorotoluene
Concen: 50.668 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 91 Resp: 337521

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.7	47.0



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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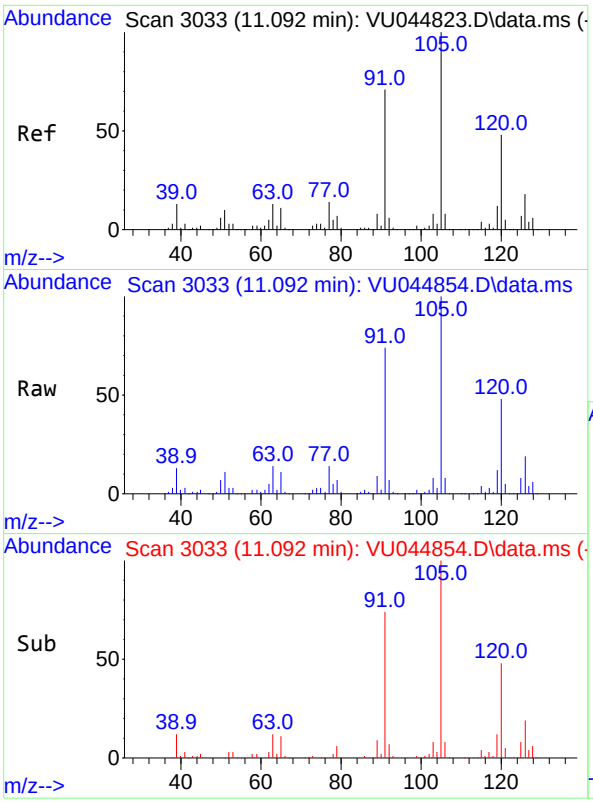
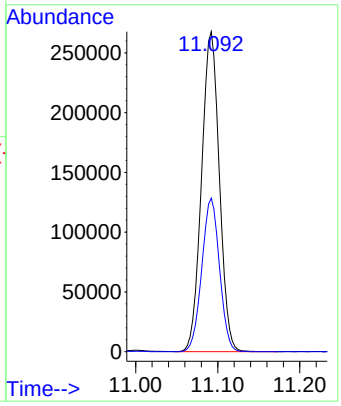
9/27/2021 11:03:08 AM

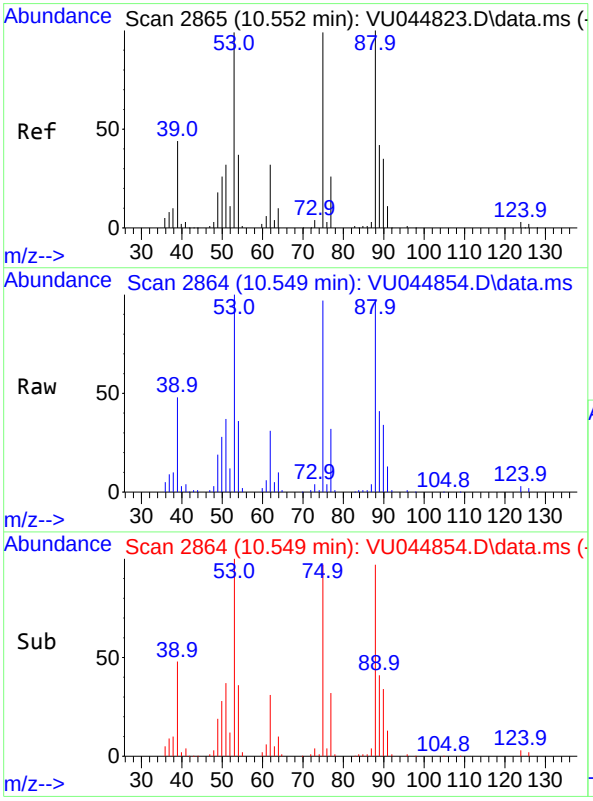


#80
1,3,5-Trimethylbenzene
Concen: 52.789 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:105 Resp: 403344

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.1	72.2

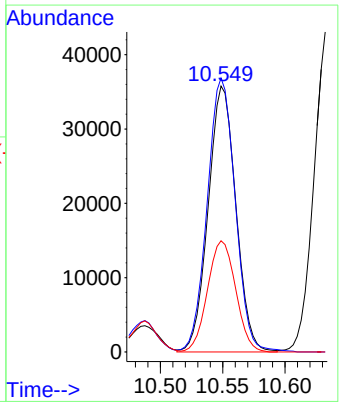




#81
trans-1,4-Dichloro-2-butene
Concen: 46.594 ug/l
RT: 10.549 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 75 Resp: 55354

Ion	Ratio	Lower	Upper
75	100		
53	104.2	82.0	123.0
89	42.5	34.2	51.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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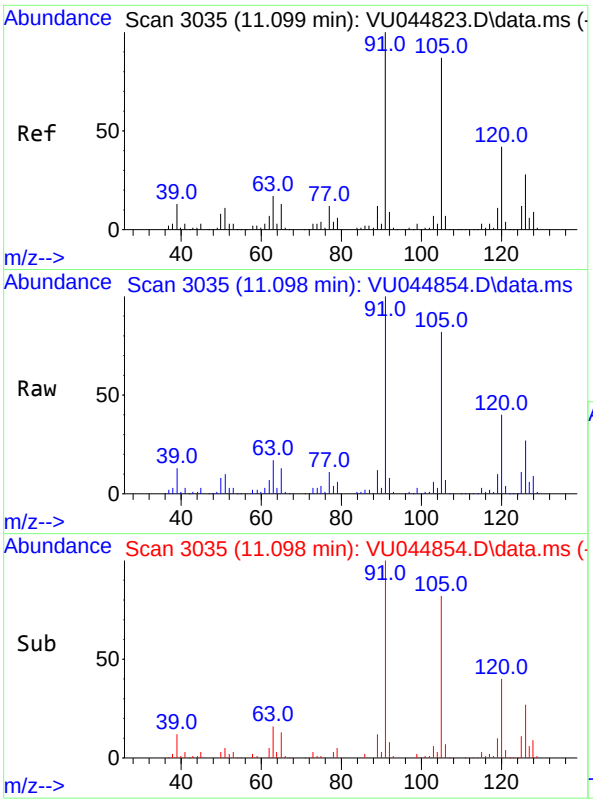
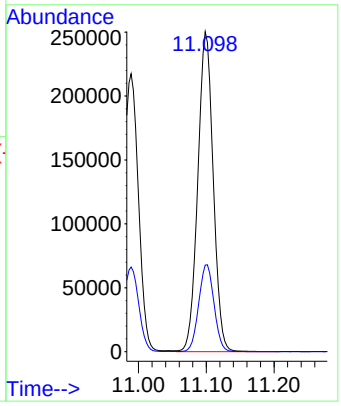
9/27/2021 11:03:08 AM

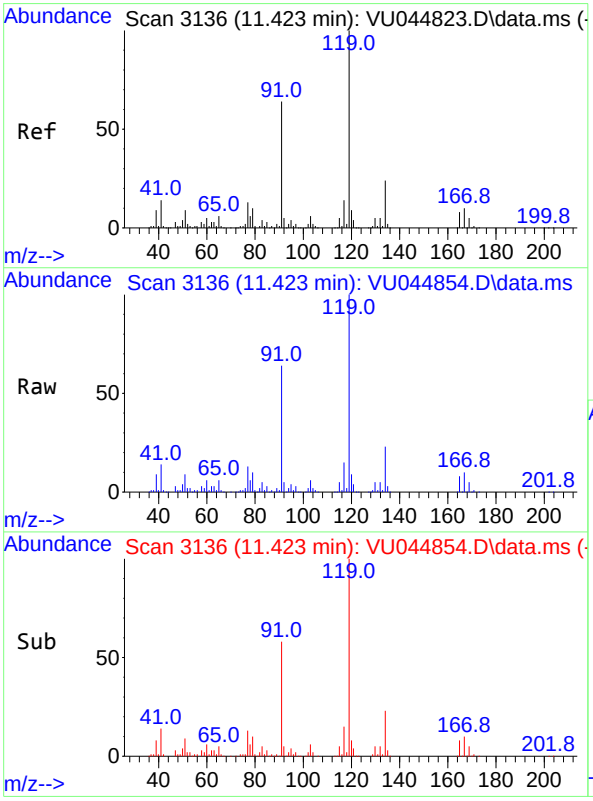


#82
4-Chlorotoluene
Concen: 52.039 ug/l
RT: 11.098 min Scan# 3035
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 91 Resp: 394654

Ion	Ratio	Lower	Upper
91	100		
126	27.0	13.8	41.4

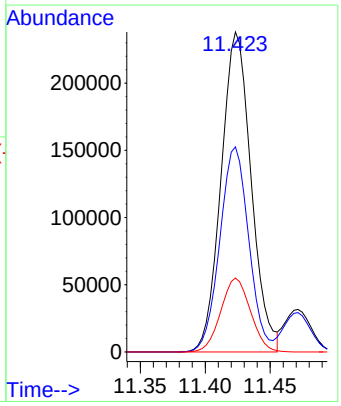




#83
tert-Butylbenzene
Concen: 52.074 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:119 Resp: 383827

Ion	Ratio	Lower	Upper
119	100		
91	61.8	30.4	91.2
134	22.7	11.5	34.5



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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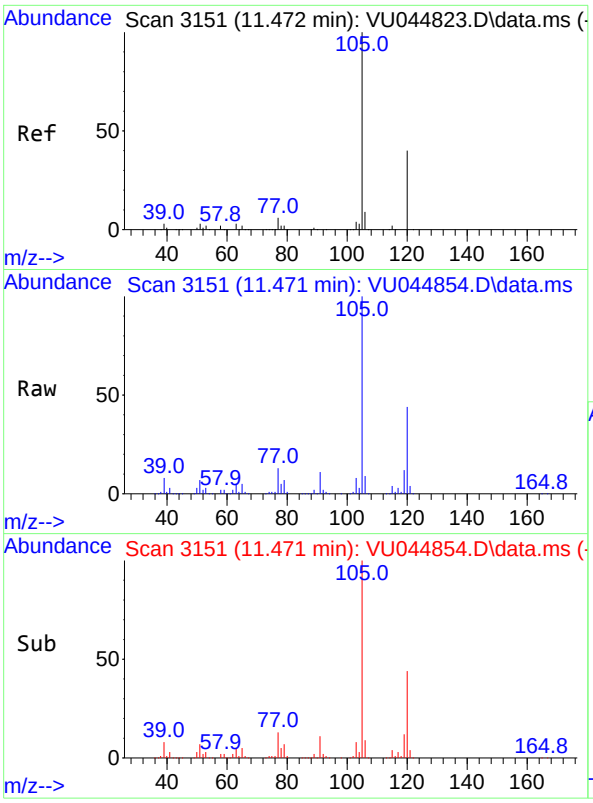
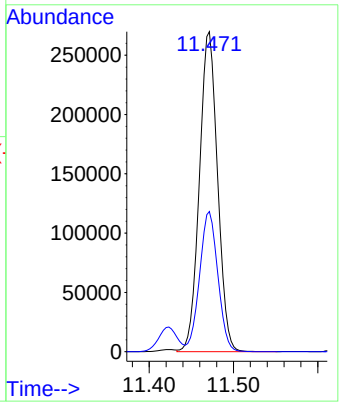
9/27/2021 11:03:08 AM

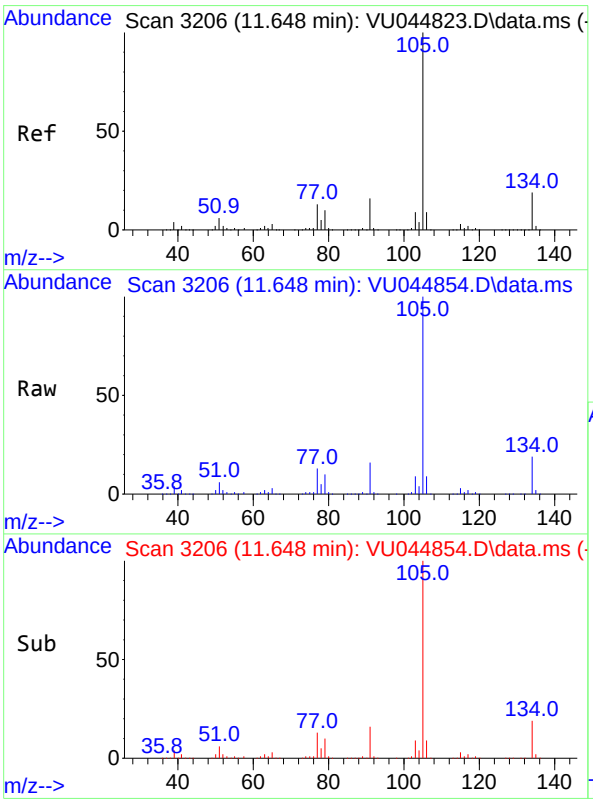


#84
1,2,4-Trimethylbenzene
Concen: 53.769 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:105 Resp: 405024

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.3

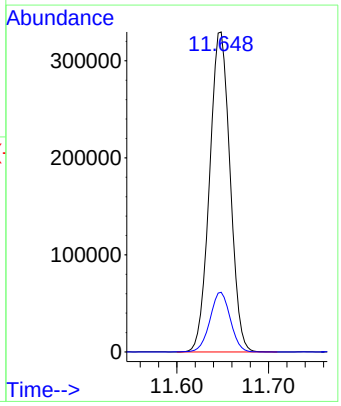




#85
sec-Butylbenzene
Concen: 53.695 ug/l
RT: 11.648 min Scan# 3206
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:105 Resp: 511781

Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.3	28.0



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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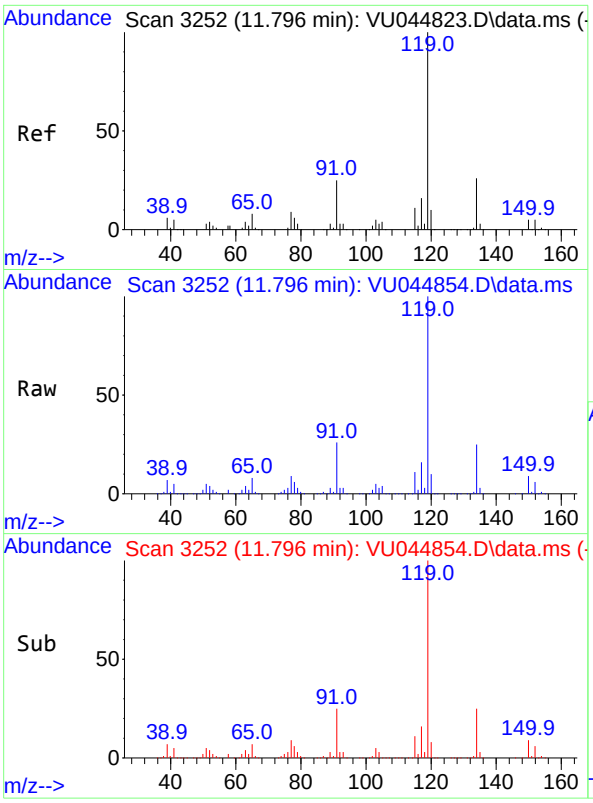
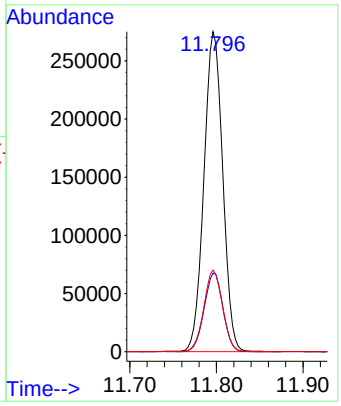
9/27/2021 11:03:08 AM

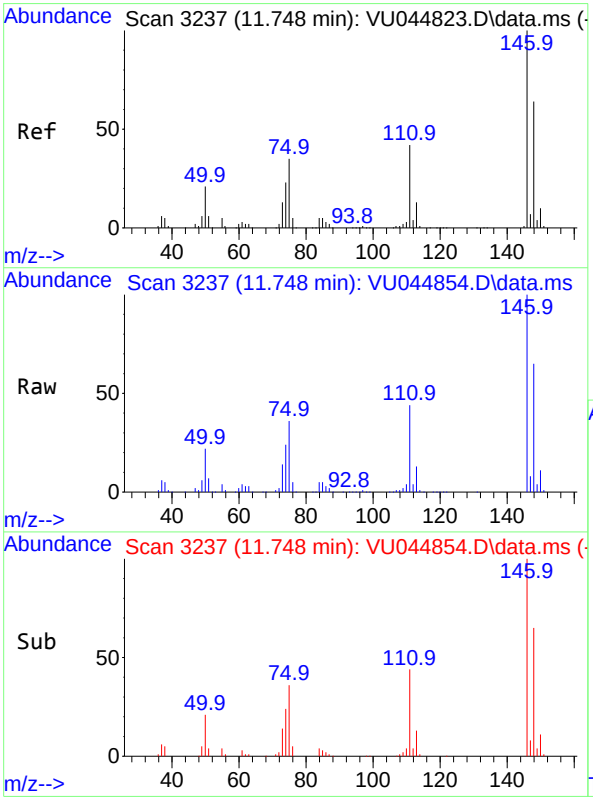


#86
p-Isopropyltoluene
Concen: 53.376 ug/l
RT: 11.796 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:119 Resp: 413871

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.8	38.3
91	25.4	12.2	36.6

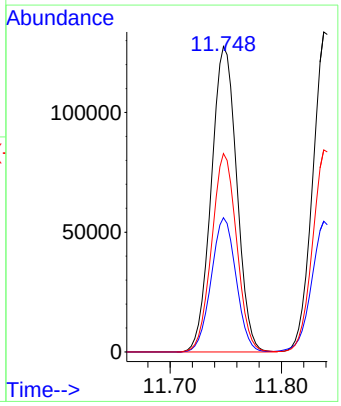




#87
1,3-Dichlorobenzene
Concen: 48.454 ug/l
RT: 11.748 min Scan# 3237
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:146 Resp: 202639

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.2	63.6
148	63.7	32.1	96.3



Instrument :
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ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
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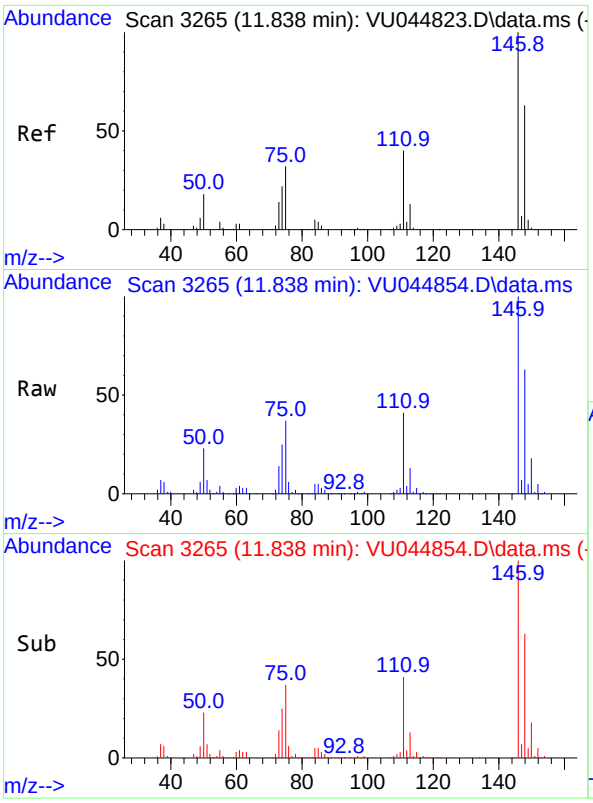
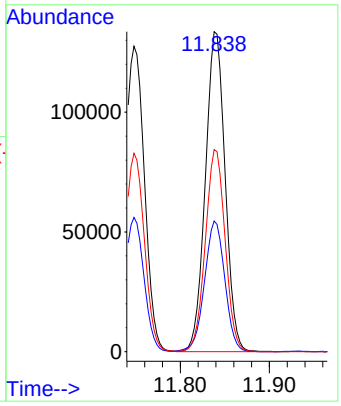
9/27/2021 11:03:08 AM

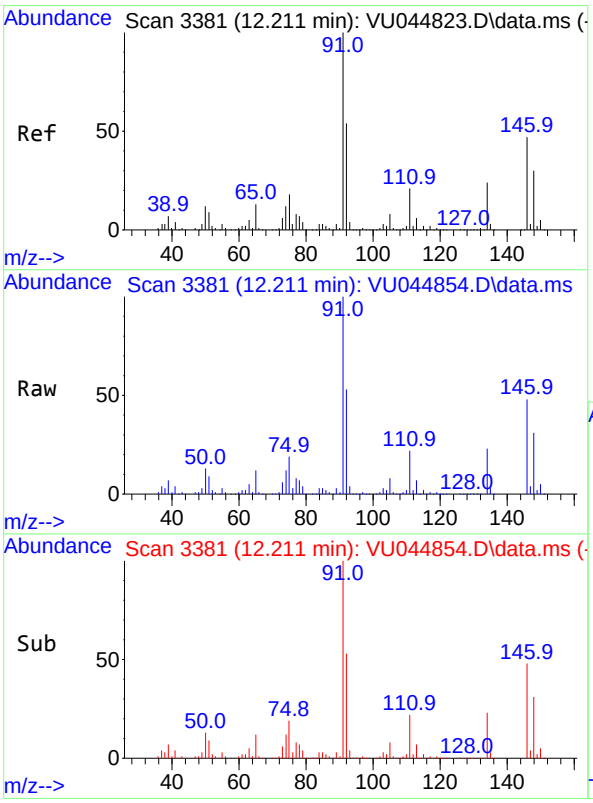


#88
1,4-Dichlorobenzene
Concen: 47.567 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:146 Resp: 205722

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.3	61.0
148	63.4	31.8	95.3

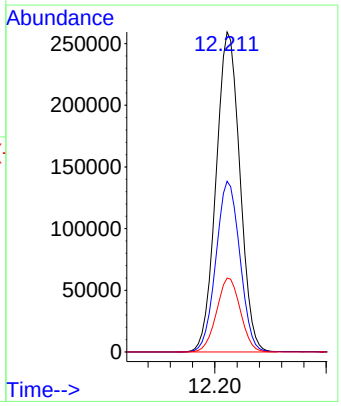




#89
n-Butylbenzene
Concen: 48.351 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

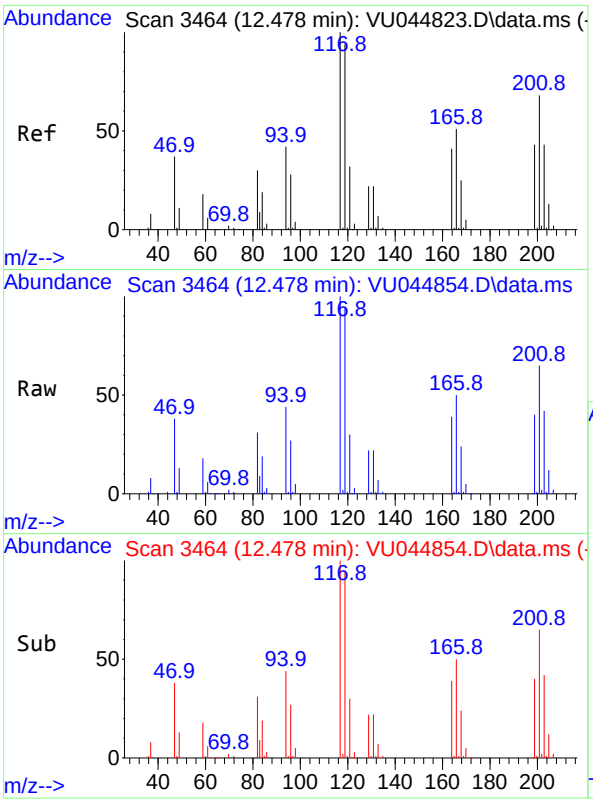
Tgt Ion: 91 Resp: 385832

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.8	80.4
134	23.1	11.8	35.4



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

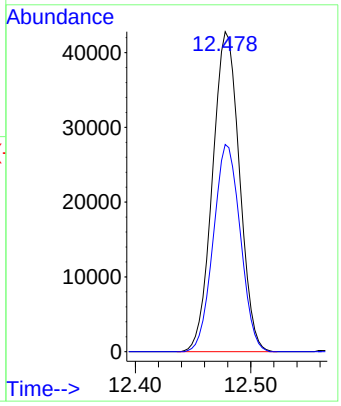
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:08 AM

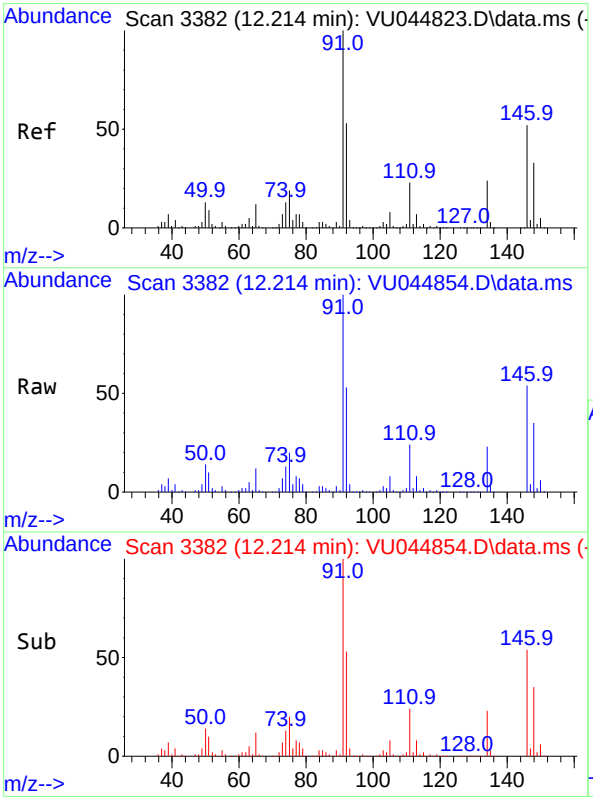


#90
Hexachloroethane
Concen: 49.664 ug/l
RT: 12.478 min Scan# 3464
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:117 Resp: 69391

Ion	Ratio	Lower	Upper
117	100		
201	65.0	34.8	104.3

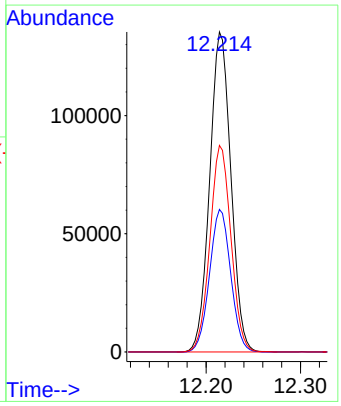




#91
1,2-Dichlorobenzene
Concen: 47.536 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

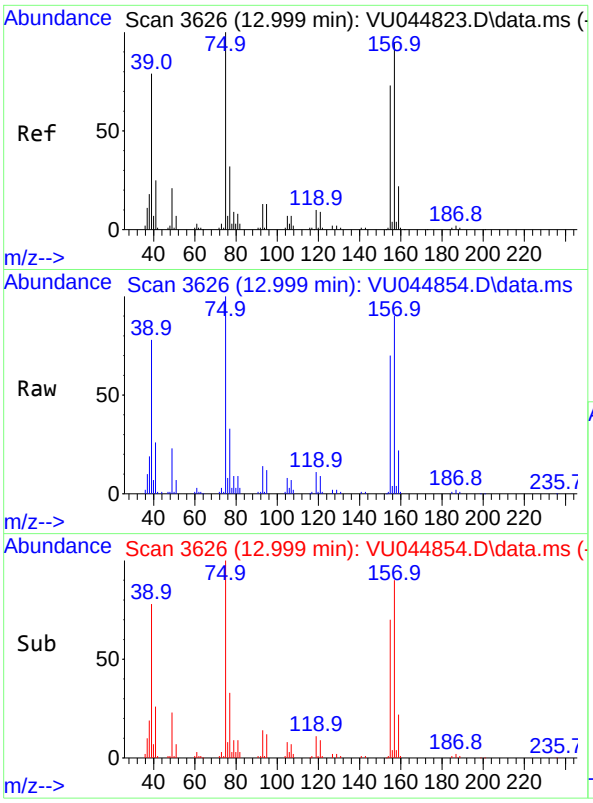
Tgt Ion:146 Resp: 210672

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.3
148	64.2	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

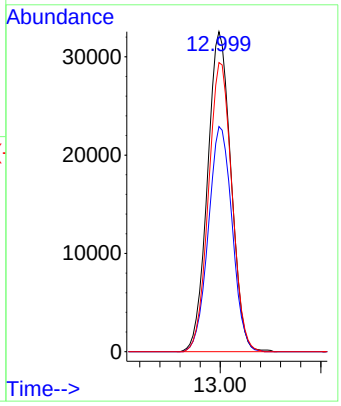
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:08 AM

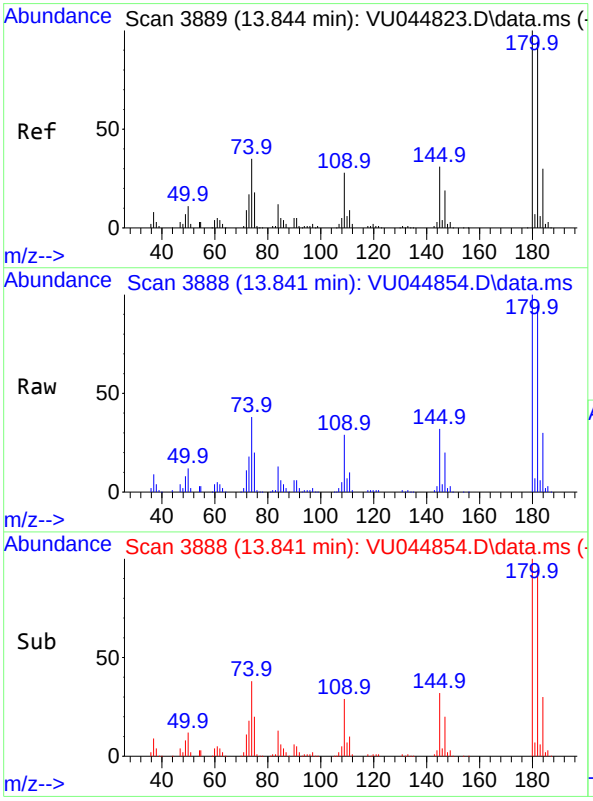


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.044 ug/l
RT: 12.999 min Scan# 3626
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion: 75 Resp: 52857

Ion	Ratio	Lower	Upper
75	100		
155	71.2	36.9	110.6
157	90.0	47.8	143.3

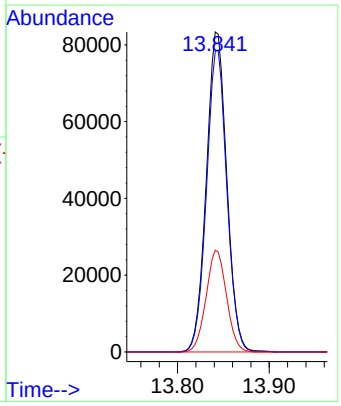




#93
1,2,4-Trichlorobenzene
Concen: 52.785 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. -0.003 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

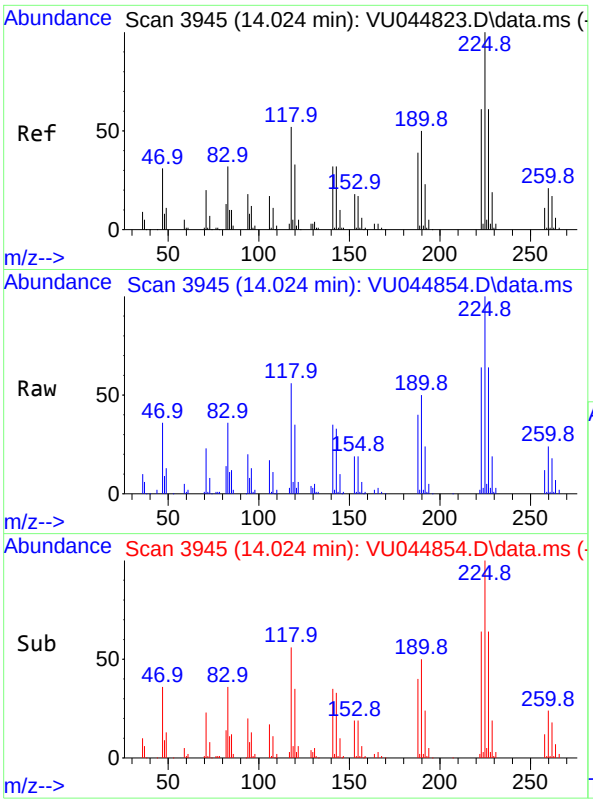
Tgt Ion:180 Resp: 129266

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.4	142.3
145	31.6	15.4	46.2



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

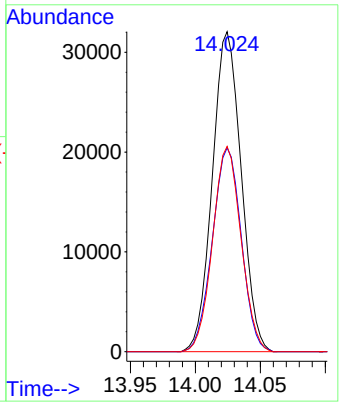
Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:08 AM

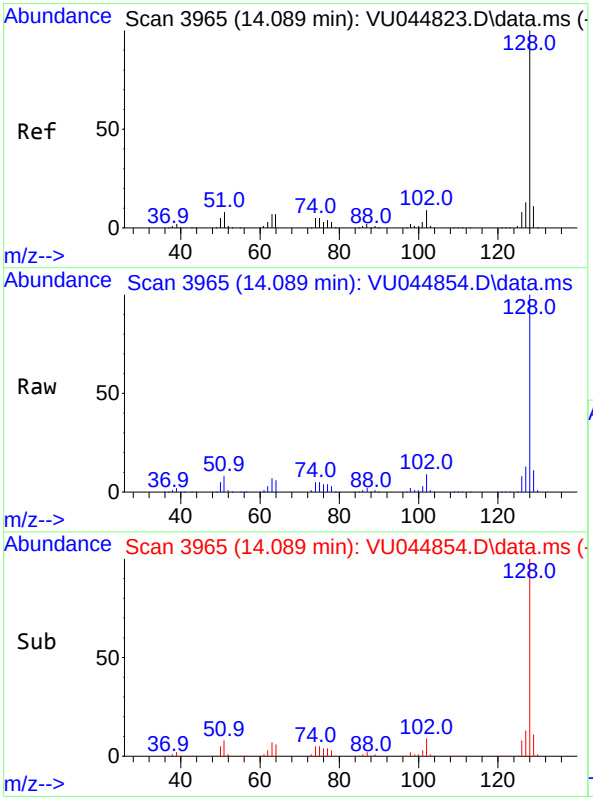


#94
Hexachlorobutadiene
Concen: 45.357 ug/l
RT: 14.024 min Scan# 3945
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:225 Resp: 49414

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.1	93.3
227	63.2	31.4	94.3

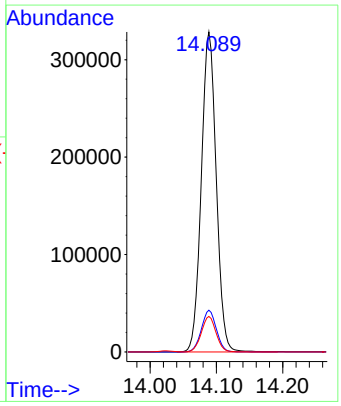


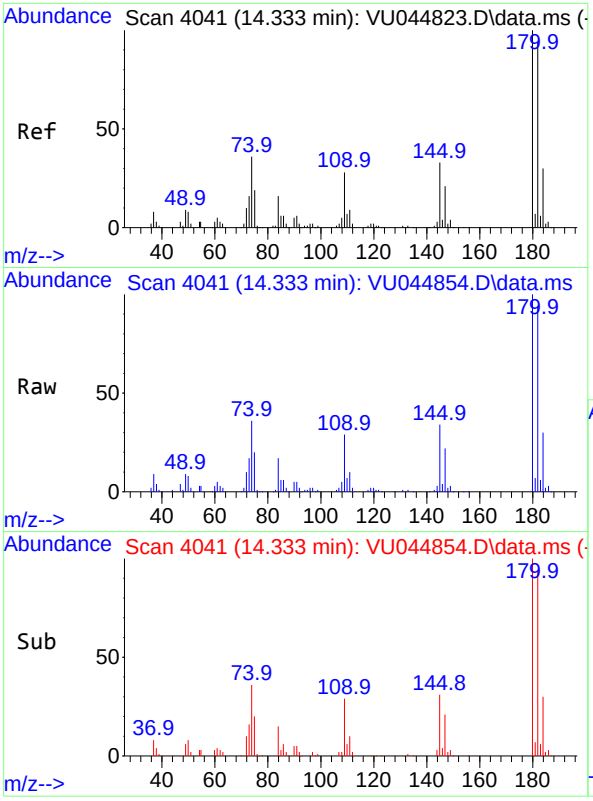


#95
Naphthalene
Concen: 52.556 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:128 Resp: 512798

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.0	8.6	13.0

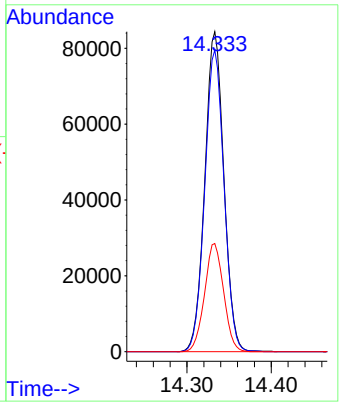




#96
1,2,3-Trichlorobenzene
Concen: 53.370 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. -0.000 min
Lab File: VU044854.D
Acq: 25 Sep 2021 22:02

Tgt Ion:180 Resp: 132904

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.1	141.4
145	33.8	16.4	49.2



Instrument :
MSVOA_U
ClientSampleId :
1028-MW-02MSD

Manual Integrations APPROVED
MMDadoda
9/27/2021 11:03:08 AM

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Manual Integration Report

Sequence:	VU092521	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VU044820.D	1,2,3-Trichloropropane	john	9/25/2021 9:46:12 AM	MMDadoda	9/27/2021 11:02:30 AM	Peak Integrated by Software incorrectly
VSTDICC001	VU044820.D	1,4-Dichlorobenzene	john	9/25/2021 9:46:12 AM	MMDadoda	9/27/2021 11:02:30 AM	Peak Integrated by Software incorrectly
VSTDICC005	VU044821.D	1,2,3-Trichloropropane	john	9/25/2021 9:46:16 AM	MMDadoda	9/27/2021 11:02:35 AM	Peak Integrated by Software incorrectly
VSTDICC020	VU044822.D	1,2,3-Trichloropropane	john	9/25/2021 9:46:20 AM	MMDadoda	9/27/2021 11:02:37 AM	Peak Integrated by Software incorrectly
VSTDICCC050	VU044823.D	1,2,3-Trichloropropane	john	9/25/2021 9:46:24 AM	MMDadoda	9/27/2021 11:02:41 AM	Peak Integrated by Software incorrectly
VSTDICC100	VU044824.D	1,2,3-Trichloropropane	john	9/25/2021 9:46:27 AM	MMDadoda	9/27/2021 11:02:46 AM	Peak Integrated by Software incorrectly
VSTDICC100	VU044824.D	Tert butyl alcohol	john	9/25/2021 9:46:27 AM	MMDadoda	9/27/2021 11:02:46 AM	Peak Integrated by Software incorrectly
VSTDICC150	VU044825.D	1,2,3-Trichloropropane	john	9/25/2021 9:46:32 AM	MMDadoda	9/27/2021 11:02:48 AM	Peak Integrated by Software incorrectly
VSTDICC150	VU044825.D	Tert butyl alcohol	john	9/25/2021 9:46:32 AM	MMDadoda	9/27/2021 11:02:48 AM	Peak Integrated by Software incorrectly
VSTDICV050	VU044827.D	1,2,3-Trichloropropane	john	9/27/2021 8:57:17 AM	MMDadoda	9/27/2021 11:02:52 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044829.D	1,2,3-Trichloropropane	john	9/27/2021 8:57:21 AM	MMDadoda	9/27/2021 11:02:55 AM	Peak Integrated by Software incorrectly
VU0925WBS01	VU044833.D	1,2,3-Trichloropropane	john	9/27/2021 8:57:29 AM	MMDadoda	9/27/2021 11:03:02 AM	Peak Integrated by Software incorrectly
M3859-08MS	VU044853.D	1,2,3-Trichloropropane	john	9/27/2021 8:57:49 AM	MMDadoda	9/27/2021 11:03:05 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence:	VU092521	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
M3859-09MSD	VU044854.D	1,2,3-Trichloropropane	john	9/27/2021 8:57:54 AM	MMDadoda	9/27/2021 11:03:08 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044855.D	1,2,3-Trichloropropane	john	9/27/2021 8:57:58 AM	MMDadoda	9/27/2021 11:03:12 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044857.D	1,2,3-Trichloropropane	john	9/27/2021 8:58:04 AM	MMDadoda	9/27/2021 11:03:13 AM	Peak Integrated by Software incorrectly
VU0925WBS02	VU044859.D	1,2,3-Trichloropropane	john	9/27/2021 8:58:07 AM	MMDadoda	9/27/2021 11:03:15 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044883.D	1,2,3-Trichloropropane	john	9/27/2021 8:58:20 AM	MMDadoda	9/27/2021 11:03:20 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence:	VU092721	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VU044885.D	1,2,3-Trichloropropane	john	9/28/2021 9:35:41 AM	MMDadoda	9/28/2021 7:04:46 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044885.D	Tert butyl alcohol	john	9/28/2021 9:35:41 AM	MMDadoda	9/28/2021 7:04:46 PM	Peak Integrated by Software incorrectly
VU0927WBS01	VU044889.D	1,2,3-Trichloropropane	john	9/28/2021 9:35:50 AM	MMDadoda	9/28/2021 7:04:49 PM	Peak Integrated by Software incorrectly
VU0927WBS01	VU044889.D	Tert butyl alcohol	john	9/28/2021 9:35:50 AM	MMDadoda	9/28/2021 7:04:49 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044903.D	1,2,3-Trichloropropane	john	9/28/2021 9:36:19 AM	MMDadoda	9/28/2021 7:04:54 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044905.D	1,2,3-Trichloropropane	john	9/28/2021 9:36:23 AM	MMDadoda	9/28/2021 1:33:39 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044905.D	Tert butyl alcohol	john	9/28/2021 9:36:23 AM	MMDadoda	9/28/2021 1:33:39 PM	Peak Integrated by Software incorrectly
VU0927WBS02	VU044907.D	1,2,3-Trichloropropane	john	9/28/2021 9:36:28 AM	MMDadoda	9/28/2021 1:33:42 PM	Peak Integrated by Software incorrectly
VU0927WBS02	VU044907.D	Tert butyl alcohol	john	9/28/2021 9:36:28 AM	MMDadoda	9/28/2021 1:33:42 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VU044927.D	1,2,3-Trichloropropane	john	9/28/2021 10:31:31 AM	MMDadoda	9/28/2021 1:35:30 PM	Peak Integrated by Software incorrectly

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092521

Review By	john	Review On	9/25/2021 9:46:45 AM		
Supervise By	MMDadoda	Supervise On	9/25/2021 2:30:52 PM		
SubDirectory	VU092521	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106379VP106395,VP106391
Initial Calibration Stds	VP106380,VP106381,VP106382,VP106383,VP106384,VP106385
CCC	VP106396,VP106397,VP106389,VP106390
Internal Standard/PEM	VP103756
ICV/I.BLK	VP106386
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VU044819.D	24 Sep 2021 18:32	SY/MD	Ok
2	VSTDICC001	VU044820.D	24 Sep 2021 19:19	SY/MD	Ok,M
3	VSTDICC005	VU044821.D	24 Sep 2021 20:06	SY/MD	Ok,M
4	VSTDICC020	VU044822.D	24 Sep 2021 20:29	SY/MD	Ok,M
5	VSTDICCC050	VU044823.D	24 Sep 2021 20:53	SY/MD	Ok,M
6	VSTDICC100	VU044824.D	24 Sep 2021 21:16	SY/MD	Ok,M
7	VSTDICC150	VU044825.D	24 Sep 2021 21:39	SY/MD	Ok,M
8	IBLK	VU044826.D	24 Sep 2021 22:03	SY/MD	Ok
9	VSTDICV050	VU044827.D	24 Sep 2021 22:26	SY/MD	Ok,M
10	BFB	VU044828.D	25 Sep 2021 11:46	SY/MD	Ok
11	VSTDCCC050	VU044829.D	25 Sep 2021 12:12	SY/MD	Ok,M
12	VU0925MBL01	VU044830.D	25 Sep 2021 12:42	SY/MD	Ok
13	VU0925WBL01	VU044831.D	25 Sep 2021 13:05	SY/MD	Ok
14	VU0925MBS01	VU044832.D	25 Sep 2021 13:28	SY/MD	Ok,M
15	VU0925WBS01	VU044833.D	25 Sep 2021 13:50	SY/MD	Ok,M
16	M3829-10DL	VU044834.D	25 Sep 2021 14:13	SY/MD	Ok
17	M3784-01	VU044835.D	25 Sep 2021 14:36	SY/MD	Ok
18	M3784-02	VU044836.D	25 Sep 2021 15:00	SY/MD	Ok
19	M3784-03	VU044837.D	25 Sep 2021 15:23	SY/MD	Ok
20	M3784-04	VU044838.D	25 Sep 2021 15:47	SY/MD	Ok
21	M3833-11DL	VU044839.D	25 Sep 2021 16:10	SY/MD	Ok
22	M3833-16	VU044840.D	25 Sep 2021 16:34	SY/MD	Ok
23	M3833-18	VU044841.D	25 Sep 2021 16:57	SY/MD	Ok

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092521

Review By	john	Review On	9/25/2021 9:46:45 AM		
Supervise By	MMDadoda	Supervise On	9/25/2021 2:30:52 PM		
SubDirectory	VU092521	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106379VP106395,VP106391
Initial Calibration Stds	VP106380,VP106381,VP106382,VP106383,VP106384,VP106385
CCC	VP106396,VP106397,VP106389,VP106390
Internal Standard/PEM	VP103756
ICV/I.BLK	VP106386
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	M3797-05	VU044842.D	25 Sep 2021 17:20	SY/MD	Ok
25	M3829-16	VU044843.D	25 Sep 2021 17:44	SY/MD	Ok
26	M3829-24	VU044844.D	25 Sep 2021 18:07	SY/MD	Ok
27	M3829-08	VU044845.D	25 Sep 2021 18:31	SY/MD	Dilution
28	M3829-13	VU044846.D	25 Sep 2021 18:54	SY/MD	Dilution
29	M3859-01	VU044847.D	25 Sep 2021 19:18	SY/MD	Dilution
30	M3859-02	VU044848.D	25 Sep 2021 19:41	SY/MD	ReRun
31	M3859-03	VU044849.D	25 Sep 2021 20:05	SY/MD	Dilution
32	M3875-15	VU044850.D	25 Sep 2021 20:28	SY/MD	Dilution
33	M3895-02	VU044851.D	25 Sep 2021 20:52	SY/MD	Ok
34	M3895-01	VU044852.D	25 Sep 2021 21:15	SY/MD	Ok
35	M3859-08MS	VU044853.D	25 Sep 2021 21:38	SY/MD	Ok,M
36	M3859-09MSD	VU044854.D	25 Sep 2021 22:02	SY/MD	Ok,M
37	VSTDCCC050	VU044855.D	25 Sep 2021 22:25	SY/MD	Ok,M
38	BFB	VU044856.D	25 Sep 2021 23:12	SY/MD	Ok
39	VSTDCCC050	VU044857.D	25 Sep 2021 23:35	SY/MD	Ok,M
40	VU0925WBL02	VU044858.D	26 Sep 2021 00:22	SY/MD	Ok
41	VU0925WBS02	VU044859.D	26 Sep 2021 00:46	SY/MD	Ok,M
42	VU0925WBSD02	VU044860.D	26 Sep 2021 01:09	SY/MD	Ok,M
43	M3829-07	VU044861.D	26 Sep 2021 01:33	SY/MD	Dilution
44	M3829-15DL	VU044862.D	26 Sep 2021 01:56	SY/MD	Ok
45	M3859-06	VU044863.D	26 Sep 2021 02:20	SY/MD	ReRun
46	M3859-07	VU044864.D	26 Sep 2021 02:43	SY/MD	Ok
47	M3859-05	VU044865.D	26 Sep 2021 03:07	SY/MD	Ok
48	M3859-04	VU044866.D	26 Sep 2021 03:30	SY/MD	Dilution

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092521

Review By	john	Review On	9/25/2021 9:46:45 AM		
Supervise By	MMDadoda	Supervise On	9/25/2021 2:30:52 PM		
SubDirectory	VU092521	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106379VP106395,VP106391
Initial Calibration Stds	VP106380,VP106381,VP106382,VP106383,VP106384,VP106385
CCC	VP106396,VP106397,VP106389,VP106390
Internal Standard/PEM	VP103756
ICV/I.BLK	VP106386
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

49	M3888-03	VU044867.D	26 Sep 2021 03:54	SY/MD	Dilution
50	M3888-04	VU044868.D	26 Sep 2021 04:17	SY/MD	Dilution
51	M3888-05	VU044869.D	26 Sep 2021 04:41	SY/MD	Ok
52	M3888-06	VU044870.D	26 Sep 2021 05:04	SY/MD	Dilution
53	M3888-07	VU044871.D	26 Sep 2021 05:28	SY/MD	Ok
54	M3888-08	VU044872.D	26 Sep 2021 05:51	SY/MD	Ok
55	M3888-09	VU044873.D	26 Sep 2021 06:15	SY/MD	Ok
56	M3888-10	VU044874.D	26 Sep 2021 06:38	SY/MD	Ok
57	M3888-11	VU044875.D	26 Sep 2021 07:02	SY/MD	Dilution
58	M3888-12	VU044876.D	26 Sep 2021 07:25	SY/MD	ReRun
59	M3888-13	VU044877.D	26 Sep 2021 07:48	SY/MD	Not Ok
60	M3893-01	VU044878.D	26 Sep 2021 08:12	SY/MD	Ok
61	M3893-02	VU044879.D	26 Sep 2021 08:35	SY/MD	Ok
62	M3893-03	VU044880.D	26 Sep 2021 08:59	SY/MD	Ok
63	M3893-04	VU044881.D	26 Sep 2021 09:22	SY/MD	Ok
64	M3893-05	VU044882.D	26 Sep 2021 09:46	SY/MD	Ok
65	VSTDCCC050	VU044883.D	26 Sep 2021 10:09	SY/MD	Ok,M

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092721

Review By	MMDadoda	Review On	9/28/2021 7:05:26 PM		
Supervise By	SAM	Supervise On	9/28/2021 7:46:06 PM		
SubDirectory	VU092721	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106425,VP106446
Initial Calibration Stds	
CCC	VP106426,VP106427,VP106447,VP106448
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VU044884.D	27 Sep 2021 09:13	SY/MD	Ok
2	VSTDCCC050	VU044885.D	27 Sep 2021 12:20	SY/MD	Ok,M
3	VU0927MBL01	VU044886.D	27 Sep 2021 12:49	SY/MD	Ok
4	VU0927WBL01	VU044887.D	27 Sep 2021 13:48	SY/MD	Ok
5	VU0927MBS01	VU044888.D	27 Sep 2021 14:10	SY/MD	Ok,M
6	VU0927WBS01	VU044889.D	27 Sep 2021 15:21	SY/MD	Ok,M
7	M3888-03DL	VU044890.D	27 Sep 2021 15:45	SY/MD	Ok
8	M3875-13	VU044891.D	27 Sep 2021 16:08	SY/MD	Ok,M
9	M3875-15DL	VU044892.D	27 Sep 2021 16:32	SY/MD	Ok,M
10	M3888-04DL	VU044893.D	27 Sep 2021 16:55	SY/MD	Ok
11	M3888-06DL	VU044894.D	27 Sep 2021 17:19	SY/MD	Ok
12	M3875-11ME	VU044895.D	27 Sep 2021 17:42	SY/MD	Ok
13	M3888-12	VU044896.D	27 Sep 2021 18:06	SY/MD	Ok
14	M3888-13	VU044897.D	27 Sep 2021 18:29	SY/MD	Ok
15	M3888-11DL	VU044898.D	27 Sep 2021 18:52	SY/MD	Dilution
16	M3888-11DL2	VU044899.D	27 Sep 2021 19:16	SY/MD	Ok
17	M3792-01ME	VU044900.D	27 Sep 2021 19:39	SY/MD	Ok
18	M3838-01	VU044901.D	27 Sep 2021 20:03	SY/MD	Ok
19	M3859-04DL	VU044902.D	27 Sep 2021 20:26	SY/MD	Ok
20	VSTDCCC050	VU044903.D	27 Sep 2021 20:50	SY/MD	Ok,M
21	BFB	VU044904.D	27 Sep 2021 21:37	SY/MD	Ok
22	VSTDCCC050	VU044905.D	27 Sep 2021 22:00	SY/MD	Ok,M
23	VU0927WBL02	VU044906.D	27 Sep 2021 23:10	SY/MD	Ok

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092721

Review By	MMDadoda	Review On	9/28/2021 7:05:26 PM		
Supervise By	SAM	Supervise On	9/28/2021 7:46:06 PM		
SubDirectory	VU092721	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106425,VP106446
Initial Calibration Stds	
CCC	VP106426,VP106427,VP106447,VP106448
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	VU0927WBS02	VU044907.D	27 Sep 2021 23:33	SY/MD	Ok,M
25	VU0927WBSD02	VU044908.D	27 Sep 2021 23:57	SY/MD	Not Ok
26	M3859-01DL	VU044909.D	28 Sep 2021 00:20	SY/MD	Ok
27	M3859-02	VU044910.D	28 Sep 2021 00:44	SY/MD	Ok
28	M3859-06	VU044911.D	28 Sep 2021 01:07	SY/MD	Ok
29	M3859-03DL	VU044912.D	28 Sep 2021 01:31	SY/MD	Ok
30	M3829-02DL	VU044913.D	28 Sep 2021 01:54	SY/MD	Ok
31	M3829-04DL	VU044914.D	28 Sep 2021 02:17	SY/MD	Ok
32	M3829-06DL	VU044915.D	28 Sep 2021 02:41	SY/MD	Ok
33	M3829-07DL	VU044916.D	28 Sep 2021 03:04	SY/MD	Ok
34	M3829-08DL	VU044917.D	28 Sep 2021 03:28	SY/MD	Ok
35	M3829-13DL	VU044918.D	28 Sep 2021 03:51	SY/MD	Ok
36	M3915-15	VU044919.D	28 Sep 2021 04:14	SY/MD	Not Ok
37	M3915-17	VU044920.D	28 Sep 2021 04:38	SY/MD	Not Ok
38	M3915-18	VU044921.D	28 Sep 2021 05:01	SY/MD	Not Ok
39	M3915-19	VU044922.D	28 Sep 2021 05:25	SY/MD	Not Ok
40	M3935-04	VU044923.D	28 Sep 2021 05:48	SY/MD	Not Ok
41	M3904-02RE	VU044924.D	28 Sep 2021 06:11	SY/MD	Confirms
42	M3829-22MS	VU044925.D	28 Sep 2021 06:35	SY/MD	Not Ok
43	M3829-23MSD	VU044926.D	28 Sep 2021 06:58	SY/MD	Not Ok
44	VSTDCCC050	VU044927.D	28 Sep 2021 07:22	SY/MD	Ok,M

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092521

Review By	john	Review On	9/25/2021 9:46:45 AM		
Supervise By	MMDadoda	Supervise On	9/25/2021 2:30:52 PM		
SubDirectory	VU092521	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106379VP106395,VP106391
Initial Calibration Stds	VP106380,VP106381,VP106382,VP106383,VP106384,VP106385
CCC	VP106396,VP106397,VP106389,VP106390
Internal Standard/PEM	VP103756
ICV/I.BLK	VP106386
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VU044819.D	24 Sep 2021 18:32		SY/MD	Ok
2	VSTDICC001	VSTDICC001	VU044820.D	24 Sep 2021 19:19		SY/MD	Ok,M
3	VSTDICC005	VSTDICC005	VU044821.D	24 Sep 2021 20:06	DOD Method	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VU044822.D	24 Sep 2021 20:29		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VU044823.D	24 Sep 2021 20:53		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VU044824.D	24 Sep 2021 21:16		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VU044825.D	24 Sep 2021 21:39		SY/MD	Ok,M
8	IBLK	IBLK	VU044826.D	24 Sep 2021 22:03		SY/MD	Ok
9	VSTDICV050	ICVVU092521	VU044827.D	24 Sep 2021 22:26		SY/MD	Ok,M
10	BFB	BFB	VU044828.D	25 Sep 2021 11:46		SY/MD	Ok
11	VSTDCCC050	VSTDCCC050	VU044829.D	25 Sep 2021 12:12	pH#Lot#V11912	SY/MD	Ok,M
12	VU0925MBL01	VU0925MBL01	VU044830.D	25 Sep 2021 12:42		SY/MD	Ok
13	VU0925WBL01	VU0925WBL01	VU044831.D	25 Sep 2021 13:05		SY/MD	Ok
14	VU0925MBS01	VU0925MBS01	VU044832.D	25 Sep 2021 13:28		SY/MD	Ok,M
15	VU0925WBS01	VU0925WBS01	VU044833.D	25 Sep 2021 13:50		SY/MD	Ok,M
16	M3829-10DL	RE105D2-20210917DL	VU044834.D	25 Sep 2021 14:13	vial B pH<2	SY/MD	Ok
17	M3784-01	STORAGE-BLANK-SO	VU044835.D	25 Sep 2021 14:36	vial A pH<2	SY/MD	Ok
18	M3784-02	STORAGE-BLANK-WA	VU044836.D	25 Sep 2021 15:00	vial A pH<2	SY/MD	Ok
19	M3784-03	STORAGE-BLANK-WA	VU044837.D	25 Sep 2021 15:23	vial A pH<2	SY/MD	Ok

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092521

Review By	john	Review On	9/25/2021 9:46:45 AM		
Supervise By	MMDadoda	Supervise On	9/25/2021 2:30:52 PM		
SubDirectory	VU092521	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106379VP106395,VP106391
Initial Calibration Stds	VP106380,VP106381,VP106382,VP106383,VP106384,VP106385
CCC	VP106396,VP106397,VP106389,VP106390
Internal Standard/PEM	VP103756
ICV/I.BLK	VP106386
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

20	M3784-04	STORAGE-BLANK-SAI	VU044838.D	25 Sep 2021 15:47	vial A pH<2	SY/MD	Ok
21	M3833-11DL	DUP01-20210920DL	VU044839.D	25 Sep 2021 16:10	vial B pH<2	SY/MD	Ok
22	M3833-16	RE126D1-20210920	VU044840.D	25 Sep 2021 16:34	vial B pH<2	SY/MD	Ok
23	M3833-18	RE126D3-20210920	VU044841.D	25 Sep 2021 16:57	vial B pH<2	SY/MD	Ok
24	M3797-05	26598	VU044842.D	25 Sep 2021 17:20		SY/MD	Ok
25	M3829-16	EB01-20210917	VU044843.D	25 Sep 2021 17:44	vial B pH<2 EB	SY/MD	Ok
26	M3829-24	RE123D2-20210918	VU044844.D	25 Sep 2021 18:07	vial B pH<2	SY/MD	Ok
27	M3829-08	RE125D2-20210917	VU044845.D	25 Sep 2021 18:31	vial A pH<2 Need 5X	SY/MD	Dilution
28	M3829-13	RE120D1-20210917	VU044846.D	25 Sep 2021 18:54	vial A pH<2 Need 10X	SY/MD	Dilution
29	M3859-01	1027-MW-01	VU044847.D	25 Sep 2021 19:18	vial A pH<2 Need 20X	SY/MD	Dilution
30	M3859-02	1028-MW-02	VU044848.D	25 Sep 2021 19:41		SY/MD	ReRun
31	M3859-03	1029-MW-03A	VU044849.D	25 Sep 2021 20:05	vial A pH<2 Need 5X	SY/MD	Dilution
32	M3875-15	20882	VU044850.D	25 Sep 2021 20:28	vial A pH<2 Need 5X	SY/MD	Dilution
33	M3895-02	210922013-01-TRIP-BL	VU044851.D	25 Sep 2021 20:52	vial A pH#6.0 TB	SY/MD	Ok
34	M3895-01	210922099-02-VOA	VU044852.D	25 Sep 2021 21:15	vial A pH#6.0	SY/MD	Ok
35	M3859-08MS	1028-MW-02MS	VU044853.D	25 Sep 2021 21:38	vial A pH<2	SY/MD	Ok,M
36	M3859-09MSD	1028-MW-02MSD	VU044854.D	25 Sep 2021 22:02	vial A pH<2	SY/MD	Ok,M
37	VSTDCCC050	VSTDCCC050EC	VU044855.D	25 Sep 2021 22:25		SY/MD	Ok,M
38	BFB	BFB	VU044856.D	25 Sep 2021 23:12		SY/MD	Ok
39	VSTDCCC050	VSTDCCC050	VU044857.D	25 Sep 2021 23:35		SY/MD	Ok,M

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092521

Review By	john	Review On	9/25/2021 9:46:45 AM		
Supervise By	MMDadoda	Supervise On	9/25/2021 2:30:52 PM		
SubDirectory	VU092521	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106379VP106395,VP106391
Initial Calibration Stds	VP106380,VP106381,VP106382,VP106383,VP106384,VP106385
CCC	VP106396,VP106397,VP106389,VP106390
Internal Standard/PEM	VP103756
ICV/I.BLK	VP106386
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

40	VU0925WBL02	VU0925WBL02	VU044858.D	26 Sep 2021 00:22		SY/MD	Ok
41	VU0925WBS02	VU0925WBS02	VU044859.D	26 Sep 2021 00:46		SY/MD	Ok,M
42	VU0925WBSD02	VU0925WBSD02	VU044860.D	26 Sep 2021 01:09		SY/MD	Ok,M
43	M3829-07	RE108D2-20210917	VU044861.D	26 Sep 2021 01:33	Need 50X	SY/MD	Dilution
44	M3829-15DL	RE120D2-20210917DL	VU044862.D	26 Sep 2021 01:56	vial A pH<2, Need to run original	SY/MD	Ok
45	M3859-06	1032-FB092021	VU044863.D	26 Sep 2021 02:20	vial A pH<2 FB;Hit of Comp. #16	SY/MD	ReRun
46	M3859-07	1033-TB092021	VU044864.D	26 Sep 2021 02:43	vial A pH<2 TB	SY/MD	Ok
47	M3859-05	1031-MW-17A	VU044865.D	26 Sep 2021 03:07	vial A pH<2	SY/MD	Ok
48	M3859-04	1030-MW-11	VU044866.D	26 Sep 2021 03:30	vial A pH<2 Need 5X	SY/MD	Dilution
49	M3888-03	20894	VU044867.D	26 Sep 2021 03:54	vial A pH<2 Need 10X	SY/MD	Dilution
50	M3888-04	20895	VU044868.D	26 Sep 2021 04:17	vial A pH<2 Need 4X	SY/MD	Dilution
51	M3888-05	20896	VU044869.D	26 Sep 2021 04:41	vial A pH<2	SY/MD	Ok
52	M3888-06	20897	VU044870.D	26 Sep 2021 05:04	vial A pH<2 Need 5X	SY/MD	Dilution
53	M3888-07	40454	VU044871.D	26 Sep 2021 05:28	vial A pH<2	SY/MD	Ok
54	M3888-08	40455	VU044872.D	26 Sep 2021 05:51	vial A pH<2	SY/MD	Ok
55	M3888-09	40456	VU044873.D	26 Sep 2021 06:15	vial A pH<2	SY/MD	Ok
56	M3888-10	40457	VU044874.D	26 Sep 2021 06:38	vial A pH<2	SY/MD	Ok
57	M3888-11	40458	VU044875.D	26 Sep 2021 07:02	vial A pH<2 Surrogate fail;Need 100X	SY/MD	Dilution
58	M3888-12	40459	VU044876.D	26 Sep 2021 07:25	vial A pH<2 E Flag of Previous sample	SY/MD	ReRun

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092521

Review By	john	Review On	9/25/2021 9:46:45 AM		
Supervise By	MMDadoda	Supervise On	9/25/2021 2:30:52 PM		
SubDirectory	VU092521	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106379VP106395,VP106391
Initial Calibration Stds	VP106380,VP106381,VP106382,VP106383,VP106384,VP106385
CCC	VP106396,VP106397,VP106389,VP106390
Internal Standard/PEM	VP103756
ICV/I.BLK	VP106386
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

59	M3888-13	20898	VU044877.D	26 Sep 2021 07:48	vial A pH<2 Confirm Concentration	SY/MD	Not Ok
60	M3893-01	MW-1	VU044878.D	26 Sep 2021 08:12	vial A pH<2	SY/MD	Ok
61	M3893-02	MW-2	VU044879.D	26 Sep 2021 08:35	vial A pH<2	SY/MD	Ok
62	M3893-03	MW-3	VU044880.D	26 Sep 2021 08:59	vial A pH<2	SY/MD	Ok
63	M3893-04	MW-4	VU044881.D	26 Sep 2021 09:22	vial A pH<2	SY/MD	Ok
64	M3893-05	DUP-1	VU044882.D	26 Sep 2021 09:46	vial A pH<2	SY/MD	Ok
65	VSTDCCC050	VSTDCCC050EC	VU044883.D	26 Sep 2021 10:09		SY/MD	Ok,M

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092721

Review By	MMDadoda	Review On	9/28/2021 7:05:26 PM		
Supervise By	SAM	Supervise On	9/28/2021 7:46:06 PM		
SubDirectory	VU092721	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106425,VP106446
Initial Calibration Stds	
CCC	VP106426,VP106427,VP106447,VP106448
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VU044884.D	27 Sep 2021 09:13		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VU044885.D	27 Sep 2021 12:20	pH#Lot#V11912	SY/MD	Ok,M
3	VU0927MBL01	VU0927MBL01	VU044886.D	27 Sep 2021 12:49		SY/MD	Ok
4	VU0927WBL01	VU0927WBL01	VU044887.D	27 Sep 2021 13:48		SY/MD	Ok
5	VU0927MBS01	VU0927MBS01	VU044888.D	27 Sep 2021 14:10		SY/MD	Ok,M
6	VU0927WBS01	VU0927WBS01	VU044889.D	27 Sep 2021 15:21		SY/MD	Ok,M
7	M3888-03DL	20894DL	VU044890.D	27 Sep 2021 15:45	vial B pH<2	SY/MD	Ok
8	M3875-13	40441	VU044891.D	27 Sep 2021 16:08		SY/MD	Ok,M
9	M3875-15DL	20882DL	VU044892.D	27 Sep 2021 16:32	vial B pH<2	SY/MD	Ok,M
10	M3888-04DL	20895DL	VU044893.D	27 Sep 2021 16:55	vial B pH<2	SY/MD	Ok
11	M3888-06DL	20897DL	VU044894.D	27 Sep 2021 17:19	vial B pH<2	SY/MD	Ok
12	M3875-11ME	20883ME	VU044895.D	27 Sep 2021 17:42		SY/MD	Ok
13	M3888-12	40459	VU044896.D	27 Sep 2021 18:06	vial B pH<2	SY/MD	Ok
14	M3888-13	20898	VU044897.D	27 Sep 2021 18:29	vial B pH<2	SY/MD	Ok
15	M3888-11DL	40458DL	VU044898.D	27 Sep 2021 18:52	Need 500X	SY/MD	Dilution
16	M3888-11DL2	40458DL2	VU044899.D	27 Sep 2021 19:16	vial B pH<2	SY/MD	Ok
17	M3792-01ME	20416ME	VU044900.D	27 Sep 2021 19:39		SY/MD	Ok
18	M3838-01	OR-02-092121	VU044901.D	27 Sep 2021 20:03		SY/MD	Ok
19	M3859-04DL	1030-MW-11DL	VU044902.D	27 Sep 2021 20:26	vial B pH<2	SY/MD	Ok

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092721

Review By	MMDadoda	Review On	9/28/2021 7:05:26 PM		
Supervise By	SAM	Supervise On	9/28/2021 7:46:06 PM		
SubDirectory	VU092721	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106425,VP106446
Initial Calibration Stds	
CCC	VP106426,VP106427,VP106447,VP106448
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

20	VSTDCCC050	VSTDCCC050EC	VU044903.D	27 Sep 2021 20:50		SY/MD	Ok,M
21	BFB	BFB	VU044904.D	27 Sep 2021 21:37		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050	VU044905.D	27 Sep 2021 22:00		SY/MD	Ok,M
23	VU0927WBL02	VU0927WBL02	VU044906.D	27 Sep 2021 23:10		SY/MD	Ok
24	VU0927WBS02	VU0927WBS02	VU044907.D	27 Sep 2021 23:33		SY/MD	Ok,M
25	VU0927WBSD02	VU0927WBSD02	VU044908.D	27 Sep 2021 23:57	Surrogate Fail	SY/MD	Not Ok
26	M3859-01DL	1027-MW-01DL	VU044909.D	28 Sep 2021 00:20	vial B pH<2	SY/MD	Ok
27	M3859-02	1028-MW-02	VU044910.D	28 Sep 2021 00:44	vial B pH<2	SY/MD	Ok
28	M3859-06	1032-FB092021	VU044911.D	28 Sep 2021 01:07	vial B pH<2 FB, HIT of comp# 16	SY/MD	Ok
29	M3859-03DL	1029-MW-03ADL	VU044912.D	28 Sep 2021 01:31	vial B pH<2	SY/MD	Ok
30	M3829-02DL	RE114D1-20210916DL	VU044913.D	28 Sep 2021 01:54	vial B pH<2	SY/MD	Ok
31	M3829-04DL	RE125D1-20210917DL	VU044914.D	28 Sep 2021 02:17	vial B pH<2	SY/MD	Ok
32	M3829-06DL	RE125D3-20210917DL	VU044915.D	28 Sep 2021 02:41	vial B pH<2	SY/MD	Ok
33	M3829-07DL	RE108D2-20210917DL	VU044916.D	28 Sep 2021 03:04	vial B pH<2	SY/MD	Ok
34	M3829-08DL	RE125D2-20210917DL	VU044917.D	28 Sep 2021 03:28	vial B pH<2	SY/MD	Ok
35	M3829-13DL	RE120D1-20210917DL	VU044918.D	28 Sep 2021 03:51	vial B pH<2	SY/MD	Ok
36	M3915-15	TB05-20210921	VU044919.D	28 Sep 2021 04:14	TB, End CCC fail	SY/MD	Not Ok
37	M3915-17	RE109D3-20210922	VU044920.D	28 Sep 2021 04:38	End CCC fail	SY/MD	Not Ok
38	M3915-18	RW4-20210922	VU044921.D	28 Sep 2021 05:01	Need 10X, End CCC fail	SY/MD	Not Ok
39	M3915-19	RE109D1-20210922	VU044922.D	28 Sep 2021 05:25	E Flag in Previous sample, End CCC fail	SY/MD	Not Ok

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Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU092721

Review By	MMDadoda	Review On S	9/28/2021 7:05:26 PM		
Supervise By	SAM	upervise On	9/28/2021 7:46:06 PM		
SubDirectory	VU092721	HP Acquire Method	MSVOA_U	HP Processing Method	82U092521W.M

STD. NAME	STD REF.#
Tune/Reschk	VP106425,VP106446
Initial Calibration Stds	
CCC	VP106426,VP106427,VP106447,VP106448
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

40	M3935-04	TP-1-S	VU044923.D	28 Sep 2021 05:48	tclp on hold	SY/MD	Not Ok
41	M3904-02RE	JET-GROUT-SPOIL-ST	VU044924.D	28 Sep 2021 06:11	vial B pH#5.0 Surrogate Fail	SY/MD	Confirms
42	M3829-22MS	MW202D-20210918MS	VU044925.D	28 Sep 2021 06:35	End CCC fail	SY/MD	Not Ok
43	M3829-23MSD	MW202D-20210918MS	VU044926.D	28 Sep 2021 06:58	End CCC fail	SY/MD	Not Ok
44	VSTDCCC050	VSTDCCC050EC	VU044927.D	28 Sep 2021 07:22		SY/MD	Ok,M

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Prep Standard - Chemical Standard Summary

Order ID : M3859

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: vu092521,VU092721,

Standard ID :
VP102829,VP103156,VP103157,VP103756,VP103914,VP104196,VP105171,VP105193,VP105195,VP105197,VP106077,
VP106079,VP106187,VP106189,VP106261,VP106263,VP106265,VP106379VP106395,VP106380,VP106381,VP106382,V
P106383,VP106384,VP106385,VP106386,VP106389,VP106390,VP106391,VP106396,VP106397,VP106425,VP106426,V
P106427,VP106446,VP106447,VP106448,

Chemical ID :
V10265,V10598,V10688,V10713,V10714,V10715,V10716,V10717,V10718,V10719,V10967,V 11044,V11175,V11179,V11262
,V11263,V11264,V11265,V11276,V11304,V11311,V11312,V11539,V11548,V11619,V11664,V11693,V11696,V11709,V11710,
V11723,V11728,V11854,V11855,V11871,V11874,V11883,V11885,V11886,V11899,V11900,V11922,V12108,V12129,V12130,
V12154,V12164,V12165,V12166,V12167,V12168,V12169,V8728,W2606,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP102829	05/10/2021	11/10/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/10/2021

FROM 1.20000ml of V10713 + 1.20000ml of V10714 + 1.20000ml of V10715 + 1.40000ml of V10716 + 20.00000ml of V11886 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP103156	05/19/2021	11/19/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/19/2021

FROM 0.40000ml of V10688 + 24.60000ml of V11871 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP103157	05/19/2021	11/19/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/19/2021

FROM 0.02000ml of V10688 + 24.99000ml of V11871 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP103756	06/10/2021	12/10/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2021

FROM 0.50000ml of V10265 + 49.50000ml of V11883 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP103914	06/15/2021	12/15/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/16/2021

FROM 0.50000ml of V10598 + 49.50000ml of V11885 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
262	8260 Working STD (BCM)-Second source, 100PPM	VP104196	06/28/2021	12/28/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/30/2021

FROM 1.50000ml of V8728 + 13.50000ml of V11874 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP105171	08/09/2021	09/25/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/10/2021

FROM 0.16000ml of V11179 + 0.40000ml of V11728 + 0.80000ml of V10967 + 0.80000ml of V11044 + 0.80000ml of V11304 + 0.80000ml of V11619 + 0.80000ml of V11664 + 1.20000ml of V11723 + 4.24000ml of V12108 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP105193	08/09/2021	02/09/2022	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/10/2021

FROM 1.00000ml of V11262 + 1.00000ml of V11263 + 1.00000ml of V11264 + 1.00000ml of V11265 + 46.00000ml of V12108 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP105195	08/09/2021	02/09/2022	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/10/2021

FROM 0.25000ml of V11265 + 24.75000ml of V12108 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP105197	08/09/2021	02/09/2022	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/10/2021

FROM 0.80000ml of V11276 + 9.20000ml of V12108 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP106077	09/15/2021	03/15/2022	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/17/2021

FROM 1.10000ml of V11922 + 1.30000ml of V10717 + 1.30000ml of V10718 + 1.30000ml of V10719 + 20.00000ml of V12154 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP106079	09/15/2021	03/15/2022	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/17/2021

FROM 0.25000ml of V11922 + 24.75000ml of V12154 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP106187	09/20/2021	10/26/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/21/2021

FROM 0.40000ml of V11175 + 0.40000ml of V11710 + 0.80000ml of V11312 + 0.80000ml of V11539 + 0.80000ml of V11855 + 0.80000ml of V11900 + 0.80000ml of V12130 + 1.20000ml of V11311 + 1.20000ml of V11548 + 1.20000ml of V11693 + 1.20000ml of V11696 + 1.20000ml of V11709 + 1.20000ml of V11854 + 1.20000ml of V11899 + 1.20000ml of V12129 + 10.60000ml of V12154 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP106189	09/20/2021	10/26/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/21/2021

FROM 17.50000ml of V12154 + 2.50000ml of VP106187 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP106261	09/22/2021	10/20/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/22/2021

FROM 0.40000ml of V12167 + 1.20000ml of V12164 + 1.20000ml of V12165 + 1.20000ml of V12166 + 21.00000ml of V12154 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP106263	09/22/2021	10/20/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/22/2021

FROM 17.50000ml of V12154 + 2.50000ml of VP106261 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP106265	09/22/2021	10/18/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/22/2021

FROM 0.40000ml of V12169 + 1.20000ml of V12168 + 8.40000ml of V12154 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
334	1 PPB ICC, 8260-Water	VP106380	09/24/2021	09/25/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.98200ml of W2606 + 0.00200ml of VP103157 + 0.00200ml of VP105195 + 0.00200ml of VP106079 + 0.00200ml of VP106189 + 0.00200ml of VP106263 + 0.00800ml of VP103756 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
335	5 PPB ICC, 8260-Water	VP106381	09/24/2021	09/25/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.94200ml of W2606 + 0.00800ml of VP103756 + 0.01000ml of VP103157 + 0.01000ml of VP105195 + 0.01000ml of VP106079 + 0.01000ml of VP106189 + 0.01000ml of VP106263 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
337	20 PPB ICC, 8260-Water	VP106382	09/24/2021	09/25/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.97000ml of W2606 + 0.00200ml of VP103156 + 0.00200ml of VP106077 + 0.00500ml of VP105193 + 0.00500ml of VP106187 + 0.00500ml of VP106261 + 0.00800ml of VP103756 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
380	50 PPB ICC, 8260-Water	VP106383	09/24/2021	09/25/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP103156 + 0.00500ml of VP106077 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
381	100 PPB ICC, 8260-Water	VP106384	09/24/2021	09/25/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.89700ml of W2606 + 0.00800ml of VP103756 + 0.01000ml of VP103156 + 0.01000ml of VP106077 + 0.02500ml of VP105193 + 0.02500ml of VP106187 + 0.02500ml of VP106261 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
382	150 PPB ICC, 8260-Water	VP106385	09/24/2021	09/25/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.84950ml of W2606 + 0.00800ml of VP103756 + 0.01500ml of VP103156 + 0.01500ml of VP106077 + 0.03750ml of VP105193 + 0.03750ml of VP106187 + 0.03750ml of VP106261 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
385	50 PPB ICV, 8260-Water	VP106386	09/24/2021	09/25/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.92950ml of W2606 + 0.00500ml of VP103156 + 0.00800ml of VP103756 + 0.01250ml of VP105171 + 0.01250ml of VP105197 + 0.01250ml of VP106265 + 0.02000ml of VP104196 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106389	09/25/2021	09/26/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP103156 + 0.00500ml of VP106077 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106390	09/25/2021	09/26/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP103156 + 0.00500ml of VP106077 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP106391	09/25/2021	09/26/2021	John Carlone	None	None	Mahesh Dadoda 09/25/2021

FROM 39.98400ml of W2606 + 0.01600ml of VP103914 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106396	09/25/2021	09/26/2021	Mahesh Dadoda	None	None	John Carlone 09/30/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP102829 + 0.00500ml of VP103156 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106397	09/25/2021	09/26/2021	Mahesh Dadoda	None	None	John Carlone 09/30/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP102829 + 0.00500ml of VP103156 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP106425	09/27/2021	09/28/2021	John Carlone	None	None	Mahesh Dadoda 09/28/2021

FROM 39.98400ml of W2606 + 0.01600ml of VP103914 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106426	09/27/2021	09/28/2021	John Carlone	None	None	Mahesh Dadoda 09/28/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP103156 + 0.00500ml of VP106077 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106427	09/27/2021	09/28/2021	John Carlone	None	None	Mahesh Dadoda 09/28/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP103156 + 0.00500ml of VP106077 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP106446	09/27/2021	09/28/2021	John Carlone	None	None	Mahesh Dadoda 09/28/2021

FROM 39.98400ml of W2606 + 0.01600ml of VP103914 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106447	09/27/2021	09/28/2021	John Carlone	None	None	Mahesh Dadoda 09/28/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP103156 + 0.00500ml of VP106077 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP106448	09/27/2021	09/28/2021	John Carlone	None	None	Mahesh Dadoda 09/28/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP103156 + 0.00500ml of VP106077 + 0.00800ml of VP103756 + 0.01250ml of VP105193 + 0.01250ml of VP106187 + 0.01250ml of VP106261 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0153385	12/10/2021	06/10/2021 / SAM	10/01/2019 / sam	V10265

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0147670	12/15/2021	06/15/2021 / SAM	01/09/2020 / sam	V10598

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0158153	11/19/2021	05/19/2021 / SAM	02/28/2020 / sam	V10688

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	11/10/2021	05/10/2021 / sam	03/05/2020 / sam	V10713

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	11/10/2021	05/10/2021 / sam	03/05/2020 / sam	V10714

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	11/10/2021	05/10/2021 / sam	03/05/2020 / sam	V10715

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	11/10/2021	05/10/2021 / sam	03/05/2020 / sam	V10716

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	03/15/2022	09/15/2021 / SAM	03/05/2020 / sam	V10717

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	03/15/2022	09/15/2021 / SAM	03/05/2020 / sam	V10718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0155519	03/15/2022	09/15/2021 / SAM	03/05/2020 / sam	V10719

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	050119	02/02/2022	08/02/2021 / MMDadoda	06/05/2020 / sam	V10967

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	010419	01/04/2022	08/02/2021 / MMDadoda	07/16/2020 / sam	V11044

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0160703	02/09/2022	08/09/2021 / SAM	08/21/2020 / sam	V11175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0158421	12/18/2021	06/18/2021 / SAM	08/21/2020 / sam	V11179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	082620	02/09/2022	08/09/2021 / SAM	09/18/2020 / sam	V11262

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	082620	02/09/2022	08/09/2021 / SAM	09/18/2020 / sam	V11263

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	082620	02/09/2022	08/09/2021 / SAM	09/18/2020 / sam	V11264

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	082620	02/09/2022	08/09/2021 / SAM	09/18/2020 / sam	V11265

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	063020	02/09/2022	08/09/2021 / SAM	09/18/2020 / sam	V11276

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0162296	01/30/2022	07/30/2021 / MMDadoda	10/02/2020 / sam	V11304

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0160196	03/10/2022	09/10/2021 / SAM	10/02/2020 / sam	V11311

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0160196	03/10/2022	09/10/2021 / SAM	10/02/2020 / sam	V11312

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0162411	01/31/2022	09/10/2021 / SAM	12/24/2020 / SAM	V11539

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0162411	01/31/2022	09/10/2021 / SAM	12/24/2020 / SAM	V11548

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0168063	02/09/2022	08/09/2021 / SAM	01/19/2021 / SAM	V11619

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0164167	02/02/2022	08/02/2021 / MMDadoda	03/01/2021 / SAM	V11664

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0164763	03/10/2022	09/10/2021 / SAM	03/01/2021 / SAM	V11693

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0164763	03/10/2022	09/10/2021 / SAM	03/01/2021 / SAM	V11696

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0164763	03/10/2022	09/10/2021 / SAM	03/01/2021 / SAM	V11709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0164763	03/10/2022	09/10/2021 / SAM	03/01/2021 / SAM	V11710

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0159420	02/09/2022	08/09/2021 / SAM	03/01/2021 / SAM	V11723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0159420	02/02/2022	08/02/2021 / MMDadoda	03/01/2021 / SAM	V11728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	031921	03/10/2022	09/10/2021 / SAM	03/25/2021 / SAM	V11854

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	031921	03/10/2022	09/10/2021 / SAM	03/25/2021 / SAM	V11855

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000272901	11/19/2021	05/19/2021 / SAM	04/29/2021 / SAM	V11871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000272901	12/28/2021	06/28/2021 / SAM	04/29/2021 / SAM	V11874

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000272901	12/10/2021	06/10/2021 / SAM	04/29/2021 / SAM	V11883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000272901	12/15/2021	06/15/2021 / SAM	04/29/2021 / SAM	V11885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000258810	11/10/2021	05/10/2021 / sam	04/29/2021 / SAM	V11886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	042921	03/10/2022	09/10/2021 / SAM	04/30/2021 / SAM	V11899

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	042921	03/10/2022	09/10/2021 / SAM	04/30/2021 / SAM	V11900

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0170110	03/15/2022	09/15/2021 / SAM	05/17/2021 / SAM	V11922

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000272901	02/09/2022	08/09/2021 / SAM	06/25/2021 / SAM	V12108

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0174179	01/31/2022	09/10/2021 / SAM	07/09/2021 / SAM	V12129

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0174179	01/31/2022	09/10/2021 / SAM	07/09/2021 / SAM	V12130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	0000229971	03/15/2022	09/15/2021 / SAM	08/31/2021 / SAM	V12154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	092021	10/20/2021	09/22/2021 / SAM	09/22/2021 / SAM	V12164

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	092021	10/20/2021	09/22/2021 / SAM	09/22/2021 / SAM	V12165

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	092021	10/20/2021	09/22/2021 / SAM	09/22/2021 / SAM	V12166

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	092021	10/20/2021	09/22/2021 / SAM	09/22/2021 / SAM	V12167

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091821	10/18/2021	09/22/2021 / SAM	09/22/2021 / SAM	V12168

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091821	10/18/2021	09/22/2021 / SAM	09/22/2021 / SAM	V12169

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	072918	12/28/2021	06/28/2021 / SAM	07/27/2018 / sam	V8728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000258810
Manufactured Date: 2020/04/01
Expiration Date: 2023/04/01
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.5000
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms / Fails	Conforms

For Laboratory, Research or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000272901
Manufactured Date: 2020/10/23
Expiration Date: 2023/10/23
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.8000
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms / Fails	Conforms

For Laboratory, Research or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091821
Description: Acrolein

Expiration Date: 101821
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 091321Q

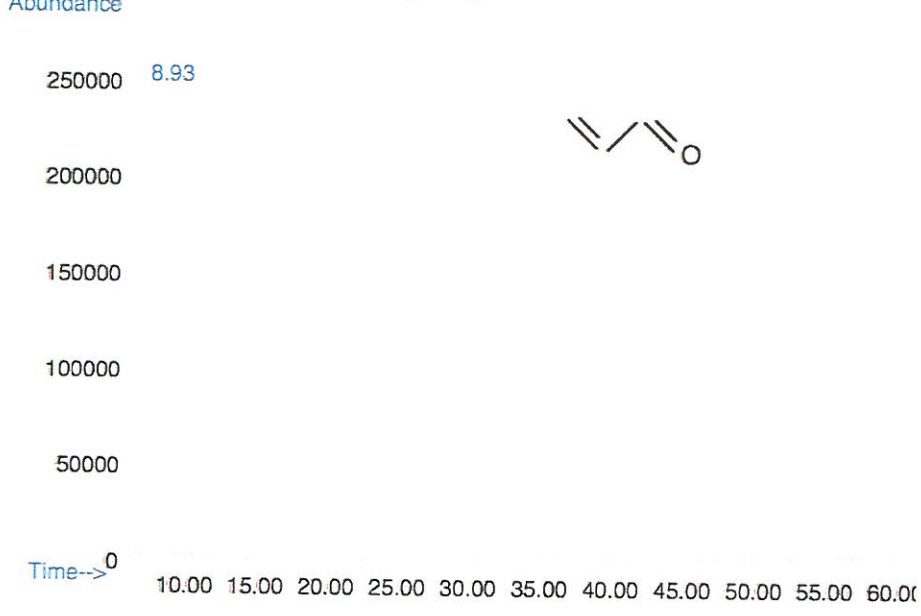
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.002 Flask Uncertainty

	091821
Formulated By: Justin Dippold	DATE
	091821
Reviewed By: Pedro L. Rentas	DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrolein	5	012019ACR2	5000	99	0.2	0.05061	0.05075	5013.4	22.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D



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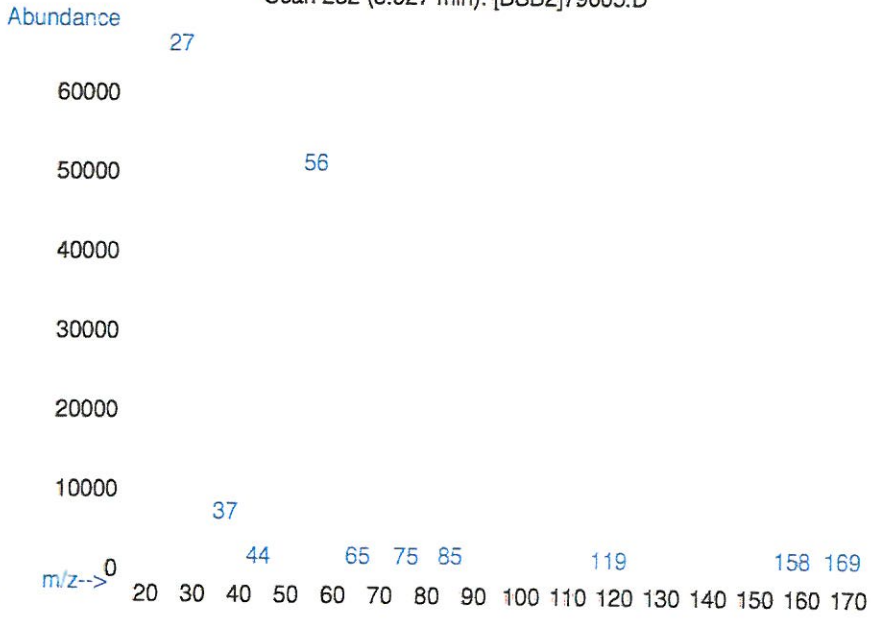


- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2019

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Vapor Density (AIR = 1)	NA		0°C
	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water: Completely miscible

Appearance and Odor: CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: NA
Conditions to avoid: NA
Materials to avoid: NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat: NA
LC50 Inhalation - Rat: NA
LD50 Dermal - Guinea pig: NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50: NA
EC50: NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 092021
Description: Acrolein

Expiration Date: 102021
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

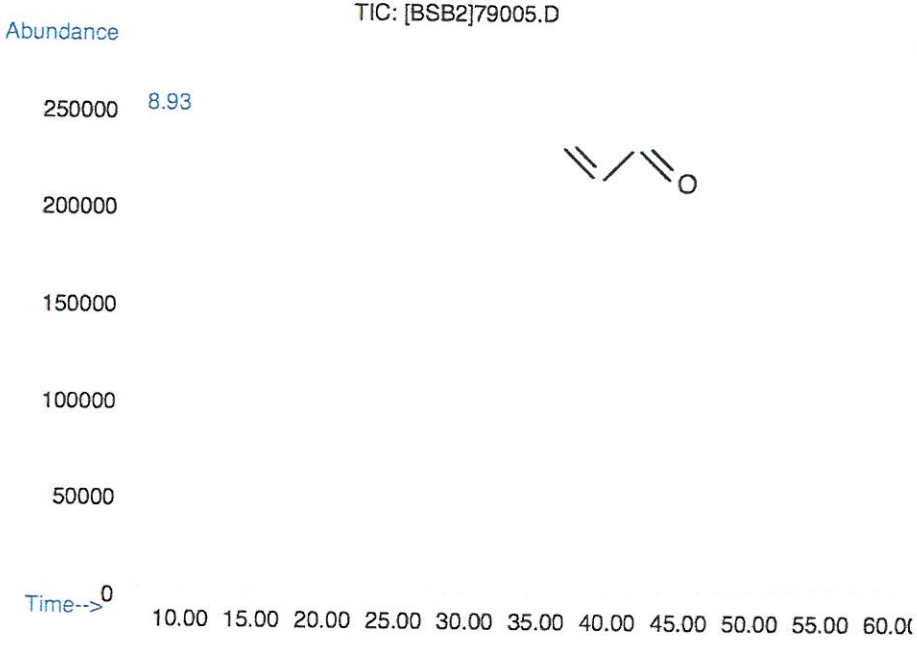
Solvent(s): Water **Lot#** 091321Q

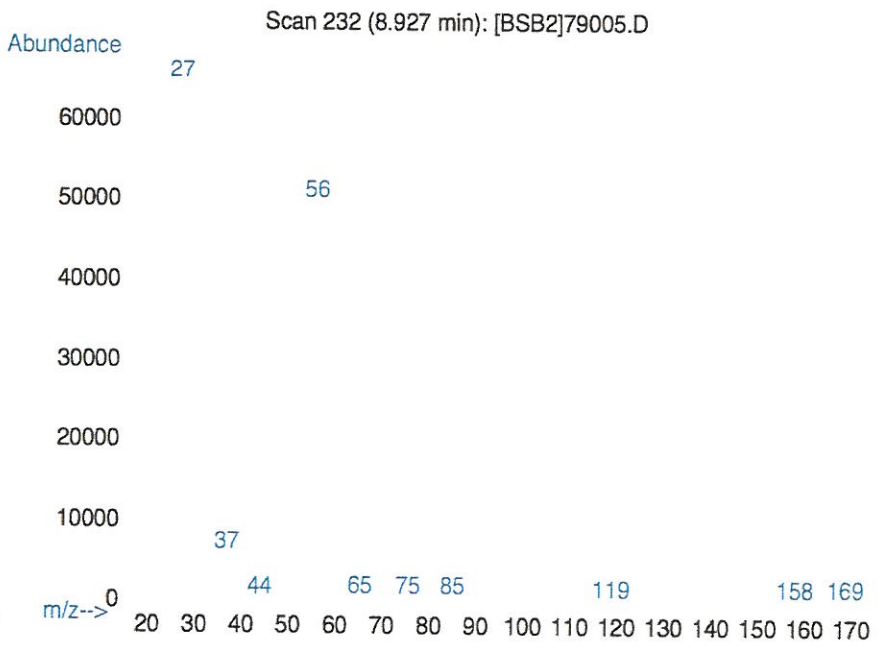
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.010 Flask Uncertainty

Formulated By:	Prashant Chauhan	092021 DATE
Reviewed By:	Pedro L. Rentas	092021 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	012019ACR	5000	99	0.2	0.10099	0.10128	5014.4	21.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408 **Lot No.:** A0174179

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	8,012.5 µg/mL	+/- 74.1492 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot RD200601)		+/- 486.8594 µg/mL	Unstressed
	Purity 99%		+/- 487.9991 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Michael J Maye

Date Mixed: 07-Jul-2021 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK

Safety Data Sheet

Revision Date: 06/25/21
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555408-FL / Custom Vinyl Acetate Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	4
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Carcinogenicity Category 2 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed or in contact with skin. Suspected of causing cancer. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see section 4.

Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (No information to prove exclusion of certain routes of exposure)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	99.2
Vinyl acetate	108-05-4	203-545-4	0.8

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a

minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment Wash thoroughly after handling Avoid contact with material. Remove contaminated clothing and wash before reuse "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition Keep away from heat, sparks, and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
Vinyl acetate	108-05-4	Not established	15 ppm STEL; 53 mg/m3 STEL	10 ppm TWA; 35 mg/m3 TWA	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Explosion proof exhaust ventilation should be used.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	72.8 °C (NLM_HSDB) 64.7 °C at 760 mmHg (NLM_HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	18
Flammability:	Extremely Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	0
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available

Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	100
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.Contamination
Materials to Avoid / Chemical Incompatiability:	Acids Oxidizing materials Peroxides Strong alkalies
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Vinyl acetate Acetic acid, vinyl ester	108-05-4	Inhalation LC50 Rat : 11400 mg/m3/4H; Inhalation LC50 Mouse : 1550 ppm/4H; Oral LD50 Rat : 2920 mg/kg; Oral LD50 Mouse : 1613 mg/kg; Dermal LD50 Rabbit : 2335 mg/kg
Methanol	67-56-1	Dermal LD50 Rabbit 15840 mg/kg; Inhalation LC50 Rat 22500 ppm 8 h; Oral LD50 Rat 6200 mg/kg

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	Present

ACGIH:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.
Monograph 63; 1995	108-05-4	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3(6.1)
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
Vinyl acetate	108-05-4	X	X	X	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation

Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
Vinyl acetate	108-05-4	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 02/05/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

RESTEK

Safety Data Sheet

Revision Date: 06/25/21
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555408-SL / Custom Vinyl Acetate Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	4
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Carcinogenicity Category 2 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed or in contact with skin. Suspected of causing cancer. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see section 4.

Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (No information to prove exclusion of certain routes of exposure)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	99.2
Vinyl acetate	108-05-4	203-545-4	0.8

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill,

	the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment Wash thoroughly after handling Avoid contact with material. Remove contaminated clothing and wash before reuse "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition Keep away from heat, sparks, and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
Vinyl acetate	108-05-4	Not established	15 ppm STEL; 53 mg/m3 STEL	10 ppm TWA; 35 mg/m3 TWA	No data available

Personal Protection:

Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Explosion proof exhaust ventilation should be used.
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	72.8 °C (NLM_HSDB) 64.7 °C at 760 mmHg (NLM_HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	18
Flammability:	Extremely Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C

Decomposition Temperature (°C):	0
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	100
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.Contamination
Materials to Avoid / Chemical Incompatiability:	Acids Oxidizing materials Peroxides Strong alkalies
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Vinyl acetate Acetic acid, vinyl ester	108-05-4	Inhalation LC50 Rat : 11400 mg/m3/4H; Inhalation LC50 Mouse : 1550 ppm/4H; Oral LD50 Rat : 2920 mg/kg; Oral LD50 Mouse : 1613 mg/kg; Dermal LD50 Rabbit : 2335 mg/kg
Methanol	67-56-1	Dermal LD50 Rabbit 15840 mg/kg; Inhalation LC50 Rat 22500 ppm 8 h; Oral LD50 Rat 6200 mg/kg

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	Present

ACGIH:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.
Monograph 63; 1995	108-05-4	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3(6.1)
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
Vinyl acetate	108-05-4	X	X	X	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
Vinyl acetate	108-05-4	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 02/05/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000229971
Manufactured Date: 2019/04/11
Expiration Date: 2022/04/10
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.3000
Titrable Acid (µeq/g)	<= 0.3	0.3
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	0.01
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms / Fails	Conforms

For Laboratory, Research or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 010419
Description: Universal VOA Megamix
69 components
Expiration Date: 010422
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 2684186

Solvent(s): Methanol Lot# DT140Q6

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Eli Aliaga 010419
Formulated By: Eli Aliaga, DATE

Pedro Rentas 010419
Reviewed By: Pedro L. Rentas DATE

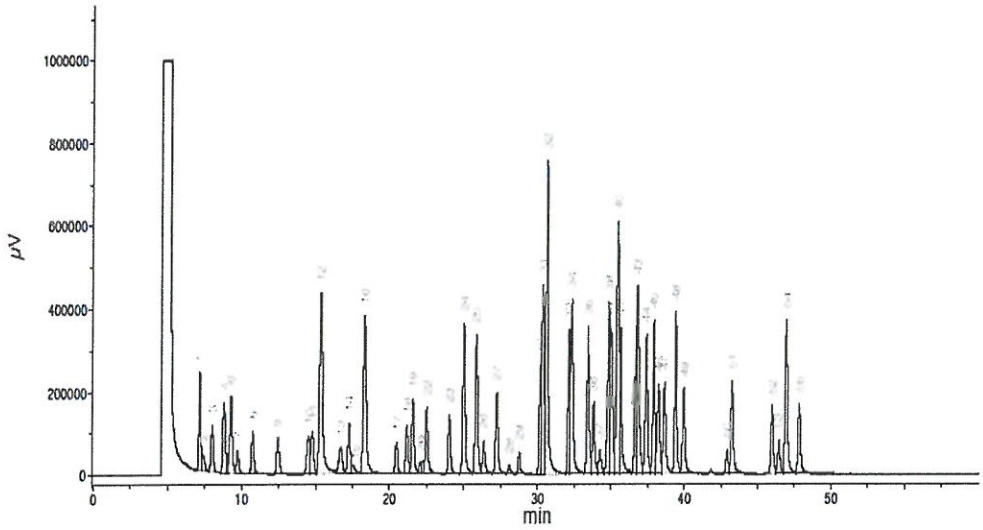
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20040	2001.8	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20210	2000.6	8.1	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKBZ6689V	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21060	2000.5	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20728	0.20745	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	209453	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20210	2000.6	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20140	2003.7	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20110	2000.7	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20120	2009.8	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	03021BX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20225	2002.1	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21060	2000.5	8.5	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20410	0.20425	2001.4	8.2	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	051118	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	1999.9	15.8	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	051118	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.9	15.8	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	122818	0.10	10.00	20005.5	2000	NA	NA	0.042	NA	NA	2000.3	18.7	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	1999.9	18.7	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.0	18.7	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	1999.9	18.7	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.0	18.7	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.0	18.7	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	052418	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	052418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	052418	0.05	5.00	39639.5	2000	NA	NA	0.017	NA	NA	1981.8	24.2	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	052418	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	16.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	052418	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.8	15.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	15.9	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	052418	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.8	15.8	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	060418	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	060418	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	060418	0.05	5.00	40000.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	108-67-8	N/A	N/A
57.	m-Xylene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	051118	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.9	15.8	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	051118	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.8	15.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	051118	0.05	5.00	40002.3	2000	NA	NA	0.017	NA	NA	1999.9	15.8	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.9	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.9	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	051118	0.05	5.00	40001.1	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 26, "P95317 L010419 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Wed, Jan 9, 2019 at 1:40:49 PM.
Sampled: Sequence "010819-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Analyte	FID RT (min.)
1	Ether	7.15
2	1,1,2-Trichloro-1,2,2-trifluoroethane	7.37
3	1,1-Dichloroethene	7.86
4	Acetonitrile	8.80
5	Iodomethane	9.01
6	Allyl chloride	9.27
7	**Carbon disulfide/Methylene chloride**	9.73
8	trans-1,2-Dichloroethene	10.73
9	1,1-Dichloroethane	12.44
10	2,2-Dichloropropane	14.49
11	cis-1,2-Dichloroethene	14.76
12	**Methacrylonitrile/Methyl acrylate/Chloroform**	15.33
13	**Isobutanol/1,1,1-Trichloroethane**	16.69
14	1,1-Dichloropropene	17.26
15	Carbon tetrachloride	17.72
16	**Benzene/1,2-Dichloroethane**	18.29
17	Trichloroethene	20.45
18	1,2-Dichloropropane	21.17
19	Methyl methacrylate	21.56
20	Bromodichloromethane	22.25
21	Dibromomethane	22.83
22	2-Nitropropane	22.98
23	cis-1,3-Dichloropropene	24.89
24	Toluene	24.97
25	**Ethyl methacrylate/trans-1,3-Dichloropropene**	27.82
26	1,1,2-Trichloroethane	28.33
27	**Tetrachloroethene/1,3-Dichloropropane**	27.70
28	Dibromochloromethane	30.86
29	1,2-Dibromoethane	28.72
30	Chlorobenzene	30.14
31	**Ethylbenzene/1,1,1,2-Tetrachloroethane**	30.32
32	**m-Xylene/p-Xylene**	30.59
33	o-Xylene	32.12
34	Styrene	32.30
35	**Isopropylbenzene/Bromoform**	33.39
36	cis-1,4-Dichloro-2-butene	33.89
37	1,1,2,2-Tetrachloroethane	34.21
38	**1,2,3-Trichloropropane/n-Propylbenzene**	34.82
39	**trans-1,4-Dichloro-2-butene/Bromobenzene**	34.99
40	**1,3,5-Trimethylbenzene/2-Chlorotoluene**	35.42
41	4-Chlorotoluene	35.61
42	tert-Butylbenzene	36.54
43	**1,2,4-Trimethylbenzene/Pentachloroethane**	36.78
44	sec-Butylbenzene	37.38
45	p-Isopropyltoluene	37.91
46	1,3-Dichlorobenzene	38.13
47	1,4-Dichlorobenzene	38.64
48	n-Butylbenzene	39.38
49	1,2-Dichlorobenzene	39.86
50	1,2-Dibromo-3-chloropropane	42.99
51	Nitrobenzene	43.23
52	1,2,4-Trichlorobenzene	45.95
53	Hexachlorobutadiene	46.41
54	Naphthalene	46.90
55	1,2,3-Trichlorobenzene	47.79

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** May 1, 2019

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0160196

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2026 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,000.8 µg/mL	+/- 13.6549 µg/mL +/- 112.4100 µg/mL +/- 115.0297 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,001.1 µg/mL	+/- 13.2219 µg/mL +/- 112.3743 µg/mL +/- 114.9956 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,002.0 µg/mL	+/- 13.9531 µg/mL +/- 112.5119 µg/mL +/- 115.1324 µg/mL	Gravimetric Unstressed Stressed
4	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,000.1 µg/mL	+/- 13.8657 µg/mL +/- 112.3970 µg/mL +/- 115.0153 µg/mL	Gravimetric Unstressed Stressed
5	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	1,999.5 µg/mL	+/- 13.2647 µg/mL +/- 112.2929 µg/mL +/- 114.9120 µg/mL	Gravimetric Unstressed Stressed
6	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 (Lot MKCJ8658) **Purity** 99%	2,001.4 µg/mL	+/- 13.9770 µg/mL +/- 112.4806 µg/mL +/- 115.1001 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

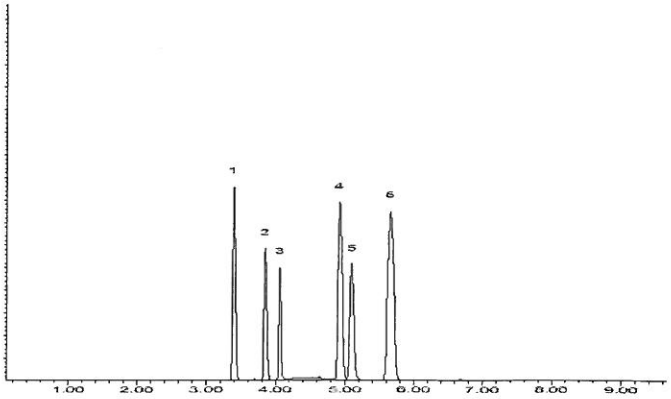
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 22-Apr-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 27-Apr-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 042921
Description: Universal VOA Megamix
69 components
Expiration Date: 042924
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol DY186-USQ8

Formulated By:	Eli Aliaga	042921 DATE
Reviewed By:	Pedro L. Rentas	042921 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20041	2002.0	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20233	2003.0	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCD9804	NA	NA	NA	2000	100	0.2	NA	0.20001	0.20015	2001.4	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21054	0.21060	2000.6	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20726	0.20751	2002.4	8.4	110-57-6	N/A	N/A
6. Diethyl ether (Ethyl ether)	(0153)	SHBK1918	NA	NA	NA	2000	99.9	0.2	NA	0.20023	0.20046	2002.3	8.1	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20230	2002.7	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20130	2002.8	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20123	2002.1	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20220	2001.7	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20046	2002.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20048	2002.7	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20218	2001.5	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20556	0.20566	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20409	0.20418	2000.9	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20221	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	100220	0.05	5.00	40018.8	2000	NA	NA	0.017	NA	NA	2000.8	18.4	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	100220	0.05	5.00	40007.7	2000	NA	NA	0.017	NA	NA	2000.3	18.4	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	100220	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	100220	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	2000.2	18.4	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	100220	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	031821	0.10	10.00	20009.1	2000	NA	NA	0.042	NA	NA	2000.8	19.3	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	2000.0	19.2	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.1	19.2	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.9	2000	NA	NA	0.042	NA	NA	2000.0	19.3	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.1	19.3	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.1	19.3	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	011421	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	011421	0.05	5.00	40003.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	011421	0.05	5.00	40004.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	011421	0.05	5.00	40002.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	011421	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	011421	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2000.7	26.1	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	011421	0.05	5.00	40004.4	2000	NA	NA	0.017	NA	NA	2000.1	18.4	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	011421	0.05	5.00	40009.1	2000	NA	NA	0.017	NA	NA	2000.4	18.5	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	011421	0.05	5.00	40003.5	2000	NA	NA	0.017	NA	NA	2000.1	26.4	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.5	18.4	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.0	2000	NA	NA	0.017	NA	NA	2000.5	18.4	79-34-5	5 ppm (35mg/m3/9H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	011421	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.9	18.4	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	011421	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	2000.1	18.4	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	011421	0.05	5.00	40015.2	2000	NA	NA	0.017	NA	NA	2000.7	18.4	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	020821	0.05	5.00	40019.0	2000	NA	NA	0.017	NA	NA	2000.9	18.4	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	020821	0.05	5.00	40019.8	2000	NA	NA	0.017	NA	NA	2000.9	18.4	104-51-8	N/A	N/A
48. Ethyl benzene	35162	020821	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.9	18.4	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	020821	0.05	5.00	40056.4	2000	NA	NA	0.017	NA	NA	2002.7	18.4	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	020821	0.05	5.00	40005.1	2000	NA	NA	0.017	NA	NA	2000.2	18.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	020821	0.05	5.00	40022.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	020821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	020821	0.05	5.00	40027.4	2000	NA	NA	0.017	NA	NA	2001.3	18.4	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	020821	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	020821	0.05	5.00	40011.5	2000	NA	NA	0.017	NA	NA	2000.5	18.5	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	020821	0.05	5.00	40021.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	022521	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	18.4	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	022521	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	022521	0.05	5.00	40009.0	2000	NA	NA	0.017	NA	NA	2000.4	18.4	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	022521	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	022521	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.9	18.4	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	022521	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	022521	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	022521	0.05	5.00	40007.4	2000	NA	NA	0.017	NA	NA	2000.3	18.4	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	022521	0.05	5.00	40004.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	022521	0.05	5.00	40003.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** May 1, 2019

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 063020
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** DX932-US

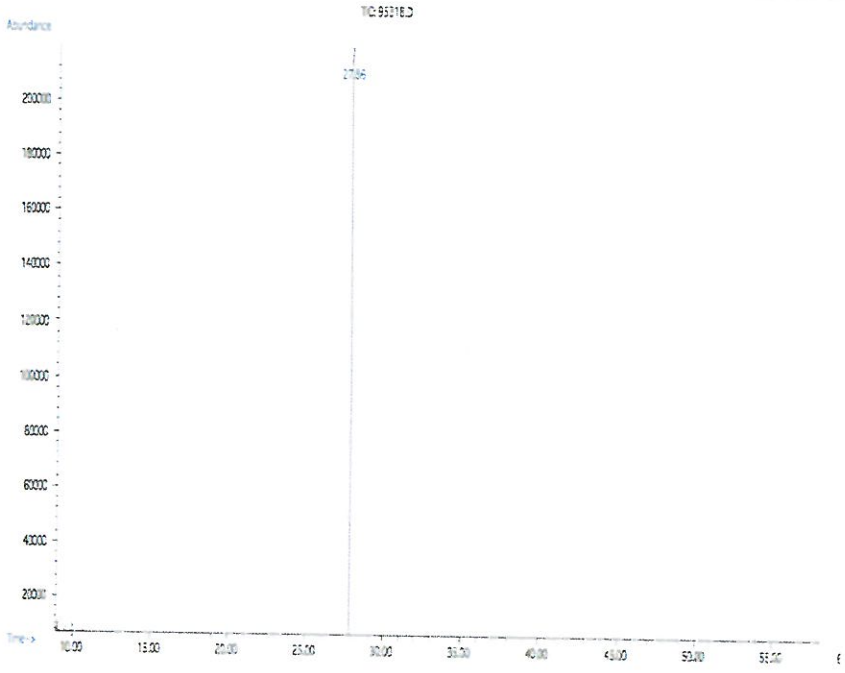
Expiration Date: 063023
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 23060

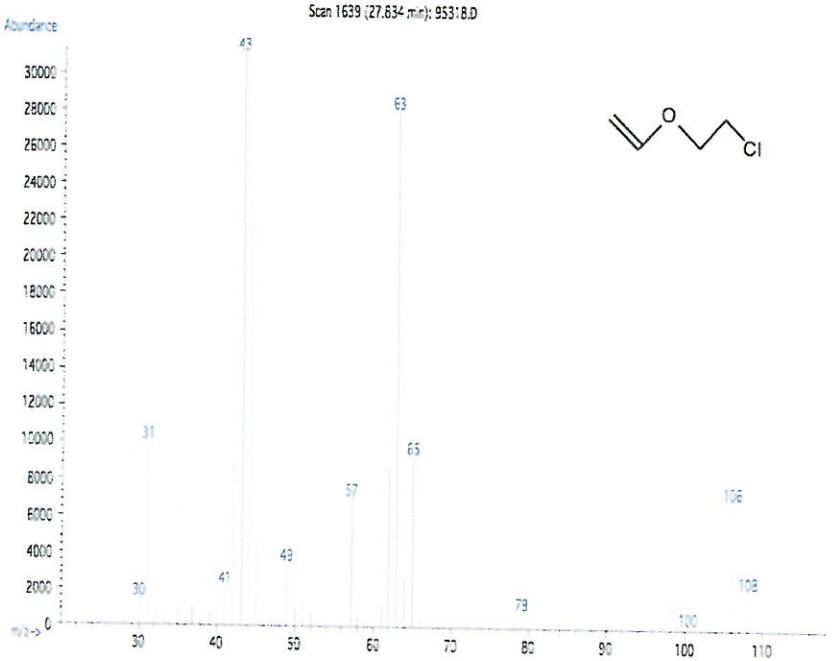
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.002 Flask Uncertainty

Formulated By: Benson Chan	063020 DATE
Reviewed By: Pedro L. Rentas	063020 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30284	0.30298	10004.6	40.6	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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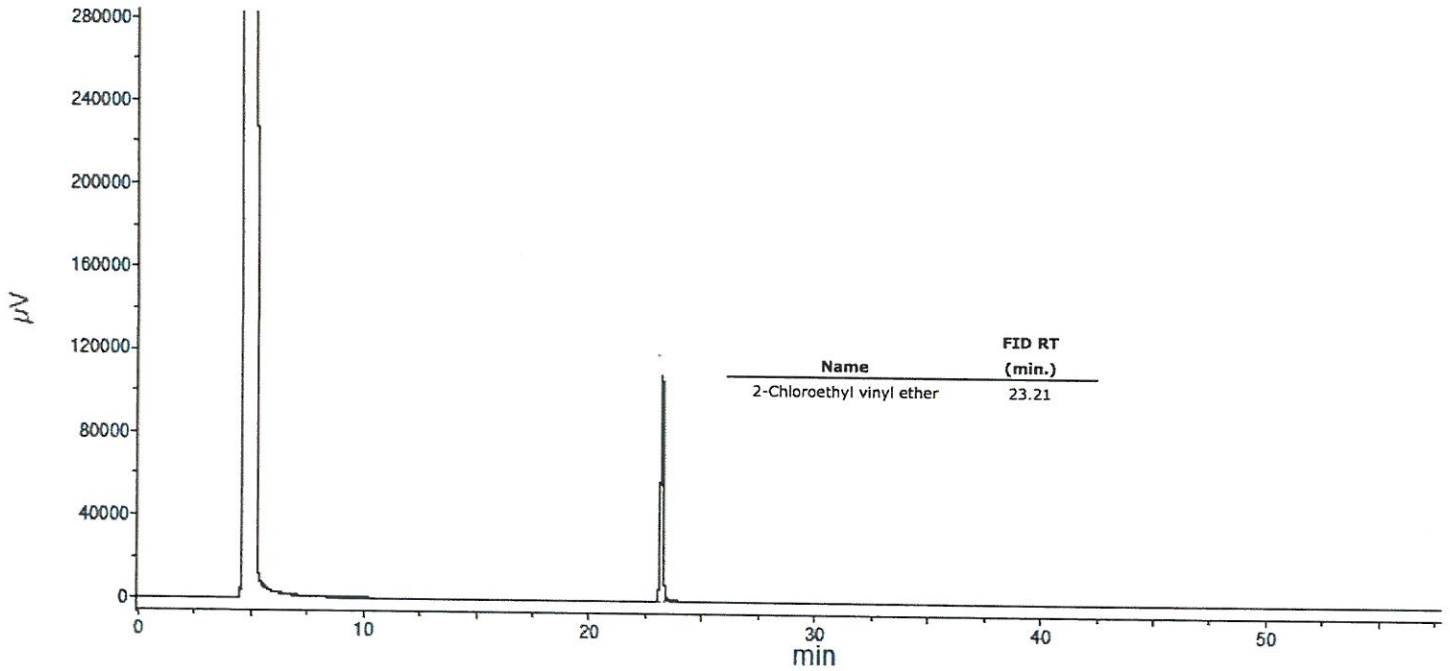
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 102, "P95318 L063020 [10mg/mL in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Tue, Jun 30, 2020 at 8:24:18 PM.
Sampled: Sequence "062320-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments

GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0μm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35˚C (Time 1=10 min.), Temp 2=200˚C (Time 2=8.75 min.),
Rate = 4˚C/min., Total run time=60 min. Injector temp.=200˚C, FID Temp.=200˚C.
FID Signal = Edaq Channel 1
Standard injection = 0.5μL, Range=6



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 082620
Description: 2-Chloroethyl vinyl ether

Expiration Date: 082623
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 23060

Weight(s) shown below were combined and diluted to (mL): 30.0

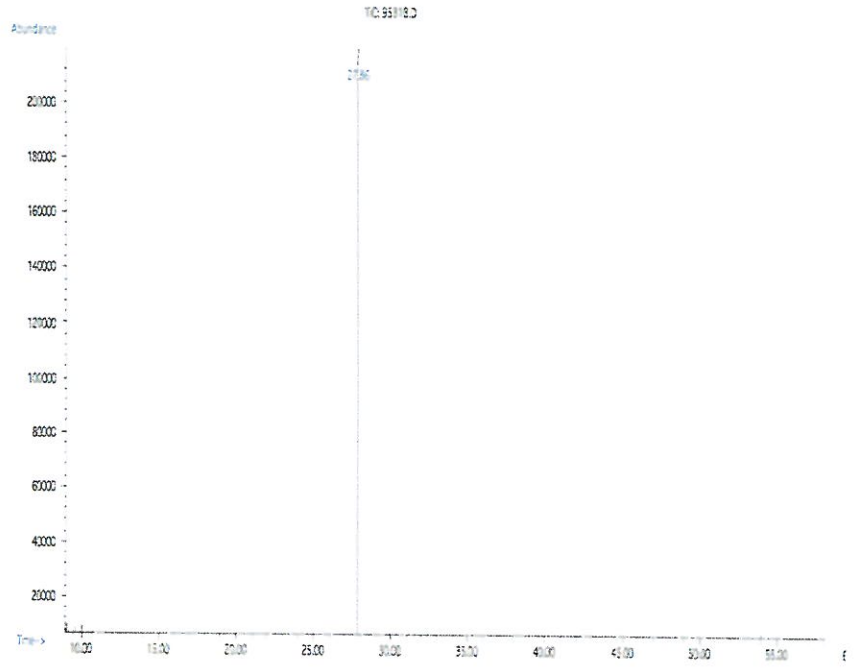
Solvent(s): **Lot#**
Methanol DX932-US

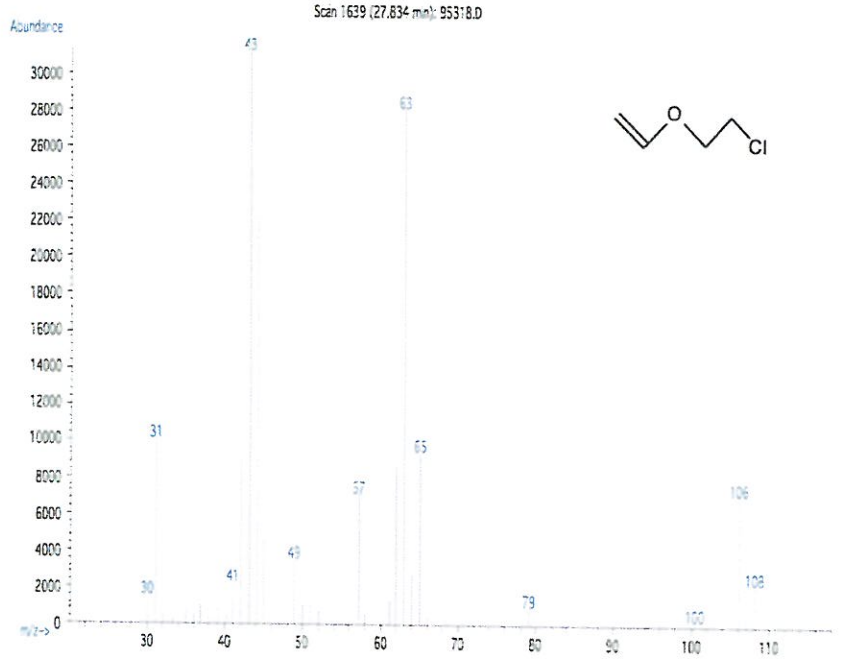
5E-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Benson Chan	082620 DATE
Reviewed By:	Pedro L. Rentas	082620 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30284	0.30289	10001.7	40.6	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** May 1, 2015

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0159420

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot MKCK2598)	5,006.4 µg/mL	+/- 29.1076 µg/mL +/- 302.0583 µg/mL +/- 302.7754 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBK9603)	5,001.8 µg/mL	+/- 29.0809 µg/mL +/- 301.7808 µg/mL +/- 302.4972 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBK5017)	5,001.5 µg/mL	+/- 29.0792 µg/mL +/- 301.7627 µg/mL +/- 302.4791 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCL1599)	5,001.6 µg/mL	+/- 29.0797 µg/mL +/- 301.7687 µg/mL +/- 302.4851 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

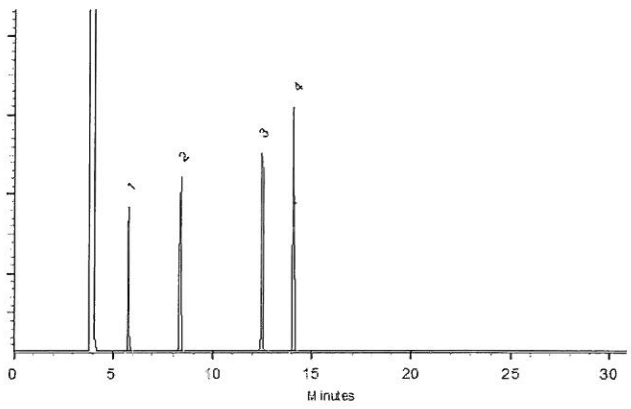
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 30-Mar-2020 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 01-Apr-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 10/15/20
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30006 / VOA Calibration Mix #1**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	15
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Acute Toxicity - Inhalation Dust / Mist Category 3 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Specific treatment see section 4. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure. (No information to prove exclusion of certain routes of exposure)

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	88.2
water	7732-18-5	231-791-2	9.8
Acetone	67-64-1	200-662-2	0.5
4-Methyl-2-pentanone (MIBK)	108-10-1	203-550-1	0.5
2-Butanone (MEK)	78-93-3	201-159-0	0.5
2-hexanone	591-78-6	209-731-1	0.5

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately Remove to fresh air.

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS. No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: None Known, Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
water	7732-18-5	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. No respiratory protection required under normal conditions of use.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	100 °C Boiling Point 64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	89.7
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	None Known
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide None Known

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Contains a probable or known human carcinogen.
Reproductive and Developmental Toxicity:	Contains a known human reproductive and/or developmental hazard.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Water	7732-18-5	Oral LD50 Rat >90 mL/kg
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations. Dispose of by waste water treatment following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Acetone)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Acetone)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
water	7732-18-5	-	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methyl isobutyl ketone	108-10-1	Prop 65 Cancer
Methyl isobutyl ketone	108-10-1	Prop 65 Devolop Tox
Methyl n-butyl ketone	591-78-6	Prop 65 Devolop Tox
Methanol	67-56-1	Prop 65 Devolop Tox
Methyl n-butyl ketone	591-78-6	Prop 65 Rep Male

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
water	7732-18-5	-	-	-	-
Acetone	67-64-1	X	X	X	X
4-Methyl-2-pentanone	108-10-1	X	X	X	X

(MIBK)					
2-Butanone (MEK)	78-93-3	X	X	X	X
2-hexanone	591-78-6	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 06/12/19

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0162296

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,000.7 µg/mL	+/- 13.7732 +/- 112.4211 +/- 115.0404	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,000.9 µg/mL	+/- 13.8200 +/- 112.4340 +/- 115.0534	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,000.9 µg/mL	+/- 13.6444 +/- 112.4154 +/- 115.0353	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,000.7 µg/mL	+/- 13.6676 +/- 112.4054 +/- 115.0250	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,001.7 µg/mL	+/- 13.2447 +/- 112.4091 +/- 115.0311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 (Lot MKCJ8658) **Purity** 99%	1,999.9 µg/mL	+/- 13.4984 +/- 112.3440 +/- 114.9631	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

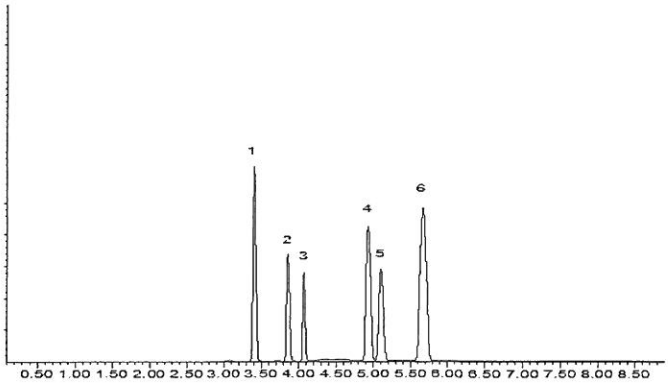
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 06-Jul-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 13-Jul-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0162411

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	(Lot SHBK5436)	2,013.0 µg/mL	+/- 11.7308 µg/mL +/- 121.4558 µg/mL +/- 121.7442 µg/mL		Gravimetric Unstressed Stressed
2	Vinyl acetate **CAS #** 108-05-4 **Purity** 99%	(Lot RD200601)	2,007.5 µg/mL	+/- 11.6987 µg/mL +/- 121.1240 µg/mL +/- 121.4115 µg/mL		Gravimetric Unstressed Stressed
3	Ethyl acetate **CAS #** 141-78-6 **Purity** 99%	(Lot SHBL3655)	2,007.3 µg/mL	+/- 11.6973 µg/mL +/- 121.1089 µg/mL +/- 121.3964 µg/mL		Gravimetric Unstressed Stressed
4	Isopropyl acetate **CAS #** 108-21-4 **Purity** 99%	(Lot BCBT9845)	2,007.0 µg/mL	+/- 11.6958 µg/mL +/- 121.0938 µg/mL +/- 121.3813 µg/mL		Gravimetric Unstressed Stressed
5	Propyl acetate **CAS #** 109-60-4 **Purity** 99%	(Lot FGL01)	2,004.0 µg/mL	+/- 11.6784 µg/mL +/- 120.9128 µg/mL +/- 121.1999 µg/mL		Gravimetric Unstressed Stressed
6	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBK5137)	2,007.5 µg/mL	+/- 11.6987 µg/mL +/- 121.1240 µg/mL +/- 121.4115 µg/mL		Gravimetric Unstressed Stressed
7	Amyl acetate **CAS #** 628-63-7 **Purity** 99%	(Lot 41325/1)	2,013.8 µg/mL	+/- 11.7352 µg/mL +/- 121.5011 µg/mL +/- 121.7895 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

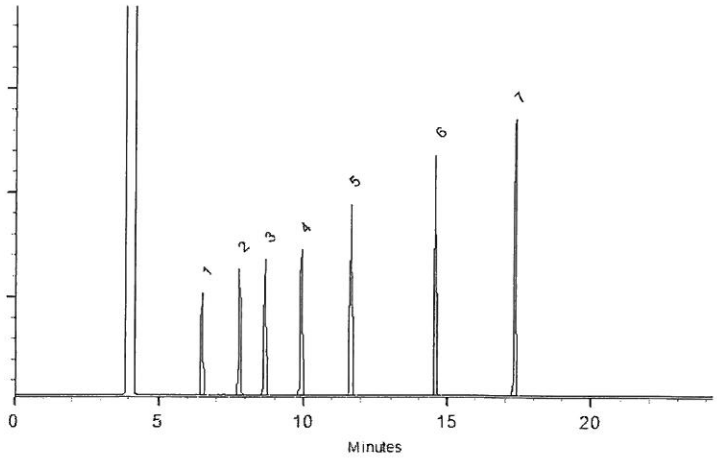
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 09-Jul-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 13-Jul-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK

Safety Data Sheet

Revision Date: 12/04/20
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30489 / 8260B Acetates Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	15
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Carcinogenicity Category 2 Acute Toxicity - Inhalation Dust / Mist Category 3 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Suspected of causing cancer. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Specific treatment see section 4. Rinse mouth.

Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	98.6
Propyl acetate	109-60-4	203-686-1	0.2
Isopropyl acetate	108-21-4	203-561-1	0.2
Vinyl acetate	108-05-4	203-545-4	0.2
Butyl acetate	123-86-4	204-658-1	0.2
Methyl acetate	79-20-9	201-185-2	0.2
Ethyl acetate	141-78-6	205-500-4	0.2
Amyl acetate	628-63-7	211-047-3	0.2

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment Wash thoroughly after handling Avoid contact with material. Remove contaminated clothing and wash before reuse "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition Keep away from heat, sparks, and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
Vinyl acetate	108-05-4	Not established	15 ppm STEL; 53 mg/m3 STEL	10 ppm TWA; 35 mg/m3 TWA	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	72.8 °C (HSDB) 64.7 °C at 760 mmHg (HSDB)

Melting Point (°C):	-98 °C
Flash Point (°F):	18
Flammability:	Highly Flammable Extremely Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	0
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.8
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.Contamination
Materials to Avoid / Chemical Incompatiability:	Acids Oxidizing materials Peroxides Strong alkalies
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Vinyl acetate Acetic acid, vinyl ester	108-05-4	Inhalation LC50 Rat : 11400 mg/m3/4H; Inhalation LC50 Mouse : 1550 ppm/4H; Oral LD50 Rat : 2920 mg/kg; Oral LD50 Mouse : 1613 mg/kg; Dermal LD50 Rabbit : 2335 mg/kg

Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	Present

ACGIH:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.
Monograph 63; 1995	108-05-4	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
Vinyl acetate	108-05-4	X	X	X	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
Propyl acetate	109-60-4	X	X	X	X
Isopropyl acetate	108-21-4	X	X	X	X
Vinyl acetate	108-05-4	X	X	X	X
Butyl acetate	123-86-4	X	X	X	X
Methyl acetate	79-20-9	X	X	X	X
Ethyl acetate	141-78-6	X	X	X	X
Amyl acetate	628-63-7	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 05/14/19

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

RESTEK®
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0164167

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	(Lot SHBK5436)	2,009.6 µg/mL	+/- 11.7935 µg/mL +/- 121.2587 µg/mL +/- 121.5465 µg/mL	Gravimetric Unstressed Stressed
2	Vinyl acetate **CAS #** 108-05-4 **Purity** 99%	(Lot RD200601)	2,009.2 µg/mL	+/- 11.7911 µg/mL +/- 121.2345 µg/mL +/- 121.5223 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl acetate **CAS #** 141-78-6 **Purity** 99%	(Lot SHBL1336)	2,014.8 µg/mL	+/- 11.8240 µg/mL +/- 121.5724 µg/mL +/- 121.8610 µg/mL	Gravimetric Unstressed Stressed
4	Isopropyl acetate **CAS #** 108-21-4 **Purity** 99%	(Lot BCBT9845)	2,008.4 µg/mL	+/- 11.7864 µg/mL +/- 121.1863 µg/mL +/- 121.4739 µg/mL	Gravimetric Unstressed Stressed
5	Propyl acetate **CAS #** 109-60-4 **Purity** 99%	(Lot ZJZVG)	2,012.8 µg/mL	+/- 11.8122 µg/mL +/- 121.4518 µg/mL +/- 121.7401 µg/mL	Gravimetric Unstressed Stressed
6	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBL4448)	2,016.4 µg/mL	+/- 11.8334 µg/mL +/- 121.6690 µg/mL +/- 121.9578 µg/mL	Gravimetric Unstressed Stressed
7	Amyl acetate **CAS #** 628-63-7 **Purity** 99%	(Lot 41325/1)	2,003.2 µg/mL	+/- 11.7559 µg/mL +/- 120.8725 µg/mL +/- 121.1594 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

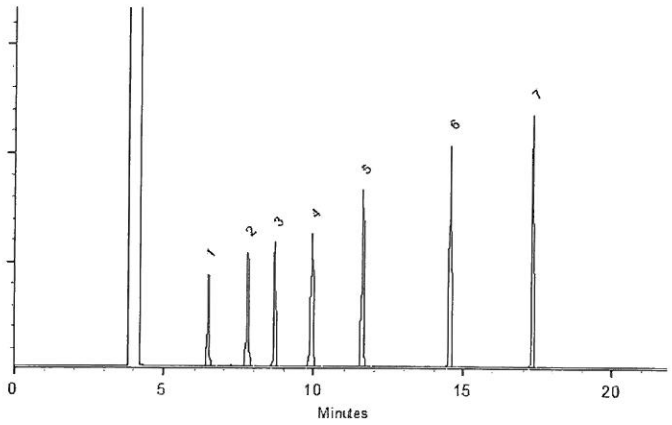
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 03-Sep-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 08-Sep-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0164763

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2023 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot SHBL7812) **Purity** 99%	5,002.8 µg/mL	+/- 29.0869 µg/mL +/- 301.8431 µg/mL +/- 302.5597 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBL6194) **Purity** 99%	5,015.7 µg/mL	+/- 29.1615 µg/mL +/- 302.6174 µg/mL +/- 303.3359 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBL5515) **Purity** 99%	5,008.7 µg/mL	+/- 29.1208 µg/mL +/- 302.1951 µg/mL +/- 302.9125 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCL1599) **Purity** 99%	5,004.2 µg/mL	+/- 29.0947 µg/mL +/- 301.9236 µg/mL +/- 302.6404 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

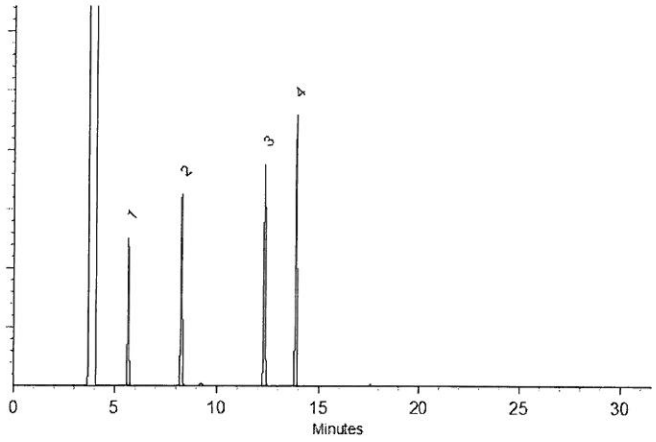
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jeremy Johnson - Mfg. Supervisor

Date Mixed: 25-Sep-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 30-Sep-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate of Composition

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0168063

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2022 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 (Lot RD200601) **Purity** 99%	8,072.0 µg/mL	+/- 47.3710 µg/mL +/- 487.0621 µg/mL +/- 488.2183 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

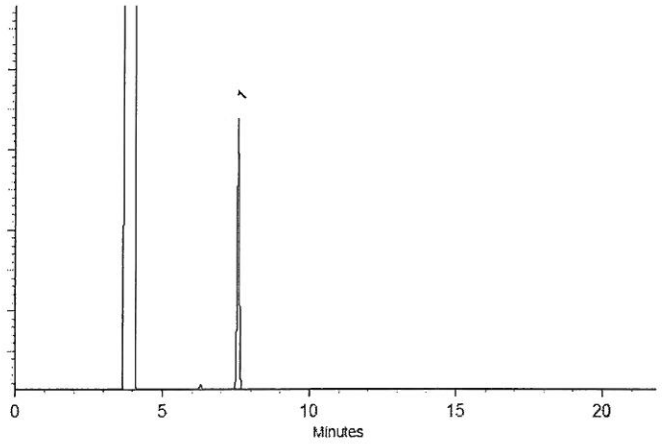
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 12-Jan-2021 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 14-Jan-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0170110

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Bromochloromethane	2,020.0 µg/mL	+/- 18.7849 µg/mL	Gravimetric
	CAS # 74-97-5 (Lot 00008541)		+/- 114.2043 µg/mL	Unstressed
	Purity 99%		+/- 116.8330 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

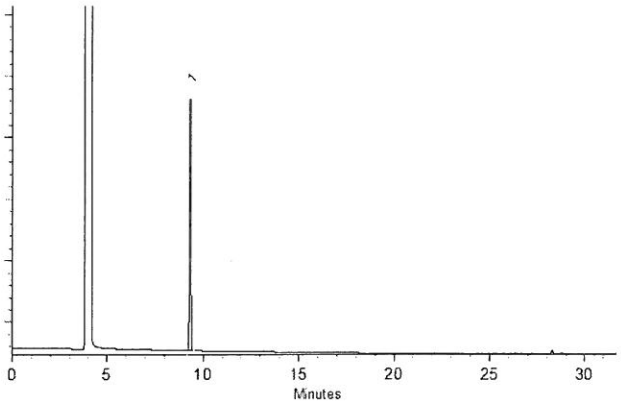
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Erik Strommer - Operations Tech I

Date Mixed: 12-Mar-2021 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 15-Mar-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

CERTIFIED WEIGHT REPORT

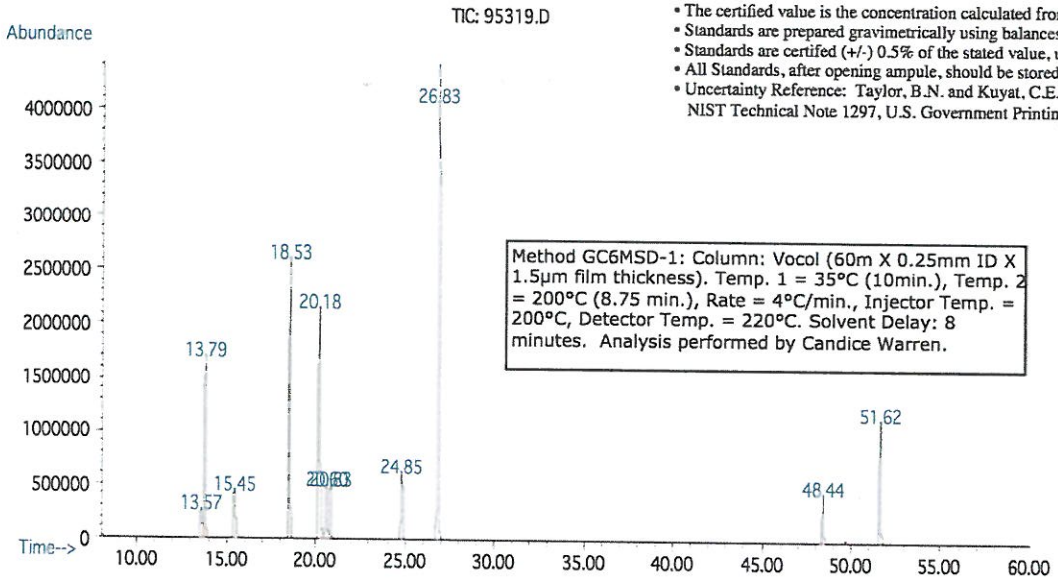
Part Number: 95319
Lot Number: 031921
Description: Revised Additions Mix
11 components
Expiration Date: 031924
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** DY186-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	031921 DATE
Reviewed By:	Pedro L. Rentas	031921 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01040	10002.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20033	2003.0	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	SHBD2795V	2000	99.5	0.2	0.20101	0.20130	2002.8	8.1	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20220	2001.7	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04110	40005.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20230	2002.7	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20235	2003.2	8.2	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20080	2003.9	8.1	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02080	20005.0	81.0	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	113886	10000	99.9	0.2	1.00105	1.00140	10003.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 2500mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21536	2002.8	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

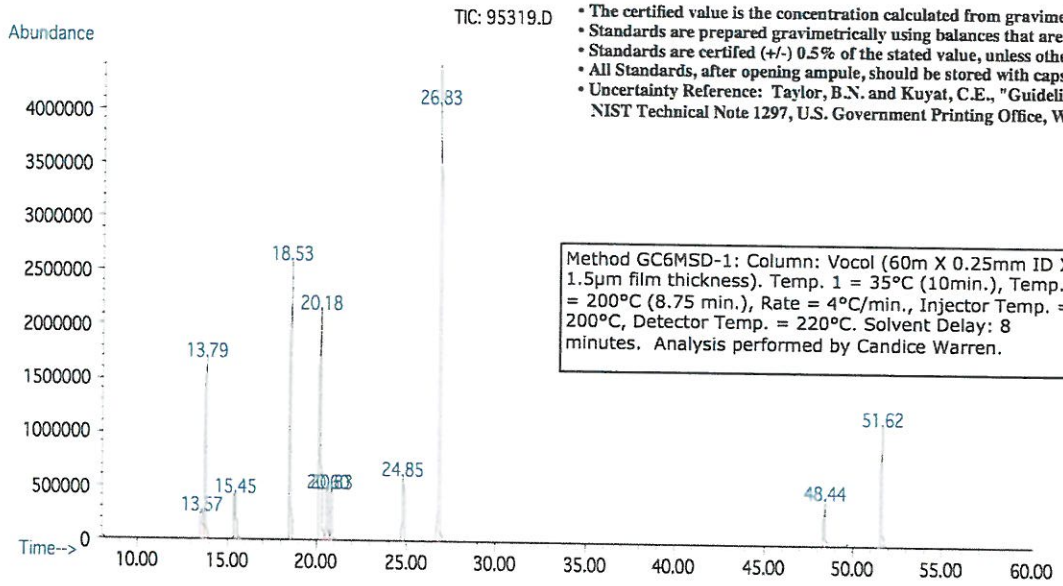
Part Number: 95319
Lot Number: 050119
Description: Revised Additions Mix
11 components
Expiration Date: 050122
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Methanol DU230-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

	050119	
Formulated By:	Justin Dippold	DATE
	050119	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01021	1.01045	10002.4	40.4	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	15538EZ	2000	99.5	0.2	0.20103	0.20124	2002.1	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	SHBD2795V	2000	99.5	0.2	0.20103	0.20118	2001.5	8.1	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20204	0.20222	2001.8	8.1	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04085	4.04123	40003.8	161.6	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20204	0.20223	2001.9	8.1	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20204	0.20219	2001.5	8.1	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20042	0.20059	2001.7	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02042	2.02067	20002.4	80.8	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	113886	10000	99.9	0.2	1.00111	1.00139	10002.8	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 2500mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21508	0.21530	2002.1	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

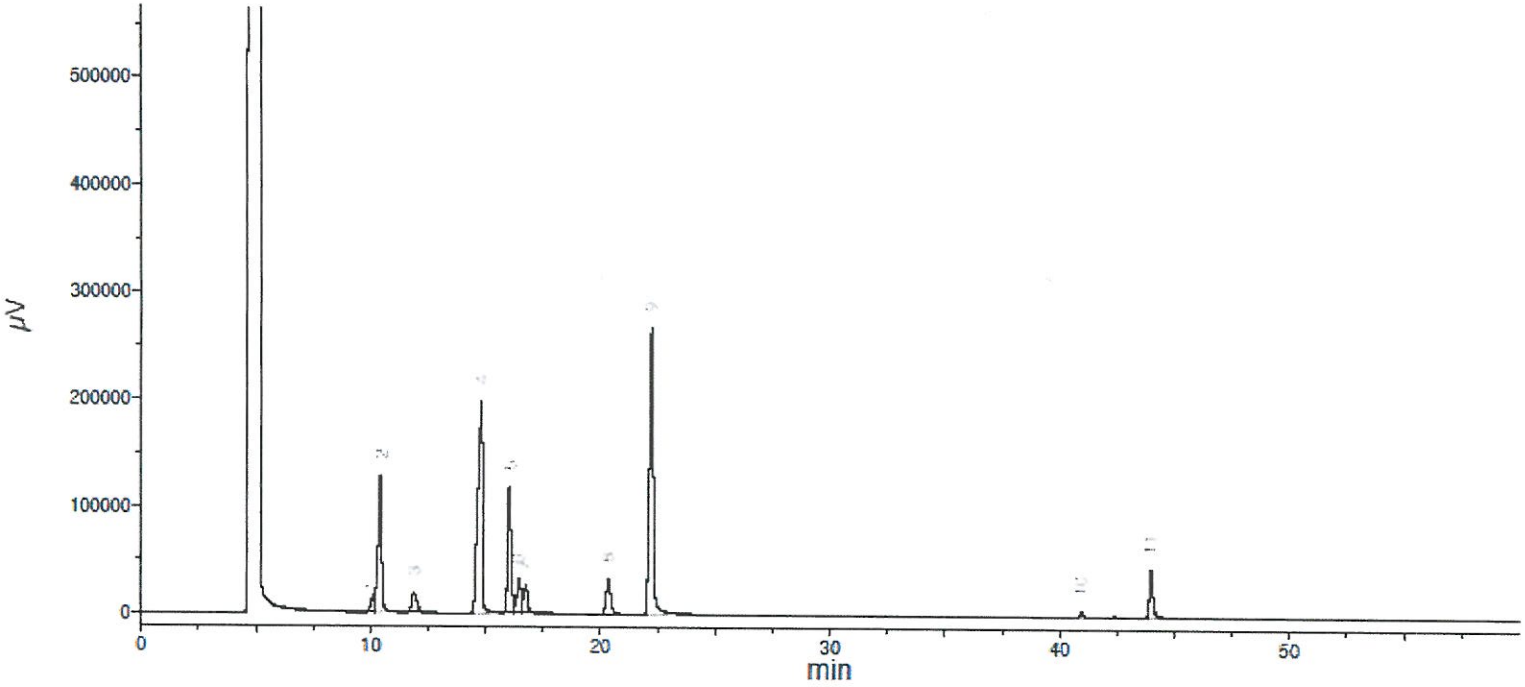
Run 5, "P95319 L050119 [Varied in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Fri, May 3, 2019 at 10:19:18 PM.
Sampled: Sequence "050319-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Name	FID RT (min.)
Methyl tert-butyl ether (MTBE)	9.97
Acrylonitrile	10.40
Di-isopropyl ether	11.87
Propionitrile	14.80
Tetrahydrofuran	16.02
Cyclohexane	16.45
1-Chlorobutane	16.73
Methylcyclohexane	20.34
1,4-Dioxane	22.22
Hexachloroethane	40.96
1,2,3,4-Tetramethylbenzene	43.97

Comments

GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35˚C (Time 1=10 min.), Temp 2=200˚C (Time 2=8.75 min.),
Rate = 4˚C/min., Total run time=60 min. Injector temp.=200˚C, FID Temp.=200˚C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=6



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0147670

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,511.0 µg/mL	+/- 14.7360 µg/mL +/- 140.8035 µg/mL +/- 144.0975 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

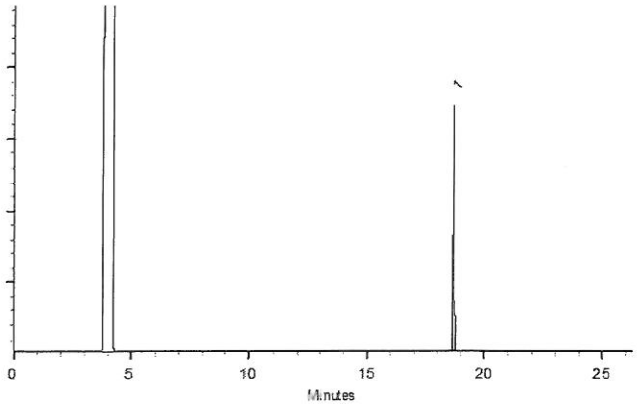
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 01-Apr-2019 **Balance:** 1127510105

Justine Albertson

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0153385

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Component #	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	(Lot PR-18488)	25,060.0 µg/mL	+/- 231.9100 +/- 1,416.6261 +/- 1,449.2417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,4-Difluorobenzene **CAS #** 540-36-3 **Purity** 99%	(Lot MKBN8571V)	25,092.0 µg/mL	+/- 232.2061 +/- 1,418.4350 +/- 1,451.0923	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99%	(Lot PR-29571/02028CZ1)	25,056.0 µg/mL	+/- 231.8729 +/- 1,416.4000 +/- 1,449.0104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Pentafluorobenzene **CAS #** 363-72-4 **Purity** 99%	(Lot MKCH1850)	25,072.0 µg/mL	+/- 232.0210 +/- 1,417.3044 +/- 1,449.9357	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Joseph Jaglowski - Mix Technician

Date Mixed: 27-Sep-2019 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 12/15/16
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**555581 / Custom 8260 Internal Standard Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	7
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed or in contact with skin. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see section 4. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	90.000000
1,4-difluorobenzene	540-36-3	208-742-9	2.500000
pentafluorobenzene	363-72-4	206-658-7	2.500000
1,4-dichlorobenzene-d4	3855-82-1		2.500000
chlorobenzene-d5	3114-55-4	221-482-0	2.500000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1,4-difluorobenzene	540-36-3	ND		No TLV	No data available.
pentafluorobenzene	363-72-4	ND		No TLV	No data available.
1,4-dichlorobenzene-d4	3855-82-1	ND		No TLV	No data available.
chlorobenzene-d5	3114-55-4	ND		No TLV	No data available.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available.
Odor:	Mild
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	1.1 (air = 1)
Boiling Point:	No data available.
Melting Point:	-98 °C
Flash Point:	36
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature:	464 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available.
Odor Threshold:	No data available.
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data.

Reproductive and Developmental Toxicity: Contains a known human reproductive and/or developmental hazard.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage

Ingestion: Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h
Benzene, 1,2,3,4,5-pentafluoro-	363-72-4	Oral LD50 Rat 2 g/kg

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available.	

ACGIH:

Chemical Name	CAS No.
No data available.	

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1

No data. Group 2A
No data. Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	X
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	-
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date:	03/03/16
Other Information:	Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References:	No data available.
Disclaimer:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0155519

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Bromochloromethane	2,012.9 µg/mL	+/- 11.9561	µg/mL	Gravimetric
	CAS # 74-97-5 (Lot 00008541)		+/- 112.8889	µg/mL	Unstressed
	Purity 98%		+/- 115.5292	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

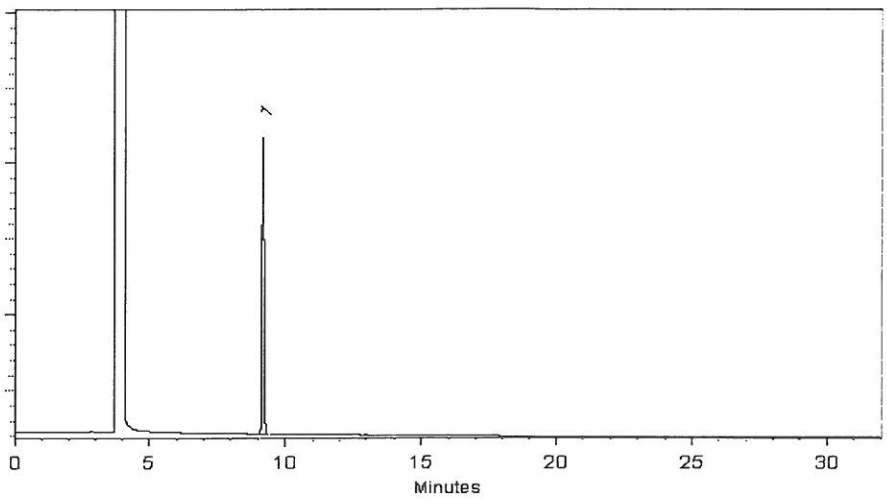
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 04-Dec-2019 **Balance:** 1128342314

Tyler Brown - Operations Tech-ARM QC

Date Passed: 05-Dec-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 08/22/19
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30225 / Bromochloromethane Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	13
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Hazardous for the ozone layer
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Causes damage to organs.
Harms public health and the environment by destroying ozone in the upper atmosphere.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS. Refer to manufacturer/supplier for information on recovery/recycling.
Single Exposure Target Organs:	Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)
Repeated Exposure Target Organs:	No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.8
bromochloromethane	74-97-5	200-826-3	0.2

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.8
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3(6.1)
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
bromochloromethane	74-97-5	X	X	X	X

16. OTHER INFORMATION

Prior Version Date:	11/08/18
Other Information:	Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References:	No data available
Disclaimer:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #2222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0158153

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	25,224.0 µg/mL	+/- 233.4276 µg/mL +/- 1,425.8969 µg/mL +/- 1,458.7260 µg/mL	Gravimetric Unstressed Stressed
2	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	25,128.0 µg/mL	+/- 232.5392 µg/mL +/- 1,420.4701 µg/mL +/- 1,453.1742 µg/mL	Gravimetric Unstressed Stressed
3	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012016) **Purity** 99%	25,200.0 µg/mL	+/- 233.2055 µg/mL +/- 1,424.5402 µg/mL +/- 1,457.3380 µg/mL	Gravimetric Unstressed Stressed
4	Toluene-d8 **CAS #** 2037-26-5 (Lot I-21928) **Purity** 99%	25,184.0 µg/mL	+/- 233.0575 µg/mL +/- 1,423.6357 µg/mL +/- 1,456.4127 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tom Suckal - Mix Technician

Date Mixed: 25-Feb-2020 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 07/20/18
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555582 / Custom 8260A/B Surrogate Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	6
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Hazardous for the ozone layer
Flammable Liquid Category 2
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed or in contact with skin.
Causes damage to organs.
Harms public health and the environment by destroying ozone in the upper atmosphere.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS. Refer to manufacturer/supplier for information on recovery/recycling.
Single Exposure Target Organs:	Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)
Repeated Exposure Target Organs:	No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	90
1,2-dichloroethane-d4	17060-07-0		2.5
dibromofluoromethane	1868-53-7		2.5
toluene-d8	2037-26-5	218-009-5	2.5
1-bromo-4-fluorobenzene	460-00-4	207-300-2	2.5

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
Fire and/or Explosion Hazards:	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the

	area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1,2-dichloroethane-d4	17060-07-0	Not established	None Known	Not established	No data available
dibromofluoromethane	1868-53-7	Not established	None Known	Not established	No data available
toluene-d8	2037-26-5	Not established	None Known	Not established	No data available
1-bromo-4-fluorobenzene	460-00-4	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	151.5 °C Boiling Point (at 1013.25 hPa) 64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	50
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available

Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	0
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Benzene, 1-bromo-4-fluoro-	460-00-4	Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 2700 mg/kg
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.

No data available

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-
1-bromo-4-fluorobenzene	460-00-4	-	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California

methanol	67-56-1	X	X	X	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-
1-bromo-4-fluorobenzene	460-00-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 03/03/16

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

Absolute Standards, Inc.
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Analytical Reference Material ARM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 072618
Description: Bromochloromethane

Solvent(s): Methanol **Lot#** DS526

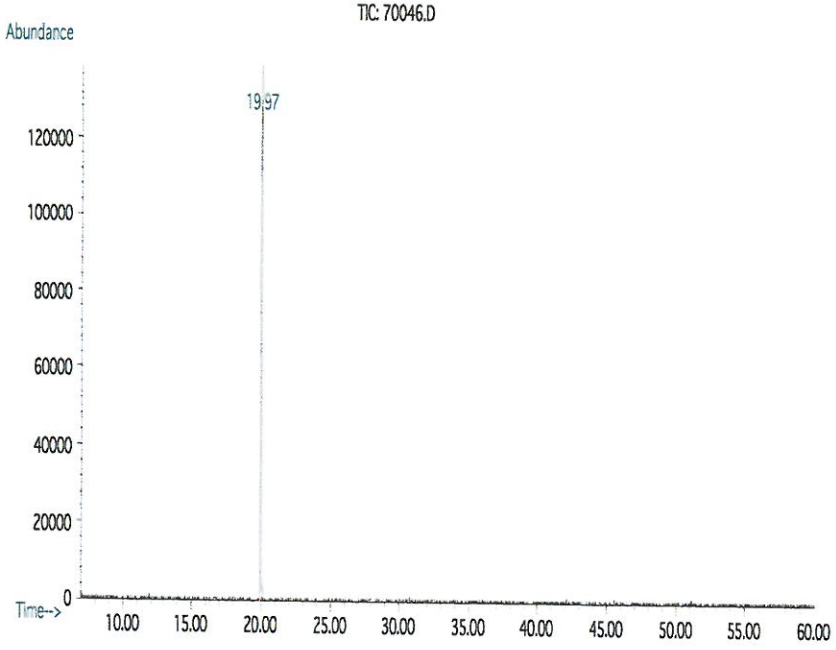
Expiration Date: 072623
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 822-275872-11

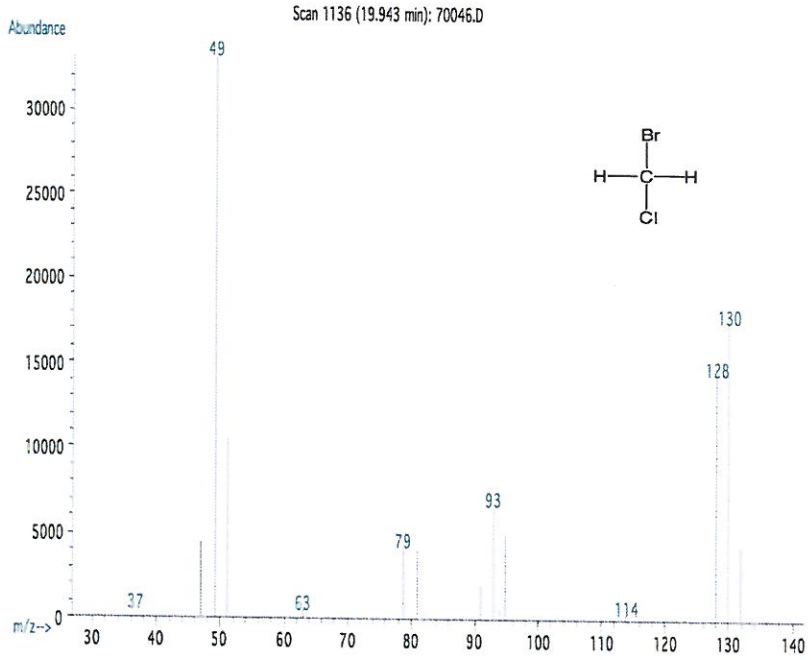
Weight(s) shown below were combined and diluted to (mL): 25.0 | 5E-05 Balance Uncertainty | 0.002 Flask Uncertainty

Eli Aliaga	072618
Formulated By: Eli Aliaga	DATE
Pedro Rentas	072618
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02526	0.02540	1005.7	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0158421

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBL0592) **Purity** 99%	49,864.0 µg/mL	+/- 291.9647 µg/mL +/- 1,068.1530 µg/mL +/- 1,099.1740 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

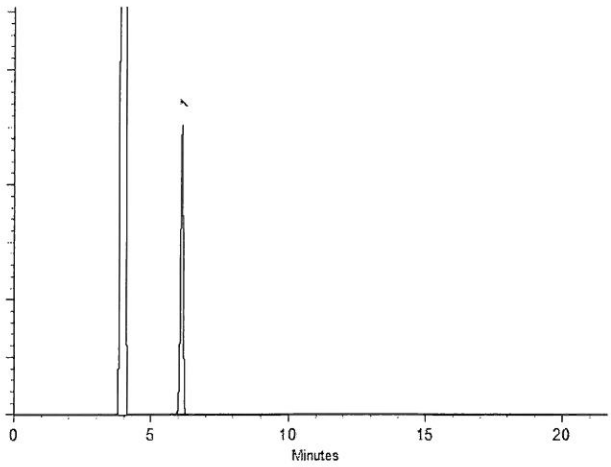
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble - Operations Technician I

Date Mixed: 03-Mar-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0160703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,148.0 µg/mL	+/- 293.6276 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBL5806)		+/- 1,074.2366 µg/mL	Unstressed
	Purity 99%		+/- 1,105.4344 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

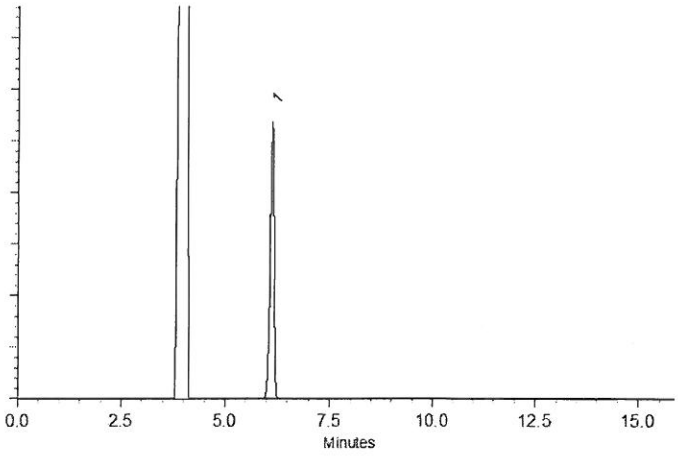
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 11-May-2020 **Balance:** 1128360905

Justine Albertson - Operations Tech-ARM QC

Date Passed: 13-May-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SHIPPING DOCUMENTS

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CHAIN OF CUSTODY RECORD

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www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. M3859
COC Number 2028263

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Day Environmental, Inc.
ADDRESS: 1563 Lyell Avenue
CITY Rochester STATE: NY ZIP: 14606
ATTENTION: Jeff Danzinger
PHONE: 585-454-0210 FAX: 585-454-0825

CLIENT PROJECT INFORMATION

PROJECT NAME: Andrews St. Site
PROJECT NO.: 53345-17 LOCATION: Rochester, NY
PROJECT MANAGER: Jeff Danzinger
e-mail: jdanzinger@daymail.net
PHONE: 585-454-0210 FAX: 585-454-0825

CLIENT BILLING INFORMATION

BILL TO: Day Environmental, Inc. PO#: 53345-17
ADDRESS: 1563 Lyell Avenue
CITY Rochester STATE: NY ZIP: 14606
ATTENTION: Jeff Danzinger PHONE: 585-454-0210

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: 15 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☒ Level 4 (QC + Full Raw Data)
- ☐ Level 2 (Results + QC)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other
- ☒ EDD FORMAT NYSDEC EQuIS EXCEL

ANALYSIS

TCL VOCs + TICs 8260

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1.	1027 - MW-01	GW		X	9/20/21	925	2	X									
2.	1028 - MW-02	GW		X		935	6	X									Also do MS/MSD
3.	1029 - MW-03A	GW		X		940	2	X									
4.	1030 - MW-11	GW		X		958	2	X									
5.	1031 - MW-17A	GW		X		945	2	X									
6.	1032 - FB092021	AQ		X		1005	2	X									
7.	1033 - TB092021	AQ		X		-	2	X									
8.																	
9.																	
10.																	

PRESERVATIVES

COMMENTS ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

9-20-2021

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	9-20-21 1232	1. FED-EX
2. FedEx	9-21-21 2:00	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.7°C °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255421
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-21-14

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M3859 DAYE01
Client Name : Day Environmental, Inc.
Client Contact : Jeff Danzinger
Invoice Name : Day Environmental, Inc.
Invoice Contact : Jeff Danzinger

Order Date : 9/21/2021 2:02:00 PM
Project Name : Andrew St. RI
Receive DateTime : 9/21/2021 2:00:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : Equis_EQNYDEC/Excel
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M3859-01	1027-MW-01	Water	09/20/2021	09:25					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-02	1028-MW-02	Water	09/20/2021	09:35					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-03	1029-MW-03A	Water	09/20/2021	09:40					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-04	1030-MW-11	Water	09/20/2021	09:58					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-05	1031-MW-17A	Water	09/20/2021	09:45					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-06	1032-FB092021	Water	09/20/2021	10:05					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-07	1033-TB092021	Water	09/20/2021	00:00					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-08	M3859-02MS	Water	09/20/2021	09:35					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
M3859-09	M3859-02MSD	Water	09/20/2021	09:35					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M3859 DAYE01
Client Name : Day Environmental, Inc.
Client Contact : Jeff Danzinger
Invoice Name : Day Environmental, Inc.
Invoice Contact : Jeff Danzinger

Order Date : 9/21/2021 2:02:00 PM
Project Name : Andrew St. RI
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Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : Equis_EQNYDEC/Excel
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low	5 Bus. Days	

Relinguished By : _____
Date / Time : 9/21/21 1415

Received By : _____
Date / Time : 9.21.21 14:15

Storage Area : VOA Refridgerator Room

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Andrew St.
Chemtech SDG#L5236
March 1, 2021
Sampling date: 12/28/2020

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, project located at Andrew St., Chemtech, SDG#L5236 submitted to Vali-Data of WNY, LLC on February 1, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA method Volatile Organics (8260C).

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Compound Quantitation and MS/MSD.

Sample: 1015-MW-01(23) and 1017-MW-03A(17) were diluted due to high target analyte concentration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
The data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All criteria were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except the %Rec of Tetrachloroethene was outside QC limits, high in 1016-MW-02(23.8)MS/MSD and should be qualified as estimated. This target analyte should be qualified as estimated high in 1016-MW-02(23.8), if detected.

COMPOUND QUANTITATION
All criteria were met except Acetone was detected above the reporting limit in 1025-FB122820. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as undetected in associated samples in which it was detected above the reporting limit but below the blank concentration. This target analyte should be qualified as estimated high in associated samples in which it was detected above the blank concentration.
One TIC was detected in 1025-FB122820. This TIC was not detected in associated samples, so no further action is required.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on some of the target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Andrew St.
Chemtech SDG#M3859
November 16, 2021
Sampling date: 9/20/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, project located at Andrew St., Chemtech, SDG#M3859 submitted to Vali-Data of WNY, LLC on October 6, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA method Volatile Organics (8260C).

ID	Sample ID	Laboratory ID
1	1027-MW-01	M3859-01
2	1028-MW-02	M3859-02
3	1029-MW-03A	M3859-03
4	1030-MW-11	M3859-04
5	1031-MW-17A	M3859-05
6	1032-FB092021	M3859-06
7	1033-TB092021	M3859-07
8	1028-MW-02MS	M3859-08
9	1028-MW-02MSD	M3859-09

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Laboratory Control Samples, Compound Quantitation, MS/MSD, Initial Calibration and Continuing Calibration.

Samples: 1027-MW-01, 1029-MW-03A and 1030-MW-11 were diluted due to high target analyte concentration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
The data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All criteria were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Bromomethane was outside QC limits, low in VU0927WBS01 and should be qualified as estimated. This target analyte should be qualified as estimated in the associated samples.

LCS ID	Target Analyte	%Rec	Qualifier	Associated Sample
VU0927WBS01	Bromomethane	52	UJ	4dl

MS/MSD
All criteria were met except some target analytes were outside QC limits in 1028-MW-02MS/MSD and should be qualified as estimated. These target analytes should be qualified in 1028-MW-02. Tetrachloroethene was outside calibration range in 1028-MW-02MS/MSD and

should be qualified as estimated.

Target Analyte	%Rec MS	%Rec MSD	RPD	Qualifier	Associated Sample
Trichloroethene	127	-	17	JH	2
Tetrachloroethene	145	125	-	JH	2
Bromomethane	-	-	38	UJ	2

COMPOUND QUANTITATION

All criteria were met except Acetone was detected above the reporting limit in 1032-FB092021. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as undetected in associated samples in which it was detected above the reporting limit but below the blank concentration. This target analyte should be qualified as estimated high in associated samples in which it was detected above the blank concentration.
Several target analytes were detected in 1033-TB092021 and/or 1032-FB092021 above the MDL, below the reporting limit and are qualified as estimated. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit.

ID	Target Analyte	Concentration(ug/l)	Qualifier	Associated Sample
6	Acetone	15.8	U	1-5
6	Acetone	15.8	U at RL	3dl,4dl
6	2-Butanone	2.1	U at RL	2,4
6	Toluene	.31	U	none
6	Tetrachloroethene	.36	JH	1-5,1dl,3dl,4dl
7	Acetone	1.8	none	See above

One TIC was detected in 1032-FB092021 above the qualifying limit. This TIC was not detected in associated samples, so no further action is required.

INITIAL CALIBRATION

All criteria were met except the %RSD of Chloroethane was outside QC limits in the initial calibration. This target analyte should be qualified as estimated in all samples, blanks and spikes.
Alternate forms of regression were used on some of the target analytes, with acceptable results.

CONTINUING CALIBRATION

All criteria were met some target analytes were outside QC limits in the continuing calibrations and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
VU44885.D	Acetone	48.98	UJ	VU0927WBL01
VU44885.D	Acetone	48.98	J	VU0927WBS01,4dl
VU44885.D	Bromochloromethane	-21.04	UJ	VU0927WBL01,4dl
VU44885.D	Bromochloromethane	-21.04	J	VU0927WBS01
VU44905.D	o-Xylene	23.07	UJ	VU0927WBL02,1dl,2,3dl,6
VU44905.D	o-Xylene	23.07	J	VU0927WBS02
VU44905.D	Styrene	24.52	UJ	VU0927WBL02,1dl,2,3dl,6
VU44905.D	Styrene	24.52	J	VU0927WBS02

GC/MS PERFORMANCE CHECK

All criteria were met.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Day Environmental, Inc.
Project Name: Andrew St. RI
Project # N/A
Chemtech Project # M3859
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/21/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {M3859-08MS} with File ID: VU044853.D recoveries met the requirements for all compounds except for Tetrachloroethene[145%] due to matrix interference.

The MSD {M3859-09MSD} with File ID: VU044854.D recoveries met the requirements for all compounds except for Tetrachloroethene[125%] due to matrix interference.

The RPD for {M3859-09MSD} with File ID: VU044854.D met criteria except for Bromomethane[38%] due to difference in results of MS and MSD.

The Blank Spike for {VU0927WBS01} with File ID: VU044889.D met requirements for all samples except for Bromomethane[52%] is failing low but only dilution sample associated with this BS therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 15% in the Initial calibration method (82U092421W.M) for Bromomethane, Chloroethane, Styrene these compounds are passing on Linear Regression.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

The Continuous Calibration File ID VU044885.D met the requirements except for Bromochloromethane which is failing marginally low while 1,2,4 Trichlorobenzene, Acetone and Methylcyclohexane are failing high but associate sample having hit of only acetone but below CRQL therefore no corrective action taken.

The Tuning criteria met requirements.

Samples 1027-MW-01, 1029-MW-03A and 1030-MW-11 were diluted due to high concentrations.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature__ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 2:07 pm, Oct 04, 2021

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : M3859-08MS		**Client Sample ID : 1028-MW-02MS**						**Datafile :**	VU044853.D		
Dichlorodifluoromethane	50	0	53.1	ug/L	106				73	120	
Chloromethane	50	0	41.4	ug/L	83				58	133	
Vinyl chloride	50	2.20	52.6	ug/L	101				69	125	
Bromomethane	50	0	30.3	ug/L	61				45	135	
Chloroethane	50	0	48.8	ug/L	98				77	119	
Trichlorofluoromethane	50	0	50.2	ug/L	100				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	49.4	ug/L	99				75	117	
1,1-Dichloroethene	50	0	48.9	ug/L	98				77	118	
Acetone	250	6.10	240	ug/L	94				57	139	
Carbon disulfide	50	0	46.6	ug/L	93				67	118	
Methyl tert-butyl Ether	50	0	52.2	ug/L	104				60	148	
Methyl Acetate	50	0	45.0	ug/L	90				60	133	
Methylene Chloride	50	0	47.3	ug/L	95				79	115	
trans-1,2-Dichloroethene	50	1.10	51.2	ug/L	100				60	133	
1,1-Dichloroethane	50	0	50.7	ug/L	101				78	122	
Cyclohexane	50	0	46.6	ug/L	93				71	119	
2-Butanone	250	1.50	250	ug/L	99				67	137	
Carbon Tetrachloride	50	0	48.4	ug/L	97				84	115	
cis-1,2-Dichloroethene	50	33.5	94.1	ug/L	121				56	145	
Bromochloromethane	50	0	49.5	ug/L	99				72	130	
Chloroform	50	0	49.1	ug/L	98				83	119	
1,1,1-Trichloroethane	50	0	50.1	ug/L	100				83	117	
Methylcyclohexane	50	0	49.6	ug/L	99				64	120	
Benzene	50	0	48.1	ug/L	96				83	115	
1,2-Dichloroethane	50	0	48.9	ug/L	98				76	120	
Trichloroethene	50	46.3	110	ug/L	127				45	149	
1,2-Dichloropropane	50	0	48.7	ug/L	97				85	116	
Bromodichloromethane	50	0	48.8	ug/L	98				86	117	
4-Methyl-2-Pentanone	250	0	260	ug/L	104				72	137	
Toluene	50	0	50.0	ug/L	100				85	115	
t-1,3-Dichloropropene	50	0	50.0	ug/L	100				78	117	
cis-1,3-Dichloropropene	50	0	49.2	ug/L	98				77	115	
1,1,2-Trichloroethane	50	0	49.1	ug/L	98				87	119	
2-Hexanone	250	0	260	ug/L	104				75	131	
Dibromochloromethane	50	0	49.3	ug/L	99				88	118	
1,2-Dibromoethane	50	0	49.6	ug/L	99				85	119	
Tetrachloroethene	50	87.7	160	ug/L	145	*			65	114	
Chlorobenzene	50	0	48.8	ug/L	98				62	141	
Ethyl Benzene	50	0	51.0	ug/L	102				62	134	
m/p-Xylenes	100	0	100	ug/L	100				83	117	
o-Xylene	50	0	52.3	ug/L	105				81	120	
Styrene	50	0	48.5	ug/L	97				53	143	
Bromoform	50	0	48.0	ug/L	96				83	121	
Isopropylbenzene	50	0	49.4	ug/L	99				76	121	
1,1,2,2-Tetrachloroethane	50	0	48.4	ug/L	97				66	145	
1,3-Dichlorobenzene	50	0	49.4	ug/L	99				84	110	
1,4-Dichlorobenzene	50	0	48.2	ug/L	96				81	111	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : M3859-09MSD	**Client Sample ID :** 1028-MW-02MSD							**Datafile :**	VU044854.D		
Dichlorodifluoromethane	50	0	49.5	ug/L	99		7		73	120	20
Chloromethane	50	0	40.6	ug/L	81		2		58	133	20
Vinyl chloride	50	2.20	49.8	ug/L	95		6		69	125	20
Bromomethane	50	0	44.5	ug/L	89		38	*	45	135	20
Chloroethane	50	0	45.8	ug/L	92		6		77	119	20
Trichlorofluoromethane	50	0	48.3	ug/L	97		4		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	47.6	ug/L	95		4		75	117	20
1,1-Dichloroethene	50	0	47.0	ug/L	94		4		77	118	20
Acetone	250	6.10	230	ug/L	90		4		57	139	20
Carbon disulfide	50	0	44.9	ug/L	90		4		67	118	20
Methyl tert-butyl Ether	50	0	50.7	ug/L	101		3		60	148	20
Methyl Acetate	50	0	42.3	ug/L	85		6		60	133	20
Methylene Chloride	50	0	44.5	ug/L	89		6		79	115	20
trans-1,2-Dichloroethene	50	1.10	49.3	ug/L	96		4		60	133	20
1,1-Dichloroethane	50	0	48.7	ug/L	97		4		78	122	20
Cyclohexane	50	0	44.8	ug/L	90		4		71	119	20
2-Butanone	250	1.50	240	ug/L	95		4		67	137	20
Carbon Tetrachloride	50	0	47.3	ug/L	95		2		84	115	20
cis-1,2-Dichloroethene	50	33.5	89.7	ug/L	112		8		56	145	20
Bromochloromethane	50	0	45.2	ug/L	90		9		72	130	20
Chloroform	50	0	47.4	ug/L	95		4		83	119	20
1,1,1-Trichloroethane	50	0	48.0	ug/L	96		4		83	117	20
Methylcyclohexane	50	0	48.7	ug/L	97		2		64	120	20
Benzene	50	0	46.9	ug/L	94		3		83	115	20
1,2-Dichloroethane	50	0	47.4	ug/L	95		3		76	120	20
Trichloroethene	50	46.3	100	ug/L	107		17		45	149	20
1,2-Dichloropropane	50	0	47.0	ug/L	94		4		85	116	20
Bromodichloromethane	50	0	47.6	ug/L	95		2		86	117	20
4-Methyl-2-Pentanone	250	0	230	ug/L	92		12		72	137	20
Toluene	50	0	48.0	ug/L	96		4		85	115	20
t-1,3-Dichloropropene	50	0	48.7	ug/L	97		3		78	117	20
cis-1,3-Dichloropropene	50	0	48.3	ug/L	97		2		77	115	20
1,1,2-Trichloroethane	50	0	47.2	ug/L	94		4		87	119	20
2-Hexanone	250	0	240	ug/L	96		8		75	131	20
Dibromochloromethane	50	0	47.4	ug/L	95		4		88	118	20
1,2-Dibromoethane	50	0	46.9	ug/L	94		6		85	119	20
Tetrachloroethene	50	87.7	150	ug/L	125	*	15		65	114	20
Chlorobenzene	50	0	47.5	ug/L	95		3		62	141	20
Ethyl Benzene	50	0	50.3	ug/L	101		1		62	134	20
m/p-Xylenes	100	0	100	ug/L	100		0		83	117	20
o-Xylene	50	0	51.0	ug/L	102		3		81	120	20
Styrene	50	0	46.3	ug/L	93		5		53	143	20
Bromoform	50	0	46.3	ug/L	93		4		83	121	20
Isopropylbenzene	50	0	51.1	ug/L	102		3		76	121	20
1,1,2,2-Tetrachloroethane	50	0	47.4	ug/L	95		2		66	145	20
1,3-Dichlorobenzene	50	0	48.5	ug/L	97		2		84	110	20
1,4-Dichlorobenzene	50	0	47.6	ug/L	95		1		81	111	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M3859

Client: Day Environmental, Inc.

Analytical Method: SW8260-Low **Datafile :** VU044889.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0927WBS01	Dichlorodifluoromethane	20	19.3	ug/L	97			69	116	
	Chloromethane	20	14.8	ug/L	74			65	116	
	Vinyl chloride	20	16.4	ug/L	82			65	117	
	Bromomethane	20	10.3	ug/L	52		*	55	134	
	Chloroethane	20	17.4	ug/L	87			73	112	
	Trichlorofluoromethane	20	19.0	ug/L	95			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			80	112	
	1,1-Dichloroethene	20	18.5	ug/L	93			74	110	
	Acetone	100	110	ug/L	110			60	125	
	Carbon disulfide	20	14.6	ug/L	73			64	112	
	Methyl tert-butyl Ether	20	20.8	ug/L	104			78	114	
	Methyl Acetate	20	18.1	ug/L	91			67	125	
	Methylene Chloride	20	18.1	ug/L	91			72	114	
	trans-1,2-Dichloroethene	20	18.2	ug/L	91			75	108	
	1,1-Dichloroethane	20	19.4	ug/L	97			78	112	
	Cyclohexane	20	17.6	ug/L	88			75	110	
	2-Butanone	100	97.0	ug/L	97			65	122	
	Carbon Tetrachloride	20	18.7	ug/L	94			77	113	
	cis-1,2-Dichloroethene	20	19.2	ug/L	96			77	110	
	Bromochloromethane	20	15.4	ug/L	77			70	124	
	Chloroform	20	19.1	ug/L	96			79	113	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			80	108	
	Methylcyclohexane	20	19.3	ug/L	97			72	115	
	Benzene	20	18.6	ug/L	93			82	109	
	1,2-Dichloroethane	20	19.3	ug/L	97			80	115	
	Trichloroethene	20	17.9	ug/L	90			77	113	
	1,2-Dichloropropane	20	19.1	ug/L	96			83	111	
	Bromodichloromethane	20	19.4	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	19.7	ug/L	99			82	110	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			79	110	
	cis-1,3-Dichloropropene	20	20.2	ug/L	101			82	110	
	1,1,2-Trichloroethane	20	19.9	ug/L	100			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	19.7	ug/L	99			82	110	
	1,2-Dibromoethane	20	19.5	ug/L	98			81	110	
	Tetrachloroethene	20	19.0	ug/L	95			67	123	
	Chlorobenzene	20	20.0	ug/L	100			82	109	
	Ethyl Benzene	20	20.7	ug/L	104			83	109	
	m/p-Xylenes	40	41.7	ug/L	104			82	110	
	o-Xylene	20	21.7	ug/L	109			83	109	
	Styrene	20	20.0	ug/L	100			80	111	
	Bromoform	20	21.1	ug/L	106			79	109	
	Isopropylbenzene	20	20.4	ug/L	102			83	112	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/L	104			76	118	
	1,3-Dichlorobenzene	20	21.0	ug/L	105			82	108	
	1,4-Dichlorobenzene	20	20.5	ug/L	103			82	107	
	1,2-Dichlorobenzene	20	20.4	ug/L	102			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95			68	112	

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1032-FB092021	SDG No.:	M3859
Lab Sample ID:	M3859-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044911.D	1		09/28/21 01:07	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	UQ	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	15.8		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	2.10	J	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	0.31	J	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1032-FB092021	SDG No.:	M3859
Lab Sample ID:	M3859-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044911.D	1		09/28/21 01:07	VU092721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.36	J	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		78 - 117	89%	SPK: 50
1868-53-7	Dibromofluoromethane	44.8		75 - 124	90%	SPK: 50
2037-26-5	Toluene-d8	48.1		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	5.379			
540-36-3	1,4-Difluorobenzene	345000	6.253			
3114-55-4	Chlorobenzene-d5	309000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	143000	11.816			
TENTATIVE IDENTIFIED COMPOUNDS						
000104-76-7	1-Hexanol, 2-ethyl-	5.70	J		12.1	ug/L
91-20-3	Naphthalene	1.20	J		14.1	ug/L

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Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1033-TB092021	SDG No.:	M3859
Lab Sample ID:	M3859-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044864.D	1		09/26/21 02:43	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	1.80	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VU044820.D RRF005 = VU044821.D RRF020 = VU044822.D
RRF050 = VU044823.D RRF100 = VU044824.D RRF150 = VU044825.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.586	0.542	0.630	0.614	0.625	0.597	0.599	5.5
Chloromethane	1.150	0.892	0.899	0.860	0.855	0.797	0.909	13.6
Vinyl Chloride	0.853	0.849	0.902	0.840	0.846	0.799	0.848	3.9
Bromomethane		0.543	0.512	0.413	0.402	0.382	0.450	16
Chloroethane	0.999	0.581	0.590	0.556	0.570		0.659	28.9
Trichlorofluoromethane	1.071	1.076	1.088	1.036	1.027	0.952	1.042	4.8
1,1,2-Trichlorotrifluoroethane	0.603	0.621	0.635	0.611	0.608	0.572	0.608	3.4
1,1-Dichloroethene	0.631	0.587	0.602	0.598	0.615	0.579	0.602	3.2
Acetone	0.586	0.504	0.481	0.475	0.474	0.434	0.492	10.4
Carbon Disulfide	1.793	1.658	1.690	1.671	1.724	1.626	1.694	3.5
Methyl tert-butyl Ether	2.130	2.126	2.278	2.317	2.387	2.250	2.248	4.6
Methyl Acetate	1.717	1.706	1.669	1.628	1.634	1.513	1.644	4.5
Methylene Chloride	1.015	0.804	0.770	0.750	0.747	0.696	0.797	14.1
trans-1,2-Dichloroethene	0.625	0.641	0.664	0.653	0.662	0.624	0.645	2.7
1,1-Dichloroethane	1.278	1.353	1.391	1.358	1.376	1.286	1.340	3.5
Cyclohexane		1.394	1.261	1.212	1.231	1.167	1.253	6.9
2-Butanone	0.725	0.719	0.763	0.767	0.790	0.718	0.747	4.1
Carbon Tetrachloride	0.421	0.471	0.485	0.493	0.505	0.470	0.474	6.2
cis-1,2-Dichloroethene	0.844	0.756	0.782	0.778	0.798	0.746	0.784	4.4
Bromochloromethane	0.689	0.660	0.616	0.639	0.621	0.596	0.637	5.2
Chloroform	1.390	1.400	1.379	1.324	1.344	1.248	1.347	4.2
1,1,1-Trichloroethane	1.085	1.080	1.092	1.090	1.130	1.055	1.089	2.2
Methylcyclohexane	0.514	0.563	0.599	0.634	0.661	0.629	0.600	9
Benzene	1.650	1.617	1.626	1.627	1.650	1.534	1.617	2.7
1,2-Dichloroethane	0.649	0.657	0.651	0.632	0.637	0.592	0.636	3.7
Trichloroethene	0.458	0.372	0.379	0.378	0.386	0.359	0.389	9
1,2-Dichloropropane	0.418	0.423	0.455	0.457	0.454	0.420	0.438	4.4
Bromodichloromethane	0.572	0.546	0.569	0.584	0.598	0.562	0.572	3.1
4-Methyl-2-Pentanone	0.675	0.731	0.778	0.802	0.856	0.816	0.776	8.3
Toluene	0.871	0.952	1.002	0.997	1.020	0.959	0.967	5.6
t-1,3-Dichloropropene	0.494	0.539	0.588	0.628	0.675	0.652	0.596	11.6
cis-1,3-Dichloropropene	0.563	0.598	0.642	0.675	0.716	0.679	0.646	8.8
1,1,2-Trichloroethane	0.394	0.426	0.419	0.416	0.425	0.401	0.413	3.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/27/2021 12:20

Lab File ID: VU044885.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.599	0.677		13.02	20
Chloromethane	0.909	0.806	0.1	-11.33	20
Vinyl Chloride	0.848	0.860		1.41	20
Bromomethane	0.450	0.380		-15.56	20
Chloroethane	0.659	0.575		-12.75	20
Trichlorofluoromethane	1.042	1.116		7.1	20
1,1,2-Trichlorotrifluoroethane	0.608	0.642		5.59	20
1,1-Dichloroethene	0.602	0.641		6.48	20
Acetone	0.492	0.733		48.98	20
Carbon Disulfide	1.694	1.862		9.92	20
Methyl tert-butyl Ether	2.248	2.440		8.54	20
Methyl Acetate	1.644	1.467		-10.77	20
Methylene Chloride	0.797	0.755		-5.27	20
trans-1,2-Dichloroethene	0.645	0.686		6.36	20
1,1-Dichloroethane	1.340	1.371	0.1	2.31	20
Cyclohexane	1.253	1.276		1.84	20
2-Butanone	0.747	0.838		12.18	20
Carbon Tetrachloride	0.474	0.505		6.54	20
cis-1,2-Dichloroethene	0.784	0.812		3.57	20
Bromochloromethane	0.637	0.503		-21.04	20
Chloroform	1.347	1.350		0.22	20
1,1,1-Trichloroethane	1.089	1.122		3.03	20
Methylcyclohexane	0.600	0.732		22	20
Benzene	1.617	1.703		5.32	20
1,2-Dichloroethane	0.636	0.672		5.66	20
Trichloroethene	0.389	0.403		3.6	20
1,2-Dichloropropane	0.438	0.450		2.74	20
Bromodichloromethane	0.572	0.597		4.37	20
4-Methyl-2-Pentanone	0.776	0.781		0.64	20
Toluene	0.967	1.068		10.44	20
t-1,3-Dichloropropene	0.596	0.698		17.11	20
cis-1,3-Dichloropropene	0.646	0.744		15.17	20
1,1,2-Trichloroethane	0.413	0.430		4.12	20
2-Hexanone	0.623	0.694		11.4	20
Dibromochloromethane	0.396	0.426		7.58	20
1,2-Dibromoethane	0.434	0.467		7.6	20
Tetrachloroethene	0.339	0.365		7.67	20
Chlorobenzene	1.038	1.132	0.3	9.06	20
Ethyl Benzene	1.853	2.145		15.76	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE01

Lab Code: CHEM Case No.: M3859 SAS No.: M3859 SDG No.: M3859

Instrument ID: MSVOA_U Calibration Date/Time: 09/27/2021 22:00

Lab File ID: VU044905.D Init. Calib. Date(s): 09/24/2021 09/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 19:19 21:39

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.709	0.840		18.48	20
o-Xylene	0.685	0.843		23.07	20
Styrene	1.150	1.432		24.52	20
Bromoform	0.306	0.367	0.1	19.93	20
Isopropylbenzene	3.549	4.080		14.96	20
1,1,2,2-Tetrachloroethane	1.617	1.795	0.3	11.01	20
1,3-Dichlorobenzene	1.645	1.879		14.23	20
1,4-Dichlorobenzene	1.701	1.924		13.11	20
1,2-Dichlorobenzene	1.744	1.956		12.16	20
1,2-Dibromo-3-Chloropropane	0.392	0.440		12.24	20
1,2,4-Trichlorobenzene	0.963	1.121		16.41	20
1,2,3-Trichlorobenzene	0.980	1.130		15.31	20
1,2-Dichloroethane-d4	0.873	0.889		1.83	20
Dibromofluoromethane	0.343	0.349		1.75	20
Toluene-d8	1.295	1.321		2.01	20
4-Bromofluorobenzene	0.481	0.543		12.89	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MS	SDG No.:	M3859
Lab Sample ID:	M3859-08MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044853.D	1		09/25/21 21:38	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	49.1		0.24	1.00	ug/L
591-78-6	2-Hexanone	260		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	49.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	49.6		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	160	E	0.17	1.00	ug/L
108-90-7	Chlorobenzene	48.8		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	51.0		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.32	2.00	ug/L
95-47-6	o-Xylene	52.3		0.19	1.00	ug/L
100-42-5	Styrene	48.5		0.16	1.00	ug/L
75-25-2	Bromoform	48.0		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	49.4		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	48.4		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	49.4		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	48.2		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	48.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	51.6		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	50.2		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.7		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	50.2		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		83 - 123	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	5.379			
540-36-3	1,4-Difluorobenzene	255000	6.253			
3114-55-4	Chlorobenzene-d5	249000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	131000	11.816			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Environmental, Inc.	Date Collected:	09/20/21
Project:	Andrew St. RI	Date Received:	09/21/21
Client Sample ID:	1028-MW-02MSD	SDG No.:	M3859
Lab Sample ID:	M3859-09MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU044854.D	1		09/25/21 22:02	VU092521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	47.2		0.24	1.00	ug/L
591-78-6	2-Hexanone	240		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	47.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	46.9		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	150	E	0.17	1.00	ug/L
108-90-7	Chlorobenzene	47.5		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	50.3		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.32	2.00	ug/L
95-47-6	o-Xylene	51.0		0.19	1.00	ug/L
100-42-5	Styrene	46.3		0.16	1.00	ug/L
75-25-2	Bromoform	46.3		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	51.1		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	47.4		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	48.5		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	47.6		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	47.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	53.0		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.8		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	53.4		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		78 - 117	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	49.5		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		83 - 123	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	5.378			
540-36-3	1,4-Difluorobenzene	271000	6.253			
3114-55-4	Chlorobenzene-d5	256000	9.42			
3855-82-1	1,4-Dichlorobenzene-d4	127000	11.815			

Attachment B

Site-Wide Inspection Form

Site-Wide Inspection Form
300, 304-308 and 320 Andrews Street and 25 Evans Street
Rochester, New York
NYSDEC ERP Project #E828144

Date of Inspection Site Visit: September 1, 2021

Personnel Performing Inspection Site Visit: J. Danzinger

Affiliation of Personnel: Day Environmental, Inc.

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1. Check integrity of impermeable portions (e.g., concrete) of cover system, including whether any sloughing, cracks, settlement, damage, etc.

Discuss observations and any corrective actions: Concrete slabs in good condition.

2. Check integrity of earthen portions (e.g., crusher run #2 stone) cover system, including whether any erosion, settlement, damage, etc.

Discuss observations and any corrective actions Crusher Run #2 stone cover material in good condition.
No erosion, settlement or damage observed.

3. Check integrity of monitoring wells, including whether any damage, etc.

Discuss observations and any corrective actions Monitoring wells observed in good condition.

4. Provide any other notes or observations of interest

None

Photo Log
300, 304-308 & 320 Andrews St and 25 Evans St
Rochester, New York
NYSDEC Site #E828144

View of Site showing monitoring wells and injection wells - looking northwest (10-15-2021).

View of Site - looking southwest (10-15-2021).

View of Site showing monitoring well - looking west (10-15-2021).

Attachment C

Institutional and Engineering Controls Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **E828144**

Site Name Andrews Street Site

Site Address: 300, 304-308, 320 Andrews St., 25 Evans St. Zip Code: 14604
City/Town: Rochester
County: Monroe
Site Acreage: 1.524

Reporting Period: September ~~29~~ 01, 2020 to December 01, 2021

	YES	NO
1. Is the information above correct?	☐	●
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	●
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	●
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	●
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	●

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	●	☐
7. Are all ICs in place and functioning as designed?	●	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. E828144 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
106.72-01-84	City of Rochester	Landuse Restriction Soil Management Plan Monitoring Plan Site Management Plan Ground Water Use Restriction IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property that:
- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH; and
- requires compliance with the Department approved Site Management Plan.

106.72-01-85	City of Rochester	Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan Landuse Restriction IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property that:
- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH; and
- requires compliance with the Department approved Site Management Plan.

106.72-01-86	City of Rochester	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan Monitoring Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property that:
- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH; and
- requires compliance with the Department approved Site Management Plan.

106.72-01-87	City of Rochester	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property that:

- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH; and
- requires compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
106.72-01-84	Cover System

A site cover currently exists and will be maintained to allow for restricted residential use of the site. Any site redevelopment will maintain the existing site cover, which consists either of the structures such as buildings, pavement, sidewalks or soil where the upper one foot of exposed surface soil meets the applicable soil cleanup objectives (SCOs) for restricted residential use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6NYCRR part 375-6.7(d).

106.72-01-85

Cover System

A site cover currently exists and will be maintained to allow for restricted residential use of the site. Any site redevelopment will maintain the existing site cover, which consists either of the structures such as buildings, pavement, sidewalks or soil where the upper one foot of exposed surface soil meets the applicable soil cleanup objectives (SCOs) for restricted residential use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6NYCRR part 375-6.7(d).

106.72-01-86

Cover System

A site cover currently exists and will be maintained to allow for restricted residential use of the site. Any site redevelopment will maintain the existing site cover, which consists either of the structures such as buildings, pavement, sidewalks or soil where the upper one foot of exposed surface soil meets the applicable soil cleanup objectives (SCOs) for restricted residential use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6NYCRR part 375-6.7(d).

106.72-01-87

Cover System

A site cover currently exists and will be maintained to allow for restricted residential use of the site. Any site redevelopment will maintain the existing site cover, which consists either of the structures such as buildings, pavement, sidewalks or soil where the upper one foot of exposed surface soil meets the applicable soil cleanup objectives (SCOs) for restricted residential use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6NYCRR part 375-6.7(d).

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
●	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
●	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. E828144

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Joseph J. Biondolillo (print name) at 30 Church Street, Rochester, New York 14614 (print business address),

am certifying as Owner Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Joseph J. Biondolillo
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

12-17-2021
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Nathan E. Simon at 1563 Lyell Avenue, Rochester, New York 14606,
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

12/14/2021

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date